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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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Avis

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

1.2. Services Courrier recommandé^{MC} et Xpresspost^{MC} de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé^{MC} et Xpresspost^{MC} de Postes Canada sont des établissements ou des

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

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

2. Electronic Correspondence

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

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

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

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

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

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

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^{MC} et Xpresspost^{MC} de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

2. Correspondance électronique

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

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

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

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

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

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open for business.

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

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Patents

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

2.2 Online

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

Patents

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

Trademarks

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

Brevets

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

2.2 En ligne

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

Brevets

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

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

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

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

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

Marques de commerce

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

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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

Notices

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

8. Intellectual property acts, rules and regulations

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

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

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

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

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

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

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

Marques de commerce

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

Avis

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of June 14, 2022 contains applications open to public inspection from May 29, 2022 to June 4, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 14 juin 2022 contient les demandes disponibles au public pour consultation pour la période du 29 mai 2022 au 4 juin 2022.

16. Erratum

All information respecting patent application number 3,122,959 referred to under the section *PCT Applications Entering the National Phase* contained in the October 05, 2021 issue of the *Canadian Patent Office Record* (Vol. 149 No. 40), was erroneously published and should be disregarded.

16. Erratum

Toutes les informations relatives à la demande de brevet 3, 122, 959 dans la liste *des Demandes PCT entrant en phase nationale* contenues dans le numéro du 5 octobre 2021 de la *Gazette du Bureau des brevets* (Vol. 149 n° 40), ont été publiées par erreur et doivent être ignorées.

Canadian Patents Issued

June 14, 2022

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[11] **2,674,521**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01) G01N 33/577 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHOD AND TOOL FOR PREDICTING CARDIOVASCULAR DISEASES**

[54] **METHODE ET OUTIL DE PREDICTION DE MALADIES CARDIOVASCULAIRES**

[72] EUGEN-OLSEN, JESPER, DK

[72] HAUGAARD, STEEN B., DK

[72] ANDERSEN, OVE, DK

[73] HVIDOVRE HOSPITAL, DK

[85] 2009-06-22

[86] 2007-12-21 (PCT/EP2007/064497)

[87] (WO2008/077958)

[30] DK (PA 2006 01709) 2006-12-22

[30] US (60/876,838) 2006-12-22

[30] US (60/947,074) 2007-06-29

[30] DK (PA 2007 00956) 2007-06-29

[11] **2,710,822**
[13] C

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 17/02 (2006.01)**

[25] EN

[54] **USE OF HISTATIN DERIVED PEPTIDES FOR PROMOTING WOUND HEALING**

[54] **UTILISATION DE PEPTIDES DERIVES D'HISTATINE POUR FAVORISER LA CICATRISATION DES PLAIES**

[72] BOLSCHER, JOHANNES GERHARDUS MARIA, NL

[72] VAN NIEUW AMERONGEN, ARIE, NL

[72] VEERMAN, ENGELMUNDUS CORNELIS IGNATUS, NL

[72] OUDHOFF, MENNO JOHANNES, NL

[72] NAZMI, KAMRAN, NL

[72] VAN DEN KEIJBUS, PETRONELLA ADRIANA MARIA, NL

[72] VAN'T HOF, WILLEM, NL

[73] RAPID PATHOGEN SCREENING, INC., US

[85] 2010-06-25

[86] 2009-01-07 (PCT/EP2009/000241)

[87] (WO2009/087117)

[30] EP (08075012.8) 2008-01-07

[30] NL (2002152) 2008-10-30

[11] **2,718,495**
[13] C

[51] **Int.Cl. C12N 15/85 (2006.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01) C07K 14/17 (2006.01) C07K 14/47 (2006.01) C07K 14/52 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **RECOMBINANT PRODUCTION OF AUTHENTIC HUMAN PROTEINS USING HUMAN CELL EXPRESSION SYSTEMS**

[54] **PRODUCTION RECOMBINANTE DE PROTEINES HUMAINES AUTHENTIQUES UTILISANT DES SYSTEMES D'EXPRESSION DE CELLULES HUMAINES**

[72] CHEN, RIDONG, US

[72] JEONG, SOON SEOG, US

[72] FENG, HUI, US

[73] HUMANZYME LIMITED, KY

[85] 2010-09-14

[86] 2009-03-12 (PCT/US2009/036975)

[87] (WO2009/114702)

[30] US (61/036,667) 2008-03-14

[30] US (61/147,627) 2009-01-27

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[11] **2,743,473**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6886 (2018.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS OF MOLECULAR PROFILING FOR DISEASE DIAGNOSTICS**

[54] **PROCEDES ET COMPOSITIONS DE PROFILAGE MOLECULAIRE POUR LE DIAGNOSTIC DE MALADIES**

[72] KENNEDY, GIULIA C., US

[72] ANDERSON, BONNIE H., US

[72] CHUDOVA, DARYA I., US

[72] WANG, ERIC T., US

[72] WANG, HUI, US

[72] PAGAN, MORAIMA, US

[72] RABBEE, NUSRAT, US

[72] WILDE, JONATHAN I., US

[73] VERACYTE, INC., US

[85] 2011-05-11

[86] 2009-11-17 (PCT/US2009/006162)

[87] (WO2010/056374)

[30] US (61/199,585) 2008-11-17

[30] US (61/270,812) 2009-07-13

[11] **2,751,888**
[13] C

[51] **Int.Cl. G01N 33/50 (2006.01) C40B 30/04 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **MOLECULAR PROFILING OF TUMORS**

[54] **PROFIL MOLECULAIRE DE TUMEURS**

[72] VON HOFF, DANIEL D., US

[72] LOESCH, DAVID M., US

[72] ALARCON, ARLET, US

[72] PENNY, ROBERT J., US

[72] WRIGHT, ALAN, US

[72] MCGINNIS, MATTHEW J., US

[72] BENDER, RYAN P., US

[72] PAWLOWSKI, TRACI, US

[72] KUSLICH, CHRISTINE, US

[73] CARIS MPI, INC., US

[85] 2011-08-09

[86] 2010-02-11 (PCT/US2010/000407)

[87] (WO2010/093465)

[30] US (61/151,758) 2009-02-11

[30] US (61/170,565) 2009-04-17

[30] US (61/229,686) 2009-07-29

[11] **2,758,581**
[13] C

[51] **Int.Cl. C07K 14/575 (2006.01) A61K 38/00 (2006.01) A61K 38/17 (2006.01) A61P 9/00 (2006.01) A61P 19/00 (2006.01) C12N 15/00 (2006.01) C12P 21/02 (2006.01) G01N 33/50 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **VARIANTS OF C-TYPE NATRIURETIC PEPTIDE**

[54] **VARIANTS DU PEPTIDE NATRIURETIQUE DE TYPE C**

[72] WENDT, DANIEL J., US

[72] AOYAGI-SCHARBER, MIKA, US

[72] LONG, SHINONG, US

[72] VELLARD, MICHEL CLAUDE, US

[72] CASTILLO, SIANNA, US

[72] OKHAMAFE, AUGUSTUS O., US

[72] PRICE, CHRISTOPHER P., US

[73] BIOMARIN PHARMACEUTICAL INC., US

[85] 2011-10-11

[86] 2010-05-20 (PCT/US2010/035586)

[87] (WO2010/135541)

[30] US (61/180,112) 2009-05-20

[30] US (61/254,563) 2009-10-23

[11] **2,761,278**
[13] C

[51] **Int.Cl. A61N 1/39 (2006.01) A61N 1/04 (2006.01) A61N 1/05 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS TO PLACE ONE OR MORE LEADS IN TISSUE TO ELECTRICALLY STIMULATE NERVES OF PASSAGE TO TREAT PAIN**

[54] **SYSTEMES ET PROCEDES POUR PLACER UNE OU PLUSIEURS DERIVATIONS DANS UN TISSU POUR STIMULER ELECTRIQUEMENT DES NERFS DE PASSAGE POUR TRAITER LA DOULEUR**

[72] BOGGS, JOSEPH W., II, US

[73] SPR THERAPEUTICS, INC., US

[85] 2011-11-07

[86] 2009-12-07 (PCT/US2009/006414)

[87] (WO2010/065146)

[30] US (61/201,030) 2008-12-05

[11] **2,785,665**
[13] C

[51] **Int.Cl. A23J 1/14 (2006.01) A23J 3/16 (2006.01)**

[25] EN

[54] **PH ADJUSTED SOY PROTEIN ISOLATE AND USES**

[54] **ISOLAT DE PROTEINE DE SOJA A PH AJUSTE ET SES APPLICATIONS**

[72] GREEN, BRENT E., CA

[72] MEDINA, SARAH, CA

[72] SCHWEIZER, MARTIN, CA

[72] SEGALL, KEVIN I., CA

[72] TERGESEN, JOHANN, CA

[72] SAMPSON, RUSS, CA

[72] ROSSET, ROLAND, CA

[72] HAYDEN, CURTIS D., CA

[72] CATIPON, EDWIN, CA

[73] BURCON NUTRASCIENCE (MB) CORP., CA

[85] 2012-06-22

[86] 2010-12-22 (PCT/CA2010/002061)

[87] (WO2011/075850)

[30] US (61/282,141) 2009-12-22

[11] **2,789,771**
[13] C

[51] **Int.Cl. C01D 15/08 (2006.01) C01B 11/18 (2006.01) C01B 25/10 (2006.01) C01B 25/30 (2006.01) C01B 25/45 (2006.01) C01B 35/06 (2006.01) C01D 15/02 (2006.01) C01D 15/04 (2006.01) C07F 1/02 (2006.01) C07F 5/02 (2006.01) C25B 1/02 (2006.01)**

[25] EN

[54] **HIGHLY PURE LITHIUM CARBONATE PREPARED USING REVERSE OSMOSIS**

[54] **CARBONATE DE LITHIUM TRES PUR PREPARE AU MOYEN D'OSMOSE INVERSE**

[72] HARRISON, STEPHEN, US

[72] BLANCHET, ROBERT, CA

[73] TERRALITHIUM LLC, US

[85] 2012-08-14

[86] 2011-02-17 (PCT/US2011/025256)

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[13] C

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[25] EN
[54] **INTERVENTIONAL DRUG DELIVERY SYSTEM AND ASSOCIATED METHODS**
[54] **SYSTEME INTERVENTIONNEL D'ADMINISTRATION DE MEDICAMENT ET PROCEDES ASSOCIES**
[72] DESIMONE, JOSEPH, US
[72] NAPIER, MARY, US
[72] PILLAI, JONATHAN, US
[72] BYRNE, JAMES, US
[72] ROUSH, LUKAS MILLER, US
[72] YEH, JEN JEN, US
[72] PARROTT, MATT, US
[73] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2012-08-17
[86] 2010-02-25 (PCT/US2010/025416)
[87] (WO2010/099321)
[30] US (61/155,880) 2009-02-26

[11] **2,790,483**
[13] C

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[25] EN
[54] **PHOSPHORAMIDITES FOR SYNTHETIC RNA IN THE REVERSE DIRECTION**
[54] **PHOSPHORAMIDITES POUR ARN SYNTHETIQUE EN SENS INVERSE**
[72] SRIVASTAVA, SURESH C., US
[72] SRIVASTAVA, NAVEEN P., US
[73] CHEMGENES CORPORATION, US
[85] 2012-08-16
[86] 2011-02-18 (PCT/US2011/025488)
[87] (WO2011/103468)
[30] US (12/708,827) 2010-02-19

[11] **2,793,465**
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[25] EN
[54] **TFPI INHIBITORS AND METHODS OF USE**
[54] **INHIBITEURS DE TFPI ET PROCEDES D'UTILISATION ASSOCIES**
[72] DOCKAL, MICHAEL, AT
[72] HARTMANN, RUDOLF, AT
[72] FRIES, MARKUS, AT
[72] SCHEIFLINGER, FRIEDRICH, AT
[72] EHRLICH, HARTMUT, AT
[72] REINEKE, ULRICH, DE
[72] OSTERKAMP, FRANK, DE
[72] POLAKOWSKI, THOMAS, DE
[73] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2012-09-17
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[87] (WO2011/115712)
[30] US (61/315,758) 2010-03-19

[11] **2,796,158**
[13] C

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[25] EN
[54] **PROCESS FOR PRODUCING PHOSPHINOTHRICIN EMPLOYING NITRILASES**
[54] **PROCEDE DE PRODUCTION DE PHOSPHINOTHRICINE UTILISANT DES NITRILASES**
[72] ALBIZATI, KIM F., US
[72] KAMBOURAKIS, SPIROS, US
[72] GRUBBS, ALAN, US
[72] BORER, BENNETT C., US
[73] STRATEGIC ENZYME APPLICATIONS, INC., US
[85] 2012-10-11
[86] 2010-04-14 (PCT/US2010/031007)
[87] (WO2011/129820)

[11] **2,808,679**
[13] C

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[25] EN
[54] **NOVEL PHYTOCHEMICALS FROM EXTRACTS OF MAPLE SYRUPS AND MAPLE TREES AND USES THEREOF**
[54] **NOUVEAUX AGENTS PHYTOCHIMIQUES ISSUS D'EXTRAITS DE SIROP D'ERABLE ET D'ERABLE ET LEURS UTILISATIONS**
[72] SEERAM, NAVINDRA P., US
[72] LI, LIYA, US
[72] BELAND, GENEVIEVE, CA
[72] BARBEAU, JULIE, CA
[73] FEDERATION DES PRODUCTEURS ACERICOLES DU QUEBEC, CA
[73] UNIVERSITY OF RHODE ISLAND RESEARCH FOUNDATION, US
[85] 2013-02-19
[86] 2011-08-19 (PCT/CA2011/000943)
[87] (WO2012/021981)
[30] US (61/375,441) 2010-08-20
[30] US (61/405,819) 2010-10-22
[30] US (61/405,812) 2010-10-22
[30] US (61/446,678) 2011-02-25
[30] US (61/468,790) 2011-03-29
[30] US (61/493,532) 2011-06-06

[11] **2,819,932**
[13] C

- [51] **Int.Cl. E21B 7/24 (2006.01) E21B 17/07 (2006.01) E21B 28/00 (2006.01)**
[25] EN
[54] **RESONANCE ENHANCED ROTARY DRILLING MODULE**
[54] **MODULE DE FORAGE ROTATIF A RESONANCE AMELIOREE**
[72] WIERCIGROCH, MARIAN, GB
[73] ITI SCOTLAND LIMITED, GB
[85] 2013-06-04
[86] 2011-12-01 (PCT/EP2011/071550)
[87] (WO2012/076401)
[30] GB (1020660.5) 2010-12-07
[30] GB (1102558.2) 2011-02-14

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[11] **2,820,390**
[13] C

[51] **Int.Cl. E21B 7/24 (2006.01) E21B 17/07 (2006.01) F16F 1/32 (2006.01)**
[25] EN
[54] **VIBRATION TRANSMISSION AND ISOLATION**
[54] **TRANSMISSION DE VIBRATIONS ET ISOLATION CONTRE CELLES-CI**
[72] WIERCIGROCH, MARIAN, GB
[73] ITI SCOTLAND LIMITED, GB
[85] 2013-06-05
[86] 2011-12-07 (PCT/EP2011/072121)
[87] (WO2012/076617)
[30] GB (1020660.5) 2010-12-07
[30] GB (1102558.2) 2011-02-14
[30] GB (1104874.1) 2011-03-23

[11] **2,821,804**
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[54] **PROCEDE DE LOTERIE ET SYSTEME POUR DES TERMINAUX DE POINTS DE VENTE**
[72] SCHROTTER, FLORIAN, AT
[72] KAIBLINGER, HARALD, AT
[73] NOVOMATIC AG, AT
[85] 2013-06-14
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[11] **2,823,729**
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[54] **DEVICES, SYSTEMS AND METHODS FOR EVALUATION OF HEMOSTASIS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR L'EVALUATION D'UNE HEMOSTASE**
[72] VIOLA, FRANCESCO, US
[72] WALKER, WILLIAM H., US
[72] BROWNE, GREGORY V., CA
[72] MAGYAR, ROBERT S., CA
[72] HANSEN, BJARNE, CA
[72] DENNY, CHRISTOPHER G. (DECEASED), CA
[73] HEMOSONICS, LLC, US
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[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING DEPRESSION**
[54] **COMPOSITIONS ET PROCEDES POUR TRAITER LA DEPRESSION**
[72] VUCKOVIC, ALEXANDER, US
[73] GENTELON, INC., US
[85] 2013-07-23
[86] 2011-02-11 (PCT/US2011/024530)
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[30] US (61/303,837) 2010-02-12

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[25] FR
[54] **ELECTRIC BATTERY CHARGING INSTALLATION AND METHOD**
[54] **INSTALLATION ET PROCEDE DE CHARGE POUR BATTERIE ELECTRIQUE**
[72] STEMPIN, ERIC, FR
[73] EVTRONIC, FR
[85] 2014-01-20
[86] 2012-07-20 (PCT/EP2012/064314)
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[30] FR (1102414) 2011-07-29

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[54] **SYSTEME DE TEST DE Puits DE PETROLE ET DE GAZ NET**
[72] HENRY, MANUS P., GB
[72] CASIMIRO, RICHARD P., US
[73] INVENSYS SYSTEMS, INC., US
[85] 2014-03-18
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[25] EN
[54] **SENSOR SYSTEM AND METHOD FOR DETERMINING PAPER SHEET QUALITY PARAMETERS**
[54] **SYSTEME DETECTEUR ET PROCEDE POUR DETERMINER DES PARAMETRES DE QUALITE DE FEUILLE DE PAPIER**
[72] VAN MECHELEN, JACOBUS LODEVICUS MARTINUS, CH
[72] MERBOLD, HANNES, CH
[73] ABB SCHWEIZ AG, CH
[86] (2846816)
[87] (2846816)
[22] 2014-03-14
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[54] **DETERMINING PHYSICAL LENGTHS IN AN EYE USING MULTIPLE REFRACTIVE INDICES**
[54] **DETERMINATION DE LONGUEURS PHYSIQUES DANS UN ŒIL EN UTILISANT PLUSIEURS INDICES DE REFRACTION**
[72] SIMPSON, MICHAEL J., US
[73] ALCON INC., US
[85] 2014-03-27
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[54] **PORTE-OUTIL**
[72] BUKOVITZ, RICHARD K., US
[72] SCOTT, JOHN L., SR., US
[73] THE WOOSTER BRUSH COMPANY, US
[86] (2852435)
[87] (2852435)
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[30] US (61/834,587) 2013-06-13

[11] **2,853,857**
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[25] EN
[54] **COMPOSITIONS AND METHODS FOR PREVENTING AND TREATING ORAL DISEASES**
[54] **COMPOSITIONS ET PROCEDES DE PREVENTION ET DE TRAITEMENT DE MALADIES BUCCALES**
[72] LOVETRI, KAREN, CA
[72] MADHYASTHA, SRINIVASA, CA
[72] YAKANDAWALA, NANDADEVA, CA
[72] GAWANDE, PURUSHOTTAM V., CA
[72] FROEHLICH, GORD, CA
[73] KANE BIOTECH INC., CA
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[25] EN
[54] **A GENETICALLY MODIFIED STRAIN OF S. CEREVISIAE ENGINEERED TO FERMENT XYLOSE AND ARABINOSE**
[54] **SOUCHE GENETIQUEMENT MODIFIEE DE S. CEREVISIAE CONCUE POUR FERMENTER LE XYLOSE ET L'ARABINOSE**
[72] ARGYROS, D. AARON, US
[72] CAIAZZA, NICKY, US
[72] BARRETT, TRISHA F., US
[72] WARNER, ANNE K., US
[73] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU
[85] 2014-05-08
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[13] C

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[25] EN
[54] **METHODS, APPARATUS, AND SYSTEMS FOR MONITORING AND/OR CONTROLLING DYNAMIC ENVIRONMENTS**
[54] **PROCEDES, APPAREIL ET SYSTEMES POUR LA SURVEILLANCE ET/OU LE CONTROLE D'ENVIRONNEMENTS DYNAMIQUES**
[72] FRAZER, MARK J., CA
[72] HOPKINS, T. ERIC, US
[72] SCHAEFFER, TIMOTHY N., US
[73] OPTEON CORPORATION, US
[85] 2014-05-28
[86] 2012-10-05 (PCT/US2012/059097)
[87] (WO2013/052894)
[30] US (61/543,680) 2011-10-05

[11] **2,858,518**
[13] C

[51] **Int.Cl. C09K 8/54 (2006.01) C09K 8/516 (2006.01) C09K 8/524 (2006.01) E21B 33/138 (2006.01) E21B 43/22 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR USING TEMPORARY, SLOWDEGRADING, PARTICULATE AGENTS IN A SUBTERRANEAN FORMATION**
[54] **METHODES ET COMPOSITIONS POUR UTILISER DES AGENTS PARTICULAIRES TEMPORAIRES A DEGRADATION LENTE DANS UNE FORMATION SOUTERRAINE**
[72] BROOKS, AMY LYN, US
[72] VELDMAN, RAYNARD RENE, US
[72] TODD, BRADLEY LEON, US
[73] MAGNABLEND, INC., US
[86] (2858518)
[87] (2858518)
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[30] US (61/863196) 2013-08-07

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[11] **2,859,681**
[13] C

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[25] EN

[54] **METHODS FOR PURIFYING STEVIOL GLYCOSIDES AND USES OF THE SAME**

[54] **PROCEDES DE PURIFICATION DE STEVIOL GLYCOSIDES ET UTILISATIONS DE CEUX-CI**

[72] PRAKASH, INDRA, US

[72] MARKOSYAN, AVETIK, MY

[72] CHATURVEDULA, VENKATA, SAI PRAKASH, US

[72] SAN MIGUEL, RAFAEL, US

[72] PURKAYASTHA, SIDDHARTHA, US

[72] JOHNSON, MARQUITA, US

[72] CAMPBELL, MARY, US

[73] THE COCA-COLA COMPANY, US

[73] PURECIRCLE SDN BHD, MY

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[87] (WO2013/096420)

[30] US (61/577,202) 2011-12-19

[30] US (61/651,099) 2012-05-24

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[54] **SUPERAGONISTS AND ANTAGONISTS OF INTERLEUKIN-2**

[54] **SUPER-AGONISTES ET ANTAGONISTES DE L'INTERLEUKINE-2**

[72] GARCIA, KENAN CHRISTOPHER, US

[72] LEVIN, ARON, US

[72] RING, AARON, US

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

[85] 2014-06-20

[86] 2011-12-22 (PCT/US2011/066911)

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[11] **2,860,647**
[13] C

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[25] EN

[54] **ACTIVE CONTAINING FIBROUS STRUCTURES WITH MULTIPLE REGIONS HAVING DIFFERING DENSITIES**

[54] **STRUCTURES FIBREUSES CONTENANT DES PRINCIPES ACTIFS ET PRESENTANT DE MULTIPLES ZONES DE DENSITE DIFFERENTE**

[72] WEISMAN, PAUL THOMAS, US

[72] DREHER, ANDREAS JOSEF, US

[72] SIVIK, MARK ROBERT, US

[72] HAMAD-EBRAHIMPOUR, ALYSSANDREA HOPE, US

[72] GORDON, GREGORY CHARLES, US

[72] TROKHAN, PAUL DENNIS, US

[73] THE PROCTER & GAMBLE COMPANY, US

[85] 2014-07-04

[86] 2013-01-03 (PCT/US2013/020006)

[87] (WO2013/103626)

[30] US (61/583,011) 2012-01-04

[11] **2,860,958**
[13] C

[51] **Int.Cl. H04W 84/18 (2009.01) H04B 5/00 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR DETERMINING REDUNDANCIES IN NEAR FIELD COMMUNICATION TAG DETECTION**

[54] **DISPOSITIF ET PROCEDE POUR DETERMINER LES REDONDANCES DANS LA DETECTION DES BALISES DE COMMUNICATION EN CHAMP PROCHE**

[72] HAGEDORN, J. DAVID, CA

[73] BLACKBERRY LIMITED, CA

[86] (2860958)

[87] (2860958)

[22] 2014-08-26

[30] US (14/014620) 2013-08-30

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

[51] **Int.Cl. A61B 5/24 (2021.01) A61B 5/0538 (2021.01) A61B 5/287 (2021.01) A61B 5/296 (2021.01) A61B 5/367 (2021.01)**

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[54] **CONTROLLED SYMPATHECTOMY AND MICRO-ABLATION SYSTEMS AND METHODS**

[54] **SYSTEMES ET METHODES DE SYMPATHECTOMIE ET DE MICRO-ABLATION CONTROLEES**

[72] SCHWARTZ, ROBERT, US

[72] TOTH, LANDY, US

[73] AUTONOMIX MEDICAL, INC., US

[85] 2014-07-25

[86] 2013-01-25 (PCT/US2013/023157)

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[30] US (61/613,097) 2012-03-20

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[13] C

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[54] **SYNTHETIC CHLOROPLAST TRANSIT PEPTIDES**

[54] **PEPTIDES SYNTHETIQUES DE TRANSIT DES CHLOROPLASTES**

[72] LIRA, JUSTIN M., US

[72] CICCHILLO, ROBERT M., US

[72] YERKES, CARLA, US

[72] ROBINSON, ANDREW E., US

[73] CORTEVA AGRISCIENCE LLC, US

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[86] 2013-02-01 (PCT/US2013/024488)

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[54] **DYNAMIC DIGITAL FLYER SYSTEM**

[54] **SYSTEME DE PROSPECTUS NUMERIQUE DYNAMIQUE**

[72] CHEUNG, MATTHEW, CA

[72] CHARLEBOIS, ERIK, CA

[72] FRANCIS, JEFF, CA

[72] TAN, WEHUNS, CA

[73] FLIPP CORPORATION, CA

[85] 2014-07-31

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[13] C

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[25] EN

[54] **TIME-STAMPED EMISSIONS DATA COLLECTION FOR PROCESS CONTROL DEVICES**

[54] **COLLECTE DE DONNEES D'EMISSIONS HORODATEES POUR DISPOSITIFS DE COMMANDE DE PROCESSUS**

[72] JENSEN, KURTIS K., US

[72] PANTHER, MITCHELL S., US

[73] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2014-08-18

[86] 2013-02-27 (PCT/US2013/027930)

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[30] US (61/605,131) 2012-02-29

[30] US (13/482,639) 2012-05-29

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[54] **MICROFLUIDIC CARTRIDGE**

[54] **CARTOUCHE MICROFLUIDIQUE**

[72] EGAN, MICHAEL, US

[72] SOUTH, DOUGLAS J., US

[72] SAUL, DAVID, NL

[72] HAYES, JASON, AU

[72] SPRINGER, MATTHEW, AU

[72] SOLOMON, MATTHEW, AU

[72] VAN RUIJVEN, PETER, AU

[72] SCOTT, ORION N., US

[72] BIENVENUE, JOAN, US

[72] KINNON, PAUL, US

[72] LANDERS, JAMES, US

[72] TSUEI, AN-CHI, US

[72] ROOT, BRIAN, US

[73] ZYTEM CORPORATION LIMITED, NZ

[73] LEIDOS INNOVATIONS TECHNOLOGY, INC., US

[85] 2014-08-21

[86] 2013-02-22 (PCT/US2013/027341)

[87] (WO2013/126714)

[30] US (61/601,937) 2012-02-22

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[13] C

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[25] EN

[54] **METHOD AND SYSTEM FOR DETECTION OF MICROBIAL GROWTH IN A SPECIMEN CONTAINER**

[54] **PROCEDE ET SYSTEME DE DETECTION DE LA CROISSANCE MICROBIENNE DANS UN RECIPIENT A SPECIMEN**

[72] ULLERY, MICHAEL, US

[73] BIOMERIEUX, INC., US

[85] 2014-09-09

[86] 2013-03-15 (PCT/US2013/032210)

[87] (WO2013/142347)

[30] US (61/614,037) 2012-03-22

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[13] C

[51] **Int.Cl. C12Q 1/70 (2006.01) G01N 33/52 (2006.01) G01N 33/564 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTION OF ANTI-CYTOMEGALOVIRUS NEUTRALIZING ANTIBODIES**

[54] **PROCEDES DE DETECTION D'ANTICORPS NEUTRALISANTS ANTI-CYTOMEGALOVIRUS**

[72] ANDERSON, DAVID E., US

[72] BOZIC, JASMINKA, CA

[72] ONTSOUKA, BARTHELEMY, CA

[73] VARIATION BIOTECHNOLOGIES INC., CA

[85] 2014-09-18

[86] 2013-03-27 (PCT/IB2013/001021)

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[30] US (61/616,204) 2012-03-27

[11] **2,869,526**
[13] C

[51] **Int.Cl. C08L 75/04 (2006.01) B01J 2/20 (2006.01) C08J 3/12 (2006.01) C08L 95/00 (2006.01)**

[25] FR

[54] **THERMOPLASTIC, ELASTOMERIC BITUMEN AND POLYURETHANE BEADS, ITS PREPARATION PROCESSES AND USES**

[54] **GRANULE DE BITUME ET DE POLYURETHANE ELASTOMERE THERMOPLASTIQUE, SON PROCEDE DE PREPARATION ET SES UTILISATIONS**

[72] SAUTEL, HENRI, FR

[72] BINDSCHEDLER, PIERRE-ETIENNE, FR

[72] PERRIN, REMI, FR

[73] SOPREMA, FR

[86] (2869526)

[87] (2869526)

[22] 2014-11-03

[30] FR (13 60831) 2013-11-05

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[13] C

[51] **Int.Cl. A61K 31/4985 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **METHODS FOR IMPROVING RESISTANCE TO SKELETAL MUSCLE FATIGUE**
[54] **PROCEDES D'AMELIORATION DE LA RESISTANCE A LA FATIGUE DES MUSCLES DU SQUELETTE**
[72] JASPER, JEFFREY R., US
[72] KENNEDY, ADAM, US
[72] HWEE, DARREN, US
[72] MALIK, FADY, US
[73] CYTOKINETICS, INC., US
[85] 2014-10-03
[86] 2013-04-11 (PCT/US2013/036114)
[87] (WO2013/155262)
[30] US (61/623,003) 2012-04-11
[30] US (61/646,842) 2012-05-14
[30] US (61/693,061) 2012-08-24
[30] US (61/735,809) 2012-12-11

[11] **2,870,821**
[13] C

[51] **Int.Cl. C07K 16/12 (2006.01) C07K 16/26 (2006.01) C07K 16/36 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **METHODS AND MEANS FOR THE PRODUCTION OF IG-LIKE MOLECULES**
[54] **PROCEDES ET MOYENS DE PRODUCTION DE MOLECULES DE TYPE IG**
[72] DE KRUIF, CORNELIS ADRIAAN, NL
[72] HENDRIKS, LINDA JOHANNA ALEIDA, NL
[72] LOGTENBERG, TON, NL
[73] MERUS N.V., NL
[85] 2014-10-17
[86] 2013-04-19 (PCT/NL2013/050294)
[87] (WO2013/157954)
[30] US (61/635,935) 2012-04-20

[11] **2,871,068**
[13] C

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[25] EN
[54] **METHODS AND MEANS FOR THE PRODUCTION OF IG-LIKE MOLECULES**
[54] **PROCEDES ET MOYENS DE PRODUCTION DE MOLECULES DE TYPE IG**
[72] DE KRUIF, CORNELIS ADRIAAN, NL
[72] HENDRIKS, LINDA JOHANNA ALEIDA, NL
[72] LOGTENBERG, TON, NL
[73] MERUS N.V., NL
[85] 2014-10-17
[86] 2013-04-19 (PCT/NL2013/050293)
[87] (WO2013/157953)
[30] US (61/635,935) 2012-04-20

[11] **2,871,351**
[13] C

[51] **Int.Cl. C25D 5/02 (2006.01) C25D 7/04 (2006.01)**
[25] EN
[54] **A METHOD OF APPLYING A COATING TO A TUBULAR**
[54] **METHODE D'APPLICATION D'UN REVETEMENT SUR UN TUBULAIRE**
[72] PORODO, DAN, CA
[72] THOMPSON, STEWART, CA
[73] PORODO, DAN, CA
[73] THOMPSON, STEWART, CA
[86] (2871351)
[87] (2871351)
[22] 2014-11-17

[11] **2,871,491**
[13] C

[51] **Int.Cl. H01B 13/22 (2006.01) H01B 3/18 (2006.01) H01B 7/285 (2006.01) H01B 9/02 (2006.01) H01B 11/06 (2006.01) H01B 11/18 (2006.01)**
[25] EN
[54] **CABLE AND METHOD OF MAKING THE SAME**
[54] **CABLE ET SON PROCEDE DE FABRICATION**
[72] VARKEY, JOSEPH, US
[72] ALTINTAS, BURCU UNAL, US
[72] YANG, DONG, US
[72] CHANG, SHENG, US
[72] HUANG, QINGDI, US
[73] SCHLUMBERGER CANADA LIMITED, CA
[86] (2871491)
[87] (2871491)
[22] 2014-11-18
[30] US (61/906,301) 2013-11-19
[30] US (14/546,644) 2014-11-18

[11] **2,872,743**
[13] C

[51] **Int.Cl. A61B 17/068 (2006.01) A61B 17/00 (2006.01) A61B 17/072 (2006.01)**
[25] EN
[54] **SURGICAL STAPLING APPARATUS WITH FIRING LOCKOUT MECHANISM**
[54] **APPAREIL D'AGRAFAGE CHIRURGICAL DOTE D'UN MECANISME DE BLOCAGE DE DECLENCHEMENT**
[72] CAPPOLA, KENNETH M., US
[73] COVIDIEN LP, US
[86] (2872743)
[87] (2872743)
[22] 2014-12-01
[30] US (14/230,516) 2014-03-31

[11] **2,872,968**
[13] C

[51] **Int.Cl. B62D 31/04 (2006.01)**
[25] EN
[54] **PASSENGER SERVICE VEHICLE**
[54] **VEHICULE SERVICE PASSAGERS**
[72] HARLEY, TOM, GB
[72] DONNACHIE, PAUL, GB
[73] ALEXANDER DENNIS LIMITED, GB
[85] 2014-11-07
[86] 2013-05-08 (PCT/GB2013/051196)
[87] (WO2013/167893)
[30] GB (1208014.9) 2012-05-08

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[11] **2,873,241**
[13] C

- [51] **Int.Cl. A61K 31/198 (2006.01) A61K 9/20 (2006.01) A61K 9/46 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AUTISM AND AUTISM SPECTRUM DISORDER**
[54] **COMPOSITIONS ET PROCÉDES POUR TRAITER L'AUTISME ET LE TROUBLE DU SPECTRE AUTISTIQUE**
[72] TIROUVANZIAM, RABINDRA, US
[72] HERZENBERG, LEONORE A., US
[72] HARDAN, ANTONIO, US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2014-11-10
[86] 2013-05-03 (PCT/US2013/039519)
[87] (WO2013/166422)
[30] US (61/642,156) 2012-05-03
[30] US (13/792,361) 2013-03-11

[11] **2,874,170**
[13] C

- [51] **Int.Cl. B65H 57/22 (2006.01) B65H 57/06 (2006.01) B65H 57/26 (2006.01) B66D 1/36 (2006.01) E21B 15/00 (2006.01)**
[25] EN
[54] **LINE STABILIZER**
[54] **STABILISATEUR DE LIGNE**
[72] KRIJNEN, ANTON, NL
[73] NATIONAL OILWELL VARCO, L.P., US
[86] (2874170)
[87] (2874170)
[22] 2014-12-10
[30] US (14/295,835) 2014-06-04

[11] **2,876,177**
[13] C

- [51] **Int.Cl. A61K 31/133 (2006.01) A61K 31/19 (2006.01) A61K 31/197 (2006.01) A61K 31/205 (2006.01) A61K 31/66 (2006.01) A61K 31/695 (2006.01) A61P 9/00 (2006.01)**
[25] EN
[54] **TREATMENT AND PREVENTION OF CARDIOVASCULAR DISEASE AND THROMBOSIS**
[54] **TRAITEMENT ET PREVENTION D'UNE MALADIE CARDIOVASCULAIRE ET DE LA THROMBOSE**
[72] HAZEN, STANLEY L., US
[72] LEVISON, BRUCE, US
[72] WANG, ZENENG, US
[73] THE CLEVELAND CLINIC FOUNDATION, US
[85] 2014-12-09
[86] 2013-06-11 (PCT/US2013/045197)
[87] (WO2013/188417)
[30] US (61/658,208) 2012-06-11

[11] **2,877,655**
[13] C

- [51] **Int.Cl. A47C 31/00 (2006.01) A47C 21/04 (2006.01) A47C 27/08 (2006.01) B65G 7/06 (2006.01) F16C 32/06 (2006.01)**
[25] EN
[54] **FOUR-IN-ONE MATTRESS MANAGEMENT SYSTEM**
[54] **SYSTEME QUADRUPLE DE MANIPULATION D'UN MATELAS**
[72] SCARLESKI, WILLIAM J., US
[73] LEVITATION SCIENCES LLC, US
[85] 2014-12-10
[86] 2013-06-26 (PCT/US2013/047872)
[87] (WO2014/004661)
[30] US (13/534,674) 2012-06-27
[30] US (13/838,408) 2013-03-15

[11] **2,878,880**
[13] C

- [51] **Int.Cl. G01N 33/564 (2006.01) G01N 33/556 (2006.01)**
[25] EN
[54] **METHODS FOR DETECTING AND MEASURING AGGREGATION**
[54] **PROCEDES DE DETECTION ET DE MESURE D'AGREGATION**
[72] PATEL, PAUL, US
[72] ANEKAL, SAMARTHA, US
[72] GIBBONS, IAN, US
[72] HOLMES, ELIZABETH, US
[72] JOSHI, SWAPNA, US
[73] THERANOS IP COMPANY, LLC, US
[85] 2015-01-09
[86] 2013-07-18 (PCT/US2013/051165)
[87] (WO2014/015194)
[30] US (61/673,215) 2012-07-18

[11] **2,881,669**
[13] C

- [51] **Int.Cl. E21B 41/00 (2006.01) E21B 15/00 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **POWER INTEGRATED SYSTEM AND METHOD FOR DRILLING RIG AND OIL/GAS PRODUCTION EQUIPMENT**
[54] **DISPOSITIF INTEGRE D'ENERGIE ET METHODE DE PRODUCTION D'EQUIPEMENT DE FORAGE ET DE PRODUCTION DE PETROLE/GAZ**
[72] HU, LISHUN, CN
[72] XUE, JUNLI, CN
[72] SU, MING, CN
[72] SUN, FENGCHENG, CN
[72] ZHANG, JIE, CN
[72] REN, ZHIGUO, CN
[73] AI ALPINE US BIDCO INC., US
[86] (2881669)
[87] (2881669)
[22] 2015-02-12
[30] CN (201410054131.8) 2014-02-18

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[11] **2,883,162**
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 5/055 (2006.01) A61B 5/06 (2006.01) A61M 25/095 (2006.01)**

[25] EN

[54] **CALIBRATION JIG FOR A FLAT LOCATION PAD**

[54] **SUPPORT D'ETALONNAGE POUR UNE BASE D'EMPLACEMENT PLATE**

[72] GOVARI, ASSAF, IL

[72] GLINER, VADIM, IL

[73] BIOSENSE WEBSTER (ISRAEL) LTD., IL

[86] (2883162)

[87] (2883162)

[22] 2015-02-26

[30] US (14/195,068) 2014-03-03

[11] **2,884,182**
[13] C

[51] **Int.Cl. A61K 47/22 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61K 47/30 (2006.01)**

[25] EN

[54] **STABLE AQUEOUS FORMULATIONS OF ADALIMUMAB**

[54] **FORMULATIONS AQUEUSES STABLES D'ADALIMUMAB**

[72] MANNING, MARK, US

[72] PAYNE, ROBERT W., US

[73] COHERUS BIOSCIENCES, INC., US

[85] 2015-03-05

[86] 2013-09-06 (PCT/US2013/058618)

[87] (WO2014/039903)

[30] US (61/698,138) 2012-09-07

[30] US (61/769,581) 2013-02-26

[30] US (61/770,421) 2013-02-28

[11] **2,884,200**
[13] C

[51] **Int.Cl. F01D 9/02 (2006.01) B33Y 10/00 (2015.01) B22F 3/105 (2006.01)**

[25] EN

[54] **COMPRESSOR VARIABLE VANE ASSEMBLY**

[54] **DISPOSITIF DE VANNE VARIABLE POUR COMPRESSEUR**

[72] MARSHALL, ANDREW R., CA

[72] MENHEERE, DAVID, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2884200)

[87] (2884200)

[22] 2015-03-04

[30] US (14/228,616) 2014-03-28

[11] **2,884,402**
[13] C

[51] **Int.Cl. G06K 19/06 (2006.01) H04W 4/24 (2018.01) G06Q 20/34 (2012.01) G06F 21/32 (2013.01)**

[25] EN

[54] **CREDIT CARD FORM FACTOR SECURE MOBILE COMPUTER AND METHODS**

[54] **ORDINATEUR MOBILE SECURISE AYANT LE FACTEUR DE FORME D'UNE CARTE CREDIT, ET PROCEDES CORRESPONDANTS**

[72] GLASER, LAWRENCE F., US

[73] GLASER, LAWRENCE F., US

[85] 2015-03-05

[86] 2013-09-07 (PCT/US2013/058653)

[87] (WO2014/039932)

[30] US (61/698,529) 2012-09-07

[11] **2,884,418**
[13] C

[51] **Int.Cl. A01G 13/02 (2006.01) A01G 13/10 (2006.01) D01F 6/00 (2006.01) D01F 8/00 (2006.01) D01F 9/00 (2006.01)**

[25] EN

[54] **NETTING, CROP COVER, AND GROUND COVER MATERIALS**

[54] **FILET, COUVERTURE DE PLANTATIONS, ET MATERIAUX DE COUVERTURE DE SOLS**

[72] TOYE, JONATHAN DALLAS, NZ

[72] FOY, SUZANNE ELIZABETH, NZ

[73] EXTENDAY IP LIMITED, NZ

[85] 2015-03-06

[86] 2013-09-12 (PCT/IB2013/058488)

[87] (WO2014/041499)

[30] US (61/700,203) 2012-09-12

[30] NZ (614071) 2013-08-08

[30] NZ (614074) 2013-08-08

[30] NZ (614075) 2013-08-08

[11] **2,884,651**
[13] C

[51] **Int.Cl. B29C 57/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR FORMING FLANGES ON COMPONENTS**

[54] **APPAREIL ET METHODE DE FORMATION DE BRIDES SUR DES COMPOSANTES**

[72] VERMILYEA, MARK ERNEST, US

[72] KRAY, NICHOLAS JOSEPH, US

[72] RADEBACH, MATTHEW ALLEN, US

[72] VALLEE, ALEXANDER JOSEPH, JR., US

[72] CARMICHAEL, CRAIG DOUGLAS, US

[73] GENERAL ELECTRIC COMPANY, US

[86] (2884651)

[87] (2884651)

[22] 2015-03-12

[30] US (14/221,583) 2014-03-21

[11] **2,885,489**
[13] C

[51] **Int.Cl. A01B 49/06 (2006.01) A01C 15/04 (2006.01)**

[25] EN

[54] **AGRICULTURAL DRY CHEMICAL TUBE AND DELIVERY SYSTEM**

[54] **TUBE DE PRODUITS CHIMIQUES SECS POUR L'AGRICULTURE ET MECANISME DE DISTRIBUTION**

[72] BRUNS, DANIEL P., US

[72] HERRMANN, KEN, US

[73] DEERE & COMPANY, US

[86] (2885489)

[87] (2885489)

[22] 2015-03-19

[30] US (62/045,861) 2014-09-09

[30] US (14/617,124) 2015-02-09

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[11] **2,886,105**
[13] C

[51] **Int.Cl. B01J 23/26 (2006.01) B01J 27/08 (2006.01) B01J 31/12 (2006.01) B01J 31/26 (2006.01) C07C 2/22 (2006.01)**

[25] FR

[54] **NEW CATALYTIC COMPOSITION AND PROCESS FOR THE OLIGOMERIZATION OF ETHYLENE INTO 1-HEXENE**

[54] **NOUVELLE COMPOSITION CATALYTIQUE ET PROCEDE POUR L'OLIGOMERISATION DE L'ETHYLENE EN HEXENE-1**

[72] MAGNA, LIONEL, FR

[72] DROCHON, SEBASTIEN, FR

[72] OLIVIER-BOURBIGOU, HELENE, FR

[73] IFP ENERGIES NOUVELLES, FR

[86] (2886105)

[87] (2886105)

[22] 2015-03-23

[30] FR (14 52 517) 2014-03-25

[11] **2,886,378**
[13] C

[51] **Int.Cl. H04W 8/22 (2009.01) E05B 81/78 (2014.01) B60R 25/10 (2013.01) E05B 45/06 (2006.01) H04B 5/00 (2006.01)**

[25] EN

[54] **CLOUD-BASED WIRELESS COMMUNICATION SYSTEM AND METHOD**

[54] **PROCEDE ET SYSTEME DE COMMUNICATION SANS FIL BASEE SUR LE NUAGE**

[72] EBERWINE, TODD, US

[72] NEAFSEY, JEFFREY SCOTT, US

[73] SCHLAGE LOCK COMPANY LLC, US

[85] 2015-03-26

[86] 2013-08-16 (PCT/US2013/055459)

[87] (WO2014/028900)

[30] US (61/684,128) 2012-08-16

[11] **2,886,729**
[13] C

[51] **Int.Cl. B23K 26/24 (2014.01) B23K 26/142 (2014.01)**

[25] EN

[54] **METHOD OF SEAMLESS BONDING AND DEVICE THEREFOR**

[54] **METHODE DE COLLAGE INVISIBLE ET APPAREIL ASSOCIE**

[72] VERRIER, PIERRE, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2886729)

[87] (2886729)

[22] 2015-03-27

[30] US (61/971,606) 2014-03-28

[11] **2,887,383**
[13] C

[51] **Int.Cl. E05B 1/00 (2006.01) A61L 2/18 (2006.01)**

[25] EN

[54] **CLEANING DEVICE FOR DOOR HANDLES AND PUSH PLATES**

[54] **DISPOSITIF DE NETTOYAGE DE POIGNEES DE PORTE ET DE PLAQUES DE PROPRETE DE PORTE**

[72] CUNNINGHAM, BRIAN, IE

[72] MCDONAGH, MAURICE, IE

[73] CUNNINGHAM, BRIAN, IE

[73] MCDONAGH, MAURICE, IE

[85] 2015-04-07

[86] 2013-10-11 (PCT/EP2013/071330)

[87] (WO2014/057110)

[30] IE (S2012/0458) 2012-10-12

[11] **2,888,131**
[13] C

[51] **Int.Cl. B44C 1/16 (2006.01)**

[25] EN

[54] **AN APPARATUS AND METHOD FOR WEEDING A MULTILAYER SHEET COMPRISING A SUPPORT LINER AND AT LEAST ONE ADHESIVE FILM COUPLED WITH THE LINER**

[54] **APPAREIL ET PROCEDE DESTINES L'ECHENILLAGE D'UNE FEUILLE MULTICOUCHE COMPRENANT UN REVETEMENT DE SUPPORT ET AU MOINS UN FILM ADHESIF COUPLE AU REVETEMENT**

[72] POSARELLI, ROBERTO, IT

[72] VEGNI, GIULIANO, IT

[72] STEFANINI, CESARE, IT

[72] CARNASCIALI, FEDERICO, IT

[72] DINELLI, GIORGIO, IT

[72] DI LUPO, ANDREA, IT

[73] ESANASTRI S.R.L., IT

[85] 2015-04-10

[86] 2013-10-23 (PCT/IB2013/059576)

[87] (WO2014/068450)

[30] IT (FI2012A000232) 2012-10-29

[30] IT (FI2012A000233) 2012-10-29

[30] IT (FI2012A000234) 2012-10-29

[11] **2,889,449**
[13] C

[51] **Int.Cl. F16D 1/108 (2006.01) B64C 13/34 (2006.01) B64C 13/38 (2006.01) B64C 13/50 (2006.01) F16D 9/00 (2006.01) F16H 1/10 (2006.01) F16H 1/32 (2006.01) F16H 49/00 (2006.01)**

[25] EN

[54] **HARMONIC DRIVE ASSEMBLY WITH SELECTIVE DISCONNECT AND RECONNECT**

[54] **DISPOSITIF D'ENTRAINEMENT HARMONIQUE A DECONNEXION ET RECONNEXION SELECTIVES**

[72] BALSIGER, DERICK, US

[73] HAMILTON SUNDSTRAND CORPORATION, US

[86] (2889449)

[87] (2889449)

[22] 2015-04-24

[30] US (14/287,928) 2014-05-27

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[11] **2,890,107**
[13] C

[51] **Int.Cl. A61K 8/37 (2006.01) A61K 8/30 (2006.01) A61K 8/34 (2006.01) A61K 8/92 (2006.01) A61Q 5/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR REDUCING THE TIME NEEDED TO DRY WET HAIR**

[54] **COMPOSITION DESTINEE A REDUIRE LE TEMPS NECESSAIRE AU SECHAGE DES CHEVEUX MOUILLES**

[72] LEHMAN, THOMAS A., US

[73] KENRA PROFESSIONAL, LLC, US

[85] 2015-04-30

[86] 2013-11-01 (PCT/US2013/067987)

[87] (WO2014/071141)

[30] US (61/721,241) 2012-11-01

[11] **2,890,448**
[13] C

[51] **Int.Cl. G09B 23/40 (2006.01) G09B 25/06 (2006.01) E21B 47/00 (2012.01)**

[25] EN

[54] **TRIDIMENSIONAL MODELING APPARATUSES, SYSTEM AND KIT FOR PROVIDING A REPRESENTATION OF AN EXPLORATION NETWORK**

[54] **APPAREILS, SYSTEME ET KIT DE MODELISATION TRIDIMENSIONNELLE PERMETTANT DE FOURNIR UNE REPRESENTATION D'UN RESEAU D'EXPLORATION**

[72] TAZEROUT, ABDELHAKIM, CA

[73] TAZEROUT, ABDELHAKIM, CA

[85] 2015-05-04

[86] 2013-11-12 (PCT/CA2013/050861)

[87] (WO2014/071529)

[30] GB (1220363.4) 2012-11-12

[11] **2,890,450**
[13] C

[51] **Int.Cl. C12N 7/00 (2006.01) A61P 31/02 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **NOVEL BACTERIOPHAGES**

[54] **NOUVEAUX BACTERIOPHAGES**

[72] JIA, YING, GB

[73] ARMATA PHARMACEUTICALS, INC., US

[85] 2015-05-06

[86] 2012-11-07 (PCT/GB2012/052770)

[87] (WO2013/068743)

[30] GB (1119167.3) 2011-11-07

[11] **2,891,817**
[13] C

[51] **Int.Cl. B60K 11/02 (2006.01) B60K 1/00 (2006.01) B60P 1/28 (2006.01)**

[25] EN

[54] **DUMP TRUCK OR TRUCK**

[54] **CAMION A BENNE OU CAMION**

[72] HOFFMANN, SEBASTIEN

[72] NICHOLAS, FR

[72] KUGELSTADT, KAI, FR

[72] RICHTHAMMER, BURKHARD, DE

[72] GRANER, KLAUS, DE

[73] LIEBHERR-MINING EQUIPMENT COLMAR SAS, FR

[86] (2891817)

[87] (2891817)

[22] 2015-05-12

[30] DE (10-2014008477.9) 2014-06-05

[11] **2,891,872**
[13] C

[51] **Int.Cl. C10G 67/04 (2006.01)**

[25] FR

[54] **METHOD FOR CONVERTING A HEAVY HYDROCARBON LOAD INTEGRATING SELECTIVE DEASPHALTING BEFORE THE CONVERSION STEP**

[54] **PROCEDE DE CONVERSION D'UNE CHARGE HYDROCARBONEE LOURDE INTEGRANT UN DESASPHALTAGE SELECTIF EN AMONT DE L'ETAPE DE CONVERSION**

[72] MAJCHER, JEROME, FR

[72] MERDRIGNAC, ISABELLE, FR

[72] FEUGNET, FREDERIC, FR

[73] IFP ENERGIES NOUVELLES, FR

[86] (2891872)

[87] (2891872)

[22] 2015-05-19

[30] FR (14 54 576) 2014-05-21

[11] **2,892,042**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61K 51/04 (2006.01) A61P 35/00 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **CXCR7 ANTAGONISTS**

[54] **ANTAGONISTES DE CXCR7**

[72] FAN, JUNFA, US

[72] KRASINSKI, ANTONI, US

[72] LANGE, CHRISTOPHER W., US

[72] LUI, REBECCA M., US

[72] MCMAHON, JEFFREY P., US

[72] POWERS, JAY P., US

[72] ZENG, YIBIN, US

[72] ZHANG, PENGLIE, US

[73] CHEMOCENTRYX, INC., US

[85] 2015-05-20

[86] 2013-11-26 (PCT/US2013/072067)

[87] (WO2014/085490)

[30] US (61/731,463) 2012-11-29

[11] **2,892,356**
[13] C

[51] **Int.Cl. B05B 12/02 (2006.01)**

[25] EN

[54] **SPRAY PATTERN DEMONSTRATION KIT**

[54] **NECESSAIRE DE DEMONSTRATION DE MOTIF DE PULVERISATION**

[72] SPANDL, ERIC P., US

[72] LEDEBUHR, MARK, US

[72] WOLF, RYAN, US

[73] WINFIELD SOLUTIONS, LLC, US

[86] (2892356)

[87] (2892356)

[22] 2015-05-21

[30] US (62/012,801) 2014-06-16

[30] US (14/616,190) 2015-02-06

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[11] **2,893,365**
[13] C

[51] **Int.Cl. A61C 13/00 (2006.01) G06F 30/00 (2020.01) A61C 13/08 (2006.01) A61C 13/34 (2006.01) A61C 19/00 (2006.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING A DENTAL RESTORATION AS WELL AS DENTAL CERAMICS PRODUCTION DEVICE**

[54] **PROCEDE DE FABRICATION D'UNE RESTAURATION DENTAIRE AINSI QUE DISPOSITIF DE PRODUCTION DE PRODUIT CERAMIQUE DENTAIRE**

[72] EBERT, JORG, CH
[72] VOIGT, OLIVER, CH
[72] GRUNENFELDER, ROBERT, LI
[72] SPECHT, TOBIAS, LI
[73] IVOCLAR VIVADENT AG, LI
[86] (2893365)
[87] (2893365)
[22] 2015-06-02
[30] EP (14 171 268.7) 2014-06-05

[11] **2,894,407**
[13] C

[51] **Int.Cl. G09B 21/00 (2006.01) G16H 20/00 (2018.01) G16H 20/70 (2018.01)**

[25] EN

[54] **APPARATUS, SYSTEM, AND METHOD FOR THERAPY BASED SPEECH ENHANCEMENT AND BRAIN RECONFIGURATION**

[54] **APPAREIL, SYSTEME, ET PROCEDE POUR UNE THERAPIE BASEE SUR L'ORTHOPHONIE ET LA RECONFIGURATION CEREBRALE**

[72] CAPIK, JOHN, US
[73] NEURODAR, LLC, US
[85] 2015-06-08
[86] 2012-12-10 (PCT/US2012/068828)
[87] (WO2013/086534)
[30] US (61/568,406) 2011-12-08

[11] **2,894,591**
[13] C

[51] **Int.Cl. C25B 11/052 (2021.01) C02F 1/46 (2006.01) C02F 1/76 (2006.01) C02F 1/78 (2006.01) C25B 1/13 (2006.01) C25B 1/26 (2006.01) C25B 11/02 (2021.01) C01B 7/01 (2006.01) C01B 13/10 (2006.01)**

[25] EN

[54] **DIAMOND COATED ELECTRODES FOR ELECTROCHEMICAL PROCESSING AND APPLICATIONS THEREOF**

[54] **ELECTRODES REVETUES DE DIAMANT DESTINEES AU TRAITEMENT ELECTROCHIMIQUE ET APPLICATIONS CONNEXES**

[72] GOROKHOVSKY, VLADIMIR, US
[72] SULLIVAN, PATRICK, US
[72] BRONDUM, KLAUS, US
[72] JONTE, PATRICK B., US
[73] VAPOR TECHNOLOGIES, INC., US
[86] (2894591)
[87] (2894591)
[22] 2015-06-18
[30] US (62/017,555) 2014-06-26
[30] US (14/736,934) 2015-06-11

[11] **2,895,663**
[13] C

[51] **Int.Cl. B29B 17/00 (2006.01)**

[25] FR

[54] **RECYCLING DEVICE AND METHOD OF COMPOSITE MATERIALS WITH REINFORCEMENTS AND MATRIX USING PULSED POWER**

[54] **DISPOSITIF ET PROCEDE DE RECYCLAGE PAR PUISSANCE PULSEE DE MATERIAUX COMPOSITES A RENFORTS ET MATRICE**

[72] BENTAJ, ABDELAZIZ, FR
[72] DEMARET, GAUTHIER, FR
[72] BENTAJ, MOURAD, FR
[73] CAMILLE COMPAGNIE D'ASSISTANCE MINIERE ET INDUSTRIELLE, FR
[86] (2895663)
[87] (2895663)
[22] 2015-06-23
[30] FR (1456089) 2014-06-27

[11] **2,900,337**
[13] C

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

[25] EN

[54] **RELEASABLE TISSUE THICKNESS COMPENSATOR AND FASTENER CARTRIDGE HAVING THE SAME**

[54] **COMPENSATEUR D'EPaisseur DE TISSU LIBERABLE ET CARTOUCHE D'ORGANE DE FIXATION LE COMPRENANT**

[72] ARONHALT, TAYLOR W., US
[72] VENDELY, MICHAEL J., US
[72] SHELTON, FREDERICK E. IV, US
[72] SCHELLIN, EMILY A., US
[72] REYNOLDS, DONALD L., II, US
[73] ETHICON ENDO-SURGERY, INC., US
[85] 2015-08-05
[86] 2014-02-05 (PCT/US2014/014838)
[87] (WO2014/123981)
[30] US (13/763,042) 2013-02-08

[11] **2,902,265**
[13] C

[51] **Int.Cl. C04B 20/10 (2006.01)**

[25] EN

[54] **RAPIDLY SUSPENDABLE PULVERULENT COMPOSITION**

[54] **COMPOSITION PULVERULENTE POUVANT RAPIDEMENT ETRE MISES EN SUSPENSION**

[72] HOFHEINZ, CHRISTOPH, DE
[72] BICHLER, MANFRED, DE
[72] SCHINABECK, MICHAEL, DE
[72] WIEDEMANN, MARKUS, DE
[72] HEICHELE, THOMAS, DE
[72] STOHR, WERNER, DE
[72] FLAKUS, SILKE, DE
[73] BASF SE, DE
[85] 2015-08-24
[86] 2014-03-24 (PCT/EP2014/055779)
[87] (WO2014/154599)
[30] EP (13161135.2) 2013-03-26

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[11] **2,903,169**
[13] C

[51] **Int.Cl. H04W 12/108 (2021.01) H04W 80/02 (2009.01) H04W 84/00 (2009.01) H04W 12/037 (2021.01) H04W 12/69 (2021.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR AUTHENTICATING A NETWORK ENTITY USING UNLICENSED WIRELESS SPECTRUM**

[54] **METHODE ET APPAREIL SERVANT A AUTHENTIFIER UNE ENTITE RESEAU AU MOYEN D'UN SPECTRE SANS FIL ET SANS LICENCE**

[72] VUTUKURI, ESWAR, GB

[72] ANDERSON, NICHOLAS WILLIAM, GB

[72] BARRETT, STEPHEN JOHN, GB

[73] BLACKBERRY LIMITED, CA

[86] (2903169)

[87] (2903169)

[22] 2015-09-04

[30] US (14/480,058) 2014-09-08

[11] **2,903,630**
[13] C

[51] **Int.Cl. A61F 11/00 (2022.01) A61M 21/02 (2006.01)**

[25] EN

[54] **PERSONALIZED AUDITORY-SOMATOSENSORY STIMULATION TO TREAT TINNITUS**

[54] **STIMULATION AUDITIVE-SOMATOSENSORIELLE PERSONNALISEE POUR TRAITER UN ACOUPHENE**

[72] KOEHLER, SETH, US

[72] MARTEL, DAVID, US

[72] SHORE, SUSAN, US

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

[85] 2015-09-01

[86] 2014-03-17 (PCT/US2014/030765)

[87] (WO2014/145914)

[30] US (61/800,607) 2013-03-15

[30] US (61/803,062) 2013-03-18

[11] **2,903,712**
[13] C

[51] **Int.Cl. C07D 265/22 (2006.01) C07C 235/88 (2006.01) C07D 249/08 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF DEFERASIROX**

[54] **PROCEDE POUR LA PREPARATION DE DEFERASIROX**

[72] KUMAR, KOTHAKONDA KIRAN, IN

[72] DAMODAR, REDDY GEARU, IN

[72] PULLELA, VENKATA SRINIVAS, IN

[73] BIOCON LIMITED, IN

[85] 2015-09-02

[86] 2014-03-05 (PCT/IB2014/059456)

[87] (WO2014/136062)

[30] IN (975/CHE/2013) 2013-03-06

[11] **2,904,020**
[13] C

[51] **Int.Cl. G01N 33/53 (2006.01) C12N 15/11 (2006.01) G01N 33/483 (2006.01)**

[25] EN

[54] **IMPROVED METHODS FOR CONDUCTING MULTIPLEXED ASSAYS**

[54] **PROCEDES AMELIORES POUR CONDUIRE DES DOSAGES MULTIPLEXES**

[72] GLEZER, ELI N., US

[72] KUMAR, SUDEEP, US

[72] OBEROI, PANKAJ, US

[72] SIGAL, GEORGE, US

[72] TSIONSKY, MICHAEL, US

[73] MESO SCALE TECHNOLOGIES, LLC., US

[85] 2015-09-03

[86] 2014-03-11 (PCT/US2014/022948)

[87] (WO2014/164594)

[30] US (61/775,860) 2013-03-11

[30] US (61/778,727) 2013-03-13

[11] **2,904,421**
[13] C

[51] **Int.Cl. G01L 13/00 (2006.01)**

[25] EN

[54] **DIRECTIONAL DIFFERENTIAL PRESSURE DETECTOR**

[54] **DETECTEUR DE PRESSION DIFFERENTIELLE DIRECTIONNELLE**

[72] WISEMAN, BRIAN M., US

[73] WISEMAN, BRIAN M., US

[85] 2015-09-04

[86] 2014-03-12 (PCT/US2014/024139)

[87] (WO2014/150755)

[30] US (61/791,703) 2013-03-15

[11] **2,904,514**
[13] C

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01)**

[25] EN

[54] **COMPACT URINARY CATHETERS AND METHODS FOR MAKING THE SAME**

[54] **CATHETERS URINAIRES COMPACTS ET LEURS PROCEDES DE FABRICATION**

[72] MURRAY, MICHAEL G., IE

[72] O'BRIEN, DANIEL, IE

[72] HANNON, DAVID, IE

[72] FOLEY, ADAM J., IE

[72] ALLEN, SCOTT, DK

[73] HOLLISTER INCORPORATED, US

[85] 2015-09-08

[86] 2013-03-14 (PCT/US2013/031643)

[87] (WO2014/142917)

[11] **2,905,956**
[13] C

[51] **Int.Cl. A61L 2/20 (2006.01)**

[25] EN

[54] **APPARATUS AND PROCESS FOR FOCUSED GAS PHASE APPLICATION OF BIOCIDES**

[54] **APPAREIL ET PROCEDE POUR L'APPLICATION DE BIOCIDES FOCALISEE EN PHASE GAZEUSE**

[72] MASON, JOHN Y., US

[73] SABRE INTELLECTUAL PROPERTY HOLDINGS LLC, US

[85] 2015-09-11

[86] 2014-03-13 (PCT/US2014/025884)

[87] (WO2014/151512)

[30] US (13/836,721) 2013-03-15

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[11] **2,908,407**
[13] C

[51] **Int.Cl. C12P 21/00 (2006.01) A61K 39/395 (2006.01) C12P 19/18 (2006.01)**

[25] EN

[54] **QUANTITATIVE CONTROL OF SIALYLATION**

[54] **REGULATION QUANTITATIVE DE LA SIALYLATION**

[72] ENGEL, ALFRED, DE

[72] GREIF, MICHAEL, DE

[72] JUNG, CHRISTINE, DE

[72] MALIK, SEBASTIAN, DE

[72] MUELLER, RAINER, DE

[72] SOBEK, HARALD, DE

[72] SUPPMANN, BERNHARD, DE

[72] THOMANN, MARCO, DE

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

[85] 2015-09-29

[86] 2014-05-16 (PCT/EP2014/060101)

[87] (WO2014/191240)

[30] EP (13169714.6) 2013-05-29

[30] EP (13175390.7) 2013-07-05

[11] **2,910,319**
[13] C

[51] **Int.Cl. A61K 38/43 (2006.01) A61K 31/04 (2006.01) C07K 19/00 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **STAPHYLOCOCCAL COAGULASE ANTIGENS AND METHODS OF THEIR USE**

[54] **ANTIGENES DES STAPHYLOCOQUES COAGULASE ET LEURS METHODES D'UTILISATION**

[72] MCADOW, MOLLY, US

[72] DEDENT, ANDREA, US

[72] CHENG, ALICE, US

[72] EMOLO, CARLA, US

[72] MISSIAKAS, DOMINIQUE, US

[72] SCHNEEWIND, OLAF, US

[73] UNIVERSITY OF CHICAGO, US

[85] 2015-10-23

[86] 2013-03-14 (PCT/US2013/031695)

[87] (WO2013/162746)

[30] US (61/638.831) 2012-04-26

[30] US (61/674.619) 2012-07-23

[11] **2,911,862**
[13] C

[51] **Int.Cl. B60J 1/08 (2006.01) B62D 65/06 (2006.01)**

[25] EN

[54] **BUS SIDE WINDOW ASSEMBLY AND METHOD**

[54] **ARRANGEMENT DE FENETRE LATERALE D'AUTOBUS ET PROCEDE**

[72] BEAUPRE, HUGUES, CA

[72] CHABOT, PASCAL, CA

[73] CORPORATION MICRO BIRD INC., CA

[86] (2911862)

[87] (2911862)

[22] 2015-11-10

[30] US (62/077,387) 2014-11-10

[11] **2,911,896**
[13] C

[51] **Int.Cl. B25D 11/02 (2006.01) B25D 17/00 (2006.01) B28D 1/26 (2006.01)**

[25] EN

[54] **POWERED TILE BREAKER**

[54] **CASSE-CARREAU ELECTRIQUE**

[72] TAILLY, RICHARD, CA

[73] TAILLY, RICHARD, CA

[86] (2911896)

[87] (2911896)

[22] 2015-11-16

[11] **2,912,967**
[13] C

[51] **Int.Cl. G01N 29/24 (2006.01) G01N 29/28 (2006.01)**

[25] EN

[54] **DEVICE AND SYSTEM FOR ULTRASONIC INSPECTION**

[54] **DISPOSITIF ET SYSTEME D'INSPECTION ULTRASONIQUE**

[72] SCACCABAROZZI, LUCA, DE

[73] BAKER HUGHES HOLDINGS LLC, US

[85] 2015-11-19

[86] 2014-05-20 (PCT/US2014/038754)

[87] (WO2014/193699)

[30] US (13/903,648) 2013-05-28

[11] **2,913,654**
[13] C

[51] **Int.Cl. H01J 49/06 (2006.01) H01J 49/40 (2006.01) H01J 49/42 (2006.01)**

[25] EN

[54] **METHOD OF GENERATING ELECTRIC FIELD FOR MANIPULATING CHARGED PARTICLES**

[54] **PROCEDE DE GENERATION DE CHAMP ELECTRIQUE POUR MANIPULER DES PARTICULES CHARGEES**

[72] HOYES, JOHN BRIAN, GB

[73] MICROMASS UK LIMITED, GB

[85] 2015-11-26

[86] 2014-05-28 (PCT/GB2014/051613)

[87] (WO2014/195677)

[30] GB (1310198.5) 2013-06-07

[30] EP (13171109.5) 2013-06-07

[11] **2,914,438**
[13] C

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/68 (2017.01) A61K 31/4745 (2006.01) C07D 491/22 (2006.01) C07K 16/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **ANTIBODY-SN-38 IMMUNOCONJUGATES WITH A CL2A LINKER**

[54] **IMMUNOCONJUGES ANTICORPS-SN-38 AVEC UN LIEUR CL2A**

[72] GOVINDAN, SERENGULAM V., US

[72] GALE, JONATHAN B., US

[72] HOLMAN, NICHOLAS J., US

[72] GOLDENBERG, DAVID M., US

[73] IMMUNOMEDICS, INC., US

[85] 2015-12-03

[86] 2014-04-17 (PCT/US2014/034518)

[87] (WO2015/012904)

[30] US (13/948,732) 2013-07-23

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[11] **2,915,077**
[13] C

[51] **Int.Cl. A61N 1/08 (2006.01) A61B 5/00 (2006.01) A61F 5/56 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **DYNAMIC MODIFICATION OF MODULATION THROUGHOUT A THERAPY PERIOD**

[54] **MODIFICATION DYNAMIQUE D'UNE MODULATION PENDANT TOUTE LA DUREE D'UNE THERAPIE**

[72] MASHIACH, ADI, BE
[72] MASHIACH, ITZIK, BE
[73] NYXOAH SA, BE
[85] 2015-12-10
[86] 2014-06-17 (PCT/IB2014/002291)
[87] (WO2015/004540)
[30] US (61/836,089) 2013-06-17

[11] **2,915,332**
[13] C

[51] **Int.Cl. A23L 7/00 (2016.01) A23L 7/157 (2016.01) A23L 29/212 (2016.01) A23P 20/10 (2016.01) A23P 30/20 (2016.01) A23L 3/3562 (2006.01)**

[25] EN

[54] **USE OF RESISTANT STARCHES IN COATING COMPOSITIONS**

[54] **UTILISATION D'AMIDONS RESISTANTS DANS DES COMPOSITIONS D'ENROBAGE**

[72] BAUR, JOACHIM N.C., CA
[72] DARLEY, KENNETH S., CA
[72] HAZLETT, LUKE P., CA
[72] KALLO, JOHN P., CA
[72] PATEL, NILESH C., CA
[73] GRIFFITH LABORATORIES LIMITED, CA
[85] 2015-12-11
[86] 2014-06-13 (PCT/CA2014/000499)
[87] (WO2014/197976)
[30] US (61/956,621) 2013-06-13

[11] **2,917,216**
[13] C

[51] **Int.Cl. E21B 19/20 (2006.01) E21B 19/16 (2006.01) E21B 19/24 (2006.01)**

[25] EN

[54] **DEVICE FOR HANDLING DRILL STRING COMPONENTS IN RESPECT OF A ROCK DRILL RIG AND ROCK DRILL RIG**

[54] **DISPOSITIF PERMETTANT DE MANIPULER DES COMPOSANTS DE RAME DE FORAGE PAR RAPPORT A UN APPAREIL DE FORAGE DE ROCHE ET APPAREIL DE FORAGE DE ROCHE**

[72] WASE, LARS, SE
[73] EPIROC ROCK DRILLS AKTIEBOLAG, SE
[85] 2015-12-31
[86] 2014-06-26 (PCT/SE2014/000092)
[87] (WO2015/016757)
[30] SE (1350926-0) 2013-08-02

[11] **2,917,527**
[13] C

[51] **Int.Cl. C07D 223/32 (2006.01) A61K 31/55 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMPOUNDS AND METHODS FOR TREATING CANCER, NEUROLOGICAL DISORDERS, ETHANOL WITHDRAWAL, ANXIETY, DEPRESSION, AND NEUROPATHIC PAIN**

[54] **COMPOSES ET METHODES POUR LE TRAITEMENT DU CANCER, DES TROUBLES NEUROLOGIQUES, DU SEVRAGE DE L'ETHANOL, DE L'ANXIETE, DE LA DEPRESSION, ET DE LA DOULEUR NEUROPATHIQUE**

[72] MARTIN, STEPHEN F., US
[72] SAHN, JAMES J., US
[72] SCOTT, LUISA, US
[72] PIERCE-SHIMOMURA, JONATHAN THOMAS, US
[73] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2016-01-05
[86] 2014-07-15 (PCT/US2014/046730)
[87] (WO2015/009742)
[30] US (61/846,234) 2013-07-15

[11] **2,919,241**
[13] C

[51] **Int.Cl. G01L 23/22 (2006.01) G01M 15/11 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL**

[54] **METHODES ET SYSTEMES SERVANT A ETABLIR LA SANTE DE COMPOSANTE MOTEUR AU MOYEN DE LA DISTORSION HARMONIQUE TOTALE DANS UN SIGNAL DE DETECTEUR DE CLIQUETIS**

[72] BIZUB, JEFFREY JACOB, US
[73] AI ALPINE US BIDCO INC., US
[86] (2919241)
[87] (2919241)
[22] 2016-01-28
[30] US (14/621,028) 2015-02-12

[11] **2,921,788**
[13] C

[51] **Int.Cl. F42B 39/24 (2006.01)**

[25] EN

[54] **CONTAINER FOR EXPLOSIVE MATERIAL**

[54] **CONTENANT POUR MATERIEL EXPLOSIF**

[72] ENGMANN, JAN BENDIX, DK
[73] PLASTPACK DEFENCE APS, DK
[85] 2016-02-18
[86] 2014-08-28 (PCT/EP2014/068243)
[87] (WO2015/028544)
[30] DK (PA 2013 70478) 2013-08-30

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[11] **2,922,892**
[13] C

[51] **Int.Cl. A01K 67/027 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **HISTIDINE ENGINEERED LIGHT CHAIN ANTIBODIES AND GENETICALLY MODIFIED NON-HUMAN ANIMALS FOR GENERATING THE SAME**
[54] **ANTICORPS A CHAINES LEGERES MODIFIEES PAR DE L'HISTIDINE ET ANIMAUX NON HUMAINS GENETIQUEMENT MODIFIES POUR GENERER CES ANTICORPS**
[72] MCWHIRTER, JOHN, US
[72] MACDONALD, LYNN, US
[72] MURPHY, ANDREW J., US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2016-02-29
[86] 2014-09-18 (PCT/US2014/056285)
[87] (WO2015/042250)
[30] US (14/030,424) 2013-09-18

[11] **2,923,963**
[13] C

[51] **Int.Cl. B01J 20/281 (2006.01) B01D 15/38 (2006.01) B03C 1/00 (2006.01) C08G 81/00 (2006.01)**
[25] EN
[54] **NEW PROCESS AND SYSTEM FOR MAGNETIC SEPARATION**
[54] **NOUVEAUX PROCESSUS ET SYSTEME POUR SEPARATION MAGNETIQUE**
[72] OSCARSSON, SVEN, SE
[72] ERIKSSON, KRISTOFER, SE
[72] ERIKSSON, PER-OLOV, SE
[73] LAB-ON-A-BEAD AB, SE
[85] 2016-03-08
[86] 2014-09-09 (PCT/SE2014/051036)
[87] (WO2015/034428)
[30] SE (1351038-3) 2013-09-09
[30] SE (1450206-6) 2014-02-20

[11] **2,925,546**
[13] C

[51] **Int.Cl. A61K 38/06 (2006.01) A61K 31/375 (2006.01) A61P 11/00 (2006.01) A61P 31/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING MUCOSAL TISSUE DISORDERS**
[54] **METHODES ET COMPOSITIONS POUR TRAITER DES TROUBLES DU TISSU MUCOSAL**
[72] ARNOLD, ROLAND, US
[72] HENKE, DAVID C., US
[73] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2016-03-21
[86] 2013-10-29 (PCT/US2013/067307)
[87] (WO2014/070769)
[30] US (61/719,804) 2012-10-29

[11] **2,925,625**
[13] C

[51] **Int.Cl. E04B 2/86 (2006.01) B28B 7/22 (2006.01) B28B 23/00 (2006.01)**
[25] EN
[54] **INSULATED CONCRETE PANEL FORM AND METHOD OF MAKING SAME**
[54] **COFFRAGE EN PANNEAU A BETON ISOLE ET SON PROCEDE DE FABRICATION**
[72] BAADER, BENJAMIN, CA
[73] BAADER, BENJAMIN, CA
[85] 2016-03-29
[86] 2014-12-16 (PCT/CA2014/000904)
[87] (WO2015/089642)
[30] US (61/917,188) 2013-12-17

[11] **2,926,082**
[13] C

[51] **Int.Cl. A61K 9/52 (2006.01) A61K 9/16 (2006.01) A61K 31/198 (2006.01) A61K 47/32 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **MUCO-ADHESIVE, CONTROLLED RELEASE FORMULATIONS OF LEVODOPA AND/OR ESTERS OF LEVODOPA AND USES THEREOF**
[54] **FORMULATIONS MUCCOADHESIVES A LIBERATION CONTROLEE DE LEVODOPA ET/OU D'ESTERS DE LEVODOPA ET LEURS UTILISATIONS**
[72] HSU, ANN, US
[72] DONG, LIANG C., US
[72] DING, AMY, US
[72] GUPTA, SUNEEL, US
[73] IMPAX LABORATORIES, LLC, US
[85] 2016-03-31
[86] 2014-10-07 (PCT/US2014/059554)
[87] (WO2015/054302)
[30] US (61/887,762) 2013-10-07

[11] **2,927,337**
[13] C

[51] **Int.Cl. C04B 28/34 (2006.01) C04B 11/28 (2006.01) C04B 12/02 (2006.01)**
[25] EN
[54] **STRUVITE-K AND SYNGENITE COMPOSITION FOR USE IN BUILDING MATERIALS**
[54] **COMPOSITION DE STRUVITE-K ET DE SYNGENITE DESTINEE A ETRE UTILISEE DANS DES MATERIAUX DE CONSTRUCTION**
[72] HAUBER, ROBERT J., US
[72] BOYDSTON, GERALD D., US
[72] FRAILEY, NATHAN, US
[72] LAMBERET, SEVERINE, FR
[72] PATTARKINE, GAURAV V., US
[72] CHERIAN, ISAAC K., US
[72] CENTURIONE, SERIGO, US
[72] GHOSH, ANIRBAN, US
[73] CERTAIN TEED GYPSUM, INC., US
[85] 2016-04-13
[86] 2014-10-14 (PCT/US2014/060518)
[87] (WO2015/057732)
[30] US (61/890,702) 2013-10-14
[30] US (61/890,720) 2013-10-14
[30] US (61/892,025) 2013-10-17
[30] US (61/892,581) 2013-10-18
[30] US (61/915,601) 2013-12-13
[30] US (14/457,826) 2014-08-12

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[11] **2,928,157**
[13] C

[51] **Int.Cl. F42B 5/067 (2006.01) F42B 5/02 (2006.01) F42B 14/02 (2006.01)**

[25] EN
[54] **CARTRIDGE**
[54] **CARTOUCHE**
[72] GELFERT, STEPHAN, DE
[73] RUAG AMMOTEC GMBH, DE
[85] 2016-04-20
[86] 2014-10-24 (PCT/EP2014/072866)
[87] (WO2015/059282)
[30] DE (10 2013 017 672.7) 2013-10-25

[11] **2,929,085**
[13] C

[51] **Int.Cl. A45D 1/10 (2006.01) A45D 1/00 (2006.01) A45D 1/16 (2006.01) A45D 1/18 (2006.01)**

[25] EN
[54] **HAIR CURLING DEVICES AND RELATED SYSTEMS AND METHODS**
[54] **DISPOSITIFS DE FRISAGE DE CHEVEUX, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] LEE, KYOUNG HAK, US
[73] KISS NAIL PRODUCTS, INC., US
[85] 2016-04-28
[86] 2014-11-05 (PCT/US2014/064082)
[87] (WO2015/069733)
[30] US (61/901,969) 2013-11-08
[30] US (14/151,559) 2014-01-09

[11] **2,929,097**
[13] C

[51] **Int.Cl. C21D 8/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01)**

[25] EN
[54] **METAL STEEL PRODUCTION BY SLAB CASTING**
[54] **PRODUCTION D'ACIER METALLIQUE PAR COULEE DE BRAMES**
[72] BRANAGAN, DANIEL JAMES, US
[72] JUSTICE, GRANT G., US
[72] BALL, ANDREW T., US
[72] WALLESER, JASON K., US
[72] MEACHAM, BRIAN E., US
[72] CLARK, KURTIS, US
[72] MA, LONGZHOU, US
[72] YAKUBTSOV, IGOR, US
[72] LARISH, SCOTT, US
[72] CHENG, SHENG, US
[72] GIDDENS, TAYLOR L., US
[72] FRERICH, ANDREW E., US
[72] SERGUEEVA, ALLA V., US
[73] UNITED STATES STEEL CORPORATION, US
[85] 2016-04-28
[86] 2014-10-28 (PCT/US2014/062647)
[87] (WO2015/066022)
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[54] **PROPPANT CLUSTER FORMING COMPOSITION COMPRISING A ZETA POTENTIAL ALTERING COMPOSITION COMPRISING AN AMINE-PHOSPHATE REACTION PRODUCT AND A COATING CROSSLINKING COMPOSITION**
[54] **COMPOSITION FORMANT DES GROUPES DE SOUTÈNEMENT COMPRENANT UNE COMPOSITION MODIFIANT LE POTENTIEL ZETA COMPRENANT UN PRODUIT DE REACTION AMINE-PHOSPHATE ET UNE COMPOSITION DE LIAISON CROISEE DE REVETEMENT**
[72] SAINI, RAJESH K., US
[72] SMITH, CLAYTON S., US
[72] HWANG, CHIN-CHAU, US
[72] VIGDERMAN, LEONID, US
[72] TREYBIG, DUANE, US
[72] SMITH, KERN L., US
[72] SAMUEL, MATHEW M., US
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[54] **METHODS FOR PROCESSING METAL ALLOYS**
[54] **PROCEDES DE TRAITEMENT D'ALLIAGES METALLIQUES**
[72] FORBES JONES, ROBIN M., US
[72] MINISANDRAM, RAMESH S., US
[73] ATI PROPERTIES LLC, US
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[54] **SNAP TOGETHER U-SHAPED CUP SEAL**
[54] **JOINT CALOTTE EN FORME DE U A ENCLENCHER**
[72] BECKER, ROGER B., US
[72] ERIKSSON, BENGT, US
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[73] GL&V LUXEMBOURG S.A.R.L., LU
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[54] **PHARMACEUTICAL COMPOSITION COMPRISING GLUTARIMIDE DERIVATIVES AND USE THEREOF IN THE TREATMENT OF EOSINOPHILIC DISEASES**
[54] **COMPOSITION PHARMACEUTIQUE RENFERMANT DES DERIVES DE GLUTARIMIDE ET SON UTILISATION DANS LE TRAITEMENT DE MALADIES EOSINOPHILIQUES**
[72] NEBOLSIN, VLADIMIR EVGENIEVICH, RU
[72] KROMOVA, TATYANA ALEXANDROVNA, RU
[72] RYDLOVSKAYA, ANASTASIA VLADIMIROVNA, RU
[72] CHUCHALIN, ALEXANDER GRIGORIEVICH, RU
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[54] **CONTINUOUS FIBER BRAKE ROTOR PREFORM AND APPARATUSES AND METHODS FOR MANUFACTURING SAME**
[54] **PREFORME DE ROTOR DE FREIN A FIBRES CONTINUES, ET APPAREILS ET PROCEDES DE FABRICATION CORRESPONDANTS**
[72] SIMPSON, ALLEN, US
[73] ADVANCED CARBON TECHNOLOGIES, LLC, US
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[54] **DEVICE AND METHOD FOR SCALABLE CODING OF VIDEO INFORMATION**
[54] **DISPOSITIF ET PROCEDE DE CODAGE MODULABLE D'INFORMATIONS VIDEO**
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US
[72] HENDRY, FNU, US
[72] WANG, YE-KUI, US
[73] QUALCOMM INCORPORATED, US
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[54] **SYSTEMS, APPARATUSES AND METHODS TO ENCOURAGE INJECTION SITE ROTATION AND PREVENT LIPODYSTROPHY FROM REPEATED INJECTIONS TO A BODY AREA**
[54] **SYSTEMES, APPAREILS ET PROCEDES POUR ENCOURAGER LA ROTATION D'UN SITE D'INJECTION ET PREVENIR LA LIPODYSTROPHIE DUE A DES INJECTIONS REPETEES DANS UNE ZONE DU CORPS**
[72] FIEDLER, ALAN, US
[72] WEST, ROBERT, US
[72] SRINIVASAN, SUDARSAN, US
[72] SULLIVAN, SEAN, US
[72] DIBIASI, MICHAEL, US
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[72] GERIG, DUANE A., US
[72] MOORE, WILLIAM P., US
[73] RADIO SYSTEMS CORPORATION, US
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[73] REX BIONICS LIMITED, NZ
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[54] **HERBICIDAL SUBSTITUTED PYRIMIDINYLOXY BENZENE COMPOUNDS**
[54] **COMPOSES HERBICIDES DE PYRIMIDINYLOXYBENZENE SUBSTITUES**
[72] SHARPE, PAULA LOUISE, US
[72] STEVENSON, THOMAS MARTIN, US
[72] DEPREZ, NICHOLAS RYAN, US
[72] REDDY, RAVISEKHARA P., IN
[72] CHITTABOINA, SRINIVAS, IN
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[54] **MATERIAL HANDLING VEHICLE WITH PRODUCT PLACEMENT INDICATION**
[54] **VEHICULE DE MANUTENTION DE PRODUIT AVEC INDICATION DE POSITIONNEMENT DE PRODUIT**
[72] CARLSON, KENNETH W., US
[72] SWEENEY, DAVID J., US
[72] GARVEY, DONALD, US
[72] KOSAR, GREGORY, US
[72] DRISCALL, DANIEL R., US
[73] THE RAYMOND CORPORATION, US
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[54] **METHYLENE CARBAMATE LINKERS FOR USE WITH TARGETED-DRUG CONJUGATES**
[54] **LIANTS A BASE DE CARBAMATE DE METHYLENE A UTILISER AVEC DES CONJUGUES DE MEDICAMENTS CIBLES**
[72] KOLAKOWSKI, ROBERT, US
[72] JEFFREY, SCOTT, US
[72] BURKE, PATRICK, US
[73] SEAGEN INC., US
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[25] EN
[54] **SCREW CONNECTOR FOR MEDICAL HOSE SYSTEMS AND MEDICAL HOSE SYSTEMS HAVING A SCREW CONNECTOR**
[54] **RACCORD A VIS POUR SYSTEMES DE TUYAUX MEDICAUX ET SYSTEMES DE TUYAUX MEDICAUX COMPORTANT UN RACCORD A VIS**
[72] LAPP, UWE, DE
[72] LEICK, LOTHAR, DE
[72] MULLER, RALF, DE
[72] URBAN, PETER, DE
[73] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE
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[25] EN
[54] **VAPORIZATION DEVICE SYSTEMS AND METHODS**
[54] **DISPOSITIF, SYSTEMES ET PROCEDES DE VAPORISATION**
[72] MONSEES, JAMES, US
[72] BOWEN, ADAM, US
[72] CHRISTENSEN, STEVEN, US
[72] MORENSTEIN, JOSHUA, US
[72] HIBMACRONAN, CHRISTOPHER NICHOLAS, US
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[54] **SYSTEM AND METHOD FOR RECORDING A BITE OF AN EDENTULOUS INDIVIDUAL**

[54] **SYSTEME ET PROCEDE POUR DETERMINER UNE MORSURE D'UN INDIVIDU EDENTE**

[72] DERRAUGH, ERIN LENORE, CA

[72] COWBURN, STEVE, CA

[72] COWBURN, GEORGE, CA

[73] TRISPERA DENTAL INC., CA

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[25] EN

[54] **HIGHLY SCALABLE FABRICATION TECHNIQUES AND PACKAGING DEVICES FOR ELECTRONIC CIRCUITS**

[54] **TECHNIQUES DE FABRICATION TRES EVOLUTIVES ET DISPOSITIFS D'ENCAPSULATION POUR CIRCUITS ELECTRONIQUES**

[72] COLEMAN, TODD PRENTICE, US

[72] KIM, YUN SOUNG, US

[72] BAJEMA, MICHAEL, US

[72] WEINREB, ROBERT N., US

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

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[54] **COMPLIANT ISOLATOR**

[54] **DISPOSITIF ISOLANT CONFORME**

[72] STEGAWSKI, PIOTR, US

[73] PACCAR INC, US

[86] (2935161)

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[30] US (14/799391) 2015-07-14

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[54] **METHOD FOR THE PREPARATION OF BIOPOLYMERS**

[54] **PROCEDE DE PREPARATION DE BIOPOLYMERES**

[72] LE, MINH SON, GB

[73] UNITED UTILITIES PLC, GB

[85] 2016-06-30

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[54] **PLATELET ACTIVATION AND GROWTH FACTOR RELEASE USING ELECTRIC PULSES**

[54] **ACTIVATION PLAQUETTAIRE ET LIBERATION DE FACTEURS DE CROISSANCE A L'AIDE D'IMPULSIONS ELECTRIQUES**

[72] NECULAES, VASILE BOGDAN, US

[72] TORRES, ANDREW SOLIZ, US

[72] CAIAFA, ANTONIO, US

[72] LEE, BRIAN DUH-LAN, US

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[54] **SYSTEMES ET PROCEDES D'ARMATURE TRIDIMENSIONNELLE D'AGREGATS**

[72] WHITE, DAVID J., US

[73] GEOQORE, LLC, US

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[54] **SYSTEMES ET PROCEDES ANTI-PRISE EN CHARGE DESTINES A DES PERIPHERIQUES RATTACHES A UN RESEAU**
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[73] VIVINT, INC., US
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[54] **CONDUIT-COUPLING ADAPTOR FOR COUPLING FLUID CONDUITS OF DISPARATE DIAMETERS**
[54] **ADAPTATEUR DE COUPLAGE DE CONDUITS POUR COUPLER DES CONDUITS DE FLUIDE DE DIAMETRES DIVERS**
[72] FARLAND, RICHARD M., US
[72] TALBOT, COREY, US
[73] HYDE TOOLS, INC., US
[73] FARLAND, RICHARD M., US
[73] TALBOT, COREY, US
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[13] C

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[25] EN
[54] **RAPID CURING THIOL EPOXY RESIN WITH IMPROVED COMPRESSION STRENGTH PERFORMANCE**
[54] **RESINE EPOXYDE THIOL A DURCISSEMENT RAPIDE PRESENTANT UN RENDEMENT DE FORCE DE COMPRESSION AMELIORE**
[72] NOWAK, ANDREW P., US
[72] RODRIGUEZ, APRIL R., US
[72] BOUNDY, THOMAS, US
[72] PAJEL, CARISSA A., US
[72] ADJORLOLO, ALAIN A., US
[73] THE BOEING COMPANY, US
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[87] (2936744)
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[13] C

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[25] EN
[54] **VEHICLE SOBRIETY INTERLOCK SYSTEMS AND METHODS WITH VEHICLE WARM-UP SUPPORT**
[54] **SYSTEMES DE VERROUILLAGE DE SOBRIETE POUR VEHICULES ET PROCEDES AVEC PRISE EN CHARGE DU PRECHAUFFAGE D'UN VEHICULE**
[72] NELSON, AARON THEODORE, US
[73] 1A SMART START LLC, US
[85] 2016-07-14
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[87] (WO2015/138213)
[30] US (61/950,579) 2014-03-10
[30] US (14/638,680) 2015-03-04

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[13] C

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[72] BIRCH, MELISSA J., GB
[72] PENCHEVA, KLIMENTINA DIMITROVA, GB
[73] PFIZER INC., US
[86] (2937257)
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[22] 2016-07-27
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[30] US (62/352,349) 2016-06-20

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[13] C

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[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE LA NEUTROPENIE**
[72] WU, LINGTAO, US
[73] CHILDREN'S HOSPITAL LOS ANGELES, US
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[54] **COMPOSITION AQUEUSE DE REVETEMENT DE SURFACE ET PARTICULES MODIFIEES**
[72] BAI, FENG, US
[72] THOMPSON, WENDY L., US
[72] SYKORA, HAEEN, US
[72] HOBBS, TERRY R., US
[73] 3M INNOVATIVE PROPERTIES COMPANY, US
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[54] **METHODES DE FABRICATION DE NOIR DE CARBONE DANS UN REACTEUR A PLASMA**
[72] JOHNSON, PETER L., US
[72] HANSON, ROBERT J., US
[72] TAYLOR, ROSCOE W., US
[73] MONOLITH MATERIALS, INC., US
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[25] EN
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[54] **REGULATEUR DE PRESSION DE PNEU DYNAMIQUE POUR BICYCLETTES**
[72] SERRET AVILA, JAVIER, BE
[72] VERSTRAETE, MATHIJS, BE
[73] VERSEC SPRL, BE
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[30] EP (14188149.0) 2014-10-08

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[13] C

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[54] **COUPELLE POUR CAPSULE DE CAFE**
[72] MINGANTI, GIANNI, IT
[73] SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA, IT
[85] 2016-07-13
[86] 2015-02-24 (PCT/IB2015/051374)
[87] (WO2015/128799)
[30] IT (BO2014A000101) 2014-02-28

[11] **2,939,094**
[13] C

[51] **Int.Cl. G01N 33/00 (2006.01)**
[25] EN
[54] **METHODS FOR COMPENSATING LONG TERM SENSITIVITY DRIFT OF ELECTROCHEMICAL GAS SENSORS EXPOSED TO NITRIC OXIDE**
[54] **PROCEDES POUR COMPENSER UNE DERIVE DE SENSIBILITE A LONG TERME DE CAPTEURS DE GAZ ELECTROCHIMIQUES EXPOSES A DE L'OXYDE NITRIQUE**
[72] TOLMIE, CRAIG R., US
[72] MILSAP, JEFF, US
[72] ACKER, JARON M., US
[73] MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED, IE
[85] 2016-08-08
[86] 2015-02-19 (PCT/US2015/016627)
[87] (WO2015/127085)
[30] US (61/941,725) 2014-02-19
[30] US (14/626,409) 2015-02-19

[11] **2,939,225**
[13] C

[51] **Int.Cl. G01S 5/02 (2010.01) A01K 29/00 (2006.01)**
[25] EN
[54] **METHOD FOR LOCATING ANIMALS**
[54] **PROCEDE DE LOCALISATION D'ANIMAUX**
[72] AUER, WOLFGANG, AT
[73] SMARTBOW GMBH, AT
[85] 2016-08-10
[86] 2015-02-12 (PCT/AT2015/000022)
[87] (WO2015/120495)
[30] AT (A 107/2014) 2014-02-14

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[11] **2,939,750**
[13] C

[51] **Int.Cl. A21B 5/00 (2006.01) A21B 1/00 (2006.01) A21C 1/00 (2006.01) A21C 14/00 (2006.01) A23C 3/00 (2006.01)**

[25] EN

[54] **AUTOMATED ON DEMAND BAKING SYSTEM**

[54] **SYSTEME DE CUISSON SUR DEMANDE AUTOMATISE**

[72] MARCO, DORON, IL

[72] CARASSO, AYELET, IL

[73] GENIE ENTERPRISE LTD, IL

[85] 2016-08-15

[86] 2015-02-17 (PCT/IL2015/050182)

[87] (WO2015/121871)

[30] US (61/940,516) 2014-02-17

[30] US (14/208,670) 2014-03-13

[11] **2,939,782**
[13] C

[51] **Int.Cl. B01J 19/32 (2006.01) B01J 8/06 (2006.01)**

[25] EN

[54] **CATALYST ARRANGEMENT**

[54] **ENSEMBLE CATALYSEUR**

[72] FARNELL, PETER WILLIAM, GB

[73] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB

[85] 2016-08-16

[86] 2015-02-17 (PCT/GB2015/050448)

[87] (WO2015/132556)

[30] GB (1403788.1) 2014-03-04

[11] **2,940,089**
[13] C

[51] **Int.Cl. A01N 25/30 (2006.01) A01N 43/56 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01) C07C 69/96 (2006.01)**

[25] EN

[54] **CARBONATES OF ALCOHOL ALKOXYLATES AS ADJUVANTS FOR CROP PROTECTION**

[54] **CARBONATES D'ALCOXYLATES D'ALCOOL UTILISES COMME ADJUVANTS POUR LA PROTECTION DES CULTURES**

[72] HAHN, BJORN THOMAS, DE

[72] BERGHAUS, RAINER, DE

[72] SEMAR, MARTIN, DE

[72] RATHS, HANS-CHRISTIAN, DE

[73] BASF SE, DE

[85] 2016-08-18

[86] 2015-02-05 (PCT/EP2015/052449)

[87] (WO2015/135701)

[30] EP (14159195.8) 2014-03-12

[30] EP (14180690.1) 2014-08-12

[11] **2,940,426**
[13] C

[51] **Int.Cl. H01M 4/13 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/58 (2010.01) H01M 4/62 (2006.01)**

[25] EN

[54] **POSITIVE ELECTRODE MIXTURE COMPRISING CARBON BLACK AND A POSITIVE ELECTRODE (CATHODE) ACTIVE SUBSTANCE, AND NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY COMPRISING THE POSITIVE ELECTRODE MIXTURE**

[54] **MELANGE D'ELECTRODES POSITIVES COMPRENANT DU NOIR DE CARBONE ET UNE SUBSTANCE ACTIVE POSITIVE (CATHODE), ET ACCUMULATEUR SECONDAIRE A ELECTROLYTE NON AQUEUX COMPRENANT UN MELANGE D'ELECTRODES POSITIVES**

[72] KAJIYAMA, AKIHISA, JP

[72] SANTOKI, TERUAKI, JP

[72] MORITA, DAISUKE, JP

[72] MASAKI, RYUTA, JP

[72] SUGIHARA, TAKAHIKO, JP

[72] WAKIYAMA, TSUYOSHI, JP

[72] MATSUMOTO, KAZUTOSHI, JP

[72] YODA, AKIRA, JP

[72] INADA, TARO, JP

[72] YOKOTA, HIROSHI, JP

[72] KAWASAKI, TAKASHI, JP

[73] TODA KOGYO CORP., JP

[73] DENKA COMPANY LIMITED, JP

[85] 2016-08-22

[86] 2015-02-24 (PCT/JP2015/055226)

[87] (WO2015/129683)

[30] JP (2014-036292) 2014-02-27

[11] **2,940,542**
[13] C

[51] **Int.Cl. F16K 31/126 (2006.01)**

[25] EN

[54] **ACTUATOR APPARATUS WITH INTERNAL TUBING AND ANTI-ROTATION MECHANISM**

[54] **APPAREIL D'ACTIONNEUR DOTE DE TUBULURE INTERNE ET MECANISME ANTI-ROTATION**

[72] ARNOLD, DAVID ANTHONY, US

[72] ADAMS, DANIEL MARTIN, US

[73] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2016-08-23

[86] 2015-02-25 (PCT/US2015/017415)

[87] (WO2015/130726)

[30] US (14/189,627) 2014-02-25

[11] **2,940,623**
[13] C

[51] **Int.Cl. C09K 5/04 (2006.01) F25B 1/04 (2006.01)**

[25] EN

[54] **USE OF R-1233 IN LIQUID CHILLERS**

[54] **UTILISATION DU R-1233 DANS DES REFROIDISSEURS DE LIQUIDES**

[72] VAN HORN, BRETT L., US

[72] BONNET, PHILIPPE, FR

[72] ABBAS, LAURENT, US

[73] ARKEMA INC., US

[85] 2016-08-24

[86] 2015-02-23 (PCT/US2015/017032)

[87] (WO2015/130589)

[30] US (14/188,986) 2014-02-25

[11] **2,942,321**
[13] C

[51] **Int.Cl. H02K 7/02 (2006.01) H05K 5/03 (2006.01) H05K 7/20 (2006.01)**

[25] EN

[54] **HYBRID REAR COVER AND MOUNTING BRACKET FOR ELECTRONIC DISPLAY**

[54] **COUVERCLE ARRIERE HYBRIDE ET SUPPORT DE MONTAGE POUR DISPOSITIF D'AFFICHAGE ELECTRONIQUE**

[72] DUNN, WILLIAM, US

[72] DIAZ, MARCOS, US

[72] AZEVEDO, KYLE, US

[73] MANUFACTURING RESOURCES INTERNATIONAL, INC., US

[85] 2016-09-09

[86] 2015-03-11 (PCT/US2015/019975)

[87] (WO2015/138609)

[30] US (61/951,344) 2014-03-11

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[11] **2,942,467**

[13] C

- [51] **Int.Cl. E05G 1/14 (2006.01)**
[25] EN
[54] **CASH SPOILING SYSTEM**
[54] **SYSTEME DE DEGRADATION D'ESPECES**
[72] GRANT, DUNCAN JOHN, GB
[72] MILA, PETER, GB
[72] ROGERS, PETER, GB
[73] ATM SECURITY SYSTEMS INTERNATIONAL LIMITED, GB
[85] 2016-09-12
[86] 2015-03-11 (PCT/GB2015/000086)
[87] (WO2015/136235)
[30] GB (1404502.5) 2014-03-13

[11] **2,943,034**

[13] C

- [51] **Int.Cl. A61K 47/26 (2006.01) A61K 9/19 (2006.01) A61K 38/48 (2006.01) A61K 47/18 (2017.01) A61P 7/04 (2006.01) F26B 5/06 (2006.01)**
[25] EN
[54] **LYOPHILIZED FACTOR IX FORMULATIONS**
[54] **FORMULATIONS DE FACTEUR IX LYOPHILISEES**
[72] THOME, BRIAN M., US
[72] PARKHURST-LANG, CHERIE, US
[72] LEVEILLE, BRANDON W., US
[73] BIOVERATIV THERAPEUTICS INC., US
[85] 2016-09-15
[86] 2015-03-24 (PCT/US2015/022141)
[87] (WO2015/148444)
[30] US (61/969,801) 2014-03-24

[11] **2,943,099**

[13] C

- [51] **Int.Cl. A01C 5/06 (2006.01)**
[25] EN
[54] **WALKING BEAM FURROW CLOSING SYSTEM FOR DISC SEEDER**
[54] **MECANISME DE FERMETURE DE SILLON DE MONTANT FLOTTANT DESTINE A UN SEMOIR A DISQUE**
[72] SHEPPARD, CLINT W., CA
[73] MORRIS EQUIPMENT LTD., CA
[86] (2943099)
[87] (2943099)
[22] 2016-09-22
[30] US (15/271,797) 2016-09-21
[30] US (62/222,644) 2015-09-23

[11] **2,943,150**

[13] C

- [51] **Int.Cl. F02C 9/46 (2006.01) B64D 31/12 (2006.01) F02C 3/10 (2006.01) F02C 9/56 (2006.01) F02K 3/12 (2006.01)**
[25] FR
[54] **METHOD FOR DETECTING A FAILURE OF A FIRST TURBINE ENGINE OF A TWIN-ENGINE HELICOPTER AND FOR OPERATING THE SECOND TURBINE ENGINE, AND CORRESPONDING DEVICE**
[54] **PROCEDE DE DETECTION D'UNE DEFAILLANCE D'UN PREMIER TURBOMOTEUR D'UN HELICOPTERE BIMOTEUR ET DE COMMANDE DU SECOND TURBOMOTEUR, ET DISPOSITIF CORRESPONDANT**
[72] LESCHER, FABIEN, FR
[72] MARIN, JEAN PHILIPPE JACQUES, FR
[72] ETCHEPARE, PHILIPPE, FR
[73] SAFRAN HELICOPTER ENGINES, FR
[85] 2016-09-19
[86] 2015-03-20 (PCT/FR2015/050697)
[87] (WO2015/145041)
[30] FR (1452642) 2014-03-27

[11] **2,943,227**

[13] C

- [51] **Int.Cl. C08L 71/12 (2006.01) C07C 43/11 (2006.01) C08J 5/00 (2006.01) C09D 171/12 (2006.01)**
[25] EN
[54] **TRI-SUBSTITUTED AROMATIC-CONTAINING ADDITIVES AND SURFACTANTS AND METHODS FOR USE**
[54] **TENSIOACTIFS ET ADDITIFS TRISUBSTITUES CONTENANT DES AROMATIQUES ET PROCEDES D'UTILISATION ASSOCIES**
[72] ANDERSON, EUGENE J., US
[72] PAKENHAM, DEREK, US
[72] MARTINEZ-CASTRO, NEMESIO, US
[72] RHODES, MICHAEL, US
[72] ZHOU, LICHANG, US
[73] RHODIA OPERATIONS, FR
[85] 2016-09-19
[86] 2015-03-18 (PCT/US2015/021278)
[87] (WO2015/143050)
[30] US (61/954,852) 2014-03-18
[30] US (61/954,857) 2014-03-18

[11] **2,943,236**

[13] C

- [51] **Int.Cl. A61K 8/9789 (2017.01) A61K 8/06 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/67 (2006.01) A61Q 19/00 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **FORMULATION FOR PERSONAL HYGIENE**
[54] **FORMULATION POUR L'HYGIENE PERSONNELLE**
[72] PANIN, GIORGIO, IT
[73] HULKA S.R.L., IT
[85] 2016-09-19
[86] 2015-03-20 (PCT/EP2015/055927)
[87] (WO2015/144583)
[30] IT (MI2014A000495) 2014-03-24

[11] **2,943,376**

[13] C

- [51] **Int.Cl. A61K 9/12 (2006.01) A61K 39/395 (2006.01) A61K 47/18 (2017.01) A61M 11/00 (2006.01)**
[25] EN
[54] **NEBULIZATION OF IMMUNOGLOBULIN**
[54] **NEBULISATION D'IMMUNOGLOBULINE**
[72] VONARBURG, CEDRIC PIERRE, CH
[72] STEINFUHRER, KARIN, DE
[72] BAUMANN, ULRICH, DE
[73] MEDIZINISCHE HOCHSCHULE HANNOVER, DE
[73] CSL BEHRING AG, CH
[73] PARI PHARMA GMBH, DE
[85] 2016-09-20
[86] 2015-04-02 (PCT/EP2015/057285)
[87] (WO2015/150510)
[30] EP (14163399.0) 2014-04-03

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[11] **2,944,120**
[13] C

[51] **Int.Cl. G01M 15/14 (2006.01) F02K 9/00 (2006.01) F02K 9/56 (2006.01) F02K 9/96 (2006.01) G06N 3/02 (2006.01)**

[25] FR

[54] **METHOD AND DEVICE FOR MONITORING A PARAMETER OF A ROCKET ENGINE**

[54] **PROCEDE ET DISPOSITIF DE SURVEILLANCE D'UN PARAMETRE D'UN MOTEUR DE FUSEE**

[72] ROMET, ANTOINE, FR

[72] LE GONIDEC, SERGE, FR

[72] MALIKOV, DIMITRI, FR

[72] GAZAGNES, JONATHAN, FR

[73] SAFRAN AIRCRAFT ENGINES, FR

[85] 2016-09-27

[86] 2015-04-02 (PCT/FR2015/050858)

[87] (WO2015/150706)

[30] FR (1452954) 2014-04-03

[11] **2,944,345**
[13] C

[51] **Int.Cl. B01J 2/04 (2006.01) A61M 15/00 (2006.01)**

[25] EN

[54] **MULTI-NOZZLE SPRAY DRYER, METHOD FOR SCALE-UP OF SPRAY DRIED INHALATION POWDERS, MULTI-NOZZLE APPARATUS AND USE OF MULTIPLE NOZZLES IN A SPRAY DRYER**

[54] **SECHOIR A PULVERISATION A BUSES MULTIPLES, PROCEDE POUR MISE A L'ECHELLE DE POUDRES D'INHALATION SECHES PAR ATOMISATION, APPAREIL A BUSES MULTIPLES ET UTILISATION DE BUSES MULTIPLES DANS UN SECHOIR A PULVERISATION**

[72] SANTOS, JOSE LUIS, PT

[72] OLIVAL, LUIS, PT

[72] PALHA, MARIA, PT

[72] MAIA, FILIPA, PT

[72] NEVES, FILIPE, PT

[73] HOVIONE INTERNATIONAL LTD, CN

[85] 2016-09-29

[86] 2015-03-30 (PCT/GB2015/050960)

[87] (WO2015/150761)

[30] PT (107567) 2014-03-31

[11] **2,944,724**
[13] C

[51] **Int.Cl. E21B 3/02 (2006.01)**

[25] EN

[54] **DRILLING RIG AND DRILL HEAD OF A DRILLING RIG**

[54] **INSTALLATION DE FORAGE ET TETE DE FORAGE D'UNE INSTALLATION DE FORAGE**

[72] HANNA, JAN, SE

[72] FORSBERG, MARTIN, SE

[72] GRYLER, JIM, SE

[73] EPIROC ROCK DRILLS AKTIEBOLAG, SE

[85] 2016-10-03

[86] 2015-04-17 (PCT/SE2015/050446)

[87] (WO2015/163809)

[30] SE (1450485-6) 2014-04-24

[11] **2,944,778**
[13] C

[51] **Int.Cl. C07F 5/02 (2006.01) A61K 31/58 (2006.01) A61P 31/18 (2006.01) C07C 309/65 (2006.01) C07J 63/00 (2006.01)**

[25] EN

[54] **TRITERPENOIDS WITH HIV MATURATION INHIBITORY ACTIVITY**

[54] **TRITERPENES A ACTIVITE D'INHIBITION DE LA MATURATION DU VIH**

[72] SIT, SING-YUEN, US

[72] CHEN, YAN, US

[72] CHEN, JIE, US

[72] SWIDORSKI, JACOB, US

[72] VENABLES, BRIAN LEE, US

[72] SIN, NY, US

[72] MEANWELL, NICHOLAS A., US

[72] REGUEIRO-REN, ALICIA, US

[72] HARTZ, RICHARD A., US

[72] XU, LI, US

[72] LIU, ZHENG, US

[73] VIIV HEALTHCARE UK (NO.4) LIMITED, GB

[85] 2016-10-03

[86] 2015-04-09 (PCT/US2015/025029)

[87] (WO2015/157483)

[30] US (61/978,306) 2014-04-11

[11] **2,945,399**
[13] C

[51] **Int.Cl. H04W 28/08 (2009.01) H04W 36/08 (2009.01)**

[25] EN

[54] **UPDATES TO SUPPORT NETWORK BASED INTERNET PROTOCOL FLOW MOBILITY**

[54] **MISES A JOUR POUR LE SUPPORT DE MOBILITE DE FLUX DE PROTOCOLE INTERNET BASES SUR LE RESEAU**

[72] GUPTA, VIVEK, US

[72] JAIN, PUNEET K., US

[72] STOJANOVSKI, ALEXANDRE S., FR

[73] INTEL CORPORATION, US

[85] 2016-10-07

[86] 2015-04-08 (PCT/US2015/024813)

[87] (WO2015/171238)

[30] US (61/990,609) 2014-05-08

[30] US (14/581,803) 2014-12-23

[11] **2,945,911**
[13] C

[51] **Int.Cl. D02G 3/36 (2006.01) D02G 3/44 (2006.01)**

[25] FR

[54] **NOVEL PROCESS FOR MANUFACTURING FLAME RETARDANT YARNS**

[54] **NOUVEAU PROCEDE DE FABRICATION DE FILS IGNIFUGES**

[72] DAMOUR, FRANCOIS-XAVIER, FR

[73] MERMET, FR

[85] 2016-10-14

[86] 2015-04-21 (PCT/FR2015/051075)

[87] (WO2015/162371)

[30] FR (1453617) 2014-04-22

[11] **2,945,964**
[13] C

[51] **Int.Cl. A23J 1/08 (2006.01) B01D 15/08 (2006.01) C07K 1/18 (2006.01) C07K 16/02 (2006.01)**

[25] EN

[54] **EGG WHITE PROCESSING**

[54] **TRAITEMENT DE BLANC D'OEUF**

[72] CHEN, LIANG, US

[72] LEAVITT, MARKLEY C., US

[72] TITUS, MICHAEL, US

[73] ALEXION PHARMACEUTICALS, INC., US

[85] 2016-10-14

[86] 2015-04-21 (PCT/US2015/026794)

[87] (WO2015/164320)

[30] US (61/983,003) 2014-04-23

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[11] **2,946,032**
[13] C

- [51] **Int.Cl. A61K 38/48 (2006.01) A61P 17/02 (2006.01)**
[25] EN
[54] **USE OF APC ANALOGUE FOR WOUND HEALING**
[54] **UTILISATION D'ANALOGUE D'APC POUR LA CICATRISATION DES PLAIES**
[72] XUE, MEILANG, AU
[72] JACKSON, CHRISTOPHER JOHN, AU
[73] ZZ BIOTECH LLC, US
[85] 2016-10-17
[86] 2015-04-16 (PCT/AU2015/050177)
[87] (WO2015/157822)
[30] AU (2014901397) 2014-04-16
[30] AU (2014902900) 2014-07-25

[11] **2,946,039**
[13] C

- [51] **Int.Cl. H04N 21/236 (2011.01) H04N 21/231 (2011.01) H04N 21/433 (2011.01) H04N 21/436 (2011.01)**
[25] EN
[54] **PUSHING VIDEO TO PANELS AND SENDING METADATA TAG TO CLOUD**
[54] **DIFFUSION SELECTIVE DE VIDEO VERS DES PANNEAUX ET ENVOI D'UNE ETIQUETTE DE METADONNEES A UN NUAGE**
[72] WARREN, JEREMY B., US
[73] VIVINT, INC., US
[85] 2016-10-14
[86] 2015-04-08 (PCT/US2015/024836)
[87] (WO2015/164072)
[30] US (14/258,568) 2014-04-22

[11] **2,946,055**
[13] C

- [51] **Int.Cl. C09D 163/00 (2006.01) C09D 5/18 (2006.01)**
[25] EN
[54] **WATER-BASED EPOXY FORMULATIONS FOR APPLIED FIREPROOFING**
[54] **FORMULATIONS D'EPOXY A BASE D'EAU POUR IGNIFIGATION APPLIQUEE**
[72] KREH, ROBERT PAUL, US
[73] UNITED STATES MINERAL PRODUCTS COMPANY, US
[85] 2016-10-14
[86] 2015-04-15 (PCT/US2015/025982)
[87] (WO2015/160959)
[30] US (61/979,802) 2014-04-15

[11] **2,946,153**
[13] C

- [51] **Int.Cl. C12Q 1/26 (2006.01) G16B 35/20 (2019.01) G16C 20/64 (2019.01) A61K 31/4439 (2006.01) A61P 25/00 (2006.01) C12N 9/02 (2006.01) C40B 30/08 (2006.01)**
[25] EN
[54] **USE OF KNOWN COMPOUNDS AS D-AMINO ACID OXIDASE INHIBITORS**
[54] **UTILISATION DE COMPOSES CONNUS COMME INHIBITEURS DE D-ACIDE AMINE OXYDASE (DAAO)**
[72] TSENG, YUFENG JANE, US
[72] LIU, YU-LI, TW
[72] SUN, CHUNG-MING, TW
[72] HWU, HAI-GWO, TW
[72] LIU, CHIH-MIN, TW
[72] LAI, WEN-SUNG, TW
[73] TSENG, YUFENG JANE, US
[73] NATIONAL TAIWAN UNIVERSITY, CN
[73] NATIONAL HEALTH RESEARCH INSTITUTES, TW
[73] NATIONAL YANG MING CHIAO TUNG UNIVERSITY, TW
[85] 2016-10-17
[86] 2015-04-30 (PCT/US2015/028385)
[87] (WO2015/168346)
[30] US (61/986,480) 2014-04-30

[11] **2,946,225**
[13] C

- [51] **Int.Cl. E21B 33/12 (2006.01) E21B 23/02 (2006.01) E21B 33/03 (2006.01) E21B 34/02 (2006.01)**
[25] EN
[54] **WELLHEAD PORT PLUG ASSEMBLY**
[54] **ENSEMBLE BOUCHON D'ORIFICE DE TETE DE Puits**
[72] GUEDES, LINO, NO
[72] BOLAGER, ANDRE, NO
[72] KLEPPA, ERLING, NO
[72] HARESTAD, KRISTIAN, NO
[72] KVASNES, TROND, NO
[73] PETROLEUM TECHNOLOGY COMPANY AS, NO
[85] 2016-10-18
[86] 2015-04-24 (PCT/EP2015/058880)
[87] (WO2015/162241)
[30] NO (20140536) 2014-04-25

[11] **2,946,250**
[13] C

- [51] **Int.Cl. F16C 29/00 (2006.01) F16C 29/02 (2006.01)**
[25] EN
[54] **LINEAR BEARING**
[54] **PALIER LINEAIRE**
[72] REVELES, JUAN, GB
[72] FRAUX, VINCENT, GB
[73] OXFORD SPACE SYSTEMS LIMITED, GB
[85] 2016-10-18
[86] 2015-05-14 (PCT/GB2015/051424)
[87] (WO2015/173573)
[30] GB (1408622.7) 2014-05-15

[11] **2,947,413**
[13] C

- [51] **Int.Cl. A61B 17/68 (2006.01) A61B 17/88 (2006.01)**
[25] EN
[54] **DEVICE FOR FACILITATING ARTIFICIAL PROSTHESIS INSTALLATION WITH MEASURED APPLIED PRESSURE AND METHOD THEREFOR**
[54] **DISPOSITIF POUR FACILITER L'INSTALLATION DE PROTHESE ARTIFICIELLE AU MOYEN D'UNE PRESSION APPLIQUEE MESUREE, ET PROCEDE POUR CELUI-CI**
[72] BOYER, JOHN STUART, US
[72] ANDERSON, BRUCE REED, US
[73] BOYER ANDERSON, LLC, US
[85] 2016-10-28
[86] 2015-04-27 (PCT/US2015/027723)
[87] (WO2015/167987)
[30] US (61/985,175) 2014-04-28
[30] US (62/031,946) 2014-08-01
[30] US (14/575,160) 2014-12-18

**Canadian Patents Issued
June 14, 2022**

[11] **2,948,040**
[13] C

[51] **Int.Cl. F16F 15/023 (2006.01) B23B 41/02 (2006.01) B23B 49/02 (2006.01) B23D 77/00 (2006.01) F16F 15/08 (2006.01)**

[25] FR

[54] **ANTI-VIBRATION DEVICE FOR SHAFT MACHINING**

[54] **DISPOSITIF ANTI-VIBREUR POUR L'USINAGE D'ARBRE**

[72] DEJAUNE, CLAUDE, FR

[72] DOUADY, CYRIL, FR

[73] SAFRAN AIRCRAFT ENGINES, FR

[85] 2016-10-04

[86] 2015-04-08 (PCT/FR2015/050906)

[87] (WO2015/155469)

[30] FR (1453079) 2014-04-08

[11] **2,948,185**
[13] C

[51] **Int.Cl. E21B 21/08 (2006.01) E21B 47/06 (2012.01)**

[25] EN

[54] **METHODS FOR OPERATING WELLBORE DRILLING EQUIPMENT BASED ON WELLBORE CONDITIONS**

[54] **PROCEDES DE FONCTIONNEMENT D'UN EQUIPEMENT POUR FORAGE DE Puits EN FONCTION DE CONDITIONS DE Puits DE FORAGE**

[72] TURNER, REBEKAH, US

[72] VEENINGEN, DAAN, US

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

[85] 2016-11-04

[86] 2015-05-12 (PCT/US2015/030335)

[87] (WO2015/175508)

[30] US (61/991,989) 2014-05-12

[11] **2,948,210**
[13] C

[51] **Int.Cl. B65C 9/00 (2006.01) B65C 9/18 (2006.01)**

[25] EN

[54] **LABELING MACHINE**

[54] **MACHINE D'ETIQUETAGE**

[72] BARDINI, RICCARDO, IT

[73] P.E. LABELLERS S.P.A., IT

[85] 2016-11-07

[86] 2015-05-06 (PCT/EP2015/059977)

[87] (WO2015/173091)

[30] IT (VR2014A000132) 2014-05-15

[11] **2,948,588**
[13] C

[51] **Int.Cl. E06B 9/17 (2006.01)**

[25] EN

[54] **SEALING DEVICE FOR SEALING A GAP BETWEEN A LINTEL AND A ROLLER SHUTTER AND A ROLLER SHUTTER WITH SUCH A SEALING DEVICE**

[54] **DISPOSITIF D'ETANCHEITE DESTINE A SCELLER UN ESPACE ENTRE UN LINTEAU ET UN VOLET ROULANT ET VOLET ROULANT COMPRENANT UN TEL DISPOSITIF D'ETANCHEITE**

[72] FREDE, FRIEDHELM, DE

[73] ASSA ABLOY ENTRANCE SYSTEMS AB, SE

[85] 2016-11-09

[86] 2015-05-28 (PCT/EP2015/061862)

[87] (WO2015/197303)

[30] SE (1450790-9) 2014-06-26

[11] **2,948,734**
[13] C

[51] **Int.Cl. A47J 31/36 (2006.01) A47J 31/60 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR PREPARING A BREWED BEVERAGE**

[54] **PROCEDE ET DISPOSITIF DE PREPARATION D'UNE BOISSON INFUSEE**

[72] HESSELBROCK, KATRIN, DE

[72] NEUHAUS, SVEN, DE

[72] PAHNKE, JAN, DE

[72] SCHANDL, GEROLD, DE

[72] KOHLER, ROBERT, DE

[72] UNGERER, MARKUS, DE

[72] WEBER, THOMAS, DE

[73] MELITTA SINGLE PORTIONS GMBH & CO. KG, DE

[85] 2016-11-10

[86] 2015-06-03 (PCT/EP2015/062356)

[87] (WO2016/005110)

[30] DE (10 2014 109 765.3) 2014-07-11

[11] **2,949,345**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) C07H 21/02 (2006.01)**

[25] EN

[54] **SMALL INTERFERING RNA (SIRNA) FOR THE THERAPY OF TYPE 2 (ADO2) AUTOSOMAL DOMINANT OSTEOPELOSIS CAUSED BY CLCN7 (ADO2 CLCN7-DEPENDENT) GENE MUTATION**

[54] **PETIT ARN INTERFERENT (ARNSI) UTILISABLE EN VUE DU TRAITEMENT DE L'OSTEOPOROSE AUTOSOMIQUE DOMINANTE DE TYPE 2 (ADO2) PROVOQUEE PAR UNE MUTATION DU GENE CLCN7 (ADO2 DEPENDANT DE C LCN7)**

[72] TETI, ANNA MARIA, IT

[72] RUCCI, NADIA, IT

[72] CAPULLI, MATTIA, IT

[72] MAURIZI, ANTONIO, IT

[73] UNIVERSITA DEGLI STUDI DELL'AQUILA, IT

[85] 2016-11-16

[86] 2015-05-21 (PCT/IB2015/053730)

[87] (WO2015/177743)

[30] IT (RM2014A000272) 2014-05-23

[11] **2,949,440**
[13] C

[51] **Int.Cl. F23C 10/04 (2006.01) B01J 8/26 (2006.01) C10J 3/00 (2006.01) F28C 3/12 (2006.01) F28D 13/00 (2006.01) F28D 19/00 (2006.01)**

[25] FR

[54] **PROCESS AND APPARATUS FOR CHEMICAL LOOPING REDOX COMBUSTION WITH CONTROL OF THE HEAT EXCHANGES**

[54] **PROCEDE ET INSTALLATION DE COMBUSTION PAR OXYDO-REDUCTION EN BOUCLE CHIMIQUE AVEC UN CONTROLE DES ECHANGES DE CHALEUR**

[72] YAZDANPANAH, MAHDI, FR

[72] GAUTHIER, THIERRY, FR

[72] GUILLOU, FLORENT, FR

[73] IFP ENERGIES NOUVELLES, FR

[73] TOTAL RAFFINAGE CHIMIE, FR

[85] 2016-11-17

[86] 2015-06-18 (PCT/EP2015/063745)

[87] (WO2015/193450)

[30] FR (1455668) 2014-06-19

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[11] **2,950,156**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 43/11 (2006.01) E21B 43/114 (2006.01)**

[25] EN

[54] **REFRACTURING AN ALREADY FRACTURED BOREHOLE**

[54] **REFRACTURATION D'UN TROU DE FORAGE DEJA FRACTURE**

[72] RICHARD, BENNETT M., US

[72] WOOD, EDWARD T., US

[73] BAKER HUGHES INCORPORATED, US

[85] 2016-11-23

[86] 2015-06-04 (PCT/US2015/034234)

[87] (WO2015/187973)

[30] US (14/298,287) 2014-06-06

[11] **2,950,454**
[13] C

[51] **Int.Cl. A23G 9/16 (2006.01) A23G 9/28 (2006.01) A23G 9/48 (2006.01) A23G 9/10 (2006.01) A23G 9/50 (2006.01)**

[25] EN

[54] **APPARATUS AND PROCESS FOR THE MANUFACTURE OF A FROZEN CONFECTION**

[54] **APPAREIL ET PROCEDE POUR LA FABRICATION DE CONFISERIE CONGEELEE**

[72] FARINA, ANTONIO, IT

[73] UNILEVER IP HOLDINGS B.V., NL

[85] 2016-11-28

[86] 2015-05-12 (PCT/EP2015/060458)

[87] (WO2015/180957)

[30] EP (14170641.6) 2014-05-30

[11] **2,950,832**
[13] C

[51] **Int.Cl. B05B 11/00 (2006.01)**

[25] FR

[54] **DEVICE FOR PACKAGING AND DISPENSING PASTE PRODUCTS**

[54] **DISPOSITIF DE CONDITIONNEMENT ET DE DISTRIBUTION DE PRODUITS PATEUX**

[72] TABERLET, JEAN-PHILIPPE, FR

[72] PUVILAND, PATRICE, FR

[73] LABLABO, FR

[85] 2016-11-30

[86] 2015-04-14 (PCT/FR2015/050992)

[87] (WO2015/189489)

[30] FR (1455234) 2014-06-10

[11] **2,950,949**
[13] C

[51] **Int.Cl. A01K 11/00 (2006.01) A01K 13/00 (2006.01) A01K 29/00 (2006.01)**

[25] EN

[54] **DATA NETWORK FOR MONITORING ANIMALS**

[54] **RESEAU DE DONNEES POUR LA SURVEILLANCE D'ANIMAUX**

[72] AUER, WOLFGANG, AT

[73] SMARTBOW GMBH, AT

[85] 2016-12-01

[86] 2015-06-05 (PCT/AT2015/000084)

[87] (WO2015/184479)

[30] AT (A 447/2014) 2014-06-05

[30] AT (A 718/2014) 2014-09-22

[11] **2,951,380**
[13] C

[51] **Int.Cl. B05B 3/02 (2006.01)**

[25] EN

[54] **MISTING AND ATOMIZATION SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE NEBULISATION ET D'ATOMISATION**

[72] TENCH, THEODORE, IL

[73] SNAPP IP LTD., IL

[85] 2016-12-06

[86] 2015-06-09 (PCT/US2015/034809)

[87] (WO2015/191516)

[30] US (14/301,466) 2014-06-11

[11] **2,951,462**
[13] C

[51] **Int.Cl. B23F 5/16 (2006.01) B23F 19/00 (2006.01)**

[25] EN

[54] **METHOD FOR INCORPORATING UNDERCUTS IN TOOTH FLANKS OF TEETH OF TOOTHED WHEELS**

[54] **PROCEDE DE FORMATION DE CONTRE-DEPOUILLES DANS LES FLANCS DE DENTS DE ROUES DENTEES**

[72] SOBCZYK, MARCEL, DE

[73] PROFILATOR GMBH & CO. KG, DE

[85] 2016-12-07

[86] 2015-03-18 (PCT/EP2015/055661)

[87] (WO2015/192979)

[30] DE (10 2014 108 438.1) 2014-06-16

[11] **2,951,711**
[13] C

[51] **Int.Cl. H04L 45/12 (2022.01) H04L 45/30 (2022.01) H04L 45/44 (2022.01) H04L 67/1004 (2022.01) H04L 12/28 (2006.01) H04L 67/568 (2022.01)**

[25] EN

[54] **MULTI-PEER ROUTING IN A NETWORK**

[54] **ROUTAGE ENTRE HOMOLOGUES MULTIPLES DANS UN RESEAU**

[72] MASLAK, JOEL C., US

[73] LEVEL 3 COMMUNICATIONS, LLC, US

[85] 2016-12-08

[86] 2015-06-10 (PCT/US2015/035156)

[87] (WO2015/191751)

[30] US (14/302,215) 2014-06-11

[11] **2,951,880**
[13] C

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

[25] EN

[54] **TWO STAGE ANCHOR AND MITRAL VALVE ASSEMBLY**

[54] **ENSEMBLE VALVE MITRALE A ANCRE A IMPLANTER EN DEUX ETAPES**

[72] GANESAN, KAVITHA, US

[72] VENKATASUBRAMANIAN, RAMJI T., US

[72] FORSBERG, ANDREW T., US

[72] PETERSON, ALEX A., US

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

[72] MORTIER, TODD J., US

[73] CAISSON INTERVENTIONAL, LLC, US

[85] 2016-12-09

[86] 2015-06-11 (PCT/US2015/035303)

[87] (WO2015/191839)

[30] US (62/011,164) 2014-06-12

[30] US (14/674,691) 2015-03-31

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[11] **2,952,069**
[13] C

[51] **Int.Cl. A61K 9/06 (2006.01)**
[25] EN
[54] **SMALL MOLECULE ANTI-SCARRING AGENTS**
[54] **AGENTS ANTI-CICATRICES FORMES DE PETITES MOLECULES**
[72] PHIPPS, RICHARD P., US
[72] WOELLER, COLLYNN, US
[73] UNIVERSITY OF ROCHESTER, US
[85] 2016-12-12
[86] 2015-06-16 (PCT/US2015/036059)
[87] (WO2015/195684)
[30] US (62/012,602) 2014-06-16
[30] US (62/114,932) 2015-02-11

[11] **2,952,139**
[13] C

[51] **Int.Cl. C09K 5/16 (2006.01)**
[25] EN
[54] **HYGROSCOPIC COMPOSITE MATERIAL**
[54] **MATERIAU COMPOSITE HYGROSCOPIQUE**
[72] COURBON, EMILIE, BE
[72] FRERE, MARC, BE
[72] HEYMANS, NICOLAS, BE
[72] D'ANS, PIERRE, BE
[73] UNIVERSITE DE MONS, BE
[73] UNIVERSITE LIBRE DE BRUXELLES, BE
[85] 2016-12-13
[86] 2015-06-25 (PCT/EP2015/064449)
[87] (WO2015/197788)
[30] GB (1411286.6) 2014-06-25
[30] GB (1417530.1) 2014-10-03

[11] **2,952,265**
[13] C

[51] **Int.Cl. A61F 5/08 (2006.01) A61F 5/56 (2006.01)**
[25] EN
[54] **NASAL DILATOR DEVICES**
[54] **DILATATEURS NASAUX**
[72] PEPPER, ELIZABETH JANE, AU
[72] JOHNSON, MICHAEL RALPH BURGESS, AU
[72] ARMISTEAD, JUSTIN ROBERT, AU
[72] HARTLEY, TOBY JAMES, AU
[72] KOTSIPOULOS, GEORGE, AU
[73] ASAP BREATHEASSIST PTY LTD, AU
[85] 2016-12-14
[86] 2015-01-30 (PCT/AU2015/050032)
[87] (WO2015/192173)
[30] AU (PCT/AU2014/000649) 2014-06-20

[11] **2,952,323**
[13] C

[51] **Int.Cl. G01N 27/403 (2006.01)**
[25] EN
[54] **END-FILL ELECTROCHEMICAL-BASED ANALYTICAL TEST STRIP WITH PERPENDICULAR INTERSECTING SAMPLE-RECEIVING CHAMBERS**
[54] **BANDELETTE REACTIVE ANALYTIQUE A BASE DE PRODUIT ELECTROCHIMIQUE DE REMPLISSAGE D'EXTREMITÉ AVEC CHAMBRES DE RECEPTION D'ECHANTILLON A INTERSECTION PERPENDICULAIRE**
[72] COOPER, ALEXANDER, GB
[72] SMITH, ANTONY, GB
[72] WHYTE, LYNSEY, GB
[72] WHITEHEAD, NEIL, GB
[72] MCCOLL, DAVID, GB
[72] GUTHRIE, BRIAN, GB
[72] LLOYD, TIMOTHY, GB
[72] MASSARI, ROSSANO, IT
[72] FORLANI, CHRISTIAN, IT
[73] LIFESCAN IP HOLDINGS, LLC, US
[85] 2016-12-14
[86] 2015-06-23 (PCT/EP2015/064151)
[87] (WO2015/197645)
[30] US (14/313,377) 2014-06-24

[11] **2,953,051**
[13] C

[51] **Int.Cl. H01L 21/52 (2006.01) H01L 31/0203 (2014.01) H01L 31/08 (2006.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING A DEVICE COMPRISING A HERMETICALLY SEALED VACUUM HOUSING AND GETTER**
[54] **PROCEDE DE FABRICATION D'UN DISPOSITIF COMPRENANT UN BOITIER HERMETIQUE SOUS VIDE ET UN GETTER**
[72] FAVIER, JEROME, FR
[72] BUNEL, DAVID, FR
[73] ULIS, FR
[85] 2016-12-20
[86] 2015-07-07 (PCT/FR2015/051869)
[87] (WO2016/009126)
[30] FR (1456961) 2014-07-18

[11] **2,953,215**
[13] C

[51] **Int.Cl. A61B 17/22 (2006.01) A61B 17/3207 (2006.01) A61F 2/24 (2006.01)**
[25] EN
[54] **TRANSCATHETER DEVICE FOR THE ABLATION OF CALCIFIED TISSUE FROM AORTIC VALVE LEAFLETS**
[54] **DISPOSITIF TRANSCATHETER POUR L'ABLATION DE TISSUS CALCIFIES AU NIVEAU DES VOILETS D'UNE VALVE AORTIQUE**
[72] VOLA, MARCO, FR
[72] PASQUINO, ENRICO, IT
[72] PAIN, BERNARD, FR
[73] CENTRE HOSPITALIER UNIVERSITAIRE DE SAINT-ETIENNE, FR
[73] AORTICLAB S.R.L., IT
[85] 2016-12-02
[86] 2015-06-04 (PCT/FR2015/051491)
[87] (WO2015/185872)
[30] FR (1455146) 2014-06-05

[11] **2,953,568**
[13] C

[51] **Int.Cl. D21C 3/02 (2006.01) D21H 21/32 (2006.01)**
[25] EN
[54] **METHOD AND CHEMICAL COMPOSITIONS TO IMPROVE EFFICIENCY OF CHEMICAL PULPING**
[54] **PROCEDE ET COMPOSITIONS CHIMIQUES D'AMELIORATION DE L'EFFICACITE DE REDUCTION EN PATE CHIMIQUE**
[72] DUGGIRALA, PRASAD Y., US
[72] SHEVCHENKO, SERGEY M., US
[73] NALCO COMPANY, US
[85] 2016-12-22
[86] 2015-07-10 (PCT/US2015/039958)
[87] (WO2016/010854)
[30] US (14/330,958) 2014-07-14

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[11] **2,954,437**
[13] C

[51] **Int.Cl. G01D 9/02 (2006.01) B23K 37/00 (2006.01) G06Q 30/00 (2012.01) H04L 12/16 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEM FOR PASSIVATION MEASUREMENTS AND MANAGEMENT**

[54] **PROCEDES ET SYSTEME POUR MESURES DE PASSIVATION ET GESTION**

[72] LAPOINTE, PATRICK, CA
[72] SOMERS, PIERRE, CA
[73] WALTER SURFACE TECHNOLOGIES INC., CA

[85] 2017-01-06
[86] 2015-06-25 (PCT/CA2015/050593)
[87] (WO2016/004523)
[30] US (62/021,575) 2014-07-07

[11] **2,954,930**
[13] C

[51] **Int.Cl. B65D 47/26 (2006.01) B65D 47/32 (2006.01) B67C 9/00 (2006.01) F16N 3/04 (2006.01)**

[25] EN

[54] **POURING CLOSURE FOR THE SPOUT OF A CANISTER OR ANY CONTAINER FOR CONTROLLED MULTI-SIDE POURING**

[54] **BOUCHON VERSEUR POUR LE MANCHON D'UN JERRICAN OU D'UN RECIPIENT QUELCONQUE POUR LE VERSEMENT CONTROLE VERS PLUSIEURS COTES**

[72] WOHLGENANNT, HERBERT, CH
[73] CAPARTIS AG, CH

[85] 2017-01-19
[86] 2015-06-18 (PCT/EP2015/063702)
[87] (WO2016/000975)
[30] CH (1013/14) 2014-07-03

[11] **2,955,986**
[13] C

[51] **Int.Cl. B32B 15/04 (2006.01) C23F 15/00 (2006.01) F16K 5/06 (2006.01) F16K 15/04 (2006.01)**

[25] EN

[54] **PROTECTIVE COMPOSITE SURFACES**

[54] **SURFACES COMPOSITES PROTECTRICES**

[72] KIM, GEORGE, CA
[73] KIM, GEORGE, CA

[85] 2017-01-23
[86] 2015-07-22 (PCT/CA2015/050689)
[87] (WO2016/011556)
[30] US (62/028,142) 2014-07-23

[11] **2,956,028**
[13] C

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

[25] EN

[54] **A METHOD FOR FUSING OR CONTACTING REACTOR AND REAGENT DROPLETS IN A MICROFLUIDIC OR MILLIFLUIDIC DEVICE**

[54] **PROCEDE DE FUSION OU DE MISE EN CONTACT DE GOUTTELETTES DE REACTEUR ET DE REACTIF DANS UN DISPOSITIF MICROFLUIDIQUE OU MILLIFLUIDIQUE**

[72] GARNICA RODRIGUEZ, JAIRO IVAN, FR
[72] BOITARD, LAURENT, FR
[72] DREVELLE, ANTOINE SERGE DOMINIQUE, FR
[72] BREMOND, NICOLAS PIERRE, FR
[72] BIBETTE, JEROME, FR
[73] ETABLISSEMENTS J. SOUFFLET, FR

[73] ECOLE SUPERIEURE DE PHYSIQUE ET DE CHIMIE INDUSTRIELLES DE LA VILLE DE PARIS, FR

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.R.S.), FR

[73] SORBONNE UNIVERSITE, FR

[85] 2017-01-23
[86] 2015-08-05 (PCT/EP2015/068014)
[87] (WO2016/020414)
[30] EP (14306248.7) 2014-08-06

[11] **2,956,295**
[13] C

[51] **Int.Cl. B65B 3/32 (2006.01) B65B 3/12 (2006.01) B65B 37/06 (2006.01) B65B 37/20 (2006.01)**

[25] EN

[54] **METHOD FOR PACKAGING LIQUID OR PASTY PRODUCTS AND PACKAGING MACHINE SUITABLE FOR THIS PURPOSE**

[54] **PROCEDE D'EMBALLAGE DE PRODUITS LIQUIDES OU PATEUX ET MACHINE D'EMBALLAGE PREVUE A CET EFFET**

[72] FRANZ, MAIK, DE
[73] BENHIL GMBH, DE

[85] 2017-01-24
[86] 2015-07-29 (PCT/EP2015/001559)
[87] (WO2016/015861)
[30] DE (10 2014 011 075.3) 2014-07-30

[11] **2,956,815**
[13] C

[51] **Int.Cl. A61G 3/08 (2006.01) A61G 3/00 (2006.01)**

[25] EN

[54] **COT FASTENING SYSTEM HAVING A CRASH STABLE, COT FASTENER TRACK AND METHOD OF AFFIXING AN EMERGENCY COT THERETO**

[54] **SYSTEME DE FIXATION DE CIVIERE COMPORTANT UN ENSEMBLE RAILS DE FIXATION DE CIVIERE ANTI-ACCIDENT ET PROCEDE DE FIXATION D'UNE CIVIERE DE SECOURS SUR CELUI-CI**

[72] VALENTINO, NICHOLAS V., US
[72] WELLS, TIMOTHY R., US
[72] WAY, CHRISTOPHER, US
[72] CAMBRIDGE, ALAN RAYMOND, AU

[72] BROADLEY, GAVIN LEE, AU
[73] FERNO-WASHINGTON, INC., US

[85] 2017-01-30
[86] 2015-08-19 (PCT/US2015/045832)
[87] (WO2016/028856)
[30] US (62/039,005) 2014-08-19
[30] US (62/115,847) 2015-02-13

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[11] **2,957,344**
[13] C

[51] **Int.Cl. E04B 1/74 (2006.01) E04F 21/06 (2006.01)**
[25] EN
[54] **UNBONDED LOOSEFILL INSULATION**
[54] **ISOLANT EN VRAC NON LIE**
[72] COOK, DAVID MICHAEL, US
[72] EVANS, MICHAEL EUGENE, US
[72] PHILLIPS, STEPHEN, US
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[86] (2957344)
[87] (2957344)
[22] 2017-02-08
[30] US (62/292,492) 2016-02-08

[11] **2,958,703**
[13] C

[51] **Int.Cl. E21B 15/00 (2006.01) E21B 7/00 (2006.01) E21B 11/00 (2006.01) E21D 20/00 (2006.01)**
[25] EN
[54] **IMPROVED SELF-SUPPORTING PNEUMATIC HAMMER POSITIONER WITH UNIVERSAL JOINT**
[54] **POSITIONNEUR AUTOPORTEUR AMELIORE A JOINT UNIVERSEL DE MACHINE A FORER PNEUMATIQUE**
[72] MORISSETTE, DANNY, CA
[72] SMITH, ERICK, CA
[72] GUIMOND, LUC, CA
[72] BLANCHET, GHISLAIN, CA
[72] JULIEN, GUILLAUME, CA
[72] TREMBLAY, GUY, CA
[72] LALONDE, REJEAN, CA
[72] MAGNY, JEAN-PIERRE, CA
[72] LAROCHE, ANTHONY, CA
[72] CHROUROU, YOUSSEF, CA
[72] JULIEN, ALAIN, CA
[72] LALIBERTE, STEVE, CA
[72] PAQUIN, RAPHAEL, CA
[72] SIMARD, MAXIME, CA
[72] TRUDEL, CLAUDE, CA
[72] MENARD, MARTIN, CA
[72] MANSEAU, TOMMY, CA
[73] R.N.P. INDUSTRIES INC., CA
[85] 2017-02-20
[86] 2015-08-17 (PCT/CA2015/000464)
[87] (WO2016/026022)
[30] US (62/038,463) 2014-08-18

[11] **2,958,718**
[13] C

[51] **Int.Cl. E21B 7/06 (2006.01) E21B 7/08 (2006.01)**
[25] EN
[54] **HYDRAULIC DRILLING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE FORAGE HYDRAULIQUE**
[72] MCCORMACK, DANIEL ROBERT, CA
[72] MCDUGALL, MYLES BRIAN, CA
[72] STAINTHORPE, BRIAN KENNETH, CA
[73] PETROJET CANADA INC., CA
[85] 2017-02-21
[86] 2014-08-07 (PCT/CA2014/050744)
[87] (WO2015/192202)
[30] US (62/013,134) 2014-06-17

[11] **2,958,999**
[13] C

[51] **Int.Cl. D21H 27/40 (2006.01) B31F 1/07 (2006.01) D21H 27/30 (2006.01)**
[25] EN
[54] **EMBOSSSED MULTILAYERED CELLULOSE PRODUCT AND MEANS FOR THE PRODUCTION THEREOF**
[54] **PRODUIT EN CELLULOSE MULTICOUCHE GAUFRE ET SON MOYEN DE FABRICATION**
[72] STEFANI, EMI, IT
[73] SOFIDEL S.P.A., IT
[85] 2017-02-22
[86] 2015-08-06 (PCT/IB2015/055968)
[87] (WO2016/030784)
[30] IT (FI2014A000193) 2014-08-29

[11] **2,962,288**
[13] C

[51] **Int.Cl. B65H 75/30 (2006.01) B65H 75/02 (2006.01) B65H 75/08 (2006.01) B65H 75/14 (2006.01) F16L 55/165 (2006.01) F16L 55/18 (2006.01) E21B 19/22 (2006.01)**
[25] EN
[54] **CIPP LINER REEL SYSTEM**
[54] **SYSTEME D'ENROULEUR DE REVETEMENT CIPP**
[72] STROM, GARY H., US
[72] STROM, BRANDON G., US
[73] SUBSURFACE, INC., US
[86] (2962288)
[87] (2962288)
[22] 2017-03-29
[30] US (15463228) 2017-03-20

[11] **2,962,941**
[13] C

[51] **Int.Cl. C12N 9/00 (2006.01) C12Q 1/6844 (2018.01) C07K 14/01 (2006.01) C12N 15/00 (2006.01) C12N 15/34 (2006.01) C12N 15/52 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **RECOMBINASE MUTANTS**
[54] **MUTANTS DE RECOMBINASES**
[72] BOMATI, ERIN, US
[72] KELLINGER, MATTHEW WILLIAM, US
[72] BOUTELL, JONATHAN MARK, GB
[73] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2017-03-28
[86] 2015-09-29 (PCT/US2015/053012)
[87] (WO2016/054088)
[30] US (62/057,056) 2014-09-29

[11] **2,964,183**
[13] C

[51] **Int.Cl. A61B 5/103 (2006.01) A61B 5/22 (2006.01) A61H 19/00 (2006.01) A61H 21/00 (2006.01) A63B 23/20 (2006.01)**
[25] EN
[54] **AN INTRA VAGINAL DEVICE TO AID IN TRAINING AND DETERMINING MUSCLE STRENGTH**
[54] **DISPOSITIF INTRA-VAGINAL POUR AIDER L'ENTRAINEMENT ET LA DETERMINATION DE FORCE MUSCULAIRE**
[72] BARTLETT, PETER, AU
[73] ANALYTICA LIMITED, AU
[85] 2017-04-10
[86] 2015-10-16 (PCT/AU2015/000619)
[87] (WO2016/119002)
[30] AU (2015900255) 2015-01-29

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[11] **2,964,626**
[13] C

[51] **Int.Cl. A61F 2/08 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR REPAIRING SOFT TISSUE AND ATTACHING SOFT TISSUE TO BONE**

[54] **DISPOSITIFS, SYSTEMES ET PROCÉDES POUR REPARER UN TISSU MOU ET FIXER UN TISSU MOU A UN OS**

[72] LINDER, RICHARD J., US
[72] KUBIAK, ERIK N., US
[72] TAYLOR, ROY M., US
[72] EVANS, ZACKERY K., US
[72] COLE, TYLER J., US
[72] MILES, SCOTT D., US
[72] BECK, KENT F., US
[73] CONEXIONS, INC., US
[85] 2017-04-12
[86] 2015-10-16 (PCT/US2015/056059)
[87] (WO2016/061530)
[30] US (62/064,533) 2014-10-16
[30] US (62/094,032) 2014-12-18
[30] US (62/129,742) 2015-03-06
[30] US (62/215,739) 2015-09-09

[11] **2,964,815**
[13] C

[51] **Int.Cl. G01M 15/14 (2006.01)**
[25] FR
[54] **METHOD AND DEVICE FOR MONITORING AN AIRCRAFT ENGINE VANE WHEEL VIA BALANCE POSITION MEASUREMENT**

[54] **PROCEDE ET DISPOSITIF DE SURVEILLANCE D'UNE ROUE AUBAGEE DE MOTEUR D'AERONEF PAR MESURE DE POSITION D'EQUILIBRE**

[72] NICQ, GEOFFROY, FR
[72] GEREZ, VALERIO, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-04-18
[86] 2015-10-15 (PCT/FR2015/052774)
[87] (WO2016/062946)
[30] FR (1460167) 2014-10-22

[11] **2,964,855**
[13] C

[51] **Int.Cl. A41C 3/00 (2006.01) A41C 3/12 (2006.01)**
[25] EN
[54] **BRASSIERE ADAPTED FOR PRACTICING SPORTS**

[54] **SOUTIEN-GORGE PREVU POUR LA PRATIQUE DE SPORTS**

[72] GRAHAM WARD, DANIEL, GB
[72] EDWARD CUCKNELL, ALAN JOHN, GB
[72] SCADDING MOIR, ROBERT, GB
[72] MURPHY, MICHAEL, GB
[73] HANES OPERATIONS EUROPE SAS, FR
[85] 2017-04-18
[86] 2015-10-14 (PCT/IB2015/057889)
[87] (WO2016/059578)
[30] FR (14/60041) 2014-10-17

[11] **2,965,208**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **METHODS FOR DETECTING CARDIAC DAMAGE**

[54] **PROCEDES DE DETECTION D'UNE LESION CARDIAQUE**

[72] YAN, XINHUA, US
[72] CAGGIANO, ANTHONY O., US
[73] ACORDA THERAPEUTICS INC., US
[86] (2965208)
[87] (2965208)
[22] 2008-05-12
[62] 2,686,959
[30] US (60928541) 2007-05-10

[11] **2,965,233**
[13] C

[51] **Int.Cl. C23C 22/05 (2006.01) C23C 22/82 (2006.01) C23F 11/18 (2006.01)**
[25] EN
[54] **CORROSION INHIBITOR-INCORPORATED LAYERED DOUBLE HYDROXIDE AND SOL-GEL COATING COMPOSITIONS AND RELATED PROCESSES**

[54] **COMPOSITIONS DE REVETEMENT D'HYDROXYDE DOUBLE COUCHE A INHIBITEUR DE CORROSION INCORPORE ET DE SOL-GEL, ET PROCÉDES ASSOCIES**

[72] IJERI, VIJAYKUMAR S., US
[72] PRAKASH, OM, US
[72] GAYDOS, STEPHEN P., US
[72] SUBASRI, RAGHAVAN, US
[72] SOMA RAJU, KALIDINDI RAMACHANDRA, US
[72] REDDY, DENDI SREENIVAS, US
[73] THE BOEING COMPANY, US
[86] (2965233)
[87] (2965233)
[22] 2017-04-24
[30] US (62/364,678) 2016-07-20
[30] US (15/231,668) 2016-08-08

[11] **2,966,099**
[13] C

[51] **Int.Cl. G01D 21/02 (2006.01) H04W 4/02 (2018.01) H04W 84/18 (2009.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR SENSING ENVIRONMENTAL CONDITIONS AND ALERTING A USER IN RESPONSE**

[54] **SYSTEMES, METHODES ET APPAREIL DE DETECTION DES CONDITIONS ENVIRONNEMENTALES ET D'ALERTE D'UN UTILISATEUR**

[72] GLATFELTER, JOHN WILLIAM, US
[72] LAUGHLIN, BRIAN DALE, US
[73] THE BOEING COMPANY, US
[86] (2966099)
[87] (2966099)
[22] 2017-05-02
[30] US (15/179,397) 2016-06-10

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[11] **2,966,306**
[13] C

[51] **Int.Cl. G01M 15/02 (2006.01)**
[25] FR
[54] **TOOL FOR VALIDATING A SYSTEM FOR MONITORING AN AIRCRAFT ENGINE**
[54] **OUTIL DE VALIDATION D'UN SYSTEME DE SURVEILLANCE D'UN MOTEUR D'AERONEF**
[72] LACAILLE, JEROME HENRI NOEL, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-04-28
[86] 2015-10-28 (PCT/FR2015/052905)
[87] (WO2016/071605)
[30] FR (14 60668) 2014-11-05

[11] **2,967,641**
[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **TRAINING INDUCTIVE LOGIC PROGRAMMING ENHANCED DEEP BELIEF NETWORK MODELS FOR DISCRETE OPTIMIZATION**
[54] **MODELE DE RESEAU DE CROYANCE PROFONDE AMELIOREE PROGRAMMANT UNE LOGIQUE INTUITIVE D'APPRENTISSAGE DESTINE A UNE OPTIMISATION DISCRETE**
[72] SAIKIA, SARMIMALA, IN
[72] VIG, LOVEKESH, IN
[72] SHROFF, GAUTAM, IN
[72] AGARWAL, PUNEET, IN
[72] RAWAT, RICHA, IN
[72] SRINIVASAN, ASHWIN, IN
[73] TATA CONSULTANCY SERVICES LIMITED, IN
[86] (2967641)
[87] (2967641)
[22] 2017-05-16
[30] IN (201621041570) 2016-12-05

[11] **2,968,054**
[13] C

[51] **Int.Cl. A61K 38/38 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C07K 1/16 (2006.01) C07K 14/76 (2006.01)**
[25] EN
[54] **A CXC CHEMOKINE RECEPTOR 4 (CXCR4) ANTAGONISTIC POLYPEPTIDE**
[54] **POLYPEPTIDE ANTAGONISTE DU SOUS-TYPE 4 DU RECEPTEUR DES CHIMIOKINES CXC (CXCR4)**
[72] FORSSMANN, WOLF-GEORG, DE
[72] KIRCHHOFF, FRANK, DE
[72] MUNCH, JAN, DE
[72] STANDKER, LUDGER, DE
[73] PHARIS BIOTEC GMBH, DE
[86] (2968054)
[87] (2968054)
[22] 2008-07-03
[62] 2,691,061
[30] DE (10 2007 030 904.1) 2007-07-03

[11] **2,968,245**
[13] C

[51] **Int.Cl. C22B 3/04 (2006.01) B01D 21/18 (2006.01) C22B 1/00 (2006.01) C22B 3/02 (2006.01) C01G 1/12 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ENHANCED METAL RECOVERY DURING ATMOSPHERIC LEACHING OF METAL SULFIDES**
[54] **SYSTEME ET PROCEDE POUR UNE MEILLEURE RECUPERATION DE METAUX PENDANT LA LIXIVIATION ATMOSPHERIQUE DE SULFURES DE METAUX**
[72] CHAIKO, DAVID J., US
[72] BACZEK, FRANK, US
[72] ROCKS, SARA (SALLY), US
[72] EYZAGUIRRE, CARLOS, US
[73] FLSMIDTH A/S, DK
[85] 2017-05-17
[86] 2015-11-20 (PCT/US2015/061761)
[87] (WO2016/081799)
[30] US (62/082,293) 2014-11-20

[11] **2,969,382**
[13] C

[51] **Int.Cl. A61F 2/00 (2006.01) A61F 2/02 (2006.01) A61F 2/08 (2006.01)**
[25] EN
[54] **PROSTHESIS FOR REPAIRING A HERNIA DEFECT**
[54] **PROTHESE POUR REPARATION D'UN DEFAUT HERNIAIRE**
[72] HAMILTON, JASON, US
[72] FELIX, AUGUSTUS, US
[72] BLACKBURN, ELIZABETH, US
[72] MACDONALD, KERRI, US
[73] C.R. BARD, INC., US
[85] 2017-05-30
[86] 2015-11-30 (PCT/US2015/062960)
[87] (WO2016/111770)
[30] US (14/556,297) 2014-12-01

[11] **2,969,887**
[13] C

[51] **Int.Cl. C11B 3/00 (2006.01) C11B 3/04 (2006.01)**
[25] EN
[54] **REACTOR FOR DEGUMMING**
[54] **REACTEUR DE DEMUCILAGINATION**
[72] KOZYUK, OLEG, US
[72] REIMERS, PETER, US
[72] REINKING, PAUL A., US
[73] ARCHER-DANIELS-MIDLAND COMPANY, US
[85] 2017-06-06
[86] 2014-12-15 (PCT/US2014/070302)
[87] (WO2016/099440)

[11] **2,970,048**
[13] C

[51] **Int.Cl. C12N 9/96 (2006.01)**
[25] EN
[54] **STABLE REACTION MIXTURES FOR NUCLEIC ACID AMPLIFICATION**
[54] **MELANGES REACTIONNELS STABLES POUR AMPLIFICATION DES ACIDES NUCLEIQUES**
[72] MARTINEZ, TOMAS, US
[72] SMITH, EDWARD, US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2017-06-07
[86] 2015-12-18 (PCT/EP2015/080387)
[87] (WO2016/097237)
[30] US (62/094,284) 2014-12-19

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[11] **2,970,750**
[13] C

[51] **Int.Cl. A47J 31/40 (2006.01) A23L 2/00 (2006.01) A23L 2/52 (2006.01) B67D 1/00 (2006.01) B67D 1/08 (2006.01) B67D 3/00 (2006.01)**

[25] EN

[54] **APPARATUS FOR DISPENSING MIXED BEVERAGES FROM FROZEN INGREDIENTS**

[54] **APPAREIL DE DISTRIBUTION DE BOISSONS MELANGEES A PARTIR D'INGREDIENTS CONGELES**

[72] BENEDETTI, LUCA, IT

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

[85] 2017-06-12

[86] 2015-12-22 (PCT/IB2015/059885)

[87] (WO2016/108148)

[30] IT (PN2014A000068) 2014-12-30

[11] **2,972,897**
[13] C

[51] **Int.Cl. H02J 3/24 (2006.01) H02J 3/18 (2006.01) H02J 3/32 (2006.01) H02J 3/46 (2006.01)**

[25] EN

[54] **TRANSIENT POWER STABILIZATION DEVICE WITH ACTIVE AND REACTIVE POWER CONTROL**

[54] **DISPOSITIF DE STABILISATION DE PUISSANCE TRANSITOIRE A REGULATION DE PUISSANCE ACTIVE ET REACTIVE**

[72] YANG, MENGBIN, US

[72] TAIMELA, PASI, US

[72] OLIVO, TONY, US

[72] JOHNSON, ROBERT WILLIAM, US

[72] BALAKRISHNAN, GOPI, US

[73] FLEXGEN POWER SYSTEMS, INC., US

[85] 2017-06-30

[86] 2015-12-22 (PCT/US2015/067347)

[87] (WO2016/109330)

[30] US (62/097,691) 2014-12-30

[11] **2,973,088**
[13] C

[51] **Int.Cl. C23C 28/02 (2006.01) C23F 1/00 (2006.01) H01B 1/02 (2006.01)**

[25] EN

[54] **ANTI-MULTIPACTOR COATING**

[54] **REVETEMENT ANTI-MULTIPACTOR**

[72] MONTERO HERRERO, ISABEL, ES

[72] AGUILERA MAESTRO, LYDYA SABINA, ES

[72] RABOSO GARCIA-BAQUERO, DAVID, ES

[72] WOCHNER, ULRICH, DE

[73] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC), ES

[73] TESAT-SPACECOM GMBH & CO. KG, DE

[85] 2017-03-14

[86] 2015-09-16 (PCT/ES2015/070674)

[87] (WO2016/042192)

[30] ES (P 201431344) 2014-09-16

[11] **2,975,517**
[13] C

[51] **Int.Cl. H04W 88/06 (2009.01) H04W 48/08 (2009.01) H04W 4/80 (2018.01)**

[25] EN

[54] **METHOD AND DEVICES FOR TRANSMITTING A SECURED DATA PACKAGE TO A COMMUNICATION DEVICE**

[54] **METHODE ET DISPOSITIFS DE TRANSMISSION DE GROUPEMENT DE DONNEES SECURISE A UN DISPOSITIF DE COMMUNICATION**

[72] BUCK, MARTIN, CH

[72] PLUSS, PETER, CH

[72] PLUSS, MARCEL, CH

[73] LEGIC IDENTSYSTEMS AG, CH

[86] (2975517)

[87] (2975517)

[22] 2017-08-03

[30] CH (01149/16) 2016-09-06

[11] **2,976,418**
[13] C

[51] **Int.Cl. A61H 35/04 (2006.01) A61M 3/02 (2006.01)**

[25] EN

[54] **NASAL IRRIGATION ASSEMBLY AND SYSTEM**

[54] **ENSEMBLE ET SYSTEME D'IRRIGATION NASALE**

[72] LAYER, JAMES, US

[72] RUBIN, KEITH, US

[72] DESIMONE, ALEX, US

[72] BUZZARD, JON, US

[72] SOLOVAY, KEN, US

[73] PREVA, LLC, US

[85] 2017-08-11

[86] 2015-02-11 (PCT/US2015/015385)

[87] (WO2015/123276)

[30] US (14/180,002) 2014-02-13

[11] **2,976,882**
[13] C

[51] **Int.Cl. C09D 11/30 (2014.01) B41J 2/01 (2006.01) B41M 5/00 (2006.01)**

[25] EN

[54] **PHOTOCURABLE WHITE INK COMPOSITION FOR INKJET PRINTING**

[54] **COMPOSITION D'ENCRE BLANCHE POUR IMPRESSION A JET D'ENCRE DE TYPE PHOTODURCISSABLE**

[72] HIROSE, TADASHI, JP

[72] FUKU, KAZUHIRO, JP

[73] SAKATA INX CORPORATION, JP

[85] 2017-08-16

[86] 2015-12-15 (PCT/JP2015/085005)

[87] (WO2016/136098)

[30] JP (2015-037077) 2015-02-26

[11] **2,978,246**
[13] C

[51] **Int.Cl. C23F 13/10 (2006.01)**

[25] EN

[54] **HIGH EFFICIENCY ANODE**

[54] **ANODE HAUTE EFFICACITE**

[72] MOGHBELI, OMIDREZA, US

[73] MOGHBELI, OMIDREZA, US

[86] (2978246)

[87] (2978246)

[22] 2017-09-05

[30] US (62/383,148) 2016-09-02

[30] US (15/693,282) 2017-08-31

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[11] **2,979,312**
[13] C

[51] **Int.Cl. C22F 1/047 (2006.01)**
[25] EN
[54] **A METHOD OF FORMING PARTS FROM SHEET METAL ALLOY**
[54] **PROCEDE DE FORMATION DE PIECES A PARTIR D'UN ALLIAGE METALLIQUE EN FEUILLE**
[72] ADAM, GEORGE, GB
[72] BALINT, DANIEL, GB
[72] DEAN, TREVOR, GB
[72] DEAR, JOHN, GB
[72] EL FAKIR, OMER, TR
[72] FOSTER, ALISTAIR, GB
[72] LIN, JIANGUO, GB
[72] WANG, LILIANG, GB
[73] IMPERIAL INNOVATIONS LIMITED, GB
[73] IMPRESSION TECHNOLOGIES LIMITED, GB
[85] 2017-09-11
[86] 2015-03-13 (PCT/GB2015/050737)
[87] (WO2015/136299)
[30] GB (1404650.2) 2014-03-14
[30] GB (1503238.6) 2015-02-26

[11] **2,979,352**
[13] C

[51] **Int.Cl. G01M 7/02 (2006.01)**
[25] EN
[54] **TEST FIXTURE FOR TENSIONING AND COOLING AN ARTICLE**
[54] **APPAREIL DE TEST SERVANT A METTRE SOUS TENSION ET REFROIDIR UN ARTICLE**
[72] ANDERSON, DAVID MITCHELL, US
[72] AKDENIZ, AYDIN, US
[72] BERTRAND, BLAKE A., US
[72] HORST, PERRY THOMAS, US
[73] THE BOEING COMPANY, US
[86] (2979352)
[87] (2979352)
[22] 2017-09-14
[30] US (15/386,860) 2016-12-21

[11] **2,980,216**
[13] C

[51] **Int.Cl. G01N 22/00 (2006.01) G01S 13/89 (2006.01)**
[25] FR
[54] **IMAGING DEVICE AND CORRESPONDING IMAGING METHOD**
[54] **DISPOSITIF D'IMAGERIE ET PROCEDE D'IMAGERIE CORRESPONDANT**
[72] CLEMENCE, FLORENT, FR
[72] THOUVENIN, NICOLAS, FR
[72] WERQUIN, MATTHIEU, FR
[72] JONNIAU, SYLVAIN, FR
[72] VELLAS, NICOLAS, FR
[73] MICROWAVE CHARACTERIZATION CENTER, FR
[85] 2017-09-19
[86] 2016-03-25 (PCT/FR2016/050682)
[87] (WO2016/156717)
[30] FR (1552860) 2015-04-02

[11] **2,981,367**
[13] C

[51] **Int.Cl. B03D 1/008 (2006.01) B03D 1/01 (2006.01)**
[25] EN
[54] **COMPOSITION OF FATTY ACIDS AND N-ACYL DERIVATIVES OF SARCOSINE FOR THE IMPROVED FLOTATION OF NONSULFIDE MINERALS**
[54] **COMPOSITION D'ACIDES GRAS ET DE DERIVES D'ACYLE N DE SARCOSINE POUR LA FLOTTATION AMELIOREE DE MINERAIS NON SULFURES**
[72] PEDAIN, KLAUS-ULRICH, DE
[72] PITARCH LOPEZ, JESUS, DE
[72] LIPOWSKY, GUNTER, DE
[72] BEZUIDENHOUT, JACQUES COLLIN, DE
[73] CLARIANT INTERNATIONAL LTD, CH
[85] 2017-09-29
[86] 2016-03-01 (PCT/EP2016/054291)
[87] (WO2016/155966)
[30] EP (15000927.2) 2015-03-30

[11] **2,982,346**
[13] C

[51] **Int.Cl. C21D 6/00 (2006.01) C22C 38/54 (2006.01)**
[25] EN
[54] **IMPROVED EDGE FORMABILITY IN METALLIC ALLOYS**
[54] **APTITUDE AU FORMAGE DE BORD AMELIOREE DANS DES ALLIAGES METALLIQUES**
[72] BRANAGAN, DANIEL JAMES, US
[72] FRERICHS, ANDREW E., US
[72] MEACHAM, BRIAN E., US
[72] JUSTICE, GRANT G., US
[72] BALL, ANDREW T., US
[72] WALLESER, JASON K., US
[72] CLARK, KURTIS, US
[72] TEW, LOGAN J., US
[72] ANDERSON, SCOTT T., US
[72] LARISH, SCOTT, US
[72] CHENG, SHENG, US
[72] GIDDENS, TAYLOR L., US
[72] SERGUEEVA, ALLA V., US
[73] UNITED STATES STEEL CORPORATION, US
[85] 2017-10-10
[86] 2016-04-08 (PCT/US2016/026740)
[87] (WO2016/164788)
[30] US (62/146,048) 2015-04-10
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[11] **2,982,373**
[13] C

[51] **Int.Cl. C08G 73/18 (2006.01) H01M 4/86 (2006.01)**
[25] EN
[54] **HYDROXIDE-STABLE IONENES**
[54] **IONENES STABLES AUX HYDROXYDES**
[72] HOLDCROFT, STEVEN, CA
[72] WRIGHT, ANDREW, CA
[73] SIMON FRASER UNIVERSITY, CA
[85] 2017-10-11
[86] 2015-04-15 (PCT/CA2015/000248)
[87] (WO2015/157848)
[30] US (61/979,989) 2014-04-15

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[11] **2,982,864**
[13] C

- [51] **Int.Cl. C09D 165/00 (2006.01)**
[25] EN
[54] **FLOOR COATING COMPOSITIONS**
[54] **COMPOSITIONS DE REVETEMENT DE SOL**
[72] DE WOLF, ELWIN ALOYSIUS CORNELIUS ADRIANUS, NL
[72] THYS, FERRY LUDOVICUS, BE
[72] BRINKHUIS, RICHARD HENDRIKUS GERRIT, NL
[72] SUBRAMANIAN, RAMESH, US
[72] GESSNER, MICHAEL ANTHONY, US
[72] DOLPHIJN, PAULUS JOZEF, NL
[72] MESTACH, DIRK EMIEL PAULA, BE
[73] ALLNEX NETHERLANDS B.V., NL
[85] 2017-10-16
[86] 2016-04-18 (PCT/EP2016/058483)
[87] (WO2016/166361)
[30] US (62/148,983) 2015-04-17
[30] EP (15169722.4) 2015-05-28

[11] **2,983,062**
[13] C

- [51] **Int.Cl. B22F 3/11 (2006.01) B33Y 10/00 (2015.01) B22F 3/26 (2006.01) C22C 38/22 (2006.01) C22C 38/32 (2006.01) C22C 38/34 (2006.01) C22C 38/36 (2006.01) C22C 38/38 (2006.01)**
[25] EN
[54] **INFILTRATED FERROUS MATERIALS**
[54] **MATERIAUX FERREUX INFILTRES**
[72] TUFFILE, CHARLES D., US
[72] LEMKE, HARALD, US
[72] MACK, PATRICK E., US
[73] MACLEAN-FOGG COMPANY, US
[85] 2017-08-01
[86] 2016-02-03 (PCT/US2016/016356)
[87] (WO2016/126814)
[30] US (62/111,395) 2015-02-03

[11] **2,984,598**
[13] C

- [51] **Int.Cl. C08H 8/00 (2010.01) A23L 29/262 (2016.01) A61K 8/73 (2006.01) A61K 31/717 (2006.01) A61K 47/38 (2006.01) C08J 3/075 (2006.01) C08J 5/18 (2006.01) C08L 97/02 (2006.01) C12N 5/00 (2006.01) D21B 1/06 (2006.01)**
[25] EN
[54] **NANOFIBRILLAR CELLULOSE PRODUCT**
[54] **PRODUIT A BASE DE CELLULOSE NANOFIBRILLAIRE**
[72] NUOPPONEN, MARKUS, FI
[73] UPM-KYMMENE CORPORATION, FI
[85] 2017-10-31
[86] 2015-05-04 (PCT/EP2015/059742)
[87] (WO2016/177395)

[11] **2,985,360**
[13] C

- [51] **Int.Cl. A61F 5/56 (2006.01)**
[25] EN
[54] **ORAL APPLIANCE**
[54] **APPAREIL BUCCAL**
[72] FARRELL, CHRISTOPHER JOHN, AU
[73] MYOSA PTY LTD, AU
[85] 2017-11-21
[86] 2016-05-20 (PCT/AU2016/000174)
[87] (WO2016/187646)
[30] AU (2015901890) 2015-05-22

[11] **2,986,192**
[13] C

- [51] **Int.Cl. A61F 2/32 (2006.01) A61B 17/56 (2006.01) A61F 2/34 (2006.01) A61F 2/36 (2006.01)**
[25] EN
[54] **HIP JOINT DEVICE AND METHOD**
[54] **PROTHESE DE HANCHE ET METHODE ASSOCIEE**
[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[86] (2986192)
[87] (2986192)
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[30] SE (0900981-2) 2009-07-10
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[30] SE (0900959-8) 2007-07-10
[30] SE (0900960-6) 2009-07-10
[30] SE (0900962-2) 2009-07-10
[30] SE (0900963-0) 2009-07-10
[30] SE (0900965-5) 2009-07-10
[30] SE (0900966-3) 2009-07-10
[30] SE (0900968-9) 2009-07-10
[30] SE (0900969-7) 2009-07-10
[30] SE (0900970-5) 2009-07-10
[30] SE (0900972-1) 2009-07-10
[30] SE (0900973-9) 2009-07-10
[30] SE (0900974-7) 2009-07-10
[30] SE (0900976-2) 2009-07-10
[30] SE (0900978-8) 2009-07-10
[30] SE (0900958-0) 2009-07-10
[30] US (61/229738) 2009-07-30
[30] US (61/229739) 2009-07-30
[30] US (61/229743) 2009-07-30
[30] US (61/229745) 2009-07-30
[30] US (61/229746) 2009-07-30
[30] US (61/229747) 2009-07-30
[30] US (61/229748) 2009-07-30
[30] US (61/229751) 2009-07-30
[30] US (61/229752) 2009-07-30
[30] US (61/229755) 2009-07-30
[30] US (61/229761) 2009-07-30
[30] US (61/229767) 2009-07-30
[30] US (61/229778) 2009-07-30
[30] US (61/229786) 2009-07-30
[30] US (61/229789) 2009-07-30
[30] US (61/229796) 2009-07-30
[30] US (61/229735) 2009-07-30

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[11] **2,987,406**
[13] C

[51] **Int.Cl. G09G 3/34 (2006.01)**
[25] EN
[54] **CONTROL DEVICE HAVING AN INTEGRAL REFLECTING STRUCTURE FOR A SENSING CIRCUIT**

[54] **DISPOSITIF DE COMMANDE AYANT UNE STRUCTURE REFLECHISSANTE INTEGRALE POUR UN CIRCUIT DE DETECTION**

[72] SHIVELL, WILLIAM TAYLOR, US
[72] MCDONALD, MATTHEW PHILIP, US

[73] LUTRON TECHNOLOGY COMPANY LLC, US

[85] 2017-11-27
[86] 2016-05-26 (PCT/US2016/034460)
[87] (WO2016/191611)
[30] US (62/166,219) 2015-05-26

[11] **2,987,791**
[13] C

[51] **Int.Cl. F41G 1/387 (2006.01)**
[25] EN
[54] **CO-ALIGNED CLOSE QUARTERS BATTLEFIELD SIGHT**

[54] **VISEE DE CHAMP DE BATAILLE DE DISTANCE RAPPROCHEE CO-ALIGNEE**

[72] CONNOLLY, JOHN M., CA
[72] HARRIS, GEOFF, CA
[72] ROSS, BRIEN, CA
[73] RAYTHEON CANADA LIMITED, CA

[85] 2017-11-30
[86] 2015-06-02 (PCT/CA2015/050512)
[87] (WO2016/191847)

[11] **2,988,935**
[13] C

[51] **Int.Cl. E03D 5/092 (2006.01) E03D 1/34 (2006.01) E03D 5/00 (2006.01) E03D 5/02 (2006.01)**

[25] EN
[54] **ADJUSTABLE TOILET FLUSH LEVER ARM ASSEMBLY**

[54] **ENSEMBLE BRAS DE LEVIER DE CHASSE D'EAU REGLABLE POUR TOILETTES**

[72] MALLELA, VENKAT, US
[72] KOMATH, SHIJIN, IN
[72] VIJAYAN, JITHIN KARUKASSERIL, IN

[72] VENKATACHALAM, MANIVANNAN, IN

[73] FLUIDMASTER, INC., US

[85] 2017-12-08
[86] 2016-05-27 (PCT/US2016/034571)
[87] (WO2017/007540)
[30] US (62/189,762) 2015-07-08

[11] **2,988,979**
[13] C

[51] **Int.Cl. C10G 7/00 (2006.01) C10G 31/09 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR REDUCING RESOURCE CONSUMPTION IN PRODUCTION OF ALCOHOL FUEL BY CONVERSION TO HYDROCARBON FUELS**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE REDUIRE LA CONSOMMATION DE RESSOURCES DANS LA PRODUCTION D'ALCOOL CARBURANT PAR CONVERSION EN CARBURANTS HYDROCARBONES**

[72] WYMAN, CHARLES E., US
[72] HANNON, JOHN R., US
[73] VERTIMASS, LLC, US

[85] 2017-12-08
[86] 2016-06-10 (PCT/US2016/036982)
[87] (WO2016/201297)
[30] US (62/174,672) 2015-06-12
[30] US (62/184,142) 2015-06-24

[11] **2,989,216**
[13] C

[51] **Int.Cl. B65D 21/08 (2006.01) A24F 23/00 (2006.01) B65D 51/28 (2006.01) B65D 83/08 (2006.01)**

[25] EN
[54] **SNUS CONTAINER**

[54] **CONTENANT DE TABAC A CHIQUER**

[72] NERSING, LOVISA, SE
[72] BERGGREN, ADAM, SE
[73] FIEDLER & LUNDGREN AB, CH

[85] 2017-12-12
[86] 2016-06-01 (PCT/EP2016/062386)
[87] (WO2016/202591)
[30] GB (1510503.4) 2015-06-16

[11] **2,989,790**
[13] C

[51] **Int.Cl. B60B 35/06 (2006.01) B60B 35/06 (2006.01) B62D 7/18 (2006.01)**

[25] EN
[54] **FABRICATED AXLE WITH REMOVABLE KING PIN**

[54] **ESSIEU FABRIQUE AVEC PIVOT DE FUSEE AMOVIBLE**

[72] BLOINK, MICHAEL P., US
[72] DILWORTH, DAMON E., US
[72] ELWOOD, PAUL D., US
[72] GODING, JONATHAN W., US
[73] HENDRICKSON USA, L.L.C., US

[85] 2017-12-15
[86] 2016-05-27 (PCT/US2016/034838)
[87] (WO2016/196375)
[30] US (62/168,576) 2015-05-29

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[11] **2,989,888**
[13] C

[51] **Int.Cl. H04N 21/462 (2011.01) H04N 21/643 (2011.01) H04N 21/658 (2011.01)**

[25] EN

[54] **DELIVERY OF ELECTRONIC PROGRAMMING GUIDE USING A CACHING CONTENT DELIVERY NETWORK**

[54] **DISTRIBUTION D'UN GUIDE DE PROGRAMMATION ELECTRONIQUE AU MOYEN D'UN RESEAU DE DISTRIBUTION DE CONTENU DE CACHE**

[72] LEGENDRE, GEORGES-ETIENNE, CA

[72] SNYDER, CHRIS, CA

[72] TARDIF, FREDERIC, CA

[72] LAVIGNE-GIROUX, SIMON, CA

[73] BCE INC., CA

[86] (2989888)

[87] (2989888)

[22] 2017-12-21

[30] US (62/440,091) 2016-12-29

[11] **2,990,235**
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **IMMUNE RESPONSE INDUCER**

[54] **INDUCTEUR DE LA REPONSE IMMUNITAIRE**

[72] ISHIBASHI, MASAKI, JP

[72] OKANO, FUMIYOSHI, JP

[73] TORAY INDUSTRIES, INC., JP

[86] (2990235)

[87] (2990235)

[22] 2008-10-23

[62] 2,703,350

[30] JP (2007-277578) 2007-10-25

[30] JP (2007-277611) 2007-10-25

[30] JP (2007-277240) 2007-10-25

[30] JP (2007-279113) 2007-10-26

[11] **2,990,293**
[13] C

[51] **Int.Cl. G06Q 30/00 (2012.01)**

[25] EN

[54] **DATA INTERACTION PROCESSING METHOD AND DEVICE**

[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT D'INTERACTION DE DONNEES**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[85] 2017-12-20

[86] 2015-06-30 (PCT/CN2015/082760)

[87] (WO2017/000164)

[11] **2,990,697**
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) G06F 17/00 (2019.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR LINKING ONLINE BEHAVIOR TO OFFLINE PAYMENT TRANSACTIONS**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE LIEN DE COMPORTEMENT EN LIGNE AVEC DES TRANSACTIONS DE PAIEMENT HORS LIGNE**

[72] CHIB, SANJEEV, CA

[73] SPENDSCAPE INC., CA

[85] 2017-12-22

[86] 2015-07-03 (PCT/CA2015/000426)

[87] (WO2017/004688)

[11] **2,990,698**
[13] C

[51] **Int.Cl. G06F 1/26 (2006.01) G09G 5/00 (2006.01) H01R 13/639 (2006.01) H01R 25/00 (2006.01) H02J 13/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS TO RETRIEVE DATA FROM POWER DISTRIBUTION UNITS**

[54] **PROCEDE ET APPAREIL POUR EXTRAIRE DES DONNEES D'UNITES DE DISTRIBUTION D'ENERGIE**

[72] HUTCHISON, GORDON, US

[72] MELANED, BRYAN, US

[72] SADECKI, ZACHARY, US

[72] NYIRY, ELEMER, US

[72] RILEY, SAM, US

[73] VERTIV CORPORATION, US

[85] 2017-12-21

[86] 2016-07-13 (PCT/US2016/042071)

[87] (WO2017/011541)

[30] US (62/191,596) 2015-07-13

[30] US (15/209,157) 2016-07-13

[11] **2,992,191**
[13] C

[51] **Int.Cl. H05B 6/02 (2006.01) H05B 6/06 (2006.01) H05B 6/10 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEM, AND METHOD FOR INDUCTION HEATING**

[54] **APPAREIL, SYSTEME ET METHODE D'INDUCTION DE CHALEUR**

[72] GRAY, EVERETTE D., US

[73] THE BOEING COMPANY, US

[86] (2992191)

[87] (2992191)

[22] 2018-01-18

[30] US (15/467857) 2017-03-23

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[11] **2,993,636**
[13] C

[51] **Int.Cl. A61B 5/374 (2021.01) A61B 5/291 (2021.01) A61B 5/375 (2021.01) A61N 1/08 (2006.01)**

[25] EN

[54] **DEVICES, SYSTEMS AND METHODS FOR MONITORING BRAIN ACTIVITY AND FOR ENABLING BRAIN TO REBALANCE**

[54] **DISPOSITIFS, SYSTEMES ET PROCESSES POUR SURVEILLER L'ACTIVITE CEREBRALE ET PERMETTRE AU CERVEAU DE SE REEQUILIBRER**

[72] GERDES, LEE, US
[72] GERDES, PETER, US
[72] LOUCKS, RUSSELL, US
[72] HASTINGS, PAUL, US
[72] SMITH, GILLAN, US
[72] LEE, SUNG, US
[73] BRAIN STATE TECHNOLOGIES, LLC, US
[85] 2018-01-23
[86] 2016-08-15 (PCT/US2016/046970)
[87] (WO2017/031028)
[30] US (62/207,233) 2015-08-19
[30] US (62/242,673) 2015-10-16

[11] **2,994,339**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **SINGLE DOMAIN ANTIBODY FOR PROGRAMMED DEATH-LIGAND (PD-L1) AND DERIVED PROTEIN THEREOF**

[54] **ANTICORPS A DOMAINE UNIQUE POUR LE LIGAND DU RECEPTEUR DE MORT CELLULAIRE PROGRAMMEE DE CELUI-CI**

[72] XU, TING, CN
[72] DONG, YANRONG, CN
[72] WANG, PILIN, CN
[72] CHEN, TING, CN
[73] 3D MEDICINES (BEIJING) CO., LTD., CN
[73] JIANGSU ALPHAMAB BIOPHARMACEUTICALS CO., LTD., CN
[85] 2018-01-31
[86] 2016-08-01 (PCT/CN2016/092680)
[87] (WO2017/020802)
[30] CN (201510465481.8) 2015-07-31

[11] **2,995,493**
[13] C

[51] **Int.Cl. B60T 15/02 (2006.01) B60T 11/10 (2006.01) B61H 13/34 (2006.01)**

[25] EN

[54] **BRAKE CYLINDER MAINTAINING VALVE**

[54] **VANNE DE MAINTIEN DE CYLINDRE DE FREIN**

[72] GAUGHAN, EDWARD W., US
[72] POTTER, WILLIAM JOHN, US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[85] 2018-02-12
[86] 2017-03-07 (PCT/US2017/021072)
[87] (WO2017/155934)
[30] US (62/304,595) 2016-03-07

[11] **2,996,998**
[13] C

[51] **Int.Cl. A47B 88/40 (2017.01) A47B 88/49 (2017.01) A47B 88/497 (2017.01)**

[25] EN

[54] **A DRAWER, AND A DRAWER SLIDING SYSTEM FOR SUCH DRAWER**

[54] **TIROIR ET SYSTEME COULISSANT DE TIROIR POUR LEDIT TIROIR**

[72] ANDERSSON, BENNY, SE
[73] IKEA SUPPLY AG, CH
[85] 2018-02-28
[86] 2016-09-07 (PCT/EP2016/071104)
[87] (WO2017/042228)
[30] SE (1551138-9) 2015-09-07
[30] SE (1651049-7) 2016-07-13
[30] SE (1651084-4) 2016-07-25

[11] **2,997,234**
[13] C

[51] **Int.Cl. B09B 3/80 (2022.01) B09B 3/35 (2022.01) B02C 13/18 (2006.01) B02C 13/28 (2006.01) B09B 5/00 (2006.01) B29B 17/02 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR SEPARATING COMPOSITE MATERIALS AND MIXTURES, IN PARTICULAR SOLID-MATERIAL MIXTURES AND SLAGS**

[54] **PROCEDE ET DISPOSITIF POUR SEPARER DES MATERIAUX COMPOSITES ET DES MELANGES, EN PARTICULIER DES MELANGES DE MATIERES SOLIDES ET DES SCORIES**

[72] GRAF, DENIZ, CH
[73] GRAF, DENIZ, CH
[85] 2018-03-01
[86] 2015-09-03 (PCT/EP2015/070159)
[87] (WO2017/036534)

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[11] **2,998,790**
[13] C

[51] **Int.Cl. B25J 15/00 (2006.01) B65G 47/90 (2006.01)**
[25] EN
[54] **EVERTING END EFFECTOR FOR USE WITH AN ARTICULATED ARM IN A ROBOTIC SYSTEM**
[54] **EFFECTEUR TERMINAL A EVERSION A UTILISER AVEC UN BRAS ARTICULE DANS UN SYSTEME ROBOTISE**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCSKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
[85] 2018-03-14
[86] 2016-09-15 (PCT/US2016/051922)
[87] (WO2017/048942)
[30] US (62/218,799) 2015-09-15

[11] **2,999,118**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING A THERAPEUTIC PROTEIN FORMULATION AND ANTIBODY FORMULATION PRODUCED BY SUCH A METHOD**
[54] **PROCEDE DE PREPARATION D'UNE FORMULATION DE PROTEINE THERAPEUTIQUE ET FORMULATION D'ANTICORPS PRODUITE PAR UN TEL PROCEDE**
[72] GLYNN, JUDY KAY, US
[72] CHEN, BRIAN XIN, US
[72] LACASSE, DANIEL PATRICK, US
[73] PFIZER INC., US
[85] 2018-03-19
[86] 2016-09-08 (PCT/IB2016/055355)
[87] (WO2017/051273)
[30] US (62/222,067) 2015-09-22

[11] **2,999,397**
[13] C

[51] **Int.Cl. B01D 71/36 (2006.01) B01D 39/16 (2006.01) B01D 46/52 (2006.01) B01D 63/14 (2006.01)**
[25] EN
[54] **AIR FILTER MEDIUM, AIR FILTER PACK, AND AIR FILTER UNIT**
[54] **SUPPORT DE FILTRE A AIR, ENSEMBLE DE FILTRE A AIR ET DE MODULE DE FILTRE A AIR**
[72] NIKI, TAKASHI, JP
[72] MORI, MASAOKI, JP
[72] WADA, SHIHO, JP
[72] DAIMON, ATSUSHI, JP
[73] NITTO DENKO CORPORATION, JP
[85] 2018-03-21
[86] 2016-09-30 (PCT/JP2016/004433)
[87] (WO2017/056508)
[30] JP (2015-194948) 2015-09-30

[11] **3,000,412**
[13] C

[51] **Int.Cl. C12N 9/90 (2006.01) C12P 19/24 (2006.01)**
[25] EN
[54] **ENZYMATIC PRODUCTION OF D-TAGATOSE**
[54] **SYNTHESE ENZYMATIQUE DU D-TAGATOSE**
[72] WICHELECKI, DANIEL JOSEPH, US
[73] BONUMOSE LLC, US
[85] 2018-03-28
[86] 2016-09-30 (PCT/US2016/054838)
[87] (WO2017/059278)
[30] US (62/236,226) 2015-10-02

[11] **3,000,445**
[13] C

[51] **Int.Cl. C08J 11/00 (2006.01) B29B 17/02 (2006.01) C08J 11/28 (2006.01) C08J 5/04 (2006.01)**
[25] EN
[54] **CARBON FIBER RECOVERY COMPOSITIONS AND METHODES**
[54] **COMPOSITIONS ET PROCEDES DE RECUPERATION DE FIBRES DE CARBONE**
[72] GROSS, ADAM F., US
[72] VAJO, JOHN J., US
[72] NELSON, ASHLEY M., US
[72] RODRIGUEZ, APRIL R., US
[72] DALAL, HARDIK, US
[72] GEORGE, PANAGIOTIS E., US
[73] THE BOEING COMPANY, US
[86] (3000445)
[87] (3000445)
[22] 2018-04-05
[30] US (15/482012) 2017-04-07

[11] **3,000,614**
[13] C

[51] **Int.Cl. A61L 31/00 (2006.01) A61B 1/12 (2006.01)**
[25] EN
[54] **VISCOELASTIC COMPOSITION FOR SECURING THE FIELD OF VIEW OF AN ENDOSCOPE**
[54] **COMPOSITION VISCOELASTIQUE POUR FIXER L'ANGLE DE CHAMP D'UN ENDOSCOPE**
[72] YANO, TOMONORI, JP
[72] OHHATA, ATSUSHI, JP
[72] GOTO, TOSHIHIRO, JP
[72] HIRAKI, YUJI, JP
[73] JICHI MEDICAL UNIVERSITY, JP
[73] OTSUKA PHARMACEUTICAL FACTORY, INC., JP
[85] 2018-03-29
[86] 2016-09-28 (PCT/JP2016/078704)
[87] (WO2017/057504)
[30] JP (2015-195105) 2015-09-30

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[11] **3,002,319**
[13] C

[51] **Int.Cl. G02B 26/12 (2006.01)**
[25] EN
[54] **AN IMAGE SCANNING APPARATUS AND METHODS OF OPERATING AN IMAGE SCANNING APPARATUS**

[54] **APPAREIL DE BALAYAGE D'IMAGES ET PROCÉDES D'EXPLOITATION D'UN APPAREIL DE BALAYAGE D'IMAGES**

[72] GOUCH, MARTIN PHILIP, GB
[72] HAWES, WILLIAM ROLAND, GB
[72] SCHMID, JOACHIM HELMUT, US
[73] VENTANA MEDICAL SYSTEMS, INC., US
[85] 2018-04-17
[86] 2016-12-09 (PCT/EP2016/080360)
[87] (WO2017/097950)
[30] US (62/265,015) 2015-12-09

[11] **3,003,476**
[13] C

[51] **Int.Cl. E02D 5/56 (2006.01) E02D 5/80 (2006.01) E21B 10/44 (2006.01) E21B 17/22 (2006.01) E02D 7/22 (2006.01)**

[25] EN
[54] **HELICAL PILE WITH CUTTING TIP**

[54] **PIEU HELICOÏDALE AVEC EMBOUT COUPANT**

[72] WILSON, JONATHAN MICHAEL, US
[72] KEMP, TIMOTHY MICHAEL, US
[72] SEIDER, GARY LEONARD, US
[73] HUBBELL INCORPORATED, US
[85] 2018-04-26
[86] 2016-11-04 (PCT/US2016/060525)
[87] (WO2017/079554)
[30] US (62/251,728) 2015-11-06

[11] **3,003,617**
[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 15/16 (2006.01)**

[25] EN
[54] **MODEL BUILDING ARCHITECTURE AND SMART ROUTING OF WORK ITEMS**

[54] **ARCHITECTURE DE BATIMENT MODELE ET ACHEMINEMENT INTELLIGENT D'ELEMENTS DE TRAVAIL**

[72] JAYARAMAN, BASKAR, US
[72] CHATTERJEE, DEBASHISH, US
[72] GOVINDARAJAN, KANNAN, US
[72] THAKUR, ANIRUDDHA, US
[73] SERVICENOW, INC., US
[86] (3003617)
[87] (3003617)
[22] 2018-05-02
[30] US (15/674,379) 2017-08-10
[30] US (62/501,646) 2017-05-04
[30] US (62/501,657) 2017-05-04
[30] US (62/502,244) 2017-05-05
[30] US (62/502,258) 2017-05-05
[30] US (62/502,308) 2017-05-05
[30] US (62/502,440) 2017-05-05

[11] **3,003,739**
[13] C

[51] **Int.Cl. C08L 27/18 (2006.01) B29C 48/15 (2019.01) B32B 1/08 (2006.01) F16L 59/14 (2006.01) F16L 59/15 (2006.01)**

[25] EN
[54] **INSULATED CONDUIT INCLUDING A FLUOROPOLYMER COMPOSITION FOR USE AS A THERMAL INSULATION LAYER**

[54] **CONDUITE ISOLEE COMPRENANT UNE COMPOSITION DE POLYMERE FLUORE POUR L'UTILISATION COMME COUCHE D'ISOLATION THERMIQUE**

[72] YODOGAWA, MASAHIDE, JP
[72] LAVANGA, DAVID J., US
[72] MURPHY, DENNIS G., US
[72] IRUYA, KEN, JP
[73] AGC CHEMICALS AMERICAS INC., US
[73] AGC INC., JP
[85] 2018-04-30
[86] 2016-11-02 (PCT/US2016/060039)
[87] (WO2017/079238)
[30] US (62/249,717) 2015-11-02

[11] **3,003,846**
[13] C

[51] **Int.Cl. C07D 207/16 (2006.01) A01N 43/36 (2006.01) A01N 59/16 (2006.01) A01P 21/00 (2006.01) C05D 9/02 (2006.01) C05F 11/10 (2006.01)**

[25] EN
[54] **HETEROCYCLE-CONTAINING AMINO ACID COMPOUND AND USE THEREOF**

[54] **COMPOSE D'ACIDE AMINE CONTENANT UN HETEROCYCLE ET UTILISATION CORRESPONDANTE**

[72] NAMBA, KOSUKE, JP
[72] MURATA, YOSHIKO, JP
[73] TOKUSHIMA UNIVERSITY, JP
[73] AICHI STEEL CORPORATION, JP
[85] 2018-05-01
[86] 2016-11-01 (PCT/JP2016/082374)
[87] (WO2017/082111)
[30] JP (2015-219537) 2015-11-09

[11] **3,003,905**
[13] C

[51] **Int.Cl. C22C 38/02 (2006.01) C22C 38/08 (2006.01) C22C 38/54 (2006.01)**

[25] EN
[54] **LAYERED CONSTRUCTION OF IN-SITU METAL MATRIX COMPOSITES**

[54] **CONSTRUCTION EN COUCHES DE COMPOSITES A MATRICE METALLIQUE IN SITU**

[72] TUFFILE, CHARLES D., US
[72] LEMKE, HARALD, US
[72] MACK, PATRICK E., US
[73] MACLEAN-FOGG COMPANY, US
[85] 2018-05-01
[86] 2016-11-02 (PCT/US2016/060185)
[87] (WO2017/079351)
[30] US (62/249,642) 2015-11-02

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[11] **3,004,575**
[13] C

[51] **Int.Cl. E04B 1/18 (2006.01) E04C 3/30 (2006.01)**
[25] EN
[54] **ADJUSTABLE SUPPORT COLUMN WITH UPLIFT-RESISTING ASSEMBLY**
[54] **COLONNE DE SUPPORT AJUSTABLE DOTEE D'UN ASSEMBLAGE RESISTANT AU SOULEVEMENT**
[72] KOSS, DEVON, CA
[72] FISHER, TONY, CA
[72] NEJATI, MOHSEN, CA
[72] BOUCHER, MICHEL, CA
[72] WADE, GARY, CA
[72] KOSS, VALERIE, CA
[73] WESTERN SULFUR REMELTERS LTD., CA
[86] (3004575)
[87] (3004575)
[22] 2018-05-10
[30] US (62/503,996) 2017-05-10

[11] **3,006,065**
[13] C

[51] **Int.Cl. C09K 8/80 (2006.01) C09K 8/00 (2006.01) C09K 8/60 (2006.01) E21B 43/00 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT PROPPANT AND METHODS FOR MAKING AND USING SAME**
[54] **AGENT DE SOUTENEMENT LEGER ET SES PROCEDES DE FABRICATION ET D'UTILISATION**
[72] ROPER, TODD, US
[72] LIENG, THU, US
[72] OREKHA, OLATUNJI, US
[72] WOOLFOLK, WILLIAM SCOTT, US
[73] CARBO CERAMICS INC., US
[85] 2018-05-23
[86] 2016-11-14 (PCT/US2016/061832)
[87] (WO2017/091372)
[30] US (14/950,649) 2015-11-24

[11] **3,006,566**
[13] C

[51] **Int.Cl. B23K 20/12 (2006.01) B23K 20/16 (2006.01)**
[25] EN
[54] **AN APPARATUS FOR FORMING A FRICTION WELD**
[54] **APPAREIL DE FORMATION D'UNE SOUDURE PAR FRICTION**
[72] JACKMAN, STUART, GB
[73] JACKWELD LIMITED, GB
[85] 2018-05-28
[86] 2016-11-30 (PCT/GB2016/053759)
[87] (WO2017/093726)
[30] GB (1521079.2) 2015-11-30

[11] **3,007,155**
[13] C

[51] **Int.Cl. B65D 5/02 (2006.01) A47G 21/00 (2006.01) B65D 5/42 (2006.01)**
[25] EN
[54] **A PACKET FOR FRENCH FRIES AND A PLANO FOR ASSEMBLING SUCH PACKET**
[54] **PAQUET POUR FRITES ET ELEMENT PLAT PERMETTANT D'ASSEMBLER UN TEL PAQUET**
[72] VAN DIJK, DIRK, NL
[72] VERMEER, MIKE, NL
[73] LAMBWESTON/MEIJER VOF, NL
[85] 2018-06-01
[86] 2016-12-06 (PCT/NL2016/050846)
[87] (WO2017/099587)
[30] NL (2015918) 2015-12-07

[11] **3,007,879**
[13] C

[51] **Int.Cl. F41A 3/44 (2006.01) F41A 17/42 (2006.01) F41A 17/66 (2006.01) F41A 19/31 (2006.01) F41A 19/34 (2006.01)**
[25] EN
[54] **COCKING DEVICE FOR A FIRING PIN AND WEAPON COMPRISING SAID COCKING DEVICE**
[54] **DISPOSITIF D'ARMEMENT POUR UN PERCUTEUR ET ARME POURVUE DUDIT DISPOSITIF D'ARMEMENT**
[72] MULLER, ANDY, DE
[72] SCHNEIDER, HUBERT, DE
[72] SCHWEIZER, MARKUS, DE
[73] RHEINMETALL WAFFE MUNITION GMBH, DE
[85] 2018-06-08
[86] 2016-12-14 (PCT/EP2016/080999)
[87] (WO2017/102842)
[30] DE (10 2015 121 770.8) 2015-12-14

[11] **3,009,113**
[13] C

[51] **Int.Cl. G06Q 40/04 (2012.01) G06Q 20/06 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING FINANCIAL DATA TO FINANCIAL INSTRUMENTS IN A DISTRIBUTED LEDGER SYSTEM**
[54] **SYSTEMES ET PROCEDES DE FOURNITURE DE DONNEES FINANCIERES A DES INSTRUMENTS FINANCIERS DANS UN SYSTEME DE REGISTRE DISTRIBUE**
[72] NUGENT, TIM, CH
[73] FINANCIAL & RISK ORGANISATION LIMITED, GB
[85] 2018-06-19
[86] 2017-03-30 (PCT/IB2017/051834)
[87] (WO2017/168371)
[30] US (62/315,919) 2016-03-31
[30] US (15/473,127) 2017-03-29

[11] **3,009,825**
[13] C

[51] **Int.Cl. B01J 19/30 (2006.01) B01J 8/04 (2006.01)**
[25] EN
[54] **USE OF TREATING ELEMENTS TO FACILITATE FLOW IN VESSELS**
[54] **UTILISATION D'ELEMENTS DE TRAITEMENT POUR FACILITER L'ECOULEMENT DANS DES CUVES**
[72] GLOVER, JOHN N., US
[72] HAM, PETER GREGORY, US
[72] SCHNEIDER, AUSTIN, US
[73] CRYSTAPHASE PRODUCTS, INC., US
[85] 2018-06-26
[86] 2017-02-10 (PCT/US2017/017398)
[87] (WO2017/139597)
[30] US (62/294,768) 2016-02-12
[30] US (62/314,069) 2016-03-28
[30] US (15/265,405) 2016-09-14

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[11] **3,010,272**
[13] C

[51] **Int.Cl. G06Q 50/30 (2012.01) H04W 4/02 (2018.01) H04W 4/029 (2018.01) H04W 4/30 (2018.01)**

[25] EN

[54] **AUTONOMOUS VEHICLE SERVICES**

[54] **SERVICES POUR VEHICULE AUTONOME**

[72] URMSON, CHRISTOPHER PAUL, US

[72] COLIJN, PETER, US

[72] DOLGOV, DMITRI A., US

[72] FAIRFIELD, NATHANIEL, US

[72] PANDIT, SALIL, US

[72] PATEL, NIRMAL, US

[72] POWELL, RYAN, US

[72] CHAN, MIN LI, US

[73] WAYMO LLC, US

[85] 2018-06-29

[86] 2016-12-27 (PCT/US2016/068650)

[87] (WO2017/117095)

[30] US (62/273,067) 2015-12-30

[30] US (15/358,729) 2016-11-22

[11] **3,011,826**
[13] C

[51] **Int.Cl. B29C 65/14 (2006.01) B62D 25/00 (2006.01) B62D 33/023 (2006.01)**

[25] EN

[54] **INFRARED WELDED EXTERIOR PANEL ASSEMBLY AND PROCESS OF MAKING SAME**

[54] **ENSEMBLE DE PANNEAU EXTERIEUR SOUDE PAR INFRAROUGE ET SON PROCEDE DE FABRICATION**

[72] CHAAYA, RIAD, US

[72] BIRKA, MARK P., US

[72] HARNEY, WILLIAM J. J., CA

[72] SALZMANN, HEINER, US

[72] KUNTZE, CHRISTOPHER J., US

[72] HUOTARI, KEIJO J., US

[73] MAGNA EXTERIORS INC., CA

[85] 2018-07-18

[86] 2017-01-30 (PCT/IB2017/000116)

[87] (WO2017/130064)

[30] US (62/288,786) 2016-01-29

[30] US (62/426,097) 2016-11-23

[11] **3,015,079**
[13] C

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

[25] EN

[54] **ELECTRO-STIMULATION DEVICE EFFECTIVE IN MUSCLE LOCATION IDENTIFICATION AND THERAPEUTIC RESPONSE ENHANCEMENT**

[54] **DISPOSITIF D'ELECTRO-STIMULATION EFFICACE POUR L'IDENTIFICATION DE LOCALISATION DE MUSCLES ET L'AMELIORATION DE REPONSE THERAPEUTIQUE**

[72] CAKMAK, YUSUF OZGUR, TR

[72] UREY, HAKAN, TR

[72] OZSOY, BURAK, TR

[72] OLCER, SELIM, TR

[73] STOPARKINSON HEALTHCARE SYSTEMS LLC, US

[85] 2018-08-17

[86] 2016-03-09 (PCT/TR2016/050064)

[87] (WO2017/155484)

[11] **3,011,417**
[13] C

[51] **Int.Cl. F16J 15/08 (2006.01) F16L 23/18 (2006.01)**

[25] EN

[54] **A METHOD AND A DEVICE FOR SEALING BETWEEN ATTACHABLE PAIR OF PIPE FLANGES**

[54] **PROCEDE ET DISPOSITIF D'ETANCHEITE ENTRE UNE PAIRE DE BRIDES DE TUYAUX POUVANT ETRE FIXEES**

[72] KAROLIUSSEN, HILBERG INGE, NO

[73] OTECHOS AS, NO

[85] 2018-07-13

[86] 2017-01-17 (PCT/NO2017/000003)

[87] (WO2017/126973)

[30] NO (20160084) 2016-01-19

[11] **3,012,444**
[13] C

[51] **Int.Cl. A61M 31/00 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **VISUALIZATION AND ANALYSIS TOOL FOR A DRUG DELIVERY SYSTEM**

[54] **OUTIL DE VISUALISATION ET D'ANALYSE POUR UN SYSTEME D'ADMINISTRATION DE MEDICAMENT**

[72] FINAN, DANIEL, US

[72] VERESHCHETIN, PAVEL, US

[73] ANIMAS CORPORATION, US

[85] 2018-07-24

[86] 2017-01-20 (PCT/US2017/014291)

[87] (WO2017/136155)

[30] US (62/291,792) 2016-02-05

[11] **3,016,365**
[13] C

[51] **Int.Cl. G21F 5/005 (2006.01)**

[25] EN

[54] **SYSTEM FOR STORAGE CONTAINER WITH REMOVABLE SHIELD PANELS**

[54] **SYSTEME POUR CONTENEUR DE STOCKAGE AVEC PANNEAUX DE PROTECTION AMOVIBLES**

[72] CAMPBELL, BRETT, US

[72] DALTON, DAVID, US

[72] LILLY, BRETT, US

[73] VEOLIA NUCLEAR SOLUTIONS, INC., US

[85] 2018-08-30

[86] 2017-05-23 (PCT/US2017/034075)

[87] (WO2017/205427)

[30] US (62/342,028) 2016-05-26

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[11] **3,016,826**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **SALT OF PYRIDINYL AMINO PYRIMIDINE DERIVATIVE, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF**

[54] **SEL DE DERIVE DE PYRIDINYL AMINO PYRIMIDINE, SON PROCEDE DE PREPARATION ET SON APPLICATION**

[72] LUO, HUIBING, CN

[72] ZHOU, HUAYONG, CN

[73] SHANGHAI ALLIST PHARMACEUTICALS CO., LTD., CN

[85] 2018-09-06

[86] 2017-03-01 (PCT/CN2017/000202)

[87] (WO2017/152706)

[30] CN (201610126987.0) 2016-03-07

[11] **3,017,333**
[13] C

[51] **Int.Cl. B66C 13/22 (2006.01) B66C 13/16 (2006.01) B66C 13/50 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING A LOAD IN A MATERIAL HANDLING SYSTEM**

[54] **SYSTEME ET PROCEDE POUR DETERMINER UNE CHARGE DANS UN SYSTEME DE MANUTENTION DE MATERIAU**

[72] VERHEYEN, KURTIS, US

[72] KURECK, AARON, US

[73] MAGNETEK, INC., US

[85] 2018-09-10

[86] 2017-02-16 (PCT/US2017/018033)

[87] (WO2017/155675)

[30] US (15/066,061) 2016-03-10

[11] **3,017,864**
[13] C

[51] **Int.Cl. F04C 5/00 (2006.01) F16D 1/06 (2006.01) H02K 7/116 (2006.01)**

[25] EN

[54] **TUBE PUMP, ROTATION RESTRICTING PART, SHAFT, AND SHAFT CONNECTION STRUCTURE**

[54] **POMPE A TUBE, PIECE LIMITANT LA ROTATION, ARBRE ET STRUCTURE DE RACCORDEMENT D'ARBRE**

[72] MINATODANI, YOJI, JP

[73] WELCO CO., LTD., JP

[85] 2018-09-14

[86] 2017-03-17 (PCT/JP2017/010859)

[87] (WO2017/159841)

[30] JP (2016-055549) 2016-03-18

[11] **3,018,389**
[13] C

[51] **Int.Cl. C07C 67/02 (2006.01) C07C 31/04 (2006.01) C07C 51/285 (2006.01) C07C 51/31 (2006.01) C07C 53/02 (2006.01) C07C 53/08 (2006.01) C07C 59/185 (2006.01) C07C 69/06 (2006.01) C07C 69/14 (2006.01) C07C 69/40 (2006.01) C07C 69/716 (2006.01) C07D 307/48 (2006.01) C07D 307/50 (2006.01)**

[25] EN

[54] **CATALYTIC CONVERSION OF LIGNOCELLULOSIC BIOMASS INTO INDUSTRIAL BIOCHEMICALS**

[54] **CONVERSION CATALYTIQUE D'UNE BIOMASSE LIGNOCELLULOSIQUE EN AGENTS BIOCHIMIQUES INDUSTRIELS**

[72] LE VAN MAO, RAYMOND, CA

[73] LES EXPLOITATIONS J.Y.B. PAPINEAU INC., CA

[85] 2018-09-20

[86] 2017-03-22 (PCT/CA2017/050361)

[87] (WO2017/161452)

[30] US (62/312,732) 2016-03-24

[11] **3,018,775**
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01)**

[25] EN

[54] **OPTICAL FIBER SENSOR TO DETECT THE POSITION OF A NEEDLE**

[54] **CAPTEUR A FIBRE OPTIQUE POUR DETECTER LA POSITION D'UNE AIGUILLE**

[72] MA, YIPING, US

[72] KHANICHEH, AZADEH, US

[73] BECTON, DICKINSON AND COMPANY, US

[85] 2018-09-21

[86] 2017-03-17 (PCT/US2017/022937)

[87] (WO2017/172388)

[30] US (62/314,266) 2016-03-28

[30] US (15/461,366) 2017-03-16

[11] **3,021,340**
[13] C

[51] **Int.Cl. B64C 1/36 (2006.01) B33Y 10/00 (2015.01) B32B 3/12 (2006.01) B64C 1/12 (2006.01) B64C 5/06 (2006.01) H01Q 1/42 (2006.01)**

[25] EN

[54] **CORE STRUCTURES FOR COMPOSITE PANELS OF AN AIRCRAFT, COMPOSITE PANELS AND AIRCRAFT INCLUDING THE CORE STRUCTURES, AND METHODS OF MANUFACTURING THE COMPOSITE PANELS**

[54] **STRUCTURES D'AME DE PANNEAUX EN COMPOSITE D'UN AERONEF, PANNEAUX EN COMPOSITE ET AERONEF COMPORTANT LES STRUCTURES D'AME, ET METHODE DE FABRICATION DES PANNEAUX EN COMPOSITE**

[72] BRALEY, DANIEL JOSEPH, US

[72] LYONS, BRETT L., US

[72] GONZE, THOMAS JOSEPH, US

[72] TUCKER, TREVOR E., US

[72] WICK, JANET MARY, US

[72] DECK, ERIC ELDON, US

[72] PETERS, GARRETT B., US

[72] WILLIAMS, NICOLE RENEE, US

[72] BAUER, ANDREW LAWRENCE, US

[73] THE BOEING COMPANY, US

[86] (3021340)

[87] (3021340)

[22] 2018-10-17

[30] US (15/838855) 2017-12-12

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[11] **3,022,133**
[13] C

[51] **Int.Cl. F25B 49/04 (2006.01) F24D 3/18 (2006.01) F24D 15/04 (2006.01) F25B 15/00 (2006.01) F25B 30/04 (2006.01)**

[25] EN

[54] **SORPTION HEAT PUMP AND CONTROL METHOD**

[54] **POMPE A CHALEUR A SORPTION ET PROCEDE DE COMMANDE**

[72] GARRABRANT, MICHAEL A., US

[72] STOUT, ROGER E., US

[73] STONE MOUNTAIN TECHNOLOGIES, INC., US

[85] 2018-10-24

[86] 2017-05-11 (PCT/US2017/032175)

[87] (WO2017/197124)

[30] US (62/334,664) 2016-05-11

[11] **3,022,570**
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/95 (2019.01) G06F 16/955 (2019.01) G06F 9/44 (2018.01) G06F 9/445 (2018.01) G06F 11/36 (2006.01)**

[25] EN

[54] **DYNAMIC CONTENT AND CLOUD BASED CONTENT WITHIN COLLABORATIVE ELECTRONIC CONTENT CREATION AND MANAGEMENT TOOLS**

[54] **CONTENU DYNAMIQUE ET CONTENU NUAGIQUE DANS LES OUTILS DE CREATION ET DE GESTION DE CONTENU ELECTRONIQUE COLLABORATIVES**

[72] RING, DEVON, CA

[72] D'AOUST, CHRIS, CA

[72] RICHER, MATTHEW, CA

[73] DELTEK, INC., US

[86] (3022570)

[87] (3022570)

[22] 2018-10-29

[30] US (62/578,595) 2017-10-30

[11] **3,023,495**
[13] C

[51] **Int.Cl. B32B 15/09 (2006.01) B32B 37/00 (2006.01) B32B 37/04 (2006.01)**

[25] EN

[54] **LAMINATED CAN END STOCK WITH ELEVATED TEMPERATURE ANNEALING**

[54] **MATIERE PREMIERE D'EXTREMITE DE CANETTE STRATIFIEE AVEC RECUIT A TEMPERATURE ELEVEE**

[72] RUPARELIA, DHIREN BHUPATLAL, DE

[72] SPAHN, PETER, DE

[72] PRINZHORN, HEINRICH, DE

[72] KAMP, NICOLAS C., DE

[73] NOVELIS INC., US

[85] 2018-11-07

[86] 2017-05-05 (PCT/US2017/031289)

[87] (WO2017/196664)

[30] US (62/334,198) 2016-05-10

[11] **3,023,933**
[13] C

[51] **Int.Cl. E04B 1/80 (2006.01) E04D 13/16 (2006.01) F16L 59/065 (2006.01)**

[25] EN

[54] **ADHESIVE-BACKED COMPOSITE INSULATION BOARDS WITH VACUUM-INSULATED CAPSULES**

[54] **PANNEAUX D'ISOLATION COMPOSITES A REVERS ADHESIF AVEC DES CAPSULES ISOLEES SOUS VIDE**

[72] HUBBARD, MICHAEL J., US

[72] LETTS, JOHN B., US

[72] YAO, CHUNHUA, US

[73] FIRESTONE BUILDING PRODUCTS CO., LLC, US

[85] 2018-11-09

[86] 2017-05-15 (PCT/US2017/032610)

[87] (WO2017/200905)

[30] US (62/336,616) 2016-05-14

[11] **3,024,382**
[13] C

[51] **Int.Cl. F25J 3/02 (2006.01)**

[25] FR

[54] **PROCESS FOR CRYOGENIC SEPARATION OF A FEED STREAM CONTAINING METHANE AND AIR GASES, FACILITY FOR PRODUCING BIOMETHANE BY PURIFICATION OF BIOGASES DERIVED FROM NON-HAZARDOUS WASTE STORAGE FACILITIES (NHWSF) IMPLEMENTING THE PROCESS**

[54] **PROCEDE DE SEPARATION CRYOGENIQUE D'UN DEBIT D'ALIMENTATION CONTENANT DU METHANE ET DES GAZ DE L'AIR, INSTALLATION POUR LA PRODUCTION DE BIO METHANE PAR EPURATION DE BIOGAZ ISSUS D'INSTALLATIONS DE STOCKAGE DE DECHETS NON-DANGEREUX (ISDND) METTANT EN OEUVRE LE PROCEDE**

[72] PRINCE, GUENAELE, FR

[72] PAGET, NICOLAS, FR

[72] LEHMAN, JEAN-YVES, FR

[73] WAGA ENERGY, FR

[85] 2018-11-14

[86] 2017-03-20 (PCT/FR2017/050651)

[87] (WO2017/203112)

[30] FR (1654798) 2016-05-27

[11] **3,024,715**
[13] C

[51] **Int.Cl. G06Q 30/00 (2012.01)**

[25] EN

[54] **DATA EXCHANGE PROCESSING METHOD AND SYSTEM FOR BUYER TERMINAL MATCHING**

[54] **PROCEDE DE TRAITEMENT D'ECHANGE DE DONNEES ET SYSTEME DE CORRESPONDANCE DU TERMINAL DE L'ACHETEUR**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[85] 2018-11-19

[86] 2015-06-30 (PCT/CN2015/082783)

[87] (WO2017/000184)

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[11] **3,024,908**
[13] C

- [51] **Int.Cl. B03B 5/62 (2006.01) B03B 5/04 (2006.01)**
[25] EN
[54] **SEPARATION DEVICE**
[54] **DISPOSITIF DE SEPARATION**
[72] PHILLPOTTS, DAVID NICHOLAS
CHARLES, ZA
[73] MINTEK, ZA
[85] 2018-11-19
[86] 2017-05-03 (PCT/ZA2017/050028)
[87] (WO2017/193143)
[30] ZA (2016/02917) 2016-05-03

[11] **3,025,971**
[13] C

- [51] **Int.Cl. B05B 1/18 (2006.01) B05B 15/60 (2018.01)**
[25] EN
[54] **COMBINED MULTI-PURPOSE HANDHELD SHOWER AND SHOWERHEAD**
[54] **DOUCHE A MAIN ET POMME DE DOUCHE COMBINEES MULTIFONCTION**
[72] MILLER, MICHAEL ALAN, US
[72] LEE, DAVID, US
[72] KIMBELL, MARTIN JENNINGS, US
[72] DU, SHENGJUN, CN
[72] WANG, LEI, CN
[72] DAI, SHENGCHAO, CN
[72] ZHUO, ZHAO YI, CN
[73] DELTA FAUCET COMPANY, US
[86] (3025971)
[87] (3025971)
[22] 2018-11-30
[30] US (62/596,606) 2017-12-08

[11] **3,027,946**
[13] C

- [51] **Int.Cl. A61H 3/04 (2006.01) A61G 5/00 (2006.01) A61G 5/08 (2006.01) A61H 3/00 (2006.01) B62B 3/00 (2006.01) B62B 3/02 (2006.01)**
[25] EN
[54] **PERSONAL MOBILITY DEVICE**
[54] **DISPOSITIF DE MOBILITE INDIVIDUEL**
[72] KAVANAGH, PATRICIA, US
[72] TOUHEY, COLIN, US
[72] EBBOTT-BURG, HENRY, US
[72] TURCHI, MARIO A., US
[72] BAMBINO, MICHAEL, US
[72] JOACHIM, ROBERT, US
[73] EKT LLC, US
[85] 2018-12-14
[86] 2016-09-30 (PCT/US2016/054880)
[87] (WO2017/218027)
[30] US (62/351,097) 2016-06-16

[11] **3,027,960**
[13] C

- [51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/69 (2017.01) A61P 3/00 (2006.01) A61P 21/00 (2006.01) A61P 25/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **ANTIBODY-MEDIATED AUTOCATALYTIC, TARGETED DELIVERY OF NANOCARRIERS TO TUMORS**
[54] **ADMINISTRATION CIBLEE AUTOCATALYTIQUE INDUITE PAR DES ANTICORPS DE NANOVECTEURS A DES TUMEURS**
[72] ZHOU, JIANGBING, US
[72] HANSEN, JAMES, US
[73] YALE UNIVERSITY, US
[85] 2018-12-14
[86] 2017-06-15 (PCT/US2017/037754)
[87] (WO2017/218825)
[30] US (62/350,423) 2016-06-15

[11] **3,028,810**
[13] C

- [51] **Int.Cl. G07C 9/27 (2020.01) E05B 47/00 (2006.01)**
[25] EN
[54] **ELECTRIC LOCK AND METHOD FOR ADDING A USER OF THE SAME**
[54] **VERROU ELECTRIQUE ET METHODE D'AJOUT D'UN UTILISATEUR DUDIT VERROU**
[72] LU, SHIH-MIN, CN
[72] HUANG, FU-CHIH, CN
[73] TAIWAN FU HSING INDUSTRIAL CO., LTD., CN
[86] (3028810)
[87] (3028810)
[22] 2019-01-03
[30] TW (TW 107100342) 2018-01-04
[30] TW (TW 107146949) 2018-12-25

[11] **3,029,460**
[13] C

- [51] **Int.Cl. H01H 33/64 (2006.01)**
[25] EN
[54] **SF6 INSULATED CIRCUIT BREAKER SYSTEM WITH HEATER**
[54] **SYSTEME DE DISJONCTEUR ISOLE AU SF6 A DISPOSITIF DE CHAUFFAGE**
[72] VLADUCHICK, PAUL, US
[72] CUPPETT, MATT, US
[73] HITACHI ENERGY SWITZERLAND AG, CH
[85] 2018-12-27
[86] 2017-06-27 (PCT/US2017/039433)
[87] (WO2018/005446)
[30] US (15/194,169) 2016-06-27

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[11] **3,030,144**
[13] C

[51] **Int.Cl. A61M 3/02 (2006.01)**
[25] EN
[54] **BODY CAVITY IRRIGATION INTEGRATED MANUAL CONTROLLER AND PUMP DEVICE, SYSTEM AND METHOD**

[54] **COMMANDE MANUELLE INTEGRE D'IRRIGATION DE CAVITE CORPORELLE ET POMPE.**

[72] HENRY, JEROME A., IE
[72] ARNOLD, WILLIAM K., US
[72] MATESI, DONALD V., US
[72] GAMBLIN, DENISE, GB
[72] GLENNON, MARY L., US
[72] BRUGGEMANN, MARTIN, IE
[72] CONLON, COLIN, IE
[72] KING, STEPHEN, IE
[72] CULLUM, MALFORD E., US
[73] HOLLISTER INCORPORATED, US
[85] 2019-01-07
[86] 2017-07-07 (PCT/US2017/041127)
[87] (WO2018/009818)
[30] US (62/359,897) 2016-07-08

[11] **3,032,066**
[13] C

[51] **Int.Cl. C08G 69/36 (2006.01) B29C 48/08 (2019.01) B32B 27/08 (2006.01) B32B 37/15 (2006.01) C08J 5/18 (2006.01) C08L 77/06 (2006.01)**

[25] EN
[54] **POLYAMIDE 6 RESINS CONTAINING A LOW LEVEL OF POLYAMIDE 66 COMONOMER**

[54] **RESINES DE POLYAMIDE 6 CONTENANT UN FAIBLE NIVEAU DE COMONOMERE DE POLYAMIDE 66**

[72] PARK, KUIL, US
[72] PORTER, SIMON J., US
[72] BARTHE, STEPHANIE C., US
[72] LIU, HAoyu, US
[72] NELLIAPPAN, VEERA, US
[73] ADVANSIX RESINS & CHEMICALS LLC, US
[85] 2019-01-25
[86] 2017-07-14 (PCT/US2017/042160)
[87] (WO2018/022328)
[30] US (62/367,753) 2016-07-28
[30] US (62/434,698) 2016-12-15

[11] **3,032,374**
[13] C

[51] **Int.Cl. H04M 3/523 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR BENCHMARKING PAIRING STRATEGIES IN A TASK ASSIGNMENT SYSTEM**

[54] **TECHNIQUES D'ANALYSE COMPARATIVE DE STRATEGIES D'APPARIEMENT DANS UN SYSTEME D'ATTRIBUTION DE TACHE**

[72] CHISHTI, ZIA, US
[72] HUDSON, DAVID ZACHARY, US
[72] DAVIS, PHIL, US
[72] MERCHANT, AKBAR A., US
[72] KAN, ITTAI, US
[73] AFINITI, LTD., BM
[85] 2019-01-31
[86] 2018-07-18 (PCT/IB2018/000886)
[87] (WO2019/092487)
[30] US (15/807,227) 2017-11-08
[30] US (15/807,215) 2017-11-08

[11] **3,033,360**
[13] C

[51] **Int.Cl. H01F 38/00 (2006.01) H01F 29/14 (2006.01)**

[25] EN
[54] **FREQUENCY MODULATION FOR MAGNETIC PRESSURE PULSE TOOL**

[54] **MODULATION DE FREQUENCE D'UN OUTIL A IMPULSION DE PRESSION MAGNETIQUE**

[72] PRIETO, CARLOS, US
[72] FREEMAN, JAMES JOSEPH, US
[72] EWING, DANIEL, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2019-02-07
[86] 2017-08-10 (PCT/US2017/046289)
[87] (WO2018/031766)
[30] US (62/374,150) 2016-08-12
[30] US (15/343,722) 2016-11-04

[11] **3,033,759**
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **SEA LICE VACCINE**

[54] **VACCIN CONTRE LE POU DU POISSON**

[72] DE LA FUENTE GARCIA, JOSE DE JESUS, ES
[72] CONTRERAS ROJO, MARINELA, ES
[72] VILLAR RAYO, MARGARITA MARIA, ES
[72] DE FEIJTER KARLSEN, MARIUS ANDRE, NO
[72] BRUDESETH, BJORN ERIK, NO
[72] LINDMO YTTREDAL, KARINE, NO
[72] WIIK-NIELSEN, CHRISTER ROSS, NO
[72] OLSEN, ROLF HETLELID, NO
[72] HUNGERHOLDT, LIV BLOM, NO
[73] PHARMAQ AS, NO
[85] 2019-02-12
[86] 2017-08-16 (PCT/US2017/047095)
[87] (WO2018/035199)
[30] US (62/376,016) 2016-08-17

[11] **3,034,220**
[13] C

[51] **Int.Cl. G01L 19/00 (2006.01) G01L 19/06 (2006.01)**

[25] EN
[54] **THERMOELECTRIC HEATING, COOLING AND POWER GENERATION FOR DIRECT MOUNT AND DUAL COMPARTMENT FILL REMOTE SEAL SYSTEMS**

[54] **CHAUFFAGE, REFROIDISSEMENT ET PRODUCTION D'ENERGIE THERMOELECTRIQUES POUR MONTAGE DIRECT ET SYSTEMES D'ETANCHEITE A DISTANCE A REMPLISSAGE A DOUBLE COMPARTIMENT**

[72] FADELL, PAUL RYAN, US
[73] P I COMPONENTS CORPORATION, US
[85] 2019-02-15
[86] 2016-09-27 (PCT/US2016/053895)
[87] (WO2018/063148)

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[11] **3,035,000**
[13] C

[51] **Int.Cl. H04B 7/0456 (2017.01) H04B 7/06 (2006.01)**
[25] EN
[54] **UPLINK TRANSMISSION/RECEPTION METHOD IN WIRELESS COMMUNICATION SYSTEM AND DEVICE THEREFOR**
[54] **PROCEDE DE TRANSMISSION/RECEPTION DE LIAISON MONTANTE DANS UN SYSTEME DE COMMUNICATION SANS FIL, ET DISPOSITIF ASSOCIE**
[72] PARK, JONGHYUN, KR
[72] KANG, JIWON, KR
[72] KIM, KIJUN, KR
[72] PARK, HAEWOOK, KR
[73] LG ELECTRONICS INC., KR
[85] 2019-02-25
[86] 2017-09-26 (PCT/KR2017/010628)
[87] (WO2018/056789)
[30] US (62/400,077) 2016-09-26
[30] US (62/401,961) 2016-09-30
[30] US (62/416,682) 2016-11-02

[11] **3,035,083**
[13] C

[51] **Int.Cl. B65D 43/16 (2006.01) A47G 19/24 (2006.01) B65D 25/20 (2006.01) B65D 47/08 (2006.01) B65D 51/24 (2006.01) B65D 83/06 (2006.01)**
[25] EN
[54] **THREE DOOR LID AND CONTAINER UTILIZING THE SAME**
[54] **COUVERCLE A TROIS OUVERTURES ET RECIPIENT UTILISANT LEDIT COUVERCLE A TROIS OUVERTURES**
[72] WILSON, TRACIE L.C., US
[72] GIESKE, THOMAS KOLL PORTER, US
[72] PUGNE, DARIN, US
[72] BEATY, ADAM, US
[72] ANKNEY, DON, US
[72] MYERS, RON, US
[72] WEBSTER, CHARLES A, US
[72] GETSY, STEPHEN B., US
[72] CARLILE, DEWEY, US
[73] MCCORMICK & COMPANY, INCORPORATED, US
[85] 2019-02-25
[86] 2017-09-18 (PCT/US2017/052062)
[87] (WO2018/053426)
[30] US (62/396,578) 2016-09-19

[11] **3,035,812**
[13] C

[51] **Int.Cl. B01J 8/02 (2006.01) C07D 311/80 (2006.01)**
[25] EN
[54] **WATERLESS DECARBOXYLATION**
[54] **DECARBOXYLATION SANS EAU**
[72] LINDSAY, SHANEL A., US
[73] ARDENT LIFE INC., US
[85] 2019-03-01
[86] 2016-09-01 (PCT/US2016/049974)
[87] (WO2017/040836)
[30] US (62/213,968) 2015-09-03

[11] **3,036,565**
[13] C

[51] **Int.Cl. H04L 12/28 (2006.01) H04W 4/00 (2018.01) H04W 24/00 (2009.01) H04W 64/00 (2009.01)**
[25] EN
[54] **RF ANTENNA SECTOR MONITORING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE SURVEILLANCE DE SECTEUR D'ANTENNE RF**
[72] SCHIPANI, MATTHEW, US
[73] WATERFORD CONSULTANTS LLC, US
[85] 2019-03-11
[86] 2017-09-15 (PCT/US2017/051802)
[87] (WO2018/053279)
[30] US (62/395,705) 2016-09-16

[11] **3,037,958**
[13] C

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61P 17/00 (2006.01)**
[25] EN
[54] **GLITAZONES FOR TOPICAL APPLICATION**
[54] **GLITAZONES POUR APPLICATION TOPIQUE**
[72] SUGARMAN, JEFFREY L., US
[73] SUGARMAN, JEFFREY L., US
[85] 2019-03-21
[86] 2018-02-21 (PCT/US2018/018907)
[87] (WO2018/156552)
[30] US (62/461,878) 2017-02-22

[11] **3,038,227**
[13] C

[51] **Int.Cl. H04B 7/04 (2017.01)**
[25] EN
[54] **BEAM MEASUREMENT METHOD, TERMINAL AND NETWORK DEVICE**
[54] **PROCEDE DE MESURAGE DE FAISCEAU, TERMINAL, ET DISPOSITIF DE RESEAU**
[72] YANG, NING, CN
[72] XU, HUA, CA
[72] TANG, HAI, CN
[72] LIN, YANAN, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-03-25
[86] 2016-11-04 (PCT/CN2016/104779)
[87] (WO2018/082064)

[11] **3,038,390**
[13] C

[51] **Int.Cl. E21C 45/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **HORIZONTAL LINE DRIVE SELECTIVE SOLUTION MINING METHODS**
[54] **METHODES D'EXPLOITATION MINIERE DE SOLUTIONS SELECTIVES A ENTRAINEMENT SUR UNE LIGNE HORIZONTALE**
[72] HARDAGE, QUINTON, CA
[72] HALABURA, STEPHEN PHILIP, CA
[73] BUFFALO POTASH CORP., CA
[86] (3038390)
[87] (3038390)
[22] 2019-03-29
[30] US (62/677,619) 2018-05-29

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[11] **3,040,719**
[13] C

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 31/4184 (2006.01) A61K 31/7048 (2006.01) A61P 33/10 (2006.01)**

[25] EN

[54] **GRANULATED ANTHELMINTIC PREPARATIONS AND DELIVERY SYSTEMS**

[54] **PREPARATIONS ANTHELMINTIQUES GRANULEES**

[72] CLEVERLY, DOUGLAS ROBERT, NZ

[72] MUKHOPADHYAY, DEBASHIS, NZ

[73] ARGENTA INNOVATION LIMITED, NZ

[86] (3040719)

[87] (3040719)

[22] 2010-09-07

[62] 2,777,225

[30] NZ (579546) 2009-09-07

[30] NZ (579545) 2009-09-07

[30] NZ (579544) 2009-09-07

[11] **3,041,151**
[13] C

[51] **Int.Cl. H04W 24/08 (2009.01) H04W 72/04 (2009.01)**

[25] EN

[54] **ANTENNA PORT CONFIGURATION METHOD AND APPARATUS**

[54] **PROCEDE ET DISPOSITIF D'ATTRIBUTION DE PORT D'ANTENNE**

[72] XU, CHAO, CN

[72] WANG, PENG, CN

[73] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2019-04-18

[86] 2016-10-21 (PCT/CN2016/102927)

[87] (WO2018/072204)

[11] **3,041,562**
[13] C

[51] **Int.Cl. B22D 11/00 (2006.01) B22D 11/12 (2006.01) C22C 1/02 (2006.01) C22C 21/02 (2006.01) C22C 21/06 (2006.01) C22C 21/08 (2006.01) C22C 21/12 (2006.01) C22C 21/14 (2006.01) C22C 21/16 (2006.01) C22F 1/04 (2006.01) C22F 1/043 (2006.01) C22F 1/047 (2006.01) C22F 1/05 (2006.01) C22F 1/057 (2006.01)**

[25] EN

[54] **HIGH STRENGTH 6XXX SERIES ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME**

[54] **ALLIAGES D'ALUMINIUM DE SERIE 6XXX HAUTE RESISTANCE ET PROCEDES POUR LES FABRIQUER**

[72] DAS, SAZOL KUMAR, US

[72] FELBERBAUM, MILAN, US

[73] NOVELIS INC., US

[85] 2019-04-23

[86] 2017-09-27 (PCT/US2017/053749)

[87] (WO2018/080710)

[30] US (62/413,740) 2016-10-27

[30] US (62/413,591) 2016-10-27

[30] US (62/505,944) 2017-05-14

[30] US (62/529,028) 2017-07-06

[11] **3,041,740**
[13] C

[51] **Int.Cl. H04W 16/02 (2009.01)**

[25] EN

[54] **METHOD FOR TRANSMITTING UPLINK SIGNAL, TERMINAL DEVICE AND NETWORK SIDE DEVICE**

[54] **PROCEDE D'EMISSION DE SIGNAL DE LIAISON MONTANTE, DISPOSITIF TERMINAL ET DISPOSITIF COTE RESEAU**

[72] TANG, HAI, CN

[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2019-04-25

[86] 2016-11-03 (PCT/CN2016/104476)

[87] (WO2018/081991)

[11] **3,043,231**
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR STABLE AND EFFICIENT RESERVOIR SIMULATION USING STABILITY PROXIES**

[54] **PROCEDE ET SYSTEME DE SIMULATION DE RESERVOIR STABLE ET EFFICACE A L'AIDE D'INDICATEURS DE STABILITE**

[72] YANG, YAHAN, US

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[85] 2019-05-07

[86] 2017-11-30 (PCT/US2017/063966)

[87] (WO2018/118374)

[30] US (62/438,619) 2016-12-23

[11] **3,043,707**
[13] C

[51] **Int.Cl. H04L 9/30 (2006.01) G06Q 20/40 (2012.01) G06F 21/62 (2013.01) H04L 9/14 (2006.01)**

[25] EN

[54] **DIFFERENTIAL CLIENT-SIDE ENCRYPTION OF INFORMATION ORIGINATING FROM A CLIENT**

[54] **CHIFFREMENT DIFFERENTIEL COTE CLIENT SUR DES INFORMATIONS PROVENANT D'UN CLIENT**

[72] MANGES, DANIEL, US

[73] PAYPAL, INC., US

[86] (3043707)

[87] (3043707)

[22] 2012-10-01

[62] 2,850,356

[30] US (61/541875) 2011-09-30

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[11] **3,046,490**
[13] C

[51] **Int.Cl. B65D 25/08 (2006.01) A61L 2/18 (2006.01) B65D 71/06 (2006.01) B65D 75/30 (2006.01) B65D 75/38 (2006.01) B65D 81/32 (2006.01)**

[25] EN

[54] **CLEANING KIT**

[54] **KIT DE NETTOYAGE**

[72] CAPOTOSTO, DAVID, US

[72] AUTRY, JUSTIN J., US

[72] KELLEY, WHITMORE B., US

[72] FAILE, SUSAN E., US

[73] BERKSHIRE HOLDING CORPORATION, US

[85] 2019-06-07

[86] 2017-12-11 (PCT/US2017/065573)

[87] (WO2018/107154)

[30] US (62/431,828) 2016-12-09

[11] **3,046,496**
[13] C

[51] **Int.Cl. H02G 3/18 (2006.01) F04D 25/08 (2006.01) F21V 23/06 (2006.01) H01R 9/24 (2006.01) H01R 33/00 (2006.01) F21V 21/02 (2006.01)**

[25] EN

[54] **COMBINATION OF POWER OUTLET AND PLUG-IN MEMBER FOR PLUGGING ELECTRICAL FIXTURES IN AN ELECTRICAL BOX**

[54] **ENSEMBLE PRISE DE COURANT ET ELEMENT ENFICHABLE POUR BRANCHEMENT D'APPAREILS D'ECLAIRAGE DANS UN COFFRET ELECTRIQUE**

[72] AUDY, MARC, CA

[73] AUDY, MARC, CA

[86] (3046496)

[87] (3046496)

[22] 2019-06-14

[30] GB (1900321.9) 2019-01-09

[11] **3,046,784**
[13] C

[51] **Int.Cl. B60N 2/30 (2006.01) B60K 17/22 (2006.01) B60K 17/34 (2006.01) F16D 9/06 (2006.01)**

[25] EN

[54] **SIDE-BY-SIDE VEHICLE**

[54] **VEHICULE A SIEGES COTE A COTE**

[72] HOLLMAN, KEITH A., US

[72] WHITING, MICHAEL J., US

[72] WOZNIAK, EVAN R., US

[72] PLUGGE, JASON CARL, US

[72] WEBER, DANIEL S., US

[72] RIPLEY, ANTHONY J., US

[72] HER, NA, US

[72] SEIDEL, BRIAN J., US

[72] OLSEN, RUSSEL G., US

[72] VRUNDY, MICHAEL GEORGE, US

[72] DICKEY, COLIN R., US

[72] JOHNSON, CLINTON A., US

[72] KNUTSON, KELLY J., US

[73] POLARIS INDUSTRIES INC., US

[85] 2019-06-11

[86] 2017-09-28 (PCT/US2017/054006)

[87] (WO2018/118176)

[30] US (62/438,267) 2016-12-22

[30] US (15/631,874) 2017-06-23

[11] **3,047,478**
[13] C

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/10 (2020.01) A24F 40/90 (2020.01) A24B 15/16 (2020.01) H02J 7/00 (2006.01)**

[25] EN

[54] **ELECTRONIC SMOKING DEVICE WITH DOSAGE CONTROL**

[54] **DISPOSITIF ELECTRONIQUE POUR FUMER AVEC CONTROLE DU DOSAGE**

[72] ALARCON, RAMON, US

[72] HEALY, JASON, US

[73] FONTEM HOLDINGS 4 B.V., NL

[86] (3047478)

[87] (3047478)

[22] 2011-05-02

[62] 2,959,909

[30] US (61/330,140) 2010-04-30

[11] **3,047,534**
[13] C

[51] **Int.Cl. G01S 7/497 (2006.01) G01S 7/481 (2006.01) G01S 7/495 (2006.01)**

[25] EN

[54] **LIGHT DETECTION AND RANGING (LIDAR) DEVICE WITH AN OFF-AXIS RECEIVER**

[54] **DISPOSITIF DE DETECTION ET DE LOCALISATION PAR LA LUMIERE (LIDAR) AVEC UN RECEPTEUR HORS AXE**

[72] DROZ, PIERRE-YVES, US

[72] VERGHESE, SIMON, US

[73] WAYMO LLC, US

[85] 2019-06-18

[86] 2017-12-13 (PCT/US2017/066133)

[87] (WO2018/125573)

[30] US (15/396,476) 2016-12-31

[11] **3,047,565**
[13] C

[51] **Int.Cl. A01K 47/06 (2006.01) A01G 7/06 (2006.01) A01K 51/00 (2006.01)**

[25] EN

[54] **APPARATUS FOR TREATMENT OF PLANTS**

[54] **APPAREIL DE TRAITEMENT DES PLANTES**

[72] COLLINSON, MICHAEL HOWARD D. HEARN, CA

[72] MASON, TODD GORDON, CA

[72] SUTTON, JOHN CLIFFORD, CA

[72] KEVAN, PETER G., CA

[73] BEE VECTORING TECHNOLOGY INC., CA

[86] (3047565)

[87] (3047565)

[22] 2012-04-03

[62] 2,934,312

[30] US (61/472,872) 2011-04-07

[30] US (61/609,549) 2012-03-12

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[11] **3,047,819**
[13] C

[51] **Int.Cl. F23R 3/28 (2006.01) F23D 14/22 (2006.01)**
[25] EN
[54] **BURNER TIP FOR FITTING IN A BURNER WITH AIR DUCT SYSTEM AND FUEL CHANNEL SYSTEM AND METHOD FOR THE PRODUCTION THEREOF**
[54] **POINTE DE BRULEUR DESTINEE A ETRE MONTEE DANS UN BRULEUR COMPRENANT UN SYSTEME DE CONDUIT D'AIR ET UN SYSTEME DE CONDUIT DE COMBUSTIBLE ET PROCEDE DE FABRICATION ASSOCIE**
[72] HOCKLEY, CARL, DE
[72] KIENER, CHRISTOPH, DE
[72] KREUTZER, ANDREAS, DE
[72] KUSTERS, YVES, DE
[72] SALCHER, MATTHIAS, DE
[73] SIEMENS AKTIENGESSELLSCHAFT, DE
[85] 2019-06-20
[86] 2017-12-19 (PCT/EP2017/083495)
[87] (WO2018/114918)
[30] DE (10 2016 226 061.8) 2016-12-22

[11] **3,048,502**
[13] C

[51] **Int.Cl. A47B 47/02 (2006.01) A47B 61/00 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL BREATHABLE STORAGE CABINET**
[54] **COMPARTIMENT DE RANGEMENT PERMEABLE A L'AIR MULTIFONCTIONNEL**
[72] CAO, XIN, CN
[73] CAO, XIN, CN
[86] (3048502)
[87] (3048502)
[22] 2019-07-03
[30] CN (201920912252.X) 2019-06-18

[11] **3,048,588**
[13] C

[51] **Int.Cl. C02F 11/125 (2019.01) C02F 11/121 (2019.01) A01C 3/00 (2006.01) B30B 9/12 (2006.01)**
[25] EN
[54] **SCREW PRESS HAVING SCREEN VIBRATION**
[54] **PRESSE A VIS EQUIPEE D'UN TAMIS DE VIBRATION**
[72] ALLARD, JASMIN, CA
[72] MARTIN, BENOIT, CA
[73] V.Y.F. EXPRESS INC., CA
[86] (3048588)
[87] (3048588)
[22] 2019-07-04
[30] US (16/224,426) 2018-12-18
[30] US (16/434,796) 2019-06-07
[30] US (62/841,554) 2019-05-01

[11] **3,048,675**
[13] C

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/39 (2006.01) A61K 8/49 (2006.01) A61K 47/08 (2006.01) A61K 47/22 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **ANTIOXIDANTS FOR COSMETICS AND PHARMACEUTICAL COMPOSITIONS CONTAINING GLYCEROL ALKYL ETHERS**
[54] **ANTIOXYDANTS POUR DES COMPOSITIONS COSMETIQUES ET PHARMACEUTIQUES CONTENANT DES ETHERS D'ALKYLE DE GLYCEROL**
[72] ENGEL, TIM, NL
[73] SACHEM, INC., US
[85] 2019-06-26
[86] 2017-12-21 (PCT/US2017/067780)
[87] (WO2018/125734)
[30] US (62/439,954) 2016-12-29
[30] US (62/475,977) 2017-03-24

[11] **3,049,136**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SUBSTITUTED PYRAZOLO[1,5-A]PYRAZINE COMPOUNDS AS RET KINASE INHIBITORS**
[54] **COMPOSES DE PYRAZOLO[1,5-A]PYRAZINE SUBSTITUES UTILISES EN TANT QU'INHIBITEURS DE LA KINASE RET**
[72] ANDREWS, STEVEN W., US
[72] BLAKE, JAMES F., US
[72] HAAS, JULIA, US
[72] JIANG, YUTONG, US
[72] KOLAKOWSKI, GABRIELLE R., US
[72] MORENO, DAVID A., US
[72] REN, LI, US
[72] WALLS, SHANE M., US
[73] ARRAY BIOPHARMA INC., US
[85] 2019-07-02
[86] 2018-01-18 (PCT/US2018/014279)
[87] (WO2018/136661)
[30] US (62/447,862) 2017-01-18

[11] **3,049,855**
[13] C

[51] **Int.Cl. C08B 5/14 (2006.01) C08B 7/00 (2006.01) C08B 15/00 (2006.01)**
[25] EN
[54] **SULFURIC ACID ESTERIFICATION MODIFIED CELLULOSE NANOFIBERS AND METHOD FOR PRODUCING CELLULOSE NANOFIBERS**
[54] **NANOFIBRES DE CELLULOSE MODIFIEES PAR ESTERIFICATION D'ACIDE SULFURIQUE ET PROCEDE DE PRODUCTION DE NANOFIBRES DE CELLULOSE**
[72] LIN, LIANZHEN, JP
[72] HORI, MASANORI, JP
[72] MARUTA, AYAKO, JP
[73] YOKOGAWA ELECTRIC CORPORATION, JP
[85] 2019-07-10
[86] 2018-01-16 (PCT/JP2018/001070)
[87] (WO2018/131721)
[30] JP (2017-005293) 2017-01-16
[30] JP (2017-102915) 2017-05-24
[30] JP (2017-183063) 2017-09-22

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[11] **3,049,864**
[13] C

- [51] **Int.Cl. F01D 25/24 (2006.01) F01D 9/02 (2006.01) F02C 7/20 (2006.01) F23R 3/00 (2006.01)**
[25] EN
[54] **UNITARY FLOW PATH STRUCTURE**
[54] **STRUCTURE DE VOIE D'ÉCOULEMENT UNITAIRE**
[72] NOE, MARK EUGENE, US
[72] PEARSON, SHAWN MICHAEL, US
[72] MOOK, JOSHUA TYLER, US
[72] REYNOLDS, BRANDON ALLANSON, US
[72] BALDIGA, JONATHAN DAVID, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2019-07-10
[86] 2017-12-06 (PCT/US2017/064794)
[87] (WO2018/140135)
[30] US (15/417,399) 2017-01-27

[11] **3,050,318**
[13] C

- [51] **Int.Cl. B01D 17/05 (2006.01)**
[25] EN
[54] **HIGH TEMPERATURE TOLERANT, MODIFIED CATIONIC STARCH-BASED ADDITIVES FOR WATER CLARIFICATION**
[54] **ADDITIFS A BASE D'AMIDON CATIONIQUE MODIFIÉ ET TOLERANT LES TEMPERATURES ÉLEVÉES POUR LA CLARIFICATION DE L'EAU**
[72] TOMLA, CHRISTABEL, US
[72] JAKUBOWSKI, WOJCIECH, US
[72] THOMAS, JASON, CA
[73] BAKER HUGHES HOLDINGS LLC, US
[86] (3050318)
[87] (3050318)
[22] 2019-07-22
[30] US (62/702071) 2018-07-23
[30] US (16/517241) 2019-07-19

[11] **3,050,828**
[13] C

- [51] **Int.Cl. A61K 31/473 (2006.01) A61K 31/11 (2006.01) A61K 31/22 (2006.01) A61K 31/366 (2006.01) A61K 31/4704 (2006.01) A61P 11/00 (2006.01) A61P 19/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **USE OF CYTOCHROME BC1 COMPLEX INHIBITOR IN PREPARING PHARMACEUTICAL COMPOSITION**
[54] **UTILISATION D'UN INHIBITEUR DU COMPLEXE CYTOCHROME BC1 DANS LA PRÉPARATION D'UNE COMPOSITION PHARMACEUTIQUE**
[72] CONG, YUWEN, CN
[73] BEIJING WEILANZHUYUAN MEDICAL TECHNOLOGY CO., LTD., CN
[85] 2019-07-18
[86] 2018-01-22 (PCT/CN2018/073609)
[87] (WO2018/133862)
[30] CN (201710053062.2) 2017-01-22
[30] CN (201710060825.6) 2017-01-25
[30] CN (201710070661.5) 2017-02-09

[11] **3,051,267**
[13] C

- [51] **Int.Cl. F24F 11/00 (2018.01) F24F 5/00 (2006.01)**
[25] EN
[54] **HVAC CONTROL SYSTEM WITH USER INTERFACE PROVIDED BY A MOBILE WIRELESS DEVICE**
[54] **SYSTÈME DE COMMANDE DE SYSTÈME CVC AVEC INTERFACE UTILISATEUR FOURNIE PAR UN DISPOSITIF SANS FIL MOBILE**
[72] GONIA, PATRICK, US
[72] JUNTUNEN, ROBERT D., US
[73] ADEMCO INC., US
[85] 2018-12-07
[86] 2017-06-06 (PCT/US2017/036173)
[87] (WO2017/214163)
[30] US (15/179,553) 2016-06-10

[11] **3,051,407**
[13] C

- [51] **Int.Cl. A61M 25/10 (2013.01) A61B 17/00 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **INFLATABLE MEDICAL BALLOON WITH VARIABLE PROFILE**
[54] **BALLONNET MÉDICAL GONFLABLE À PROFIL VARIABLE**
[72] NEAL, SCOTT, US
[73] C.R. BARD, INC., US
[85] 2019-07-23
[86] 2018-01-25 (PCT/US2018/015200)
[87] (WO2018/140583)
[30] US (15/415,226) 2017-01-25

[11] **3,052,766**
[13] C

- [51] **Int.Cl. F23R 3/34 (2006.01) F01D 25/06 (2006.01) F23N 5/24 (2006.01) G01H 13/00 (2006.01)**
[25] EN
[54] **METHOD FOR MINIMIZING FORCES ACTING ON TURBINE BLADES IN SPECIFIC FREQUENCY RANGES**
[54] **PROCÉDE POUR RÉDUIRE AU MINIMUM LES FORCES AGISSANT SUR DES AUBES DE TURBINE DANS DES PLAGES DE FREQUENCES SPECIFIQUES**
[72] FURI, MARC, CA
[73] SIEMENS AKTIENGESSELLSCHAFT, DE
[85] 2019-08-06
[86] 2017-02-08 (PCT/US2017/016881)
[87] (WO2018/147837)

[11] **3,054,363**
[13] C

- [51] **Int.Cl. G06Q 10/00 (2012.01)**
[25] EN
[54] **BUSINESS VERIFICATION METHOD AND APPARATUS**
[54] **APPAREIL ET PROCÉDE DE VERIFICATION D'ENTREPRISE**
[72] LI, NING, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-08-22
[86] 2018-02-22 (PCT/US2018/019228)
[87] (WO2018/156763)
[30] CN (201710096987.5) 2017-02-22

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[11] **3,055,774**
[13] C
[51] **Int.Cl. B32B 15/08 (2006.01) H01Q 1/27 (2006.01) H01Q 1/28 (2006.01) H01Q 1/42 (2006.01)**
[25] EN
[54] **AIRCRAFT RADOMES WITH BROADBAND TRANSPARENCY**
[54] **RADOMES D'AERONEF A TRANSPARENCE A LARGE BANDE**
[72] AMMAR, DAN, US
[73] VU SYSTEMS, LLC, US
[85] 2019-09-06
[86] 2018-04-23 (PCT/US2018/028818)
[87] (WO2018/204107)
[30] US (62/500,311) 2017-05-02

[11] **3,056,146**
[13] C
[51] **Int.Cl. F41A 17/06 (2006.01) F41A 17/00 (2006.01) F41A 17/08 (2006.01) F41A 17/30 (2006.01) F41A 17/56 (2006.01) F41A 17/58 (2006.01)**
[25] EN
[54] **SELECTIVELY DISABLED AMMUNITION AND REMOTE AMMUNITION DISABLING SYSTEM AND METHOD OF USE**
[54] **MUNITION SELECTIVEMENT DESACTIVEE, SYSTEME DE DESACTIVATION DE MUNITION A DISTANCE, ET PROCEDE D'UTILISATION**
[72] PALO, JOSEPH DAN, US
[73] JD PHARMA, LLC, US
[85] 2019-09-11
[86] 2017-03-11 (PCT/US2017/021986)
[87] (WO2017/160665)
[30] US (62/307,977) 2016-03-14

[11] **3,057,073**
[13] C
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **DETERMINING PRODUCT PLACEMENT COMPLIANCE**
[54] **DETERMINATION DE CONFORMITE DE PLACEMENT DE PRODUIT**
[72] MURTHY, GANAPA SASHIDHARA, US
[72] YOUSEF, DANIEL BRIAN, US
[73] KELLOGG COMPANY, US
[85] 2019-09-18
[86] 2018-03-15 (PCT/US2018/022671)
[87] (WO2018/175203)
[30] US (15/464,777) 2017-03-21

[11] **3,057,278**
[13] C
[51] **Int.Cl. B60P 1/43 (2006.01) B62D 31/02 (2006.01)**
[25] EN
[54] **PASSENGER VEHICLE WITH A SLIDABLE RAMP PLATFORM**
[54] **VEHICULE PASSAGER COMPORTANT UNE PLATEFORME DE RAMPE COULISSANTE**
[72] PFISTER, BRYCE, US
[72] STEFEK, CODY, US
[72] WELCH, JOHN, US
[72] FILLENWORTH, TRENT, US
[73] COLLINS BUS CORPORATION, US
[86] (3057278)
[87] (3057278)
[22] 2019-10-01
[30] US (16/578,715) 2019-09-23

[11] **3,057,294**
[13] C
[51] **Int.Cl. B32B 5/20 (2006.01) B32B 37/24 (2006.01) B32B 38/00 (2006.01) C08G 18/08 (2006.01) C08J 9/14 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING ISOCYANATE-BASED FOAM CONSTRUCTION BOARDS**
[54] **PROCEDE DE PRODUCTION DE PANNEAUX DE CONSTRUCTION EN MOUSSE A BASE D'ISOCYANATE**
[72] LETTS, JOHN B., US
[72] YAO, CHUNHUA, US
[72] HUBBARD, MICHAEL J., US
[73] FIRESTONE BUILDING PRODUCTS COMPANY, LLC, US
[85] 2019-09-19
[86] 2018-03-19 (PCT/US2018/023134)
[87] (WO2018/175316)
[30] US (62/473,752) 2017-03-20
[30] US (62/473,725) 2017-03-20

[11] **3,057,817**
[13] C
[51] **Int.Cl. H04L 1/00 (2006.01) H03M 13/13 (2006.01)**
[25] EN
[54] **METHOD FOR PERFORMING ENCODING ON BASIS OF PARITY CHECK MATRIX OF LOW DENSITY PARITY CHECK (LDPC) CODE IN WIRELESS COMMUNICATION SYSTEM AND TERMINAL USING SAME**
[54] **PROCEDE POUR EFFECTUER UN CODAGE SUR LA BASE D'UNE MATRICE DE CONTROLE DE PARITE DE CODE DE CONTROLE DE PARITE A FAIBLE DENSITE (LDPC) DANS UN SYSTEME DE COMMUNICATION SANS FIL ET TERMINAL L'UTILISANT**
[72] BYUN, ILMU, KR
[72] SHIN, JONGWOONG, KR
[72] KIM, JINWOO, KR
[72] NOH, KWANGSEOK, KR
[72] KIM, BONGHOE, KR
[73] LG ELECTRONICS INC., KR
[85] 2019-09-24
[86] 2018-03-30 (PCT/KR2018/003798)
[87] (WO2018/182369)
[30] US (62/479,253) 2017-03-30
[30] US (62/479,420) 2017-03-31
[30] US (62/525,219) 2017-06-27

[11] **3,058,109**
[13] C
[51] **Int.Cl. F03D 13/20 (2016.01) F03D 9/25 (2016.01)**
[25] EN
[54] **A WIND TURBINE SYSTEM**
[54] **SYSTEME D'EOLIENNE**
[72] RODWAY, GILES, GB
[72] JOACHIM, KURT JOSEPH, GB
[73] SPINETIC ENERGY LIMITED, GB
[85] 2019-09-26
[86] 2018-03-29 (PCT/GB2018/050857)
[87] (WO2018/178701)
[30] GB (1705159.0) 2017-03-30

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[11] **3,059,126**
[13] C

[51] **Int.Cl. C09K 11/08 (2006.01) C09K 11/77 (2006.01) C09K 11/80 (2006.01) G01T 1/00 (2006.01) G01T 1/02 (2006.01) G01T 1/20 (2006.01)**

[25] EN

[54] **GARNET SCINTILLATOR CO-DOPED WITH MONOVALENT ION**

[54] **SCINTILLATEUR GREMAT CO-DOPE AVEC UN ION MONOVALENT**

[72] FOSTER, CAMERA JANELLE, US

[72] WU, YUNTAO, US

[72] KOSCHAN, MERRY A., US

[72] MELCHER, CHARLES L., US

[73] UNIVERSITY OF TENNESSEE RESEARCH FOUNDATION, US

[85] 2019-10-02

[86] 2019-02-07 (PCT/US2019/016965)

[87] (WO2019/157126)

[30] US (62/627,399) 2018-02-07

[30] US (62/672,890) 2018-05-17

[11] **3,060,778**
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 43/24 (2006.01) E21B 43/241 (2006.01)**

[25] EN

[54] **PACKING ASSEMBLY AND RELATED METHODS FOR RECOVERING HYDROCARBONS VIA A SINGLE WELL**

[54] **PRESSE-GARNITURE ET PROCEDES CONNEXES DE RECUPERATION DES HYDROCARBURES AU MOYEN D'UN Puits UNIQUE**

[72] LASTIWKA, MARTIN, CA

[72] WATT, ALAN, CA

[73] SUNCOR ENERGY INC., CA

[86] (3060778)

[87] (3060778)

[22] 2019-10-31

[30] CA (3.022.710) 2018-10-31

[11] **3,060,849**
[13] C

[51] **Int.Cl. G01N 27/416 (2006.01) B82Y 15/00 (2011.01) G16H 50/20 (2018.01) H04W 4/38 (2018.01) G01N 27/30 (2006.01) G01N 27/403 (2006.01) G06K 7/10 (2006.01) G06K 19/07 (2006.01)**

[25] EN

[54] **PORTABLE ELECTROCHEMICAL-SENSOR SYSTEM FOR ANALYZING USER HEALTH CONDITIONS AND METHOD THEREOF**

[54] **SYSTEME DE CAPTEUR ELECTROCHIMIQUE PORTATIF PERMETTANT D'ANALYSER LES PROBLEMES DE SANTE DES UTILISATEURS ET SON PROCEDE**

[72] KOUL, RAMAN, CA

[72] SALAHANDISH, RAZIEH, CA

[72] WANG, GANG, CA

[72] BHAT, SUMRITA, CA

[72] VASTAREY, NIKHIL SURESH, CA

[72] KAPOOR, ANMOL SINGH, CA

[73] CARDIAI TECHNOLOGIES LTD., CA

[86] (3060849)

[87] (3060849)

[22] 2019-11-04

[30] US (62/786,180) 2018-12-28

[30] US (62/875,131) 2019-07-17

[30] US (62/755,148) 2018-11-02

[11] **3,061,297**
[13] C

[51] **Int.Cl. C22C 38/00 (2006.01) C21D 8/12 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**

[25] EN

[54] **GRAIN-ORIENTED ELECTRICAL STEEL SHEET AND METHOD FOR PRODUCING THE SAME**

[54] **TOLE D'ACIER MAGNETIQUE ORIENTEE ET SON PROCEDE DE FABRICATION**

[72] SUEHIRO, RYUICHI, JP

[72] WATANABE, MAKOTO, JP

[72] TAKAMIYA, TOSHITO, JP

[73] JFE STEEL CORPORATION, JP

[85] 2019-10-23

[86] 2018-05-10 (PCT/JP2018/018134)

[87] (WO2018/207873)

[30] JP (2017-095738) 2017-05-12

[11] **3,062,312**
[13] C

[51] **Int.Cl. G06T 7/73 (2017.01) G06T 7/33 (2017.01) A61B 8/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PREDICTIVE FUSION**

[54] **SYSTEME ET PROCEDE DE FUSION PREDICTIVE**

[72] PIPER, JONATHAN WILLIAM, US

[73] MIM SOFTWARE, INC., US

[85] 2019-11-01

[86] 2018-05-04 (PCT/US2018/031016)

[87] (WO2018/204740)

[30] US (62/501,329) 2017-05-04

[11] **3,062,493**
[13] C

[51] **Int.Cl. G06F 21/00 (2013.01) G06Q 20/38 (2012.01)**

[25] EN

[54] **IDENTITY GRAY LIST**

[54] **LISTE GRISE D'IDENTITES**

[72] NEWMAN, KAITLIN J., US

[72] MOSSOBA, MICHAEL, US

[72] BENKREIRA, ABDELKADER M., US

[72] EDWARDS, JOSHUA, US

[73] CAPITAL ONE SERVICES, LLC, US

[86] (3062493)

[87] (3062493)

[22] 2019-11-25

[30] US (16/202,948) 2018-11-28

[30] US (16/683,740) 2019-11-14

[11] **3,063,144**
[13] C

[51] **Int.Cl. G01N 33/96 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR LYSIS OF RED BLOOD CELLS**

[54] **COMPOSITIONS ET PROCEDES POUR LA LYSE DE GLOBULES ROUGES**

[72] BRITAIN, GEORGE C., IV, US

[72] GULNIK, SERGEI, US

[73] BECKMAN COULTER, INC., US

[85] 2019-11-08

[86] 2018-05-07 (PCT/US2018/031411)

[87] (WO2018/208681)

[30] US (62/503,202) 2017-05-08

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[11] **3,063,779**
[13] C
[51] **Int.Cl. B65G 15/26 (2006.01) B65G 21/10 (2006.01) B65G 41/00 (2006.01)**
[25] EN
[54] **STACKER DRIVE MODULE**
[54] **MODULE D'ENTRAÎNEMENT D'EMPILEUR**
[72] MCCLOSKEY, PASCHAL JAMES, CA
[72] NOTTINGHAM, ALLAN, CA
[72] KROL, ANDRZEJ, CA
[73] MCCLOSKEY INTERNATIONAL, LTD., CA
[85] 2019-11-15
[86] 2018-10-01 (PCT/CA2018/051230)
[87] (WO2019/068176)
[30] US (15/725,721) 2017-10-05

[11] **3,064,124**
[13] C
[51] **Int.Cl. F24H 3/04 (2022.01) F24H 15/36 (2022.01) F23D 11/46 (2006.01) F23N 1/02 (2006.01) F23N 3/02 (2006.01) F24D 5/02 (2006.01) F24D 15/02 (2006.01) F24H 9/20 (2022.01)**
[25] EN
[54] **HOT AIR BLOWER**
[54] **SOUFFLANTE A AIR CHAUD**
[72] KWAK, JAE SEOK, KR
[73] PASECO CO., LTD., KR
[86] (3064124)
[87] (3064124)
[22] 2019-12-06
[30] KR (10-2019-0129757) 2019-10-18

[11] **3,064,193**
[13] C
[51] **Int.Cl. A61K 31/522 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **THEACRINE-BASED SUPPLEMENT AND METHOD OF USE THEREOF IN A SYNERGISTIC COMBINATION WITH CAFFEINE**
[54] **SUPPLEMENT A BASE DE THEACRINE ET SON PROCEDE D'UTILISATION DANS UNE COMBINAISON SYNERGIQUE AVEC DE LA CAFFEINE**
[72] LOPEZ, HECTOR L., US
[72] WELLS, SHAWN, US
[72] ZIEGENFUSS, TIM N., US
[73] ORTHO-NUTRA, LLC, US
[85] 2019-11-18
[86] 2018-05-16 (PCT/IB2018/053410)
[87] (WO2018/211425)
[30] US (15/600,371) 2017-05-19

[11] **3,064,468**
[13] C
[51] **Int.Cl. H04L 1/18 (2006.01)**
[25] EN
[54] **RADIO LINK CONTROL TRANSMISSION METHOD AND RELATED PRODUCTS**
[54] **PROCEDE DE TRANSMISSION DE COMMANDE DE LIAISON RADIO ET PRODUITS ASSOCIES**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-11-21
[86] 2017-05-24 (PCT/CN2017/085797)
[87] (WO2018/214081)

[11] **3,064,747**
[13] C
[51] **Int.Cl. A47L 9/04 (2006.01) A47L 5/22 (2006.01) A47L 11/24 (2006.01)**
[25] EN
[54] **ROBOTIC CLEANER WITH DUAL CLEANING ROLLERS**
[54] **DISPOSITIF DE NETTOYAGE ROBOTISE A ROULEAUX DE NETTOYAGE DOUBLES**
[72] CARTER, STEVEN P., GB
[72] THORNE, JASON B., US
[72] DER MARDEROSIAN, DANIEL R., US
[72] MEYER, DANIEL, US
[72] CLEARY, PATRICK, US
[72] HOWES, GORDON, CN
[72] WU, DAVID, US
[72] GAO, WENXIU, CN
[72] UDY, ADAM, GB
[72] SUTTER, CATRIONA A., US
[72] PINCHES, CHRISTOPHER, GB
[72] CLARE, DAVID S., GB
[72] BROWN, ANDRE D., US
[72] FREESE, JOHN, US
[72] CALVINO, ALEXANDER J., US
[72] COTTRELL, LEE, US
[72] INNES, DANIEL J., US
[72] JALBERT, DAVID, US
[72] HUTCHINSON, PETER, CN
[72] POIRIER, DAVID W., US
[73] SHARKNINJA OPERATING LLC, US
[85] 2019-11-22
[86] 2018-05-24 (PCT/US2018/034320)
[87] (WO2018/217980)
[30] US (62/511,099) 2017-05-25

[11] **3,065,410**
[13] C
[51] **Int.Cl. B65B 3/04 (2006.01)**
[25] EN
[54] **METHOD FOR IN SITU MIXING OF LIQUID COMPOSITIONS WITH OFFSET LIQUID INFLUX**
[54] **PROCEDE DE MELANGE IN SITU DE COMPOSITIONS LIQUIDES AVEC AFFLUX DE LIQUIDE EN DECALAGE**
[72] CHEN, HONGLING, CN
[72] NG, BOON HO, CN
[72] GU, CHONG, CN
[72] ZHANG, QI, CN
[72] CAPECI, SCOTT WILLIAM, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-11-28
[86] 2017-06-08 (PCT/CN2017/087538)
[87] (WO2018/223326)

[11] **3,065,492**
[13] C
[51] **Int.Cl. H04N 19/139 (2014.01) H04N 19/122 (2014.01) H04N 19/172 (2014.01) H04N 19/176 (2014.01)**
[25] EN
[54] **METHOD AND DEVICE FOR VIDEO SIGNAL PROCESSING**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE SIGNAL VIDEO**
[72] LEE, BAE KEUN, KR
[73] KT CORPORATION, KR
[85] 2019-11-28
[86] 2018-05-16 (PCT/KR2018/005584)
[87] (WO2018/212578)
[30] KR (10-2017-0061086) 2017-05-17

[11] **3,065,688**
[13] C
[51] **Int.Cl. A21C 11/00 (2006.01) A21C 14/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR FORMING DOUGH PIECES**
[54] **DISPOSITIF ET METHODE POUR FORMER DES PATONS**
[72] BERNHARDT, UDO, DE
[72] WAGNER, RAINER, DE
[73] FRITSCH BAKERY TECHNOLOGIES GMBH & CO. KG, DE
[86] (3065688)
[87] (3065688)
[22] 2019-12-18
[30] EP (18 213 815.6) 2018-12-19

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[11] **3,066,075**
[13] C

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[25] EN
[54] **HYDROPHILIZED MATERIAL, HYDROPHILIZED MEMBER, AND GAS-LIQUID CONTACT APPARATUS IN WHICH SAME IS USED**
[54] **MATERIAU HYDROPHILISE, ELEMENT HYDROPHILISE ET DISPOSITIF DE CONTACT GAZ-LIQUIDE DANS LEQUEL CELUI-CI EST UTILISE**
[72] IKEDA, RYOSUKE, JP
[72] ISO, YOSHIYUKI, JP
[72] NAKAMURA, SHIKO, JP
[72] OKUHARA, HIROHITO, JP
[72] TAKANO, KENJI, JP
[73] IHI CORPORATION, JP
[85] 2019-12-03
[86] 2018-07-20 (PCT/JP2018/027328)
[87] (WO2019/021966)
[30] JP (2017-143328) 2017-07-25

[11] **3,066,216**
[13] C

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[25] EN
[54] **TEXTILE PRODUCTS COMPRISING NATURAL DOWN AND FIBROUS MATERIALS**
[54] **RODUITS TEXTILES COMPRENANT DU DUVET NATUREL ET DES MATERIAUX FIBREUX**
[72] MITTAL, KHUSHBOO, US
[72] KANDHASAMY, MOHAN MEIYAPPAN, US
[73] SYSCO GUEST SUPPLY, LLC, US
[85] 2019-12-04
[86] 2017-06-13 (PCT/US2017/037235)
[87] (WO2018/231206)

[11] **3,066,410**
[13] C

- [51] **Int.Cl. E04D 1/36 (2006.01) H02S 20/25 (2014.01) F24S 25/613 (2018.01)**
[25] EN
[54] **SIDELAP INTERCONNECT FOR PHOTOVOLTAIC ROOFING MODULES**
[54] **INTERCONNEXION DE RECOUVREMENT LATERAL DESTINEE A DES MODULES PHOTOVOLTAIQUES DE TOITURE**
[72] SEERY, MARTIN, US
[72] MOLINA, DAVID, US
[72] GUTHRIE, TREVOR B., US
[72] ANDERSON, THOMAS, US
[72] HEWLETT, JONATHAN, US
[73] TESLA, INC., US
[85] 2019-12-05
[86] 2018-06-04 (PCT/US2018/035924)
[87] (WO2018/226610)
[30] US (62/515,434) 2017-06-05
[30] US (15/686,064) 2017-08-24

[11] **3,066,916**
[13] C

- [51] **Int.Cl. H04W 52/14 (2009.01)**
[25] EN
[54] **POWER CONTROL METHOD FOR LINK AND RELATED PRODUCT**
[54] **PROCEDE DE COMMANDE DE PUISSANCE POUR LIAISON ET PRODUIT ASSOCIE**
[72] CHEN, WENHONG, CN
[72] ZHANG, ZHI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-12-11
[86] 2017-06-16 (PCT/CN2017/088606)
[87] (WO2018/227541)

[11] **3,068,250**
[13] C

- [51] **Int.Cl. F04B 11/00 (2006.01) F04B 47/00 (2006.01)**
[25] EN
[54] **VOLUMETRIC COMPENSATOR FOR ELECTRIC SUBMERSIBLE PUMP**
[54] **COMPENSATEUR VOLUMETRIQUE POUR POMPE ELECTRIQUE SUBMERSIBLE**
[72] REEVES, BRIAN PAUL, US
[72] ACACIO, VICTOR, US
[72] WANG, CHENGBAO, US
[72] SAMUDRALA, OMPRAKASH, US
[73] GE OIL & GAS ESP, INC., US
[85] 2019-12-20
[86] 2018-06-05 (PCT/US2018/036085)
[87] (WO2018/236576)
[30] US (15/632,311) 2017-06-24

[11] **3,068,374**
[13] C

- [51] **Int.Cl. A01N 35/02 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **PLANT GROWTH PROMOTER WITH STRIGOLACTONES REGULATION ACTIVITIES**
[54] **PROMOTEUR DE CROISSANCE VEGETALE AYANT DES ACTIVITES DE REGULATION DES STRIGOLACTONES**
[72] AL-BABILI, SALIM, SA
[73] KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, SA
[85] 2019-12-23
[86] 2018-06-25 (PCT/IB2018/054677)
[87] (WO2019/003089)
[30] US (62/524,803) 2017-06-26

[11] **3,068,655**
[13] C

- [51] **Int.Cl. G10L 19/008 (2013.01)**
[25] EN
[54] **DELAY ESTIMATION METHOD AND APPARATUS**
[54] **PROCEDE ET DISPOSITIF D'ESTIMATION DE RETARD TEMPREL**
[72] SHLOMOT, EYAL, US
[72] LI, HAITING, CN
[72] MIAO, LEI, CN
[73] HUAWAI TECHNOLOGIES CO., LTD., CN
[85] 2019-12-30
[86] 2018-06-11 (PCT/CN2018/090631)
[87] (WO2019/001252)
[30] CN (201710515887.1) 2017-06-29

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[11] **3,068,798**
[13] C

[51] **Int.Cl. C10L 5/14 (2006.01) C10B 53/04 (2006.01) C10L 5/04 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING COAL BRIQUETTE, AND COAL BRIQUETTE PRODUCED BY SAME**
[54] **PROCEDE DE PRODUCTION D'UNE BRIQUETTE DE CHARBON ET BRIQUETTE DE CHARBON PRODUITE PAR LEDIT PROCEDE**
[72] RYOU, JIN HO, KR
[72] PARK, WOO IL, KR
[72] KIM, JAE DONG, KR
[72] SHIN, SUNG KEE, KR
[72] PARK, SEOK IN, KR
[73] POSCO, KR
[85] 2019-12-31
[86] 2017-12-22 (PCT/KR2017/015329)
[87] (WO2019/009484)
[30] KR (10-2017-0086631) 2017-07-07

[11] **3,069,204**
[13] C

[51] **Int.Cl. C02F 11/121 (2019.01) B01D 21/28 (2006.01) B01D 61/00 (2006.01) B03B 9/02 (2006.01) C02F 1/44 (2006.01) C02F 11/12 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DEWATERING TAILINGS DEPOSITS IN SITU USING FORWARD OSMOSIS**
[54] **SYSTEME ET METHODE POUR DESHYDRATER DES DEPOTS DE RESIDUS EN SITE AU MOYEN DE L'OSMOSE DIRECTE**
[72] MARR, MICHAEL A., CA
[72] HOLLANDER, ELCO D., CA
[72] OMOTOSO, OLADIPO, CA
[72] BROWN, WAYNE A., CA
[73] SUNCOR ENERGY INC., CA
[86] (3069204)
[87] (3069204)
[22] 2020-01-23

[11] **3,069,635**
[13] C

[51] **Int.Cl. H04N 19/13 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RANGE DERIVATION IN CONTEXT ADAPTIVE BINARY ARITHMETIC CODING**
[54] **PROCEDE ET APPAREIL DE CALCUL DE PLAGE DANS UN SYSTEME DE CODAGE ARITHMETIQUE BINAIRE ADAPTATIF AU CONTEXTE**
[72] CHUANG, TZU-DER, CN
[72] CHEN, CHING-YEH, CN
[73] HFI INNOVATION INC., TW
[85] 2020-01-09
[86] 2018-07-12 (PCT/CN2018/095419)
[87] (WO2019/011292)
[30] US (62/532,389) 2017-07-14
[30] US (62/670,614) 2018-05-11
[30] US (62/678,343) 2018-05-31
[30] US (62/693,497) 2018-07-03

[11] **3,068,912**
[13] C

[51] **Int.Cl. B32B 17/10 (2006.01) B64C 1/14 (2006.01) H05K 9/00 (2006.01)**
[25] FR
[54] **SUPPRESSION OF ELECTROSTATIC DISCHARGE NOISE BY MEANS OF CONDUCTION BETWEEN A TIERED METAL ELEMENT AND THE WIRING SYSTEM OF A GLAZING UNIT**
[54] **SUPPRESSION DU BRUIT DE DECHARGE ELECTROSTATIQUE PAR CONDUCTION ENTRE UN ELEMENT METALLIQUE EN GRADIN ET LE RESEAU ELECTRIQUE D'UN VITRAGE**
[72] DEBRUS, MARIE-HELENE, FR
[72] TONDU, THOMAS, FR
[72] CANALES, HUGO, FR
[72] FLOURENS, FRANCK, FR
[72] UNFER, CATHERINE, FR
[72] DELVERDIER, OSMIN, FR
[73] SAINT-GOBAIN GLASS FRANCE, FR
[73] AIRBUS OPERATIONS SAS, FR
[85] 2020-01-03
[86] 2018-07-06 (PCT/FR2018/051696)
[87] (WO2019/008289)
[30] FR (1700719) 2017-07-06

[11] **3,069,477**
[13] C

[51] **Int.Cl. B05D 1/28 (2006.01) B05D 3/02 (2006.01) B05D 3/10 (2006.01) B05D 7/14 (2006.01) B05D 7/24 (2006.01)**
[25] EN
[54] **ROLL COATING-BASED PREPARATION METHODS FOR ADHESIVE BONDING OF ALUMINUM ALLOYS, AND PRODUCTS RELATING TO THE SAME**
[54] **PROCEDES DE PREPARATION A BASE DE REVETEMENT AU ROULEAU POUR LA LIAISON PAR ADHESION D'ALLIAGES D'ALUMINIUM, ET PRODUITS ASSOCIES AUXDITS PROCEDES**
[72] MARINELLI, JAMES M., US
[72] GENSON, KIRSTEN L., US
[72] MCALLISTER, JOHN R., US
[72] KELTZ, DAVID M., US
[72] FIORINA, CHRISTOPHER M., US
[72] KEENER, JOHN L., US
[72] SCOTT, RYAN N., US
[73] ARCONIC TECHNOLOGIES LLC, US
[85] 2020-01-08
[86] 2018-07-24 (PCT/US2018/043548)
[87] (WO2019/023273)
[30] US (62/537,343) 2017-07-26

[11] **3,070,798**
[13] C

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 9/08 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **CYSTEINE COMPOSITION AND INJECTION**
[54] **COMPOSITION DE CYSTEINE ET INJECTION**
[72] DANNER, PIERRE, IE
[72] SIMPSON, JILL, IE
[72] SUTTERER, ANGELA, IE
[72] POULIQUEN, GAUTHIER, IE
[72] CONSTANCIS, ALAIN, IE
[73] AVADEL LEGACY PHARMACEUTICALS, LLC, US
[86] (3070798)
[87] (3070798)
[22] 2020-02-03
[30] US (16/355,028) 2019-03-15

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[11] **3,071,548**
[13] C

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[25] EN
[54] **PERSONAL HYGIENE SYSTEM**
[54] **SYSTEME D'HYGIENE PERSONNELLE**
[72] VETTER, INGO, DE
[72] FARANDA, LEO, DE
[72] SCHIEBAHN, MATTHIAS, DE
[73] BRAUN GMBH, DE
[85] 2020-01-29
[86] 2018-09-13 (PCT/IB2018/057006)
[87] (WO2019/058223)
[30] EP (17192762.7) 2017-09-22

[11] **3,071,750**
[13] C

- [51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) C07K 16/24 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTIBODIES THAT BIND IL-4 AND/OR IL-13 AND THEIR USES**
[54] **ANTICORPS SE LIANT A L'IL-4 ET/OU A L'IL-3 ET LEURS UTILISATIONS**
[72] DAVISON, MATTHEW, US
[72] RAO, ERCOLE, DE
[72] LI, DANXI, FR
[72] MIKOL, VINCENT, FR
[72] KRUIP, JOCHEN, FR
[73] SANOFI, FR
[86] (3071750)
[87] (3071750)
[22] 2008-10-14
[62] 3,015,470
[30] EP (07291259.5) 2007-10-15
[30] US (61/037128) 2008-03-17

[11] **3,072,016**
[13] C

- [51] **Int.Cl. A61M 35/00 (2006.01)**
[25] EN
[54] **TRANSDERMAL DRUG DELIVERY SYSTEM**
[54] **SYSTEME D'ADMINISTRATION TRANSDERMIQUE DE MEDICAMENT**
[72] LAKHANI, SHAKIR, CA
[72] SARANI, KEEAN, CA
[73] AVRO LIFE SCIENCES, INC., CA
[85] 2020-02-04
[86] 2018-03-19 (PCT/US2018/023073)
[87] (WO2019/032147)
[30] US (62/543,580) 2017-08-10

[11] **3,072,374**
[13] C

- [51] **Int.Cl. B64C 39/00 (2006.01) B64C 27/08 (2006.01) B64C 29/00 (2006.01) B64C 39/02 (2006.01)**
[25] EN
[54] **AN UNMANNED AERIAL VEHICLE AND A SYSTEM FOR CONTROLLING AN UNMANNED AERIAL VEHICLE**
[54] **VEHICULE AERIEN SANS PILOTE ET SYSTEME DE COMMANDE D'UN VEHICULE AERIEN SANS PILOTE**
[72] ELERYAN, OMAR, CA
[72] CZARNOTA, SZYMON, CA
[73] CLEO ROBOTICS INC., CA
[85] 2020-02-07
[86] 2017-08-08 (PCT/CA2017/050940)
[87] (WO2018/027315)
[30] US (62/371,930) 2016-08-08
[30] US (62/396,539) 2016-09-19
[30] US (62/440,589) 2016-12-30

[11] **3,072,713**
[13] C

- [51] **Int.Cl. B63H 21/21 (2006.01) B63H 20/00 (2006.01) B63H 21/17 (2006.01)**
[25] EN
[54] **TROLLING MOTOR WITH LOCAL AND REMOTE CONTROL MODES**
[54] **PROPULSEUR ELECTRIQUE AVEC MODES DE COMMANDES LOCALES ET A DISTANCE**
[72] COMBS, NEAL, US
[73] NAVICO HOLDING AS, NO
[86] (3072713)
[87] (3072713)
[22] 2020-02-14
[30] US (16/283272) 2019-02-22

[11] **3,073,408**
[13] C

- [51] **Int.Cl. B62D 25/18 (2006.01)**
[25] EN
[54] **FENDER CAP BRACKET, MUD FLAP MOUNTING BRACKET, AND RELATED METHODS OF INSTALLATION AND USE**
[54] **SUPPORT DE COUVERCLE DE PARE-BOUE, SUPPORT DE MONTAGE DE BAVETTE DE PARE-BOUE ET METHODES CONNEXES D'INSTALLATION ET D'UTILISATION**
[72] EARL, ALISON, CA
[72] EARL, JAMES, CA
[72] EARL, DARWIN, CA
[72] EARL, RYAN, CA
[73] TRUCK HARDWARE LTD., CA
[86] (3073408)
[87] (3073408)
[22] 2020-02-21

[11] **3,074,392**
[13] C

- [51] **Int.Cl. F25B 9/00 (2006.01) F01K 25/10 (2006.01) F25B 11/02 (2006.01)**
[25] EN
[54] **A COMBINED HEAT RECOVERY AND CHILLING SYSTEM AND METHOD**
[54] **SYSTEME COMBINE DE RECUPERATION DE CHALEUR ET DE REFRIGERATION ET PROCEDE**
[72] SANTINI, MARCO, IT
[72] AMIDEI, SIMONE, IT
[73] NUOVO PIGNONE TECNOLOGIE SRL, IT
[85] 2020-02-24
[86] 2018-08-22 (PCT/EP2018/072695)
[87] (WO2019/042847)
[30] IT (102017000096779) 2017-08-29

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[11] **3,074,956**
[13] C

[51] **Int.Cl. A63B 53/04 (2015.01)**
[25] EN
[54] **GOLF CLUB HEADS WITH OPTIMIZED CHARACTERISTICS AND RELATED METHODS**
[54] **TETES DE BATON DE GOLF A CARACTERISTIQUES OPTIMISEES ET METHODES ASSOCIEES**
[72] SCHWEIGERT, BRADLEY D., US
[72] STOKKE, RYAN M., US
[73] KARSTEN MANUFACTURING CORPORATION, US
[86] (3074956)
[87] (3074956)
[22] 2014-03-14
[62] 2,994,141
[30] US (13/826,111) 2013-03-14
[30] US (13/804,917) 2013-03-14
[30] US (13/804,859) 2013-03-14

[11] **3,075,287**
[13] C

[51] **Int.Cl. G02B 21/24 (2006.01) H04N 5/341 (2011.01) G02B 7/28 (2021.01) G02B 21/36 (2006.01)**
[25] EN
[54] **REAL-TIME AUTOFOCUS FOCUSING ALGORITHM**
[54] **ALGORITHME DE MISE AU POINT AUTOMATIQUE EN TEMPS REEL**
[72] OLSON, ALLEN, US
[72] SALIGRAMA, KIRAN, US
[72] ZOU, YUNLU, US
[72] NAJMABADI, PEYMAN, US
[73] LEICA BIOSYSTEMS IMAGING, INC., US
[85] 2020-03-06
[86] 2018-09-28 (PCT/US2018/053629)
[87] (WO2019/068038)
[30] US (62/566,145) 2017-09-29

[11] **3,075,667**
[13] C

[51] **Int.Cl. F03D 7/02 (2006.01)**
[25] EN
[54] **WIND POWER GENERATING DEVICE OF TRANSPORTATION VEHICLE**
[54] **DISPOSITIF DE GENERATION D'ENERGIE EOLIENNE D'UN VEHICULE DE TRANSPORT**
[72] LEE, SHOU-HSUN, CN
[72] LI, CHUN-I, CN
[73] LEE, SHOU-HSUN, CN
[73] LI, CHUN-I, CN
[85] 2020-03-12
[86] 2018-04-11 (PCT/CN2018/000137)
[87] (WO2019/056653)
[30] CN (201710876077.9) 2017-09-25

[11] **3,076,282**
[13] C

[51] **Int.Cl. C07D 493/08 (2006.01)**
[25] EN
[54] **TRICYCLIC OXEPANE DERIVATIVE FROM LIMAX, METHODS OF ISOLATION, AND USES THEREOF**
[54] **DERIVE D'OXEPANE TRICYCLIQUE PROVENANT DE LIMACE, METHODES D'EXTRACTION ET UTILISATIONS**
[72] RUAN, JUN, CN
[73] GUANGXI JIUFU BIOTECHNOLOGY CO., LTD, CN
[85] 2020-03-18
[86] 2018-11-15 (PCT/CN2018/115649)
[87] (WO2019/057220)

[11] **3,076,812**
[13] C

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 8/02 (2006.01) C21D 9/00 (2006.01) C21D 9/46 (2006.01) C22C 38/20 (2006.01) C22C 38/28 (2006.01)**
[25] EN
[54] **HIGH MANGANESE STEEL FOR LOW TEMPERATURE, HAVING EXCELLENT SURFACE QUALITY, AND MANUFACTURING METHOD THEREFOR**
[54] **ACIER A HAUTE TENEUR EN MANGANESE POUR BASSE TEMPERATURE, AYANT UNE EXCELLENTE QUALITE DE SURFACE, ET SON PROCEDE DE FABRICATION**
[72] HA, YU-MI, KR
[72] JUNG, YOUNG-DEOK, KR
[72] KANG, SANG-DEOK, KR
[72] LEE, UN-HAE, KR
[72] KIM, YONG-JIN, KR
[72] KIM, SUNG-KYU, KR
[72] KIM, YOUNG-JU, KR
[73] POSCO, KR
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[86] 2018-10-11 (PCT/KR2018/011937)
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[30] KR (10-2018-0115926) 2018-09-28

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[25] EN
[54] **SYSTEMS AND METHODS FOR ENSURING DATA SECURITY IN THE TREATMENT OF DISEASES AND DISORDERS USING DIGITAL THERAPEUTICS**
[54] **SYSTEMES ET PROCEDES POUR ASSURER LA SECURITE DES DONNEES DANS LE TRAITEMENT DE MALADIES ET DE TROUBLES A L'AIDE D'AGENTS THERAPEUTIQUES NUMERIQUES**
[72] MCFARLAND, IAN, US
[72] MA, JASON F., US
[72] PALLONE, DAVINA, US
[72] BARBOSA, DANIEL, US
[72] TRINH, PHU, US
[73] PEAR THERAPEUTICS, INC., US
[85] 2020-03-24
[86] 2018-10-10 (PCT/US2018/055120)
[87] (WO2019/074996)
[30] US (62/570,975) 2017-10-11
[30] US (62/671,131) 2018-05-14

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[13] C

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[25] EN
[54] **LID BODY AND COOKER**
[54] **CORPS DE COUVERCLE ET CUISEUR**
[72] PENG, FENG, CN
[73] FOSHAN SHUNDE MIDEA ELECTRICAL HEATING APPLIANCES MANUFACTURING CO., LTD., CN
[85] 2020-03-27
[86] 2017-11-01 (PCT/CN2017/108984)
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[30] CN (201721276569.6) 2017-09-29
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[25] EN
[54] **A DUAL-LEVEL TWISTY PUZZLE**
[54] **CASSE-TETE A DEUX NIVEAUX**
[72] CAO, LI DONG, CA
[73] CAO, LI DONG, CA
[85] 2020-03-11
[86] 2017-11-04 (PCT/IB2017/056900)
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[11] **3,077,725**
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[25] EN
[54] **FROTH PUMP SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE POUR POMPE DE MOUSSE**
[72] HOUSE, PETER, CA
[72] DONAHUE, LUANA JORGENSON, CA
[72] LIAO, SHAWN, CA
[73] CANADIAN NATURAL UPGRADING LIMITED, CA
[86] (3077725)
[87] (3077725)
[22] 2020-04-01
[30] US (62/828,854) 2019-04-03

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[13] C

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[25] EN
[54] **A METHOD OF RECOVERING OLEFINS IN A SOLUTION POLYMERISATION PROCESS**
[54] **PROCEDE DE RECUPERATION D'OLEFINES DANS UN PROCEDE DE POLYMERISATION EN SOLUTION**
[72] AL-HAJ ALI, MOHAMMAD, FI
[72] ERIKSSON, ERIK, SE
[72] MATHIVANAN, GUHAN, AT
[72] RASANEN, JUKKA, FI
[72] SLEIJSTER, HENRY, NL
[72] VIJAY, SAMEER, AT
[72] ZITTING, SAMULI, FI
[73] BOREALIS AG, AT
[85] 2020-04-08
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[25] EN
[54] **ASSEMBLED LIGHT STEEL STRUCTURE ENERGY-SAVING COMPOSITE WALL**
[54] **MUR COMPOSITE D'ECONOMIE D'ENERGIE AVEC STRUCTURE DE METAL LEGEREMENT ASSEMBLE**
[72] JU, NAN, CN
[72] JU, MINGFA, CN
[73] JU, NAN, CN
[73] JU, MINGFA, CN
[85] 2020-04-22
[86] 2019-03-13 (PCT/CN2019/077916)
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[25] EN
[54] **KNIFE ASSEMBLIES AND CUTTING APPARATUSES COMPRISING THE SAME**
[54] **ENSEMBLES COUTEAUX ET APPAREILS DE COUPE COMPRENANT CEUX-CI**
[72] GREG, DUSTIN JOSEPH, US
[73] URSCHEL LABORATORIES, INC., US
[85] 2020-04-08
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[25] EN
[54] **VEHICLE LEVELING USING HANDHELD MOBILE DEVICE**
[54] **NIVELLEMENT DU VEHICULE UTILISANT UN DISPOSITIF MOBILE PORTATIF**
[72] MANFREDA, JOHN PETER, US
[72] COLLIN, MATTHEW A., US
[72] CUNNINGHAM, TOD, US
[73] LIPPERT COMPONENTS, INC., US
[86] (3080285)
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[22] 2020-05-05
[30] US (62/844,200) 2019-05-07

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[54] **DOOR CLOSER SYSTEM**
[54] **SYSTEME FERME-PORTE**
[72] DYE, WILLIAM P., US
[72] HECKMAN, IAN K., US
[72] LACY, YONG KWAN, US
[72] ALLEN, BRENDON, US
[72] EICKHOFF, BRIAN C., US
[72] KIELKOWSKI, RON M., US
[72] COLLINS, DALE M., US
[73] SCHLAGE LOCK COMPANY LLC, US
[86] (3080761)
[87] (3080761)
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[62] 2,873,273
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[11] **3,080,874**
[13] C

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[25] EN
[54] **SOAP DISPENSER FOR USE IN SHOWER ROOM IN HOTEL BATHROOM**
[54] **DISTRIBUTEUR DE SAVON A UTILISER DANS UNE SALLE DE DOUCHE D'UNE CHAMBRE D'HOTEL**
[72] LI, JINGJING, CN
[72] CHEN, MINGYANG, CN
[72] LUO, AIJUN, CN
[73] JIANGSU OPPEAL DAILY COSMETICS CORP., LTD, CN
[86] (3080874)
[87] (3080874)
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[13] C

[51] **Int.Cl. B23K 33/00 (2006.01) B21D 22/20 (2006.01) B21D 53/88 (2006.01)**
[25] EN
[54] **WELDED STEEL PART USED AS MOTOR VEHICLE PART, HOT PRESSED STEEL PART, AND METHOD OF MANUFACTURING SAID WELDED STEEL PART**
[54] **PIECE EN ACIER SOUDE UTILISEE COMME PIECE DE VEHICULE AUTOMOBILE, PIECE EN ACIER PRESSEE A CHAUD, ET PROCEDE DE FABRICATION DE LADITE PIECE EN ACIER SOUDE**
[72] HAOUAS, JESSY, FR
[73] ARCELORMITTAL, LU
[85] 2020-05-06
[86] 2018-12-04 (PCT/IB2018/059614)
[87] (WO2019/123069)
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[13] C

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[25] EN
[54] **TWO STAGE METHODS FOR PROCESSING ADHESIVES AND RELATED COMPOSITIONS**
[54] **PROCEDES EN DEUX ETAPES POUR LE TRAITEMENT D'ADHESIFS ET COMPOSITIONS ASSOCIEES**
[72] BARTHOLOMEW, ERIC L., US
[72] BOTTORF, WILLIAM L., US
[72] HEIMBACH, KYLE R., US
[72] MILLER, BRANDON S., US
[72] WATERMAN, MICHAEL T., US
[72] ZAJACZKOWSKI, MICHAEL, US
[72] LUO, QIANG, US
[72] FULL, ANDREW P., US
[72] KOHLER, CHRISTOPHER E., US
[73] AVERY DENNISON CORPORATION, US
[86] (3082141)
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[25] EN
[54] **MARKING HEAD HAVING A PRESSURE SENSOR**
[54] **TETE DE MARQUAGE A CAPTEUR DE PRESSION**
[72] RATTUNDE, ULRICH, DE
[73] RATTUNDE AG, DE
[85] 2020-05-27
[86] 2018-11-21 (PCT/EP2018/082084)
[87] (WO2019/105828)
[30] DE (10 2017 128 475.3) 2017-11-30

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[13] C

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[25] EN
[54] **INFORMATION INTERACTION PROCESSING METHOD, AND TERMINAL AND SYSTEM THEREFOR**
[54] **PROCEDE DE TRAITEMENT D'INTERACTION D'INFORMATIONS, ET TERMINAL ET SYSTEME ASSOCIES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3084732)
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[22] 2015-06-30
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[13] C

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[25] EN
[54] **SOFT TISSUE IMPLANT POCKET**
[54] **POCHE D'IMPLANT DE TISSUS MOUS**
[72] BRENNAN, PAUL, AU
[72] MOORE, TIMOTHY GRAEME, AU
[73] POLYNOVO BIOMATERIALS PTY LIMITED, AU
[85] 2020-06-18
[86] 2018-12-21 (PCT/AU2018/051385)
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[25] EN
[54] **CR-NI ALLOY AND SEAMLESS STEEL PIPE MADE OF CR-NI ALLOY**
[54] **ALLIAGE CR-NI ET TUBE EN ACIER SANS SOUDURE FORME D'UN ALLIAGE CR-NI**
[72] TOMIO, AKIKO, JP
[72] UYAYAMA, MASAKI, JP
[72] TOMIO, YUSAKU, JP
[73] NIPPON STEEL CORPORATION, JP
[85] 2020-06-19
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[13] C

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[25] EN
[54] **USE OF EXTERNAL AIR FOR CLOSED CYCLE INVENTORY CONTROL**
[54] **UTILISATION D'AIR EXTERNE POUR UNE COMMANDE D'INVENTAIRE A CYCLE FERME**
[72] APTE, RAJ, US
[72] LAROCHELLE, PHILIPPE, US
[73] MALTA INC., US
[85] 2020-06-25
[86] 2017-12-07 (PCT/US2017/065201)
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[13] C

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[25] EN
[54] **METHOD AND DEVICE FOR THE MANAGEMENT OF BODY FLUIDS LEAKING FROM A SURGICAL DRAIN TUBE INCISION**
[54] **PROCEDE ET DISPOSITIF POUR LA GESTION DE FLUIDES CORPORELS FUYANT D'UNE INCISION DE TUBE DE DRAINAGE CHIRURGICAL**
[72] ALDEN, DMITRI, US
[72] MULHAUSER, PAUL, US
[73] ALDEN ADVANCED TECHNOLOGIES, INC., US
[85] 2020-06-30
[86] 2019-02-11 (PCT/US2019/017491)
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[30] US (PCT/US2018/018928) 2018-02-21
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[25] EN
[54] **PERCUSSIVE MASSAGE DEVICE AND METHOD OF USE**
[54] **DISPOSITIF DE MASSAGE PAR PERCUSSION ET PROCEDE D'UTILISATION**
[72] WERSLAND, JASON, US
[72] NAZARIAN, BENJAMIN, US
[72] SOLANA, JAIME SANCHEZ, US
[72] QUINTUS-BOSZ, HARALD, US
[72] PARKER, ANTHONY, US
[72] MCCASLIN, CHRIS, US
[73] THERABODY, INC., US
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[13] C

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[54] **COATING AND PRIMER REVETEMENT ET APPRET**
[72] HARALDSSON, TOMMY, SE
[72] MIKAELSSON, HENRIK, SE
[72] CARLBORG, CARL FREDRIK, SE
[72] ROSTAMI, JOWAN, SE
[73] MERCENE COATINGS AB, SE
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[87] (WO2019/185302)
[30] SE (1850341-7) 2018-03-27
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[13] C

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[25] EN
[54] **SUBSTITUTED PYRIDINE DERIVATIVES AND COMPOSITIONS THEREOF USEFUL AS INHIBITORS OF HISTONE DEMETHYLASES**
[54] **DERIVES DE PYRIDINE SUBSTITUES ET LEURS COMPOSITIONS UTILES COMME INHIBITEURS D'HISTONE DEMETHYLASES**
[72] LABELLE, MARC, US
[72] BOESEN, THOMAS, DK
[72] MEHROTRA, MUKUND, CA
[72] KHAN, QASIM, CA
[72] ULLAH, FARMAN, CA
[73] EPITHERAPEUTICS APS, DK
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[54] **CANOLA VARIETY 18UU2728I**
[54] **VARIETE DE CANOLA 18UU2728I**
[72] ALAHAKOON, USHAN, US
[73] AGRIGENETICS, INC., US
[86] (3095398)
[87] (3095398)
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[30] US (16/941,781) 2020-07-29

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[13] C

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[25] EN
[54] **PRISMATIC LED MODULE FOR LUMINAIRE**
[54] **MODULE DEL PRISMATIQUE POUR LUMINAIRE**
[72] LUEKEN, THOMAS C., US
[72] NEUER, MICHAEL S., US
[72] CHEN, ZHIJIE, US
[72] BUTTERIS, JAMEY, US
[72] HILL, EZEKIAL T., US
[73] HUBBELL LIGHTING, INC., US
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[13] C

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[25] EN
[54] **CLIMATE CONTROL SYSTEM FOR INDOOR HORTICULTURE**
[54] **SYSTEME DE REGULATION CLIMATIQUE POUR HORTICULTURE EN INTERIEUR**
[72] BOWLING, KYLE, US
[72] KINDLE, JAY, US
[73] RAE CORPORATION, US
[85] 2020-10-26
[86] 2019-11-13 (PCT/US2019/061245)
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[13] C

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[54] **TEMPERATURE RESPONSIVE FRACTURING**
[54] **FRACTURATION SENSIBLE A LA TEMPERATURE**
[72] SHIELDS, AUSTIN J., US
[73] SHIELDS, AUSTIN J., US
[85] 2020-11-02
[86] 2019-05-06 (PCT/US2019/030883)
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[30] US (62/668,859) 2018-05-09
[30] US (16/261,685) 2019-01-30
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[11] **3,099,469**
[13] C

[51] **Int.Cl. B25H 1/02 (2006.01)**

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[54] **A CHANNEL PUCK FOR USE IN A RAILED TABLE**
[54] **RONDELLE DE CANAL A UTILISER DANS UNE TABLE SUR RAIL**
[72] LIVINGSTON, LARRY LEIGH, JR, US
[73] OMNI CUBED, INC., US
[86] (3099469)
[87] (3099469)
[22] 2020-11-17
[30] US (16/939,001) 2020-07-26
[30] US (16/986,268) 2020-08-06

[11] **3,100,029**
[13] C

[51] **Int.Cl. B01D 29/76 (2006.01)**

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[54] **METHOD AND SYSTEM FOR RECOVERING FLUID**
[54] **PROCEDE ET SYSTEME POUR RECUPERER LE LIQUIDE**
[72] HACK, ALEXANDER J., GB
[72] CUNNINGHAM, DANIEL G., GB
[73] PALL CORPORATION, US
[86] (3100029)
[87] (3100029)
[22] 2020-11-19
[30] US (16/728,286) 2019-12-27

[11] **3,101,853**
[13] C

[51] **Int.Cl. A61K 31/445 (2006.01) A61K 31/454 (2006.01) A61P 11/00 (2006.01)**

[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING IDIOPATHIC PULMONARY FIBROSIS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE FIBROSE PULMONAIRE IDIOPATHIQUE**
[72] WILLIAMS, MARK, CA
[73] ALGERNON PHARMACEUTICALS INC., CA
[85] 2020-11-27
[86] 2020-02-14 (PCT/CA2020/050199)
[87] (WO2020/163966)
[30] US (62/805,755) 2019-02-14
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[13] C

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[25] EN
[54] **SCENT DISPENSATION**
[54] **DISTRIBUTION DE PARFUM**
[72] JONES, BRIAN AARON, US
[72] LIMA, BRUNO MIRANDA, US
[72] STAPLER, RICHARD NATHANIAL, III, US
[73] PURA SCENTS, INC., US
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[22] 2016-11-02
[62] 3,003,873
[30] US (62/249,917) 2015-11-02
[30] US (62/278,913) 2016-01-14
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[30] US (62/279,747) 2016-01-16
[30] US (62/279,748) 2016-01-16
[30] US (62/279,745) 2016-01-16
[30] US (62/279,766) 2016-01-17
[30] US (62/279,767) 2016-01-17

[11] **3,102,738**

[13] C

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[25] EN
[54] **STEERING SYSTEM FOR AN AUTONOMOUS VEHICLE**
[54] **SYSTEME DE DIRECTION POUR VEHICULE AUTONOME**
[72] ST-GERMAIN, BENOIT, CA
[72] HOULE, MARTIN, CA
[72] LUSSIER, BENOIT, CA
[72] HOULE, SYLVIE, CA
[72] TESSIER, CLAUDE, CA
[72] LORTIE, DAVID, CA
[73] BOMBARDIER TRANSPORTATION GMBH, DE
[86] (3102738)
[87] (3102738)
[22] 2020-12-16
[30] US (62951414) 2019-12-20

[11] **3,105,500**

[13] C

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[25] EN
[54] **INFRARED TEMPERATURE MEASUREMENT AND STABILIZATION THEREOF**
[54] **MESURE DE TEMPERATURE INFRAROUGE ET PROCEDE DE STABILISATION ASSOCIE**
[72] MASTON, ROBERT, US
[73] CVG MANAGEMENT CORPORATION, US
[73] MASTON, ROBERT, US
[85] 2020-12-31
[86] 2019-05-24 (PCT/US2019/034035)
[87] (WO2019/227065)
[30] US (15/988,025) 2018-05-24

[11] **3,108,677**

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[25] EN
[54] **SPLIT BILLING FOR A USER ACROSS MULTIPLE BILLING SYSTEMS**
[54] **FACTURATION D'UTILISATEUR DIVISEE ENTRE PLUSIEURS SYSTEMES DE FACTURATION**
[72] SHAH, MEHUL, US
[73] T-MOBILE USA, INC., US
[85] 2021-02-03
[86] 2019-08-08 (PCT/US2019/045800)
[87] (WO2020/033762)
[30] US (16/058,956) 2018-08-08

[11] **3,109,219**

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[25] EN
[54] **SHAPED CHARGE ASSEMBLY, EXPLOSIVE UNITS, AND METHODS FOR SELECTIVELY EXPANDING WALL OF A TUBULAR**
[54] **ENSEMBLE CHARGE FACONNEE, UNITES EXPLOSIVES ET PROCEDES DE DILATATION SELECTIVE D'UNE PAROI D'UN ELEMENT TUBULAIRE**
[72] RAIRIGH, JAMES G., US
[73] RAIRIGH, JAMES G., US
[85] 2021-02-09
[86] 2019-08-16 (PCT/US2019/046920)
[87] (WO2020/037267)
[30] US (62/764,858) 2018-08-16

[11] **3,111,151**

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[25] EN
[54] **MULTILAYER SELF-ADHESIVE FOULING RELEASE FILM WITH TEXTURED SURFACE**
[54] **FILM MULTICOUCHE ANTISALISSURE AUTOADHESIF A SURFACE TEXTUREE**
[72] PEROTTI, DANIELE, BE
[72] BOUVET, MARTINE, BE
[72] LUGTHART, ARJAN, NL
[72] COURTIN, JACQUES M.L., NL
[72] VAN DER KOLK, KEES, NL
[73] AVERY DENNISON CORPORATION, US
[85] 2021-02-26
[86] 2019-08-28 (PCT/EP2019/073011)
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[11] **3,113,246**
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[25] EN
[54] **SYSTEMS AND METHODS FOR RENDERING WEBLINKS INSIDE A REMOTE APPLICATION USING AN EMBEDDED BROWSER**

[54] **SYSTEMES ET PROCEDES DE RENDU DE LIENS WEB A L'INTERIEUR D'UNE APPLICATION DISTANTE A L'AIDE D'UN NAVIGATEUR INCORPORE**

[72] BORKAR, VIPIN, US
[72] SAMPATH, SANTOSH, US
[72] SHARMA, DEEPAK, US
[72] SANKARASUBRAMANIAN, ARVIND, US
[73] CITRIX SYSTEMS, INC., US
[85] 2021-03-17
[86] 2019-09-19 (PCT/US2019/051884)
[87] (WO2020/061282)
[30] US (16/138,598) 2018-09-21

[11] **3,113,404**
[13] C

[51] **Int.Cl. G01S 7/481 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPTIMIZING SCANNING OF COHERENT LIDAR**

[54] **PROCEDE ET SYSTEME D'OPTIMISATION DE BALAYAGE DE LIDAR COHERENT**

[72] CROUCH, STEPHEN C., US
[72] ANGUS, EDWARD, US
[72] MILVICH, MICHELLE, US
[73] BLACKMORE SENSORS & ANALYTICS, LLC, US
[85] 2021-03-11
[86] 2019-10-01 (PCT/US2019/054146)
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[25] EN
[54] **EFFICIENT CREATION OF COMPUTER-GENERATED FORCE (CGF) ENTITIES USING FREQUENCY RESPONSE MATRICES**

[54] **CREATION EFFICACE D'ENTITES DE FORCE PRODUITE PAR ORDINATEUR (CGF) AU MOYEN DE MATRICE DE REPOSE EN FREQUENCE**

[72] MYRAND-LAPIERRE, VINCENT, CA
[72] MOSZCZYNSKI, GREGORY, CA
[73] CAE INC, CA
[86] (3113480)
[87] (3113480)
[22] 2021-03-30

[11] **3,115,627**
[13] C

[51] **Int.Cl. G06Q 20/08 (2012.01) G06Q 20/38 (2012.01) G06Q 40/02 (2012.01)**

[25] EN
[54] **ONLINE TRANSACTION METHOD, DEVICE AND SYSTEM**

[54] **PROCEDE, DISPOSITIF ET SYSTEME DE TRANSACTION EN LIGNE**

[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3115627)
[87] (3115627)
[22] 2015-07-21
[62] 2,993,090

[11] **3,115,683**
[13] C

[51] **Int.Cl. C08F 255/02 (2006.01) C10M 149/10 (2006.01)**

[25] EN
[54] **AMINO ACID GRAFTED POLYMER WITH SOOT HANDLING PROPERTIES**

[54] **POLYMERE GREFFE D'ACIDE AMINE AYANT DES PROPRIETES DE TRAITEMENT DE SUIE**

[72] JIANG, SHENG, US
[72] CARRANZA, ARTURO, US
[73] AFTON CHEMICAL CORPORATION, US
[85] 2021-04-07
[86] 2019-10-09 (PCT/US2019/055297)
[87] (WO2020/081309)
[30] US (16/160,148) 2018-10-15

[11] **3,117,601**
[13] C

[51] **Int.Cl. A61K 31/53 (2006.01) C07D 233/40 (2006.01) C07D 251/02 (2006.01)**

[25] EN
[54] **FUNCTIONALIZED MATERIALS AND COMPOUNDS**

[54] **MATERIAUX ET COMPOSES FONCTIONNALISES**

[72] GLOVER, THOMAS GRANT, US
[72] WEST, KEVIN N., US
[73] UNIVERSITY OF SOUTH ALABAMA, US
[85] 2021-04-22
[86] 2019-10-25 (PCT/US2019/058022)
[87] (WO2020/086938)
[30] US (62/751,082) 2018-10-26

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[13] C

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[25] EN
[54] **PHOTOBIO-MODULATION THERAPY TO TREAT A DEGENERATIVE CONDITION OF THE RETINA AND/OR THE OPTIC NERVE**
[54] **THERAPIE DE PHOTOBIO-MODULATION POUR TRAITER UNE AFFECTION DEGENERATIVE DE LA RETINE ET/OU DU NERF OPTIQUE**
[72] JOHNSON, DOUGLAS, US
[72] KANARSKY, MAX, US
[73] MULTI RADIANCE MEDICAL, US
[85] 2021-04-29
[86] 2019-10-30 (PCT/US2019/058754)
[87] (WO2020/092495)
[30] US (62/752,467) 2018-10-30

[11] **3,122,201**

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[25] EN
[54] **KOMBUCHA NATURAL HEALTH PRODUCTS**
[54] **PRODUITS DE SANTE NATURELS AU KOMBUCHA**
[72] KASURAK, ASHLEY, CA
[72] REMTULLA, HUSAYN, CA
[73] VIVA NATURALS, INC., CA
[86] (3122201)
[87] (3122201)
[22] 2021-06-14

[11] **3,122,398**

[13] C

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[25] EN
[54] **MULTIPLE TALKGROUP NAVIGATION MANAGEMENT**
[54] **GESTION DE NAVIGATION DE MULTIPLES GROUPES DE CONVERSATION**
[72] TAN, CHOON CHENG, MY
[72] CHEW, YEN HSIANG, MY
[72] DURAIMANICKAM, TEJEASH, MY
[72] GAN, GUO DONG, MY
[72] JAHABER ALI, MOHAMED ASHRAF ALL, MY
[72] PHUA, JIN HOE, MY
[72] SANTHANASAMY, DESMOND, MY
[72] SOO, SWEE YEE, MY
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2021-06-07
[86] 2019-12-09 (PCT/US2019/065272)
[87] (WO2020/139545)
[30] US (16/232,274) 2018-12-26

[11] **3,123,643**

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[25] EN
[54] **NANOREDISPERSIBLE MICROPARTICLES OF DRIED CELLULOSE NANOCRYSTALS AND METHOD OF PRODUCTION THEREOF**
[54] **MICROPARTICULES NANOREDISPERSIBLES DE NANOCRISTAUX DE CELLULOSE SECHES ET LEUR PROCEDE DE PRODUCTION**
[72] ANDREWS, MARK P., CA
[72] MORSE, TIMOTHY, CA
[72] KHABIBULLIN, AMIR, CA
[72] FAROOQUE, MUNTASER, CA
[72] RAK, MONIKA, CA
[73] ANOMERA INC., CA
[85] 2021-06-16
[86] 2020-02-11 (PCT/CA2020/050179)
[87] (WO2020/163948)
[30] US (62/806,425) 2019-02-15
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[11] **3,125,612**

[13] C

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[25] EN
[54] **METHOD FOR OPTIMAL PATH SELECTION FOR DATA TRAFFIC UNDERGOING HIGH PROCESSING OR QUEUING DELAY**
[54] **PROCEDE DE SELECTION DE CHEMIN OPTIMAL POUR TRAFIC DE DONNEES SUBISSANT UN RETARD IMPORTANT DE TRAITEMENT OU DE MISE EN FILE D'ATTENTE**
[72] DHANABALAN, PRAVEEN RAJA, US
[73] CITRIX SYSTEMS, INC., US
[85] 2021-07-02
[86] 2020-01-02 (PCT/US2020/012010)
[87] (WO2020/142577)
[30] US (16/238,865) 2019-01-03

[11] **3,131,273**

[13] C

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[25] EN
[54] **TELEMATICS DEVICE FOR COMMUNICATING AND COLLECTING AGRICULTURAL DATA**
[54] **DISPOSITIF TELEMATIQUE POUR COMMUNIQUER ET COLLECTER DES DONNEES AGRICOLES**
[72] YOUNG, KEITH ALAN, CA
[72] OSBORNE, RONALD W., JR., CA
[73] FARMERS EDGE INC., CA
[85] 2021-08-24
[86] 2020-04-02 (PCT/CA2020/050437)
[87] (WO2020/210896)
[30] US (62/835,971) 2019-04-18

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[11] **3,132,224**
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[25] EN

[54] **PROCESS FOR SYNTHESIS OF ACIDIC SALTS OF AMINES FROM A-AMINO ACIDS AND FORMULATION COMPRISING SUCH AMINE ACIDIC SALTS**

[54] **PROCEDE DE SYNTHESE DE SELS ACIDES D'AMINES PROVENANT D'ACIDES A-AMINES ET FORMULATION COMPRENANT DE SELS ACIDES D'AMINE**

[72] HOLDER, MICHAEL, CA

[73] SMITH ENNISKILLEN COMPANY LIMITED, CA

[86] (3132224)

[87] (3132224)

[22] 2021-09-28

[11] **3,133,382**
[13] C

[51] **Int.Cl. E01B 25/30 (2006.01) B61B 13/10 (2006.01) E01B 2/00 (2006.01)**

[25] EN

[54] **VACUUM TUBE RAILWAY SYSTEM**

[54] **SYSTEME DE CHEMIN DE FER A TUBE A VIDE**

[72] RADZISZEWSKI, PAWEL, PL

[72] MIELCZAREK, LUKASZ, PL

[72] SWIATEK, GRZEGORZ, PL

[72] PACZEK, PRZEMYSLAW, PL

[73] NEVOMO POLAND SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, PL

[85] 2021-09-13

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[87] (WO2020/183027)

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[11] **3,135,076**
[13] C

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[25] EN

[54] **METHOD TO STREAM CONTENTS IN A PEER-TO-PEER NETWORK**

[54] **PROCEDE DE DIFFUSION DE CONTENUS EN STREAMING DANS UN RESEAU PAIR A PAIR**

[72] YOUSEF, HIBA, FR

[72] AGENEAU, PAUL-LOUIS, FR

[72] DELMAS, AXEL, FR

[73] STREAMROOT, FR

[85] 2021-09-27

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[30] FR (FR1903195) 2019-03-27

[11] **3,135,188**
[13] C

[51] **Int.Cl. G01S 5/00 (2006.01)**

[25] EN

[54] **LOCATION TRACKING USING BEACONS**

[54] **SUIVI D'EMPLACEMENT A L'AIDE DE BALISES**

[72] TYLER, DANIEL PAUL, US

[72] SUBRAMANIAM, BALAKRISHNA, US

[73] UNITED PARCEL SERVICE OF AMERICA, INC., US

[86] (3135188)

[87] (3135188)

[22] 2017-07-20

[62] 3,030,040

[30] US (62/364,402) 2016-07-20

[11] **3,138,570**
[13] C

[51] **Int.Cl. A01G 24/35 (2018.01) A01G 15/00 (2006.01) A01G 25/06 (2006.01)**

[25] EN

[54] **METHOD TO IRRIGATE USING HYDROGELS IN THE SOIL TO DRAW WATER FROM THE ATMOSPHERE**

[54] **PROCEDE D'IRRIGATION A L'AIDE D'HYDROGELS DANS LE SOL POUR EXTRAIRE L'EAU A PARTIR DE L'ATMOSPHERE**

[72] RUSKIN, RODNEY, US

[73] A.I. INNOVATIONS N.V., US

[85] 2021-10-28

[86] 2020-05-13 (PCT/US2020/032740)

[87] (WO2020/232166)

[30] US (62/848,467) 2019-05-15

[11] **3,140,503**
[13] C

[51] **Int.Cl. A42B 3/10 (2006.01) A42C 2/00 (2006.01)**

[25] EN

[54] **HELMETS COMPRISING ADDITIVELY-MANUFACTURED COMPONENTS**

[54] **CASQUES COMPRENANT DES COMPOSANTS FABRIQUES DE MANIERE ADDITIVE**

[72] LAPERRIERE, JEAN-FRANCOIS, CA

[72] KRICK, THIERRY, CA

[72] DUROCHER, JACQUES, CA

[73] BAUER HOCKEY LTD., CA

[85] 2021-11-15

[86] 2020-05-21 (PCT/CA2020/050683)

[87] (WO2020/232550)

[30] US (62/851,080) 2019-05-21

[30] US (62/969,307) 2020-02-03

[11] **3,141,670**
[13] C

[51] **Int.Cl. H05B 7/144 (2006.01) H02M 1/12 (2006.01) H02M 5/12 (2006.01) H02M 5/257 (2006.01) H05B 7/06 (2006.01)**

[25] EN

[54] **ARC FURNACE POWER SUPPLY WITH RESONANT CIRCUIT**

[54] **ALIMENTATION ELECTRIQUE DE FOUR A ARC AVEC CIRCUIT RESONNANT**

[72] STEIMER, PETER KARL, CH

[73] ABB SCHWEIZ AG, CH

[85] 2021-11-23

[86] 2020-05-08 (PCT/EP2020/062915)

[87] (WO2020/259907)

[30] EP (19182898.7) 2019-06-27

[11] **3,141,957**
[13] C

[51] **Int.Cl. H02H 5/10 (2006.01) H02H 3/16 (2006.01)**

[25] EN

[54] **OPEN PEN DETECTION AND SHUT DOWN SYSTEM**

[54] **SYSTEME D'ARRET ET DE DETECTION DE PEN OUVERT**

[72] HUNT, MATTHEW, GB

[73] GREENTEC INTERNATIONAL LIMITED, GB

[85] 2021-09-24

[86] 2020-02-27 (PCT/GB2020/050474)

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[30] GB (1904068.2) 2019-03-25

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[13] C

[51] **Int.Cl. E04B 1/84 (2006.01) E04C 2/04
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[25] EN

[54] **TAPERED KERF CONSTRUCTION**

[54] **CONSTRUCTION EN ENTAILLE
EFFILEE**

[72] SPIHLMAN, MICHAEL P., US

[72] GULBRANDSEN, PEDER J., US

[72] HULKA, SAMUEL D., US

[73] USG INTERIORS, LLC, US

[85] 2022-02-18

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[87] (WO2021/050246)

[30] US (16/566,909) 2019-09-11

[11] **3,148,932**

[13] C

[51] **Int.Cl. A61B 17/16 (2006.01) A61B
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[25] EN

[54] **TOOL HOLDER FOR MODULAR
TOOL**

[54] **PORTE-OUTIL POUR OUTIL
MODULAIRE**

[72] BIBARD, LEOPOLD, FR

[72] SOQUENNE, EDGARD, FR

[72] RETAILLEAU, VINCENT, FR

[73] OSTIUM GROUP, FR

[85] 2022-01-27

[86] 2020-07-28 (PCT/EP2020/071304)

[87] (WO2021/018911)

[30] EP (19305993.8) 2019-07-31

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May 29, 2022 to June 4, 2022

Demandes canadiennes mises à la disponibilité du public

29 mai 2022 au 4 juin 2022

[21] **3,101,135**
[13] A1
[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 50/28 (2012.01)**
[25] EN
[54] **A SYSTEM FOR REQUESTING A SERVICE AND OBTAINING CUSTOMERS**
[54] **SYSTEME POUR DEMANDER UN SERVICE ET OBTENIR DES CLIENTS**
[72] MANZER, JAMES, CA
[72] KRAWCHUK, HARRIS, CA
[72] KASHUBA, DARCY, CA
[72] MCNAUGHTON, CRAIG, CA
[71] MANZER, JAMES, CA
[71] KRAWCHUK, HARRIS, CA
[71] KASHUBA, DARCY, CA
[71] MCNAUGHTON, CRAIG, CA
[22] 2020-11-30
[41] 2022-05-30

[21] **3,101,280**
[13] A1
[51] **Int.Cl. G16H 20/10 (2018.01)**
[25] EN
[54] **REQUEST FOR A PATENT NAME: SAMEH MOHAMED ADDRESS: 83 AUBURN SHORES MANOR, SE, CALGARY, ALBERTA. CANADA. T3M OY4 TITLE OF PATENT: A NOVEL PRICE ESTIMATOR AND AN ORDERING SYSTEM FOR COMPOUNDED MEDICATIONS**
[54] **DEMANDE DE BREVET NOM : AMEH MOHAMED, ADRESSE : 83, AUBURN SHORES MANOR SUD-EST, CALGARY (ALBERTA) CANADA T3M OY4 TITRE DU BREVET : NOUVEL ESTIMATEUR DE PRIX ET SYSTEME DE COMMANDE POUR MEDICAMENTS COMPOSES**
[72] MOHAMED, SAMEH, CA
[71] MOHAMED, SAMEH, CA
[22] 2020-12-01
[41] 2022-06-01

[21] **3,101,290**
[13] A1
[51] **Int.Cl. A47G 9/02 (2006.01)**
[25] EN
[54] **DUVET ASSEMBLY**
[54] **ASSEMBLAGE DE DUVET**
[72] ELAWNY, SHARIF S., CA
[71] ELAWNY, SHARIF S., CA
[22] 2020-12-01
[41] 2022-06-01

[21] **3,101,353**
[13] A1
[51] **Int.Cl. B63B 13/00 (2006.01) F16K 15/00 (2006.01) F16L 55/11 (2006.01)**
[25] EN
[54] **WATERCRAFT DRAIN PLUG DEVICE**
[54] **DISPOSITIF DE BOUCHON DE VIDANGE D'EMBARCATION**
[72] KOVALOU, WESLEY, CA
[71] KOVALOU, WESLEY, CA
[22] 2020-12-01
[41] 2022-06-01

[21] **3,101,395**
[13] A1
[51] **Int.Cl. G06Q 40/00 (2012.01) G06Q 40/02 (2012.01)**
[25] FR
[54] **BUDGET ECONOMIC SYSTEM (BES)**
[54] **SYSTEME ECONOMIQUE PAR BUDGET (SEB)**
[72] ROBERT-THOMAS, MATHIAS, CA
[71] ROBERT-THOMAS, MATHIAS, CA
[22] 2020-12-02
[41] 2022-06-02

[21] **3,101,419**
[13] A1
[51] **Int.Cl. A61N 1/00 (2006.01) A61B 18/00 (2006.01)**
[25] FR
[54] **ELECTROCHEMICAL SYSTEM FOR INCREASING OR DECREASING HUMAN BONE CALCIFICATION**
[54] **SYSTEME ELECTROCHIMIQUE POUR AUGMENTER OU DIMINUER LA CALCIFICATION DES OS HUMAINS**
[72] ROJAS, MIGUEL, CA
[71] ROJAS, MIGUEL, CA
[22] 2020-12-04
[41] 2022-06-04

[21] **3,101,430**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR BYPASSING DOWNHOLE EQUIPMENT AND BYPASS MECHANISMS THEREFOR**
[54] **SYSTEME ET METHODE POUR CONTOURNER UN MATERIEL DE FOND DE TROU ET MECANISMES DE DERIVATION CONNEXES**
[72] WATT, ALAN FRASER, CA
[71] SUNCOR ENERGY INC., CA
[22] 2020-12-02
[41] 2022-06-02

[21] **3,101,483**
[13] A1
[51] **Int.Cl. B60B 33/00 (2006.01) A61G 5/10 (2006.01)**
[25] EN
[54] **FLUTTER RESISTANT CASTER**
[54] **ROULETTE RESISTANTE AU BATTEMENT**
[72] MULHERN, JAMES, US
[71] PRIDE MOBILITY PRODUCTS CORPORATION, US
[22] 2020-12-03
[41] 2022-06-03

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[21] **3,101,524**
[13] A1

[51] **Int.Cl. B65H 43/08 (2006.01) B31B 50/81 (2017.01) B65H 26/00 (2006.01) B65H 39/00 (2006.01)**

[25] EN

[54] **INFRARED MEASUREMENT SYSTEM FOR TAPES**

[54] **SYSTEME DE MESURE PAR INFRAROUGE POUR RUBANS**

[72] ROBITAILLE, MARTIN, CA

[71] ROBITAILLE, MARTIN, CA

[22] 2020-12-03

[41] 2022-06-03

[21] **3,101,566**
[13] A1

[51] **Int.Cl. B60K 17/22 (2006.01) B60K 17/24 (2006.01) F16C 3/00 (2006.01) F16D 3/84 (2006.01) F16P 1/00 (2006.01)**

[25] EN

[54] **DRIVESHAFT CONTAINMENT APPARATUS**

[54] **APPAREIL DE CONFINEMENT D'ARBRE D'ENTRAINEMENT**

[72] DUBE, GILLES MARC, CA

[71] DUBE, GILLES MARC, CA

[22] 2020-12-03

[41] 2022-06-01

[30] US (17/108,387) 2020-12-01

[21] **3,101,567**
[13] A1

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/30 (2006.01)**

[25] EN

[54] **PROCESSES AND COMPLETION ASSEMBLIES FOR OPEN-LOOP AND CLOSED-LOOP FLUID CIRCULATION IN HEAVY HYDROCARBON OPERATIONS**

[54] **PROCEDES ET ASSEMBLAGES DE REALISATION POUR LA CIRCULATION DE FLUIDE EN BOUCLE OUVERTE ET EN BOUCLE FERMEE DANS LES OPERATIONS D'HYDROCARBURES LOURDS**

[72] CLARKE, NATHAN, CA

[71] SUNCOR ENERGY INC., CA

[22] 2020-12-03

[41] 2022-06-03

[21] **3,101,618**
[13] A1

[51] **Int.Cl. E04B 1/38 (2006.01) E04B 1/343 (2006.01)**

[25] EN

[54] **SNAP JOINT AND METHOD OF USE**

[54] **JOINT ENCLIQUETABLE ET METHODE D'UTILISATION**

[72] PICARD, LAURENCE, CA

[72] BEGIN-DROLET, ANDRE, CA

[72] BLANCHET, PIERRE, CA

[71] UNIVERSITE LAVAL, CA

[22] 2020-12-03

[41] 2022-06-03

[21] **3,101,646**
[13] A1

[51] **Int.Cl. F04D 25/08 (2006.01) A01F 25/22 (2006.01) F04D 25/06 (2006.01) F04D 29/60 (2006.01)**

[25] EN

[54] **BOOSTER FAN**

[54] **VENTILATEUR AUXILIAIRE**

[72] MARQUES, AL, CA

[72] BRAUN, JAMES, CA

[71] S3 ENTERPRISES INC., CA

[22] 2020-12-04

[41] 2022-06-04

[21] **3,101,650**
[13] A1

[51] **Int.Cl. A63B 67/00 (2006.01) A63B 67/06 (2006.01) A63H 33/00 (2006.01)**

[25] EN

[54] **PORTABLE TOSSING GAME APPARATUS AND METHOD OF PLAYING**

[54] **APPAREIL DE JEU DE POCHE PORTATIF ET INSTRUCTIONS DE JEU**

[72] WILSON, VIRGIL WAYNE H., JR., CA

[71] WILSON, VIRGIL WAYNE H., JR., CA

[22] 2020-12-04

[41] 2022-06-04

[21] **3,101,668**
[13] A1

[51] **Int.Cl. C09K 8/592 (2006.01) E21B 43/22 (2006.01) E21B 43/24 (2006.01)**

[25] EN

[54] **LIQUID COMPOSITION AND USE IN A START-UP STAGE OF AN IN SITU BITUMEN RECOVERY PROCESS**

[54] **COMPOSITION LIQUIDE ET UTILISATION DANS UNE ETAPE DE DEMARRAGE D'UN PROCEDE DE RECUPERATION DE BITUME SUR PLACE**

[72] FADAEI, HOSSEIN, CA

[72] AGHABARATI, HOSSEIN, CA

[71] SUNCOR ENERGY INC., CA

[22] 2020-12-04

[41] 2022-06-04

[21] **3,101,699**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/14 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CONFIGURING RECURRING DATA TRANSFERS**

[54] **SYSTEMES ET PROCEDES POUR CONFIGURER LES TRANSFERTS DE DONNEES RECURRENTS**

[72] DUNJIC, MILOS, CA

[72] TAX, DAVID SAMUEL, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2020-12-04

[41] 2022-06-04

[21] **3,101,709**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 30/02 (2012.01) G06Q 30/06 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROMPTING A FOREIGN CURRENCY TRANSACTION**

[54] **SYSTEMES ET METHODES POUR AMORCER UNE TRANSACTION DE DEVISE ETRANGERE**

[72] TAX, DAVID SAMUEL, CA

[72] DUNJIC, MILOS, CA

[72] RASTOGI, KUSHANK, CA

[72] CAPERN, JOSEPH MATTHEW, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2020-12-04

[41] 2022-06-04

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[21] **3,101,712**
[13] A1

[51] **Int.Cl. E02D 17/08 (2006.01) E02D 29/05 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR EXCAVATING AND CONSTRUCTING A SHORING SUPPORT WALL AND WATER MANAGEMENT SYSTEM**
[54] **SYSTEME ET METHODE D'EXCAVATION ET DE CONSTRUCTION D'UN MUR DE SUPPORT D'ETAYAGE ET SYSTEME DE GESTION D'EAU**
[72] HALLIWELL, JOHN MARTIN, CA
[71] HC PROPERTIES INC., CA
[22] 2020-12-04
[41] 2022-06-04

[21] **3,101,716**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06N 3/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING JOB RECOMMENDATIONS FOR ONE OR MORE CANDIDATES**
[54] **SYSTEME ET METHODE POUR GENERER DES RECOMMANDATIONS D'EMPLOIS POUR UN OU PLUSIEURS CANDIDATS**
[72] DI SIPIO, RICCARDO, CA
[72] UMANSKY, LENA SHULAMIT, CA
[72] INDER, PAUL MICHAEL, CA
[72] WAHICHE, DAVID, CA
[72] SERGEANT, MATTHEW DAVID, CA
[72] JORJANI, DAVID, CA
[72] STEFANOVIC, NEMANJA, CA
[72] RICCI, SHAUN CHRISTOPHER, CA
[72] MONDAL, SOMEN, CA
[71] O5 SYSTEMS, INC., CA
[22] 2020-12-04
[41] 2022-06-04

[21] **3,101,765**
[13] A1

[51] **Int.Cl. A61K 36/07 (2006.01) A61K 31/4045 (2006.01) A61K 31/675 (2006.01) C07D 209/16 (2006.01) C07F 9/572 (2006.01)**
[25] EN
[54] **PSYCHOACTIVE ALKALOID EXTRACTION AND COMPOSITION WITH CONTROLLED DEPHOSPPHORYLATION**
[54] **EXTRACTION D'ALCALOIDE PSYCHOACTIF ET COMPOSITION AVEC DEPHOSPHORYLATION CONTROLEE**
[72] MOSS, RYAN, CA
[72] LIGHTBURN, BENJAMIN, CA
[72] RANKEN, LISA, CA
[71] PSILO SCIENTIFIC LTD., CA
[22] 2020-12-04
[41] 2022-06-04

[21] **3,103,594**
[13] A1

[51] **Int.Cl. G08G 1/095 (2006.01) G08B 5/36 (2006.01)**
[25] EN
[54] **CROSSWALK WARNING LIGHTING SYSTEM**
[54] **SYSTEME DE TEMOIN LUMINEUX DE PASSAGE POUR PIETONS**
[72] MILLER, GREGORY, CA
[72] MAGYAR, ROBERT, CA
[71] AVAILED TECHNOLOGIES CORP., CA
[22] 2020-12-01
[41] 2022-06-01

[21] **3,103,945**
[13] A1

[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REAL TIME SOCIAL ENGAGEMENT**
[54] **SYSTEME ET METHODE POUR LA GENERATION D'INTERET EN TEMPS REEL SUR LES MEDIAS SOCIAUX**
[72] WOODS, TRAN, US
[71] WOODS, TRAN, US
[22] 2020-12-23
[41] 2022-06-02
[30] US (17109735) 2020-12-02

[21] **3,103,969**
[13] A1

[51] **Int.Cl. E21B 47/10 (2012.01) E21B 47/06 (2012.01)**
[25] EN
[54] **ESTIMATE ACTIVE-ADJACENT BOREHOLE INTERFERENCE SEVERITY**
[54] **GRAVITE DE L'INTERFERENCE D'UN TROU DE FORAGE ADJACENTE A UNE ESTIMATION ACTIVE**
[72] RUHLE, WILLIAM OWEN ALEXANDER, US
[72] SHETTY, DINESH ANANDA, US
[72] SRIDHAR, SRIVIDHYA, US
[72] JAMALI, SHAHAB, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2020-12-23
[41] 2022-06-04
[30] US (17/112,600) 2020-12-04

[21] **3,108,936**
[13] A1

[51] **Int.Cl. G06Q 50/12 (2012.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **SCAN AND GO DRIVE THRU ORDERING**
[54] **COMMANDE AU VOLANT RAPIDE PAR BALAYAGE**
[72] RAMABAJA, GEZIM, CA
[71] RAMABAJA, GEZIM, CA
[22] 2021-02-14
[41] 2022-05-30

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[21] **3,114,145**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) H04W 4/30 (2018.01) G06Q 30/00 (2012.01)**
 [25] EN
 [54] **SYSTEM AND METHOD FOR GENERATING RECOMMENDATIONS DURING IMAGE CAPTURE OF A PRODUCT**
 [54] **SYSTEME ET METHODE POUR GENERER DES RECOMMANDATIONS PENDANT UNE CAPTURE D'IMAGE D'UN PRODUIT**
 [72] LUI, BENJAMIN, CA
 [72] NIHAS, GUDURU SAI, CA
 [72] BATLOUNI, SALIM, CA
 [71] SHOPIFY INC., CA
 [22] 2021-04-06
 [41] 2022-06-04
 [30] EP (21166115.2) 2021-03-30
 [30] US (17/111,712) 2020-12-04

[21] **3,114,226**
[13] A1

[51] **Int.Cl. B01D 46/52 (2006.01) B01D 46/42 (2006.01)**
 [25] EN
 [54] **LOCALIZED AIR FILTRATION SYSTEM**
 [54] **SYSTEME DE FILTRATION D'AIR LOCALISE**
 [72] GOTO, KAZUHIRO, CA
 [72] ALESIO, SALVATORE, CA
 [72] SOWKA, ROBERT, CA
 [71] AGS ZEPHYR INC., CA
 [22] 2021-04-07
 [41] 2022-06-04
 [30] CA (3,101,722) 2020-12-04
 [30] US (63/121,493) 2020-12-04

[21] **3,117,641**
[13] A1

[51] **Int.Cl. E21B 43/38 (2006.01) E21B 43/12 (2006.01) F04B 47/02 (2006.01) F04B 47/12 (2006.01)**
 [25] EN
 [54] **DOWNHOLE PUMP GAS ELIMINATING SEATING NIPPLE SYSTEM**
 [54] **SYSTEME DE MANCHON DE RACCORDEMENT ELIMINANT LES GAZ DE POMPE DE FOND DE TROU**
 [72] EVITT, RONALD, US
 [71] STONEVIEW SOLUTIONS LLC, US
 [22] 2021-05-10
 [41] 2022-06-03
 [30] US (17110552) 2020-12-03

[21] **3,119,499**
[13] A1

[51] **Int.Cl. A24F 40/485 (2020.01) A24F 40/40 (2020.01)**
 [25] EN
 [54] **ELECTRONIC CIGARETTE COMPRISING ONE-WAY VALVE**
 [54] **CIGARETTE ELECTRONIQUE COMPRENANT UNE SOUPEPE A SENS UNIQUE**
 [72] LIU, TUANFANG, CN
 [71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
 [22] 2021-05-25
 [41] 2022-06-04
 [30] CN (202011403614.6) 2020-12-04
 [30] CN (202022901912.X) 2020-12-04
 [30] CN (202022903548.0) 2020-12-04

[21] **3,123,443**
[13] A1

[51] **Int.Cl. A24F 1/30 (2006.01) A24F 40/465 (2020.01)**
 [25] EN
 [54] **HOOKAH**
 [54] **HOUKA**
 [72] LIU, TUANFANG, CN
 [71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
 [22] 2021-06-29
 [41] 2022-06-04
 [30] CN (202011407528.2) 2020-12-04
 [30] CN (202022882413.0) 2020-12-04

[21] **3,123,444**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01)**
 [25] EN
 [54] **ATOMIZER COMPRISING BOWL-SHAPED CERAMIC CORE**
 [54] **PULVERISATEUR COMPRENANT UN NOYAU CERAMIQUE EN FORME DE BOL**
 [72] LIU, TUANFANG, CN
 [71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
 [22] 2021-06-29
 [41] 2022-06-04
 [30] CN (202011419774.X) 2020-12-04
 [30] CN (202022909553.2) 2020-12-04

[21] **3,130,243**
[13] A1

[51] **Int.Cl. B23K 10/02 (2006.01)**
 [25] EN
 [54] **TORCH NOZZLE FOR PLASMA POWDER WELDING**
 [54] **BUSE DE CHALUMEAU POUR LE SOUDAGE A POUDDRE AU PLASMA**
 [72] MATSUBARA, MOTOYUKI, JP
 [72] NAKAMURA, SHIGEKI, JP
 [72] HASHIMOTO, KUNIHIDE, JP
 [71] KUBOTA CORPORATION, JP
 [22] 2021-09-09
 [41] 2022-06-04
 [30] JP (2020-201951) 2020-12-04

[21] **3,130,516**
[13] A1

[51] **Int.Cl. F24F 12/00 (2006.01) F24F 7/08 (2006.01) F24F 13/08 (2006.01) F24F 13/30 (2006.01) F28F 27/00 (2006.01)**
 [25] EN
 [54] **HEAT EXCHANGE DEVICE**
 [54] **DISPOSITIF D'ECHANGE DE CHALEUR**
 [72] ZHANG, JUN, CN
 [72] YANG, ZHENHONG, CN
 [72] GUAN, SHIYAN, CN
 [71] PANASONIC ECOLOGY SYSTEMS GUANGDONG CO., LTD., CN
 [22] 2021-09-13
 [41] 2022-05-30
 [30] CN (2020113753160) 2020-11-30

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[21] **3,133,297**
[13] A1

[51] **Int.Cl. A47J 31/30 (2006.01) A47J 31/44 (2006.01)**
[25] EN
[54] **STEAM PRODUCTION SYSTEM FOR PROFESSIONAL COFFEE MACHINES**
[54] **SYSTEME DE PRODUCTION DE VAPEUR POUR LES MACHINES A CAFE PROFESSIONNELLES**
[72] PARRINI, MAURO, IT
[72] CINGOLANI, CLAUDIO, IT
[71] SIMONELLI GROUP S.P.A., IT
[22] 2021-10-06
[41] 2022-06-02
[30] IT (102020000029465) 2020-12-02

[21] **3,134,172**
[13] A1

[51] **Int.Cl. G01S 7/56 (2006.01) G01S 15/86 (2020.01) B63C 11/48 (2006.01) G01S 7/539 (2006.01) G01S 15/96 (2006.01)**
[25] EN
[54] **IMPROVED SONAR DISPLAY FEATURES**
[54] **CARACTERISTIQUES AMELIOREES D'AFFICHAGE DE SONAR**
[72] NEUMANN, KARL THOMAS, US
[72] CLARK, JEREMIAH, US
[71] NAVICO HOLDING AS, NO
[22] 2021-10-13
[41] 2022-05-30
[30] US (17/106,272) 2020-11-30

[21] **3,135,355**
[13] A1

[51] **Int.Cl. G05B 6/02 (2006.01) G06F 3/14 (2006.01) G06F 17/00 (2019.01) G07F 17/32 (2006.01)**
[25] EN
[54] **CONTROL DEVICE AND METHOD TO CONTROL DIFFERENCE BETWEEN TARGET AND PERFORMANCE OUTPUTS USING FEEDBACK LOOP SYSTEM AND GRAPHICAL USER INTERFACE**
[54] **DISPOSITIF DE COMMANDE ET METHODE POUR CONTROLER UNE DIFFERENCE ENTRE DES SORTIES D'OBJECTIF ET DE RENDEMENT AU MOYEN D'UN SYSTEME DE BOUCLE DE RETROACTION ET D'UNE INTERFACE UTILISATEUR GRAPHIQUE**
[72] GORDON, DANIEL B., ZA
[72] HARPUR, RORY ANGUS, ZA
[71] FUSION HOLDINGS LIMITED, IM
[22] 2021-10-21
[41] 2022-05-30
[30] GB (2018826.4) 2020-11-30

[21] **3,135,527**
[13] A1

[51] **Int.Cl. C10M 171/06 (2006.01) A01C 7/08 (2006.01) B01J 2/30 (2006.01) C10M 107/00 (2006.01)**
[25] EN
[54] **SOLID DRY-TYPE LUBRICANT**
[54] **LUBRIFIANT DE TYPE SEC SOLIDE**
[72] THUO, MARTIN, US
[72] GREGORY, PAUL RAMON, US
[72] CHANG, BOYCE S., US
[72] DU, CHUANSHEN, US
[71] IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC., US
[22] 2021-10-22
[41] 2022-06-03
[30] US (17/110,939) 2020-12-03

[21] **3,136,322**
[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01) G06F 11/36 (2006.01) G06F 15/16 (2006.01)**
[25] EN
[54] **DEBUG TRACE STREAMS FOR CORE SYNCHRONIZATION**
[54] **FLUX DE SUIVI DE DEBOGAGE POUR LA SYNCHRONISATION DES COEURS**
[72] HALDEMAN, DAVID P., US
[72] MILLER, ERIC J., US
[71] THE BOEING COMPANY, US
[22] 2021-10-27
[41] 2022-06-02
[30] US (63/120,614) 2020-12-02

[21] **3,136,917**
[13] A1

[51] **Int.Cl. B60R 3/00 (2006.01) B60R 3/02 (2006.01)**
[25] EN
[54] **BATTERY ACCESS FLIP STEP**
[54] **MARCHE A CLAPET D'ACCES DE BATTERIE**
[72] FISHER, JORDAN MICHAEL, US
[72] POLZIN, JON DAVID, US
[72] STEGAWSKI, PIOTR, US
[72] OUTLAW, NICHOLAS COE, US
[71] PACCAR INC, US
[22] 2021-10-29
[41] 2022-05-30
[30] US (17/107,739) 2020-11-30

[21] **3,137,216**
[13] A1

[51] **Int.Cl. F16J 15/10 (2006.01) F16K 27/00 (2006.01) F16L 21/02 (2006.01)**
[25] EN
[54] **OVAL SEAL ASSEMBLY FOR PRESSURE CONTAINING BODIES**
[54] **ASSEMBLAGE DE JOINT OVALE POUR LES CORPS SOUS PRESSION**
[72] SHERBECK, TIMOTHY, US
[71] FORUM US, INC., US
[22] 2021-11-01
[41] 2022-06-04
[30] US (17/112,202) 2020-12-04

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[21] **3,137,499**
[13] A1

[51] **Int.Cl. A01K 5/00 (2006.01)**
[25] FR
[54] **PRODUCT DISTRIBUTION AGRICULTURE EQUIPMENT, SUCH AS A MIXER, COMPRISING A CONTAINER WITH AT LEAST ONE DISCHARGE OPENING**
[54] **EQUIPEMENT AGRICOLE DE DISTRIBUTION DE PRODUIT, TELLE QU'UNE MELANGEUSE, COMPRENANT UNE CUVE AVEC AU MOINS UNE OUVERTURE DE DECHARGEMENT**
[72] TOULOTTE, LOIC, FR
[72] PELE, NICOLAS, FR
[71] KUHN-AUDUREAU SAS, FR
[22] 2021-11-04
[41] 2022-05-30
[30] FR (2012407) 2020-11-30

[21] **3,137,513**
[13] A1

[51] **Int.Cl. G06K 19/00 (2006.01) G06K 7/01 (2006.01) H01R 33/00 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR PROVIDING CARD TRANSACTION FEEDBACK FOR HEARING OR VISUAL IMPAIRED**
[54] **DISPOSITIFS ET METHODES POUR FOURNIR UNE RETROACTION DE TRANSACTION DE CARTE POUR LES PERSONNES AYANT UNE DEFICIENCE AUDITIVE OU VISUELLE**
[72] MONTGOMERY, JAMES, US
[72] HARRINGTON, DAVID, US
[72] RIDER, JONATHAN, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2021-11-04
[41] 2022-06-03
[30] US (17/110,483) 2020-12-03

[21] **3,137,593**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/068 (2006.01) A61B 17/072 (2006.01) A61B 17/28 (2006.01) A61B 18/14 (2006.01)**
[25] EN
[54] **SURGICAL INSTRUMENT WITH ARTICULATION ASSEMBLY**
[54] **INSTRUMENT CHIRURGICAL COMPORTANT UN MECANISME D'ARTICULATION**
[72] BARIL, JACOB C., US
[72] CAPPOLA, KENNETH M., US
[71] COVIDIEN LP, US
[22] 2021-11-04
[41] 2022-06-04
[30] US (17/111,692) 2020-12-04

[21] **3,137,601**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) G05D 1/02 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DYNAMIC REPOSITIONING OF INVENTORY**
[54] **SYSTEMES ET METHODES DE RECOMPOSITION DYNAMIQUE DE L'INVENTAIRE**
[72] CACIOPPO, CHRISTOPHER, CA
[71] 6 RIVER SYSTEMS, LLC, US
[22] 2021-11-04
[41] 2022-06-04
[30] US (17/111,947) 2020-12-04

[21] **3,137,643**
[13] A1

[51] **Int.Cl. B64D 35/00 (2006.01) B64C 27/12 (2006.01)**
[25] FR
[54] **MOTORIZED INSTALLATION FOR A ROTARY-WING AIRCRAFT AND EQUIPPED WITH AN ENGINE BRAKE, A FREE WHEEL, AND A DISENGAGEABLE PARALLEL CONNECTION**
[54] **INSTALLATION MOTRICE POUR UN AERONEF A VOILURE TOURNANTE MUNIE D'UN FRIEN MOTEUR AINSI QUE D'UNE ROUE LIBRE ET D'UNE LIASON DEBRAYABLE EN PARALLELE**
[72] GARCIN, PATRICE, FR
[72] PRUD'HOMME-LACROIX, PIERRE, FR
[71] AIRBUS HELICOPTERS, FR
[22] 2021-11-05
[41] 2022-05-30
[30] FR (2012424) 2020-11-30

[21] **3,138,079**
[13] A1

[51] **Int.Cl. B64C 27/82 (2006.01) B64C 19/00 (2006.01) B64D 27/24 (2006.01)**
[25] EN
[54] **POWER MANAGEMENT SYSTEMS FOR ELECTRICALLY DISTRIBUTED YAW CONTROL SYSTEMS**
[54] **SYSTEMES DE GESTION D'ENERGIE POUR LES SYSTEMES DE COMMANDE DE DIRECTION DISTRIBUES ELECTRIQUEMENT**
[72] OUELLET, MARC, CA
[72] BIRON, GUILLAUME, CA
[72] DUGRE, ALEXIS, CA
[72] BUSTAMANTE, MARC, CA
[72] KUANG, CHEN, CA
[71] TEXTRON INNOVATIONS INC., US
[22] 2021-11-09
[41] 2022-06-01
[30] US (17/108,720) 2020-12-01

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[21] **3,138,438**
[13] A1

[51] **Int.Cl. B60R 25/00 (2013.01) B60R 25/102 (2013.01) B60R 25/20 (2013.01)**

[25] EN

[54] **VEHICLE ACCESS CONTROL SYSTEM**

[54] **SYSTEME DE CONTROLE D'ACCES AU VEHICULE**

[72] TRIPATHY, JANMEJAY, US

[72] MORRIS, IRWIN, US

[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US

[22] 2021-11-10

[41] 2022-06-03

[30] US (63/121,111) 2020-12-03

[30] US (17/522,121) 2021-11-09

[21] **3,138,466**
[13] A1

[51] **Int.Cl. B01D 19/00 (2006.01)**

[25] FR

[54] **DEVICE AND PROCESS FOR PUMPING LOW VACUUM EVAPORATION PRODUCTS**

[54] **DISPOSITIF ET PROCEDE DE POMPAGE DE PRODUITS A FAIBLE EVAPORATION SOUS VIDE**

[72] RIVARD, DANIEL, FR

[71] ORTEC EXPANSION, FR

[22] 2021-11-10

[41] 2022-05-30

[30] FR (2012381) 2020-11-30

[21] **3,138,471**
[13] A1

[51] **Int.Cl. B08B 9/087 (2006.01) B01L 9/00 (2006.01)**

[25] EN

[54] **LABEL PEELING DEVICE AND LABEL PEELING METHOD**

[54] **DISPOSITIF A DECOLLER LES ETIQUETTES ET METHODE DE DECOLLAGE D'ETIQUETTES**

[72] ITOH, TERUAKI, JP

[71] AOI SEIKI CO., LTD., JP

[22] 2021-11-10

[41] 2022-05-30

[30] JP (2020-198644) 2020-11-30

[21] **3,138,900**
[13] A1

[51] **Int.Cl. H04B 1/62 (2006.01) H04W 88/08 (2009.01)**

[25] EN

[54] **DUAL-BAND DIGITAL PRE-DISTORTION SYSTEM AND METHOD**

[54] **SYSTEME DE PREDISTORSION NUMERIQUE A DOUBLE BANDE ET METHODE**

[72] HE, TIAN, US

[72] YOUNG, CHAD, US

[72] KULARATNA, SHAVANTHA, US

[72] NOVAK, PETER, US

[72] LONGWELL, JACOB EDWARD, US

[71] NOKIA SOLUTIONS AND NETWORKS OY, FI

[22] 2021-11-12

[41] 2022-06-01

[30] FI (20206233) 2020-12-01

[21] **3,139,024**
[13] A1

[51] **Int.Cl. B65D 81/22 (2006.01) A24F 40/50 (2020.01) B65D 51/24 (2006.01) B65D 51/30 (2006.01)**

[25] EN

[54] **HUMIDITY CONTROL SYSTEM**

[54] **SYSTEME DE CONTROLE DE L'HUMIDITE**

[72] BLANKENHORN, BENJAMIN EDWARD, US

[72] FITZGERALD, VAUGHN E., US

[72] GLORIOSO, SAMMIE JOE, US

[71] DESICCARE, INC., US

[22] 2021-11-12

[41] 2022-06-01

[30] US (17/108997) 2020-12-01

[21] **3,139,176**
[13] A1

[51] **Int.Cl. F27D 1/04 (2006.01) B01J 19/02 (2006.01) B22D 41/02 (2006.01) F27B 14/08 (2006.01) F27D 1/10 (2006.01)**

[25] EN

[54] **REFRACTORY RING AND REFRACTORY RING SYSTEMS AND METHODS FOR ASSEMBLING THE SAME**

[54] **BAGUE REFRACTAIRE ET SYSTEMES ET METHODES DE BAGUE REFRACTAIRE AUX FINS D'ASSEMBLAGE**

[72] FRIEBEL, MICHAEL, US

[72] SHIVARAM, PAVAN, US

[71] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT

[22] 2021-11-15

[41] 2022-06-04

[30] US (63/121,582) 2020-12-04

[21] **3,139,179**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) G01S 7/36 (2006.01)**

[25] FR

[54] **PROCESS FOR SELECTING A CHANNEL IN A COMMUNICATION NETWORK WIRELESS ACCESS POINT DEVICE AND ASSOCIATED WIRELESS ACCESS POINT DEVICE**

[54] **PROCEDE DE SELECTION D'UN CANAL DANS UN DISPOSITIF POINT D'ACCESS SANS FIL D'UN RESEAU DE COMMUNICATION ET DISPOSITIF POINT D'ACCESS SANS FIL ASSOCIE**

[72] MAPAR, SAMIRA, FR

[72] CONTAL, SERGE, FR

[72] BEN HAMIDA, ELYES, FR

[71] SAGEMCOM BROADBAND SAS, FR

[22] 2021-11-16

[41] 2022-05-30

[30] FR (2012397) 2020-11-30

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[21] **3,139,240**
 [13] A1

[51] **Int.Cl. C10L 3/06 (2006.01)**
 [25] EN
 [54] **ZERO EMISSION FUEL**
 [54] **CARBURANT CARBONEUTRE**
 [72] DEL CAMPO, OSVALDO, US
 [71] GALILEO TECHNOLOGIES CORPORATION, US
 [22] 2021-11-16
 [41] 2022-06-02
 [30] US (63/120697) 2020-12-02

[21] **3,139,244**
 [13] A1

[51] **Int.Cl. H05B 45/345 (2020.01) H05B 45/10 (2020.01)**
 [25] EN
 [54] **DRIVING CIRCUIT FOR LED LAMP, LED LAMP CONTAINING SAME AND METHOD FOR OPERATING DRIVING CIRCUIT**
 [54] **CIRCUIT D'ATTAQUE POUR UNE LAMPE A DEL, LAMPE A DEL CONTENANT LE CIRCUIT ET METHODE D'EXPLOITATION DU CIRCUIT D'ATTAQUE**
 [72] YAO, PAN, CN
 [72] RONG, WEI, CN
 [72] GAO, JIE, CN
 [72] LI, BIN, CN
 [71] SAVANT TECHNOLOGIES LLC, US
 [22] 2021-11-16
 [41] 2022-06-04
 [30] CN (2020228814726) 2020-12-04

[21] **3,139,297**
 [13] A1

[51] **Int.Cl. B64C 19/00 (2006.01) B64C 27/82 (2006.01) B64D 27/24 (2006.01)**
 [25] EN
 [54] **RUDDERS FOR ROTORCRAFT YAW CONTROL SYSTEMS**
 [54] **GOUVERNES POUR SYSTEMES DE COMMANDE DE DIRECTION DE GIRAVION**
 [72] DUGRE, ALEXIS, CA
 [72] BIRON, GUILLAUME, CA
 [72] OUELLET, MARC, CA
 [71] TEXTRON INNOVATIONS INC., US
 [22] 2021-11-16
 [41] 2022-06-01
 [30] US (17/108,625) 2020-12-01

[21] **3,139,435**
 [13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/26 (2006.01)**
 [25] EN
 [54] **AUTOMATED HYDRAULIC FRACTURING OPERATION**
 [54] **OPERATION DE FRACTURATION HYDRAULIQUE AUTOMATISEE**
 [72] CAI, ZHIJUN, US
 [72] CONVERSE, PERRY D., US
 [72] ZHANG, YANCHAI, US
 [72] OLSEN, ERIK L., US
 [72] OTTEN, CASEY A., US
 [71] CATERPILLAR, INC., US
 [22] 2021-11-18
 [41] 2022-06-03
 [30] US (17/110415) 2020-12-03

[21] **3,139,461**
 [13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) A47G 29/087 (2006.01) B25H 1/00 (2006.01)**
 [25] EN
 [54] **PORTABLE WALL SUPPORTED TOOL HOLDER**
 [54] **SUPPORT MURAL PORTATIF A OUTILS**
 [72] CARVALHO, ARTUR, CA
 [71] CARVALHO, ARTUR, CA
 [22] 2021-11-18
 [41] 2022-06-02
 [30] US (17/109,395) 2020-12-02

[21] **3,139,580**
 [13] A1

[51] **Int.Cl. C10M 141/10 (2006.01) C10M 135/36 (2006.01) C10M 137/08 (2006.01)**
 [25] EN
 [54] **DURABLE LUBRICATING FLUIDS FOR ELECTRIC VEHICLES**
 [54] **FLUIDES DE LUBRIFICATION DURABLES POUR VEHICULES ELECTRIQUES**
 [72] ADHVARYU, ATANU, US
 [72] CLEVELAND, CHRISTOPHER, US
 [72] KWAK, YUNGWAN, US
 [71] AFTON CHEMICAL CORPORATION, US
 [22] 2021-11-17
 [41] 2022-06-01
 [30] US (17/108,596) 2020-12-01

[21] **3,139,642**
 [13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) B66C 13/04 (2006.01) B66C 13/18 (2006.01) B66C 13/48 (2006.01)**
 [25] EN
 [54] **AUTOMATIC INVENTORY OF A WAREHOUSE**
 [54] **INVENTAIRE AUTOMATIQUE D'UN ENTREPOT**
 [72] BLONDEL, CHARLES, FR
 [72] BODIN, YANNICK, FR
 [71] SCHNEIDER ELECTRIC INDUSTRIES SAS, FR
 [22] 2021-11-19
 [41] 2022-06-01
 [30] EP (20306469.6) 2020-12-01

[21] **3,139,673**
 [13] A1

[51] **Int.Cl. F28F 1/42 (2006.01) F16L 9/17 (2006.01) F24F 13/30 (2006.01) F25B 39/00 (2006.01) F28D 1/04 (2006.01)**
 [25] EN
 [54] **HEAT TRANSFER TUBE FOR AIR CONDITIONER APPLICATION**
 [54] **TUBE DE TRANSFERT THERMIQUE POUR UNE APPLICATION DE CLIMATISEUR**
 [72] LEFFLER, ROBERT A., US
 [72] WILSON, RON A., US
 [72] VISALLI, THOMAS, US
 [72] DOUGLAS, DUANE V., US
 [72] SULLIVAN, LOUIS J., US
 [72] AVILA, LUIS FELIPE, US
 [72] BRYANT, THOMAS, US
 [71] CARRIER CORPORATION, US
 [22] 2021-11-22
 [41] 2022-06-02
 [30] US (63/199,017) 2020-12-02

[21] **3,139,675**
 [13] A1

[51] **Int.Cl. A43B 5/14 (2006.01) A43B 5/00 (2022.01) A43B 7/06 (2006.01) A43B 7/34 (2006.01) A63B 22/06 (2006.01) A63B 69/16 (2006.01)**
 [25] EN
 [54] **BREATHABLE STATIONARY BICYCLE SHOE**
 [54] **CHAUSSURE DE VELO STATIONNAIRE RESPIRANTE**
 [72] SUTHERLAND, LISA L., US
 [71] SUTHERLAND, LISA L., US
 [22] 2021-11-22
 [41] 2022-06-04
 [30] US (17/112,901) 2020-12-04

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[21] **3,139,724**
[13] A1

[51] **Int.Cl. B63H 25/04 (2006.01) B63B 49/00 (2006.01) G05D 1/02 (2020.01)**

[25] EN

[54] **WATERCRAFT ALIGNMENT SYSTEMS, AND ASSOCIATED METHODS**

[54] **SYSTEMES D'ALIGNEMENT D'EMBARCATION ET METHODES CONNEXES**

[72] NEUMANN, KARL THOMAS, US
[72] SCHROEDER, JEREMY J., US
[71] NAVICO HOLDING AS, NO
[22] 2021-11-23
[41] 2022-05-30
[30] US (17/106288) 2020-11-30

[21] **3,139,736**
[13] A1

[51] **Int.Cl. G01S 7/04 (2006.01) G01S 13/937 (2020.01) B63B 49/00 (2006.01) B63H 25/04 (2006.01)**

[25] EN

[54] **IMPROVED RADAR DISPLAY FEATURES**

[54] **CARACTERISTIQUES AMELIOREES D'AFFICHAGE DE RADAR**

[72] NEUMANN, KARL THOMAS, US
[72] BATES, LAURENCE T., NZ
[71] NAVICO HOLDING AS, NO
[22] 2021-11-23
[41] 2022-05-30
[30] US (17/106280) 2020-11-30

[21] **3,139,749**
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 50/02 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS OF ALTERNATIVE ENERGY INTEGRATION WITH HYDROCARBON PRODUCTS**

[54] **SYSTEMES ET METHODES D'INTEGRATION D'ENERGIE DE RECHANGE AVEC DES PRODUITS D'HYDROCARBURES**

[72] WHIKEHART, DAVID, US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2021-11-23
[41] 2022-05-30
[30] US (63/199,001) 2020-11-30
[30] US (17/456,246) 2021-11-23

[21] **3,139,759**
[13] A1

[51] **Int.Cl. H04N 5/33 (2006.01) G03B 31/00 (2021.01) G08B 13/193 (2006.01) G08B 13/196 (2006.01)**

[25] EN

[54] **IMAGING DEVICE AND CAMERA HAVING NIGHT VISION MODE**

[54] **DISPOSITIF D'IMAGERIE ET CAMERA AYANT UN MODE DE VISION NOCTURNE**

[72] TANG, FANGRU, CN
[72] YANLIN, XU, CN
[72] XING, DONG, CN
[72] HONGBIN, XU, CN
[72] WANG, ZHIYONG, CN
[71] SAVANT TECHNOLOGIES LLC, US
[22] 2021-11-23
[41] 2022-06-04
[30] CN (2020228810087) 2020-12-04

[21] **3,139,762**
[13] A1

[51] **Int.Cl. H01H 15/02 (2006.01) H05B 45/40 (2020.01) H05B 47/10 (2020.01) H01H 3/02 (2006.01) H01H 23/02 (2006.01)**

[25] EN

[54] **MULTI-STEP SHORING SWITCH AND ILLUMINATION DEVICE**

[54] **COMMUTATEUR DE COUPE-CIRCUIT A PAS MULTIPLES ET DISPOSITIF D'ILLUMINATION**

[72] ZHOU, TIANCI (TIM), CN
[72] LIU, CHENGBIN, CN
[71] SAVANT TECHNOLOGIES LLC, US
[22] 2021-11-23
[41] 2022-06-04
[30] CN (202022876300X) 2020-12-04

[21] **3,139,966**
[13] A1

[51] **Int.Cl. G05F 1/565 (2006.01) A24F 40/50 (2020.01) H02M 3/335 (2006.01) H02M 7/217 (2006.01) H03K 17/687 (2006.01)**

[25] EN

[54] **ELECTRONIC CIGARETTE**

[54] **CIGARETTE ELECTRONIQUE**

[72] LIU, TUANFANG, CN
[71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
[22] 2021-11-23
[41] 2022-06-04
[30] CN (202011403589.1) 2020-12-04
[30] CN (202022876793.7) 2020-12-04
[30] CN (202110143096.7) 2021-02-02
[30] CN (202120293644.X) 2021-02-02

[21] **3,140,138**
[13] A1

[51] **Int.Cl. F16L 57/06 (2006.01) E21B 17/02 (2006.01) F16L 58/08 (2006.01) F16L 58/18 (2006.01) F16L 19/03 (2006.01)**

[25] EN

[54] **FLUID CONDUITS WITH SELECTIVELY COATED SURFACES**

[54] **CONDUITES DE FLUIDE A SURFACES SELECTIVEMENT REVETUES**

[72] RIEDEL, ROBERT E., JR, US
[72] MURRAY, CHRISTIAN JOSEPH, US
[72] GRETZ, NICKOLAS JAY, US
[71] CATERPILLAR, INC., US
[22] 2021-11-22
[41] 2022-06-04
[30] US (17/247256) 2020-12-04

[21] **3,140,141**
[13] A1

[51] **Int.Cl. G07F 7/00 (2006.01) G07F 19/00 (2006.01)**

[25] EN

[54] **OBSTRUCTION DETECTION OF A TRANSACTION DEVICE DISPLAY SCREEN**

[54] **DETECTION DES OBSTACLES DEVANT UN ECRAN DE DISPOSITIF DE TRANSACTION**

[72] WALDRON, MICHAEL, US
[72] WURMFELD, DAVID KELLY, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2021-11-23
[41] 2022-05-30
[30] US (17/247100) 2020-11-30

[21] **3,140,194**
[13] A1

[51] **Int.Cl. F01D 17/16 (2006.01) F01D 9/04 (2006.01) F02C 9/22 (2006.01)**

[25] EN

[54] **VARIABLE GUIDE VANE ASSEMBLY AND VANE ARMS THEREFOR**

[54] **ASSEMBLAGE D'AUBE DIRECTRICE VARIABLE ET BRAS D'AUBE CONNEXES**

[72] POICK, DANIEL, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-11-23
[41] 2022-06-01
[30] US (17/108,937) 2020-12-01

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[21] **3,140,259**
[13] A1

[51] **Int.Cl. G02C 5/22 (2006.01) G02C 5/14 (2006.01)**
[25] EN
[54] **IMPROVED HINGED SPECTACLE FRAME**
[54] **CHASSIS DE LUNETTES A CHARNIERES AMELIORE**
[72] LANARO, ALESSANDRO, LU
[71] M GROUP S.A R.L., LU
[22] 2021-11-23
[41] 2022-06-04
[30] IT (102020000030008) 2020-12-04

[21] **3,140,305**
[13] A1

[51] **Int.Cl. F17D 3/01 (2006.01) F16K 31/00 (2006.01) F16K 37/00 (2006.01) F17D 1/04 (2006.01) G01M 3/26 (2006.01)**
[25] EN
[54] **METHODS FOR SAFELY RESTORING GAS FLOW TO A BUILDING FROM A REMOTE LOCATION AND RELATED SMART METERS**
[54] **METHODS POUR ROUVRIRE SECURITAIREMENT UN ECOULEMENT DES GAZ A UN BATIMENT A PARTIR D'UN EMPLACEMENT ELOIGNE ET COMPTEURS INTELLIGENTS CONNEXES**
[72] INKROTT, BENJAMIN, US
[72] WYKLE, CHRISTOPHER, US
[72] HONCHAR, PAUL, US
[71] SENSUS SPECTRUM, LLC, US
[22] 2021-11-24
[41] 2022-06-02
[30] US (63/120371) 2020-12-02

[21] **3,140,328**
[13] A1

[51] **Int.Cl. F16L 55/00 (2006.01) E21B 43/26 (2006.01) F16L 55/10 (2006.01) F16L 55/11 (2006.01) F16L 55/115 (2006.01)**
[25] EN
[54] **A METHOD AND APPARATUS FOR INSTALLING AND REMOVING A PLUG RETAINER**
[54] **METHODE ET APPAREIL POUR INSTALLER ET RETIRER UN DISPOSITIF DE RETENUE DE BOUCHON**
[72] STRATULATE, GARY WARREN, US
[72] PENDLETON, GARY, GB
[71] GARTECH, LLC, US
[22] 2021-11-24
[41] 2022-06-01
[30] US (17/108,228) 2020-12-01

[21] **3,140,353**
[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01) G06Q 10/06 (2012.01) G06F 21/62 (2013.01) G06F 21/64 (2013.01)**
[25] EN
[54] **DISTRIBUTED LEDGER IN OIL AND GAS CUSTODY TRANSFERS**
[54] **REGISTRE DISTRIBUE DANS LES TRANSFERTS DE PETROLE ET DE GAZ**
[72] BHATTIPROLU, SUBHA LALITHA, IN
[72] LINSKOTT, RICHARD LINWOOD, US
[72] JOHNSON, ALEXANDER PARK, US
[71] SCHNEIDER ELECTRIC SYSTEMS USA, INC., US
[22] 2021-11-24
[41] 2022-05-30
[30] US (17/106,714) 2020-11-30

[21] **3,140,376**
[13] A1

[51] **Int.Cl. G01N 21/954 (2006.01) B64F 5/60 (2017.01) F01D 25/00 (2006.01) F02C 7/00 (2006.01)**
[25] EN
[54] **INSERTION TOOL**
[54] **OUTIL D'INSERTION**
[72] GRAHAM, ANDREW CRISPIN, GB
[72] DANKO, TODD WILLIAM, US
[71] GENERAL ELECTRIC COMPANY, US
[71] OLIVER CRISPIN ROBOTICS LIMITED, GB
[22] 2021-11-24
[41] 2022-06-04
[30] US (17/111,650) 2020-12-04

[21] **3,140,387**
[13] A1

[51] **Int.Cl. H04W 4/029 (2018.01) G06Q 20/34 (2012.01) G06Q 20/40 (2012.01) G06K 19/07 (2006.01)**
[25] EN
[54] **LOCATION-BASED CONTROL OF A FUNCTION**
[54] **CONTROLE D'UNE FONCTION AXE SUR L'EMPLACEMENT**
[72] ADCOCK, LEE, US
[72] KAVURI, VAMSI, US
[72] RANGWALA, JIGNESH, US
[72] GARNARA, MEHULKUMAR JAYANTILAL, US
[72] VEMBULI, MUTHUKUMARAN, US
[72] SHESHAIAHGARI, SRIKANTH REDDY, US
[72] SRIDHARAN, SANTHI, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2021-11-25
[41] 2022-06-04
[30] US (17/247233) 2020-12-04

[21] **3,140,456**
[13] A1

[51] **Int.Cl. F24B 1/192 (2006.01) F24B 1/195 (2006.01)**
[25] EN
[54] **STOWABLE FIRE PIT SCREEN**
[54] **ECRAN DE FOYER POUVANT ETRE RANGE**
[72] RESSLER, KYLE, US
[72] WOODRUFF, ROBERT, US
[72] HARMELING, ANDREW ALAN, US
[72] KNIGHT, DANIEL J., US
[71] LAMPLIGHT FARMS INCORPORATED, US
[22] 2021-11-29
[41] 2022-05-30
[30] US (17/107,248) 2020-11-30

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[21] **3,140,533**
[13] A1

[51] **Int.Cl. C25B 15/023 (2021.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING CONTAMINATION IN ELECTROLYSIS CELLS**
[54] **METHODES ET SYSTEMES POUR DETECTER LA CONTAMINATION DANS LES CELLULES D'ELECTROLYSE**

[72] BERRIAH, SAID, CA
[72] LADEMANN, HELMUT, DE
[72] TREMBLAY, GILLES J., CA
[71] RECHERCHE 2000 INC., CA
[22] 2021-11-26
[41] 2022-05-30
[30] US (63/119,097) 2020-11-30

[21] **3,140,538**
[13] A1

[51] **Int.Cl. G01J 1/18 (2006.01) G01K 11/322 (2021.01) G01B 11/16 (2006.01) G01K 15/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR DIGITIZATION OF AN OPTICAL SIGNAL AND FOR SPATIALLY RESOLVED MEASUREMENT OF TEMPERATURE AND STRAIN BY MEANS OF BRILLOUIN SCATTERING**
[54] **APPAREIL ET METHODE DE NUMERISATION D'UN SIGNAL OPTIQUE ET DE MESURE SPATIALE RESOLUE D'UNE TEMPERATURE ET DE CONTRAINTE AU MOYEN DE LA DIFFUSION DE BRILLOUIN**

[72] HILL, WIELAND, DE
[72] RATH, ALEXANDER, DE
[72] MARX, BENJAMIN, DE
[72] JOSTMEIER, THORBEN, DE
[71] NKT PHOTONICS GMBH, DE
[22] 2021-11-26
[41] 2022-06-03
[30] DE (10 2020 132 210.0) 2020-12-03

[21] **3,140,542**
[13] A1

[51] **Int.Cl. B29C 45/14 (2006.01) B29C 70/34 (2006.01) C08J 5/04 (2006.01) C08J 7/04 (2006.01) C08L 55/02 (2006.01) C08L 75/04 (2006.01) C08L 77/00 (2006.01) C09D 175/04 (2006.01)**
[25] EN
[54] **CLASS A, CARBON FIBER-REINFORCED THERMOPLASTIC COMPOSITES THROUGH IN-MOLD COATING**
[54] **COMPOSITES THERMOPLASTIQUES DE CLASSE A RENFORCES DE FIBRES DE CARBONE PAR UN PROCEDE DE REVETEMENT EN MOULE**

[72] BALTAZAR-Y-JIMENEZ, ALEXIS, CA
[72] ASTHANA, SIDDHARTHA, US
[72] KRULL, BRIAN A., US
[71] MAGNA EXTERIORS INC., CA
[22] 2021-11-26
[41] 2022-05-30
[30] US (63/119,155) 2020-11-30

[21] **3,140,543**
[13] A1

[51] **Int.Cl. F23R 5/00 (2006.01) F02C 3/14 (2006.01) F02C 7/06 (2006.01)**
[25] EN
[54] **GAS TURBINE ENGINE COMBUSTOR**
[54] **CHAMBRE DE COMBUSTION DE TURBINE A GAZ**

[72] MORENKO, OLEG, CA
[72] PARKMAN, KENNETH, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-11-25
[41] 2022-06-02
[30] US (17/109,830) 2020-12-02

[21] **3,140,558**
[13] A1

[51] **Int.Cl. H05B 47/00 (2020.01) H05B 45/10 (2020.01) H05B 45/20 (2020.01) H05B 45/40 (2020.01)**
[25] EN
[54] **FILAMENT DEVICE FOR ILLUMINATION DEVICE, ILLUMINATION DEVICE, AND DIMMING METHOD FOR ILLUMINATION DEVICE**
[54] **DISPOSITIF DE FILAMENT POUR UN DISPOSITIF D'ECLAIRAGE, DISPOSITIF D'ECLAIRAGE ET METHODE DE GRADATEUR POUR LE DISPOSITIF D'ECLAIRAGE**

[72] ZHU, YIMIN, CN
[72] YAO, PAN, CN
[72] GAO, JIE, CN
[72] MO, XIANGJIN, CN
[72] YANG, JIACHEN, CN
[72] XIAO, KUN, CN
[71] SAVANT TECHNOLOGIES LLC, US
[22] 2021-11-26
[41] 2022-05-30
[30] CN (202011374931X) 2020-11-30
[30] CN (2021221234796) 2021-09-03

[21] **3,140,564**
[13] A1

[51] **Int.Cl. G01N 15/10 (2006.01) G01N 15/14 (2006.01)**
[25] EN
[54] **MULTIPLEXED IMPEDANCE-BASED DETECTION METHODS AND SYSTEMS USING IMPEDANCE-ENCODED PARTICLES**
[54] **METHODS DE DETECTION FONDEES SUR L'IMPEDANCE MULTIPLEXEE ET SYSTEMES UTILISANT DES PARTICULES CODEES PAR L'IMPEDANCE**

[72] HARINK, MATTHIJS BJORN MARIJN, US
[72] BRAMALL, NATHAN EARL, US
[71] LEIDEN MEASUREMENT TECHNOLOGY LLC, US
[22] 2021-11-25
[41] 2022-05-30
[30] US (17/106,702) 2020-11-30

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[21] **3,140,620**
[13] A1

[51] **Int.Cl. B05B 1/18 (2006.01) B05B 15/60 (2018.01)**

[25] EN

[54] **PIVOTABLE DUAL SHOWERHEAD WITH MULTIPLE SPRAY MODES**

[54] **POMME DE DOUCHE DOUBLE PIVOTANTE COMPRENANT DE MULTIPLES MODES DE JET**

[72] GOSPEL, THOMAS EDWARD, US

[72] ROSKO, MICHAEL SCOT, US

[72] FU, BOCOMO, CN

[72] XING-CHUAN, LING, CN

[72] WU, ALEX, CN

[71] DELTA FAUCET COMPANY, US

[22] 2021-11-29

[41] 2022-05-30

[30] US (63/119,111) 2020-11-30

[21] **3,140,652**
[13] A1

[51] **Int.Cl. H01Q 1/00 (2006.01) G03B 37/00 (2021.01)**

[25] EN

[54] **CAMERA IN BRACKET AND METHOD TO MINIMIZE BLIND SPOTS TO THE TRANSMISSION OF ANTENNA SIGNALS**

[54] **CAMERA SUR SUPPORT ET METHODE POUR MINIMISER LES ANGLES MORTS A LA TRANSMISSION DES SIGNAUX D'ANTENNE**

[72] FRISCHMAN, MARK, CA

[72] CLIFFORD, BRUCE KENNETH, CA

[72] MAIN, MICHAEL ROBB, CA

[71] MULTIWAVE SENSORS INC., CA

[22] 2021-11-29

[41] 2022-05-30

[30] US (63/119,280) 2020-11-30

[21] **3,140,655**
[13] A1

[51] **Int.Cl. B25H 7/02 (2006.01) B25H 7/00 (2006.01)**

[25] EN

[54] **LAYOUT TOOL WITH GRIPS**

[54] **OUTIL DE TRACAGE COMPRENANT DES MECANISMES DE PREHENSION**

[72] SMITH, DARRIN E., CA

[71] JESSEM TOOL CORPORATION, CA

[22] 2021-11-26

[41] 2022-05-30

[30] US (17/106548) 2020-11-30

[21] **3,140,670**
[13] A1

[51] **Int.Cl. E04B 1/62 (2006.01) E04B 1/70 (2006.01)**

[25] EN

[54] **SELF-ADHERING DRAINAGE/VENTILATION BARRIER FOR BUILDINGS**

[54] **CLOISON D'ARRET DE VENTILATION/DRAINAGE AUTOADHESIVE POUR BATIMENTS**

[72] LOLLEY, KEITH, US

[71] ADVANCED BUILDING PRODUCTS, INC., US

[22] 2021-11-29

[41] 2022-06-02

[30] US (17/535,278) 2021-11-24

[30] US (63/120,328) 2020-12-02

[21] **3,140,677**
[13] A1

[51] **Int.Cl. F21S 45/40 (2018.01) F21V 29/70 (2015.01) F21V 29/74 (2015.01) F21S 45/10 (2018.01) F21S 45/47 (2018.01) B60Q 1/02 (2006.01)**

[25] EN

[54] **AUXILIARY LIGHT FOR MOUNTING TO A VEHICLE**

[54] **LUMIERE AUXILIAIRE A INSTALLER SUR UN VEHICULE**

[72] JOHNSON, CHRISTOPHER, US

[71] BESTOP BAJA, LLC, US

[22] 2021-11-30

[41] 2022-05-30

[30] US (17/107,642) 2020-11-30

[21] **3,140,686**
[13] A1

[51] **Int.Cl. A61B 5/38 (2021.01) A61B 5/316 (2021.01) A61B 5/369 (2021.01) A61B 5/12 (2006.01)**

[25] EN

[54] **SPECTRO-TEMPORAL MODULATION TEST UNIT**

[54] **UNITE DE MISE A L'ESSAI DE LA MODULATION SPECTRO-TEMPORELLE**

[72] LAUGESSEN, SOREN, DK

[72] KRISTENSEN, BUE BJERGE, DK

[72] BEHRENS, THOMAS, DK

[72] SANCHEZ-LOPEZ, RAUL, DK

[72] ERIKSHOLM, JOHANNES ZAAR, DK

[72] CROWE, NICHOLAS, DK

[72] HARTE, JAMES MICHAEL, DK

[72] SIMONSEN, LISBETH BIRKELUND, DK

[71] INTERACOUSTICS A/S, DK

[22] 2021-11-30

[41] 2022-05-30

[30] EP (20210602.7) 2020-11-30

[21] **3,140,692**
[13] A1

[51] **Int.Cl. G06F 21/57 (2013.01)**

[25] EN

[54] **CYBERSECURITY PREDICTIVE DETECTION USING COMPUTER INPUT DEVICE PATTERNS**

[54] **DETECTION PREDICTIVE DE CYBERSECURITE UTILISANT LES MODELES DE DISPOSITIFS D'ENTREE INFORMATIQUES**

[72] MILOT, BERTRAND, CA

[71] BRADLEY & ROLLINS, CA

[22] 2021-11-30

[41] 2022-05-30

[30] US (63119113) 2020-11-30

**Canadian Applications Open to Public Inspection
May 29, 2022 to June 4, 2022**

[21] **3,140,696**
[13] A1

[51] **Int.Cl. G06F 16/901 (2019.01) G06F 16/903 (2019.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM FOR PREDICTING COMMODITY CATEGORY**

[54] **METHODE, DISPOSITIF, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE POUR PREVOIR UNE CATEGORIE DE MARCHANDISE**

[72] WANG, GUOFENG, CN
[72] SUN, PENGFEI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-11-30
[41] 2022-05-30
[30] CN (202011379916.4) 2020-11-30

[21] **3,140,699**
[13] A1

[51] **Int.Cl. G06F 16/9035 (2019.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM FOR PERSONALIZED SEARCH**

[54] **METHODE, DISPOSITIF, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE POUR DES RECHERCHES PERSONNALISEES**

[72] SHEN, CHENHUI, CN
[72] SUN, PENGFEI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-11-30
[41] 2022-05-30
[30] CN (202011379927.2) 2020-11-30

[21] **3,140,709**
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) G05B 17/02 (2006.01)**

[25] EN

[54] **METHOD FOR DYNAMIC CLUSTERING OF ELECTRICAL INSTALLATIONS, IN PARTICULAR FOR RENDERING ANCILLARY SERVICES**

[54] **METHODE DE MISE EN GRAPPE DYNAMIQUE D'INSTALLATIONS ELECTRIQUES, EN PARTICULIER POUR RENDRE DES SERVICES AUXILIAIRES**

[72] BLAAK, ISABEL, DE
[72] BROMBACH, JOHANNES, DE
[71] WOBVEN PROPERTIES GMBH, DE
[22] 2021-11-29
[41] 2022-05-30
[30] EP (20210710.8) 2020-11-30

[21] **3,140,741**
[13] A1

[51] **Int.Cl. B60T 13/26 (2006.01) B60T 17/18 (2006.01) B61H 13/20 (2006.01)**

[25] EN

[54] **BRAKE CONTROL SYSTEM FOR A RAIL CAR**

[54] **SYSTEME DE COMMANDE DE FREIN POUR UN WAGON**

[72] SORNAMANI, KRISHNAKUMAR, IN
[71] FAIVELEY TRANSPORT RAIL TECHNOLOGIES INDIA PRIVATE LIMITED, IN
[22] 2021-11-30
[41] 2022-06-01
[30] IN (202041052369) 2020-12-01

[21] **3,140,747**
[13] A1

[51] **Int.Cl. B25B 23/08 (2006.01) B25B 23/12 (2006.01)**

[25] EN

[54] **FASTENER POSITION HOLDING TOOL**

[54] **OUTIL POUR FIXER LA POSITION D'ATTACHE**

[72] GREGORY, RICHARD O., II, US
[71] PRODUCT LAUNCH ADVISORS, LLC, US
[22] 2021-11-30
[41] 2022-05-30
[30] US (63/119,575) 2020-11-30

[21] **3,140,766**
[13] A1

[51] **Int.Cl. B65G 47/88 (2006.01) B07C 5/34 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR SEPARATING OTHER TRACK MATERIAL**

[54] **DISPOSITIF ET METHODE POUR SEPARER UN PETIT MATERIEL DE VOIE**

[72] COOTS, COTY T., US
[71] B & B METALS, INC., US
[22] 2021-11-30
[41] 2022-06-03
[30] US (63/120983) 2020-12-03

[21] **3,140,769**
[13] A1

[51] **Int.Cl. H04L 41/0631 (2022.01) G06F 11/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR POSITIONING FAULT ROOT CAUSE OF SERVICE SYSTEM**

[54] **METHODE ET SYSTEME DE LOCALISATION DE LA CAUSE PRINCIPALE D'UNE DEFAILLANCE DANS UN SYSTEME DE SERVICE**

[72] ZHAI, XUEPENG, CN
[72] BAO, YUXUE, CN
[72] GENG, ZHILIANG, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-11-30
[41] 2022-05-30
[30] CN (202011376566.6) 2020-11-30

[21] **3,140,772**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **ACCOUNT PROCESSING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**

[54] **METHODE ET DISPOSITIF DE TRAITEMENT DE COMPTE, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**

[72] SONG, DUNPING, CN
[72] YU, XIANFU, CN
[72] LI, XIAOHUI, CN
[72] CAI, MIN, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-11-30
[41] 2022-05-30
[30] CN (202011378935.5) 2020-11-30

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[21] **3,140,778**
[13] A1

[51] **Int.Cl. G02C 11/00 (2006.01) H04R 1/02 (2006.01)**
[25] EN
[54] **EYEWEAR WITH PARAMETRIC AUDIO UNIT**
[54] **LUNETTE COMPORTANT UNE UNITE SONORE PARAMETRIQUE**
[72] RUSCONI CLERICI BELTRAMI, ANDREA, AT
[72] BOTTONI, FERRUCCIO, AT
[71] USOUND GMBH, AT
[22] 2021-11-30
[41] 2022-06-04
[30] DE (10 2020 132 254.2) 2020-12-04

[21] **3,140,785**
[13] A1

[51] **Int.Cl. B60L 50/75 (2019.01)**
[25] FR
[54] **ELECTRICAL POWER SUPPLY SYSTEM AND PROCESS FOR OPERATING SUCH A SYSTEM**
[54] **SYSTEME D'ALIMENTATION ELECTRIQUES ET PROCEDE POUR PILOTER UN TEL SYSTEME D'ALIMENTATION ELECTRIQUE**
[72] ROUILLE, BRUNO, FR
[71] ALSTOM TRANSPORT TECHNOLOGIES, FR
[22] 2021-11-30
[41] 2022-05-30
[30] FR (FR 20 12384) 2020-11-30

[21] **3,140,806**
[13] A1

[51] **Int.Cl. B32B 7/14 (2006.01) B32B 7/02 (2019.01) B32B 27/08 (2006.01) B32B 27/12 (2006.01) B32B 37/12 (2006.01) B32B 38/06 (2006.01) E21D 11/38 (2006.01) E04B 1/62 (2006.01)**
[25] EN
[54] **A METHOD FOR WATERPROOFING OF TUNNEL STRUCTURES**
[54] **METHODE POUR IMPERMEABILISER DES STRUCTURES DE TUNNEL**
[72] PALLY, OTMAR, CH
[72] SIEGRIST, ISABEL, CH
[71] SIKA TECHNOLOGY AG, CH
[22] 2021-11-30
[41] 2022-06-02
[30] EP (20211375.9) 2020-12-02

[21] **3,140,817**
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01) A62B 35/00 (2006.01) A61F 5/37 (2006.01)**
[25] EN
[54] **APPARATUS FOR PREVENTING NECK INJURY, SPINAL CORD INJURY AND CONCUSSION**
[54] **APPAREIL POUR PREVENIR LES BLESSURES AU COU, LES BLESSURES A LA COLONNE VERTEBRALE ET LES COMMOTIONS**
[72] JACKSON, KEVIN J., US
[71] JACKSON, KEVIN J., US
[22] 2021-12-01
[41] 2022-06-03
[30] US (63/120,783) 2020-12-03

[21] **3,140,821**
[13] A1

[51] **Int.Cl. E04D 13/064 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR CONTROLLING THE OPERATION OF DETECTION AND MONITORING APPARATUS FOR THE CONDITION OF GUTTERING AND/OR ROOFS**
[54] **SYSTEME, METHODE ET APPAREIL POUR CONTROLER L'OPERATION D'UN APPAREIL DE DETECTION ET DE SURVEILLANCE DE LA CONDITION DE GOUTTIERES ET/OU DE TOITURES**
[72] DE ROZARIEUX, MARK, GB
[72] MOELLER-JENSEN, JAKOB, GB
[71] HD SHARMAN LTD, GB
[22] 2021-12-01
[41] 2022-06-01
[30] GB (GB2018927.0) 2020-12-01

[21] **3,140,829**
[13] A1

[51] **Int.Cl. G09F 3/02 (2006.01) A61B 7/00 (2006.01) A61B 18/00 (2006.01) G02B 5/12 (2006.01) G09F 3/08 (2006.01)**
[25] EN
[54] **PHOTOLUMINESCENT IDENTIFIER SYSTEM FOR FIREFIGHTING EQUIPMENT**
[54] **SYSTEME D'IDENTIFIANT PHOTOLUMINESCENT POUR UN EQUIPEMENT ANTIFEU**
[72] HYMAN, MATTHEW J., US
[71] F.D. SIGNWORKS, LLC, US
[22] 2021-12-01
[41] 2022-06-02
[30] US (17/109,608) 2020-12-02

[21] **3,140,844**
[13] A1

[51] **Int.Cl. B67D 7/42 (2010.01) B67D 7/48 (2010.01) B67D 7/52 (2010.01)**
[25] EN
[54] **HIGH PRESSURE FUEL NOZZLE LEAK STOP ASSEMBLY**
[54] **ASSEMBLAGE D'ARRET DE FUITE D'INJECTEUR DE CARBURANT HAUTE PRESSION**
[72] CARDER, RANDALL, US
[71] M. CARDER INDUSTRIES, INC., US
[22] 2021-12-01
[41] 2022-06-02
[30] US (63/120,485) 2020-12-02

[21] **3,140,849**
[13] A1

[51] **Int.Cl. A61H 39/08 (2006.01)**
[25] EN
[54] **DEVICE FOR DISPENSING ACUPUNCTURE NEEDLE**
[54] **DISPOSITIF DE DISTRIBUTION D'AIGUILLES D'ACUPUNCTURE**
[72] STAN, JOHN DUMITRU, CA
[71] EASTERN CURRENTS LTD., CA
[22] 2021-11-29
[41] 2022-05-30
[30] US (63/119,595) 2020-11-30

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[21] **3,140,852**
[13] A1

[51] **Int.Cl. A61J 1/03 (2006.01)**
[25] EN
[54] **ADD-ON MEDICINE CARRIERS FOR MOBILE DEVICES AND METHODS THEREOF**
[54] **CONTENANTS A MEDICAMENTS EN ACCESSOIRE POUR DISPOSITIFS MOBILES ET METHODES CONNEXES**
[72] REGAN, PAUL, CA
[71] REGAN, PAUL, CA
[22] 2021-12-01
[41] 2022-06-02
[30] US (63/120,339) 2020-12-02

[21] **3,140,854**
[13] A1

[51] **Int.Cl. G06F 16/22 (2019.01)**
[25] EN
[54] **DATA PROCESSING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE TRAITEMENT DE DONNEES, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] ZHANG, FEIHU, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-12-01
[41] 2022-06-01
[30] CN (202011387151.9) 2020-12-01

[21] **3,140,859**
[13] A1

[51] **Int.Cl. F23G 5/44 (2006.01) F23G 5/28 (2006.01) F23G 5/38 (2006.01) F23G 7/10 (2006.01)**
[25] FR
[54] **MULTIPLE-HEARTH FURNACE COMPRISING CURVED ARMS, APPLICATION TO BIOMASS TORREFACTION**
[54] **FOUR A SOLES MULTIPLES COMPRENANT DES BRAS INCURVES, APPLICATION A LA TORREFACTION DE BIOMASSE**
[72] CHATROUX, ANDRE, FR
[72] TRIPOLI, CARMELO, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[22] 2021-12-01
[41] 2022-06-02
[30] FR (FR2012515) 2020-12-02

[21] **3,140,879**
[13] A1

[51] **Int.Cl. A47B 81/00 (2006.01) B25H 3/00 (2006.01) E04G 5/00 (2006.01)**
[25] EN
[54] **A SCAFFOLD RACK**
[54] **RATELIER D'ECHAFAUDAGE**
[72] LEDFORD, CHRIS, US
[72] WAGNER, MARK, US
[71] BIL-JAX, INC., US
[22] 2021-12-01
[41] 2022-06-03
[30] US (63/120,761) 2020-12-03

[21] **3,140,880**
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01)**
[25] EN
[54] **FENCE PANEL HAVING TABS AND METHOD OF INSTALLATION THEREOF**
[54] **PANNEAU DE CLOTURE AYANT DES LANGUETTES ET METHODE D'INSTALLATION**
[72] KEFALLINOS, CONSTANTINOS, CA
[72] KEFALLINOS, NICOLAOS, CA
[71] KEFALLINOS, CONSTANTINOS, CA
[71] KEFALLINOS, NICOLAOS, CA
[22] 2021-12-01
[41] 2022-06-01
[30] US (63/119,752) 2020-12-01

[21] **3,140,883**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 7/02 (2019.01) B32B 27/28 (2006.01) B32B 27/32 (2006.01) B65D 65/40 (2006.01)**
[25] EN
[54] **STRETCH FILM INCORPORATING A SLIP SKIN LAYER**
[54] **FILM ELASTIQUE COMPRENANT UNE COUCHE DE PEAU GLISSANTE**
[72] PIRTLE, SHAUN, US
[72] ROUDEBUSH, TOM, US
[72] HILDRETH, MIKE, US
[72] EICHBAUER, GEORGE, US
[71] PARAGON FILMS, INC., US
[22] 2021-12-01
[41] 2022-06-02
[30] US (17/109,784) 2020-12-02

[21] **3,140,886**
[13] A1

[51] **Int.Cl. E01F 9/608 (2016.01) E01F 15/02 (2006.01) E01F 15/10 (2006.01)**
[25] EN
[54] **ROADWAY SAFETY DEVICE**
[54] **DISPOSITIF DE SECURITE DE ROUTE**
[72] KESLER, JAYSON, US
[72] KESLER, STACEY, US
[71] KESLER, JAYSON, US
[71] KESLER, STACEY, US
[22] 2021-12-01
[41] 2022-06-04
[30] US (63/121,648) 2020-12-04
[30] US (17/537,236) 2021-11-29

[21] **3,140,888**
[13] A1

[51] **Int.Cl. A47B 97/00 (2006.01) A47B 91/00 (2006.01) A47C 17/86 (2006.01) B62B 3/06 (2006.01)**
[25] EN
[54] **RETRACTABLE FURNITURE CARRIAGE**
[54] **CHARIOT DE MOBILIER RETRACTABLE**
[72] SARTOR, DAVE, US
[72] WEIS, ERIC, US
[71] FOLDCRAFT CO., US
[22] 2021-12-01
[41] 2022-06-03
[30] US (17/110949) 2020-12-03

[21] **3,140,895**
[13] A1

[51] **Int.Cl. E21B 17/00 (2006.01) E21B 17/10 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **WELLBORE FLOATATION ASSEMBLY AND METHOD**
[54] **ASSEMBLAGE DE FLOTTATION DE TROU DE FORAGE ET METHODE**
[72] KENNEDY, JEFFREY DOUGLAS MARTIN, CA
[72] TRENAMEN, FORREST HARRISON, CA
[71] KOBOLD CORPORATION, CA
[22] 2021-12-02
[41] 2022-06-03
[30] US (63/121,105) 2020-12-03

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[21] **3,140,897**
[13] A1

[51] **Int.Cl. B42D 25/305 (2014.01) B42D 25/40 (2014.01)**
[25] EN
[54] **SECURITY ELEMENT, ELECTRONIC CARD, ELECTRONIC PAYMENT TERMINAL, CORRESPONDING MANUFACTURING METHOD AND ASSEMBLY METHOD**
[54] **ELEMENT DE SECURITE, CARTE ELECTRONIQUE, TERMINAL DE PAIEMENT ELECTRONIQUE, METHODE DE FABRICATION CORRESPONDANTE ET METHODE D'ASSEMBLAGE**
[72] PAVAGEAU, STEPHANE, FR
[72] BONNET, ERIC, FR
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[22] 2021-12-02
[41] 2022-06-04
[30] FR (2012695) 2020-12-04

[21] **3,140,898**
[13] A1

[51] **Int.Cl. G06V 20/52 (2022.01) G06N 20/00 (2019.01) G06V 20/40 (2022.01) G06V 40/10 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD OF SOCIAL DISTANCING RECOGNITION IN CCTV SURVEILLANCE IMAGERY**
[54] **SYSTEME ET METHODE DE RECONNAISSANCE DE L'ELOIGNEMENT SOCIAL DANS LES IMAGES DE SURVEILLANCE DE TELEVISION EN CIRCUIT FERME**
[72] SUAREZ GARCIA, CESAR AUGUSTO, CA
[72] CAMERON, JAMES ALLAN DOUGLAS, CA
[72] MUNZ, PHILLIP KONRAD, CA
[71] PATRIOTONE TECHNOLOGIES, CA
[22] 2021-12-02
[41] 2022-06-02
[30] US (63/120,240) 2020-12-02

[21] **3,140,969**
[13] A1

[51] **Int.Cl. B60W 60/00 (2020.01)**
[25] EN
[54] **KINETIC INSIGHTS MACHINE**
[54] **MACHINE DE COMMANDES CINETIQUES**
[72] EMAD, ISAAC, US
[71] ALLSTATE INSURANCE COMPANY, US
[22] 2021-12-02
[41] 2022-06-02
[30] US (63/120,334) 2020-12-02

[21] **3,141,029**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 20/90 (2018.01) A61L 9/02 (2006.01) A61L 9/03 (2006.01) A61M 21/00 (2006.01)**
[25] EN
[54] **INTELLIGENT AROMATHERAPY SYSTEM**
[54] **SYSTEME D'AROMATHERAPIE INTELLIGENT**
[72] CHAIWALA, SONNY, CA
[71] CHAIWALA, SONNY, CA
[22] 2021-12-03
[41] 2022-06-04
[30] US (63/121,439) 2020-12-04

[21] **3,141,037**
[13] A1

[51] **Int.Cl. A47C 7/74 (2006.01) A47C 31/00 (2006.01) H05B 1/02 (2006.01) H05B 3/06 (2006.01) H05B 3/26 (2006.01)**
[25] EN
[54] **HEATING-CAPABLE FURNISHING UNIT**
[54] **PIECE DE MOBILIER POUVANT ACCUEILLIR UN ELEMENT CHAUFFANT**
[72] POMEROY, JOHN W., CA
[72] DAUB, SALLY JEAN, CA
[72] SHROPSHIRE, THEODORE CHARLES, CA
[71] 12407035 CANADA INC., CA
[22] 2021-12-02
[41] 2022-06-03
[30] US (63/120,906) 2020-12-03
[30] US (17/457,098) 2021-12-01

[21] **3,141,046**
[13] A1

[51] **Int.Cl. F41A 21/30 (2006.01)**
[25] EN
[54] **SILENCER FOR MOUNTING ON A GUN BARREL**
[54] **SILENCIEUX A INSTALLER SUR UN CANON DE FUSIL**
[72] ENGELBREIT, PHILIPP, DE
[71] EP ARMS GMBH, DE
[22] 2021-12-02
[41] 2022-06-02
[30] DE (DE 10 2020 132 017.5) 2020-12-02

[21] **3,141,071**
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 30/08 (2012.01) G06F 16/27 (2019.01)**
[25] EN
[54] **BLOCKCHAIN-BASED TRANSACTIVE ENERGY SYSTEMS**
[54] **SYSTEMES D'ENERGIE TRANSACTIONNELLE FONDES SUR LA CHAINE DE BLOCS**
[72] GOURISETTI, SRI NIKHIL GUPTA, US
[72] WIDERGREN, STEVEN E., US
[72] MYLREA, MICHAEL E., US
[72] CARDENAS, DAVID J. SEBASTIAN, US
[72] BORKUM, MARK I., US
[72] BHATTARAI, BISHNU P., US
[72] WANG, PENG, US
[72] RANDALL, ALYSHA M., US
[72] REEVE, HAYDEN M., US
[71] BATELLE MEMORIAL INSTITUTE, US
[22] 2021-12-02
[41] 2022-06-03
[30] US (17/537,231) 2021-11-29
[30] US (63/120,818) 2020-12-03

[21] **3,141,093**
[13] A1

[51] **Int.Cl. A63B 47/04 (2006.01)**
[25] EN
[54] **BALL-WASHING DEVICE**
[54] **DISPOSITIF DE NETTOYAGE DE BALLON**
[72] BOHLENDER, PETER W., CA
[71] BOHLENDER, PETER W., CA
[22] 2021-12-03
[41] 2022-06-04
[30] US (63/121549) 2020-12-04

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[21] **3,141,096**
[13] A1

[51] **Int.Cl. E21B 10/08 (2006.01) E21B 10/50 (2006.01)**
[25] EN
[54] **MANUFACTURE OF ROLLER CONE DRILL BITS**
[54] **FABRICATIONS DE TREPANS A MOLETTES**
[72] LYLES, DUSTIN, US
[72] MORRIS, TERRY VANCE, US
[72] CAI, YONGZHONG, CN
[72] YANG, DONGZE, CN
[72] YI, YUAN, CN
[71] TAUREX DRILL BITS, LLC, US
[71] KINGDREAM PUBLIC LIMITED COMPANY, CN
[22] 2021-12-03
[41] 2022-06-03
[30] US (63/120,792) 2020-12-03

[21] **3,141,105**
[13] A1

[51] **Int.Cl. B60P 7/06 (2006.01)**
[25] EN
[54] **CARGO BED RAIL**
[54] **RAIL DE LIT DE MARCHANDISES**
[72] GREEN, DAVID, CA
[72] SCHMIDER, JOHN PAUL, CA
[72] KOYA, ABDUL HALEEM AHAMED, CA
[72] HECK, CHRIS, CA
[72] PAINTER, MICHAEL JOSEPH, US
[72] MEVES, DONALD COLLINS, US
[72] DANIELS, CHRISTOPHER SCOTT, US
[71] CANADIAN TIRE CORPORATION LIMITED, CA
[22] 2021-12-06
[41] 2022-06-04
[30] US (63/121,692) 2020-12-04

[21] **3,141,112**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/90 (2019.01)**
[25] EN
[54] **HBASE TOTAL DATA IMPORTING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF D'IMPORTATION DE DONNEES TOTALES DE HBASE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] YOU, HAILANG, CN
[72] GUO, YEJUN, CN
[72] ZHANG, LIMING, CN
[72] CAO, HUAN, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-12-06
[41] 2022-06-04
[30] CN (202011416521.7) 2020-12-04

[21] **3,141,239**
[13] A1

[51] **Int.Cl. D01F 8/04 (2006.01) D04H 3/005 (2012.01) D01F 11/00 (2006.01) D04H 3/08 (2006.01)**
[25] EN
[54] **SPLITTABLE CHARGEABLE FIBER, SPLIT MULTICOMPONENT FIBER, A SPLIT MULTICOMPONENT FIBER WITH A DURABLE CHARGE, NONWOVEN FABRIC, FILTER, AND YARN CONTAINING, AND MANUFACTURING PROCESSES THEREFOR**
[54] **FIBRE POUVANT ETRE CHARGE ET CLIVEE, FIBRE MULTICOMPOSANTE CLIVEE, FIBRE MULTICOMPOSANTE CLIVEE A CHARGE DURABLE, TISSU NON TISSE, FILTRE, FIL CONTENANT LA FIBRE ET PROCEDES DE FABRICATION CONNEXES**
[72] DUGAN, JEFFREY SCOTT, US
[72] KEELER, SCOTT CHRISTOPHER, US
[72] MILLER, WILLIAM CAMERON, US
[72] SANDERS, ROBERT GILLION, US
[71] FIBER INNOVATION TECHNOLOGY, INC., US
[71] HDK INDUSTRIES INC., US
[22] 2021-12-02
[41] 2022-06-02
[30] US (63/120,720) 2020-12-02

[21] **3,145,135**
[13] A1

[51] **Int.Cl. G06Q 50/34 (2012.01)**
[25] EN
[54] **SOCIAL CROWDSOURCED PARLAY GAMING SYSTEM AND METHOD**
[54] **SYSTEME DE JEU A PARIS PARTICIPATIF SOCIAL ET METHODE**
[72] LEONE, THOMAS J., US
[72] SEIDEL, TANYA E., US
[71] LEONE, THOMAS J., US
[71] SEIDEL, TANYA E., US
[22] 2022-01-10
[41] 2022-06-03
[30] US (63/139,931) 2021-01-21
[30] US (17/483,303) 2021-09-23

[21] **3,146,447**
[13] A1

[51] **Int.Cl. G01B 11/14 (2006.01) G01S 17/08 (2006.01) G01S 17/36 (2006.01)**
[25] EN
[54] **LASER DISTANCE MEASUREMENT DEVICE**
[54] **DISPOSITIF DE MESURE DE LA DISTANCE AU LASER**
[72] PANOSIAN, MICHAEL H., US
[72] KEELER, JOSHUA M., US
[71] PANOSIAN, MICHAEL H., US
[71] KEELER, JOSHUA M., US
[22] 2022-01-21
[41] 2022-06-02
[30] US (17/156,522) 2021-01-23

[21] **3,152,702**
[13] A1

[51] **Int.Cl. B62M 6/40 (2010.01) B62K 11/00 (2013.01)**
[25] EN
[54] **ELECTRIC BICYCLE CONVERSION KITS**
[54] **TROUSSES DE CONVERSION DE VELO EN VELO ELECTRIQUE**
[72] NELSON, LIAM, CA
[71] BIKEFIN EBIKE INC., CA
[22] 2022-03-18
[41] 2022-06-01
[30] US (63/163,038) 2021-03-18

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[51] Int.Cl. C12Q 1/6886 (2018.01) G01N 33/574 (2006.01) G01N 33/72 (2006.01)	[51] Int.Cl. C07D 311/74 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07C 1/00 (2006.01) C07D 213/53 (2006.01) C07D 265/36 (2006.01) C07D 271/10 (2006.01) C07D 405/06 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 407/12 (2006.01) C07D 413/04 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01)	[51] Int.Cl. G01N 3/00 (2006.01) B02C 19/00 (2006.01) B02C 19/18 (2006.01)
[25] EN	[25] EN	[25] EN
[54] DETECTION METHOD	[54] SUBSTITUTED CYCLOALKYLS AS MODULATORS OF THE INTEGRATED STRESS PATHWAY	[54] TEST SYSTEM FOR HARD ROCK BREAKING BY MICROWAVE INTELLIGENT LOADING BASED ON TRUE TRIAXIAL STRESS
[54] METHODE DE DETECTION	[54] CYCLOALKYLES SUBSTITUES UTILISES EN TANT QUE MODULATEURS DE LA VOIE INTEGREE AU STRESS	[54] SYSTEME D'ESSAI POUR L'ABATTAGE DE ROCHES DURES PAR CHARGEMENT INTELLIGENT DE MICRO-ONDES EN FONCTION D'UNE CONTRAINTE REELLE TRIAXIALE
[72] BARNELL, ANDREW, US	[72] MARTIN, KATHLEEN, ANN, US	[72] FENG, XIATING, CN
[72] BARNELL, ERICA, US	[72] SIDRAUSKI, CAMELA, US	[72] ZHANG, JIUYU, CN
[72] KANG, YIMING, US	[72] SHI, LEI, US	[72] LIN, FENG, CN
[72] WURTZLER, ELIZABETH, US	[72] MURAUSKI, KATHLEEN, J., US	[72] LI, SHIPING, CN
[72] CAMPBELL, KATIE, US	[72] XU, XIANGDONG, US	[72] SU, XIANGXIN, CN
[71] GENEOSCOPY, INC., US	[72] TONG, YUNSONG, US	[72] TONG, TIANYANG, CN
[85] 2021-10-07	[72] RANDOLPH, JOHN, T., US	[71] NORTHEASTERN UNIVERSITY, CN
[86] 2019-05-31 (PCT/US2019/035061)	[72] DART, MICHAEL, J., US	[85] 2021-12-13
[87] (WO2019/232483)	[72] BENELKEBIR, HANAE, GB	[86] 2020-12-08 (PCT/CN2020/134553)
[30] US (62/679,621) 2018-06-01	[72] EDESON, STEVEN, GB	[87] (3142646)
[30] US (62/797,763) 2019-01-28	[72] STARBUCK, KATHRYN, GB	[30] CN (202011399172.2) 2020-12-04
	[71] CALICO LIFE SCIENCES LLC, US	
	[71] ABBVIE INC., US	
	[85] 2021-10-26	
	[86] 2020-04-30 (PCT/US2020/030819)	
	[87] (WO2020/223538)	
	[30] US (62/840,960) 2019-04-30	

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[21] **3,144,930**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **FRACTURING APPARATUS AND FRACTURING SYSTEM**
[54] **APPAREIL DE FRACTURATION ET SYSTEME DE FRACTURATION**
[72] ZHANG, PENG, CN
[72] LV, LIANG, CN
[72] ZHANG, RIKUI, CN
[72] MAO, ZHUQING, CN
[72] WANG, JIANWEI, CN
[72] LAN, CHUNQIANG, CN
[72] WU, YIPENG, CN
[72] LI, XINCHENG, CN
[71] YANTAI JEREH PETROLEUM EQUIPMENT & TECHNOLOGIES CO., LTD., CN
[85] 2022-01-05
[86] 2021-05-26 (PCT/CN2021/096099)
[87] (3144930)
[30] CN (202011396988.X) 2020-12-04
[30] CN (202110426496.9) 2021-04-20

[21] **3,149,311**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61P 31/04 (2006.01) C07D 487/02 (2006.01)**
[25] EN
[54] **ANTICANCER AGENTS**
[54] **AGENTS ANTICANCEREUX**
[72] SAFE, STEPHEN, US
[72] LI, XI, US
[72] KARKI, KESHAV, US
[71] THE TEXAS A&M UNIVERSITY SYSTEM, US
[85] 2022-01-28
[86] 2020-07-31 (PCT/US2020/044630)
[87] (WO2021/022220)
[30] US (62/880,801) 2019-07-31

[21] **3,151,381**
[13] A1

[51] **Int.Cl. H01F 7/00 (2006.01)**
[25] EN
[54] **METHODS FOR GENERATING DIRECTIONAL MAGNETIC FIELDS AND MAGNETIC APPARATUS THEREOF**
[54] **METHODES POUR GENERER DES CHAMPS MAGNETIQUES DIRECTIONNELS ET APPAREIL MAGNETIQUE CONNEXE**
[72] TREVORS, EVAN, CA
[72] SIMIN, NICHOLAS, CA
[72] JAVOR, JOSH, US
[72] RUIZ, CHRISTIAN, US
[71] LANTHA TECH LTD., CA
[85] 2022-03-01
[86] 2021-10-19 (PCT/CA2021/051465)
[87] (3151381)
[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

[21] **3,151,543**
[13] A1

[51] **Int.Cl. C02F 3/34 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR RAPID DEGRADATION AND AMELIORATION OF MARINE OIL SPILLS**
[54] **COMPOSITIONS ET METHODES POUR LA DETERIORATION RAPIDE ET L'AMELIORATION DES DEVERSEMENTS DE PETROLE MARINS**
[72] HOJGAARD, JACOB, CA
[72] HOUGAARD, THOMAS, CA
[72] LOWINGS, MALCOLM, CA
[72] LOWINGS, MICHAEL, CA
[72] NESB0, CAMILLA, CA
[72] STOUGAARD, PETER, CA
[71] 683107 ALBERTA LTD., CA
[85] 2022-03-08
[86] 2021-11-30 (PCT/CA2021/051711)
[87] (3151543)
[30] US (63/119,788) 2020-12-01

[21] **3,152,697**
[13] A1

[25] EN
[54] **HIGH VOLTAGE ELECTRICAL SYSTEM FOR BATTERY ELECTRIC VEHICLE**
[54] **SYSTEME ELECTRIQUE HAUTE TENSION POUR UN VEHICULE ELECTRIQUE A BATTERIE**
[72] ASHRAF, UMRAN, US
[72] CORONA, MICHAEL, US
[72] MCLEMORE, T. NEIL, US
[72] SARKISSIAN, VAROUJAN, US
[71] NIKOLA CORPORATION, US
[85] 2022-03-16
[86] 2021-08-16 (PCT/US2021/046172)
[87] (3152697)
[30] US (63/119,401) 2020-11-30

[21] **3,153,104**
[13] A1

[51] **Int.Cl. B23K 31/02 (2006.01) B23K 1/00 (2006.01) B23K 1/19 (2006.01) B23K 9/00 (2006.01) B23K 9/23 (2006.01)**
[25] EN
[54] **HYBRID BUTT-LAP JOINT, AND METHOD OF PRODUCTION**
[54] **JOINT HYBRIDE D'ABOUT-A RECOUVREMENT ET PROCEDE DE PRODUCTION**
[72] CHEN, ZHENG, CA
[71] HER MAJESTY THE QUEEN IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES, CA
[85] 2022-03-30
[86] 2020-10-30 (PCT/CA2020/051470)
[87] (WO2021/081661)
[30] US (62/928,585) 2019-10-31

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[21] **3,154,790**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 90/00 (2016.01)**

[25] EN

[54] **DEVICE FOR MEASURING, PROCESSING AND TRANSMITTING IMPLANT PARAMETERS**

[54] **DISPOSITIF DE MESURE, DE TRAITEMENT ET DE TRANSMISSION DE PARAMETRES D'IMPLANTS**

[72] WINDOLF, MARKUS, CH

[71] AO TECHNOLOGY AG, CH

[85] 2022-04-13

[86] 2020-10-16 (PCT/CH2020/000015)

[87] (WO2021/077235)

[30] CH (01335/19) 2019-10-22

[21] **3,154,805**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C07K 14/47 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **BRAIN-CHIP MODELING NEURODEGENERATION AND NEUROINFLAMMATION IN PARKINSON'S DISEASE**

[54] **MODELISATION CERVEAU SUR PUCE DE LA NEURODEGENERESCENCE ET DE LA NEURO-INFLAMMATION DANS LA MALADIE DE PARKINSON**

[72] PEDIADITAKIS, IOSIF, US

[72] TIEN-STREET, WILLIAM R., US

[72] KERNS, S. JORDAN, US

[72] HAMILTON, GERALDINE, US

[72] LEVNER, DANIEL, US

[71] EMULATE, INC., US

[85] 2022-04-13

[86] 2020-10-19 (PCT/US2020/056245)

[87] (WO2021/077064)

[30] US (62/923,256) 2019-10-18

[30] US (63/045,608) 2020-06-29

[21] **3,154,806**
[13] A1

[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/70 (2020.01)**

[25] EN

[54] **HEATING DEVICE AND MANUFACTURING METHOD THEREFOR, AND HEAT-NOT-BURN SMOKING DEVICE**

[54] **DISPOSITIF DE CHAUFFAGE ET SON PROCEDE DE FABRICATION, ET CIGARETTE ELECTRONIQUE A CHAUFFAGE SANS COMBUSTION**

[72] CHEN, PING, CN

[71] SHENZHEN HUACHENGDA PRECISION INDUSTRY CO. LTD, CN

[85] 2022-04-13

[86] 2020-05-19 (PCT/CN2020/091097)

[87] (WO2021/232250)

[21] **3,154,807**
[13] A1

[51] **Int.Cl. F16L 21/00 (2006.01) F16L 53/32 (2018.01) F16L 17/02 (2006.01) F16L 21/02 (2006.01) F16L 21/03 (2006.01) F16L 25/12 (2006.01) F16L 37/12 (2006.01) F16L 37/133 (2006.01) F16L 37/138 (2006.01)**

[25] FR

[54] **FLUID CIRCUIT COMPRISING A CONNECTING FITTING FOR PIPES, COMPRISING A GUIDE MEMBER FOR A HEATER DUCT**

[54] **CIRCUIT DE FLUIDE COMPRENANT UN RACCORD DE LIAISON POUR CANALISATIONS COMPRENANT UN ORGANE DE GUIDAGE POUR CONDUIT RECHAUFFEUR**

[72] PERHERIN, DANIEL, FR

[71] AIRBUS ATLANTIC, FR

[85] 2022-04-13

[86] 2020-11-24 (PCT/EP2020/083201)

[87] (WO2021/110477)

[30] FR (FR1913858) 2019-12-06

[21] **3,154,808**
[13] A1

[51] **Int.Cl. A24F 40/48 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01)**

[25] EN

[54] **POROUS LIQUID CONDUCTING MEMBER WITH SMOOTH LIQUID CONDUCTION, AND HEATING ASSEMBLY AND ATOMIZING DEVICE THEREWITH**

[54] **CORPS POREUX DE GUIDAGE DE LIQUIDE QUI GUIDE SANS ACCOUPS UN LIQUIDE, ENSEMBLE DE CHAUFFAGE ET APPAREIL D'ATOMISATION**

[72] CHEN, PING, CN

[71] SHENZHEN HUACHENGDA PRECISION INDUSTRY CO. LTD., CN

[85] 2022-04-13

[86] 2020-09-28 (PCT/CN2020/118554)

[87] (WO2022/061926)

[21] **3,154,809**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/01 (2006.01) A61M 25/09 (2006.01) A61N 1/05 (2006.01)**

[25] EN

[54] **STYLET WITH IMPROVED THREADABILITY**

[54] **STYLET A CAPACITE DE VISSAGE AMELIOREE**

[72] HORST, BENJAMIN, US

[72] AMAN, MICHAEL, US

[72] SPINKA, MARK, US

[71] TELEFLEX MEDICAL INCORPORATED, US

[85] 2022-04-13

[86] 2021-10-01 (PCT/US2021/053118)

[87] (WO2022/072795)

[30] US (63/086,583) 2020-10-01

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[21] **3,154,811**
[13] A1

[51] **Int.Cl. H05B 47/17 (2020.01) H01H 19/54 (2006.01)**
[25] EN
[54] **LOAD CONTROL DEVICE HAVING AN ILLUMINATED ROTARY KNOB**
[54] **DISPOSITIF DE COMMANDE DE CHARGE DOTE D'UN BOUTON ROTATIF ECLAIRE**
[72] ALTONEN, GREGORY S., US
[72] DIMBERG, CHRIS, US
[72] MCDONALD, MATTHEW P., US
[72] BHATE, NIKHIL V., US
[72] MICHALSKI, REBECCA, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2022-04-13
[86] 2020-10-15 (PCT/US2020/055785)
[87] (WO2021/076758)
[30] US (62/915,418) 2019-10-15
[30] US (62/983,223) 2020-02-28

[21] **3,154,813**
[13] A1

[51] **Int.Cl. A01N 3/00 (2006.01) A01N 37/06 (2006.01) A01N 43/40 (2006.01)**
[25] EN
[54] **ORGANIC BASED EMULSIONS FOR SUN FILTER APPLICATIONS**
[54] **EMULSIONS A BASE ORGANIQUE POUR APPLICATIONS DE FILTRE SOLAIRE**
[72] FTOUNI, JAMAL, CH
[72] ORLANDO, FABRIZIO, CH
[71] OMYA INTERNATIONAL AG, CH
[85] 2022-04-13
[86] 2020-12-07 (PCT/EP2020/084874)
[87] (WO2021/116015)
[30] EP (19214765.0) 2019-12-10

[21] **3,154,815**
[13] A1

[51] **Int.Cl. C01F 11/18 (2006.01) A01N 3/00 (2006.01) A61K 8/19 (2006.01) A61K 8/72 (2006.01) A61Q 17/04 (2006.01) C08K 3/26 (2006.01) C09C 1/02 (2006.01)**
[25] EN
[54] **DRY COMPOSITIONS, EMULSIONS AND/OR FLUIDS FOR CHEMICAL AND PHYSICAL SUN PROTECTION AND USE THEREOF**
[54] **COMPOSITIONS SECHES, EMULSIONS ET/OU FLUIDES POUR PROTECTION SOLAIRE CHIMIQUE ET PHYSIQUE ET UTILISATION ASSOCIEE**
[72] FTOUNI, JAMAL, CH
[72] ORLANDO, FABRIZIO, CH
[72] SCHOELKOPF, JOACHIM, CH
[71] OMYA INTERNATIONAL AG, CH
[85] 2022-04-13
[86] 2020-12-07 (PCT/EP2020/084936)
[87] (WO2021/116041)
[30] EP (19214857.5) 2019-12-10

[21] **3,154,817**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/46 (2006.01)**
[25] EN
[54] **PEGYLATED KYNURENINASE ENZYMES AND USES THEREOF FOR THE TREATMENT OF CANCER**
[54] **ENZYMES KYNURENINASES PEGYLEES ET LEURS UTILISATIONS POUR LE TRAITEMENT DU CANCER**
[72] NOLAN, JAMES, US
[72] ZHANG, MICHELLE, US
[71] IKENA ONCOLOGY, INC., US
[85] 2022-04-13
[86] 2020-10-16 (PCT/US2020/056082)
[87] (WO2021/076966)
[30] US (62/916,493) 2019-10-17

[21] **3,154,818**
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) C10B 53/02 (2006.01) C10J 3/72 (2006.01)**
[25] EN
[54] **WASTE TO ENERGY CONVERSION WITHOUT CO2 EMISSIONS**
[54] **CONVERSION DE DECHETS EN ENERGIE SANS EMISSIONS DE CO2**
[72] GEINOZ, FRANCOIS, CH
[72] CUENI, MARCEL, CH
[72] YAKOB, KAMERAN, CH
[71] M.E.D. ENERGY INC., US
[85] 2022-04-13
[86] 2020-11-14 (PCT/US2020/060617)
[87] (WO2021/077123)

[21] **3,154,819**
[13] A1

[51] **Int.Cl. C12N 5/07 (2010.01) A61K 35/17 (2015.01) A61P 17/00 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **MATERIALS AND METHODS FOR TREATING VITILIGO**
[54] **AGENTS ET PROCEDES DE TRAITEMENT DU VITILIGO**
[72] LE POOLE, I. CAROLINE, US
[72] MUKHATAYEV, ZHUSSIPBEK, US
[72] JUNGHANS, RICHARD PAUL, US
[71] NORTHWESTERN UNIVERSITY, US
[85] 2022-04-13
[86] 2020-10-16 (PCT/US2020/056104)
[87] (WO2021/076980)
[30] US (62/915,945) 2019-10-16

[21] **3,154,820**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A01M 1/00 (2006.01) A01N 1/00 (2006.01)**
[25] EN
[54] **PORT SYSTEM AND METHOD FOR AN EMBALMING MACHINE**
[54] **SYSTEME D'ORIFICE ET PROCEDE POUR UNE MACHINE D'EMBAUMEMENT**
[72] YEAZEL, BRIAN, US
[72] SMITH, MATT, US
[71] FRIGID FLUID COMPANY, US
[85] 2022-04-13
[86] 2020-10-15 (PCT/US2020/055798)
[87] (WO2021/076768)
[30] US (62/915,081) 2019-10-15

Demandes PCT entrant en phase nationale

[21] **3,154,822**
[13] A1

[51] **Int.Cl. H02P 21/26 (2016.01) H02P 21/24 (2016.01) H02P 25/024 (2016.01)**

[25] EN

[54] **PARAMETERLESS POSITION-SENSORLESS PERMANENT MAGNET SYNCHRONOUS MOTOR CONTROL METHOD BASED ON MTPA**

[54] **PROCEDE DE COMMANDE DE MOTEUR SYNCHRONE A AIMANTS PERMANENTS SANS CAPTEUR DE POSITION ET SANS PARAMETRE BASE SUR MTPA**

[72] LIU, NING, CN
[72] GUO, WEI, CN
[72] YANG, YAN, CN
[71] ZHONGSHAN BROAD-OCEAN MOTOR CO., LTD., CN

[85] 2022-04-13
[86] 2019-11-01 (PCT/CN2019/114919)
[87] (WO2021/081968)
[30] CN (201911028408.9) 2019-10-28

[21] **3,154,823**
[13] A1

[51] **Int.Cl. G06K 19/077 (2006.01) H04W 4/80 (2018.01) F16L 37/12 (2006.01) G06K 7/10 (2006.01) G06K 19/07 (2006.01)**

[25] EN

[54] **FLUID LINE CONNECTOR AND ASSEMBLY WITH SECUREMENT DETECTION**

[54] **RACCORD ET ENSEMBLE DE CONDUITE DE FLUIDE AVEC DETECTION DE FIXATION**

[72] PUVOGEL, THOMAS A., US
[72] IGNACZAK, BRIAN T., US
[72] SCHINDLER, RENE, DE
[71] NORMA U.S. HOLDING LLC, US

[85] 2022-04-13
[86] 2020-10-30 (PCT/US2020/058113)
[87] (WO2021/087201)
[30] US (16/671,520) 2019-11-01

[21] **3,154,824**
[13] A1

[51] **Int.Cl. C21B 5/00 (2006.01) C21B 7/00 (2006.01)**

[25] EN

[54] **METHOD OF OPERATING BLAST FURNACE AND BLAST FURNACE ANCILLARY FACILITY**

[54] **PROCEDE D'EXPLOITATION DE HAUT-FOURNEAU ET EQUIPEMENT AUXILIAIRE DE HAUT-FOURNEAU**

[72] TAKAHASHI, KOICHI, JP
[72] NOUCHI, TAIHEI, JP
[72] OZAWA, SUMITO, JP
[72] KAWASHIRI, YUKI, JP
[72] MORITA, YUYA, JP
[71] JFE STEEL CORPORATION, JP

[85] 2022-04-13
[86] 2020-11-11 (PCT/JP2020/042144)
[87] (WO2021/106578)
[30] JP (2019-212514) 2019-11-25

[21] **3,154,825**
[13] A1

[51] **Int.Cl. E21B 43/1185 (2006.01)**

[25] EN

[54] **CONVERTIBLE AND ADDRESSABLE SWITCHASSEMBLY FOR WELLBORE OPERATIONS**

[54] **ENSEMBLE COMMUTATEUR CONVERTIBLE ET ADRESSABLE POUR OPERATIONS DE Puits DE FORAGE**

[72] ARCHIBALD, ROGER, US
[72] PERRY, BRAD, US
[71] GEODYNAMICS, INC., US

[85] 2022-04-13
[86] 2020-10-16 (PCT/US2020/056069)
[87] (WO2021/076955)
[30] US (62/923,132) 2019-10-18

[21] **3,154,826**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12N 15/67 (2006.01) C12N 15/79 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR USING ALTERNATIVE SPLICING TO CONTROL SPECIFICITY OF GENE THERAPY**

[54] **COMPOSITIONS ET PROCEDES D'UTILISATION D'EPISSAGE ALTERNATIF POUR REGULER LA SPECIFICITE DE LA THERAPIE GENIQUE**

[72] LING, JONATHAN P., US
[72] BLACKSHAW, SETH, US
[71] THE JOHNS HOPKINS UNIVERSITY, US

[85] 2022-04-13
[86] 2020-10-16 (PCT/US2020/056156)
[87] (WO2021/077017)
[30] US (62/916,396) 2019-10-17

[21] **3,154,827**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/85 (2006.01)**

[25] EN

[54] **METHODS FOR MODULATING HUMAN L1 RETROTRANSPOSONS RNA AND COMPOSITIONS FOR USE THEREIN**

[54] **PROCEDES DE MODULATION D'ARN DE RETROTRANSPOSONS L1 HUMAINS ET COMPOSITIONS A UTILISER DANS POUR LES METTRE EN ?UVRE**

[72] ORLANDO, VALERIO, SA
[72] DELLA VALLE, FRANCESCO, SA
[72] MANGIAVACCHI, ARIANNA, SA
[72] IZPISUA-BELMONTE, JUAN CARLOS, US

[72] REDDY, PRADEEP DUBBAKA VENU, US

[71] KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, SA
[71] SALK INSTITUTE FOR BIOLOGICAL STUDIES, US

[85] 2022-04-13
[86] 2020-10-16 (PCT/US2020/056097)
[87] (WO2021/076977)
[30] US (62/916,096) 2019-10-16
[30] US (62/945,535) 2019-12-09

PCT Applications Entering the National Phase

[21] **3,154,828**
[13] A1

[51] **Int.Cl. B65D 83/04 (2006.01) B32B 15/08 (2006.01)**
[25] EN
[54] **A COLD FORM LAMINATE WITH HIGH BARRIER TO CROSS MIGRATION OF WATER VAPOR AND OXYGEN**
[54] **STRATIFIE FORME A FROID AVEC UNE BARRIERE ELEVEE VIS-A-VIS DE LA MIGRATION CROISEE DE VAPEUR D'EAU ET D'OXYGENE**
[72] SINGH, KARAN, IN
[72] PASBRIG, ERWIN, IN
[72] CHOUGULE, SANTOSH, IN
[71] SCITECH CENTRE, IN
[71] ACG PHARMAPACK PRIVATE LIMITED, IN
[85] 2022-04-13
[86] 2020-10-20 (PCT/IB2020/059831)
[87] (WO2021/084373)
[30] IN (201921044189) 2019-10-31

[21] **3,154,829**
[13] A1

[51] **Int.Cl. A61M 1/28 (2006.01) G16H 20/10 (2018.01) G16H 20/17 (2018.01) G16H 20/40 (2018.01) G16H 40/40 (2018.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01) A61M 1/14 (2006.01)**
[25] EN
[54] **MEDICAL FLUID DELIVERY SYSTEM INCLUDING ANALYTICS FOR MANAGING PATIENT ENGAGEMENT AND TREATMENT COMPLIANCE**
[54] **SYSTEME D'ADMINISTRATION DE FLUIDE MEDICAL COMPRENANT UNE ANALYTIQUE DE GESTION DE COOPERATION ET D'OBSERVANCE DE TRAITEMENT DE PATIENT**
[72] GARCIA, CHRISTY ELIZABETH, US
[72] KUDELKA, TIMOTHY LOUIS, US
[72] HANDLER, JONATHAN ALAN, US
[72] KELEMEN, ION JANOS, US
[72] PENNY, MARK ANTHONY, US
[72] SARTO, ANGELO A., US
[72] GEBHARDT, ANDREW THOMAS, US
[72] KHORZAD, ASHKAN, US
[72] TESSELL, RICHARD SCOTT, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2022-04-13
[86] 2020-11-05 (PCT/US2020/059117)
[87] (WO2021/092178)
[30] US (62/930,889) 2019-11-05

[21] **3,154,830**
[13] A1

[51] **Int.Cl. H05K 1/00 (2006.01) H05K 3/10 (2006.01)**
[25] EN
[54] **ELECTRONICS ASSEMBLY**
[54] **ENSEMBLE ELECTRONIQUE**
[72] CROWLEY, DANIEL CHRISTOPHER, AU
[72] SHOEIBY, BABAK, AU
[72] PRAZERES, JOSE RALINO ELIAS GOMES, AU
[72] JAHSHAN, DAVID ELIAS, AU
[72] CAPLES, MILES, AU
[71] RELECTRIFY HOLDINGS PTY, AU
[85] 2022-04-13
[86] 2020-10-16 (PCT/AU2020/051112)
[87] (WO2021/072497)
[30] AU (2019903898) 2019-10-16

[21] **3,154,831**
[13] A1

[51] **Int.Cl. C08L 51/08 (2006.01) C11D 3/37 (2006.01) C11D 7/26 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **PARTICULATE FABRIC CARE COMPOSITION**
[54] **COMPOSITION D'ENTRETIEN DE TISSUS PARTICULAIRE**
[72] FOSSUM, RENAE DIANNA, US
[72] GONZALEZ, LIDIANY, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-04-13
[86] 2020-12-17 (PCT/US2020/070920)
[87] (WO2021/127697)
[30] US (16/722,492) 2019-12-20

[21] **3,154,832**
[13] A1

[51] **Int.Cl. H04W 74/00 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DOWNLINK CONTROL INFORMATION**
[54] **PROCEDE ET APPAREIL DESTINES A DES INFORMATIONS DE COMMANDE DE LIAISON DESCENDANTE**
[72] LIN, ZHIPENG, CN
[72] HARRISON, ROBERT MARK, US
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2022-04-13
[86] 2020-10-14 (PCT/CN2020/120900)
[87] (WO2021/073534)
[30] CN (PCT/CN2019/111079) 2019-10-14

[21] **3,154,833**
[13] A1

[51] **Int.Cl. H01S 5/022 (2021.01) H01S 5/40 (2006.01)**
[25] EN
[54] **LASER CONNECTION MODULE**
[54] **MODULE DE CONNEXION LASER**
[72] FERNANDEZ SANMIGUEL, LUIS JORGE, ES
[72] ORIACH FONT, CARLES, ES
[72] FRANCO BLANES, GERMAN, ES
[72] PATRICIO FRESQUET, EZEQUIEL, ES
[72] SAFONT CAMPRUBI, GEMMA, ES
[72] CARBONELL SANROMA, EDUARD, ES
[71] MONOCROM S.L., ES
[85] 2022-04-13
[86] 2019-10-17 (PCT/ES2019/070707)
[87] (WO2021/074460)

Demandes PCT entrant en phase nationale

[21] **3,154,834**
[13] A1

[51] **Int.Cl. G16H 20/00 (2018.01) G16H 40/60 (2018.01) G16H 40/67 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD OF AEROSOL DELIVERY**

[54] **SYSTEME ET PROCEDE D'ADMINISTRATION D'AEROSOL**

[72] MOLONEY, PATRICK, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-09-17 (PCT/GB2020/052250)

[87] (WO2021/074582)

[30] GB (1914952.5) 2019-10-16

[21] **3,154,835**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01)**

[25] EN

[54] **AEROSOL PROVISION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FOURNITURE D'AEROSOL**

[72] MOLONEY, PATRICK, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-09-17 (PCT/GB2020/052248)

[87] (WO2021/074580)

[30] GB (1914949.1) 2019-10-16

[21] **3,154,837**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12Q 1/6886 (2018.01) C12Q 1/68 (2018.01) C40B 30/04 (2006.01) C40B 40/06 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY FOR TREATMENT OF CANCERS**

[54] **MULTITHERAPIE POUR LE TRAITEMENT DE CANCERS**

[72] BATTAGLIA, SEBASTIANO, US

[71] HEALTH RESEARCH, INC., US

[85] 2022-04-13

[86] 2020-10-16 (PCT/US2020/056150)

[87] (WO2021/077013)

[30] US (62/916,025) 2019-10-16

[21] **3,154,838**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) G16H 20/10 (2018.01) A24F 40/53 (2020.01) A61M 15/06 (2006.01)**

[25] EN

[54] **AEROSOL PROVISION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FOURNITURE D'AEROSOL**

[72] MOLONEY, PATRICK, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-09-17 (PCT/GB2020/052249)

[87] (WO2021/074581)

[30] GB (1914951.7) 2019-10-16

[21] **3,154,839**
[13] A1

[51] **Int.Cl. A61M 1/00 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **LINEAR CARDIAC ASSIST PULSATILE PUMP**

[54] **POMPE PULSATILE LINEAIRE D'ASSISTANCE CARDIAQUE**

[72] SMITH, STEVE C., US

[72] BABSON, BRIAN A., US

[71] SUMMACOR, INC., US

[85] 2022-04-13

[86] 2020-10-16 (PCT/US2020/056142)

[87] (WO2021/077008)

[30] US (62/923,542) 2019-10-19

[30] US (63/044,298) 2020-06-25

[21] **3,154,840**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01)**

[25] EN

[54] **AEROSOL DELIVERY DEVICE**

[54] **DISPOSITIF DE DISTRIBUTION D'AEROSOL**

[72] SUTTON, JOSEPH, GB

[72] ANGELL, TERRY LEE, GB

[72] MULLIN, MARTIN CONRAD, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-10-15 (PCT/GB2020/052592)

[87] (WO2021/074624)

[30] GB (1914979.8) 2019-10-16

[21] **3,154,841**
[13] A1

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/4725 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61P 7/06 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **BICYCLIC COMPOUND AND USE THEREOF**

[54] **COMPOSE BICYCLIQUE ET SON UTILISATION**

[72] SHIN, YONG JE, KR

[72] KIM, JIN HEE, KR

[72] LEE, JUN, KR

[72] CHOI, HYUN SUK, KR

[72] KIM, SE HYUK, KR

[72] KANG, EUN JI, KR

[72] PARK, SOOK KYUNG, KR

[72] LEE, HO YOUL, KR

[72] LEE, HO YEON, KR

[71] SK BIOPHARMACEUTICALS CO., LTD., KR

[85] 2022-04-13

[86] 2020-10-22 (PCT/KR2020/014530)

[87] (WO2021/080359)

[30] KR (10-2019-0132452) 2019-10-23

[21] **3,154,842**
[13] A1

[51] **Int.Cl. A01H 5/08 (2018.01) A01H 6/82 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **TORRADOVIRUS RESISTANCE GENE**

[54] **GENE DE RESISTANCE AU TORRADOVIRUS**

[72] NOWOSIELSKI, AGATHE ANNA, NL

[72] DRAGER, DORTHE BETTINA, NL

[72] KOOPMANS, ROY, NL

[71] RIJK ZWAAN ZAADTEELT EN ZAADHANDEL B.V., NL

[85] 2022-04-13

[86] 2020-12-21 (PCT/EP2020/087448)

[87] (WO2021/123429)

[30] EP (PCT/EP2019/086815) 2019-12-20

PCT Applications Entering the National Phase

[21] **3,154,843**
[13] A1

[51] **Int.Cl. A24F 40/05 (2020.01) A24F 40/50 (2020.01) A24F 40/57 (2020.01) A61M 11/00 (2006.01) A61M 15/06 (2006.01)**

[25] EN

[54] **DELIVERY PREDICTION APPARATUS AND METHOD**

[54] **APPAREIL ET PROCEDE DE PREDICTION DE DISTRIBUTION**

[72] MOLONEY, PATRICK, GB

[72] CHAN, JUSTIN HAN YANG, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-09-17 (PCT/GB2020/052245)

[87] (WO2021/074577)

[30] GB (1914944.2) 2019-10-16

[21] **3,154,844**
[13] A1

[51] **Int.Cl. C12C 1/02 (2006.01) A23L 7/10 (2016.01) B02C 7/13 (2006.01) B02C 9/02 (2006.01) B02C 18/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR OPTIMISING GREEN MALT FOR A BREWING PROCESS AND THE OBTAINED GREEN MALT**

[54] **PROCEDE ET DISPOSITIF D'OPTIMISATION DU MALT VERT POUR UN PROCEDE D'INFUSION ET MALT VERT OBTENU**

[72] CHAPELLE, GERT, BE

[72] AERTS, GUIDO, BE

[71] BW PROCESTECHNIEK, NAAMLOZE VENNOOTSCHAP, BE

[85] 2022-04-13

[86] 2020-11-03 (PCT/IB2020/060303)

[87] (WO2021/099867)

[30] BE (2019/5802) 2019-11-20

[21] **3,154,846**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01)**

[25] EN

[54] **ELECTRONIC AEROSOL PROVISION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE FOURNITURE D'AEROSOL ELECTRONIQUE**

[72] MOLONEY, PATRICK, GB

[72] CHAN, JUSTIN HAN YANG, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-09-17 (PCT/GB2020/052252)

[87] (WO2021/074583)

[30] GB (1914947.5) 2019-10-16

[21] **3,154,847**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/53 (2020.01) A24F 40/60 (2020.01)**

[25] EN

[54] **SYSTEM COMPRISING AN AEROSOL PROVISION SYSTEM AND A COMPUTER**

[54] **SYSTEME COMPRENANT UN SYSTEME DE FOURNITURE D'AEROSOL ET UN ORDINATEUR**

[72] ROSSER, NICHOLAS, GB

[72] BRUTON, CONNOR, GB

[72] NANDRA, CHARANJIT, GB

[72] RUSHFORTH, DAVID, GB

[72] BAKER, DARRYL, GB

[72] KERSEY, ROBERT, GB

[72] CROSIER, MARK, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2022-04-13

[86] 2020-10-14 (PCT/GB2020/052555)

[87] (WO2021/074610)

[30] GB (1914949.1) 2019-10-16

[30] GB (2010612.6) 2020-07-10

[21] **3,154,848**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **USE OF RESORUFIN FOR MONITORING METABOLIC ACTIVITY OF CELLS UNDER ANAEROBIC CONDITION**

[54] **UTILISATION DE LA RESORUFINE POUR SURVEILLER L'ACTIVITE METABOLIQUE DE CELLULES EN CONDITIONS ANAEROBIES**

[72] DUNNE, JUDE, US

[72] JEWELL, TALIA, US

[72] HALLOCK, ALEXANDER, US

[71] GENERAL AUTOMATION LAB TECHNOLOGIES INC., US

[85] 2022-04-13

[86] 2020-10-18 (PCT/US2020/056208)

[87] (WO2021/077057)

[30] US (62/923,321) 2019-10-18

[30] US (63/009,398) 2020-04-13

[21] **3,154,849**
[13] A1

[51] **Int.Cl. C07K 14/34 (2006.01) A61P 31/04 (2006.01) C07K 1/10 (2006.01) C07K 14/21 (2006.01) C07K 14/22 (2006.01) C07K 14/285 (2006.01)**

[25] EN

[54] **CARRIER PROTEIN WITH SITE-DIRECTED MUTATION AND USE THEREOF IN PREPARATION OF VACCINE**

[54] **PROTEINE PORTEUSE AYANT UNE MUTATION DIRIGEE SUR SITE ET SON UTILISATION DANS LA PREPARATION D'UN VACCIN**

[72] WANG, HAOMENG, CN

[72] YAN, QIAOLING, CN

[72] CHAO, SHOUBAI, CN

[72] MAO, HUIHUA, CN

[72] ZHU, TAO, CN

[71] CANSINO BIOLOGICS INC., CN

[85] 2022-04-13

[86] 2020-09-25 (PCT/CN2020/117825)

[87] (WO2021/073402)

[30] CN (201910978406.X) 2019-10-15

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[21] 3,154,850 [13] A1	[21] 3,154,874 [13] A1	[21] 3,154,876 [13] A1
[51] Int.Cl. A61B 3/103 (2006.01) A61B 3/12 (2006.01)	[51] Int.Cl. A01N 43/40 (2006.01) A01N 43/713 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01)	[51] Int.Cl. A61K 35/12 (2015.01) C12N 5/0783 (2010.01) A61P 37/02 (2006.01) A61P 37/04 (2006.01)
[25] EN	[25] EN	[25] EN
[54] METHOD AND DEVICE FOR GENERATING REFRACTIVE PATTERN, AND COMPUTER-READABLE STORAGE MEDIUM	[54] NICOTINAMIDE COMPOUND AND HERBICIDAL COMPOSITION COMPRISING COMPOUND	[54] COMPOSITIONS AND METHODS FOR IN VITRO ACTIVATION AND EXPANSION OF SERIAL KILLER T CELL POPULATIONS AND PASSIVE IMMUNIZATION OF A CANCER PATIENT WITH TUMOR CELL KILLING CELLS
[54] PROCEDE ET DISPOSITIF DE GENERATION DE MOTIF DE REFRACTION, ET SUPPORT D'ENREGISTREMENT LISIBLE PAR ORDINATEUR	[54] COMPOSE NICOTINAMIDE ET COMPOSITION HERBICIDE LE COMPRENANT	[54] COMPOSITIONS ET PROCEDES POUR L'ACTIVATION ET L'EXPANSION IN VITRO DE POPULATIONS DE LYMPHOCYTES T TUEURS EN SERIE ET L'IMMUNISATION PASSIVE D'UN PATIENT ATTEINT D'UN CANCER AVEC DES CELLULES TUEUSES DE CELLULES TUMORALE
[72] WANG, NINGLI, CN	[72] KO, YOUNG KWAN, KR	[72] BORRIELLO, FRANK, US
[72] DONG, XUECHUAN, CN	[72] KIM, EUN AE, KR	[71] ALLOPLEX BIOTHERAPEUTICS, US
[72] HUANG, YEQUAN, CN	[72] LEE, ILL YOUNG, KR	[85] 2022-04-14
[72] CUI, YAN, CN	[72] LIM, HEE NAM, KR	[86] 2020-10-21 (PCT/US2020/056698)
[72] GUO, JINGYUN, CN	[72] CHOI, JUNG SUB, KR	[87] (WO2021/081115)
[71] SHENZHEN THONDAR TECHNOLOGY CO., LTD, CN	[72] SUH, JEE HEE, KR	[30] US (16/660,442) 2019-10-22
[85] 2022-04-13	[72] KIM, NACK JEONG, KR	
[86] 2020-04-07 (PCT/CN2020/083552)	[72] KIM, DONG WAN, KR	
[87] (WO2021/184452)	[72] KIM, HYUN JIN, KR	
[30] CN (202010185058.3) 2020-03-16	[72] YON, GYU HWAN, KR	
	[72] KIM, JAE DEOK, KR	
	[72] OH, SEUNGAE, KR	
	[72] LEE, SO-YOUNG, KR	
	[72] PARK, CHAN YONG, KR	
	[72] HWANG, YUN KYOUNG, KR	
	[72] AHN, BYUNG HOON, KR	
	[72] KIM, AH REUM, KR	
	[72] HAN, HYE JI, KR	
	[72] PARK, SUNGJUN, KR	
	[72] CHOI, JUNHYUK, KR	
	[72] LIM, JISOO, KR	
	[72] HONG, MI SOOK, KR	
	[71] KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, KR	
	[71] FARMHANNONG CO., LTD., KR	
	[85] 2022-04-14	
	[86] 2020-10-21 (PCT/KR2020/014438)	
	[87] (WO2021/080330)	
	[30] KR (10-2019-0130935) 2019-10-21	
		[21] 3,154,880 [13] A1
		[51] Int.Cl. C08G 63/78 (2006.01) C08G 63/91 (2006.01) C08J 11/04 (2006.01)
		[25] EN
		[54] COPOLYESTERS PRODUCED FROM RECYCLED COPOLYESTERS
		[54] COPOLYESTERS PRODUITS A PARTIR DE COPOLYESTERS RECYCLES
		[72] PETERS, MARK ALLEN, US
		[72] HORTON, JONATHAN MICHAEL, US
		[72] KEEVER, TRAVIS WYNN, US
		[72] EKART, MICHAEL PAUL, US
		[72] EKART, ERIN G., US
		[71] EASTMAN CHEMICAL COMPANY, US
		[85] 2022-04-14
		[86] 2020-10-08 (PCT/US2020/054684)
		[87] (WO2021/080777)
		[30] US (62/925,887) 2019-10-25
		[30] US (62/925,882) 2019-10-25

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[21] **3,154,881**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/00 (2006.01) C07K 14/47 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **HER2/4-1BB BISPECIFIC FUSION PROTEINS FOR THE TREATMENT OF CANCER**

[54] **PROTEINES HYBRIDES BISPECIFIQUES HER2/4-1BB POUR LE TRAITEMENT DU CANCER**

[72] OLWILL, SHANE, DE
[72] MATIS, LOUIS, DE
[72] BRUNS, INGMAR, DE
[72] DUERR, MANUELA, DE
[72] YUSUF, RUSHDIA ZAREEN, DE
[72] ZETTL, MARKUS, DE
[72] ALLERSDORFER, ANDREA, DE
[72] KASTRESANA, AIZEA MORALES, DE
[72] SCHLOSSER, CORINNA, DE
[71] PIERIS PHARMACEUTICALS GMBH, DE
[85] 2022-04-14
[86] 2020-11-04 (PCT/EP2020/080892)
[87] (WO2021/089588)
[30] US (62/930,512) 2019-11-04
[30] US (63/080,361) 2020-09-18

[21] **3,154,884**
[13] A1

[51] **Int.Cl. A61M 39/02 (2006.01) A61B 17/34 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **VASCULAR ACCESS DEVICE AND METHOD**

[54] **METHODE ET DISPOSITIF D'ACCES VASCULAIRE**

[72] MURPHY, SCOTT RYAN, AU
[72] KYUNG, CHRIS, AU
[72] ROGAN, CHRISTOPHER MICHAEL, AU
[72] KHIN, NYAN YE, AU
[72] LANE, DAVID MICHAEL, AU
[72] LANE, RODNEY JAMES, AU
[71] ALL VASCULAR PTY LIMITED, AU
[85] 2022-04-14
[86] 2020-10-16 (PCT/AU2020/051121)
[87] (WO2021/072506)
[30] AU (2019903897) 2019-10-16

[21] **3,154,885**
[13] A1

[51] **Int.Cl. G01N 33/18 (2006.01) C02F 1/00 (2006.01) C02F 3/00 (2006.01) C12M 1/34 (2006.01) C12Q 1/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF MONITORING MICROBIAL METABOLIC PROCESSES**

[54] **SYSTEME ET PROCEDE DE CONTROLE DE REACTIONS METABOLIQUES MICROBIENNES**

[72] CROOK, SPENCER RONALD, CA
[72] DUMITRACHE, ROMEO GABRIEL, CA
[72] KROUKAMP, MARTHINUS, CA
[72] RONAN, EVAN LINDSAY GILMORE, CA
[72] RONAN, PATRICK CHARLES GILMORE, CA
[71] AQUASIGNUM INC., CA
[85] 2022-04-14
[86] 2020-10-15 (PCT/CA2020/051383)
[87] (WO2021/072541)
[30] US (62/915,675) 2019-10-16

[21] **3,154,887**
[13] A1

[51] **Int.Cl. H01J 1/00 (2006.01) B23K 15/00 (2006.01) B23K 15/06 (2006.01) H01J 1/02 (2006.01) H01J 1/30 (2006.01) H01J 37/05 (2006.01) H01J 37/073 (2006.01) H05H 1/24 (2006.01)**

[25] EN

[54] **ELECTRON BEAM WELDING SYSTEMS EMPLOYING A PLASMA CATHODE**

[54] **SYSTEMES DE SOUDAGE PAR FAISCEAU D'ELECTRONS UTILISANT UNE CATHODE A PLASMA**

[72] NOONAN, JOHN, US
[72] WALTERS, DEAN, US
[71] US ELECTRON, INC., US
[85] 2022-04-14
[86] 2020-10-16 (PCT/US2020/056043)
[87] (WO2021/076934)
[30] US (62/916,214) 2019-10-16

[21] **3,154,890**
[13] A1

[51] **Int.Cl. C07D 403/14 (2006.01) C07D 407/14 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING A HEMATOLOGICAL CANCER AND THE USE OF COMPANION BIOMARKERS FOR 2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)IS OINDOLINE-1,3-DION**

[54] **METHODES DE TRAITEMENT D'UN CANCER HEMATOLOGIQUE ET UTILISATION DE BIOMARQUEURS COMPAGNONS POUR 2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)IS OINDOLINE-1,3-DION**

[72] ANTON, MARIA SORAYA CARRANCIO, US
[72] FONTANILLO, CELIA FONTANILLO, US
[72] KASIBHATLA, SHAILAJA, US
[72] LOPEZ-GIRONA, ANTONIA, US
[72] LU, GANG, US
[72] WANG, KAI, US
[71] CELGENE CORPORATION, US
[85] 2022-04-14
[86] 2020-10-20 (PCT/US2020/056431)
[87] (WO2021/080950)
[30] US (62/924,044) 2019-10-21

[21] **3,154,892**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/24 (2006.01) A61K 8/31 (2006.01) A61K 8/34 (2006.01) A61K 8/81 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **STABILIZED AMORPHOUS CALCIUM MAGNESIUM PHOSPHATE PARTICLE COMPOSITIONS**

[54] **COMPOSITIONS DE PARTICULES DE PHOSPHATE DE MAGNESIUM ET DE CALCIUM AMORPHE STABILISEES**

[72] UNOSSON, ERIK, SE
[72] LINDSTROM, TOMAS, SE
[71] PSILOX AB, SE
[85] 2022-04-14
[86] 2020-10-23 (PCT/SE2020/051029)
[87] (WO2021/086252)
[30] SE (1951240-9) 2019-10-30

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[21] **3,154,895**
[13] A1

[51] **Int.Cl. E21B 33/128 (2006.01) E21B 23/01 (2006.01) E21B 23/06 (2006.01) E21B 33/129 (2006.01) E21B 33/134 (2006.01)**

[25] EN

[54] **DOWNHOLE TOOL AND METHOD OF USE**

[54] **OUTIL DE FOND DE TROU ET PROCEDE D'UTILISATION**

[72] SLUP, GABRIEL, US

[72] CORONADO, MARTIN, US

[71] THE WELLBOSS COMPANY, LLC, US

[85] 2022-04-14

[86] 2020-10-16 (PCT/US2020/055907)

[87] (WO2021/076842)

[30] US (62/916,034) 2019-10-16

[21] **3,154,899**
[13] A1

[51] **Int.Cl. A61N 1/39 (2006.01)**

[25] EN

[54] **REAL TIME DEFIBRILLATOR INCIDENT DATA**

[54] **DONNEES D'INCIDENT DE DEFIBRILLATEUR EN TEMPS REEL**

[72] BEYER, RORY M., US

[72] BONGBERG, MICAH R., US

[72] JAFRI, SAMEER, US

[72] ANDREWS, GORDON MOSELEY P., US

[71] AVIVE SOLUTIONS, INC., US

[85] 2022-04-14

[86] 2021-01-22 (PCT/US2021/014757)

[87] (WO2021/150992)

[30] US (62/964,936) 2020-01-23

[30] US (16/847,018) 2020-04-13

[30] US (63/081,166) 2020-09-21

[21] **3,154,900**
[13] A1

[51] **Int.Cl. A63B 21/00 (2006.01) A63B 24/00 (2006.01)**

[25] EN

[54] **MODULAR ELECTROMAGNETIC DRIVE FOR FITNESS APPLICATIONS**

[54] **ENTRAINEMENT ELECTROMAGNETIQUE MODULAIRE POUR APPLICATIONS DE CULTURE PHYSIQUE**

[72] RUBIN, ZACHARY M., US

[71] ARENA INNOVATION CORP., US

[85] 2022-04-14

[86] 2020-10-14 (PCT/US2020/055603)

[87] (WO2021/076641)

[30] US (62/914,899) 2019-10-14

[21] **3,154,901**
[13] A1

[51] **Int.Cl. F16L 13/14 (2006.01)**

[25] EN

[54] **PROFILED LEAK-BEFORE-PRESS SEALING RING FOR A PRESS FITTING WITH ARC-SHAPED FIRST TYPE RING PORTIONS ALTERNATING WITH LINEAR-SHAPED SECOND TYPE RING PORTIONS**

[54] **BAGUE D'ETANCHEITE PROFILEE LBP (LEAK-BEFORE-PRESS) POUR UN EMMANAGEMENT A LA PRESSE AVEC DES PARTIES ANNULAIRES DE PREMIER TYPE EN FORME D'ARC ALTERNANT AVEC DES PARTIES ANNULAIRES DE DEUXIEME TYPE DE FORME LINEAIRE**

[72] HULLEGIEN, ANDREAS HUBERTUS, NL

[71] AALBERTS INTEGRATED PIPING SYSTEMS B.V., NL

[85] 2022-04-14

[86] 2020-10-21 (PCT/EP2020/079564)

[87] (WO2021/078769)

[30] NL (2024068) 2019-10-21

[21] **3,154,902**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**

[25] EN

[54] **CANCER DETECTION METHODS**

[54] **METHODES DE DETECTION DU CANCER**

[72] WETTERSKOG, DANIEL, GB

[72] WU, ANJUI, GB

[72] ATTARD, GERHARDT, GB

[72] CREMASCHI, PAOLO, GB

[71] CANCER RESEARCH TECHNOLOGY LIMITED, GB

[85] 2022-04-14

[86] 2020-10-23 (PCT/GB2020/052706)

[87] (WO2021/079158)

[30] GB (1915469.9) 2019-10-24

[21] **3,154,904**
[13] A1

[51] **Int.Cl. C01B 3/00 (2006.01) C01B 3/06 (2006.01) C07F 7/02 (2006.01) C07F 7/08 (2006.01) C08G 77/12 (2006.01) C08G 77/16 (2006.01) C08G 77/24 (2006.01) C08G 77/38 (2006.01) C08L 83/04 (2006.01)**

[25] EN

[54] **HYDROGEN CARRIER COMPOUNDS**

[54] **COMPOSES PORTEURS D'HYDROGENE**

[72] BURCHER, BENJAMIN, FR

[72] LOME, VINCENT, FR

[72] BENOIT, REMY, FR

[72] BOSSET, CYRIL, FR

[72] AIRIAU, ETIENNE, FR

[72] ESCUDIE, YANNICK, FR

[71] HYSILABS SAS, FR

[85] 2022-04-14

[86] 2020-10-29 (PCT/EP2020/080464)

[87] (WO2021/084044)

[30] EP (19306419.3) 2019-10-31

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[21] **3,154,908**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING (S)-2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)IS OINDOLINE-1,3-DIONE AND METHODS OF USING THE SAM**

[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT DU (S)-2-(2,6-DIOXOPIPERIDINE-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDINE-1-YL)METHYL)BENZYL)AMINO)IN SOINDOLINE-1,3)-DIONE ET METHODES D'UTILISATION ASSOCIEE**

[72] BHAT, SREENIVAS S., US
[72] BOULINEAU, FABIEN, US
[72] CARROLL, DONNA, US
[72] GAEBELE, TRACY LEE, US
[72] GONG, YUCHUAN, US
[72] HONG, ISABEL MINJUNG, US
[72] LI, ZHENGMAO, US
[72] TIAN, YE, US
[71] CELGENE CORPORATION, US
[85] 2022-04-14
[86] 2020-10-20 (PCT/US2020/056410)
[87] (WO2021/080937)
[30] US (62/923,927) 2019-10-21

[21] **3,154,909**
[13] A1

[51] **Int.Cl. B01F 23/2375 (2022.01) B01F 23/411 (2022.01) B01F 33/05 (2022.01)**

[25] EN

[54] **A SYSTEM, METHOD AND GENERATOR FOR GENERATING NANOBUBBLES OR NANODROPLETS AT AMBIENT CONDITIONS**

[54] **SYSTEME, PROCEDE ET GENERATEUR DE GENERATION DE NANOBULLES OU DE NANOGOUTTELETTES DANS DES CONDITIONS AMBIANTES**

[72] ENGLISH, NIALL, IE
[72] REZA GHAANI, MOHAMMAD, IE
[71] UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN, IE

[85] 2022-04-14
[86] 2020-04-21 (PCT/EP2020/061107)
[87] (3154909)
[30] EP (PCT/EP2019/078017) 2019-10-15
[30] EP (PCT/EP2019/078003) 2019-10-15

[21] **3,154,911**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 34/00 (2006.01) F16K 1/46 (2006.01) F16K 25/00 (2006.01)**

[25] EN

[54] **WEAR-RESISTANT HYDRAULIC FRACTURING PUMP VALVES**

[54] **SOUPAPES DE POMPE DE FRACTURATION HYDRAULIQUE RESISTANTES A L'USURE**

[72] SKURDALSVOLD, SCOTT, US
[72] DOCHERTY, CONNOR JAMES, US
[72] HARRIS, RALPH E., US
[71] SPM OIL & GAS INC., US
[85] 2022-04-14
[86] 2020-10-26 (PCT/US2020/057388)
[87] (WO2021/081513)
[30] US (62/926,250) 2019-10-25

[21] **3,154,912**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61P 25/28 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **SELECTIVE LIGANDS FOR TAU AGGREGATES**

[54] **LIGANDS SELECTIFS POUR AGREGATS DE PROTEINE TAU**

[72] SOHN, DANIEL DUNGAN, SE
[71] KARIN & STEN MORTSTEDT CBD SOLUTIONS AB, SE

[85] 2022-04-14
[86] 2020-10-15 (PCT/EP2020/079139)
[87] (WO2021/074351)
[30] GB (1914989.7) 2019-10-16

[21] **3,154,913**
[13] A1

[51] **Int.Cl. B60K 35/00 (2006.01)**

[25] EN

[54] **DISPLAY SYSTEM**

[54] **SYSTEME D'AFFICHAGE**

[72] BEADMAN, MICHAEL, GB
[72] CRUNDWELL, BEN, GB
[72] MARGETSON, GUY, GB
[71] LIGHTZ LIMITED, GB
[71] MARGETSON, GUY, GB

[85] 2022-04-14
[86] 2020-10-23 (PCT/IB2020/059967)
[87] (WO2021/079327)
[30] GB (1915356.8) 2019-10-23
[30] GB (1916314.6) 2019-11-08
[30] GB (2016784.7) 2020-10-22

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[21] **3,154,914**
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 405/04 (2006.01) C07D 491/048 (2006.01) C07D 491/107 (2006.01) C07D 498/04 (2006.01)**

[25] EN
[54] **SUBSTITUTED TRICYCLIC COMPOUNDS**
[54] **COMPOSES TRICYCLIQUES SUBSTITUES**

[72] SETHI, SACHIN, IN
[72] NAIR, PRATHAP SREEDHARAN, IN
[72] SHUKLA, MANOJKUMAR RAMPRASAD, IN
[72] SINDKHEDKAR, MILIND DATTATRAYA, IN
[72] PALLE, VENKATA P., IN
[72] KAMBOJ, RAJENDER KUMAR, IN
[72] PHUKAN, SAMIRON, IN
[72] PATIL, PRADEEP RANGRAO, IN
[72] KAKADE, GANESH, IN
[72] KHEDKAR, NILESH RAGHUNATH, IN
[72] DUBE, DAGADU, IN
[72] TAMBE, VIKAS SITARAM, IN
[72] BALGUDE, SUDHAKAR MARUTI, IN
[72] WAGH, PRADIP BALU, IN
[71] LUPIN LIMITED, IN
[85] 2022-04-14
[86] 2020-11-28 (PCT/IB2020/061248)
[87] (WO2021/105960)
[30] IN (201921049157) 2019-11-29
[30] IN (202021035414) 2020-08-17

[21] **3,154,915**
[13] A1

[51] **Int.Cl. A61K 31/433 (2006.01) A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 9/48 (2006.01) A61P 3/10 (2006.01) C07D 285/08 (2006.01)**

[25] EN
[54] **NEW FORMULATIONS**
[54] **NOUVELLES PREPARATIONS**

[72] EDLUND, THOMAS, SE
[72] WESTMAN, JACOB, SE
[71] BETAGENON AB, SE
[85] 2022-04-14
[86] 2020-10-16 (PCT/GB2020/052618)
[87] (WO2021/074646)
[30] GB (1915094.5) 2019-10-18

[21] **3,154,917**
[13] A1

[51] **Int.Cl. C01B 3/00 (2006.01) C01B 3/06 (2006.01) C08G 77/12 (2006.01)**

[25] EN
[54] **PROCESS FOR PRODUCING AND REGENERATING HYDROGEN CARRIER COMPOUNDS**
[54] **PROCEDE DE PRODUCTION ET DE REGENERATION DE COMPOSES PORTEURS D'HYDROGENE**

[72] BURCHER, BENJAMIN, FR
[72] LOME, VINCENT, FR
[72] BENOIT, REMY, FR
[71] HYSILABS SAS, FR
[85] 2022-04-14
[86] 2020-10-29 (PCT/EP2020/080468)
[87] (WO2021/084046)
[30] EP (19306415.1) 2019-10-31
[30] EP (20305574.4) 2020-06-02

[21] **3,154,920**
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/4025 (2006.01) A61K 31/453 (2006.01) A61K 31/4709 (2006.01) A61P 25/04 (2006.01)**

[25] EN
[54] **USE OF PHENYLQUINOLINONE DERIVATIVE OR FLAVONOID DERIVATIVE FOR TREATING NEUROPATHIC PAIN**
[54] **UTILISATION DE PHENYLQUINOLINONES ET DE DERIVES DE FLAVONOIDES POUR LE TRAITEMENT DE LA DOULEUR NEUROPATHIQUE**

[72] LOU, JINFANG, CN
[72] ZHANG, FENGMIN, CN
[72] SHENG, RONG, CN
[72] JIN, ZEWU, CN
[71] HANGZHOU BIO-SINCERITY PHARMA-TECH CO., LTD., CN
[85] 2022-04-14
[86] 2019-10-15 (PCT/CN2019/111269)
[87] (WO2021/072642)

[21] **3,154,921**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 15/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C12N 15/13 (2006.01)**

[25] EN
[54] **AMH-COMPETITIVE ANTAGONIST ANTIBODY**
[54] **ANTICORPS ANTAGONISTE COMPETITIF D'AMH**

[72] PROST, JEAN-FRANCOIS, FR
[72] DUBREUIL, OLIVIER, FR
[72] BARRET, JEAN-MARC, FR
[72] DEGOVE, STEPHANE, FR
[71] GAMAMABS PHARMA, FR
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[87] (WO2021/078959)
[30] EP (19306377.3) 2019-10-23

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[25] EN	[25] EN	[25] EN
[54] SUBSTITUTED 4-AMINOISOINDOLINE-1,3-DIONE COMPOUNDS AND SECOND ACTIVE AGENTS FOR COMBINED USE	[54] SEGMENTS FOR ARRANGING ON AND FOR FORMING A DISC BRUSH	[54] HLA CLASS I MOLECULES IN IN VITRO FERTILIZATION AND FURTHER MEDICAL IMPLICATIONS
[54] COMPOSES DE 4-AMINOISOINDOLINE -1,3-DIONE SUBSTITUES ET SECONDS AGENTS ACTIFS A USAGE COMBINE	[54] SEGMENTS POUR AGENCEMENT SUR ET POUR FORMATION D'UNE BROSSE A DISQUE	[54] MOLECULES HLA DE CLASSE I DANS LA FECONDATION IN VITRO ET D'AUTRES IMPLICATIONS MEDICALES
[72] ANTON, MARIA SORAYA CARRANCIO, US	[72] MENKEN, ULRICH, DE	[72] WURFEL, WOLFGANG, DE
[72] BUCHHOLZ, TONIA J., US	[72] WINKLER, JAN, DE	[72] WIRTZ, RALPH MARKUS, DE
[72] CHANG, HENRY, US	[72] SCHRODER, FLORIAN, DE	[72] WINTERHALTER, CHRISTOPH, DE
[72] FILVAROFF, ELLEN, US	[71] WEBER BURSTENSYSTEME GMBH, DE	[72] WURFEL, FRANZISKA, DE
[72] KASIBHATLA, SHAILAJA, US	[85] 2022-04-14	[71] INTELLEXON GMBH, DE
[72] LOPEZ-GIRONA, ANTONIA, US	[86] 2020-10-20 (PCT/EP2020/079478)	[85] 2022-04-14
[72] MOHAN, ADITHI, US	[87] (WO2021/078728)	[86] 2020-10-19 (PCT/EP2020/079347)
[72] NARLA, RAMA KRISHNA, US	[30] EP (19204527.6) 2019-10-22	[87] (WO2021/078680)
[72] POURDEHNAD, MICHAEL, US	[30] EP (20184185.5) 2020-07-06	[30] EP (19205450.0) 2019-10-25
[71] CELGENE CORPORATION, US		
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[86] 2020-10-20 (PCT/US2020/056439)	[51] Int.Cl. A24F 40/30 (2020.01) A24F 40/53 (2020.01) A61M 15/06 (2006.01)	[51] Int.Cl. A24F 40/50 (2020.01)
[87] (WO2021/080955)	[25] EN	[25] EN
[30] US (62/923,945) 2019-10-21	[54] ELECTRONIC AEROSOL PROVISION SYSTEM AND METHOD	[54] SYSTEM AND METHOD OF AEROSOL DELIVERY
	[54] SYSTEME ET PROCEDE DE DISTRIBUTION D'AEROSOL ELECTRONIQUE	[54] SYSTEME ET PROCEDE DE DISTRIBUTION D'AEROSOL
	[72] MOLONEY, PATRICK, GB	[72] MOLONEY, PATRICK, GB
	[72] CHAN, JUSTIN HAN YANG, GB	[71] NICOVENTURES TRADING LIMITED, GB
	[71] NICOVENTURES TRADING LIMITED, GB	[85] 2022-04-14
	[85] 2022-04-14	[86] 2020-09-17 (PCT/GB2020/052247)
	[86] 2020-09-17 (PCT/GB2020/052246)	[87] (WO2021/074579)
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[25] EN

[54] **DEVICE BASED RESPONDER NETWORK ACTIVATION AND VIRTUAL ASSISTANT INTEGRATION**

[54] **ACTIVATION DE RESEAU DE REPONDEURS BASEE SUR UN DISPOSITIF ET INTEGRATION D'ASSISTANT VIRTUEL**

[72] BONGBERG, MICAH R., US

[72] JAFRI, SAMEER, US

[72] BEYER, RORY M., US

[71] AVIVE SOLUTIONS, INC., US

[85] 2022-04-14

[86] 2020-11-20 (PCT/US2020/061482)

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[30] US (62/938,456) 2019-11-21

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[21] **3,154,934**
[13] A1

[51] **Int.Cl. A61F 5/443 (2006.01) A61F 5/448 (2006.01)**

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[54] **SOFT CONVEX OSTOMY APPLIANCE**

[54] **APPAREIL DE STOMIE CONVEXE SOUPLE**

[72] CZAPLEWSKI, GREGORY J., US

[71] HOLLISTER INCORPORATED, US

[85] 2022-04-14

[86] 2020-12-03 (PCT/US2020/062997)

[87] (WO2021/113435)

[30] US (62/945,067) 2019-12-06

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[13] A1

[51] **Int.Cl. A01K 15/00 (2006.01) A01K 15/02 (2006.01) A01K 29/00 (2006.01) A61D 5/00 (2006.01) A61N 1/00 (2006.01) A61N 1/04 (2006.01)**

[25] EN

[54] **TOY / TRAINING TOOL FOR ANIMAL CONTAINMENT ASSEMBLY**

[54] **JOUET/OUTIL D'ENTRAINEMENT POUR ENSEMBLE DE CONFINEMENT D'ANIMAL**

[72] CRAMPTON, ZEL, US

[72] PREHOGAN, JACQUELINE, US

[72] LANGLEBEN, ISAAC, US

[72] BECK, BENJAMIN, US

[72] MCDUFFEE, MICHAEL, US

[72] DONOVAN, RYAN, US

[72] MARSDEN, DOUGLAS, US

[72] ARMSTRONG, COURTNEY, US

[71] DIGGS INC., US

[85] 2022-04-14

[86] 2020-11-20 (PCT/US2020/061505)

[87] (WO2021/102262)

[30] US (62/938,597) 2019-11-21

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[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C12Q 1/6881 (2018.01) G01N 33/68 (2006.01)**

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[54] **HLA-H, HLA-J, HLA-L, HLA-V AND HLA-Y AS THERAPEUTIC AND DIAGNOSTIC TARGETS**

[54] **HLA-H, HLA-J, HLA-L, HLA-V ET HLA-Y EN TANT QUE CIBLES THERAPEUTIQUES ET DIAGNOSTIQUES**

[72] WURFEL, WOLFGANG, DE

[72] WIRTZ, RALPH MARKUS, DE

[72] WINTERHALTER, CHRISTOPH, DE

[72] WURFEL, FRANZISKA, DE

[71] INTELLEXON GMBH, DE

[85] 2022-04-14

[86] 2020-10-19 (PCT/EP2020/079344)

[87] (WO2021/078679)

[30] EP (19205451.8) 2019-10-25

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[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4545 (2006.01) A61K 31/498 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5355 (2006.01) A61K 31/538 (2006.01) A61K 31/5386 (2006.01) A61K 31/541 (2006.01) A61K 31/55 (2006.01) A61K 31/554 (2006.01) A61K 31/675 (2006.01) A61P 35/00 (2006.01) C07D 401/04 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 419/14 (2006.01) C07D 471/04 (2006.01) C07D 487/08 (2006.01) C07D 487/10 (2006.01) C07D 491/08 (2006.01) C07D 491/107 (2006.01) C07F 9/6558 (2006.01)**

[25] EN

[54] **SMALL MOLECULE DEGRADERS OF HELIOS AND METHODS OF USE**

[54] **AGENTS DE DEGRADATION A PETITES MOLECULES D'HELIOS ET PROCEDES D'UTILISATION**

[72] GRAY, NATHANAEL S., US

[72] LIU, HU, US

[72] ZHANG, TINGHU, US

[72] JONES, LYN HOWARD, US

[72] CHE, JIANWEI, US

[71] DANA-FARBER CANCER INSTITUTE, INC., US

[85] 2022-04-14

[86] 2020-10-29 (PCT/US2020/057930)

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[13] A1

[51] **Int.Cl. A01K 1/01 (2006.01)**
[25] EN
[54] **A METHOD AND A CONTROL ARRANGEMENT FOR ADJUSTING A CLEANING SCHEDULE FOR CLEANING SESSIONS OF A SCRAPER ARRANGEMENT**
[54] **PROCEDE ET AGENCEMENT DE COMMANDE POUR REGLER UN PROGRAMME DE NETTOYAGE POUR DES SESSIONS DE NETTOYAGE D'UN AGENCEMENT DE RACLEUR**
[72] BRINK, MAREK, SE
[72] FURDAK, JOZEF, SE
[72] HOFMAN, PIOTR, SE
[72] JAKLIK, BARTLOMIEJ, SE
[72] SLUSARCZYK, BARTLOMIEJ, SE
[71] DELAVAL HOLDING AB, SE
[85] 2022-04-14
[86] 2020-11-24 (PCT/SE2020/051116)
[87] (WO2021/107839)
[30] SE (1951366-2) 2019-11-28

[21] **3,154,945**
[13] A1

[51] **Int.Cl. B65D 5/54 (2006.01)**
[25] EN
[54] **RETAIL READY PACKAGES FOR MULTI-SIDED PRODUCTS**
[54] **EMBALLAGES PRETS A LA VENTE AU DETAIL POUR PRODUITS A COTES MULTIPLES**
[72] COUTURE, DAVID G., US
[71] WESTROCK SHARED SERVICES, LLC, US
[85] 2022-04-14
[86] 2020-10-15 (PCT/US2020/055838)
[87] (WO2021/076799)
[30] US (62/915,264) 2019-10-15

[21] **3,154,946**
[13] A1

[51] **Int.Cl. A61N 5/10 (2006.01)**
[25] EN
[54] **BEAM IRRADIATION SYSTEM AND CONTROL METHOD THEREOF**
[54] **SYSTEME D'IRRADIATION PAR FAISCEAUX ET SON PROCEDE DE COMMANDE**
[72] HUANG, YONGYIN, CN
[72] CHEN, WEILIN, CN
[71] NEUBORON THERAPY SYSTEM LTD., CN
[85] 2022-04-14
[86] 2020-11-02 (PCT/CN2020/125767)
[87] (WO2021/088746)
[30] CN (201911083860.5) 2019-11-07

[21] **3,154,947**
[13] A1

[51] **Int.Cl. A61K 31/695 (2006.01) A61K 45/06 (2006.01) A61L 31/16 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL ORGANOSILANES**
[54] **ORGANOSILANES ANTIMICROBIENS**
[72] ALLRED, GARY, US
[72] LIEBESKIND, LANNY, US
[72] CAST, WILLIAM R., US
[72] HILLIARD, CARL, US
[71] TOPIKOS PHARMACEUTICALS, INC., US
[85] 2022-04-14
[86] 2020-10-19 (PCT/US2020/056392)
[87] (WO2021/077119)
[30] US (62/923,372) 2019-10-18
[30] US (63/014,535) 2020-04-23

[21] **3,154,948**
[13] A1

[51] **Int.Cl. A61N 5/10 (2006.01)**
[25] EN
[54] **RADIATION THERAPY SYSTEM, AND OPERATION PROCEDURE OF POSITIONING DEVICE THEREOF**
[54] **SYSTEME DE RADIOTHERAPIE, ET METHODE DE FONCTIONNEMENT DE DISPOSITIF DE POSITIONNEMENT DUDIT SYSTEME**
[72] CHEN, WEI-LIN, CN
[72] GONG, QIU-PING, CN
[71] NEUBORON THERAPY SYSTEM LTD., CN
[85] 2022-04-14
[86] 2020-09-28 (PCT/CN2020/118385)
[87] (WO2021/082846)
[30] CN (201911034270.3) 2019-10-29

[21] **3,154,949**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **A STABLE EFFERVESCENT CO-PROCESSED EXCIPIENT COMPOSITION AND A PROCESS FOR PREPARING THE SAME**
[54] **COMPOSITION D'EXCIPIENT CO-TRAITE EFFERVESCENT STABLE ET SON PROCEDE DE PREPARATION**
[72] DESAI, MAHESH, US
[72] MCCRIMLISK, ROBERT, US
[72] SCHWING, QUYEN VO, US
[71] ISP INVESTMENTS LLC, US
[85] 2022-04-14
[86] 2020-10-13 (PCT/US2020/055400)
[87] (WO2021/076506)
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[21] **3,154,950**
[13] A1

[51] **Int.Cl. A45B 25/24 (2006.01) A45B 25/28 (2006.01)**
[25] EN
[54] **UMBRELLA CASE**
[54] **ETUI DE PARAPLUIE**
[72] PATEL, SANJAY, GB
[72] GRIMALDI, RACHEL, GB
[71] PATEL, SANJAY, GB
[71] GRIMALDI, RACHEL, GB
[85] 2022-04-14
[86] 2020-09-08 (PCT/GB2020/052151)
[87] (WO2021/074561)
[30] GB (1915160.4) 2019-10-18

[21] **3,154,951**
[13] A1

[51] **Int.Cl. B01D 46/52 (2006.01) B05B 14/43 (2018.01) B01D 46/12 (2022.01)**
[25] EN
[54] **AIR FILTER FOR A PAINTING BOOTH USED FOR SPRAY COATING**
[54] **FILTRE A AIR POUR CABINE DE PEINTURE UTILISEE POUR LE REVETEMENT PAR PULVERISATION**
[72] HAYOUN, PATRICK ALAIN JOSEPH, AE
[72] CARBONARA, MICHEL, CH
[71] UCUBE LAB SA, CH
[85] 2022-04-14
[86] 2020-10-16 (PCT/EP2020/079278)
[87] (WO2021/074426)
[30] LU (LU101440) 2019-10-17

[21] **3,154,952**
[13] A1

[51] **Int.Cl. A01K 5/02 (2006.01)**
[25] EN
[54] **METHOD AND CONTROL CIRCUITRY FOR OPERATING AN AUTONOMOUS FEED ROBOT AT A FEED TABLE IN A LIVESTOCK AREA**
[54] **PROCEDE ET CIRCUITS DE COMMANDE PERMETTANT DE FAIRE FONCTIONNER UN ROBOT D'ALIMENTATION AUTONOME AU NIVEAU D'UNE TABLE D'ALIMENTATION DANS UNE ZONE D'ELEVAGE**
[72] DETRAVERSAY, MAXIME, SE
[72] DREIER, JEAN-JACQUES, SE
[72] KARWACKI, SZYMON, SE
[72] KLAAS, ILKA, SE
[71] DELAVAL HOLDING AB, SE
[85] 2022-04-14
[86] 2020-12-11 (PCT/SE2020/051200)
[87] (WO2021/126052)
[30] SE (1951532-9) 2019-12-20

[21] **3,154,954**
[13] A1

[51] **Int.Cl. B61L 23/04 (2006.01) B61L 25/02 (2006.01)**
[25] EN
[54] **BROKEN RAIL DETECTOR**
[54] **DETECTEUR DE RAIL CASSE**
[72] GIES, PAUL D., CA
[71] ATHENA INDUSTRIAL TECHNOLOGIES INC., CA
[85] 2022-04-14
[86] 2020-10-14 (PCT/CA2020/051375)
[87] (WO2021/072533)
[30] US (62/914,751) 2019-10-14

[21] **3,154,955**
[13] A1

[51] **Int.Cl. E21B 43/117 (2006.01) E21B 47/11 (2012.01)**
[25] EN
[54] **PERFORATING AND TRACER INJECTION SYSTEM FOR OILFIELD APPLICATIONS**
[54] **SYSTEME DE PERFORATION ET D'INJECTION DE TRACEUR POUR APPLICATIONS DE CHAMP PETROLIFERE**
[72] LAGRANGE, TIMOTHY E., CA
[72] CHASTAIN, DAVID, US
[72] GEERTS, SHAUN, US
[72] MCCLANAHAN, JOE, US
[72] BABLITZ, GARY, CA
[71] CORE LABORATORIES LP, US
[85] 2022-04-14
[86] 2020-10-19 (PCT/US2020/056322)
[87] (WO2021/077082)
[30] US (62/923,115) 2019-10-18

[21] **3,154,956**
[13] A1

[51] **Int.Cl. A61K 31/5377 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **SOLID FORMS COMPRISING (S)-2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)IS OINDOLINE-1,3-DIONE AND SALTS THEREOF, AND COMPOSITIONS COMPRISING THE SAME AND THEIR USE**
[54] **FORMES SOLIDES COMPRENANT (S)-2-(2,6-DIOXOPIPERIDIN-3-YL)-4-((2-FLUORO-4-((3-MORPHOLINOAZETIDIN-1-YL)METHYL)BENZYL)AMINO)IS OINDOLINE-1,3-DIONE ET SELS DE CELLES-CI, COMPOSITIONS LES COMPRENANT ET LEUR UTILISATION**
[72] HUANG, LIANFENG, US
[72] WU, WENJU, US
[71] CELGENE CORPORATION, US
[85] 2022-04-14
[86] 2020-10-20 (PCT/US2020/056403)
[87] (WO2021/080931)
[30] US (62/923,972) 2019-10-21

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[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01)**
[25] EN
[54] **STANDALONE HIGH-PRESSURE HEAVIES REMOVAL UNIT FOR LNG PROCESSING**
[54] **UNITE AUTONOME D'ELIMINATION DE PRODUITS LOURDS HAUTE PRESSION POUR TRAITEMENT DE GNL**
[72] CHAN, JINGHUA, US
[72] MA, QI, US
[72] EMBRY, DALE L., US
[72] PRADERIO, ATTILIO J., US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2022-04-14
[86] 2020-10-16 (PCT/US2020/055969)
[87] (WO2021/076881)
[30] US (62/916,753) 2019-10-17

[21] **3,154,958**
[13] A1

[51] **Int.Cl. C04B 7/02 (2006.01)**
[25] EN
[54] **CEMENTITIOUS COMPOSITES VIA CARBON-BASED NANOMATERIALS**
[54] **COMPOSITES CIMENTAIRES PREPARES A PARTIR DE NANOMATERIAUX A BASE DE CARBONE**
[72] SHAHSAVARI, ROUZBEH, US
[72] BHATT, MAHESH, US
[71] C-CRETE TECHNOLOGIES, LLC, US
[85] 2022-04-14
[86] 2020-10-14 (PCT/US2020/055634)
[87] (WO2021/076667)
[30] US (62/914,867) 2019-10-14

[21] **3,154,966**
[13] A1

[51] **Int.Cl. G01N 35/00 (2006.01) G01N 21/27 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING PRESENCE AND/OR CHARACTERISTICS OF TARGET ANALYTES IN A SAMPLE**
[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE LA PRESENCE ET/OU DE CARACTERISTIQUES D'ANALYTES CIBLES DANS UN ECHANTILLON**
[72] DEHGAN, ALEX, US
[72] BUNJE, PAUL, US
[72] HOLMES, HALLIE, US
[72] BAISCH, DAVID, US
[72] FANG, CIFENG, US
[72] FOTOUHI, GARETH, US
[72] WINTERS, MISA, US
[72] KEELY, SAM, US
[72] ZAMFT, BRAD, US
[71] CONSERVATION X LABS, INC., US
[85] 2022-04-14
[86] 2020-10-21 (PCT/US2020/056727)
[87] (WO2021/081136)
[30] US (62/923,637) 2019-10-21

[21] **3,154,969**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07D 495/04 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **MACROMOLECULE-SUPPORTED THIENOAZEPINE COMPOUNDS, AND USES THEREOF**
[54] **COMPOSES DE THIENOAZEPINE SUPPORTES PAR DES MACROMOLECULES ET LEURS UTILISATIONS**
[72] KUDIRKA, ROMAS, US
[72] SAFINA, BRIAN, US
[71] BOLT BIOTHERAPEUTICS, INC., US
[85] 2022-04-14
[86] 2020-10-23 (PCT/US2020/057162)
[87] (WO2021/081402)
[30] US (62/926,324) 2019-10-25

[21] **3,154,970**
[13] A1

[51] **Int.Cl. H01M 4/86 (2006.01) H01M 8/083 (2016.01)**
[25] EN
[54] **NICKEL-BASED CATALYST FOR FUEL CELL ANODE**
[54] **CATALYSEUR A BASE DE NICKEL POUR ANODE DE PILE A COMBUSTIBLE**
[72] BORCHTCHOUKOVA, NINO, IL
[72] WIJSBOOM, YAIR HAIM, IL
[72] FINKELSHTAIN, GENNADI, IL
[72] GABROVSKA, MARGARITA VALENTINOVA, BG
[72] NIKOLOVA, DIMITRINKA ALEKSIEVA, BG
[71] GENCELL LTD., IL
[85] 2022-04-14
[86] 2020-10-15 (PCT/US2020/055738)
[87] (WO2021/076730)
[30] US (62/916,837) 2019-10-18

[21] **3,154,972**
[13] A1

[51] **Int.Cl. G21G 1/02 (2006.01)**
[25] EN
[54] **MODULAR RADIOISOTOPE PRODUCTION CAPSULES AND RELATED METHOD**
[54] **CAPSULES MODULAIRES DE PRODUCTION DE RADIO-ISOTOPES ET PROCEDE ASSOCIE**
[72] HEIBEL, MICHAEL D., US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2022-04-14
[86] 2020-10-14 (PCT/US2020/055640)
[87] (WO2021/076673)
[30] US (62/914,661) 2019-10-14

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[21] **3,154,974**
[13] A1

[51] **Int.Cl. G06F 21/35 (2013.01) H04W 12/02 (2009.01) G06F 21/44 (2013.01) G06F 21/62 (2013.01) G06F 21/78 (2013.01) H04W 12/0431 (2021.01) H04W 12/47 (2021.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DATA ACCESS CONTROL OF SECURE MEMORY USING A SHORT-RANGE TRANSCEIVER**

[54] **SYSTEMES ET PROCEDES DE COMMANDE D'ACCES A DES DONNEES DE MEMOIRE SECURISEE A L'AIDE D'UN EMETTEUR-RECEPTEUR A COURTE PORTEE**

[72] WIEKER, JEFFREY CARLYLE, US
[72] ZEARFOSS, PATRICK, US
[72] JOHNSON, CLAYTON, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-04-14
[86] 2020-10-13 (PCT/US2020/055363)
[87] (WO2021/076488)
[30] US (16/657,415) 2019-10-18

[21] **3,154,975**
[13] A1

[51] **Int.Cl. C08B 37/16 (2006.01) A61K 31/231 (2006.01)**

[25] EN

[54] **CYCLODEXTRIN-BASED GAMMALINOLENIC ACID FORMULATION FOR TREATMENT OF BRAIN CANCER**

[54] **FORMULATION D'ACIDE GAMMA-LINOLENIQUE A BASE DE CYCLODEXTRINE POUR LE TRAITEMENT DU CANCER DU CERVEAU**

[72] PEARSON, DANIEL A., US
[71] SEFACOR INC., US
[85] 2022-04-14
[86] 2020-10-09 (PCT/IB2020/059524)
[87] (WO2021/074760)
[30] US (62/915,841) 2019-10-16

[21] **3,154,977**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) G06N 20/00 (2019.01)**

[25] EN

[54] **EARTH MODELING METHODS USING MACHINE LEARNING**

[54] **PROCEDES DE MODELISATION DE LA TERRE A L'AIDE D'UN APPRENTISSAGE AUTOMATIQUE**

[72] ZHANG, BARRY F., US
[72] DE JESUS, ORLANDO, US
[72] SANSAL, TUNA ALTAY, US
[72] CHEN, DINGDING, US
[72] TIAN, EDWARD, US
[72] UNALDI, MUHLIS, US
[71] QUANTICO ENERGY SOLUTIONS LLC, US
[85] 2022-04-14
[86] 2020-06-19 (PCT/US2020/038607)
[87] (WO2021/211149)
[30] US (16/852,084) 2020-04-17

[21] **3,154,978**
[13] A1

[51] **Int.Cl. F28D 7/02 (2006.01) F28D 7/08 (2006.01) F28D 7/16 (2006.01)**

[25] EN

[54] **A HEAT EXCHANGER COLLECTOR CONFIGURATION**

[54] **CONFIGURATION DE COLLECTEUR D'ECHANGEUR DE CHALEUR**

[72] ERASLAN, HASAN HUSEYIN, TR
[71] GRON ISITMA SOGUTMA LIMITED SIRKETI, TR
[85] 2022-04-14
[86] 2020-11-23 (PCT/TR2020/051147)
[87] (WO2021/076087)

[21] **3,154,982**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 10/04 (2012.01) G06N 3/08 (2006.01)**

[25] EN

[54] **INTERACTIVE MACHINE LEARNING**

[54] **APPRENTISSAGE AUTOMATIQUE INTERACTIF**

[72] AMLEKAR, ISHAN, CA
[72] BISSON-KROL, CHANTAL, CA
[72] LIN, ZHEN, CA
[72] NOURASHRAFEDDIN, SEYEDNASER, CA
[72] OUELLET, SEBASTIEN, CA
[72] SHEN, KEVIN, CA
[71] KINAXIS INC., CA
[85] 2022-04-14
[86] 2020-10-15 (PCT/CA2020/051379)
[87] (3154982)
[30] US (62/915,076) 2019-10-15
[30] US (16/697,620) 2019-11-27
[30] US (16/699,010) 2019-11-28

[21] **3,154,983**
[13] A1

[51] **Int.Cl. C07C 219/12 (2006.01) C07C 233/62 (2006.01)**

[25] EN

[54] **LIPIDOIDS FOR NUCLEIC ACID TRANSFECTION AND USE THEREOF**

[54] **LIPIDOIDES POUR LA TRANSFECTION D'ACIDES NUCLEIQUES ET LEUR UTILISATION**

[72] CIGLER, PETR, CZ
[72] GRANTZ SASKOVA, KLARA, CZ
[72] VANEK, VACLAV, CZ
[72] KRUZIKOVA, ZUZANA, CZ
[72] SEDLAK, FRANTISEK, CZ
[71] USTAV ORGANICKE CHEMIE A BIOCHEMIE AV CR, V.V.I., CZ
[85] 2022-04-14
[86] 2021-07-23 (PCT/CZ2021/050079)
[87] (WO2022/063350)
[30] CZ (PV 2020-529) 2020-09-23

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[21] **3,154,985**
[13] A1

[51] **Int.Cl. H04M 3/42 (2006.01) H04W 4/02 (2018.01) H04W 48/04 (2009.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LIMITING MOBILE DEVICE FUNCTIONALITY IN A GEOGRAPHIC AREA**
[54] **SYSTEME ET PROCEDE PERMETTANT DE LIMITER UNE FONCTIONNALITE DE DISPOSITIF MOBILE DANS UNE ZONE GEOGRAPHIQUE**
[72] MAHAR, STEPHEN NELSON, US
[72] WILLIAMS, DONALD EDWARD, US
[71] CBROS TECHNOLOGIES, LLC, US
[85] 2022-04-14
[86] 2019-10-14 (PCT/US2019/056164)
[87] (WO2020/081474)
[30] US (16/160,175) 2018-10-15

[21] **3,154,988**
[13] A1

[51] **Int.Cl. B61F 5/34 (2006.01)**
[25] EN
[54] **RAILROAD CAR TRUCK DAMPER WEDGE FITTINGS**
[54] **RACCORDS DE COIN D'AMORTISSEUR DE BOGIE DE WAGON DE CHEMIN DE FER**
[72] HEMATIAN, JAMAL, CA
[71] NATIONAL STEEL CAR LIMITED, CA
[85] 2022-04-14
[86] 2020-07-29 (PCT/CA2019/051500)
[87] (3154988)

[21] **3,154,992**
[13] A1

[51] **Int.Cl. F23K 3/14 (2006.01) F24B 13/04 (2006.01)**
[25] EN
[54] **REMOVABLE AUGER ASSEMBLY**
[54] **ENSEMBLE VIS SANS FIN AMOVIBLE**
[72] DEAN, JAY, US
[71] DANSONS US, LLC, US
[85] 2022-04-14
[86] 2020-10-22 (PCT/US2020/056907)
[87] (WO2021/081238)
[30] US (16/660,121) 2019-10-22

[21] **3,154,995**
[13] A1

[51] **Int.Cl. H04W 36/30 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD, COMMUNICATION APPARATUS, DEVICE, AND COMMUNICATION SYSTEM**
[54] **PROCEDE DE COMMUNICATION, APPAREIL, DISPOSITIF, ET SYSTEME**
[72] CHONG, WEIWEI, CN
[72] XIN, YANG, CN
[72] WU, XIAOBO, CN
[71] HUawei TECHNOLOGIES CO., LTD., CN
[85] 2022-04-14
[86] 2020-01-07 (PCT/CN2020/070771)
[87] (WO2021/077630)
[30] CN (PCT/CN2019/112543) 2019-10-22

[21] **3,154,999**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 39/395 (2006.01) A61P 11/06 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **DRY POWDER FORMULATIONS OF THYMIC STROMAL LYMPHOPOIETIN (TSLP)-BINDING ANTIBODIES AND METHODS OF USE THEREOF**
[54] **FORMULATIONS DE POUVRE SECHE D'ANTICORPS SE LIANT A LA LYMPHOPOIETINE STROMALE THYMIQUE (TSLP) ET LEURS PROCEDES D'UTILISATION**
[72] HUNTINGTON, CATHERINE EUGENIE CHAILLAN, GB
[72] HOE, SUSAN, US
[72] MANIKWAR, PRAKASH, US
[72] KOLBECK, ROLAND WILHELM, US
[72] COHEN, EMMA SUZANNE, GB
[72] GHAZVINI, SABA, US
[72] LECHUGA-BALLESTEROS, DAVID, US
[72] HANSEN, KELLISA BETH, US
[72] D'SA, DEXTER JOSEPH, US
[71] MEDIMMUNE LIMITED, GB
[85] 2022-04-14
[86] 2020-10-27 (PCT/EP2020/080201)
[87] (WO2021/083908)
[30] US (62/926,833) 2019-10-28

[21] **3,155,000**
[13] A1

[51] **Int.Cl. G01L 5/101 (2020.01) G01L 5/1627 (2020.01) G01L 5/06 (2006.01) G01L 5/10 (2020.01)**
[25] EN
[54] **INTELLIGENT FIBER ROPE TERMINATION, MODULE, AND NETWORKING TECHNOLOGIES**
[54] **TERMINAISON DE CABLE A FIBRE INTELLIGENTE, MODULE ET TECHNOLOGIES DE MISE EN RESEAU**
[72] CAMPBELL, RICHARD V., US
[71] CAMPBELL, RICHARD V., US
[85] 2022-04-14
[86] 2020-01-07 (PCT/US2020/012492)
[87] (WO2021/076171)
[30] US (16/654,097) 2019-10-16

[21] **3,155,001**
[13] A1

[51] **Int.Cl. F42B 39/30 (2006.01) F42B 3/10 (2006.01)**
[25] EN
[54] **AUTOMATED SYSTEMS AND APPARATUSES FOR STORING, TRANSPORTING, DISPENSING, AND TRACKING INITIATION DEVICE COMPONENTS CONFIGURABLE FOR INITIATING EXPLOSIVE MATERIAL COMPOSITIONS**
[54] **SYSTEMES ET APPAREILS AUTOMATISES POUR STOCKER, TRANSPORTER, DISTRIBUER ET SUIVRE DES COMPOSANTS DE DISPOSITIF D'INITIATION CONFIGURABLES POUR INITIER DES COMPOSITIONS DE MATIERE EXPLOSIV**
[72] SANCHEZ, FRANCISCO, US
[72] CHAFFIN, CHAD, US
[71] ORICA INTERNATIONAL PTE LTD, SG
[85] 2022-04-14
[86] 2020-10-23 (PCT/SG2020/050608)
[87] (WO2021/080513)
[30] US (62/924,719) 2019-10-23

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[21] **3,155,002**
[13] A1

[51] **Int.Cl. C25B 1/00 (2021.01) C25B 1/30 (2006.01)**
[25] EN
[54] **CHEMICAL SOLUTION PRODUCTION**
[54] **PRODUCTION DE SOLUTION CHIMIQUE**
[72] MARCINKOWSKI, STANLEY, US
[72] OWENS, DAVID JR., US
[72] SNAITH, DAVID BRYANT, US
[72] WANG, BOQING, JP
[72] SHIKANAI, ATSUSHI, JP
[71] HCI CLEANING PRODUCTS LLC
D/B/A FORCE OF NATURE, US
[85] 2022-04-14
[86] 2020-05-22 (PCT/US2020/034376)
[87] (WO2021/086446)
[30] US (29/711,570) 2019-10-31
[30] US (16/670,852) 2019-10-31

[21] **3,155,005**
[13] A1

[51] **Int.Cl. B29B 11/08 (2006.01)**
[25] EN
[54] **INJECTION MOLDING MACHINES AND RELATED METHODS FOR PRODUCING PREFORMS**
[54] **MACHINES DE MOULAGE PAR INJECTION ET METHODES ASSOCIEES DE PRODUCTION DE PREFORMES**
[72] SICILIA, ROBERTO, CA
[71] NIIGON MACHINES LTD., CA
[85] 2022-04-14
[86] 2020-10-16 (PCT/CA2020/051384)
[87] (WO2021/072542)
[30] US (62/915,965) 2019-10-16

[21] **3,155,006**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **RESOURCE SELECTION METHOD AND APPARATUS**
[54] **DISPOSITIF ET PROCEDE DE SELECTION DE RESSOURCE**
[72] DONG, LEI, CN
[72] LU, LEI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-04-14
[86] 2019-11-08 (PCT/CN2019/116648)
[87] (WO2021/087963)

[21] **3,155,009**
[13] A1

[51] **Int.Cl. F42B 3/103 (2006.01) F42B 39/30 (2006.01) F42D 1/08 (2006.01)**
[25] EN
[54] **AUTOMATED APPARATUS FOR STORING, TRANSPORTING, DISPENSING AND ASSEMBLING INITIATION DEVICES CONFIGURABLE FOR INITIATING EXPLOSIVE MATERIAL COMPOSITIONS**
[54] **APPAREIL AUTOMATISE POUR STOCKER, TRANSPORTER, DISTRIBUER ET ASSEMBLER DES DISPOSITIFS D'AMORCAGE CONFIGURABLES POUR AMORCER DES COMPOSITIONS DE MATIERE EXPLOSIVE**
[72] SANCHEZ, FRANCISCO, US
[72] MANNEY, TOM, US
[72] CHAFFIN, CHAD, US
[71] ORICA INTERNATIONAL PTE LTD, SG
[85] 2022-04-14
[86] 2020-10-23 (PCT/SG2020/050609)
[87] (WO2021/080514)
[30] US (62/924,716) 2019-10-23

[21] **3,155,011**
[13] A1

[51] **Int.Cl. B63B 21/50 (2006.01) F03D 9/25 (2016.01) F03D 13/25 (2016.01) F03B 13/06 (2006.01) F16L 1/19 (2006.01) H02G 9/12 (2006.01)**
[25] EN
[54] **GENERATION OF ELECTRICAL POWER OFFSHORE**
[54] **GENERATION D'ENERGIE ELECTRIQUE EN MER**
[72] CHANG, PAUL DOUGLAS, NO
[72] KLOSTER, ERNST KRISTEN HELGOY, NO
[71] SUBSEA 7 NORWAY AS, NO
[85] 2022-04-14
[86] 2020-10-22 (PCT/EP2020/079820)
[87] (WO2021/078899)
[30] GB (1915503.5) 2019-10-25

[21] **3,155,013**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 45/06 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **USE OF IMIDAZOPYRIMIDINE OR IMIDAZOTRIAZINE COMPOUND FOR PREVENTION, ALLEVIATION, OR TREATMENT OF DEVELOPMENTAL DISABILITY**
[54] **UTILISATION DE COMPOSE D'IMIDAZOPYRIMIDINE OU D'IMIDAZOTRIAZINE POUR LA PREVENTION, LE SOULAGEMENT OU LE TRAITEMENT D'UN TROUBLE DU DEVELOPPEMENT**
[72] LEE, KI HO, KR
[72] CHO, NAHM RYUNE, KR
[72] JOUNG, CHAN MI, KR
[71] SK BIOPHARMACEUTICALS CO., LTD., KR
[85] 2022-04-14
[86] 2020-10-21 (PCT/KR2020/014400)
[87] (WO2021/080313)
[30] KR (10-2019-0130397) 2019-10-21

[21] **3,155,016**
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01)**
[25] EN
[54] **AAV3B VARIANTS WITH IMPROVED PRODUCTION YIELD AND LIVER TROPISM**
[54] **VARIANTS D'AAV3B PRESENTANT UN RENDEMENT DE PRODUCTION ET UN TROPISME HEPATIQUE AMELIORES**
[72] WILSON, JAMES M., US
[72] WANG, QIANG, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-04-14
[86] 2020-10-20 (PCT/US2020/056511)
[87] (WO2021/080991)
[30] US (62/924,112) 2019-10-21
[30] US (63/025,753) 2020-05-15

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[21] **3,155,018**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING A DISEASE CONDITION**
[54] **SYSTEMES ET PROCEDES POUR DETECTER UNE PATHOLOGIE**
[72] MARTIGNETTI, JOHN, US
[72] REVA, BORIS, US
[72] DOTTINO, PETER, US
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2022-04-14
[86] 2020-10-16 (PCT/US2020/056166)
[87] (WO2021/077026)
[30] US (62/916,103) 2019-10-16

[21] **3,155,023**
[13] A1

[51] **Int.Cl. B60T 8/32 (2006.01) F16D 65/10 (2006.01)**
[25] EN
[54] **WHEEL SENSORS WITHIN VEHICULAR BRAKE ASSEMBLIES**
[54] **CAPTEURS DE ROUE A L'INTERIEUR D'ENSEMBLES FREINS DE VEHICULE**
[72] BOLLINGER, STEVEN, US
[72] CARRISON, MARKUS, US
[72] LIEVORE, SAMUEL, US
[71] DEXTER AXLE COMPANY, LLC, US
[85] 2022-04-14
[86] 2020-01-13 (PCT/US2020/013270)
[87] (WO2021/080634)
[30] US (16/661,727) 2019-10-23

[21] **3,155,024**
[13] A1

[51] **Int.Cl. G06Q 50/18 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR AUDITING, CREATING, STORING AND/OR ISSUING DIGITAL POWERS OF ATTORNEY AND OTHER LEGAL AND/OR RELATED HEALTH DOCUMENTS**
[54] **PROCEDE ET SYSTEME DE VERIFICATION, DE CREATION, DE STOCKAGE ET/OU D'EMISSION DE PROCURATIONS NUMERIQUES ET D'AUTRES DOCUMENTS JURIDIQUES ET/OU DE SANTE CONNEXES**
[72] SPALING, NATHAN, CA
[72] CHEN, HELEN, CA
[72] LAVOIE, KATHLEEN, CA
[72] SWEATMAN, JASMINE, CA
[72] SPALING, MICHAEL, CA
[71] 2715158 ONTARIO LIMITED, CA
[85] 2022-04-14
[86] 2020-10-16 (PCT/CA2020/051396)
[87] (WO2021/072552)
[30] US (62/915,897) 2019-10-16
[30] US (63/048,707) 2020-07-07

[21] **3,155,025**
[13] A1

[51] **Int.Cl. A61M 25/02 (2006.01) A61B 46/10 (2016.01) A61M 39/20 (2006.01)**
[25] EN
[54] **CATHETER COVERING DEVICE**
[54] **DISPOSITIF DE PROTECTION DE CATHETER**
[72] DABEL, PASCAL, US
[71] DABEL, PASCAL, US
[85] 2022-04-14
[86] 2020-02-13 (PCT/US2020/018165)
[87] (WO2021/162695)

[21] **3,155,029**
[13] A1

[51] **Int.Cl. G06Q 50/16 (2012.01) G06Q 10/10 (2012.01) G06Q 30/06 (2012.01) G06Q 30/08 (2012.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **DIGITAL REAL ESTATE TRANSACTION PROCESSING PLATFORM**
[54] **PLATEFORME NUMERIQUE DE TRAITEMENT DE TRANSACTIONS IMMOBILIERES**
[72] LIU, SHUO, US
[72] GUVENILIR, ABBAS ABDULLAH, US
[71] MODUS TECHNOLOGIES, INC., US
[85] 2022-04-14
[86] 2020-10-19 (PCT/US2020/056356)
[87] (WO2021/077099)
[30] US (62/923,226) 2019-10-18

[21] **3,155,030**
[13] A1

[51] **Int.Cl. B22F 3/14 (2006.01) B22F 3/15 (2006.01) B22F 5/00 (2006.01) B23K 20/12 (2006.01) C22C 1/04 (2006.01) C22C 1/05 (2006.01) C22C 26/00 (2006.01) C22C 27/00 (2006.01) C22C 27/04 (2006.01)**
[25] EN
[54] **POLYCRYSTALLINE CUBIC BORON NITRIDE COMPOSITE MATERIAL**
[54] **MATERIAU COMPOSITE DE NITRURE DE BORE CUBIQUE POLYCRISTALLIN**
[72] GHOSH, SANTONU, GB
[72] RODRIGUEZ SUAREZ, TERESA, GB
[72] ANDERSIN, STIG AKE, GB
[71] ELEMENT SIX (UK) LIMITED, GB
[85] 2022-04-14
[86] 2020-11-25 (PCT/EP2020/083340)
[87] (WO2021/110506)
[30] GB (1917907.6) 2019-12-06

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[21] **3,155,031**
[13] A1

[51] **Int.Cl. G06N 5/04 (2006.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **IMPROVED SEARCH ENGINE USING JOINT LEARNING FOR MULTI-LABEL CLASSIFICATION**
[54] **MOTEUR DE RECHERCHE AMELIORE UTILISANT UN APPRENTISSAGE CONJOINT POUR UNE CLASSIFICATION MULTI-ETIQUETTE**
[72] AHMADVAND, ALI, US
[72] KALLUMADI, SURYA, US
[72] JAVED, FAIZAN, US
[71] HOME DEPOT INTERNATIONAL, INC., US
[85] 2022-04-14
[86] 2020-10-15 (PCT/US2020/055736)
[87] (WO2021/076729)
[30] US (62/915,272) 2019-10-15
[30] US (17/070,518) 2020-10-14

[21] **3,155,032**
[13] A1

[51] **Int.Cl. A61G 1/04 (2006.01) A61G 5/10 (2006.01)**
[25] EN
[54] **MOUNTING APPARATUS FOR SECURING EQUIPMENT TO A PATIENT TRANSPORT SYSTEM**
[54] **APPAREIL DE MONTAGE POUR FIXER UN EQUIPEMENT A UN SYSTEME DE TRANSPORT DE PATIENT**
[72] BOUCHARD, CARL, CA
[71] TECHNOLOGIES CGC INC., CA
[85] 2022-04-14
[86] 2020-10-16 (PCT/CA2020/051392)
[87] (WO2021/072549)
[30] US (62/915,806) 2019-10-16

[21] **3,155,033**
[13] A1

[51] **Int.Cl. B05C 17/005 (2006.01)**
[25] EN
[54] **CARTRIDGE FOR A DISPENSING DEVICE**
[54] **CARTOUCHE POUR DISPOSITIF DE DECHARGE PAR PRESSION**
[72] AYRLE, THOMAS, DE
[72] WILLNER, RALF, DE
[72] DONNER, TOBIAS, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-04-14
[86] 2020-12-01 (PCT/EP2020/084105)
[87] (WO2021/115843)
[30] EP (19216070.3) 2019-12-13

[21] **3,155,034**
[13] A1

[51] **Int.Cl. G06N 5/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR INTERPRETING INPUTTED INFORMATION**
[54] **PROCEDE ET SYSTEME D'INTERPRETATION D'INFORMATIONS ENTREES**
[72] QUATRO, FRANK, US
[71] QUATRO CONSULTING LLC, US
[85] 2022-04-14
[86] 2019-10-15 (PCT/US2019/000053)
[87] (WO2021/076089)

[21] **3,155,035**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) F25D 3/10 (2006.01) F25D 25/00 (2006.01) F25D 29/00 (2006.01) G06K 7/10 (2006.01) H01Q 21/00 (2006.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **APPARATUS TO FACILITATE TRANSFER OF BIOLOGICAL SPECIMENS STORED AT CRYOGENIC CONDITIONS**
[54] **APPAREIL POUR FACILITER LE TRANSFERT D'ECHANTILLONS BIOLOGIQUES STOCKES DANS DES CONDITIONS CRYOGENIQUES**
[72] BLAIR, WILLIAM ALAN, US
[72] SHARP, TIMOTHY ALAN, US
[72] GUPTA, AMIT, US
[72] GO, KATHRYN JOSPEHINE, US
[72] GARBARINI, WILLIAM NICHOLAS, US
[71] TMRW LIFE SCIENCES, INC., US
[85] 2022-04-14
[86] 2020-10-28 (PCT/US2020/057764)
[87] (WO2021/086983)
[30] US (62/927,566) 2019-10-29

[21] **3,155,037**
[13] A1

[51] **Int.Cl. B05B 11/00 (2006.01) B65B 3/16 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A CARTRIDGE AND CARTRIDGE**
[54] **PROCEDE DE PRODUCTION D'UNE CARTOUCHE ET CARTOUCHE**
[72] WILLNER, RALF, DE
[72] AYRLE, THOMAS, DE
[72] DONNER, TOBIAS, DE
[72] TAPOV, TIHOMIR, BG
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-04-14
[86] 2020-12-01 (PCT/EP2020/084107)
[87] (WO2021/115844)
[30] EP (19216102.4) 2019-12-13

[21] **3,155,038**
[13] A1

[51] **Int.Cl. H01M 8/0202 (2016.01) H01M 8/10 (2016.01)**
[25] EN
[54] **FUEL CELL**
[54] **PILE A COMBUSTIBLE**
[72] JIN, KE, CN
[71] FTXT ENERGY TECHNOLOGY CO., LTD., CN
[85] 2022-04-14
[86] 2019-10-16 (PCT/CN2019/111465)
[87] (WO2021/072676)

[21] **3,155,039**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01)**
[25] EN
[54] **CRYOGENIC STORAGE SYSTEM WITH SENSORS TO MEASURE ONE OR MORE PARAMETERS THEREWITHIN**
[54] **SYSTEME DE STOCKAGE CRYOGENIQUE AVEC CAPTEURS POUR MESURER UN OU PLUSIEURS PARAMETRES A L'INTERIEUR DE CELUI-CI**
[72] GUPTA, AMIT, US
[72] DESANNO, ROBERT, US
[72] MURRAY, ALAN LEROY, US
[71] TMRW LIFE SCIENCES, INC., US
[85] 2022-04-14
[86] 2020-10-28 (PCT/US2020/057779)
[87] (WO2022/066192)
[30] US (63/082,640) 2020-09-24

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[21] **3,155,040**
[13] A1

[51] **Int.Cl. F17C 7/00 (2006.01)**
[25] EN
[54] **HIGH PRESSURE GAS SUPPLY SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ALIMENTATION EN GAZ HAUTE TENSION**
[72] PINSON, MICHAEL F., US
[72] WRIGHT, CHARLES CUMMINGS, US
[71] WRIGHT BROTHERS GLOBAL GAS, LLC, US
[85] 2022-04-14
[86] 2021-03-04 (PCT/US2021/020819)
[87] (WO2021/178633)
[30] US (16/808,644) 2020-03-04

[21] **3,155,041**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LOW-RATE HIGH-RATE COUPLED ACQUISITION AND TRACKING OF HIGH SYMBOL RATE IN ROUTES**
[54] **SYSTEME ET PROCEDE D'ACQUISITION ET DE POURSUITE COUPLEES BAS DEBIT/HAUT DEBIT DE VOIES ENTRANTES A HAUT DEBIT DE SYMBOLES**
[72] HANTZ, DANIEL CHRISTOPHER, US
[72] JOSE, JOYAL, US
[71] HUGHES NETWORK SYSTEMS LLC, US
[85] 2022-04-14
[86] 2020-10-16 (PCT/US2020/055918)
[87] (WO2021/076848)
[30] US (16/657,949) 2019-10-18

[21] **3,155,042**
[13] A1

[51] **Int.Cl. A01N 25/12 (2006.01) A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 9/22 (2006.01) A61K 9/24 (2006.01)**
[25] EN
[54] **A DISPERSIBLE EXTENDED RELEASE COMPOSITION, AND A PROCESS FOR PREPARING THE SAME**
[54] **COMPOSITION A LIBERATION PROLONGEE DISPERSIBLE ET SON PROCEDE DE PREPARATION**
[72] DURIG, THOMAS, US
[72] KARAN, KAPISH, US
[72] MCCRIMLISK, ROBERT, US
[71] HERCULES LLC, US
[85] 2022-04-14
[86] 2020-10-16 (PCT/US2020/056014)
[87] (WO2021/076910)
[30] US (62/916,387) 2019-10-17

[21] **3,155,043**
[13] A1

[51] **Int.Cl. B60P 1/04 (2006.01) B60P 1/34 (2006.01) B62D 33/027 (2006.01) B62D 33/08 (2006.01) B65F 3/26 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONNECTING AN ACTUATOR BETWEEN A DUMP BODY AND A CHASSIS OF A TRUCK, AND HINGE ASSEMBLY FOR PIVOTALLY CONNECTING A DUMP BODY TO A CHASSIS OF A TRUCK**
[54] **SYSTEMES ET PROCEDES POUR RACCORDER UN ACTIONNEUR ENTRE UN CORPS DE BENNE ET UN CHASSIS D'UN CAMION, ET ENSEMBLE CHARNIERE POUR RACCORDER DE FACON PIVOTANTE UN CORPS DE BENNE A UN CHASSIS D'UN CAMIO**
[72] LEMAIRE, BENOIT, CA
[72] LEIB, STEFANE, CA
[72] GIROUX-BERNIER, DOMINIC, CA
[71] INDUSTRIES FABKOR INC., CA
[85] 2022-04-14
[86] 2021-01-27 (PCT/IB2020/060004)
[87] (3155043)
[30] US (62/926,187) 2019-10-25

[21] **3,155,044**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) A61B 5/145 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING A DISEASE CONDITION**
[54] **SYSTEMES ET PROCEDES POUR DETECTER UNE PATHOLOGIE**
[72] MARTIGNETTI, JOHN, US
[72] DOTTINO, PETER, US
[72] REVA, BORIS, US
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2022-04-14
[86] 2020-10-16 (PCT/US2020/056170)
[87] (WO2021/077029)
[30] US (62/916,103) 2019-10-16

[21] **3,155,045**
[13] A1

[51] **Int.Cl. B65D 81/32 (2006.01) B65D 1/32 (2006.01) B65D 35/22 (2006.01) B65D 47/20 (2006.01)**
[25] EN
[54] **DEVICE FOR SELECTIVELY STORING AND MIXING FIRST AND SECOND LIQUIDS**
[54] **DISPOSITIF POUR STOCKER ET MELANGER SELECTIVEMENT DES PREMIER ET SECOND LIQUIDES**
[72] SYBROWSKY, JOSHUA B., US
[71] CREATIVE COSMETIC CONCEPTS, LLC, US
[85] 2022-04-14
[86] 2019-10-16 (PCT/US2019/056578)
[87] (WO2021/076127)

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[21] **3,155,046**
[13] A1

[51] **Int.Cl. A61F 13/02 (2006.01) A61F 13/00 (2006.01) A61M 1/00 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **NEGATIVE PRESSURE WOUND THERAPY (NPWT) BANDAGE**

[54] **BANDAGE POUR THERAPIE DE PLAIE PAR PRESSION NEGATIVE (NPWT)**

[72] CORNHILL, JOHN FREDERICK, US

[72] VAN DER LEEST, MACHIEL, FR

[72] CORWIN, RUSSELL, US

[71] GUARD MEDICAL SAS, FR

[85] 2022-04-14

[86] 2020-10-22 (PCT/US2020/056871)

[87] (WO2021/081210)

[30] US (62/924,386) 2019-10-22

[30] US (62/924,290) 2019-10-22

[30] US (62/924,432) 2019-10-22

[30] US (62/992,667) 2020-03-20

[30] US (63/081,690) 2020-09-22

[21] **3,155,047**
[13] A1

[51] **Int.Cl. A47C 27/05 (2006.01)**

[25] EN

[54] **SPRING MODULE AND SPRING CUSHION FOR FURNITURE**

[54] **MODULE DE RESSORT ET COUSSIN DE RESSORT POUR MEUBLES**

[72] LENG, LUHAO, CN

[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN

[85] 2022-04-14

[86] 2020-10-16 (PCT/CN2020/121418)

[87] (WO2021/073598)

[30] CN (201910990436.2) 2019-10-17

[30] CN (202011104573.0) 2020-10-15

[21] **3,155,048**
[13] A1

[51] **Int.Cl. H04Q 5/22 (2006.01)**

[25] EN

[54] **FILTERING CROSS READS AMONG RADIO FREQUENCY IDENTIFICATION (RFID) ENABLED READERS AND SYSTEMS AND METHODS FOR USE THEREOF**

[54] **FILTRAGE DE LECTURES CROISEES PARMIS DES LECTEURS ACTIVES PAR IDENTIFICATION PAR RADIOFREQUENCE (RFID) ET SYSTEMES ET PROCEDES D'UTILISATION DE CEUX-CI**

[72] LEITERMANN, RICHARD EUGENE, US

[72] KOEPEL, BRENT EVERETT, US

[71] WAVEMARK, INC., US

[85] 2022-04-14

[86] 2020-11-16 (PCT/US2020/060686)

[87] (WO2021/097408)

[30] US (62/936,114) 2019-11-15

[30] US (17/097,968) 2020-11-13

[21] **3,155,049**
[13] A1

[51] **Int.Cl. A47C 27/05 (2006.01)**

[25] EN

[54] **SPRING MODULE AND SPRING CUSHION FOR FURNITURE**

[54] **MODULE DE RESSORT ET COUSSIN DE RESSORT POUR MEUBLES**

[72] LENG, LUHAO, CN

[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN

[85] 2022-04-14

[86] 2020-10-16 (PCT/CN2020/121424)

[87] (WO2021/073601)

[30] CN (201910990436.2) 2019-10-17

[30] CN (202011105732.9) 2020-10-15

[21] **3,155,050**
[13] A1

[51] **Int.Cl. A47C 27/05 (2006.01)**

[25] EN

[54] **SPRING MODULE AND SPRING CUSHION FOR FURNITURE**

[54] **MODULE DE RESSORT ET COUSSIN DE RESSORT POUR MEUBLES**

[72] LENG, LUHAO, CN

[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN

[85] 2022-04-14

[86] 2020-10-16 (PCT/CN2020/121407)

[87] (WO2021/073597)

[30] CN (201910990436.2) 2019-10-17

[30] CN (202011105910.8) 2020-10-15

[21] **3,155,051**
[13] A1

[51] **Int.Cl. A47C 27/05 (2006.01)**

[25] EN

[54] **SPRING MODULE AND SPRING CUSHION FOR FURNITURE**

[54] **MODULE DE RESSORT ET COUSSIN DE RESSORT POUR MEUBLES**

[72] LENG, LUHAO, CN

[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN

[85] 2022-04-14

[86] 2020-10-16 (PCT/CN2020/121385)

[87] (WO2021/073590)

[30] CN (201910990436.2) 2019-10-17

[30] CN (202011104641.3) 2020-10-15

[21] **3,155,052**
[13] A1

[51] **Int.Cl. A47C 27/05 (2006.01)**

[25] EN

[54] **SPRING MODULE AND SPRING CUSHION FOR FURNITURE**

[54] **MODULE DE RESSORT ET COUSSIN DE RESSORT POUR MEUBLES**

[72] LENG, LUHAO, CN

[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN

[85] 2022-04-14

[86] 2020-10-16 (PCT/CN2020/121384)

[87] (WO2021/073589)

[30] CN (201910990436.2) 2019-10-17

[30] CN (202011105707.0) 2020-10-15

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[21] **3,155,053**
[13] A1

[51] **Int.Cl. A47C 27/06 (2006.01) A47C 27/05 (2006.01) A47C 31/12 (2006.01)**
[25] EN
[54] **SPRING MODULE AND SPRING CUSHION FOR FURNITURE**
[54] **MODULE DE RESSORT ET COUSSIN DE RESSORT POUR MEUBLES**
[72] LENG, LUHAO, CN
[71] NEW-TEC INTEGRATION (XIAMEN) CO., LTD., CN
[85] 2022-04-14
[86] 2020-10-16 (PCT/CN2020/121404)
[87] (WO2021/073595)
[30] CN (201910990436.2) 2019-10-17
[30] CN (202011104739.9) 2020-10-15

[21] **3,155,054**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**
[25] EN
[54] **MARKETING ENGINE BASED ON TRAITS AND CHARACTERISTICS OF PROSPECTIVE CONSUMERS**
[54] **MOTEUR DE COMMERCIALISATION BASE SUR DES TRAITS ET DES CARACTERISTIQUES DE CONSOMMATEURS POTENTIELS**
[72] RENAUD, PHIL, CA
[71] AFFINIO INC., CA
[85] 2022-04-14
[86] 2019-12-24 (PCT/IB2019/061346)
[87] (WO2020/136586)
[30] US (62/784,593) 2018-12-24

[21] **3,155,055**
[13] A1

[51] **Int.Cl. H04L 12/423 (2006.01)**
[25] EN
[54] **SAFE TEST ARRANGEMENT CONFIGURATION D'ESSAI SECURITAIRE**
[72] NUSSBAUMER, ROLAND, AT
[72] BLOCHER, THOMAS, AT
[72] KUKUK, MATTHIAS, AT
[71] OMICRON ELECTRONICS GMBH, AT
[85] 2022-04-14
[86] 2020-10-16 (PCT/EP2020/079201)
[87] (WO2021/074373)
[30] AT (A50898/2019) 2019-10-18

[21] **3,155,056**
[13] A1

[51] **Int.Cl. A45D 34/04 (2006.01)**
[25] EN
[54] **COSMETIC DOSING SYSTEM**
[54] **SYSTEME DE DOSAGE COSMETIQUE**
[72] JACOB, CHRISTOPHE, FR
[72] BOUIX, HERVE F., US
[71] ELC MANAGEMENT LLC, US
[85] 2022-04-14
[86] 2020-10-17 (PCT/US2020/056192)
[87] (WO2021/077047)
[30] US (16/656,052) 2019-10-17

[21] **3,155,057**
[13] A1

[51] **Int.Cl. B65D 5/66 (2006.01)**
[25] EN
[54] **A CUP, A BLANK FOR A CUP AND A METHOD OF FORMING A CUP**
[54] **GOBELET, EBAUCHE DE GOBELET ET PROCEDE DE FORMATION D'UN GOBELET**
[72] DROUET, CYRIL MICHEL, CN
[71] CHOOSE PLANET A LIMITED, CN
[85] 2022-04-15
[86] 2020-10-16 (PCT/CN2020/121419)
[87] (WO2021/073599)
[30] HK (19131129.9) 2019-10-17

[21] **3,155,058**
[13] A1

[51] **Int.Cl. B25H 3/00 (2006.01) B25H 3/04 (2006.01) B65D 85/24 (2006.01)**
[25] EN
[54] **TOOL SET WITH INTERSPERSED DUAL STANDARD ELEMENTS**
[54] **ENSEMBLE D'OUTILS AVEC DOUBLES ELEMENTS STANDARD INTERCALES**
[72] LANGLOTZ, BENNET K., US
[71] LANGLOTZ, BENNET K., US
[85] 2022-04-15
[86] 2020-01-22 (PCT/US2020/014583)
[87] (WO2021/076172)
[30] US (62/915,694) 2019-10-16

[21] **3,155,072**
[13] A1

[51] **Int.Cl. A61B 18/00 (2006.01)**
[25] EN
[54] **MEDICAL GUIDEWIRE ASSEMBLY AND/OR ELECTRICAL CONNECTOR**
[54] **ENSEMBLE FIL-GUIDE MEDICAL ET/OU CONNEXTEUR ELECTRIQUE**
[72] URBANSKI, JOHN PAUL, CA
[72] DAVIES, GARETH, CA
[71] BAYLIS MEDICAL COMPANY INC., CA
[85] 2022-04-18
[86] 2020-10-15 (PCT/IB2020/059729)
[87] (WO2021/074860)
[30] US (62/923,031) 2019-10-18

[21] **3,155,073**
[13] A1

[51] **Int.Cl. C12Q 1/6881 (2018.01) C12Q 1/6883 (2018.01) C12Q 1/6886 (2018.01) C40B 40/06 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MEASURING CELL STATES**
[54] **PROCEDES ET SYSTEMES POUR MESURER DES ETATS CELLULAIRES**
[72] CHAUDHURI, AADEL, US
[72] NEWMAN, AARON, US
[72] ALAHI, IRFAN, US
[71] WASHINGTON UNIVERSITY, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2022-04-18
[86] 2020-10-18 (PCT/US2020/056218)
[87] (WO2021/077063)
[30] US (62/916,961) 2019-10-18

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[21] **3,155,074**
[13] A1

[51] **Int.Cl. A61K 31/047 (2006.01)**
[25] EN
[54] **LIPID AND LIPID NANOPARTICLE FORMULATION FOR DRUG DELIVERY**
[54] **FORMULATION DE LIPIDES ET DE NANOPARTICULES LIPIDIQUES POUR L'ADMINISTRATION DE MEDICAMENTS**
[72] MITCHELL, MICHAEL, US
[72] BILLINGSLEY, MARGARET, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-04-18
[86] 2020-10-19 (PCT/US2020/056252)
[87] (WO2021/077066)
[30] US (62/923,258) 2019-10-18

[21] **3,155,075**
[13] A1

[51] **Int.Cl. A61K 31/047 (2006.01)**
[25] EN
[54] **LIPID NANOPARTICLES AND FORMULATIONS THEREOF FOR CAR MRNA DELIVERY**
[54] **NANOPARTICULES LIPIDIQUES ET FORMULATIONS DE CELLES-CI POUR L'ADMINISTRATION D'ARNM DE CAR**
[72] MITCHELL, MICHAEL, US
[72] BILLINGSLEY, MARGARET, US
[72] SINGH, NATHAN, US
[72] JUNE, CARL H., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-04-18
[86] 2020-10-19 (PCT/US2020/056255)
[87] (WO2021/077067)
[30] US (62/916,942) 2019-10-18

[21] **3,155,076**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/4439 (2006.01) A61P 1/04 (2006.01) A61P 25/20 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATION**
[54] **FORMULATION PHARMACEUTIQUE**
[72] KRSTESKA, LJILJANA, MK
[72] KAZANDZIEVSKA, ELENA, MK
[72] WILLIS, ANDREW, GB
[71] ALKALOID AD SKOPJE, MK
[85] 2022-04-18
[86] 2020-04-17 (PCT/EP2020/060869)
[87] (WO2020/224936)
[30] GB (1906473.2) 2019-05-08

[21] **3,155,077**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07D 495/04 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **THIENOAZEPINE IMMUNOCONJUGATES, AND USES THEREOF**
[54] **IMMUNOCONJUGUES DE THIENOAZEPINE ET LEURS UTILISATIONS**
[72] KUDIRKA, ROMAS, US
[72] SAFINA, BRIAN, US
[71] BOLT BIOTHERAPEUTICS, INC., US
[85] 2022-04-18
[86] 2020-10-23 (PCT/US2020/057167)
[87] (WO2021/081407)
[30] US (62/926,333) 2019-10-25
[30] US (62/984,184) 2020-03-02

[21] **3,155,078**
[13] A1

[51] **Int.Cl. C08L 5/08 (2006.01) C09D 105/08 (2006.01)**
[25] EN
[54] **SILICONE OIL TERPOLYMER FOR USE IN INTRAOCULAR LENS DEVICES**
[54] **HUILE TERPOLYMERE DE SILICONE DESTINEE A ETRE UTILISE DANS DES DISPOSITIFS LENTILLES INTRAOCULAIRES**
[72] SILVESTRINI, THOMAS A., US
[72] YACOUB, KEVIN, US
[71] LENS GEN, INC., US
[85] 2022-04-18
[86] 2020-11-05 (PCT/US2020/059177)
[87] (WO2021/092222)
[30] US (62/932,033) 2019-11-07

[21] **3,155,079**
[13] A1

[51] **Int.Cl. D01D 1/02 (2006.01) C08L 1/02 (2006.01) D01F 2/02 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING A CELLULOSIC FUNCTIONAL FIBER WITH HIGH ION EXCHANGE CAPACITY, CELLULOSIC FUNCTIONAL FIBER, TEXTILE PRODUCT COMPRISING CELLULOSIC FUNCTIONAL FIBER, AND GARMENT OR PIECE OF FURNITURE COMPRISING SAID CELLULOSIC FUNCTIONAL FIBER OR TEXTILE PRODUCT**
[54] **PROCEDE DE PRODUCTION D'UNE FIBRE FONCTIONNELLE CELLULOSIQUE A CAPACITE D'ECHANGE IONIQUE ELEVEE, FIBRE FONCTIONNELLE CELLULOSIQUE, PRODUIT TEXTILE COMPRENANT UNE FIBRE FONCTIONNELLE CELLULOSIQUE, ET VETEMENT OU MEUBLE COMPRENANT LADITE FIBRE FONCTIONNELLE CELLULOSIQUE OU LEDIT PRODUIT TEXTIL**
[72] KOLBE, AXEL, DE
[71] SMARTFIBER AG, DE
[85] 2022-04-18
[86] 2020-10-15 (PCT/EP2020/079089)
[87] (WO2021/074319)
[30] DE (10 2019 007 165.4) 2019-10-15
[30] EP (PCT/EP2020/060630) 2020-04-15

[21] **3,155,080**
[13] A1

[51] **Int.Cl. E04G 5/00 (2006.01) E04G 1/02 (2006.01) E04G 5/02 (2006.01) E04G 5/04 (2006.01) E04G 7/02 (2006.01) G01R 17/08 (2006.01) G08B 21/02 (2006.01)**
[25] EN
[54] **A SAFETY SYSTEM**
[54] **SYSTEME DE SECURITE**
[72] MEKURI, GLEN LAAI, AU
[72] BULMER, CHRIS, AU
[72] PARATUA, MAFIATA, AU
[71] GREENWICH INNOVATION, AU
[85] 2022-04-18
[86] 2020-10-16 (PCT/AU2020/051114)
[87] (WO2021/072499)
[30] AU (2019903918) 2019-10-17

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[21] **3,155,081**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTO-INOCULATION IN SEED TRAIN AND PRODUCTION PROCESSES**

[54] **SYSTEMES ET PROCEDES D'AUTO-INOCULATION DANS UN TRAIN DE SEMENCES ET PROCEDES DE PRODUCTION**

[72] CZETERKO, MARK, US
[72] STARLING, ALESSANDRA, US
[72] ORR, COLIN, US
[72] PIERCE, WILLIAM SETH, US
[72] CONWAY, MATTHEW, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-04-18
[86] 2020-10-23 (PCT/US2020/056960)
[87] (WO2021/081262)
[30] US (62/925,940) 2019-10-25

[21] **3,155,082**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/575 (2006.01)**
[25] EN
[54] **NEONATAL FC RECEPTOR BINDING AFFIMERS**

[54] **AFFIMER SE LIANT AU RECEPTEUR FC NEONATAL**

[72] KIM, YEONCHUL, KR
[72] LEE, JAEHYUNG, KR
[72] JUNG, SAEM, KR
[72] LEE, JOON HEE, KR
[72] PARK, GYEONG HYAE, KR
[72] NA, KYUBONG, KR
[72] MATTHEW, VINCENT, US
[72] AMRIK, BASRAN, GB
[72] EMMA, STANLEY, GB
[72] EMMA, JENKINS, GB
[72] ESTELLE, ADAM, GB
[71] LG CHEM, LTD., KR
[85] 2022-04-18
[86] 2020-10-16 (PCT/KR2020/014207)
[87] (WO2021/075930)
[30] US (62/915,790) 2019-10-16

[21] **3,155,083**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/10 (2012.01) G06Q 50/10 (2012.01) G06Q 50/16 (2012.01)**
[25] EN
[54] **SELF-ORGANIZING DATA CAPTURE, ANALYSIS, AND COLLABORATION SYSTEM**

[54] **SYSTEME AUTO-ORGANISE DE CAPTURE DE DONNEES, D'ANALYSE ET DE COLLABORATION**

[72] MILLER, JAMES M., US
[72] SALIBA, NABIH, US
[72] BHALOTIA, RAVI, US
[71] PIVOT INDUSTRIES LIMITED, US
[85] 2022-04-18
[86] 2020-10-15 (PCT/US2020/055846)
[87] (WO2021/076807)
[30] US (62/916,436) 2019-10-17
[30] US (63/066,002) 2020-08-14
[30] US (63/084,282) 2020-09-28
[30] US (17/071,772) 2020-10-15

[21] **3,155,084**
[13] A1

[51] **Int.Cl. A61K 9/51 (2006.01) A61K 31/704 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR CANCER TREATMENT USING NANOPARTICLES CONJUGATED WITH MULTIPLE LIGANDS FOR BINDING RECEPTORS ON NK CELLS**

[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DU CANCER UTILISANT DES NANOPARTICULES CONJUGUEES A DE MULTIPLES LIGANDS POUR SE LIER A DES RECEPTEURS SUR DES CELLULES TUEUSES NATURELLE**

[72] WANG, ANDREW, US
[72] AU, KIN MAN, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2022-04-18
[86] 2020-10-15 (PCT/US2020/055818)
[87] (WO2021/076780)
[30] US (62/923,060) 2019-10-18

[21] **3,155,085**
[13] A1

[51] **Int.Cl. G06N 10/00 (2022.01)**
[25] EN
[54] **HYBRID QUANTUM-CLASSICAL COMPUTER SYSTEM FOR PARAMETER-EFFICIENT CIRCUIT TRAINING**

[54] **SYSTEME INFORMATIQUE CLASSIQUE QUANTIQUE HYBRIDE POUR FORMATION DE CIRCUIT A PARAMETRES OPTIMISES**

[72] SIM, SUKIN, US
[71] ZAPATA COMPUTING, INC., US
[85] 2022-04-18
[86] 2020-10-30 (PCT/US2020/058119)
[87] (WO2021/087206)
[30] US (62/927,826) 2019-10-30

[21] **3,155,102**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MACHINE LEARNING INTERPRETABILITY**

[54] **SYSTEMES ET PROCEDES D'INTERPRETABILITE D'APPRENTISSAGE MACHINE**

[72] SOLEIMANI, BEHROUZ HAJI, CA
[72] PAGOTTA, ANDREA, CA
[72] NOURASHRAFEDDIN, SEYEDNASER, CA
[72] BISSON-KROL, CHANTAL, CA
[71] KINAXIS INC., CA
[85] 2022-04-19
[86] 2020-10-19 (PCT/CA2020/051400)
[87] (WO2021/072556)
[30] US (62/923,508) 2019-10-19

[21] **3,155,105**
[13] A1

[51] **Int.Cl. E04H 17/14 (2006.01) E04H 17/20 (2006.01) E04H 17/22 (2006.01)**
[25] EN
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[54] **CLOTURE DE SECURITE**

[72] LUCZYCKI, GEOFF T., US
[72] BURT, KEVIN T., US
[71] FORTRESS IRON, LP, US
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[86] 2020-10-15 (PCT/US2020/055684)
[87] (WO2021/076699)
[30] US (16/654,493) 2019-10-16

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[21] **3,155,114**
[13] A1

[51] **Int.Cl. C07D 309/04 (2006.01) A61K 31/10 (2006.01) C07C 317/14 (2006.01) C07D 205/04 (2006.01) C07D 207/06 (2006.01) C07D 211/46 (2006.01) C07D 275/02 (2006.01) C07D 295/08 (2006.01) C07D 307/10 (2006.01) C07D 309/06 (2006.01) C07D 309/08 (2006.01) C07D 309/10 (2006.01) C07D 309/12 (2006.01) C07D 319/12 (2006.01) C07D 401/04 (2006.01)**

[25] EN
[54] **SSAO INHIBITORS AND USE THEREOF**
[54] **INHIBITEURS DE SSAO ET LEUR UTILISATION**
[72] REN, ZAIFANG, CN
[72] SUN, XUEFENG, CN
[72] XU, QING, CN
[71] ECCOGENE (SHANGHAI) CO., LTD., CN
[85] 2022-04-19
[86] 2020-10-28 (PCT/CN2020/124381)
[87] (WO2021/083209)
[30] CN (PCT/CN2019/113957) 2019-10-29
[30] CN (PCT/CN2020/087022) 2020-04-26

[21] **3,155,118**
[13] A1

[51] **Int.Cl. C09D 103/02 (2006.01) C08L 1/28 (2006.01) C08L 3/02 (2006.01) C09D 101/28 (2006.01) D21H 19/12 (2006.01) D21H 19/82 (2006.01)**

[25] EN
[54] **FLOUROCARBON FREE AND BIOBASED OIL AND WATER BARRIER MATERIALS COMPRISING POLYELECTROLYTE COMPLEXES**
[54] **MATERIAUX FORMANT BARRIERE A L'HUILE ET A L'EAU A BASE BIOLOGIQUE ET SANS FLUOROCARBONE COMPRENANT DES COMPLEXES POLYELECTROLYTIQUES**
[72] AYDIN, JUHANES, SE
[72] WENNMAN, MARIA, SE
[71] ORGANOCCLICK AB, SE
[85] 2022-04-19
[86] 2020-10-20 (PCT/SE2020/051003)
[87] (WO2021/086247)
[30] SE (1951246-6) 2019-10-31

[21] **3,155,125**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**

[25] EN
[54] **COMPOSITIONS AND METHODS FOR MINIMIZING PROTEIN LOSS AT LOW PROTEIN CONCENTRATIONS**
[54] **COMPOSITIONS ET PROCEDES POUR MINIMISER LA PERTE DE PROTEINES A DE FAIBLES CONCENTRATIONS DE PROTEINES**
[72] ZHU, CHEN, US
[72] GREENE, DANIEL GERARD, US
[72] HAO, QI, US
[72] KANAPURAM, SEKHAR, US
[72] TREUHEIT, MICHAEL JOHN, US
[71] AMGEN INC., US
[85] 2022-04-19
[86] 2020-10-23 (PCT/US2020/057065)
[87] (WO2021/081326)
[30] US (62/926,089) 2019-10-25

[21] **3,155,136**
[13] A1

[51] **Int.Cl. B23P 6/00 (2006.01) F03D 80/50 (2016.01) F03D 80/70 (2016.01) F16C 35/02 (2006.01) F16C 35/077 (2006.01)**

[25] EN
[54] **METHOD OF REPAIRING A BEARING BORE AND BORE INSERT FOR REPAIRING A BEARING BORE**
[54] **PROCEDE DE REPARATION D'UN TROU DE PALIER ET INSERT DE TROU DESTINE A LA REPARATION D'UN TROU DE PALIER**
[72] ANDERSEN, MOGENS E., DK
[72] FERNANDEZ GARCIA, BORJA, ES
[71] VESTAS WIND SYSTEMS A/S, DK
[85] 2022-04-19
[86] 2020-10-02 (PCT/DK2020/050268)
[87] (WO2021/078342)
[30] DK (PA 2019 70661) 2019-10-23

[21] **3,155,138**
[13] A1

[51] **Int.Cl. B65G 59/02 (2006.01)**

[25] EN
[54] **VISION-ASSISTED ROBOTIZED DEPALLETTIZER**
[54] **DEPALETTISEUR ROBOTISE ASSISTE PAR VISION**
[72] SIMON, CHRISTIAN, CA
[72] MORENCY, SYLVAIN-PAUL, CA
[72] LEGARE, WILLIAM, CA
[72] LAROUCHE, BENOIT, CA
[72] JODOIN, ROBERT, CA
[72] CONRAD, JUERGEN, US
[71] SYMBOTIC CANADA, ULC, CA
[85] 2022-04-19
[86] 2020-10-16 (PCT/CA2020/051387)
[87] (WO2021/072545)
[30] US (62/916,080) 2019-10-16
[30] US (17/070,753) 2020-10-14

[21] **3,155,154**
[13] A1

[51] **Int.Cl. C12N 9/24 (2006.01)**

[25] EN
[54] **COMPOSITIONS FOR DRG-SPECIFIC REDUCTION OF TRANSGENE EXPRESSION**
[54] **COMPOSITIONS POUR LA REDUCTION SPECIFIQUE DE DRG DE L'EXPRESSION DE TRANSGENE**
[72] HORDEAUX, JULIETTE, US
[72] WILSON, JAMES M., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-04-19
[86] 2020-10-22 (PCT/US2020/056881)
[87] (WO2021/081217)
[30] US (62/924,970) 2019-10-23
[30] US (PCT/US2019/067872) 2019-12-20
[30] US (62/934,915) 2019-11-13
[30] US (63/005,894) 2020-04-06
[30] US (63/023,602) 2020-05-12
[30] US (62/972,404) 2020-02-10
[30] US (63/038,514) 2020-06-12
[30] US (63/043,600) 2020-06-24

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[21] **3,155,167**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR STREAMLINING FUNDRAISING FOR CANDIDATES**
[54] **SYSTEME ET PROCEDE DE RATIONALISATION DE COLLECTE DE FONDS POUR DES CANDIDATS**
[72] STRIEBER, WILLIAM C., US
[72] WAISFELD, KEVIN, US
[71] ALIQUAM DEVELOPMENT, LLC, US
[85] 2022-04-19
[86] 2020-10-28 (PCT/US2020/057633)
[87] (WO2021/086897)
[30] US (62/926,699) 2019-10-28

[21] **3,155,172**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **COMBINATION OF ANTI-GARP ANTIBODY AND IMMUNOMODULATOR**
[54]
[72] HAYASHI, SHINKO, JP
[72] ISHIDA, SAORI, JP
[72] SATOH, KAZUKI, JP
[72] HATA, MASATO, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2022-04-19
[86] 2020-10-23 (PCT/JP2020/039802)
[87] (WO2021/079958)
[30] JP (2019-194717) 2019-10-25

[21] **3,155,174**
[13] A1

[51] **Int.Cl. B32B 3/04 (2006.01) B32B 13/08 (2006.01) B32B 13/14 (2006.01) C04B 28/14 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A CEMENTITIOUS BOARD, APPARATUS FOR PRODUCING A CEMENTITIOUS BOARD, AND CEMENTITIOUS BOARD**
[54] **PROCEDE DE PRODUCTION D'UNE PLAQUE CIMENTAIRE, APPAREIL DE PRODUCTION D'UNE PLAQUE CIMENTAIRE ET PLAQUE CIMENTAIRE**
[72] KARAKOUSSIS, STERGIOS, DE
[72] HARTMANN, ALEXANDER, DE
[72] PARASKOV, GEORGI, DE
[72] KNAUF, CARLO, DE
[72] PETER, ANTON, DE
[71] KNAUF GIPS KG, DE
[85] 2022-04-19
[86] 2019-12-16 (PCT/EP2019/000337)
[87] (WO2021/121533)

[21] **3,155,180**
[13] A1

[51] **Int.Cl. F24C 3/00 (2006.01) F24C 5/18 (2006.01)**
[25] FR
[54] **FIREPLACE WITH SUSPENDED HEARTH**
[54] **CHEMINEE A FOYER SUSPENDU**
[72] IMBERT, DOMINIQUE, FR
[72] GUY, ALEXIS, FR
[72] RAYMOND, SYLVAIN, FR
[71] ATELIER DOMINIQUE IMBERT, FR
[85] 2022-04-19
[86] 2020-10-22 (PCT/EP2020/079773)
[87] (WO2021/078870)
[30] FR (1911823) 2019-10-22
[30] FR (1912910) 2019-11-19

[21] **3,155,186**
[13] A1

[51] **Int.Cl. C10B 53/02 (2006.01) C10B 57/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PRODUCTION OF CARBONIZED PELLETS FROM BIOMASS**
[54] **COMPOSITIONS ET PROCEDES POUR LA PRODUCTION DE GRANULES CARBONISES A PARTIR DE BIOMASSE**
[72] FALEVSKY, LOUISE M., US
[72] LIND, ELAM ANDERS MAGNUS, MY
[72] KIRTANIA, KAWNISH, BD
[71] AEONIAN INC., US
[85] 2022-04-19
[86] 2020-10-20 (PCT/US2020/056496)
[87] (WO2021/080985)
[30] US (62/924,088) 2019-10-21

[21] **3,155,195**
[13] A1

[51] **Int.Cl. A46B 11/02 (2006.01) A46B 11/08 (2006.01)**
[25] EN
[54] **SHAVING BRUSH DEVICE AND SYSTEM FOR HOLDING AND HEATING A SHAVE CREAM CANNISTER AND DISPENSING SHAVE CREAM THEREFROM**
[54] **DISPOSITIF DE BROUSSE DE RASAGE ET SYSTEME DE MAINTIEN ET DE CHAUFFAGE D'UNE CARTOUCHE DE CREME DE RASAGE ET DE DISTRIBUTION DE CREME DE RASAGE A PARTIR DE CELUI-CI**
[72] SCRENCI, RALPH, US
[72] KILLAM, DAVID A., US
[71] SCRENCI, RALPH, US
[71] KILLAM, DAVID A., US
[85] 2022-04-19
[86] 2020-10-15 (PCT/US2020/055821)
[87] (WO2021/076783)
[30] US (62/915,398) 2019-10-15
[30] US (17/071,502) 2020-10-15

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[21] **3,155,199**
[13] A1

[51] **Int.Cl. A61K 31/167 (2006.01) A61P 17/06 (2006.01)**
[25] FR
[54] **ANALOGUES OF N-ACYL-HOMOSERINE LACTONES AND PHARMACEUTICAL COMPOSITION COMPRISING SAME**
[54] **ANALOGUES DE N-ACYL-HOMOSERINE LACTONES ET COMPOSITION PHARMACEUTIQUE LES COMPRENANT**
[72] SEKSIK, PHILIPPE, FR
[72] GRILL, JEAN-PIERRE, FR
[72] MALLET, JEAN-MAURICE, FR
[72] RAINTEAU, DOMINIQUE, FR
[72] LANDMAN, CECILIA, FR
[72] PEYROTTE, AGATHE, FR
[72] BROT, LOIC, FR
[71] SORBONNE UNIVERSITE, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR
[71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] ECOLE NORMALE SUPERIEURE, FR
[85] 2022-04-19
[86] 2020-10-23 (PCT/EP2020/079913)
[87] (WO2021/078952)
[30] FR (FR1911861) 2019-10-23

[21] **3,155,200**
[13] A1

[51] **Int.Cl. B64C 13/04 (2006.01) B64C 13/28 (2006.01) B64C 13/50 (2006.01) G05G 5/03 (2009.01) G05G 9/047 (2006.01)**
[25] FR
[54] **FORCE APPLICATION DEVICE FOR CONTROL STICK IN A POWER FAILURE SITUATION**
[54] **DISPOSITIF D'APPLICATION D'EFFORT POUR MANCHE DE PILOTAGE EN SITUATION DE MANQUE DE COURANT**
[72] MODI, DILIP P., US
[72] LAWNICZAK, REMI-LOUIS, FR
[72] COPPEE, PASCAL, FR
[72] ATTRAZIC, YANNICK, FR
[71] SAFRAN ELECTRONICS & DEFENSE, FR
[85] 2022-04-19
[86] 2020-10-23 (PCT/FR2020/051919)
[87] (WO2021/079075)
[30] FR (FR1911882) 2019-10-23

[21] **3,155,201**
[13] A1

[51] **Int.Cl. A23C 20/00 (2006.01) A23L 29/212 (2016.01) A23C 20/02 (2021.01)**
[25] EN
[54] **HIGH PROTEIN ANALOG CHEESE USING PEA STARCH AND METHODS FOR MAKING SUCH ANALOG CHEESE**
[54] **SUCCEDANE DE FROMAGE A HAUTE TENEUR EN PROTEINES UTILISANT DE L'AMIDON DE POIS ET PROCEDES DE FABRICATION D'UN TEL SUCCEDANE DE FROMAGE**
[72] SANGHANI, JAY, US
[72] SPERANZA, ADRIANNE, US
[72] YURGEC, MATTHEW, US
[71] CORN PRODUCTS DEVELOPMENT INC., US
[85] 2022-04-19
[86] 2020-10-20 (PCT/US2020/056461)
[87] (WO2021/080969)
[30] US (62/924,964) 2019-10-23

[21] **3,155,202**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **SYNTHETIC RIG-I-LIKE RECEPTOR AGONISTS**
[54] **AGONISTES DE RECEPTEUR DU TYPE RIG-I SYNTHETIQUES**
[72] KRIEG, ARTHUR M., US
[72] MORRIS, AARON JAY, US
[72] WALTERS, EVAN DAVID, US
[71] CHECKMATE PHARMACEUTICALS, INC., US
[85] 2022-04-19
[86] 2020-10-23 (PCT/US2020/057099)
[87] (WO2021/081353)
[30] US (62/925,120) 2019-10-23

[21] **3,155,205**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) C12Q 1/6886 (2018.01)**
[25] EN
[54] **MULTIPLE ANALYTE FECAL ANTIGEN TESTING**
[54] **TEST D'ANTIGENES FECAUX A ANALYTES MULTIPLES**
[72] FOURRIER, KEITH D., US
[72] DOMANICO, MICHAEL J., US
[72] WEBER, STEPHANIE M., US
[72] QUINT, TANYA M., US
[72] LIDGARD, GRAHAM P., US
[71] EXACT SCIENCES CORPORATION, US
[85] 2022-04-19
[86] 2020-10-16 (PCT/US2020/056086)
[87] (WO2021/076969)
[30] US (62/923,300) 2019-10-18

[21] **3,155,208**
[13] A1

[51] **Int.Cl. G06F 30/23 (2020.01)**
[25] EN
[54] **ENHANCED TECHNIQUES FOR ANALYZING INDUCTION MOTORS**
[54] **TECHNIQUES AMELIOREES POUR ANALYSER DES MOTEURS A INDUCTION**
[72] SAYED, AYESHA, US
[72] GE, HAO, US
[72] LASKARIS, KONSTANTINOS, US
[72] ALIPRANTIS, DIONYSIOS, US
[71] TESLA, INC., US
[85] 2022-04-19
[86] 2020-11-10 (PCT/US2020/059877)
[87] (WO2021/096880)
[30] US (62/933,892) 2019-11-11

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[21] **3,155,209**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 45/06 (2006.01) A61P 25/28 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **USE OF IMIDAZOPYRIMIDINE OR IMIDAZOTRIAZINE COMPOUNDS FOR PREVENTION, ALLEVIATION, OR TREATMENT OF COGNITIVE DISORDERS, OR FOR IMPROVING COGNITIVE FUNCTION**

[54] **UTILISATION DE COMPOSES D'IMIDAZOPYRIMIDINE OU D'IMIDAZOTRIAZINE POUR LA PREVENTION, LE SOULAGEMENT OU LE TRAITEMENT DE TROUBLES COGNITIFS, OU POUR AMELIORER LA FONCTION COGNITIVE**

[72] JOUNG, CHAN MI, KR
[72] CHUNG, JIN YONG, KR
[71] SK BIOPHARMACEUTICALS CO., LTD., KR
[85] 2022-04-19
[86] 2020-10-21 (PCT/KR2020/014399)
[87] (WO2021/080312)
[30] KR (10-2019-0130384) 2019-10-21

[21] **3,155,210**
[13] A1

[51] **Int.Cl. A61K 36/899 (2006.01) A61K 31/198 (2006.01) A61K 31/728 (2006.01) A61K 31/77 (2006.01) A61K 31/78 (2006.01) A61K 36/28 (2006.01) A61K 36/30 (2006.01) A61K 36/33 (2006.01) A61K 36/484 (2006.01) A61K 36/55 (2006.01) A61K 36/736 (2006.01) A61K 36/886 (2006.01) A61P 1/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR THE TREATMENT OF EPITHELIAL LESIONS**

[54] **COMPOSITIONS POUR LE TRAITEMENT DE LESIONS EPITHELIALES**

[72] TERRUZZI, CARLO, IT
[71] INTERNATIONAL HEALTH SCIENCE S.R.L., IT
[85] 2022-04-19
[86] 2020-10-22 (PCT/EP2020/079757)
[87] (WO2021/078864)
[30] EP (19204604.3) 2019-10-22

[21] **3,155,211**
[13] A1

[51] **Int.Cl. F01K 25/10 (2006.01) F02C 3/34 (2006.01)**

[25] EN

[54] **CONTROL SCHEMES FOR THERMAL MANAGEMENT OF POWER PRODUCTION SYSTEMS AND METHODS**

[54] **SCHEMAS DE COMMANDE POUR LA GESTION THERMIQUE DE SYSTEMES ET PROCEDES DE PRODUCTION D'ENERGIE**

[72] FORREST, BROCK ALAN, US
[72] LU, XIJIA, US
[72] FETVEDT, JEREMY ERON, US
[72] RAFATI, NAVID, US
[71] 8 RIVERS CAPITAL, LLC, US
[85] 2022-04-19
[86] 2020-10-22 (PCT/IB2020/059956)
[87] (WO2021/079324)
[30] US (62/924,525) 2019-10-22

[21] **3,155,212**
[13] A1

[51] **Int.Cl. B29C 33/38 (2006.01) B29C 44/58 (2006.01) C25D 1/10 (2006.01)**

[25] EN

[54] **INDIRECT METAL MOLD FOR DIRECTIONAL DRY ADHESIVES**

[54] **MOULE METALLIQUE INDIRECT POUR ADHESIFS SECS DIRECTIONNELS**

[72] KERST, CAPELLA F., US
[72] CUTKOSKY, MARK R., US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2022-04-19
[86] 2020-11-13 (PCT/US2020/060570)
[87] (WO2021/097334)
[30] US (62/936,325) 2019-11-15

[21] **3,155,214**
[13] A1

[51] **Int.Cl. E06B 9/24 (2006.01) G02F 1/163 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR CONTROLLING TINTABLE WINDOWS WITH CLOUD DETECTION**

[54] **PROCEDES ET SYSTEMES DE COMMANDE DE FENETRES POUVANT SE TEINTER AVEC DETECTION DE NUAGES**

[72] BROWN, STEPHEN CLARK, US
[72] ZEDLITZ, JASON DAVID, US
[72] RASMUS-VORRATH, JACK, US
[72] KHANNA, NITIN, US
[72] ZHONG, RUICAN, US
[72] PAREKH, VASHISTH, US
[72] TIWARI, NIDHI, US
[72] SHARMA, KRITI, US
[71] VIEW, INC., US
[85] 2022-04-19
[86] 2020-10-16 (PCT/US2020/056164)
[87] (WO2021/080879)
[30] US (62/925,716) 2019-10-24
[30] US (17/027,601) 2020-09-21

[21] **3,155,215**
[13] A1

[51] **Int.Cl. A61K 31/196 (2006.01) A61K 31/5377 (2006.01) A61K 31/7068 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING A DHODH INHIBITOR FOR THE TREATMENT OF ACUTE MYELOID LEUKEMIA**

[54] **COMPOSITIONS COMPRENANT UN INHIBITEUR DHODH POUR LE TRAITEMENT DE LA LEUCEMIE MYELOIDE AIGUE**

[72] VISWANADHA, SRIKANT, IN
[72] VAKKALANKA, SWAROOP KUMAR VENKATA SATYA, CH
[71] RHIZEN PHARMACEUTICALS AG, CH
[85] 2022-04-19
[86] 2020-10-20 (PCT/IB2020/059865)
[87] (WO2021/079273)
[30] IN (201941042600) 2019-10-21

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[21] **3,155,216**
[13] A1

[51] **Int.Cl. B01D 15/18 (2006.01) C07K 1/16 (2006.01)**
[25] EN
[54] **IN-LINE PRODUCT MONITORING IN INTEGRATED CONTINUOUS BIO-MANUFACTURING**
[54] **SURVEILLANCE DE PRODUIT EN LIGNE DANS UNE BIO-FABRICATION CONTINUE INTEGREE**
[72] SNOW, ROBERT, US
[72] KUTZKO, JOSEPH P., US
[72] KANG, XUEZHEN, US
[71] GENZYME CORPORATION, US
[85] 2022-04-19
[86] 2020-10-21 (PCT/US2020/056604)
[87] (WO2021/081055)
[30] US (62/924,551) 2019-10-22

[21] **3,155,218**
[13] A1

[51] **Int.Cl. C08G 63/12 (2006.01) C08G 63/672 (2006.01)**
[25] EN
[54] **HIGH DENSITY POLYESTER PRODUCT, COMPOSITION AND USE**
[54] **PRODUIT DE POLYESTER A HAUTE DENSITE, COMPOSITION ET UTILISATION**
[72] DUNCAN, KEVIN JOHN, GB
[72] CALE, BEN, GB
[71] EQUUS UK TOPCO LTD, GB
[85] 2022-04-19
[86] 2020-10-22 (PCT/EP2020/079687)
[87] (WO2021/078829)
[30] GB (1915316.2) 2019-10-23

[21] **3,155,219**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/71 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **COMBINED INHIBITION OF PD-1, TGF β AND TIGIT FOR THE TREATMENT OF CANCER**
[54] **INHIBITION COMBINEE DE PD-1, TGF β ET TIGIT POUR LE TRAITEMENT DU CANCER**
[72] XU, CHUNXIAO, US
[72] JIANG, FENG, US
[72] ZHANG, DONG, US
[71] MERCK PATENT GMBH, DE
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO. 4) LTD., GB
[85] 2022-04-19
[86] 2020-11-05 (PCT/EP2020/081145)
[87] (WO2021/089704)
[30] US (62/930,651) 2019-11-05
[30] US (63/045,529) 2020-06-29
[30] US (63/048,351) 2020-07-06

[21] **3,155,222**
[13] A1

[51] **Int.Cl. E21B 10/573 (2006.01) E21B 10/43 (2006.01) E21B 10/52 (2006.01) E21B 10/567 (2006.01) E21B 10/627 (2006.01) E21B 10/633 (2006.01)**
[25] EN
[54] **MECHANICAL ATTACHMENT OF CUTTING ELEMENTS TO AN EARTH-BORING BIT**
[54] **FIXATION MECANIQUE D'ELEMENTS DE COUPE A UN TREPAN DE FORAGE**
[72] SAUVAGEAU, RICHARD, US
[72] IVIE, BRADLEY, US
[72] MOROSOV, KONSTANTIN, US
[71] NATIONAL OILWELL DHT, L.P., US
[85] 2022-04-19
[86] 2020-11-02 (PCT/US2020/058579)
[87] (WO2021/091834)
[30] US (62/931,359) 2019-11-06
[30] US (62/938,669) 2019-11-21

[21] **3,155,223**
[13] A1

[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/73 (2006.01)**
[25] EN
[54] **FOAM PRECURSOR LIQUID AND FOAM CLEANSING COMPOSITION**
[54] **LIQUIDE PRECURSEUR DE MOUSSE ET COMPOSITION DE NETTOYAGE DE MOUSSE**
[72] VASUDEVAN, TIRUCHERAI VARAHAN, US
[72] DING, ZHAOWEI, US
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2022-04-19
[86] 2020-10-29 (PCT/EP2020/080395)
[87] (WO2021/084007)
[30] EP (19206576.1) 2019-10-31

[21] **3,155,224**
[13] A1

[51] **Int.Cl. B60P 1/44 (2006.01)**
[25] EN
[54] **LIFT GATE WITH INDUCTIVE COUPLING PLATFORM**
[54] **HAYON ELEVATEUR DOTE D'UNE PLATE-FORME A COUPLAGE INDUCTIF**
[72] MARJI, GEORGE Y., US
[72] ABLABUTYAN, KARAPET, US
[71] MAXON INDUSTRIES, INC., US
[85] 2022-04-19
[86] 2020-11-05 (PCT/US2020/059056)
[87] (WO2021/092137)
[30] US (62/930,671) 2019-11-05

[21] **3,155,225**
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/131 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) C01G 53/04 (2006.01)**
[25] EN
[54] **PRECURSOR MATERIALS FOR LI-ION BATTERY CATHODE SYNTHESIS**
[54] **MATERIAUX PRECURSEURS POUR LA SYNTHESE DE CATHODE DE BATTERIE LI-ION**
[72] PULLEN, ADRIAN W., US
[72] SRIRAMULU, SURESH, US
[71] CAMX POWER LLC, US
[85] 2022-04-19
[86] 2020-10-19 (PCT/US2020/056270)
[87] (WO2021/080901)
[30] US (16/662,616) 2019-10-24

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[21] **3,155,227**
[13] A1

[51] **Int.Cl. G06F 11/34 (2006.01) G06N 20/20 (2019.01)**
[25] EN
[54] **PAGE SIMULATION SYSTEM**
[54] **SYSTEME DE SIMULATION DE PAGE**
[72] GEVORKYAN, DAVID, US
[72] YILMAZ, MEHMET, US
[72] MORE, AJINKYA, US
[72] BASILICO, JUSTIN, US
[72] PADMANABHAN, PRASANNA, US
[72] KAUSHAL, VIVEK, US
[72] AGRAWA, GAURAV, US
[72] WELLINGTON, RICHARD, US
[71] NETFLIX, INC., US
[85] 2022-04-19
[86] 2020-11-05 (PCT/US2020/059211)
[87] (WO2021/092247)
[30] US (62/932,279) 2019-11-07
[30] US (16/746,795) 2020-01-17

[21] **3,155,228**
[13] A1

[51] **Int.Cl. A61F 2/95 (2013.01) A61F 2/00 (2006.01)**
[25] EN
[54] **FIBER SLACK STORAGE WITHIN A DEPLOYMENT SYSTEM HANDLE**
[54] **STOCKAGE DE MOU DE FIBRE DANS UNE POIGNEE DE SYSTEME DE DEPLOIEMENT**
[72] BEARD, MATTHEW S., US
[72] SOKEL, JUSTIN W., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2022-04-19
[86] 2019-12-18 (PCT/US2019/067107)
[87] (WO2021/126183)

[21] **3,155,229**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR SPECIFIC FOR HLA**
[54] **RECEPTEUR ANTIGENIQUE CHIMERIQUE SPECIFIQUE DE HLA**
[72] STAUSS, HANS, GB
[72] MORRIS, EMMA, GB
[72] MCGOVERN, JENNY, GB
[72] PETRIS, ELISA, GB
[72] DEAR, FREDERICK, GB
[71] UCL BUSINESS LTD, GB
[71] QUELL THERAPEUTICS LIMITED, GB
[85] 2022-04-19
[86] 2020-10-23 (PCT/GB2020/052695)
[87] (WO2021/079149)
[30] GB (1915384.0) 2019-10-23

[21] **3,155,231**
[13] A1

[51] **Int.Cl. C07D 413/10 (2006.01) A01N 43/80 (2006.01)**
[25] EN
[54] **ISOXAZOLINE COMPOUND WITH OPTICAL ACTIVITY AND USE**
[54] **COMPOSE ISOXAZOLINE PRESENTANT UNE ACTIVITE OPTIQUE ET SON UTILISATION**
[72] YANG, JICHUN, CN
[72] GUAN, AIYING, CN
[72] CUI, DONGLIANG, CN
[72] WU, QIAO, CN
[72] MA, HONGJUAN, CN
[72] WU, ENMING, CN
[72] LIU, CHANGLING, CN
[71] SHENYANG SINOCEM AGROCHEMICALS R&D CO., LTD., CN
[71] JIANGSU YANGNONG CHEMICAL CO., LTD., CN
[85] 2022-04-19
[86] 2020-10-13 (PCT/CN2020/120547)
[87] (WO2021/073487)
[30] CN (201910995340.5) 2019-10-18

[21] **3,155,234**
[13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) C12N 15/873 (2010.01)**
[25] EN
[54] **TRANSGENIC SWINE, METHODS OF MAKING AND USES THEREOF, AND METHODS OF MAKING HUMAN IMMUNE SYSTEM MICE**
[54] **PORCS TRANSGENIQUES, LEURS PROCEDES D'OBTENTION ET LEURS UTILISATIONS, ET PROCEDES D'OBTENTION DE SOURIS A SYSTEME IMMUNITAIRE HUMAIN**
[72] SYKES, MEGAN, US
[72] HAWLEY, ROBERT J., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[85] 2022-04-19
[86] 2020-10-22 (PCT/US2020/056771)
[87] (WO2021/081156)
[30] US (62/924,228) 2019-10-22
[30] US (62/925,859) 2019-10-25

[21] **3,155,235**
[13] A1

[51] **Int.Cl. G06Q 20/36 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINISTICALLY LINKING MOBILE APPLICATIONS**
[54] **SYSTEMES ET PROCEDES DE LIAISON DETERMINISTE D'APPLICATIONS MOBILES**
[72] SPECTOR, HOWARD, US
[72] CAREY, DAVID CHRISTOPHER, US
[72] DE SILVA, INDEEVARA H., US
[72] ARAVAMUDHAN, SRIDHAR, US
[71] JPMORGAN CHASE BANK, N.A., US
[85] 2022-04-19
[86] 2020-10-16 (PCT/US2020/056041)
[87] (WO2021/076932)
[30] US (62/916,446) 2019-10-17
[30] US (17/071,666) 2020-10-15

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[21] **3,155,236**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 10/02 (2012.01) G06N 20/00 (2019.01) G06F 40/279 (2020.01)**

[25] EN

[54] **INTERACTIVE AND PERSONALIZED TICKET RECOMMENDATION**

[54] **RECOMMANDATION DE BILLET INTERACTIVE ET PERSONNALISEE**

[72] NGO, SANDY, US

[72] REEB, GARRETT, US

[72] IBARRA, RICARDO, US

[72] HSU, ALICE, US

[71] STUBHUB, INC., US

[85] 2022-04-19

[86] 2020-11-13 (PCT/US2020/060603)

[87] (WO2021/101816)

[30] US (16/692,947) 2019-11-22

[21] **3,155,237**
[13] A1

[51] **Int.Cl. G06F 21/55 (2013.01) G06F 16/17 (2019.01)**

[25] EN

[54] **RANSOMWARE PREVENTION**

[54] **PREVENTION DE LOGICIEL RANCONNEUR**

[72] HOLLAND, MATTHEW, CA

[71] FIELD EFFECT SOFTWARE INC., CA

[85] 2022-04-19

[86] 2020-10-20 (PCT/CA2020/051406)

[87] (WO2021/077212)

[30] US (62/923,941) 2019-10-21

[30] US (63/059,151) 2020-07-30

[21] **3,155,238**
[13] A1

[51] **Int.Cl. B01D 21/24 (2006.01)**

[25] EN

[54] **SLUDGE WITHDRAWAL MECHANISM FOR WASTING AND RETURNING SETTLED SLUDGE FROM SECONDARY CLARIFIER WITH GRANULAR SLUDGE**

[54] **MECANISME D'EXTRACTION DE BOUES POUR EVACUER ET RETOURNER DES BOUES DECANTEES EMANANT D'UN CLARIFICATEUR SECONDAIRE COMPORTANT DES BOUES GRANULAIRES**

[72] THIEL, DONALD J., US

[72] LEPAK, ALLEN, US

[72] KATTA, GOVARDHAN R., US

[72] GERMAIT, JEFFREY P., US

[71] EVOQUA WATER TECHNOLOGIES LLC, US

[85] 2022-04-19

[86] 2021-09-14 (PCT/US2021/050300)

[87] (WO2022/056477)

[30] US (63/077,799) 2020-09-14

[30] US (63/155,862) 2021-03-03

[21] **3,155,239**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) G06Q 10/08 (2012.01)**

[25] EN

[54] **METHOD AND CONTROL ARRANGEMENT FOR OPERATING AN AUTONOMOUS AGRICULTURAL VEHICLE**

[54] **PROCEDE ET AGENCEMENT DE COMMANDE POUR FAIRE FONCTIONNER UN VEHICULE AGRICOLE AUTONOME**

[72] BRINK, MAREK, SE

[72] JAKLIK, BARTLOMIEJ, SE

[72] SLUSARCZYK, BARTLOMIEJ, SE

[71] DELAVAL HOLDING AB, SE

[85] 2022-04-19

[86] 2020-11-24 (PCT/SE2020/051115)

[87] (WO2021/107838)

[30] SE (1951367-0) 2019-11-28

[21] **3,155,240**
[13] A1

[51] **Int.Cl. F23C 7/00 (2006.01) H01M 8/04014 (2016.01) H01M 8/04746 (2016.01)**

[25] EN

[54] **A FUEL CELL SYSTEM AND TAIL GAS BURNER ASSEMBLY AND METHOD**

[54] **SYSTEME DE PILE A COMBUSTIBLE ET ENSEMBLE BRULEUR A GAZ RESIDUAIRE ET PROCEDE**

[72] COTTEREAU, ISAAC, GB

[72] MCLORN, MICHAEL, GB

[72] POSTLETHWAITE, OLIVER, GB

[72] DOZIO, SIMONE, GB

[72] BARNARD, PAUL, GB

[72] SCHMIDT, MARTIN, GB

[71] CERES INTELLECTUAL PROPERTY COMPANY, GB

[85] 2022-04-19

[86] 2020-10-15 (PCT/EP2020/079131)

[87] (WO2021/078632)

[30] GB (1915281.8) 2019-10-22

[30] US (16/660078) 2019-10-22

[21] **3,155,241**
[13] A1

[51] **Int.Cl. E06B 9/303 (2006.01) H04M 1/72415 (2021.01) E06B 9/32 (2006.01) G08C 17/02 (2006.01)**

[25] EN

[54] **AUTOMATED MOTORIZED BLIND SYSTEM**

[54] **SYSTEME DE STORE MOTORISE AUTOMATISE**

[72] BARNES, BRYAN ROBERT, US

[72] CASEY, CRAIG ALAN, US

[72] JAY, BRIAN A., US

[72] BARCO, KYLE T., US

[72] NACHTRIEB, ROBERT T., US

[72] WONG, JENNIFER, US

[72] DAS GUPTA, ROOPSHREE, US

[71] LUTRON TECHNOLOGY COMPANY LLC, US

[85] 2022-04-19

[86] 2020-12-11 (PCT/US2020/064486)

[87] (WO2021/119412)

[30] US (62/947,872) 2019-12-13

[30] US (62/979,860) 2020-02-21

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[21] **3,155,242**
[13] A1

[51] **Int.Cl. G01N 21/78 (2006.01)**
[25] EN
[54] **URINALYSIS DEVICE AND TEST STRIP FOR HOME AND POINT OF CARE USE**
[54] **DISPOSITIF D'ANALYSE D'URINE ET BANDE DE TEST POUR UN USAGE DOMESTIQUE ET DE POINT D'INTERVENTION**
[72] DECHEV, TEODORA, CA
[72] DECHEV, NIKOLAI, CA
[71] YOUCOUNT INC., CA
[85] 2022-04-19
[86] 2019-10-18 (PCT/CA2019/000149)
[87] (WO2020/077435)
[30] US (16/166,052) 2018-10-19

[21] **3,155,243**
[13] A1

[51] **Int.Cl. G07C 9/28 (2020.01) G07C 9/29 (2020.01) A61B 5/0295 (2006.01)**
[25] EN
[54] **USER STATE MONITORING SYSTEM AND METHOD USING MOTION, AND A USER ACCESS AUTHORIZATION SYSTEM AND METHOD EMPLOYING SAME**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE D'ETAT D'UTILISATEUR UTILISANT LE MOUVEMENT, ET SYSTEME D'AUTORISATION D'ACCES UTILISATEUR ET PROCEDE L'UTILISANT**
[72] MACLEAN, STUART KEITH, CA
[72] RANJAN, ABHISHEK, CA
[71] NYMI INC., CA
[85] 2022-04-19
[86] 2020-10-22 (PCT/CA2020/051420)
[87] (WO2021/077225)
[30] US (16/663,781) 2019-10-25

[21] **3,155,246**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/17 (2015.01)**
[25] EN
[54] **ENGINEERED NATURAL KILLER CELLS AND METHODS FOR USING THE SAME IN IMMUNOTHERAPY AND AUTOPHAGY INHIBITION TECHNIQUES**
[54] **CELLULES TUEUSES NATURELLES MODIFIEES ET LEURS METHODES D'UTILISATION DANS DES TECHNIQUES D'IMMUNOTHERAPIE ET D'INHIBITION DE L'AUTOPHAGIE**
[72] MATOSEVIC, SANDRO, US
[72] WANG, JIAO, US
[71] PURDUE RESEARCH FOUNDATION, US
[85] 2022-04-19
[86] 2020-10-21 (PCT/US2020/056723)
[87] (WO2021/081133)
[30] US (62/923,644) 2019-10-21

[21] **3,155,247**
[13] A1

[51] **Int.Cl. G06F 3/0481 (2022.01)**
[25] EN
[54] **SESSION MESSAGE DISPLAY METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL D'AFFICHAGE DE MESSAGE DE SESSION, ET DISPOSITIF ELECTRONIQUE ET SUPPORT D'ENREGISTREMENT**
[72] ZHANG, XU, CN
[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[85] 2022-04-19
[86] 2020-11-11 (PCT/CN2020/128163)
[87] (WO2021/093777)
[30] CN (201911102853.5) 2019-11-12

[21] **3,155,248**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/10 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCT OVERSIGHT**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE PRODUITS**
[72] ISON, LEICA, AU
[72] BROWN, STEPHEN, AU
[71] SKYJED PTY LTD, AU
[85] 2022-04-19
[86] 2020-10-22 (PCT/AU2020/051138)
[87] (WO2021/081576)
[30] AU (2019904081) 2019-10-30

[21] **3,155,250**
[13] A1

[51] **Int.Cl. F16F 9/38 (2006.01) F15B 15/20 (2006.01)**
[25] EN
[54] **A HYDRAULIC CYLINDER PISTON ROD PROTECTION SYSTEM**
[54] **SYSTEME DE PROTECTION DE TIGE DE PISTON DE CYLINDRE HYDRAULIQUE**
[72] RAY, ROBERT, AU
[71] CHROME GUARD PTY LTD, AU
[85] 2022-04-19
[86] 2020-10-23 (PCT/AU2020/051143)
[87] (WO2021/077171)
[30] AU (2019904021) 2019-10-25

[21] **3,155,253**
[13] A1

[51] **Int.Cl. A63F 13/285 (2014.01) A63F 13/24 (2014.01) A63F 13/50 (2014.01)**
[25] EN
[54] **WEARABLE GAMING DEVICE AND METHOD THEREOF**
[54] **DISPOSITIF DE JEU PORTABLE ET PROCEDE ASSOCIE**
[72] FUERTES PENA, JOSE, ES
[71] BOREAL TECHNOLOGY & INVESTMENT S.L., ES
[85] 2022-04-19
[86] 2020-06-11 (PCT/EP2020/066246)
[87] (WO2021/089200)
[30] EP (19382962.9) 2019-11-04

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[21] **3,155,284**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/64 (2017.01) A61K 51/10 (2006.01) C07K 1/22 (2006.01) C07K 7/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING MONOVALENT CCAP PRODUCT**

[54] **PROCEDE DE FABRICATION DE PRODUIT CCAP MONOVALENT**

[72] ITO, YUJI, JP

[72] TAKAHASHI, NOBUAKI, JP

[72] NAKANO, RYOSUKE, JP

[72] MAEDA, SAYAKA, JP

[71] KAGOSHIMA UNIVERSITY, JP

[85] 2022-04-20

[86] 2020-10-23 (PCT/JP2020/039978)

[87] (WO2021/080008)

[30] JP (2019-193830) 2019-10-24

[21] **3,155,294**
[13] A1

[51] **Int.Cl. G06F 13/10 (2006.01) H04N 21/258 (2011.01) H04N 5/445 (2011.01)**

[25] EN

[54] **DISPLAY CONTROL FOR TELEVISIONS**

[54] **COMMANDE D'AFFICHAGE POUR TELEVISEURS**

[72] BAKER, KYLE, US

[72] ROCHEFORD, ANTHONY J., US

[72] FAWCETT, CHRISTOPHER J., US

[71] INVUE SECURITY PRODUCTS INC., US

[85] 2022-04-20

[86] 2020-10-29 (PCT/US2020/057958)

[87] (WO2021/087111)

[30] US (62/929,492) 2019-11-01

[21] **3,155,297**
[13] A1

[51] **Int.Cl. C05F 11/08 (2006.01)**

[25] EN

[54] **PREPARATIONS FOR ENHANCED BIOCONTROL**

[54] **PREPARATIONS POUR UNE LUTTE BIOLOGIQUE AMELIOREE**

[72] NASHOLM, TORGNY, SE

[72] LOVE, JONATHAN, SE

[72] GRATZ, REGINA, SE

[71] AREVO AB, SE

[85] 2022-04-20

[86] 2020-11-05 (PCT/SE2020/051063)

[87] (WO2021/091463)

[30] SE (1951269-8) 2019-11-06

[30] SE (2050828-9) 2020-07-02

[21] **3,155,300**
[13] A1

[51] **Int.Cl. B29B 11/08 (2006.01)**

[25] EN

[54] **CONTAINER AND METHOD OF MANUFACTURE**

[54] **RECIPIENT ET PROCEDE DE FABRICATION**

[72] KELLEY, PAUL VINCENT, US

[72] GREEN, MICHAEL, US

[72] DYGERT, DOUGLAS MILES, US

[72] FUTRAL, DANIEL M., US

[71] RING CONTAINER TECHNOLOGIES LLC, US

[85] 2022-04-20

[86] 2020-11-04 (PCT/US2020/058800)

[87] (WO2021/091955)

[30] US (62/930,220) 2019-11-04

[21] **3,155,301**
[13] A1

[51] **Int.Cl. B63B 7/08 (2020.01) B63B 1/30 (2006.01)**

[25] EN

[54] **FOIL SEAT FOR A SEMI-RIGID BOAT**

[54] **SIEGE A FOIL POUR BATEAU SEMI-RIGIDE**

[72] CASTELNERAC, BERTRAND, FR

[72] PIQUET, MATIN, FR

[72] GRANCHER, JULIEN, FR

[71] SEAIR, FR

[85] 2022-04-20

[86] 2020-09-30 (PCT/EP2020/077351)

[87] (WO2021/064012)

[30] FR (FR1910918) 2019-10-02

[21] **3,155,302**
[13] A1

[51] **Int.Cl. E06B 3/58 (2006.01) E04B 2/96 (2006.01) E06B 1/36 (2006.01)**

[25] EN

[54] **CORNER WINDOW LITE ASSEMBLIES**

[54] **ENSEMBLES FEUILLES DE FENETRE DE COIN**

[72] MADUREIRA, ANTONIO V., US

[71] AV BUILDER CORP, US

[85] 2022-04-20

[86] 2020-10-23 (PCT/US2020/057024)

[87] (WO2021/081306)

[30] US (62/925,674) 2019-10-24

[30] US (62/943,559) 2019-12-04

[30] US (17/077,384) 2020-10-22

[21] **3,155,304**
[13] A1

[51] **Int.Cl. C09K 8/588 (2006.01) C09K 8/68 (2006.01) C09K 8/88 (2006.01)**

[25] EN

[54] **COMPOSITION FOR OIL AND GAS RECOVERY**

[54] **COMPOSITION POUR LA RECUPERATION DE PETROLE ET DE GAZ**

[72] FAVERO, CEDRICK, FR

[71] SPCM SA, FR

[85] 2022-04-20

[86] 2020-11-05 (PCT/EP2020/081025)

[87] (WO2021/094174)

[30] US (62/934,723) 2019-11-13

[21] **3,155,306**
[13] A1

[51] **Int.Cl. B63B 1/26 (2006.01) B63B 1/28 (2006.01)**

[25] EN

[54] **STEERING ASSISTED HEELING IN GYRATION**

[54] **GITE ASSISTEE A LA DIRECTION GYRATION**

[72] CASTELNERAC, BERTRAND, FR

[71] SEAIR, FR

[85] 2022-04-20

[86] 2020-09-30 (PCT/EP2020/077366)

[87] (WO2021/089248)

[30] FR (FR1912326) 2019-11-04

[21] **3,155,307**
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) C10L 1/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING RENEWABLE FUELS**

[54] **PROCEDE DE PRODUCTION DE CARBURANTS RENOUEVELABLES**

[72] VILJA, JESSE, FI

[72] KURONEN, MARKKU, FI

[72] NORTIO, JENNI, FI

[71] NESTE OYJ, FI

[85] 2022-04-20

[86] 2020-11-13 (PCT/FI2020/050754)

[87] (WO2021/094655)

[30] FI (PCT/FI2019/050817) 2019-11-15

PCT Applications Entering the National Phase

[21] **3,155,308**
[13] A1

[51] **Int.Cl. A61K 31/454 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01)**

[25] EN

[54] **TREATMENT OF CANCER USING A HLA-A2/WT1 X CD3 BISPECIFIC ANTIBODY AND LENALIDOMIDE**

[54] **TRAITEMENT DU CANCER A L'AIDE D'UN ANTICORPS BISPECIFIQUE HLA-A2/WT1 X CD3 ET DE LENALIDOMIDE**

[72] AUGSBERGER, CHRISTIAN, DE
[72] KLEIN, CHRISTIAN, CH
[72] SUBKLEWE, MARION, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-04-20
[86] 2020-11-03 (PCT/EP2020/080763)
[87] (WO2021/089513)
[30] EP (19207090.2) 2019-11-05

[21] **3,155,311**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/52 (2006.01)**

[25] EN

[54] **METHODS FOR PRODUCING AND USING ALKALINE AQUEOUS FERRIC IRON SOLUTIONS**

[54] **PROCEDES DE PRODUCTION ET D'UTILISATION DE SOLUTIONS AQUEUSES ALCALINES DE FER FERRIQUE**

[72] LITTLE, CHARLES DEANE, US
[72] YEAGER, YASMINA, US
[71] NEW SKY ENERGY, LLC, US
[85] 2022-04-20
[86] 2020-10-21 (PCT/US2020/056681)
[87] (WO2021/081106)
[30] US (62/924,166) 2019-10-21
[30] US (63/029,405) 2020-05-23
[30] US (63/032,600) 2020-05-30

[21] **3,155,312**
[13] A1

[51] **Int.Cl. A23L 11/00 (2021.01)**

[25] EN

[54] **A PROCESS FOR PREPARING CHICKPEA FLOUR**

[54] **PROCEDE DE PREPARATION DE FARINE DE POIS CHICHE**

[72] SHAH, PARESH, IN
[72] SABUNANI, CHIRAG, IN
[71] SUPPLANT FOODS LLP, IN
[85] 2022-04-20
[86] 2020-10-16 (PCT/IN2020/050885)
[87] (WO2021/079378)
[30] IN (201921043550) 2019-10-25

[21] **3,155,314**
[13] A1

[51] **Int.Cl. G06K 9/00 (2022.01)**

[25] EN

[54] **AUTOMATIC TRAILER DETECTION IN MULTIMEDIA CONTENT**

[54] **DETECTION AUTOMATIQUE DE BANDE-ANNONCE DANS UN CONTENU MULTIMEDIA**

[72] LIU, DONG, US
[72] WANG, LEZI, US
[72] PURI, ROHIT, US
[71] NETFLIX, INC., US
[85] 2022-04-20
[86] 2020-11-12 (PCT/US2020/060286)
[87] (WO2021/097129)
[30] US (62/935,011) 2019-11-13
[30] US (17/095,486) 2020-11-11

[21] **3,155,315**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **CHIKUNGUNYA VIRUS-LIKE PARTICLE VACCINE AND METHODS OF USING THE SAME**

[54] **VACCIN A PARTICULES TYPE VIRUS DU CHIKUNGUNYA ET SES PROCEDES D'UTILISATION**

[72] ALEXANDER, JEFFERY L., US
[72] BENNETT, SEAN ROBERT, US
[72] SMITH, JONATHAN FOWLER, US
[71] EMERGENT TRAVEL HEALTH INC., US
[85] 2022-04-20
[86] 2020-10-26 (PCT/US2020/057361)
[87] (WO2021/081499)
[30] US (62/926,357) 2019-10-25
[30] US (62/993,563) 2020-03-23

[21] **3,155,319**
[13] A1

[51] **Int.Cl. A22B 5/16 (2006.01) A22C 17/12 (2006.01) A22C 25/17 (2006.01) B26D 3/28 (2006.01) B26D 7/22 (2006.01)**

[25] EN

[54] **PRODUCTIVITY ENHANCEMENT APPARATUS FOR POWER OPERATED SKINNING EQUIPMENT**

[54] **APPAREIL D'AMELIORATION DE PRODUCTIVITE POUR EQUIPEMENT DE DEPOUILLEMENT MOTORISE**

[72] BLENKINSOPP, KEITH, NZ
[72] WICKHAM, WINSTON, NZ
[71] KANDO INNOVATION LIMITED, NZ
[71] BLENKINSOPP, KEITH, NZ
[71] WICKHAM, WINSTON, NZ
[85] 2022-04-20
[86] 2020-11-05 (PCT/NZ2020/050142)
[87] (WO2021/091399)
[30] NZ (758927) 2019-11-06
[30] NZ (769641) 2020-11-04

[21] **3,155,322**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/64 (2017.01) C07K 7/06 (2006.01)**

[25] EN

[54] **PEPTIDE MIMETICS OF DKK3B AND METHODS OF USE**

[54] **MIMETIQUES PEPTIDIQUES DE DKK3B ET PROCEDES D'UTILISATION**

[72] LEONARD, JACK L., US
[71] ACWORTH PHARMACEUTICALS, INC., US
[85] 2022-04-20
[86] 2020-10-29 (PCT/US2020/057841)
[87] (WO2021/087031)

Demandes PCT entrant en phase nationale

[21] **3,155,323**
[13] A1

[51] **Int.Cl. A23L 33/105 (2016.01) A61K 31/05 (2006.01)**

[25] EN

[54] **ELECTROSPRAYED AND ELECTROSPUN CANNABINOID COMPOSITIONS AND PROCESS TO PRODUCE**

[54] **COMPOSITIONS DE CANNABINOIDES ELECTROPULVERISEES ET ELECTROFILEES ET PROCEDE DE PRODUCTION**

[72] NOEL, JOSEPH, US

[71] CANNABIS GLOBAL, INC., US

[85] 2022-04-20

[86] 2020-11-04 (PCT/US2020/058937)

[87] (WO2021/092054)

[30] US (62/930,358) 2019-11-04

[21] **3,155,325**
[13] A1

[51] **Int.Cl. B01F 25/433 (2022.01)**

[25] EN

[54] **INLINE MIXER DEVICE, METHODS OF MIXING, AND METHODS OF MAKING AN INLINE MIXER DEVICE**

[54] **DISPOSITIF MELANGEUR EN LIGNE, PROCEDES DE MELANGE ET PROCEDES DE FABRICATION D'UN DISPOSITIF MELANGEUR EN LIGNE**

[72] HOSTERMAN, DAVID, US

[71] PARKER-HANNIFIN CORPORATION, US

[85] 2022-04-20

[86] 2020-10-22 (PCT/US2020/056872)

[87] (WO2021/091704)

[30] US (62/930,125) 2019-11-04

[21] **3,155,329**
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) C10L 1/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING RENEWABLE FUELS**

[54] **PROCEDE DE PRODUCTION DE CARBURANTS RENOUVELABLES**

[72] SARJOVAARA, TEEMU, FI

[72] HAARA, RIIKKA-MARI, FI

[72] KOUVA, MERJA, FI

[72] KIISKI, ULLA, FI

[72] VILJA, JESSE, FI

[71] NESTE OYJ, FI

[85] 2022-04-20

[86] 2020-11-13 (PCT/FI2020/050758)

[87] (WO2021/094658)

[30] FI (PCT/FI2019/050817) 2019-11-15

[21] **3,155,324**
[13] A1

[51] **Int.Cl. C01G 39/04 (2006.01) C04B 35/636 (2006.01)**

[25] EN

[54] **MOLYBDENUM OXYCHLORIDE WITH IMPROVED BULK DENSITY**

[54] **OXYCHLORURE DE MOLYBDENE A MASSE VOLUMIQUE APPARENTE AMELIOREE**

[72] LIDDLE, BRENDAN J., US

[72] GARDINIER, KATHARINE S., US

[72] LANDVATTER, TIMOTHY, US

[71] MATERION CORPORATION, US

[85] 2022-04-20

[86] 2020-10-20 (PCT/US2020/056424)

[87] (WO2021/080945)

[30] US (62/923,892) 2019-10-21

[21] **3,155,326**
[13] A1

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 10/04 (2006.01)**

[25] EN

[54] **NEEDLE-HANDLING DEVICE**

[54] **DISPOSITIF DE MANIPULATION D'AIGUILLES**

[72] BEN ARIE, JACOB, IL

[72] LACHTER, JESSE, IL

[71] ONEPASS MEDICAL LTD., IL

[85] 2022-04-20

[86] 2020-10-21 (PCT/IL2020/051104)

[87] (WO2021/079365)

[30] US (62/924,072) 2019-10-21

[30] US (17/021,681) 2020-09-15

[21] **3,155,330**
[13] A1

[51] **Int.Cl. A45D 20/10 (2006.01) A45D 20/12 (2006.01)**

[25] EN

[54] **HAIRDRYER**

[54] **SECHE-CHEVEUX**

[72] CEVA, CARLOS JOSE, IT

[71] G.A.M.A S.R.L, IT

[85] 2022-04-20

[86] 2020-11-03 (PCT/IB2020/060292)

[87] (WO2021/090155)

[30] IT (102019000020314) 2019-11-04

[21] **3,155,332**
[13] A1

[51] **Int.Cl. C05C 9/00 (2006.01) C05G 5/35 (2020.01) C05G 5/40 (2020.01)**

[25] EN

[54] **COMPOSITE FERTILISER SYSTEMS**

[54] **SYSTEMES D'ENGRAIS COMPOSITES**

[72] LEWIS, TIMOTHY DAVID, GB

[72] MEAKIN, ROBERT JOHN, GB

[71] ANGLO AMERICAN WOODSMITH LIMITED, GB

[85] 2022-04-20

[86] 2020-10-22 (PCT/GB2020/052654)

[87] (WO2021/079117)

[30] GB (1915510.0) 2019-10-25

[21] **3,155,328**
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) C10L 1/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING RENEWABLE FUEL AND BASE OIL**

[54] **PROCEDE DE PRODUCTION DE COMBUSTIBLE RENOUVELABLE ET D'HUILE DE BASE**

[72] RANTASALO, TEEMU, FI

[72] TUOMALA, OLLI, FI

[72] NEUVONEN, ARTO, FI

[72] VILJA, JESSE, FI

[71] NESTE OYJ, FI

[85] 2022-04-20

[86] 2020-11-13 (PCT/FI2020/050757)

[87] (WO2021/094657)

[30] FI (PCT/FI2019/050817) 2019-11-15

PCT Applications Entering the National Phase

[21] **3,155,333**
[13] A1

[51] **Int.Cl. B60J 5/10 (2006.01) B60J 7/16 (2006.01)**
[25] EN
[54] **TRUCK CAP**
[54] **CAPOT DE CAISSE**
[72] HICKEY, JEFFREY JOAL, US
[72] IRELAND, DONALD RICHARD, US
[72] BECKER, TERRILL D., US
[72] WESTRA, MITCHELL AUSTIN, US
[72] FLETCHER, JAMES DILLARD, US
[71] TRUCK ACCESSORIES GROUP, LLC, US
[85] 2022-04-20
[86] 2020-11-03 (PCT/US2020/058645)
[87] (WO2021/091854)
[30] US (62/930,428) 2019-11-04
[30] US (17/086,857) 2020-11-02

[21] **3,155,335**
[13] A1

[51] **Int.Cl. G06F 40/279 (2020.01) G06T 7/11 (2017.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **DOCKET ANALYSIS METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES D'ANALYSE DE FICHE DE RENSEIGNEMENTS**
[72] NDEGWA, KIARIE, NZ
[72] WU, YU, NZ
[72] FAKHOURI, SALIM M.S., NZ
[71] XERO LIMITED, NZ
[85] 2022-04-20
[86] 2020-10-22 (PCT/AU2020/051140)
[87] (WO2021/077168)
[30] AU (2019904025) 2019-10-25

[21] **3,155,337**
[13] A1

[51] **Int.Cl. C01D 3/06 (2006.01)**
[25] EN
[54] **SALT PRODUCTION VIA HYDROHALITE DECOMPOSITION**
[54] **PRODUCTION DE SEL PAR DECOMPOSITION D'HYDROHALITE**
[72] EISELE, TIM, US
[71] MICHIGAN TECHNOLOGICAL UNIVERSITY, US
[85] 2022-04-20
[86] 2020-09-30 (PCT/US2020/053584)
[87] (WO2021/080755)
[30] US (62/925,501) 2019-10-24

[21] **3,155,339**
[13] A1

[51] **Int.Cl. E04B 9/00 (2006.01)**
[25] EN
[54] **ACOUSTICAL CEILING SYSTEM**
[54] **SYSTEME DE PLAFOND ACOUSTIQUE**
[72] MEARIG, STEPHEN G., US
[72] OLESKE, PETER J., US
[71] ARMSTRONG WORLD INDUSTRIES INC., US
[85] 2022-04-20
[86] 2020-11-04 (PCT/US2020/058862)
[87] (WO2021/092000)
[30] US (62/931,081) 2019-11-05

[21] **3,155,345**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **SIGLEC-9 ECD FUSION MOLECULES AND METHODS OF USE THEREOF**
[54] **MOLECULES DE FUSION DE SIGLEC-9 ECD ET LEURS METHODES D'UTILISATION**
[72] LIANG, SPENCER, US
[72] NALLE, SAMUEL, US
[72] SUN, JEONGHOON, US
[72] LONG, HUA, US
[72] BANKOTI, RASHMI, US
[71] ALECTOR LLC, US
[85] 2022-04-20
[86] 2020-11-03 (PCT/US2020/058687)
[87] (WO2021/091885)
[30] US (62/930,227) 2019-11-04
[30] US (63/014,940) 2020-04-24
[30] US (63/092,753) 2020-10-16

[21] **3,155,347**
[13] A1

[51] **Int.Cl. A61K 33/24 (2019.01)**
[25] EN
[54] **LIPID COATED IRON OXIDE NANOPARTICLES FOR OTITIS MEDIA**
[54] **NANOPARTICULES D'OXYDE DE FER ENROBEES DE LIPIDES POUR OTITE MOYENNE**
[72] SHAPIRO, BENJAMIN, US
[72] SHUKOOR, MOHAMMED, US
[72] SRINIVASAN, SANJAY, US
[71] OTOMAGNETICS, INC., US
[85] 2022-04-20
[86] 2020-10-22 (PCT/US2020/056926)
[87] (WO2021/081251)
[30] US (62/924,585) 2019-10-22

[21] **3,155,348**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 38/09 (2006.01)**
[25] EN
[54] **A STABLE PARENTERAL DOSAGE FORM OF CETRORELIX ACETATE**
[54] **FORME POSOLOGIQUE PARENTERALE STABLE D'ACETATE DE CETRORELIX**
[72] JOSHI, JAYDIP, IN
[72] THUMMAR, RAKESH, IN
[72] AGRAWAL, SUDEEP, IN
[72] BHOWMICK, SUBHAS BALARAM, IN
[72] YADAV, ARUNKUMAR, IN
[72] THENNATI, RAJAMANNAR, IN
[71] SUN PHARMACEUTICAL INDUSTRIES LIMITED, IN
[85] 2022-04-20
[86] 2020-10-23 (PCT/IB2020/059988)
[87] (WO2021/079339)
[30] IN (201921043355) 2019-10-24

[21] **3,155,349**
[13] A1

[51] **Int.Cl. G01B 11/25 (2006.01) G01M 17/02 (2006.01) G01N 21/88 (2006.01) G01N 21/95 (2006.01)**
[25] FR
[54] **SYSTEM FOR EVALUATING THE STATE OF THE SURFACE OF A TYRE**
[54] **SYSTEME D'EVALUATION DE L'ETAT DE LA SURFACE D'UN PNEUMATIQUE**
[72] MOURougAYA, FRANCOIS, FR
[72] ROUDEL, NICOLAS, FR
[72] HECK, FLORIAN, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2022-04-20
[86] 2020-11-23 (PCT/FR2020/052147)
[87] (WO2021/105597)
[30] FR (FR1913285) 2019-11-27

Demandes PCT entrant en phase nationale

[21] **3,155,352**
[13] A1

[51] **Int.Cl. B65D 71/14 (2006.01) B65D 71/18 (2006.01) B65D 71/20 (2006.01) B65D 71/32 (2006.01) B65D 71/34 (2006.01)**

[25] EN

[54] **CARTON AND BLANK THEREFOR**

[54] **BOITE EN CARTON ET DECOUPE ASSOCIEE**

[72] MATSUBA, YOKO, JP

[71] WESTROCK PACKAGING SYSTEMS, LLC, US

[85] 2022-04-20

[86] 2020-10-16 (PCT/US2020/056008)

[87] (WO2021/076905)

[30] US (62/915,998) 2019-10-16

[21] **3,155,353**
[13] A1

[51] **Int.Cl. A61F 2/966 (2013.01) A61B 17/221 (2006.01)**

[25] EN

[54] **DELIVERY GUIDE WIRE AND THERAPEUTIC DEVICE**

[54] **FIL-GUIDE DE MISE EN PLACE ET DISPOSITIF THERAPEUTIQUE**

[72] LONG, PING, CN

[72] TIAN, HAO, CN

[72] HOU, JUAN, CN

[71] MICROPORT NEUROTECH (SHANGHAI) CO., LTD., CN

[85] 2022-04-20

[86] 2020-08-31 (PCT/CN2020/112448)

[87] (WO2021/103720)

[30] CN (201911183832.0) 2019-11-27

[21] **3,155,354**
[13] A1

[51] **Int.Cl. A61F 2/01 (2006.01) A61L 31/14 (2006.01) A61L 31/16 (2006.01) A61F 2/90 (2013.01)**

[25] EN

[54] **ABSORBABLE VASCULAR FILTER**

[54] **FILTRE VASCULAIRE ABSORBABLE**

[72] EGGERS, MITCHELL DONN, US

[71] ADIENT MEDICAL, INC., US

[85] 2022-04-20

[86] 2020-10-19 (PCT/US2020/056359)

[87] (WO2021/080923)

[30] US (16/659,536) 2019-10-21

[21] **3,155,356**
[13] A1

[51] **Int.Cl. C07K 16/00 (2006.01) G01N 30/36 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHODS FOR ANALYZING CHAIN MISPAIRING IN MULTISPECIFIC BINDING PROTEINS**

[54] **PROCEDES D'ANALYSE DU MESAPPARIEMENT DE CHAINE DANS DES PROTEINES DE LIAISON MULTISPECIFIQUES**

[72] TOUSI, FATEME, US

[71] SANOFI, FR

[85] 2022-04-20

[86] 2020-06-01 (PCT/US2020/035587)

[87] (WO2021/080649)

[30] US (62/926,313) 2019-10-25

[30] EP (20315271.5) 2020-05-28

[21] **3,155,359**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR THE PRODUCTION OF MICROALGAE BIOMASS**

[54]

[72] HUSCHEK, GERD, DE

[72] THEISEN, HORST, DE

[71] IGV INSTITUT FUR GETREIDEVERARBEITUNG GMBH, DE

[85] 2022-04-20

[86] 2020-11-04 (PCT/DE2020/100939)

[87] (WO2021/089085)

[30] DE (10 2019 130 109.2) 2019-11-07

[21] **3,155,360**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) A61K 35/48 (2015.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING ENDOMETRIOSIS**

[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DE L'ENDOMETRIOSE**

[72] EQUELS, THOMAS K., US

[72] STRAYER, DAVID R., US

[71] AIM IMMUNOTECH INC., US

[85] 2022-04-20

[86] 2020-10-22 (PCT/US2020/056882)

[87] (WO2021/081218)

[30] US (62/924,591) 2019-10-22

[30] US (63/065,475) 2020-08-13

[30] US (62/931,098) 2019-11-05

[30] US (63/065,476) 2020-08-13

[21] **3,155,363**
[13] A1

[51] **Int.Cl. A24F 40/00 (2020.01) A24F 40/10 (2020.01) A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01)**

[25] EN

[54] **ELECTRONIC DEVICES FOR AEROSOLIZING AND INHALING LIQUID**

[54] **DISPOSITIFS ELECTRONIQUES POUR L'AEROSOLISATION ET L'INHALATION DE LIQUIDE**

[72] DANEK, MARIO, US

[72] KOVACEVICH, IAN, US

[72] HEINRICH, ANDREW, US

[71] RESPIRA TECHNOLOGIES, INC., US

[85] 2022-04-20

[86] 2020-10-20 (PCT/US2020/056540)

[87] (WO2021/081009)

[30] US (62/923,602) 2019-10-20

[30] US (62/924,168) 2019-10-21

PCT Applications Entering the National Phase

[21] **3,155,364**
[13] A1

[51] **Int.Cl. A01G 9/02 (2018.01) A01G 9/029 (2018.01) A01G 9/033 (2018.01) A47G 7/04 (2006.01) A47H 27/00 (2006.01)**

[25] EN
[54] **VEGETATION HANGER**
[54] **DISPOSITIF DE SUSPENSION DE VEGETATION**

[72] LARKINS, TODD CHANDLER, US
[71] DRIFLOWER, LLC, US
[85] 2022-04-20
[86] 2020-10-09 (PCT/US2020/054898)
[87] (WO2021/072142)
[30] US (62/913,058) 2019-10-09

[21] **3,155,367**
[13] A1

[51] **Int.Cl. C08K 3/22 (2006.01) C08K 7/24 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR MONITORING SLOPE STABILITY**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE LA STABILITE DES PENTES**

[72] BOTTO, TANCREDI, US
[72] REPENNING, RICARDO, CL
[72] ARRAU, FRANCISCO, CL
[71] MUON VISION INC., US
[85] 2022-04-20
[86] 2020-11-23 (PCT/US2020/061751)
[87] (WO2021/102399)
[30] US (62/939,156) 2019-11-22

[21] **3,155,368**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01)**

[25] FR
[54] **METHOD FOR REMOVING ACID COMPOUNDS FROM A GASEOUS EFFLUENT USING A TERTIARY AMINE-BASED ABSORBENT SOLUTION**

[54] **PROCEDE D'ELIMINATION DE COMPOSES ACIDES D'UN EFFLUENT GAZEUX AVEC UNE SOLUTION ABSORBANTE D'AMINES TERTIAIRES**

[72] GRANDJEAN, JULIEN, FR
[72] HUARD, THIERRY, FR
[72] WENDER, AURELIE, FR
[72] GROSJEAN, FRANCOIS, FR
[72] KITTEL, JEAN, FR
[72] LETTAT, ABDELKADER, FR
[72] DEHLINGER, MARIE, FR
[72] MOURET, AURELIE, FR
[72] COURTIAL, XAVIER, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2022-04-20
[86] 2020-12-01 (PCT/EP2020/084178)
[87] (WO2021/121983)
[30] FR (FR1914512) 2019-12-16

[21] **3,155,369**
[13] A1

[51] **Int.Cl. A24F 40/10 (2020.01)**

[25] EN
[54] **LIQUIDS FOR AEROSOLIZING AND INHALING USING ELECTRONIC DEVICES**

[54] **LIQUIDES POUR AEROSOLISATION ET INHALATION A L'AIDE DE DISPOSITIFS ELECTRONIQUES**

[72] DANEK, MARIO, US
[72] CHENG, CHRISTOPHER KAREN, US
[72] WALSH, JOSEPH GENE, US
[71] RESPIRA TECHNOLOGIES, INC., US
[85] 2022-04-20
[86] 2020-10-20 (PCT/US2020/056541)
[87] (WO2021/081010)
[30] US (62/923,563) 2019-10-20

[21] **3,155,370**
[13] A1

[51] **Int.Cl. C07K 14/025 (2006.01) A61P 31/20 (2006.01) C07K 14/54 (2006.01)**

[25] EN
[54] **IMPROVED VACCINES FOR RECURRENT RESPIRATORY PAPILLOMATOSIS AND METHODS FOR USING THE SAME**

[54] **VACCINS AMELIORES CONTRE LE PAPILLOMAVIRUS RESPIRATOIRE RECURRENT (PRP) ET LEURS PROCEDES D'UTILISATION**

[72] WEINER, DAVID B., US
[72] YAN, JIAN, US
[71] INOVIO PHARMACEUTICALS, INC., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2022-04-20
[86] 2020-10-26 (PCT/US2020/057314)
[87] (WO2021/081480)
[30] US (62/925,283) 2019-10-24

[21] **3,155,372**
[13] A1

[51] **Int.Cl. C12N 9/80 (2006.01) C12N 9/86 (2006.01) C12N 15/09 (2006.01) C12N 15/74 (2006.01) C12P 21/02 (2006.01)**

[25] EN
[54] **MICROBIAL HOST CELLS FOR THE PRODUCTION OF HETEROLOGOUS CYANURIC ACID HYDROLASES AND BIURET HYDROLASES**

[54] **CELLULES HOTES MICROBIENNES POUR LA PRODUCTION D'HYDROLASES D'ACIDE CYANURIQUE HETEROLOGUES ET D'HYDROLASES DE BIURET**

[72] BARENDS, SHARIEF, US
[72] BONGIORNI, CRISTINA, US
[72] GUO, FENG, US
[72] MAGGIO-HALL, LORI ANN, US
[72] WACKETT, LAWRENCE PHILIP, US
[72] WHITED, GREGORY M., US
[71] DANISCO US INC, US
[85] 2022-04-20
[86] 2020-10-14 (PCT/US2020/055489)
[87] (WO2021/086606)
[30] US (62/926,665) 2019-10-28

Demandes PCT entrant en phase nationale

[21] **3,155,373**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **A PHARMACEUTICAL PREPARATION COMPRISING AN AMIDE DERIVATIVE INHIBITING THE GROWTH OF CANCER CELL AND A PHARMACEUTICAL PRODUCT CONTAINING THE SAME**

[54] **PREPARATION PHARMACEUTIQUE COMPRENANT UN DERIVE AMIDE INHIBANT LA CROISSANCE D'UNE CELLULE CANCEREUSE ET PRODUIT PHARMACEUTIQUE LE CONTENANT**

[72] KIM, YOUNG IL, KR
[72] KWON, TAEK KWAN, KR
[72] IM, HO TAEK, KR
[72] KIM, YONG IL, KR
[71] HANMI PHARM. CO., LTD., KR
[85] 2022-04-20
[86] 2020-10-23 (PCT/KR2020/014577)
[87] (WO2021/080375)
[30] KR (10-2019-0132809) 2019-10-24
[30] KR (10-2020-0137829) 2020-10-22

[21] **3,155,374**
[13] A1

[51] **Int.Cl. B62D 21/08 (2006.01) B62D 21/18 (2006.01)**

[25] EN

[54] **SPATIAL AGRICULTURAL VEHICLE FRAME STRUCTURE**

[54] **STRUCTURE SPATIALE DE CADRE DE VEHICULE AGRICOLE**

[72] JUSCIUS, KESTUTIS, LT
[71] AUGA GROUP, AB, LT
[85] 2022-04-20
[86] 2020-11-06 (PCT/IB2020/060458)
[87] (WO2021/090257)
[30] LT (LT2019 527) 2019-11-08

[21] **3,155,375**
[13] A1

[51] **Int.Cl. A61N 1/375 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **FEEDTHROUGH PROTECTIVE COVER**

[54] **HOUSSE DE PROTECTION A TROU D'INTERCONNEXION**

[72] TOMPKINS, DANA D., US
[72] GONGORA, CHRISTOPHER D., US
[72] KITSCHMANN, ACHIM, DE
[72] LOSASSO-TOMPKINS, JENNIFER, US
[72] CLEMENT, CLAUDE, CH
[71] WYSS CENTER FOR BIO AND NEURO ENGINEERING, CH
[85] 2022-04-20
[86] 2020-10-10 (PCT/IB2020/059532)
[87] (WO2021/084351)
[30] US (16/669,163) 2019-10-30

[21] **3,155,376**
[13] A1

[51] **Int.Cl. C08G 59/50 (2006.01) D06M 15/55 (2006.01) E04G 23/02 (2006.01)**

[25] EN

[54] **IMPREGNATION RESIN FOR A WOVEN OR STITCHED FABRIC**

[54] **RESINE D'IMPREGNATION POUR UN TISSU TISSE OU COUSU**

[72] MAYER, CHRISTOPH, CH
[72] ELMENDORF, DAVID, US
[72] RUSSO, AMY, US
[72] KASEMI, EDIS, CH
[72] STADELMANN, URSULA, CH
[72] GERBER, ULRICH, CH
[71] SIKA TECHNOLOGY AG, CH
[85] 2022-04-20
[86] 2020-10-20 (PCT/EP2020/079529)
[87] (WO2021/083744)
[30] EP (19205597.8) 2019-10-28

[21] **3,155,377**
[13] A1

[51] **Int.Cl. F03B 13/06 (2006.01)**

[25] EN

[54] **COMBINED GRAVITATIONAL - HYDRAULIC ELECTRIC ENERGY STORAGE SYSTEM**

[54] **SYSTEME COMBINE DE STOCKAGE D'ENERGIE ELECTRIQUE GRAVITATIONNELLE-HYDRAULIQUE**

[72] GARDUS, RARES-ALEXANDRU, RO
[71] GARDUS, RARES-ALEXANDRU, RO
[85] 2022-04-20
[86] 2020-11-11 (PCT/RO2020/050010)
[87] (WO2021/101399)
[30] RO (A 2019 00774) 2019-11-20

[21] **3,155,379**
[13] A1

[51] **Int.Cl. A61K 31/46 (2006.01) A61K 31/55 (2006.01) A61K 45/06 (2006.01) A61P 25/18 (2006.01)**

[25] EN

[54] **SCHIZOPHRENIC DISORDER TREATMENT USING COMBINATION THERAPY**

[54] **TRAITEMENT D'UN TROUBLE SCHIZOPHRENIQUE PAR POLYTHERAPIE**

[72] GRANGER, KIRI, GB
[72] BARNETT, JENNIFER HELEN, GB
[71] CAMBRIDGE COGNITION LTD., GB
[85] 2022-04-20
[86] 2020-10-21 (PCT/EP2020/079651)
[87] (WO2021/078810)
[30] US (62/924,114) 2019-10-21

PCT Applications Entering the National Phase

[21] **3,155,380**
[13] A1

[51] **Int.Cl. H04N 21/414 (2011.01) H04N 21/43 (2011.01) H04N 21/436 (2011.01) H04N 21/4363 (2011.01) H04N 21/438 (2011.01) H04N 21/439 (2011.01) H04N 21/442 (2011.01) H04N 21/462 (2011.01) H04N 21/81 (2011.01) H04N 21/84 (2011.01)**

[25] EN

[54] **SYNCHRONIZING PLAYBACK OF AUDIO INFORMATION RECEIVED FROM OTHER NETWORKS**

[54] **SYNCHRONISATION DE LA LECTURE D'INFORMATIONS AUDIO RECUES D'AUTRES RESEAUX**

[72] KORB, CAMERON ELLISON, US
[72] MANISKAS, NICHOLAS, US
[72] LIN, TED, US
[72] WANG, MENG, US
[72] BANNON, RICHARD JOHN, US
[71] SONOS, INC., US
[85] 2022-04-20
[86] 2020-09-09 (PCT/US2020/049939)
[87] (WO2021/050546)
[30] US (62/898,194) 2019-09-10

[21] **3,155,381**
[13] A1

[51] **Int.Cl. A61K 38/18 (2006.01) C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61P 21/06 (2006.01) C07K 14/00 (2006.01) C12N 15/11 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **COMBINED THERAPY FOR MUSCULAR DISEASES**

[54] **POLYTHERAPIE POUR MALADIES MUSCULAIRES**

[72] FALCONE, SESTINA, FR
[72] PIETRI-ROUXEL, FRANCE, FR
[71] ASSOCIATION INSTITUT DE MYOLOGIE, FR

[71] (INSERM) INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR

[71] SORBONNE UNIVERSITE, FR
[85] 2022-04-20
[86] 2020-11-05 (PCT/EP2020/081200)
[87] (WO2021/089736)
[30] EP (19207561.2) 2019-11-06

[21] **3,155,382**
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01C 7/20 (2006.01)**

[25] EN

[54] **ROW UNIT, AGRICULTURAL IMPLEMENT COMPRISING ROW UNIT AND METHOD OF OPERATING ROW UNIT**

[54] **RAYONNEUR, OUTIL AGRICOLE COMPRENANT UN RAYONNEUR ET PROCEDE DE FONCTIONNEMENT DE RAYONNEUR**

[72] GILSTRING, GERT, SE
[72] HAGBY, PER-ARNE, SE
[72] ROMMEDAHL, RUNE, SE
[72] STARK, CRISTER, SE
[71] VADERSTAD HOLDING AB, SE
[85] 2022-04-20
[86] 2020-10-21 (PCT/SE2020/051019)
[87] (WO2021/080494)
[30] SE (1951214-4) 2019-10-24

[21] **3,155,383**
[13] A1

[51] **Int.Cl. A61M 60/50 (2021.01) A61M 60/104 (2021.01) A61M 60/40 (2021.01) A61M 60/538 (2021.01)**

[25] EN

[54] **MOTOR FOR EXTRACORPOREAL BLOOD PUMP, EXTRACORPOREAL BLOOD PUMP AND EXTRACORPOREAL BLOOD PUMP SYSTEM**

[54] **MOTEUR POUR POMPE D'ASSISTANCE CIRCULATOIRE EXTRACORPORELLE, POMPE D'ASSISTANCE CIRCULATOIRE EXTRACORPORELLE ET SYSTEME DE POMPE D'ASSISTANCE CIRCULATOIRE EXTRACORPORELLE**

[72] LOGAN, THOMAS GEORGE, CN
[72] CLIFTON, PETER COLTON JAMES, CN

[72] WEI, BO, CN
[72] YEN, IFAN, CN
[71] MAGASSIST, INC., CN
[85] 2022-04-20
[86] 2019-12-17 (PCT/CN2019/125819)
[87] (WO2021/097973)
[30] CN (201911124056.7) 2019-11-18

[21] **3,155,384**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A23L 3/26 (2006.01) A61L 9/20 (2006.01)**

[25] EN

[54] **DISINFECTION AND MONITORING OF A BODY CONTACT DEVICE**

[54] **DESINFECTION ET SUIVI D'UN DISPOSITIF DE CONTACT CORPOREL**

[72] BAARMAN, DAVID W., US
[71] UV PARTNERS, INC., US
[85] 2022-04-20
[86] 2020-10-05 (PCT/US2020/054199)
[87] (WO2021/080763)
[30] US (62/924,327) 2019-10-22

[21] **3,155,385**
[13] A1

[51] **Int.Cl. C12N 1/14 (2006.01) A23L 31/00 (2016.01) A01G 18/00 (2018.01)**

[25] EN

[54] **EDIBLE MYCELIA AND METHODS OF MAKING THE SAME**

[54] **MYCELIUMS COMESTIBLES ET LEURS PROCEDES DE PREPARATION**

[72] WINISKI, JACOB MICHAEL, US
[72] KAPLAN-BIE, JESSIE HANNAH, US
[72] MCINTYRE, GAVIN REIM, US
[72] MUELLER, PETER, US
[72] O'BRIEN, MEGHAN, US
[72] CARLTON, ALEX, US
[72] BAYER, EBEN, US
[72] HAZEN, RUSSELL, US
[72] LOMNES, STEPHEN, US
[72] SNYDER, ASA TRENCH, US
[71] ECOVATIVE DESIGN LLC, US
[85] 2022-04-20
[86] 2020-11-04 (PCT/US2020/058934)
[87] (WO2021/092051)
[30] US (62/930,829) 2019-11-05
[30] US (62/946,752) 2019-12-11
[30] US (63/075,694) 2020-09-08
[30] US (63/028,361) 2020-05-21

Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] 3,155,386 [13] A1</p> <p>[51] Int.Cl. A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61P 25/04 (2006.01) A61P 25/08 (2006.01)</p> <p>[25] EN</p> <p>[54] (-)-CIS TETRAHYDROCANNABINOL ((-)-CIS-THC) FOR USE AS A MEDICAMENT</p> <p>[54] (-)-CIS-TETRAHYDROCANNABINOL ((-)-CIS-THC) DESTINE A ETRE UTILISE EN TANT QUE MEDICAMENT</p> <p>[72] GUY, GEOFFREY, GB</p> <p>[72] KNAPPERTZ, VOLKER, GB</p> <p>[72] WHALLEY, BENJAMIN, GB</p> <p>[72] WOOLLEY-ROBERTS, MARIE, GB</p> <p>[71] GW RESEARCH LIMITED, GB</p> <p>[85] 2022-04-20</p> <p>[86] 2020-10-23 (PCT/GB2020/052678)</p> <p>[87] (WO2021/079135)</p> <p>[30] GB (1915513.4) 2019-10-25</p>	<p style="text-align: center;">[21] 3,155,388 [13] A1</p> <p>[51] Int.Cl. C08G 18/46 (2006.01) C08G 18/76 (2006.01) C08G 73/10 (2006.01) C08G 73/16 (2006.01)</p> <p>[25] EN</p> <p>[54] IMIDE-CONTAINING POLYESTER POLYOLS AND INTUMESCENT RIGID FOAMS</p> <p>[54] POLYOLS DE POLYESTER CONTENANT UN IMIDE ET MOUSSES RIGIDES INTUMESCENTES</p> <p>[72] LISKEY, CARL WILLIAM, GB</p> <p>[72] KAPLAN, WARREN A., US</p> <p>[72] YOCIUS, DANIEL, US</p> <p>[71] STEPAN COMPANY, US</p> <p>[85] 2022-04-20</p> <p>[86] 2020-11-05 (PCT/US2020/059000)</p> <p>[87] (WO2021/092100)</p> <p>[30] US (62/932,539) 2019-11-08</p>	<p style="text-align: center;">[21] 3,155,390 [13] A1</p> <p>[51] Int.Cl. A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61P 25/04 (2006.01) A61P 25/08 (2006.01)</p> <p>[25] EN</p> <p>[54] (+)-CIS TETRAHYDROCANNABINOL ((+)-CIS-THC) FOR USE AS A MEDICAMENT</p> <p>[54] (+)-CIS TETRAHYDROCANNABINOL ((+)-CIS-THC) POUR UNE UTILISATION EN TANT QUE MEDICAMENT</p> <p>[72] GUY, GEOFFREY, GB</p> <p>[72] KNAPPERTZ, VOLKER, GB</p> <p>[72] WHALLEY, BENJAMIN, GB</p> <p>[72] WOOLLEY-ROBERTS, MARIE, GB</p> <p>[71] GW RESEARCH LIMITED, GB</p> <p>[85] 2022-04-20</p> <p>[86] 2020-10-23 (PCT/GB2020/052679)</p> <p>[87] (WO2021/079136)</p> <p>[30] GB (1915514.2) 2019-10-25</p>
<p style="text-align: center;">[21] 3,155,387 [13] A1</p> <p>[51] Int.Cl. C02F 3/34 (2006.01) C02F 1/70 (2006.01)</p> <p>[25] EN</p> <p>[54] METHODS AND COMPOSITIONS FOR REMEDIATING CYANURIC ACID IN AQUEOUS LIQUIDS</p> <p>[54] PROCEDES ET COMPOSITIONS POUR ELIMINER L'ACIDE CYANURIQUE DANS DES LIQUIDES AQUEUX</p> <p>[72] AUKEMA, KELLY GARDNER, US</p> <p>[72] DHALIWAL, RAJDEEP S., US</p> <p>[72] GUO, FENG, US</p> <p>[72] HENG, MENG HONG, US</p> <p>[72] HOFFMANN, KATHERINE, US</p> <p>[72] LATONE, JACOB ANDREW, US</p> <p>[72] WACKETT, LAWRENCE PHILIP, US</p> <p>[72] WHITED, GREGORY M., US</p> <p>[71] DANISCO US INC, US</p> <p>[85] 2022-04-20</p> <p>[86] 2020-10-14 (PCT/US2020/055481)</p> <p>[87] (WO2021/086605)</p> <p>[30] US (62/926,661) 2019-10-28</p>	<p style="text-align: center;">[21] 3,155,389 [13] A1</p> <p>[51] Int.Cl. A01N 57/20 (2006.01)</p> <p>[25] EN</p> <p>[54] HERBICIDAL GLUFOSINATE COMPOSITION</p> <p>[54] COMPOSITION HERBICIDE A BASE DE GLUFOSINATE</p> <p>[72] PENTLAND, PHILIP, AU</p> <p>[72] NEMARIC, MATHEW, AU</p> <p>[72] LE, TUNG NGOC, AU</p> <p>[72] FLYNN, ANTHONY, AU</p> <p>[71] EUREKA! AGRESEARCH PTY LTD, AU</p> <p>[85] 2022-04-20</p> <p>[86] 2020-11-20 (PCT/AU2020/051255)</p> <p>[87] (WO2021/097530)</p> <p>[30] AU (2019904382) 2019-11-20</p> <p>[30] AU (2019904592) 2019-12-04</p>	<p style="text-align: center;">[21] 3,155,391 [13] A1</p> <p>[51] Int.Cl. A61K 31/164 (2006.01) C07C 233/16 (2006.01) C07C 233/18 (2006.01) A61K 31/7125 (2006.01) A61P 35/00 (2006.01)</p> <p>[25] EN</p> <p>[54] CRYSTALLINE SOLIDS OF 3-PALMITOYL-AMIDO-1,2-PROPANEDIOL AND 3-PALMITOYL-AMIDO-2-HYDROXY-1-DIMETHOXYTRIPHENYLMETHYL ETHER-PROPANE AND METHODS OF MAKING AND USING THE SAME</p> <p>[54] SOLIDES CRISTALLINS DE 3-PALMITOYL-AMIDO -1,2-PROPANEDIOL ET DE 3-PALMITOYL-AMIDO-2-HYDROXY-1-DIMETHOXYTRIPHENYLMETHYL ETHER-PROPANE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION</p> <p>[72] ALBANEZE-WALKER, JENNIFER E., US</p> <p>[71] GERON CORPORATION, US</p> <p>[85] 2022-04-20</p> <p>[86] 2020-10-23 (PCT/US2020/057122)</p> <p>[87] (WO2021/086754)</p> <p>[30] US (62/926,810) 2019-10-28</p>

PCT Applications Entering the National Phase

[21] **3,155,392**
[13] A1

[51] **Int.Cl. D03D 13/00 (2006.01) D03D 15/00 (2021.01)**

[25] EN

[54] **TEXTILES WITH IMPROVED SURFACE STABILITY**

[54] **TEXTILES A STABILITE DE SURFACE AMELIOREE**

[72] REES, JOHN JOSEPH MATTHEWS, US

[72] DANIELL, ANTHONY, US

[72] TSIARKEZOS, STEPHEN HORACE, US

[71] ENGINEERED FLOORS LLC, US

[85] 2022-04-20

[86] 2020-11-06 (PCT/US2020/059396)

[87] (WO2021/092369)

[30] US (62/931,968) 2019-11-07

[21] **3,155,393**
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61P 25/04 (2006.01) A61P 25/08 (2006.01)**

[25] EN

[54] **(+)-TRANS TETRAHYDROCANNABINOL ((+)-TRANS-THC) FOR USE AS A MEDICAMENT**

[54] **UTILISATION DE (+)-TRANS TETRAHYDROCANNABINOL ((+)-TRANS-THC) COMME MEDICAMENT**

[72] GUY, GEOFFREY, GB

[72] KNAPPERTZ, VOLKER, GB

[72] WHALLEY, BENJAMIN, GB

[72] WOOLLEY-ROBERTS, MARIE, GB

[71] GW RESEARCH LIMITED, GB

[85] 2022-04-20

[86] 2020-10-23 (PCT/GB2020/052680)

[87] (WO2021/079137)

[30] GB (1915515.9) 2019-10-25

[21] **3,155,394**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 2/24 (2006.01)**

[25] EN

[54] **OPTICAL PROPERTIES AND METHODS FOR UV TREATMENT**

[54] **PROPRIETES OPTIQUES ET PROCEDES DE TRAITEMENT PAR ULTRAVIOLETS**

[72] BAARMAN, DAVID W., US

[71] UV PARTNERS, INC., US

[85] 2022-04-20

[86] 2020-03-06 (PCT/US2020/021437)

[87] (WO2021/080638)

[30] US (62/924,324) 2019-10-22

[21] **3,155,396**
[13] A1

[51] **Int.Cl. H01M 8/0276 (2016.01) C25B 9/23 (2021.01) C25B 9/73 (2021.01) C25B 9/77 (2021.01) H01M 8/0206 (2016.01) H01M 8/0228 (2016.01) H01M 8/0232 (2016.01) H01M 8/0245 (2016.01) H01M 8/0286 (2016.01) H01M 8/1018 (2016.01)**

[25] EN

[54] **SEALING ARRANGEMENT FOR ELECTROCHEMICAL CELLS OF THE PEM TYPE**

[54] **DISPOSITIF D'ETANCHEITE POUR CELLULES ELECTROCHIMIQUES DE TYPE PEM**

[72] HOLLER, STEFAN, DE

[71] HOELLER ELECTROLYZER GMBH, DE

[85] 2022-04-20

[86] 2020-11-04 (PCT/EP2020/080901)

[87] (WO2021/104812)

[30] EP (PCT/EP2019/082449) 2019-11-25

[21] **3,155,397**
[13] A1

[51] **Int.Cl. A01N 65/08 (2009.01) A01N 47/46 (2006.01) A01N 47/48 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **METHODS FOR WEED GROWTH CONTROL**

[54] **PROCEDES DE REGULATION DE LA CROISSANCE DE PLANTES ADVENTICES**

[72] BLETSKY, COLIN, CA

[72] LAHTI, TODD, CA

[72] GIASSON, COREY, CA

[72] MAENZ, DAVID, CA

[71] MUSTGROW BIOLOGICS CORP., CA

[85] 2022-04-20

[86] 2020-10-21 (PCT/CA2020/051408)

[87] (WO2021/077214)

[30] US (62/923,674) 2019-10-21

[30] US (62/941,930) 2019-11-29

[21] **3,155,398**
[13] A1

[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/188 (2017.01) B29C 64/209 (2017.01) B29C 64/245 (2017.01) B33Y 40/20 (2020.01)**

[25] EN

[54] **NEAR NET SHAPE ADDITIVE MANUFACTURING**

[54] **FABRICATION ADDITIVE DE FORME QUASI NETTE**

[72] SUSNJARA, KENNETH J., US

[72] SMIDDY, BRIAN S., US

[72] FUQUAY, JOHN, US

[71] THERMWOOD CORPORATION, US

[85] 2022-04-20

[86] 2020-11-20 (PCT/US2020/061550)

[87] (WO2021/102290)

[30] US (16/692,825) 2019-11-22

Demandes PCT entrant en phase nationale

[21] **3,155,399**
[13] A1

[51] **Int.Cl. G05B 23/02 (2006.01) G06Q 50/10 (2012.01)**

[25] EN

[54] **COMPUTER SYSTEMS AND METHODS FOR ESTIMATING CHANGES IN FUGITIVE EMISSIONS**

[54] **SYSTEMES INFORMATIQUES ET PROCEDES D'ESTIMATION DES CHANGEMENTS D'EMISSIONS FUGITIVES**

[72] PENG, WENFENG, US

[72] LIN, LING-YING, US

[72] NEDOSSEKINA, ALISSA, US

[71] MOLEX, LLC, US

[85] 2022-04-20

[86] 2020-11-20 (PCT/US2020/061407)

[87] (WO2021/102211)

[30] US (62/938,972) 2019-11-22

[21] **3,155,401**
[13] A1

[51] **Int.Cl. C08H 7/00 (2011.01) C08J 3/24 (2006.01) C08J 3/26 (2006.01) C08K 3/22 (2006.01) C09J 163/00 (2006.01) C09J 197/00 (2006.01)**

[25] FR

[54] **ADHESION-PROMOTING COMPOSITION FOR A TEXTILE MATERIAL AND ASSOCIATED REINFORCING TEXTILE MATERIAL**

[54] **COMPOSITION D'ADHERISATION POUR TEXTILE ET TEXTILE DE RENFORT Y RELATIF**

[72] GOBIN, MAELLE, FR

[72] HOLLANDE, LOUIS, FR

[71] PORCHER INDUSTRIES, FR

[85] 2022-04-20

[86] 2020-10-23 (PCT/EP2020/079918)

[87] (WO2021/078955)

[30] FR (FR1911954) 2019-10-25

[21] **3,155,402**
[13] A1

[51] **Int.Cl. E21B 17/02 (2006.01) E21B 47/125 (2012.01) E21B 43/14 (2006.01)**

[25] EN

[54] **MULTILATERAL COMPLETION SYSTEMS AND METHODS TO DEPLOY MULTILATERAL COMPLETION SYSTEMS**

[54] **SYSTEMES DE COMPLETION MULTILATERAUX ET PROCEDE DE DEPLOIEMENT DE SYSTEMES DE COMPLETION MULTILATERAUX**

[72] CHO, BRIAN WILLIAMS, US

[72] ALLEN, CLIFFORD, US

[72] BORGERSEN, KJETIL OEIEN, NO

[72] LANG, LOC PHUC, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-04-20

[86] 2020-10-22 (PCT/US2020/056894)

[87] (WO2021/101656)

[30] US (62/938,840) 2019-11-21

[21] **3,155,404**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/47 (2006.01) C12Q 1/68 (2018.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING PATIENTS HAVING CFH MUTATIONS WITH RECOMBINANT CFH PROTEINS**

[54] **METHODES DE TRAITEMENT DE PATIENTS PRESENTANT DES MUTATIONS DE CFH AVEC DES PROTEINES DE CFH DE RECOMBINAISON**

[72] MCLAUGHLIN, JAMES, US

[72] KATTI, SURESH, US

[72] HUANG, LISA, US

[72] LAUDER, SCOTT, US

[71] GEMINI THERAPEUTICS SUB, INC., US

[85] 2022-04-20

[86] 2020-10-23 (PCT/US2020/057155)

[87] (WO2021/081395)

[30] US (62/925,071) 2019-10-23

[21] **3,155,406**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/24 (2006.01) A61K 47/36 (2006.01) A61P 3/02 (2006.01)**

[25] EN

[54] **ORALLY ADMINISTRABLE FILMS COMPRISING POORLY WATER SOLUBLE ACTIVE INGREDIENTS AND PREPARATION THEREOF**

[54] **FILMS ADMINISTRABLES PAR VOIE ORALE COMPRENANT DES PRINCIPES ACTIFS PEU SOLUBLES DANS L'EAU ET LEUR PREPARATION**

[72] HABER, MEIR, IL

[72] GABBAY, DAVID, IL

[72] MASHAL, REVITAL, IL

[72] SANCHIK, MICHAL, IL

[71] MAABAROT PRODUCTS LTD., IL

[85] 2022-04-20

[86] 2020-11-02 (PCT/IL2020/051137)

[87] (WO2021/090309)

[30] US (62/929,963) 2019-11-04

[30] US (62/929,969) 2019-11-04

[30] US (62/930,053) 2019-11-04

[21] **3,155,412**
[13] A1

[51] **Int.Cl. B60P 7/04 (2006.01)**

[25] EN

[54] **TARPAULIN PROTECTION DEVICES**

[54] **DISPOSITIFS DE PROTECTION DE BACHE**

[72] BOUTIN, KEVEN, CA

[72] BRUNET, ETIENNE, CA

[72] MARTIN, KENDRICK, CA

[71] FABRICATION ELCARGO INC., CA

[85] 2022-04-20

[86] 2020-12-17 (PCT/IB2020/062073)

[87] (WO2021/124174)

[30] US (62/950,631) 2019-12-19

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[21] **3,155,432**
[13] A1

[51] **Int.Cl. C07K 14/31 (2006.01) C07K 1/22 (2006.01)**
[25] EN
[54] **BINDING PROTEINS FOR THE ENZYME ACID ALPHA GLUCOSIDASE (GAA) AND USES THEREOF**
[54] **PROTEINES DE LIAISON POUR L'ENZYME ALPHA GLUCOSIDASE ACIDE (GAA) ET LEURS UTILISATIONS**
[72] FIEDLER, ERIK, DE
[72] KAHL, MATHIAS, DE
[72] LOTZE, JONATHAN, DE
[72] BOSSE-DOENECKE, EVA, DE
[71] NAVIGO PROTEINS GMBH, DE
[85] 2022-04-21
[86] 2020-12-17 (PCT/EP2020/086701)
[87] (WO2021/122943)
[30] EP (19217092.6) 2019-12-17

[21] **3,155,443**
[13] A1

[51] **Int.Cl. A61K 31/445 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR TREATING CANDIDA AURIS INFECTION**
[54] **COMPOSITION ET METHODE DE TRAITEMENT D'UNE INFECTION PAR CANDIDA AURIS**
[72] PATTERSON, THOMAS F., US
[72] WIEDERHOLD, NATHAN P., US
[72] NAJVAR, LAURA K., US
[71] APPILI THERAPEUTICS INC., CA
[85] 2022-04-21
[86] 2020-10-28 (PCT/JP2020/040374)
[87] (WO2021/090739)
[30] US (62/930,076) 2019-11-04

[21] **3,155,445**
[13] A1

[51] **Int.Cl. B05D 1/36 (2006.01) B05D 3/00 (2006.01) B05D 3/02 (2006.01) B05D 5/06 (2006.01) B05D 7/24 (2006.01)**
[25] EN
[54] **METHOD FOR FORMING MULTILAYER COATING FILM**
[54] **PROCEDE DE FORMATION DE FILM DE REVETEMENT MULTICOUCHE**
[72] UKAI, YOSHIAKI, JP
[72] TSUJI, HIROYUKI, JP
[72] OGURA, KAZUTAKA, JP
[72] MATSUSHIMA, NAOTO, JP
[71] KANSAI PAINT CO., LTD., JP
[85] 2022-04-21
[86] 2020-07-09 (PCT/JP2020/026922)
[87] (WO2021/100238)
[30] JP (2019-211244) 2019-11-22

[21] **3,155,452**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) B01D 11/02 (2006.01) F26B 5/06 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR MULTI-PHASE EXTRACTION OF ACTIVE SUBSTANCES FROM BIOMASS**
[54] **PROCESSUS ET APPAREIL D'EXTRACTION MULTIPHASE DE SUBSTANCES ACTIVES D'UNE BIOMASSE**
[72] REED, RANDY, US
[71] LEHUA GROUP USA, INC., US
[85] 2022-04-21
[86] 2020-10-23 (PCT/US2020/057214)
[87] (WO2021/081444)
[30] US (62/925,137) 2019-10-23

[21] **3,155,454**
[13] A1

[51] **Int.Cl. E21D 9/087 (2006.01) E21C 35/19 (2006.01)**
[25] EN
[54] **HOUSING MOUNT ASSEMBLY FOR A ROLLER CUTTER**
[54] **ENSEMBLE MONTURE DE BOITIER DE DISPOSITIF DE COUPE A ROULEAU**
[72] ALLRED, ROSE, US
[72] STITZEL, ADAM, US
[71] ESCP GROUP LLC, US
[85] 2022-04-21
[86] 2020-10-23 (PCT/US2020/057159)
[87] (WO2021/081399)
[30] US (62/926,387) 2019-10-25

[21] **3,155,457**
[13] A1

[51] **Int.Cl. H01Q 1/24 (2006.01)**
[25] EN
[54] **ANTENNA ASSEMBLY AND ELECTRONIC DEVICE WITH ROLLABLE DISPLAY**
[54] **ENSEMBLE ANTENNE ET DISPOSITIF ELECTRONIQUE COMPORTANT UN ECRAN DE PRISE**
[72] MA, GUOZHONG, CN
[72] LI, JINLEI, CN
[72] CHEN, HAO, CN
[72] ZHONG, DING, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-04-21
[86] 2020-08-12 (PCT/CN2020/108603)
[87] (WO2021/031944)
[30] CN (201910780584.1) 2019-08-22

[21] **3,155,461**
[13] A1

[51] **Int.Cl. F24D 10/00 (2022.01) F24D 3/08 (2006.01)**
[25] EN
[54] **METHOD FOR THERMAL ENERGY TRANSMISSION USING WATER AND CARBON DIOXIDE**
[54] **PROCEDE DE TRANSMISSION D'ENERGIE THERMIQUE EN UTILISANT DE L'EAU ET DU DIOXYDE DE CARBONE**
[72] GEINOZ, FRANCOIS IGNACE, CH
[72] CUENI, MARCEL, CH
[72] YAKOB, KAMERAN, CH
[71] M.E.D. ENERGY INC., US
[85] 2022-04-21
[86] 2020-10-26 (PCT/US2020/057432)
[87] (WO2021/081541)
[30] US (16/663,954) 2019-10-25

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[21] **3,155,463**
[13] A1

[51] **Int.Cl. C01B 32/19 (2017.01) C01B 32/198 (2017.01) C01B 32/205 (2017.01) C30B 29/68 (2006.01) C30B 33/04 (2006.01)**

[25] EN

[54] **PROCESSES FOR THE PREPARATION OF EXPANDED GRAPHITE AND EXFOLIATED GRAPHENE OXIDE**

[54] **PROCEDES DE PREPARATION DE GRAPHITE EXPANSE ET D'OXYDE DE GRAPHENE EXFOLIE**

[72] CHEN, AICHENG, CA

[72] SALVERDA, MICHAEL, CA

[72] THIRUPPATHI, ANTONY RAJ, CA

[72] SIDHUREDDY, BOOPATHI, CA

[72] RAHMATI, FARNOOD, CA

[71] UNIVERSITY OF GUELPH, CA

[71] ZEN GRAPHENE SOLUTIONS LTD., CA

[85] 2022-04-21

[86] 2021-09-20 (PCT/CA2021/051305)

[87] (WO2022/056643)

[30] US (63/080,239) 2020-09-18

[21] **3,155,464**
[13] A1

[51] **Int.Cl. A61K 31/454 (2006.01) A61P 11/14 (2006.01) C07C 217/54 (2006.01) C07C 251/58 (2006.01) C07D 211/14 (2006.01) C07D 211/32 (2006.01) C07D 307/87 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **USE OF GLUTAMATE 2B RECEPTOR ANTAGONISTS AND SIGMA RECEPTOR AGONISTS AS ANTITUSSIVES**

[54] **UTILISATION D'ANTAGONISTES DU RECEPTEUR DU GLUTAMATE 2B ET D'AGONISTES DU RECEPTEUR SIGMA COMME ANTITUSSIFS**

[72] WILLIAMS, MARK, CA

[71] ALGERNON PHARMACEUTICALS INC., CA

[85] 2022-04-21

[86] 2020-03-06 (PCT/CA2020/050306)

[87] (WO2021/081624)

[30] US (62/926,871) 2019-10-28

[30] US (62/943,537) 2019-12-04

[21] **3,155,467**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/04 (2006.01) G02C 7/06 (2006.01)**

[25] EN

[54] **A NEW GENERATION OPHTHALMIC MULTIFOCAL LENSES**

[54] **LENTILLES OPHTALMIQUES MULTIFOCALES DE NOUVELLE GENERATION**

[72] HOLMSTROM, SVEN THAGE SIGVARD, TR

[71] VSY BIYOTEKNOLOJI VE ILAC SAN. A.S., TR

[85] 2022-04-21

[86] 2019-11-08 (PCT/EP2019/080758)

[87] (WO2021/089178)

[21] **3,155,470**
[13] A1

[51] **Int.Cl. D21D 5/24 (2006.01) B04C 5/00 (2006.01)**

[25] EN

[54] **SLURRY CLEANER SYSTEMS WITH CLEANER DILUTION DEVICES AND METHODS OF CLEANING SLURRIES THEREWITH**

[54] **SYSTEMES NETTOYEURS DE BOUE POURVUS DE DISPOSITIFS DE NETTOYAGE ET DE DILUTION, ET PROCEDES DE NETTOYAGE DE BOUES LES INCLUANT**

[72] EGAN, JOHN J. III, US

[71] KADANT BLACK CLAWSON, LLC, US

[85] 2022-04-20

[86] 2020-11-09 (PCT/US2020/059632)

[87] (WO2021/101742)

[30] US (62/939,253) 2019-11-22

[21] **3,155,473**
[13] A1

[51] **Int.Cl. A61H 23/00 (2006.01) B25J 9/16 (2006.01) G05B 19/42 (2006.01)**

[25] FR

[54] **DEVICE FOR DEFINING A SEQUENCE OF MOVEMENTS IN A GENERIC MODEL**

[54] **DISPOSITIF DE DEFINITION D'UNE SEQUENCE DE DEPLACEMENTS SUR UN MODELE GENERIQUE**

[72] EYSSAUTIER, FRANCOIS, FR

[72] GIBERT, GUILLAUME, FR

[71] CAPSIX, FR

[85] 2022-04-21

[86] 2020-11-30 (PCT/FR2020/052217)

[87] (WO2021/116554)

[30] FR (FR1914019) 2019-12-10

[21] **3,155,475**
[13] A1

[51] **Int.Cl. C10G 1/00 (2006.01) C10G 1/10 (2006.01) C10G 3/00 (2006.01) C10G 49/00 (2006.01) C10G 65/06 (2006.01) C10G 69/06 (2006.01)**

[25] FR

[54] **METHOD FOR PROCESSING PLASTIC PYROLYSIS OILS WITH A VIEW TO THEIR USE IN A STEAM-CRACKING UNIT**

[54] **PROCEDE DE TRAITEMENT D'HUILES DE PYROLYSE DE PLASTIQUES EN VUE DE LEUR VALORISATION DANS UNE UNITE DE VAPOCRAQUAGE**

[72] WEISS, WILFRIED, FR

[72] BONNARDOT, JEROME, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2022-04-21

[86] 2020-11-16 (PCT/EP2020/082213)

[87] (WO2021/110395)

[30] FR (FR1913625) 2019-12-02

PCT Applications Entering the National Phase

[21] **3,155,482**
[13] A1

[51] **Int.Cl. G01S 17/06 (2006.01) G01S 17/894 (2020.01) G01S 17/88 (2006.01) G01S 17/89 (2020.01)**

[25] EN

[54] **TRANSIT LOCATION SYSTEMS AND METHODS USING LIDAR**

[54] **SYSTEMES ET PROCEDES DE LOCALISATION DE TRANSIT PAR LIDAR**

[72] HANCZOR, ROBERT, US
[72] MAXWELL, DUANE, US
[72] HUANG, SHANG YI, US
[71] PIPER NETWORKS, INC., US
[85] 2022-04-21
[86] 2020-10-21 (PCT/US2020/056714)
[87] (WO2021/081125)
[30] US (62/924,017) 2019-10-21
[30] US (62/945,785) 2019-12-09

[21] **3,155,485**
[13] A1

[51] **Int.Cl. G01B 11/25 (2006.01) G06T 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR STRUCTURED ILLUMINATION MICROSCOPY**

[54] **SYSTEMES ET PROCEDES POUR MICROSCOPIE A ILLUMINATION STRUCTUREE**

[72] LU, BO, US
[72] LANGLOIS, ROBERT EZRA, US
[72] YOUNG, ANDREW JAMES, US
[72] HEIBERG, ANDREW DODGE, US
[71] ILLUMINA, INC., US
[85] 2022-04-21
[86] 2020-10-21 (PCT/US2020/056717)
[87] (WO2021/081128)
[30] US (62/924,130) 2019-10-21
[30] US (62/924,138) 2019-10-21
[30] US (17/075,692) 2020-10-21
[30] US (17/075,694) 2020-10-21

[21] **3,155,488**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) G05D 1/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTONOMOUS MOVEMENT OF MATERIAL**

[54] **SYSTEMES ET PROCEDES DE DEPLACEMENT AUTONOME DE MATERIAU**

[72] WEI, MO, US
[71] CATERPILLAR INC., US
[85] 2022-04-21
[86] 2020-10-15 (PCT/US2020/055700)
[87] (WO2021/086619)
[30] US (16/666,080) 2019-10-28

[21] **3,155,489**
[13] A1

[51] **Int.Cl. H04Q 11/00 (2006.01)**

[25] EN

[54] **PORT DETECTION METHOD, OPTICAL NETWORK DEVICE, AND PASSIVE OPTICAL NETWORK SYSTEM**

[54] **PROCEDE DE DETECTION DE PORT, DISPOSITIF DE RESEAU OPTIQUE ET SYSTEME DE RESEAU OPTIQUE PASSIF**

[72] ZHOU, ENYU, CN
[72] JING, LEI, CN
[72] ZENG, XIAOFEI, CN
[72] LIN, HUAFENG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-04-21
[86] 2020-08-25 (PCT/CN2020/111015)
[87] (WO2021/077890)
[30] CN (201911013929.7) 2019-10-23
[30] CN (202010212535.0) 2020-03-24

[21] **3,155,490**
[13] A1

[51] **Int.Cl. H04N 5/232 (2006.01) H04N 21/81 (2011.01) H04N 5/225 (2006.01)**

[25] EN

[54] **MOBILE APPLICATION CAMERA ACTIVATION AND DE-ACTIVATION BASED ON PHYSICAL OBJECT LOCATION**

[54] **ACTIVATION ET DESACTIVATION DE CAMERA D'APPLICATION MOBILE SUR LA BASE D'UN EMPLACEMENT D'OBJET PHYSIQUE**

[72] ALAARIF, NOORULDEEN A ARIF, US
[71] HUMANS, INC (DBA FLIP FIT), US
[85] 2022-04-21
[86] 2020-11-06 (PCT/IB2020/060487)
[87] (WO2021/090274)
[30] US (62/932,117) 2019-11-07
[30] US (16/742,667) 2020-01-14

[21] **3,155,492**
[13] A1

[51] **Int.Cl. G01M 3/02 (2006.01) G01M 3/04 (2006.01)**

[25] EN

[54] **CONTAINER LEAKAGE DETECTION USING THERMAL IMAGING**

[54] **DETECTION DE FUITE DE RECIPIENT A L'AIDE D'UNE IMAGERIE THERMIQUE**

[72] POPE, TIMOTHY, CA
[72] OUELLET, SAMUEL, CA
[72] BROWN, ROBERT, CA
[71] INSTITUT NATIONAL D'OPTIQUE, CA
[85] 2022-04-21
[86] 2020-10-23 (PCT/CA2020/051425)
[87] (WO2021/081628)
[30] US (62/929,155) 2019-11-01

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[21] **3,155,494**
[13] A1

[51] **Int.Cl. G06F 16/957 (2019.01) H04N 21/2343 (2011.01) H04N 21/4402 (2011.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONSTRUCTING FILTER GRAPH-BASED MEDIA PROCESSING PIPELINES IN A BROWSER**

[54] **SYSTEME ET PROCEDE DE CONSTRUCTION DE PIPELINES DE TRAITEMENT MULTIMEDIA BASES SUR DES GRAPHES DE FILTRES DANS UN NAVIGATEUR**

[72] PEARCE, JAMES EDWARD, GB
[71] GRASS VALLEY LIMITED, GB
[85] 2022-04-21
[86] 2020-10-30 (PCT/GB2020/052749)
[87] (WO2021/084269)
[30] US (62/929,600) 2019-11-01
[30] US (62/943,058) 2019-12-03
[30] US (17/084,112) 2020-10-29

[21] **3,155,496**
[13] A1

[51] **Int.Cl. G01R 33/035 (2006.01) H01F 6/06 (2006.01) H01L 39/16 (2006.01) H02H 7/00 (2006.01)**

[25] EN

[54] **A SUPERCONDUCTING SWITCH INTERRUPTEUR SUPRACONDUCTEUR**

[72] BADCOCK, RODNEY ALAN, NZ
[72] BUMBY, CHRISTOPHER WILLIAM, NZ
[72] GENG, JIANZHAO, NZ
[71] VICTORIA LINK LIMITED, NZ
[85] 2022-04-21
[86] 2020-10-23 (PCT/NZ2020/050132)
[87] (WO2021/080443)
[30] AU (2019904009) 2019-10-25

[21] **3,155,498**
[13] A1

[51] **Int.Cl. B29C 48/92 (2019.01) B29C 48/10 (2019.01)**

[25] EN

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[72] WIELICZKO, JOEL D., US
[72] BAFNA, AYUSH A., US
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[71] UNIVATION TECHNOLOGIES, LLC, US
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[54] **MILIEUX ET FILTRES A AIR POUR LA SEQUESTRATION DU DIOXYDE DE CARBONE**

[72] GERLACH, RICHARD, CA
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[21] **3,155,505**
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01)**

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[54] **REGIME POSOLOGIQUE D'AGENTS ANTI-EGFRVIII**

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[72] STIENEN, SABINE, DE
[72] UPRETI, VIJAY VISHESH, US
[72] YAGO, MARC ANTHONY, US
[71] AMGEN INC., US
[71] AMGEN RESEARCH (MUNICH) GMBH, DE
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[30] US (62/931,975) 2019-11-07

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[51] **Int.Cl. B61L 25/02 (2006.01)**

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[54] **SYSTEME ET PROCEDE DE DETECTION D'OBJETS A HAUTE INTEGRITE**

[72] BEACH, DAVID, CA
[72] GREEN, ALON, CA
[72] KINIO, WALTER, CA
[71] THALES CANADA INC., CA
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[54] **BIDON DE SORTIE DE MELANGEUR DE PATE DE PLATRE**

[72] LASH, JASON, US

[72] KRELL, MICHAEL, US

[72] EVERSOLE, LESLIE, US

[72] ROSARIO, DOMINGO, US

[71] UNITED STATES GYPSON COMPANY, US

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[54] **STRUCTURE PORTEUSE DESTINEE A PORTER UNE ENVELOPPE CONSTITUEE D'UN FILM ET CONSTRUCTION COMPRENANT UNE TELLE STRUCTURE PORTEUSE**

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[72] CHAPARRO, RODOLFO J., US

[72] ROSS, JOHN F., US

[72] LOW, CHEE MENG, US

[71] CUE BIOPHARMA, INC., US

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[54] **BLANK FOR FABRICATING WEAR MEMBER FOR A GROUND-ENGAGING TOOL**

[54] **EBAUCHE DE FABRICATION D'UN ELEMENT D'USURE DESTINE A UN OUTIL DE MISE EN PRISE AVEC LE SOL**

[72] KUNZ, PHILLIP JOHN, US

[72] DEAN, ADAM M., US

[71] CATERPILLAR INC., US

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[54] **WORK TOOL DATA SYSTEM AND METHOD THEREOF**

[54] **SYSTEME DE DONNEES SE RAPPORTANT A UN OUTIL DE TRAVAIL ET PROCEDE ASSOCIE**

[72] MATZELLE, RICHARD A., US

[71] CATERPILLAR INC., US

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[30] US (16/670,783) 2019-10-31

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[13] A1

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[72] CHOI, TONY CHUNGLIT, CN

[71] PLANTARX LIMITED, CN

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[13] A1

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[71] PERTEC ELECTRONICS COMPANY LIMITED, CN

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[13] A1

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[72] SUBRAMANIAN, GAUTHAM, US
[71] CATERPILLAR INC., US
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[13] A1

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[54] **METHODS FOR MAKING MICRONEEDLES USING ADJUSTMENT OF COMPONENT SOLUBILITY IN CASTING FORMULATIONS**
[54] **PROCEDES DE FABRICATION DE MICRO-AIGUILLES PAR AJUSTEMENT DE LA SOLUBILITE DE COMPOSANT DANS DES FORMULATIONS DE COULAGE**
[72] TERRY, RICHARD N., US
[72] PRAUSNITZ, MARK R., US
[71] GEORGIA TECH RESEARCH CORPORATION, US
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[13] A1

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[54] **CLEAN LABEL STARCH COMPOSITIONS**
[54] **COMPOSITIONS D'AMIDON POUR ETIQUETTE PROPRE**
[72] DURCH, NICOLE MARIE, US
[72] VAMADEVAN, VARATHARAJAN, US
[71] CARGILL, INCORPORATED, US
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[13] A1

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[54] **SULFATE BASED, AMMONIUM FREE TRIVALENT CHROMIUM DECORATIVE PLATING PROCESS**
[54] **PROCEDE DE PLACAGE DECORATIF AU CHROME TRIVALENT SANS AMMONIUM A BASE DE SULFATE**
[72] DAL ZILIO, DIEGO, IT
[72] MARTIN, ANDREA, IT
[72] DALBIN, SANDRINE, IT
[71] COVENTYA S.P.A., IT
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[13] A1

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[54] **ASSAY DEVICES AND METHODS OF MANUFACTURE**
[54] **DISPOSITIFS DE DOSAGE ET PROCEDES DE FABRICATION**
[72] WERNEREHL, AARON, US
[72] BRUNS, JONATHAN A., US
[72] DERRICK, JONATHAN B., US
[72] ZIMMERMAN, TAYLOR S., US
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[71] BIOMERIEUX, INC., US
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[51] **Int.Cl. E21B 43/013 (2006.01) E21B 19/16 (2006.01) E21B 34/14 (2006.01) E21B 43/12 (2006.01) E21B 43/16 (2006.01)**
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[54] **CONNEXION SELECTIVE DE REGIONS DE FOND DE TROU**
[72] SIMPSON, GRAEME DAVID, GB
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
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[21] **3,155,531**
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[25] EN
[54] **FILLER MIXTURE FOR CHEMICAL FASTENING SYSTEMS AND USE THEREOF**
[54] **MELANGE DE CHARGES POUR SYSTEMES DE FIXATION CHIMIQUE ET SON UTILISATION**
[72] BURGEL, THOMAS, DE
[72] SIRCH, VANESSA, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
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[54] **PROCEDE D'IDENTIFICATION D'UN ARTICLE, SEPARATION DE DECHETS ET ARTICLE COMPRENANT UN CODE A POINTS**

[72] KERVER, JOHANNES BERNARDUS, NL

[72] VAN DOMMELEN, BJORN-ERIK JOHAN WILLEM PIETER HENDRIK, NL

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[54] **PROCEDE ET SYSTEME POUR LA CONCEPTION DE VACCIN OPTIMAL**

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[72] CHENG, JUN, DE

[71] NEC LABORATORIES EUROPE GMBH, DE

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[51] **Int.Cl. A47K 10/32 (2006.01)**

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[54] **DISPENSING DEVICE WITH REPLACEABLE FRONT COVER**

[54] **DISPOSITIF DE DISTRIBUTION DOTE D'UN COUVERCLE AVANT REMPLACABLE**

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[72] CHALKO, ERIC M., US

[72] HUTCHISON, PHILLIP L., US

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[25] EN

[54] **AMORPHOUS SOLID SUCCINYLATED 3-(FATTY ACID AMIDO)-2-HYDROXY-1-(PROTECTED HYDROXY)-PROPANE SALTS AND METHODS OF MAKING THE SAME**

[54] **SELS SOLIDES AMORPHES DE 3-(ACIDE GRAS AMIDO)-2-HYDROXY-1-(HYDROXY PROTEGE)-PROPANE SUCCINYLES ET LEURS PROCEDES DE FABRICATION**

[72] ALBANEZE-WALKER, JENNIFER E., US

[71] GERON CORPORATION, US

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[54] **DISTRIBUTEUR DE SERVIETTES ELECTRONIQUE PRESENTANT UN MODE DE FAIBLE CONSOMMATION D'ENERGIE**

[72] LEWIS, RICHARD P., US

[71] KIMBERLY-CLARK WORLDWIDE, INC., US

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[54] **AMORPHOUS FORM OF A COMPLEMENT COMPONENT C5A RECEPTOR**

[54] **FORME AMORPHE D'UN RECEPTEUR DE CONSTITUANT C5A DU COMPLEMENT**

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[72] LUONG, KENKEN, US

[72] SINGH, RAJINDER, US

[72] ZENG, YIBIN, US

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[72] LELETI, MANMOHAN REDDY, US

[72] LUI, REBECCA M., US

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[72] DOLAN, THOMAS A., US
[72] SHIREY, ROBERT, US
[72] COOK, JARROD, US
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[13] A1

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[72] LITTLER, STUART, AU
[71] NUSEED NUTRITIONAL US INC., US
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[30] US (62/926,239) 2019-10-25

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[13] A1

[51] **Int.Cl. C08B 37/00 (2006.01) C08B 37/08 (2006.01)**

[25] EN
[54] **PROCESS FOR THE PURIFICATION OF HYALURONIC ACID SODIUM SALT, CONDUCTED IN ORGANIC SOLVENT**
[54] **PROCEDE DE PURIFICATION DE SEL DE SODIUM D'ACIDE HYALURONIQUE, CONDUIT DANS UN SOLVANT ORGANIQUE**
[72] STUCCHI, LUCA, IT
[72] PICOTTI, FABRIZIO, IT
[72] SECHI, ALESSANDRA, IT
[72] GIANNI, RITA, IT
[71] BMG PHARMA S.P.A., IT
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[13] A1

[51] **Int.Cl. C12N 15/00 (2006.01) C12N 9/26 (2006.01)**

[25] EN
[54] **NUCLEIC ACIDS, VECTORS, HOST CELLS AND METHODS FOR PRODUCTION OF BETA-FRUCTOFURANOSIDASE FROM ASPERGILLUS NIGER**
[54] **ACIDES NUCLEIQUES, VECTEURS, CELLULES HOTES ET PROCEDES DE PRODUCTION DE BETA-FRUCTOFURANOSIDASE A PARTIR D'ASPERGILLUS NIGER**
[72] BEERAM, RAVI CHANDRA, IN
[72] SINHA, DIPANWITA, IN
[72] MUSUKU, BHARATH BABU, IN
[72] ARE, CHIRANJEEVI, IN
[72] KUMAR, DEEPIKA, IN
[71] REVELATIONS BIOTECH PVT LTD, IN
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[13] A1

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[54] **COMPOSES MACROCYCLIQUES SUBSTITUES ET METHODES DE TRAITEMENT ASSOCIEES**
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[72] CHOI, YOUNGGI, US
[72] HUYNH, HOAN, US
[72] AQUILA, BRIAN M., US
[72] MUGGE, INGO, US
[72] HU, YUAN, US
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[72] VALIULIN, ROMAN A., US
[72] RAYMER, BRIAN KENNETH, US
[72] BENTZIEN, JORG MARTIN, US
[72] HALE, MICHAEL R., US
[72] LEHMANN, JONATHAN WARD, US
[72] MATHARU, DALJIT, US
[72] KARRA, SRINIVASA, US
[71] ALKERMES, INC., US
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[30] US (62/939,825) 2019-11-25
[30] US (63/030,979) 2020-05-28

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[13] A1

[51] **Int.Cl. E04G 21/04 (2006.01) G01S 15/88 (2006.01) G01V 1/00 (2006.01)**

[25] FR
[54] **CONCRETE PUMP EQUIPPED WITH HAZARD DETECTION MEANS**
[54] **POMPE A BETON EQUIPEE DE MOYENS DE DETECTION DE DANGERS**
[72] MORGADO, NELSON, FR
[71] QUALI PARTS & SERVICES, FR
[85] 2022-04-28
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[87] (WO2021/089316)
[30] FR (1912331) 2019-11-04

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[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **PREDICTIVE RESOURCE ALLOCATION IN AN EDGE COMPUTING NETWORK**
[54] **ATTRIBUTION PREDICTIVE DE RESSOURCES DANS UN RESEAU DE CALCUL INFORMATISE EN PERIPHERIE DE RESEAU**
[72] CASEY, STEVEN M., US
[72] CASTRO, FELIPE, US
[72] OPFERMAN, STEPHEN, US
[72] MCBRIDE, KEVIN M., US
[71] CENTURYLINK INTELLECTUAL PROPERTY LLC, US
[85] 2022-05-05
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[87] (WO2021/092212)
[30] US (62/931,538) 2019-11-06

[21] **3,159,263**
[13] A1

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/26 (2006.01) A01N 37/46 (2006.01) A01N 43/58 (2006.01) A01P 7/04 (2006.01)**
[25] EN
[54] **STABILIZATION OF DIMPROPYRIDAZ SUSPENSIONS BY TRIETHYLAMMONIUM CHLORIDE**
[54] **STABILISATION DE SUSPENSIONS DE DIMPROPYRIDAZ PAR DU CHLORURE DE TRIETHYLAMMONIUM**
[72] XU, WEN, US
[72] BENTON, KARA WALDEN, US
[72] HARRINGTON, HOLDEN COLE, US
[72] GEBHARDT, JOACHIM, DE
[71] BASF SE, DE
[85] 2022-05-24
[86] 2020-11-16 (PCT/EP2020/082190)
[87] (WO2021/104907)
[30] EP (19211618.4) 2019-11-26

[21] **3,159,267**
[13] A1

[51] **Int.Cl. A61C 7/06 (2006.01) A61B 17/80 (2006.01) A61C 7/10 (2006.01) A61C 8/00 (2006.01)**
[25] EN
[54] **IMPROVED MAXILLARY EXPANDER AND PROTRACTION DEVICE**
[54] **DISPOSITIF D'EXPANSION MAXILLAIRE ET DISPOSITIF DE PROTRACTION AMELIORES**
[72] KAVEH, CAMERON, US
[72] BERANEK, RICHARD, CA
[71] CRANIOFACIAL TECHNOLOGIES INC., US
[85] 2021-05-10
[86] 2018-11-24 (PCT/US2018/062403)
[87] (WO2019/104255)
[30] US (62/590,363) 2017-11-24
[30] US (62/676,969) 2018-05-26
[30] US (62/685,801) 2018-06-15
[30] US (62/699,264) 2018-07-17
[30] US (16/115,564) 2018-08-29

[21] **3,159,531**
[13] A1

[51] **Int.Cl. B01D 65/02 (2006.01) B01D 63/02 (2006.01) B01D 63/04 (2006.01) B01D 65/08 (2006.01) C02F 3/00 (2006.01) C02F 3/12 (2006.01) C02F 3/20 (2006.01)**
[25] EN
[54] **METHOD FOR FILTERING A LIQUID AND FILTER DEVICE**
[54] **PROCEDE DE FILTRAGE D'UN LIQUIDE ET DISPOSITIF DE FILTRAGE**
[72] VOSSENKAUL, KLAUS, DE
[72] VOLMERING, DIRK, DE
[71] MEMBION GMBH, DE
[85] 2022-04-28
[86] 2020-10-26 (PCT/EP2020/080074)
[87] (WO2021/083846)
[30] DE (10 2019 129 074.0) 2019-10-28

[21] **3,159,532**
[13] A1

[51] **Int.Cl. F04B 51/00 (2006.01) F04B 47/02 (2006.01) F04B 17/03 (2006.01) F04B 49/06 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING OPERATING PROPERTIES OF A DRILL-ROD BOREHOLE PUMP, AND PUMP SYSTEM FOR SAME**
[54] **PROCEDE PERMETTANT DE DETERMINER DES PROPRIETES DE FONCTIONNEMENT D'UNE POMPE DE FORAGE A TIGE DE FORAGE ET SYSTEME DE POMPE ASSOCIE**
[72] GSCHIEL, STEFAN, AT
[72] WIMMER, HELMUT, AT
[72] SCHMIDT, DIETMAR, AT
[71] SIEMENS ENERGY AUSTRIA GMBH, AT
[85] 2022-04-28
[86] 2020-10-28 (PCT/EP2020/080274)
[87] (WO2021/083953)
[30] EP (19206209.9) 2019-10-30

[21] **3,159,534**
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 31/454 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD19 THERAPY IN COMBINATION WITH LENALIDOMIDE FOR THE TREATMENT OF LEUKEMIA OR LYMPHOMA**
[54] **THERAPIE ANTI-CD19 EN COMBINAISON AVEC DU LENALIDOMIDE POUR LE TRAITEMENT DE LA LEUCEMIE OU DU LYMPHOME**
[72] AMBARKHANE, SUMEET, DE
[72] WEIRATHER, JOHANNES, DE
[71] MORPHOSYS AG, DE
[85] 2022-04-28
[86] 2020-10-30 (PCT/EP2020/080492)
[87] (WO2021/084062)
[30] EP (19206463.2) 2019-10-31

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[21] **3,159,682**
[13] A1

[51] **Int.Cl. C12N 15/63 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING NEW MUTATIONS IN ORGANISMS, AND APPLICATION THEREOF**
[54] **PROCEDE DE GENERATION DE NOUVELLES MUTATIONS DANS DES ORGANISMES, ET APPLICATION ASSOCIEE**
[72] JIANG, LINJIAN, CN
[72] MO, SUDONG, CN
[72] WANG, JIYAO, CN
[72] LI, YUCAI, CN
[72] QI, WEI, CN
[72] LI, HUARONG, CN
[72] CHEN, BO, CN
[71] QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD., CN
[85] 2022-04-28
[86] 2020-10-13 (PCT/CN2020/120633)
[87] (WO2021/088601)
[30] CN (201911081617.X) 2019-11-07
[30] CN (202010821877.2) 2020-08-15
[30] CN (202010974151.2) 2020-09-16

[21] **3,159,683**
[13] A1

[51] **Int.Cl. A61M 1/28 (2006.01)**
[25] EN
[54] **PERITONEAL DIALYSIS SYSTEMS, DEVICES, AND METHODS**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE DIALYSE PERITONEALE**
[72] WYETH, MARK T., US
[72] MCCARTY, ROBERT PAUL, US
[72] YANTZ, GREGORY, US
[72] BOWEN, WINSTON, US
[71] NXSTAGE MEDICAL, INC., US
[85] 2022-04-28
[86] 2020-11-18 (PCT/US2020/061074)
[87] (WO2021/102012)
[30] US (62/938,429) 2019-11-21

[21] **3,159,685**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 50/26 (2012.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR ENSURING RELEVANT INFORMATION SHARING DURING PUBLIC SAFETY INCIDENTS**
[54] **PROCEDES ET APPAREIL PERMETTANT D'ASSURER UN PARTAGE D'INFORMATIONS PERTINENT PENDANT DES INCIDENTS DE SECURITE PUBLIQUE**
[72] WALTON, BRADY, US
[72] PERKINS, ERNEST, US
[72] TANNER, KYLENE, US
[72] PADDOCK, NICHOLAS, US
[71] MOTOROLA SOLUTIONS, INC., US
[85] 2022-04-28
[86] 2020-11-11 (PCT/US2020/060044)
[87] (WO2021/101774)
[30] US (16/687,104) 2019-11-18

[21] **3,159,745**
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/40 (2006.01) C12N 15/12 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **DEGRADATION OF SURFACE PROTEINS USING BISPECIFIC BINDING AGENT**
[54] **DEGRADATION DE PROTEINES DE SURFACE A L'AIDE D'UN AGENT DE LIAISON BISPECIFIQUE**
[72] WELLS, JAMES A., US
[72] COTTON, ADAM D., US
[72] NGUYEN, DUY, US
[72] PANCE, KATARINA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-04-29
[86] 2020-10-30 (PCT/US2020/058328)
[87] (WO2021/087338)
[30] US (62/929,674) 2019-11-01

[21] **3,159,746**
[13] A1

[51] **Int.Cl. C04B 22/06 (2006.01) C04B 22/10 (2006.01) C04B 22/12 (2006.01)**
[25] EN
[54] **METHODS OF FORMING MINERALS USING BIOMINERALIZING MICROORGANISMS AND BIOMINERALIZING MACROORGANISMS AND COMPOSITIONS FORMED USING SAME**
[54] **PROCEDES DE FORMATION DE MINERAUX A L'AIDE DE MICROORGANISMES BIOMINERALISANTS ET DE MACROORGANISMES BIOMINERALISANTS ET COMPOSITIONS FORMEES A L'AIDE DE CEUX-CI**
[72] SRUBAR, III WILFRED V., US
[72] WILLIAMS, SARAH LYNN, US
[72] CAMERON, JEFFREY, US
[72] COOK, SHERRI, US
[72] NAGARAJAN, APARNA, US
[72] HEVERAN, CHELSEA, US
[72] HUBLER, MIJA, US
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[85] 2022-04-29
[86] 2020-10-30 (PCT/US2020/058344)
[87] (WO2021/087350)
[30] US (62/928,944) 2019-10-31

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[21] **3,159,747**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 14/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **HLA CLASS I SEQUENCE DIVERGENCE AND CANCER THERAPY**

[54] **DIVERGENCE DE SEQUENCES DE HLA DE CLASSE I ET CANCEROTHERAPIE**

[72] CHAN, TIMOTHY A., US

[72] PUENTE, DIEGO CHOWELL, US

[72] KRISHNA, CHIRAG, US

[72] LENZ, TOBIAS LEANDER, DE

[72] PIERINI, FEDERICA, IT

[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE

[85] 2022-04-29

[86] 2020-10-30 (PCT/US2020/058389)

[87] (WO2021/087381)

[30] US (62/929,756) 2019-11-01

[21] **3,159,748**
[13] A1

[51] **Int.Cl. G01R 31/34 (2020.01) G01R 31/364 (2019.01) G01R 31/36 (2020.01)**

[25] EN

[54] **BATTERY CHARGING DEVICE HAVING A TEMPERATURE SENSOR FOR PROVIDING TEMPERATURE COMPENSATION DURING CHARGING, AND METHOD OF MEASURING DEPLETED OR DISCHARGED BATTERY TEMPERATURE FOR COMPENSATING CHARGING OF A BATTERY CHARGING DEVICE**

[54] **DISPOSITIF DE CHARGE DE BATTERIE AYANT UN CAPTEUR DE TEMPERATURE POUR FOURNIR UNE COMPENSATION DE TEMPERATURE PENDANT LA CHARGE, ET PROCEDE DE MESURE DE TEMPERATURE DE BATTERIE EPUISEE OU DECHARGEE POUR COMPENSER LA CHARGE D'UN DISPOSITIF DE CHARGE DE BATTERIE**

[72] MCBRIDE, JAMES P., US

[72] STANFIELD, JAMES RICHARD, US

[72] SIMON, DANIEL, US

[72] NOOK, JONATHAN LEWIS, US

[72] UNDERHILL, DEREK MICHAEL, US

[71] THE NOCO COMPANY, US

[85] 2022-04-29

[86] 2020-10-30 (PCT/US2020/058401)

[87] (WO2021/087390)

[30] US (62/929,636) 2019-11-01

[21] **3,159,750**
[13] A1

[51] **Int.Cl. C07F 15/04 (2006.01) C08F 4/70 (2006.01) C08F 10/02 (2006.01) C08F 210/16 (2006.01)**

[25] EN

[54] **AMINO-IMINE METAL COMPLEX AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**

[54] **COMPLEXE METALLIQUE AMINO-IMINE AINSI QUE SON PROCEDE DE PREPARATION ET SON APPLICATION**

[72] GAO, RONG, CN

[72] LAI, JINGJING, CN

[72] GUO, ZIFANG, CN

[72] GOU, QINGQIANG, CN

[72] ZHOU, JUNLING, CN

[72] ZHANG, XIAOFAN, CN

[72] LIU, DONGBING, CN

[72] LIN, JIE, CN

[72] LI, XINYANG, CN

[72] ZHANG, JUNHUI, CN

[72] GU, YUANNING, CN

[72] LI, YAN, CN

[72] AN, JINGYAN, CN

[72] ZHAO, HUI, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] BEIJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[85] 2022-04-28

[86] 2020-10-30 (PCT/CN2020/125279)

[87] (WO2021/083330)

[30] CN (201911049911.2) 2019-10-31

[30] CN (201911049822.8) 2019-10-31

[21] **3,159,749**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **SALTS AND FORMS OF AN ESTROGEN RECEPTOR MODULATOR**

[54] **SELS ET FORMES DU MODULATEUR DU RECEPTEUR DES α STROGENES**

[72] HUANG, PETER QINHUA, US

[72] HEGDE, SAYEE GAJANAN, US

[72] BUNKER, KEVIN DUANE, US

[72] KNIGHT, JOHN, US

[72] SLEE, DEBORAH HELEN, US

[71] RECURIUM IP HOLDINGS, LLC, US

[85] 2022-04-29

[86] 2020-11-02 (PCT/US2020/058526)

[87] (WO2021/091819)

[30] US (62/930,153) 2019-11-04

[21] **3,159,751**
[13] A1

[51] **Int.Cl. C08J 3/20 (2006.01) C08K 5/11 (2006.01) C08L 27/06 (2006.01) C08L 33/12 (2006.01)**

[25] EN

[54] **FUNCTIONALIZED PROCESS AID BLENDS FOR CELLULAR PVC**

[54] **MELANGES D'AUXILIAIRES DE TRANSFORMATION FONCTIONNALISES POUR PVC ALVEOLAIRE**

[72] YOCCA, KEVIN R., US

[72] PETERSON, ERIC J., US

[71] ARKEMA INC., US

[85] 2022-04-29

[86] 2020-10-29 (PCT/US2020/057857)

[87] (WO2021/087041)

[30] US (62/927,736) 2019-10-30

Demandes PCT entrant en phase nationale

[21] **3,159,752**
[13] A1

[51] **Int.Cl. A61K 31/167 (2006.01) A61K 47/18 (2017.01)**

[25] EN

[54] **LOCAL ANESTHETICS WITH SELECTIVE-SENSORY NERVE BLOCKADE**

[54] **ANESTHESIQUES LOCAUX AVEC BLOCAGE NERVEUX SENSORIEL SELECTIF**

[72] KOHANE, DANIEL S., US
[72] ZHENG, YUEQIN, US
[71] CHILDREN'S MEDICAL CENTER CORPORATION, US

[85] 2022-04-29
[86] 2020-10-29 (PCT/US2020/057963)
[87] (WO2021/087113)
[30] US (62/928,177) 2019-10-30
[30] US (62/941,624) 2019-11-27

[21] **3,159,753**
[13] A1

[51] **Int.Cl. A61B 34/30 (2016.01) A61B 34/35 (2016.01) A61B 17/00 (2006.01) A61M 25/01 (2006.01)**

[25] EN

[54] **DEVICE FOR AUTOMATICALLY INSERTING AND MANIPULATING A MEDICAL TOOL INTO AND WITHIN A BODILY LUMEN**

[54] **DISPOSITIF D'INSERTION ET DE MANIPULATION AUTOMATIQUES D'UN OUTIL MEDICAL DANS ET A L'INTERIEUR D'UNE LUMIERE CORPORELLE**

[72] SHARON, SIMON, IL
[72] BOADER, IDAN, IL
[72] KOFMAN, EVGENY, IL
[72] COHEN, ERAN, IL
[72] MORAG, EYAL, IL
[72] GADOT, HAREL, US
[72] SHOHAM, MOSHE, IL
[71] MICROBOT MEDICAL LTD., IL
[71] TECHNION RESEARCH & DEVELOPMENT FOUNDATION LTD., IL

[85] 2022-04-28
[86] 2020-11-26 (PCT/IL2020/051226)
[87] (WO2021/105999)
[30] US (62/941,842) 2019-11-28
[30] US (63/082,508) 2020-09-24

[21] **3,159,754**
[13] A1

[51] **Int.Cl. A61K 35/14 (2015.01) A61K 35/16 (2015.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SEPARATION OF BLOOD COMPONENTS**

[54] **SYSTEME ET PROCEDE DE SEPARATION DE COMPOSANTS SANGUINS**

[72] KING, WILLIAM, US
[72] LEACH, MICHAEL D., US
[71] ZOETIS SERVICES LLC, US

[85] 2022-04-29
[86] 2020-10-30 (PCT/US2020/058112)
[87] (WO2021/087200)
[30] US (16/667,983) 2019-10-30

[21] **3,159,755**
[13] A1

[51] **Int.Cl. A61L 2/18 (2006.01) A61L 9/14 (2006.01) B04C 5/14 (2006.01) B04C 9/00 (2006.01) B05B 17/06 (2006.01)**

[25] EN

[54] **DECONTAMINATION SYSTEM**

[54] **SYSTEME DE DECONTAMINATION**

[72] KAWASAKI, KOJI, JP
[72] SOU, GUN, JP
[72] KITANO, TSUKASA, JP
[72] GUO, ZHIQIANG, JP
[72] FUTAMURA, HARUKA, JP
[72] YAZAKI, YUKIHIRO, JP
[72] KAKUDA, DAISUKE, JP
[72] MASUDOME, JUN, JP
[71] AIREX CO., LTD., JP

[85] 2022-04-28
[86] 2020-10-15 (PCT/JP2020/038956)
[87] (WO2021/090661)
[30] JP (2019-201886) 2019-11-07

[21] **3,159,756**
[13] A1

[51] **Int.Cl. C07C 255/33 (2006.01) C07C 253/00 (2006.01)**

[25] EN

[54] **HIGH PURITY 2-NAPHTHYLACETONITRILE AND METHOD FOR PRODUCING SAME**

[54] **2-NAPHTHYLACETONITRILE DE PURETE ELEVEE ET SON PROCEDE DE PRODUCTION**

[72] NAGAHAMA, MASAKI, JP
[72] OKADO, DAIKI, JP
[72] TANIIKE, HIROTSUGU, JP
[71] API CORPORATION, JP

[85] 2022-04-28
[86] 2020-10-28 (PCT/JP2020/040413)
[87] (WO2021/085468)
[30] JP (2019-196782) 2019-10-29

[21] **3,159,757**
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **SAMPLE COLLECTION DEVICES AND METHODS OF USING THE SAME**

[54] **DISPOSITIFS DE COLLECTE D'ECHANTILLON ET LEURS PROCEDES D'UTILISATION**

[72] HARARI, SHAHAR, IL
[72] SHENHAV, AVSHALOM, IL
[72] GOLDENBERG, NIR, IL
[72] TROMER, DOTAN, IL
[72] HADAS, ARNON, IL
[72] GREENBERG, KOBBI, IL
[71] BOSTON SCIENTIFIC SCIMED, INC., US

[71] THE TRENDLINES GROUP LTD, IL

[85] 2022-04-28
[86] 2020-10-29 (PCT/US2020/058035)
[87] (WO2021/087159)
[30] US (62/929,195) 2019-11-01

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[21] **3,159,758**
[13] A1

[51] **Int.Cl. A45D 29/00 (2006.01) A45D 29/16 (2006.01) A45D 29/18 (2006.01)**

[25] EN

[54] **AUTOMATED TOTAL NAIL CARE SYSTEMS, DEVICES AND METHODS**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE SOINS TOTAUX DES ONGLES AUTOMATISES**

[72] SHASHOU, ALEXANDER, US
[72] EFFRON, JUSTIN, US
[72] GREELEY, GABE, US
[72] WILLIAMS, MARCUS R., US
[72] MATHIEU, MARGARET, US
[72] DRISCOLL, LUCILE, US
[72] LYU, LU, US
[72] SHORTLIDGE, CHARLES C., US
[72] DUERST, PETER, US
[72] STEWART, DOUGLAS, US
[72] CASEY, CHRIS, US
[72] MUTURI, NDUNGU, US
[72] WOOD, RYAN, US
[72] TEOH, ZHI, US
[72] QUINTUS-BOSZ, HARALD, US
[72] GRAY, JESSE, US
[72] BERLIN, MATT, US
[72] KALRA, JUHI, US
[72] NOH, CHRISTINE, US
[72] ZHANG, OLIVER, US
[72] BURKE, WILL, US
[72] EVANS, CHRIS, US
[72] TSE, ALLISON, US
[72] PARKER, ANTHONY, US
[72] MAXWELL, ERIC, US
[72] LAING, GENEVIEVE, US
[71] NAILPRO, INC., US
[85] 2022-04-28
[86] 2020-10-29 (PCT/US2020/058040)
[87] (WO2021/087161)
[30] US (62/927,462) 2019-10-29
[30] US (62/994,933) 2020-03-26

[21] **3,159,759**
[13] A1

[51] **Int.Cl. G01V 99/00 (2009.01) E21B 41/00 (2006.01)**

[25] EN

[54] **SEMI-ELIMINATION METHODOLOGY FOR SIMULATING HIGH FLOW FEATUES IN A RESERVOIR**

[54] **METHODOLOGIE DE SEMI-ELIMINATION PERMETTANT DE SIMULER DES CARACTERISTIQUES D'ECOULEMENT ELEVEES DANS UN RESERVOIR**

[72] YANG, YAHAN, US
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2022-04-29
[86] 2020-11-03 (PCT/US2020/058652)
[87] (WO2021/118714)
[30] US (62/946,555) 2019-12-11

[21] **3,159,760**
[13] A1

[51] **Int.Cl. G16H 40/63 (2018.01) G16H 40/67 (2018.01)**

[25] EN

[54] **MODULAR AUTOMATED PHYSICAL HEALTH TESTING SYSTEMS AND ASSOCIATED DEVICES AND METHODS**

[54] **SYSTEMES DE TEST DE SANTE PHYSIQUE AUTOMATISES MODULAIRES ET DISPOSITIFS ET PROCEDES ASSOCIES**

[72] WALLINGTON, MATTHEW ROBERT, US
[72] RUSH, TRAVIS, US
[71] REPERIO HEALTH, INC., US
[85] 2022-04-28
[86] 2020-10-30 (PCT/US2020/058163)
[87] (WO2021/087231)
[30] US (62/928,146) 2019-10-30

[21] **3,159,761**
[13] A1

[51] **Int.Cl. A45F 3/02 (2006.01) A45F 5/00 (2006.01)**

[25] EN

[54] **HOLDER FOR CONTAINER**

[54] **SUPPORT POUR RECIPIENT**

[72] DOW, JOHN W., US
[72] SULLIVAN, DEREK G., US
[71] YETI COOLERS, LLC, US
[85] 2022-04-29
[86] 2020-11-03 (PCT/US2020/058700)
[87] (WO2021/091894)
[30] US (16/678,546) 2019-11-08

[21] **3,159,762**
[13] A1

[51] **Int.Cl. A63F 9/24 (2006.01)**

[25] EN

[54] **PLAYER DENSITY BASED REGION DIVISION FOR REGIONAL CHAT**

[54] **DIVISION DE REGION BASEE SUR LA DENSITE DE JOUEURS POUR UN DIALOGUE EN LIGNE REGIONAL**

[72] LIU, JIAHUAN, US
[72] WEI, MINGLIANG, US
[72] PINO, DANIEL CASADEVALL, US
[72] JANQID, CHARU, US
[71] NIANTIC, INC., US
[85] 2022-04-29
[86] 2020-10-29 (PCT/IB2020/060189)
[87] (WO2021/090131)
[30] US (16/676,287) 2019-11-06

[21] **3,159,763**
[13] A1

[51] **Int.Cl. C08B 37/00 (2006.01) C08L 5/00 (2006.01) C08L 7/02 (2006.01) C08L 75/04 (2006.01)**

[25] EN

[54] **HIGHLY CRYSTALLINE ALPHA-1,3-GLUCAN**

[54] **ALPHA-1,3-GLUCANE HAUTEMENT CRISTALLIN**

[72] KIM, KYLE HYUN CHANG, US
[72] BRUN, YEFIM, US
[72] IONESCU, LUCIA DANIELA, NL
[72] LONDONO, JUAN DAVID, US
[72] MOK, JORGE, US
[72] OHANE, JAMES JOSHUA, US
[72] TONG, LEMUEL, CA
[71] NUTRITION & BIOSCIENCES USA 4, INC., US
[85] 2022-04-29
[86] 2020-11-05 (PCT/US2020/059187)
[87] (WO2021/092228)
[30] US (62/931,239) 2019-11-06
[30] US (62/931,242) 2019-11-06
[30] US (63/035,978) 2020-06-08
[30] US (63/084,036) 2020-09-28

Demandes PCT entrant en phase nationale

[21] **3,159,765**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23L 7/109 (2016.01) A23L 11/00 (2021.01)**

[25] EN

[54] **SOLID PASTE COMPOSITION FOR COOKING AND METHOD FOR PRODUCING SAME**

[54] **COMPOSITION DE PATE SOLIDE POUR CUISSON ET SON PROCEDE DE PRODUCTION**

[72] HIBI, NARUHIRO, JP
[71] MIZKAN HOLDINGS CO., LTD., JP
[85] 2022-04-29
[86] 2020-07-03 (PCT/JP2020/026288)
[87] (WO2021/084803)
[30] JP (2019-200278) 2019-11-01

[21] **3,159,766**
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/34 (2006.01) A61K 31/351 (2006.01) A61K 31/381 (2006.01) A61K 31/382 (2006.01) A61K 31/397 (2006.01) A61K 31/40 (2006.01) A61K 31/4184 (2006.01) A61K 31/422 (2006.01) A61K 31/427 (2006.01) A61K 31/428 (2006.01) A61K 31/433 (2006.01) A61K 31/4523 (2006.01) A61K 31/5377 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **MRGPRX2 ANTAGONISTS FOR THE TREATMENT OF INFLAMMATORY DISORDERS**

[54] **ANTAGONISTES DE MRGPRX2 POUR LE TRAITEMENT DE TROUBLES INFLAMMATOIRES**

[72] CEVIKBAS, FERDA, US
[72] JARVIS, ASHLEY, US
[72] GLEAVE, LAURA, US
[72] URSINYOVA, NINA CONNELLY, US
[72] CAIN, RICKY, US
[72] YAU, WEI TSUNG, US
[71] DERMIRA, INC., US
[85] 2022-04-29
[86] 2020-11-05 (PCT/US2020/059201)
[87] (WO2021/092240)
[30] US (62/931,183) 2019-11-05
[30] US (62/931,698) 2019-11-06
[30] US (63/046,461) 2020-06-30

[21] **3,159,767**
[13] A1

[51] **Int.Cl. A61K 9/02 (2006.01) A61K 31/18 (2006.01) A61M 31/00 (2006.01)**

[25] EN

[54] **CONTRACEPTIVE MEDICAL DEVICES**

[54] **DISPOSITIFS MEDICAUX CONTRACEPTIFS**

[72] TAYLOR, MICHAEL SCOTT, US
[72] GAERKE, BRIAN, US
[72] GRAVETT, DAVID, US
[72] SOLIANI, ANNA PAOLA, US
[72] GARCIA, KYLE, US
[71] POLY-MED, INC., US
[85] 2022-04-29
[86] 2020-11-11 (PCT/US2020/059968)
[87] (WO2021/096926)
[30] US (62/934,090) 2019-11-12
[30] US (63/019,884) 2020-05-04

[21] **3,159,768**
[13] A1

[51] **Int.Cl. H02K 1/27 (2022.01) H02K 1/30 (2006.01) H02K 3/26 (2006.01) H02K 16/02 (2006.01) H02K 21/24 (2006.01)**

[25] EN

[54] **IMPROVED ROTOR ASSEMBLIES FOR AXIAL FLUX MACHINES**

[54] **ENSEMBLES ROTORS AMELIORES POUR MACHINES A FLUX AXIAL**

[72] MILHEIM, GEORGE HARDER, US
[72] SHAW, STEVEN ROBERT, US
[71] E-CIRCUIT MOTORS, INC., US
[85] 2022-04-29
[86] 2020-11-06 (PCT/US2020/059305)
[87] (WO2021/096767)
[30] US (62/934,059) 2019-11-12
[30] US (17/086,549) 2020-11-02

[21] **3,159,769**
[13] A1

[51] **Int.Cl. A23L 7/122 (2016.01) A23L 29/30 (2016.01) A23P 20/10 (2016.01)**

[25] EN

[54] **ERYTHRITOL AND SUCROSE COATING**

[54] **REVETEMENT D'ERYTHRITOL ET DE SACCHAROSE**

[72] GOEDEKEN, DOUGLAS L., US
[72] WALTHER, GOERAN, US
[72] WHITMAN, SCOTT K., US
[71] GENERAL MILLS, INC., US
[85] 2022-04-29
[86] 2019-11-21 (PCT/US2019/062542)
[87] (WO2021/101545)

[21] **3,159,770**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING HER2 POSITIVE BREAST CANCER WITH TUCATINIB IN COMBINATION WITH AN ANTI-HER2 ANTIBODY-DRUG CONJUGATE**

[54] **METHODES DE TRAITEMENT DU CANCER DU SEIN HER2 POSITIF AVEC DU TUCATINIB EN COMBINAISON AVEC UN CONJUGAISON MEDICAMENT-ANTICORPS ANTI-HER2**

[72] WALKER, LUKE, US
[72] RAMOS, JORGE, US
[72] PARKER, AULMA, US
[72] KULUKIAN, ANITA, US
[71] SEAGEN INC., US
[85] 2022-04-29
[86] 2020-11-13 (PCT/US2020/060431)
[87] (WO2021/097220)
[30] US (62/935,989) 2019-11-15
[30] US (62/945,321) 2019-12-09
[30] US (63/071,800) 2020-08-28

[21] **3,159,772**
[13] A1

[51] **Int.Cl. H01M 8/2485 (2016.01)**

[25] EN

[54] **FUEL CELL ASSEMBLY WITH EXTERNAL MANIFOLD FOR PARALLEL FLOW**

[54] **ENSEMBLE PILE A COMBUSTIBLE A COLLECTEUR EXTERNE POUR ECOULEMENT PARALLELE**

[72] DAVIS, KEITH E., US
[72] NOVACCO, LAWRENCE J., US
[72] HAN, LU, US
[72] O'NEILL, BRANDON J., US
[72] HERSHKOWITZ, FRANK, US
[72] BLANCO GUTIERREZ, RODRIGO F., US

[72] IGCI, YESIM, US
[71] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[71] FUELCELL ENERGY, INC., US
[85] 2022-04-29
[86] 2019-11-26 (PCT/US2019/063291)
[87] (WO2021/107929)
[30] US (16/695,362) 2019-11-26

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[21] **3,159,773**
[13] A1

[51] **Int.Cl. G06Q 20/06 (2012.01) G06Q 20/36 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01)**

[25] EN

[54] **CRYPTOCURRENCY ACCEPTANCE SYSTEM**

[54] **SYSTEME D'ACCEPTATION DE CRYPTOMONNAIE**

[72] KILGORE, ZACHARY, US

[72] SPALDING, TYLER ROBERT, US

[72] FILTER, TREVOR, US

[71] FLEXA NETWORK INC., US

[85] 2022-04-29

[86] 2020-11-17 (PCT/US2020/060894)

[87] (WO2021/108170)

[30] US (16/695,459) 2019-11-26

[21] **3,159,774**
[13] A1

[51] **Int.Cl. H01H 33/66 (2006.01) H02J 50/00 (2016.01) H01H 75/00 (2006.01)**

[25] EN

[54] **SWITCH ASSEMBLY WITH ENERGY HARVESTING**

[54] **ENSEMBLE COMMUTATEUR AVEC COLLECTEUR D'ENERGIE**

[72] BARKER, JIM, US

[72] MARONEY, MICHAEL, US

[72] BENSON, KEITH, US

[72] SENG, NICHOLAS, US

[72] BOGUSZ, JASON, US

[72] MCDEARMON, BETHANY, US

[72] TAJFAR, ALIREZA, US

[72] MONTENEGRO, ALEJANDRO, US

[71] S&C ELECTRIC COMPANY, US

[85] 2022-04-29

[86] 2020-12-01 (PCT/US2020/062727)

[87] (WO2021/113253)

[30] US (62/944,301) 2019-12-05

[21] **3,159,775**
[13] A1

[51] **Int.Cl. A61M 1/36 (2006.01) A61M 1/14 (2006.01) A61M 1/20 (2006.01)**

[25] EN

[54] **FLOW CHAMBER WITH HELICAL FLOW PATH**

[54] **CHAMBRE D'ECOULEMENT A CHEMIN D'ECOULEMENT HELICOIDAL**

[72] HERNANDEZ GOMEZ, IRVING UZIEL, US

[72] SUAREZ DEL REAL PENA, DIEGO, US

[72] ALMEIDA SANDOVAL, PEDRO, US

[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US

[85] 2022-04-29

[86] 2020-12-02 (PCT/US2020/062825)

[87] (WO2021/126528)

[30] US (16/717,221) 2019-12-17

[21] **3,159,777**
[13] A1

[51] **Int.Cl. A61K 31/095 (2006.01) A61K 31/7135 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07F 3/00 (2006.01)**

[25] EN

[54] **TETRAHYDROCURCUMINOID-METAL COMPLEXES, MANUFACTURING METHODS THEREOF, AND USES THEREOF**

[54] **COMPLEXES TETRAHYDROCURCUMINOIDE-METAL, LEURS PROCEDES DE FABRICATION ET LEURS UTILISATIONS**

[72] DUBOURDIEU, DANIEL J., US

[72] LALL, RAJIV, US

[71] PROBIOTICSMART, LLC, US

[85] 2022-04-29

[86] 2021-05-13 (PCT/US2021/032242)

[87] (WO2021/231721)

[30] US (63/024,904) 2020-05-14

[30] US (63/119,719) 2020-12-01

[21] **3,159,780**
[13] A1

[51] **Int.Cl. A61M 39/12 (2006.01) A61M 39/10 (2006.01) A61M 39/22 (2006.01) A61M 39/24 (2006.01) A61M 39/26 (2006.01)**

[25] EN

[54] **SANITARY FITTING**

[54] **RACCORD SANITAIRE**

[72] HEIGHES, TYLER, US

[72] CICCONE, PAUL C., US

[71] WILMARC HOLDINGS, LLC, US

[85] 2022-04-29

[86] 2021-06-30 (PCT/US2021/039874)

[87] (WO2022/006263)

[30] US (16/917,535) 2020-06-30

[21] **3,159,781**
[13] A1

[51] **Int.Cl. A23C 19/082 (2006.01) A23C 19/093 (2006.01)**

[25] EN

[54] **PROCESS FOR PASTEURISING CHEESE**

[54] **PROCESSUS DE PASTEURISATION DE FROMAGE**

[72] KILROY, STANLEY, AU

[71] FOOD MECHANIQUE AUSTRALIA PTY LIMITED, AU

[85] 2022-05-02

[86] 2020-12-17 (PCT/AU2020/051386)

[87] (WO2021/119746)

[30] AU (2019904798) 2019-12-18

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[21] **3,159,782**
[13] A1

[51] **Int.Cl. C12M 3/00 (2006.01) C12N 5/071 (2010.01) C12N 5/09 (2010.01) C12Q 1/6809 (2018.01) C12N 5/00 (2006.01) C12Q 1/02 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **CUSTOMAZIBLE 3D CELL CULTURE SYSTEM COMPRISING HYDROGEL-EMBEDDED CELLS AND USES THEREOF**

[54] **SYSTEME DE CULTURE CELLULAIRE 3D PERSONNALISABLE COMPRENANT DES CELLULES INCORPOREES DANS UN HYDROGEL ET UTILISATIONS ASSOCIEES**

[72] AJJI, ABDELLAH, CA
[72] NISOL, BERNARD, CA
[72] ROSENZWEIG, DEREK HADAR, CA
[72] WERTHEIMER, MICHAEL ROBERT, CA
[72] MOHSENI GARAKANI, MANSOUREH, CA
[71] POLYVALOR, LIMITED PARTNERSHIP, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[85] 2022-05-02
[86] 2020-11-06 (PCT/CA2020/051505)
[87] (WO2021/087613)
[30] US (62/932,759) 2019-11-08

[21] **3,159,783**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 47/00 (2006.01) A61P 35/00 (2006.01) C07J 43/00 (2006.01)**

[25] EN

[54] **FORMULATED AND/OR CO-FORMULATED LIPOSOME COMPOSITIONS CONTAINING IDO ANTAGONIST PRODRUGS USEFUL IN TREATMENT OF CANCER AND METHODS THEREOF**

[54] **COMPOSITIONS LIPOSOMALES FORMULEES ET/OU CO-FORMULEES CONTENANT DES PROMEDICAMENTS ANTAGONISTES D'IDO UTILES DANS LE TRAITEMENT DU CANCER ET METHODES ASSOCIEES**

[72] STOVER, DAVID, US
[72] BHARALI, DHRUBA, US
[72] HAY, BRUCE A., US
[72] SAFAIE, TAHMINEH, US
[71] NAMMI THERAPEUTICS, INC., US
[85] 2022-04-29
[86] 2020-11-12 (PCT/US2020/000044)
[87] (WO2021/096542)
[30] US (62/974,086) 2019-11-12

[21] **3,159,786**
[13] A1

[51] **Int.Cl. G16B 20/10 (2019.01)**

[25] EN

[54] **APPLICATION OF MOSAICISM RATIO IN MULTIFETAL GESTATIONS AND PERSONALIZED RISK ASSESSMENT**

[54] **APPLICATION D'UN RAPPORT DU MOSAICISME DANS DES GESTATIONS MULTIFETALES ET EVALUATION DE RISQUE PERSONNALISE**

[72] RAFALKO, JILL, US
[72] BOOMER, THERESA, US
[72] CHIBUK, JASON, US
[72] CALDWELL, SAMANTHA, US
[72] TYNAN, JOHN A., US
[72] ALMASRI, EYAD, US
[72] MCCULLOUGH, RONALD MICHAEL, US
[71] SEQUENOM, INC., US
[85] 2022-04-29
[86] 2020-11-02 (PCT/US2020/058608)
[87] (WO2021/087491)
[30] US (62/928,674) 2019-10-31
[30] US (63/043,330) 2020-06-24

[21] **3,159,785**
[13] A1

[51] **Int.Cl. G06Q 30/02 (2012.01)**

[25] EN

[54] **DATA PARSING METHOD BASED ON REGIONALIZED MEMBERSHIP MARKETING SCENE, SYSTEM AND COMPUTER EQUIPMENT**

[54] **METHODE D'ANALYSE DE DONNEES FONDEE SUR LE MILIEU DE MARKETING DES ABONNES PAR REGION, SYSTEME ET MATERIEL INFORMATIQUE**

[72] SHU, WENXIN, CN
[72] CUI, JIANMEI, CN
[72] LI, CHENG, CN
[72] PENG, HU, CN
[72] SUN, QIAN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-05-02
[86] 2020-07-29 (PCT/CN2020/105640)
[87] (WO2021/088434)
[30] CN (201911066148.4) 2019-11-04

PCT Applications Entering the National Phase

[21] **3,159,787**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/44 (2020.01) A24F 40/65 (2020.01)**

[25] EN

[54] **VAPORIZER DEVICE**

[54] **DISPOSITIF VAPORISATEUR**

[72] ATKINS, ARIEL, US

[72] BELT, MACKENZIE PAIGE, US

[72] BELISLE, CHRISTOPHER L., US

[72] CHANG, TSUEY CHOO LILY, US

[72] CHEUNG, BRANDON, US

[72] CHRISTENSEN, STEVEN, US

[72] ENTELIS, DYLAN E., US

[72] HATTON, NICHOLAS J., US

[72] HOOPAI, ALEXANDER M., US

[72] JOHNSON, ERIC JOSEPH, US

[72] KING, JASON, US

[72] LEON DUQUE, ESTEBAN, US

[72] LI, YONGCHAO, US

[72] LIANG, HUEI-HUEI, US

[72] LOMELI, KEVIN, US

[72] MALONE, MATTHEW J., US

[72] MONSEES, JAMES, US

[72] NG, NATHAN N., US

[72] O'MALLEY, CLAIRE, US

[72] RIOS, MATTHEW, US

[72] ROSSER, CHRISTOPHER JAMES, GB

[72] SCOTT, ZACHARY T., US

[72] SHAH, NIHIR B., US

[72] STRATTON, ANDREW J., GB

[72] THAWER, ALIM, GB

[72] VALENTINE, VAL, US

[72] WESELY, NORBERT, GB

[72] WESTLEY, JAMES P., GB

[72] YIN, HAO, US

[72] ZHANG, XUEHAI, US

[72] ZHANG, XUEQING, US

[71] JUUL LABS, INC., US

[85] 2022-04-29

[86] 2020-11-04 (PCT/US2020/058947)

[87] (WO2021/092063)

[30] US (62/930,508) 2019-11-04

[30] US (62/947,496) 2019-12-12

[30] US (62/981,498) 2020-02-25

[30] US (16/805,672) 2020-02-28

[30] US (63/108,874) 2020-11-03

[21] **3,159,788**
[13] A1

[51] **Int.Cl. G06F 8/71 (2018.01) G06F 8/658 (2018.01)**

[25] EN

[54] **VERSION RELEASING METHOD AND DEVICE BASED ON MULTI-ENVIRONMENT OFFLINE TASK**

[54] **PROCEDE ET DISPOSITIF DE PUBLICATION DE VERSION REPOSANT SUR UNE TACHE HORS LIGNE MULTI-ENVIRONNEMENT**

[72] CAO, HAIYANG, CN

[72] XU, WEI, CN

[72] WANG, ZHENZHEN, CN

[72] LI, CHENG, CN

[71] 10353744 CANADA LTD., CA

[85] 2022-05-02

[86] 2020-07-30 (PCT/CN2020/105994)

[87] (WO2021/088437)

[30] CN (201911076524.8) 2019-11-06

[21] **3,159,789**
[13] A1

[51] **Int.Cl. C07D 251/70 (2006.01) C08K 5/3492 (2006.01)**

[25] EN

[54] **COMPOUND HAVING ANTI-AGING AND DISCOLORATION RESISTANCE EFFECTS AND PREPARATION METHOD THEREFOR**

[54] **COMPOSE AYANT DES EFFETS ANTI-VIEILLISSEMENT ET DE RESISTANCE A LA DECOLORATION ET SON PROCEDE DE PREPARATION**

[72] GUO, XIANGYUN, CN

[72] XING, JINGUO, CN

[72] LIU, YANXIANG, CN

[72] LI, HUI, CN

[72] GAO, YANG, CN

[72] TANG, ZHIMIN, CN

[72] ZHU, HAIBO, CN

[72] QI, QI, CN

[71] SENNICCS CO., LTD., CN

[85] 2022-05-02

[86] 2020-10-30 (PCT/CN2020/125100)

[87] (WO2021/088721)

[30] CN (201911066120.0) 2019-11-04

[21] **3,159,790**
[13] A1

[51] **Int.Cl. G06T 19/20 (2011.01)**

[25] EN

[54] **AN IMAGE SYNTHESIS SYSTEM AND METHOD THEREFOR**

[54] **SYSTEME DE SYNTHESE D'IMAGE ET PROCEDE ASSOCIE**

[72] VAREKAMP, CHRISTIAAN, NL

[72] VAN GEEST, BARTHOLOMEUS WILHELMUS DAMIANUS, NL

[71] KONINKLIJKE PHILIPS N.V., NL

[85] 2022-05-02

[86] 2020-10-23 (PCT/EP2020/079864)

[87] (WO2021/089340)

[30] EP (19207149.6) 2019-11-05

[21] **3,159,791**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 35/00 (2006.01) C07D 487/14 (2006.01)**

[25] EN

[54] **NOVEL COMPOUND AND PHARMACEUTICAL COMPOSITION FOR PREVENTION OR TREATMENT OF CANCER COMPRISING SAME**

[54] **NOUVEAU COMPOSE ET COMPOSITION PHARMACEUTIQUE LE COMPRENANT POUR PREVENIR OU TRAITER UN CANCER**

[72] YUN, YEO JIN, KR

[72] LEE, IN HYE, KR

[71] HOLOSMEDIC, KR

[85] 2022-04-29

[86] 2020-10-29 (PCT/KR2020/014884)

[87] (WO2021/086038)

[30] US (62/928,398) 2019-10-31

[21] **3,159,792**
[13] A1

[51] **Int.Cl. H02J 50/00 (2016.01)**

[25] EN

[54] **ENERGY GENERATION FROM TINY SOURCES**

[54] **PRODUCTION D'ENERGIE A PARTIR DE TRES PETITES SOURCES**

[72] TEEPE, GERD, DE

[71] CELTRO GMBH, DE

[85] 2022-05-02

[86] 2020-11-03 (PCT/EP2020/080791)

[87] (WO2021/089530)

[30] EP (19206852.6) 2019-11-04

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[21] **3,159,793**
[13] A1

[51] **Int.Cl. H04N 19/61 (2014.01) H04N 19/11 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **TRANSFORM-BASED IMAGE CODING METHOD AND DEVICE THEREFOR**

[54] **PROCEDE DE CODAGE D'IMAGE BASE SUR UNE TRANSFORMEE ET DISPOSITIF ASSOCIE**

[72] KOO, MOONMO, KR

[72] JANG, HYEONGMOON, KR

[72] KIM, SEUNGHWAN, KR

[72] LIM, JAEHYUN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-04-29

[86] 2020-10-29 (PCT/KR2020/014915)

[87] (WO2021/086056)

[30] US (62/927,663) 2019-10-29

[21] **3,159,796**
[13] A1

[51] **Int.Cl. H04N 19/61 (2014.01) H04N 19/11 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **IMAGE CODING METHOD BASED ON TRANSFORM AND APPARATUS THEREFOR**

[54] **PROCEDE DE CODAGE D'IMAGES BASE SUR UNE TRANSFORMEE ET DISPOSITIF ASSOCIE**

[72] KOO, MOONMO, KR

[72] JANG, HYEONGMOON, KR

[72] KIM, SEUNGHWAN, KR

[72] LIM, JAEHYUN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-04-29

[86] 2020-10-29 (PCT/KR2020/014924)

[87] (WO2021/086061)

[30] US (62/927,668) 2019-10-29

[21] **3,159,801**
[13] A1

[51] **Int.Cl. H04N 19/61 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **IMAGE CODING METHOD BASED ON TRANSFORM, AND DEVICE THEREFOR**

[54] **PROCEDE DE CODAGE D'IMAGE BASE SUR UNE TRANSFORMEE, ET DISPOSITIF ASSOCIE**

[72] KOO, MOONMO, KR

[72] KIM, SEUNGHWAN, KR

[72] LIM, JAEHYUN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-04-29

[86] 2020-11-02 (PCT/KR2020/015135)

[87] (WO2021/086149)

[30] US (62/929,767) 2019-11-01

[21] **3,159,794**
[13] A1

[51] **Int.Cl. H02J 50/00 (2016.01) A61N 1/378 (2006.01) A61N 1/362 (2006.01) A61N 1/375 (2006.01)**

[25] EN

[54] **SELF-SUFFICIENT CARDIAC PACEMAKER**

[54] **STIMULATEUR CARDIAQUE AUTO-SUFFISANT**

[72] TEEPE, GERD, DE

[71] CELTRO GMBH, DE

[85] 2022-05-02

[86] 2020-11-03 (PCT/EP2020/080792)

[87] (WO2021/089531)

[30] EP (19206852.6) 2019-11-04

[21] **3,159,798**
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01) A23L 33/135 (2016.01) A61P 25/00 (2006.01) C12N 1/20 (2006.01)**

[25] EN

[54] **SEROTONIN PRODUCING BACTERIA**

[54] **BACTERIES PRODUISANT DE LA SEROTONINE**

[72] GRASSET, ESTELLE, FR

[72] KHAN, MUHAMMAD, SE

[72] MOLLSTAM, BO, SE

[72] ROOS, STEFAN, SE

[71] BIOGAIA AB, SE

[85] 2022-04-29

[86] 2020-11-06 (PCT/SE2020/051075)

[87] (WO2021/091474)

[30] SE (1951292-0) 2019-11-08

[21] **3,159,803**
[13] A1

[51] **Int.Cl. H04N 19/60 (2014.01) H04N 19/122 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01) H04N 19/96 (2014.01)**

[25] EN

[54] **TRANSFORM-BASED IMAGE CODING METHOD AND DEVICE FOR SAME**

[54] **PROCEDE DE CODAGE D'IMAGE REPOSANT SUR UNE TRANSFORMEE ET DISPOSITIF ASSOCIE**

[72] KOO, MOONMO, KR

[72] KIM, SEUNGHWAN, KR

[72] LIM, JAEHYUN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-04-29

[86] 2020-11-02 (PCT/KR2020/015143)

[87] (WO2021/086151)

[30] US (62/929,765) 2019-11-01

[21] **3,159,795**
[13] A1

[25] EN

[54] **NEURAL NETWORK FOR BULK SORTING**

[54] **RESEAU DE NEURONES POUR TRI EN VRAC**

[72] BENDER, DANIEL, DE

[72] SCHMITT, FRANK, DE

[72] BALTHASAR, DIRK, DE

[71] TOMRA SORTING GMBH, DE

[85] 2022-05-02

[86] 2020-11-04 (PCT/EP2020/080926)

[87] (WO2021/089602)

[30] EP (19206887.2) 2019-11-04

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[21] **3,159,806**
[13] A1

[51] **Int.Cl. H04N 19/60 (2014.01) H04N 19/119 (2014.01) H04N 19/122 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/186 (2014.01) H04N 19/70 (2014.01) H04N 19/96 (2014.01)**

[25] EN

[54] **TRANSFORM-BASED METHOD FOR CODING IMAGE, AND DEVICE THEREFOR**

[54] **PROCEDE A BASE DE TRANSFORMEE PERMETTANT DE CODER UNE IMAGE, ET DISPOSITIF ASSOCIE**

[72] KOO, MOONMO, KR

[72] KIM, SEUNGHWAN, KR

[72] LIM, JAEHYUN, KR

[71] LG ELECTRONICS INC., KR

[85] 2022-04-29

[86] 2020-11-02 (PCT/KR2020/015144)

[87] (WO2021/086152)

[30] US (62/929,762) 2019-11-01

[21] **3,159,807**
[13] A1

[51] **Int.Cl. E01C 7/14 (2006.01) E01C 7/12 (2006.01) E01C 11/22 (2006.01)**

[25] EN

[54] **A JOINTLESS CONCRETE COMPOSITE PAVEMENT**

[54] **CHAUSSÉE COMPOSITE EN BETON SANS JOINT**

[72] CEPURITIS, ROLANDS, LV

[72] OSLEJS, JANIS, LV

[72] ZEGELIS, ALDIS, LV

[72] KAMARS, JANIS, LV

[72] PEASE, BRADLEY JUSTIN, CA

[71] PRIMETEH, AS, LV

[85] 2022-04-29

[86] 2020-09-14 (PCT/LV2020/050004)

[87] (WO2021/025548)

[30] LV (P-19-62) 2019-11-19

[21] **3,159,808**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **BCMA-TARGETED CAR-T CELL THERAPY OF MULTIPLE MYELOMA**

[54] **THERAPIE DU MYELOME MULTIPLE BASEE SUR DES CELLULES CAR-T CIBLEES PAR BCMA**

[72] ZUDAIRE UBANI, ENRIQUE, US

[71] JANSSEN BIOTECH, INC., US

[85] 2022-05-02

[86] 2020-11-04 (PCT/US2020/058788)

[87] (WO2021/091945)

[30] US (62/931,065) 2019-11-05

[30] US (62/943,627) 2019-12-04

[21] **3,159,897**
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01) A47J 31/46 (2006.01)**

[25] EN

[54] **BEVERAGE MACHINE WITH AN OFF-SET ACTUATOR**

[54] **MACHINE A BOISSON AVEC ACTIONNEUR A DECALAGE**

[72] ESCALIER, THIBAUT, FR

[72] PERENTES, ALEXANDRE, CH

[72] PUGLIESE, ALEXANDRE, CH

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

[85] 2022-04-28

[86] 2020-12-15 (PCT/EP2020/086062)

[87] (WO2021/122493)

[30] EP (19216361.6) 2019-12-16

[21] **3,159,898**
[13] A1

[51] **Int.Cl. C08G 69/26 (2006.01) B65D 1/00 (2006.01) C08G 69/14 (2006.01) C08K 11/00 (2006.01) C08L 77/06 (2006.01)**

[25] EN

[54] **RECYCLABLE, SEALABLE PACKAGING**

[54] **EMBALLAGE RECYCLABLE A CAPACITE DE SCELLEMENT**

[72] ALFONSO ALEGRE, MARIA JOSE, ES

[72] ZAGALAZ LASIERRA, PATRICIA, ES

[72] CABALLERO LOPEZ, MIGUEL ANGEL, ES

[71] SOCIEDAD ANONIMA MINERA CATALANO ARAGONESA, ES

[85] 2022-04-28

[86] 2020-01-20 (PCT/ES2020/070040)

[87] (WO2021/148685)

[21] **3,159,900**
[13] A1

[51] **Int.Cl. E04F 21/22 (2006.01) E04F 15/02 (2006.01)**

[25] EN

[54] **FLOOR TILE LEVELLING DEVICE**

[54] **DISPOSITIF NIVELEUR DE CARRELAGES**

[72] QUESADA BARBERO, JUAN ANTONIO, ES

[71] GERMANS BOADA, S.A., ES

[85] 2022-04-28

[86] 2020-08-03 (PCT/ES2020/070501)

[87] (WO2022/029341)

[21] **3,159,901**
[13] A1

[51] **Int.Cl. A61B 6/02 (2006.01) A61B 6/00 (2006.01)**

[25] EN

[54] **A METHOD OF OBTAINING X-RAY IMAGES**

[54] **PROCEDE D'OBTENTION D'IMAGES RADIOGRAPHIQUES**

[72] TRAVISH, GIL, GB

[72] EVANS, MARK, GB

[71] ADAPTIX LTD, GB

[85] 2022-04-28

[86] 2020-11-12 (PCT/GB2020/052880)

[87] (WO2021/094758)

[30] GB (1916450.8) 2019-11-12

Demandes PCT entrant en phase nationale

[21] **3,159,902**
[13] A1

[51] **Int.Cl. C12N 15/67 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF DOUBLE-STRANDED RNA**
[54] **PROCEDE DE PRODUCTION D'ARN DOUBLE BRIN**
[72] DAROS ARNAU, JOSE ANTONIO, ES
[72] ORTOLA NAVARRO, BELTRAN, ES
[72] CORDERO CUCART, MARIA TERESA, ES
[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, ES
[71] UNIVERSITAT POLITECNICA DE VALENCIA, ES
[85] 2022-04-28
[86] 2020-11-13 (PCT/EP2020/082018)
[87] (WO2021/094511)
[30] EP (19382997.5) 2019-11-13

[21] **3,159,904**
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **MULTISPECIFIC ANTIBODY**
[54] **ANTICORPS MULTISPECIFIQUES**
[72] URECH, DAVID, CH
[72] HESS, CHRISTIAN, CH
[72] SIMONIN, ALEXANDRE, FR
[72] WARMUTH, STEFAN, CH
[71] NUMAB THERAPEUTICS AG, CH
[85] 2022-05-02
[86] 2020-11-04 (PCT/EP2020/080941)
[87] (WO2021/089609)
[30] EP (19206959.9) 2019-11-04

[21] **3,159,905**
[13] A1

[51] **Int.Cl. A23L 2/54 (2006.01) A47J 31/40 (2006.01) B67D 1/04 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PRODUCING A CARBONATED BEVERAGE**
[54] **PROCEDE ET DISPOSITIF DE PRODUCTION D'UNE BOISSON GAZEUSE**
[72] KRUGER, MARC, DE
[72] EMPL, GUNTER, DE
[72] FISCHER, DANIEL, CH
[72] SONDEREGGER, REMO, CH
[71] FREEZIO AG, CH
[85] 2022-05-02
[86] 2020-11-04 (PCT/EP2020/080961)
[87] (WO2021/089621)
[30] DE (10 2019 217 331.4) 2019-11-08

[21] **3,159,906**
[13] A1

[51] **Int.Cl. A61K 31/7034 (2006.01) A61P 31/04 (2006.01) C07H 15/203 (2006.01)**
[25] EN
[54] **BIVALENT LECA INHIBITORS TARGETING BIOFILM FORMATION OF PSEUDOMONAS AERUGINOSA**
[54] **INHIBITEURS BIVALENTS DE LECA CIBLANT LA FORMATION DE BIOFILM DE PSEUDOMONAS AERUGINOSA**
[72] TITZ, ALEXANDER, DE
[72] ZAHORSKA, EVA, DE
[72] MINERVINI, SAVERIO, DE
[72] IMBERTY, ANNE, FR
[72] KUHAUDOMLARP, SAKONWAN, FR
[71] HELMHOLTZ-ZENTRUM FUR INFektionsFORSCHUNG GMBH, DE
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE DIRECTION DE LA POLITIQUE INDUSTRIELLE, FR
[85] 2022-05-02
[86] 2020-11-05 (PCT/EP2020/081182)
[87] (WO2021/089729)
[30] EP (19306432.6) 2019-11-05

[21] **3,159,907**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) C07K 14/005 (2006.01)**
[25] EN
[54] **PROTEIN PURIFICATION**
[54] **PURIFICATION DE PROTEINES**
[72] POLILLI, BRIAN, NL
[72] RODE, CHRISTOPHER, NL
[72] SCHREFFLER, JOHN, NL
[71] JANSSEN VACCINES & PREVENTION B.V., NL
[85] 2022-05-02
[86] 2020-11-06 (PCT/EP2020/081271)
[87] (WO2021/089770)
[30] US (62/932,180) 2019-11-07
[30] US (63/105,664) 2020-10-26

[21] **3,159,908**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **IRON-SCORE AND IN VITRO METHOD FOR IDENTIFYING HIGH RISK DLBCL SUBJECTS AND THERAPEUTIC USES AND METHODS**
[54] **METHODE IN VITRO ET SCORE EN FER POUR IDENTIFIER DES SUJETS ATTEINTS DE DLBCL A HAUT RISQUE ET UTILISATIONS THERAPEUTIQUES ET METHODES**
[72] MOREAUX, JEROME, FR
[72] RODRIGUEZ, RAPHAEL, FR
[72] DEVIN, JULIE, FR
[72] BRET, CAROLINE, FR
[72] CANEQUE COBO, TATIANA, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE MONTPELLIER, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] UNIVERSITE DE MONTPELLIER, FR
[71] INSTITUT CURIE, FR
[85] 2022-05-02
[86] 2020-11-06 (PCT/EP2020/081349)
[87] (WO2021/089819)
[30] EP (19306436.7) 2019-11-06

PCT Applications Entering the National Phase

[21] **3,159,909**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **IRON-SCORE AND IN VITRO METHOD FOR IDENTIFYING MANTLE CELL LYMPHOMA (MCL) SUBJECTS AND THERAPEUTIC USES AND METHODS**

[54] **PROCEDE IN VITRO ET SCORE EN FER POUR IDENTIFIER DES SUJETS ATTEINTS D'UN LYMPHOME A CELLULES DU MANTEAU (LCM) ET UTILISATIONS THERAPEUTIQUES ET PROCEDES**

[72] MOREAUX, JEROME, FR
[72] RODRIGUEZ, RAPHAEL, FR
[72] DEVIN, JULIE, FR
[72] BRET, CAROLINE, FR
[72] CANEQUE COBO, TATIANA, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE MONTPELLIER, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] UNIVERSITE DE MONTPELLIER, FR
[71] INSTITUT CURIE, FR
[85] 2022-05-02
[86] 2020-11-06 (PCT/EP2020/081352)
[87] (WO2021/089821)
[30] EP (19306436.7) 2019-11-06

[21] **3,159,910**
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) C22B 15/00 (2006.01) C22B 15/06 (2006.01)**
[25] EN
[54] **IMPROVED COPPER SMELTING PROCESS**

[54] **PROCEDE DE FUSION DE CUIVRE AMELIORE**

[72] GUNS, WALTER, BE
[72] MOLLEN, NIKO, BE
[72] COLETTI, BERT, BE
[72] SMETS, STEVEN, BE
[72] BREUGELMANS, ANDY, BE
[72] GORIS, JAN DIRK A., BE
[72] DE VISSCHER, YVES, BE
[72] GEENEN, CHARLES, BE
[71] AURUBIS BEERSE, BE
[85] 2022-05-02
[86] 2020-11-20 (PCT/EP2020/082826)
[87] (WO2021/099538)
[30] EP (19210921.3) 2019-11-22

[21] **3,159,911**
[13] A1

[51] **Int.Cl. F27D 3/16 (2006.01) C21B 3/06 (2006.01) C21B 13/00 (2006.01) C21B 13/12 (2006.01) C22B 4/00 (2006.01) C22B 5/16 (2006.01) C22B 7/00 (2006.01) C22B 7/04 (2006.01) F27B 3/22 (2006.01) F27D 7/02 (2006.01) F27D 17/00 (2006.01)**
[25] EN
[54] **IMPROVED PLASMA INDUCED FUMING FURNACE**

[54] **FOUR DE VOLATILISATION INDUITE PAR PLASMA AMELIORE**

[72] CHINTINNE, MATHIAS, BE
[72] DE VISSCHER, YVES, BE
[72] GEENEN, CHARLES, BE
[72] COLETTI, BERT, BE
[71] AURUBIS BEERSE, BE
[85] 2022-05-02
[86] 2020-11-20 (PCT/EP2020/082953)
[87] (WO2021/099598)
[30] EP (19210907.2) 2019-11-22

[21] **3,159,912**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 7/00 (2006.01) C07K 14/535 (2006.01)**
[25] EN
[54] **NOVEL G-CSF MIMICS AND THEIR APPLICATIONS**

[54] **NOUVELLES IMITATIONS DE G-CSF ET LEURS APPLICATIONS**

[72] ELGAMACY, MOHAMMAD, DE
[72] HERNANDEZ ALVAREZ, BIRTE, DE
[72] SKOKOWA, YULIA, DE
[71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE
[71] EBERHARD KARLS UNIVERSITAT TUBINGEN, DE
[85] 2022-05-02
[86] 2020-12-17 (PCT/EP2020/086843)
[87] (WO2021/123033)
[30] EP (19217185.8) 2019-12-17

[21] **3,159,913**
[13] A1

[51] **Int.Cl. C12N 15/861 (2006.01) A61K 35/761 (2015.01) C07K 14/075 (2006.01) C12N 7/01 (2006.01) C12N 15/34 (2006.01) C12N 15/62 (2006.01) A61K 39/015 (2006.01)**
[25] EN
[54] **VIRUSES WITH MODIFIED CAPSID PROTEINS**

[54] **VIRUS A PROTEINES CAPSIDIQUES MODIFIEES**

[72] DICKS, MATTHEW, GB
[72] HOWARTH, MARK, GB
[72] BISWAS, SUMI, GB
[71] SPYBIOTECH LIMITED, GB
[85] 2022-05-02
[86] 2020-11-02 (PCT/GB2020/052774)
[87] (WO2021/084282)
[30] GB (1915905.2) 2019-11-01

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[21] **3,159,914**
[13] A1

[51] **Int.Cl. C10B 53/07 (2006.01) C10B 55/10 (2006.01) C10G 1/10 (2006.01)**
[25] EN
[54] **CO-PROCESSING OF WASTE PLASTIC IN COKERS**
[54] **CO-TRAITEMENT DE DECHETS PLASTIQUES DANS DES UNITES DE COKEFACTION**
[72] HARANDI, MOHSEN N., US
[72] PATEL, BRYAN A., US
[72] SMILEY, RANDOLPH J., US
[72] GROS, LAWRENCE R., US
[71] EXXONMOBIL CHEMICAL PATENTS INC., US
[85] 2022-05-02
[86] 2020-10-27 (PCT/US2020/057478)
[87] (WO2021/091724)
[30] US (62/930,844) 2019-11-05

[21] **3,159,915**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/127 (2006.01)**
[25] EN
[54] **PH RESPONSIVE BLOCK COPOLYMER COMPOSITIONS, MICELLES, AND METHODS OF USE**
[54] **COMPOSITIONS DE COPOLYMER SEQUENCE SENSIBLE AU PH, MICELLES ET METHODES D'UTILISATION**
[72] ZHAO, TIAN, US
[72] DING, XINLIANG, US
[72] MILLER, JASON, US
[72] CAMPBELL, ASHLEY, US
[72] BHARADWAJ, GAURAV, US
[72] GUTOWSKI, STEPHEN, US
[72] ROBINSON, DREW, US
[71] ONCONANO MEDICINE, INC., US
[85] 2022-05-02
[86] 2020-11-03 (PCT/US2020/058752)
[87] (WO2021/091924)
[30] US (62/930,530) 2019-11-04

[21] **3,159,916**
[13] A1

[51] **Int.Cl. B01J 21/12 (2006.01) B01J 23/28 (2006.01) B01J 23/30 (2006.01) B01J 23/38 (2006.01) B01J 23/75 (2006.01) B01J 23/755 (2006.01) B01J 29/06 (2006.01) B01J 29/08 (2006.01) B01J 29/70 (2006.01) B01J 29/78 (2006.01) B01J 35/02 (2006.01) B01J 35/10 (2006.01) B01J 37/02 (2006.01) B01J 37/04 (2006.01) B01J 37/08 (2006.01) C10G 45/04 (2006.01) C10G 45/46 (2006.01) C10G 47/02 (2006.01)**
[25] EN
[54] **SILICA-ALUMINA COMPOSITE MATERIALS FOR HYDROPROCESSING APPLICATIONS**
[54] **MATERIAUX COMPOSITES SILICE-ALUMINE POUR APPLICATIONS D'HYDROTRAITEMENT**
[72] LIANG, ANN, US
[72] OTTO, TRENTON J., US
[72] JIA, JIFEI, US
[72] JIAO, LING, US
[72] LE, BAO Q., US
[72] CHAUDHURI, KAUSTAV, US
[72] ZHAN, BI-ZENG, US
[71] CHEVRON U.S.A. INC., US
[85] 2022-05-02
[86] 2020-11-04 (PCT/US2020/058797)
[87] (WO2021/091952)
[30] US (62/930,297) 2019-11-04

[21] **3,159,917**
[13] A1

[51] **Int.Cl. C12N 5/078 (2010.01)**
[25] EN
[54] **METHODS OF GENERATING ENUCLEATED ERYTHROID CELLS USING MYO-INOSITOL**
[54] **PROCEDES DE GENERATION DE CELLULES ERYTHROIDES ENUCLEES A L'AIDE DE MYO-INOSITOL**
[72] LAW, BILLY, US
[72] GILBERT, ALAN BENJAMIN, US
[71] RUBIUS THERAPEUTICS, INC., US
[85] 2022-05-02
[86] 2020-11-04 (PCT/US2020/058935)
[87] (WO2021/092052)
[30] US (62/930,506) 2019-11-04

[21] **3,159,918**
[13] A1

[51] **Int.Cl. B32B 9/00 (2006.01) B32B 17/06 (2006.01) C09K 3/00 (2006.01)**
[25] EN
[54] **ILLUMINATED FIBER-BASED VEHICLE TRIM COMPONENTS AND FLOORING**
[54] **COMPOSANTS DE GARNITURE DE VEHICULE A BASE DE FIBRES ECLAIREES ET REVETEMENT DE SOL**
[72] RAUCH, SASCHA, DE
[72] HILBERT, PHILIPP, DE
[72] SYMKENBERG, GERRIT, DE
[72] MUELLER, MICHAEL, DE
[71] AURIA SOLUTIONS UK I LTD., GB
[85] 2022-05-02
[86] 2020-11-04 (PCT/US2020/058938)
[87] (WO2021/092055)

[21] **3,159,919**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01)**
[25] EN
[54] **AN IMPROVED LARGE SCALE IMMUNOMAGNETIC SEPARATION DEVICE**
[54] **DISPOSITIF AMELIORE DE SEPARATION IMMUNOMAGNETIQUE A GRANDE ECHELLE**
[72] LIBERTI, PAUL A., US
[71] BIOMAGNETIC SOLUTIONS LLC, US
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE DIRECTION DE LA POLITIQUE INDUSTRIELLE, FR
[85] 2022-05-02
[86] 2020-11-05 (PCT/US2020/059062)
[87] (WO2021/092141)
[30] US (62/930,917) 2019-11-05

[21] **3,159,923**
[13] A1

[51] **Int.Cl. F28D 9/00 (2006.01) F28F 3/04 (2006.01) F28F 3/08 (2006.01)**
[25] EN
[54] **HEAT TRANSFER PLATE**
[54] **PLAQUE DE TRANSFERT DE CHALEUR**
[72] NOREN, MATTIAS, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2022-04-25
[86] 2020-11-04 (PCT/EP2020/080936)
[87] (WO2021/104815)
[30] EP (19211477.5) 2019-11-26

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[21] **3,159,924**
[13] A1

[51] **Int.Cl. A61B 17/80 (2006.01)**
[25] EN
[54] **CLAVICLE SEGMENTAL PLATE SYSTEM**
[54] **SYSTEME DE PLAQUE SEGMENTAIRE DE CLAVICULE**
[72] ZENKER, MARTIN, CH
[72] GALM, ANDRE, CH
[72] BAMMERLIN, MARTIN, CH
[72] SCHWEIZER, MARCEL, CH
[72] FONTANA, ARABELLA, CH
[72] ANDERMATT, DANIEL, CH
[72] JAEGER, MARTIN, DE
[72] NIJS, STEFAN, BE
[72] LAMBERT, SIMON, GB
[72] HOYEN, HARRY, US
[72] JIANG, CHUNYAN, CN
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2022-05-02
[86] 2020-10-02 (PCT/IB2020/059281)
[87] (WO2021/090084)
[30] US (16/673,655) 2019-11-04

[21] **3,159,925**
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/16 (2006.01)**
[25] EN
[54] **DEVICE AND SYSTEM FOR FACILITATING INSERTION OF A BONE TREATMENT DEVICE**
[54] **DISPOSITIF ET SYSTEME POUR FACILITER L'INSERTION D'UN DISPOSITIF DE TRAITEMENT D'OS**
[72] EL ZOGHBI, GASER, CH
[72] AEBI, THIS, CH
[72] DEFOSSEZ, HENRI, CH
[72] WEBER, ANDRE, CH
[72] UEHLINGER, ROBERT, CH
[72] HUNT, JOHN V., US
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2022-05-02
[86] 2020-11-04 (PCT/IB2020/060377)
[87] (WO2021/090210)
[30] US (16/674,406) 2019-11-05

[21] **3,159,927**
[13] A1

[51] **Int.Cl. C07C 5/48 (2006.01) C07C 7/148 (2006.01) C07C 11/04 (2006.01)**
[25] EN
[54] **REMOVAL OF CARBON MONOXIDE, OXYGEN AND ACETYLENE FROM AN OXIDATIVE DEHYDROGENATION PROCESS**
[54] **ELIMINATION DE MONOXYDE DE CARBONE, D'OXYGENE ET D'ACETYLENE A PARTIR D'UN PROCESSUS DE DESHYDROGENATION OXYDANTE**
[72] KIM, YOONHEE, CA
[72] GAO, XIAOLIANG, CA
[72] SIMANZHENKOV, VASILY, CA
[72] OLAYIWOLA, BOLAJI, CA
[72] GOODARZANIA, SHAHIN, CA
[72] GENT, DAVID, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-05-02
[86] 2020-12-04 (PCT/IB2020/061522)
[87] (WO2021/124004)
[30] US (62/951,209) 2019-12-20

[21] **3,159,931**
[13] A1

[51] **Int.Cl. A61K 38/12 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 5/023 (2006.01) C07K 5/037 (2006.01)**
[25] EN
[54] **CYCLIC PEPTIDE COMPOUND HAVING KRAS INHIBITORY**
[54] **COMPOSE PEPTIDIQUE CYCLIQUE AYANT UNE ACTION INHIBITRICE DE KRAS**
[72] TANADA, MIKIMASA, JP
[72] TAKANO, KOJI, JP
[72] MATSUO, ATSUSHI, JP
[72] TAMIYA, MINORU, JP
[72] CHIYODA, AYA, JP
[72] ITO, TOSHIYA, JP
[72] IIDA, TAKEO, SG
[71] CHUGAL SEIYAKU KABUSHIKI KAISHA, JP
[85] 2022-05-02
[86] 2020-11-05 (PCT/JP2020/041277)
[87] (WO2021/090855)
[30] JP (2019-202407) 2019-11-07

[21] **3,159,934**
[13] A1

[51] **Int.Cl. C22C 38/08 (2006.01) C22C 38/04 (2006.01)**
[25] EN
[54] **ALLOY**
[54] **ALLIAGE**
[72] TAKEDA, KIYOKO, JP
[72] OTSUKA, SHUNICHI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2022-05-02
[86] 2020-12-25 (PCT/JP2020/048927)
[87] (WO2021/132634)
[30] JP (2019-238842) 2019-12-27

[21] **3,159,937**
[13] A1

[51] **Int.Cl. A43B 13/12 (2006.01) A43B 7/14 (2022.01) A43B 13/14 (2006.01) A43B 13/37 (2006.01)**
[25] EN
[54] **SHOE WITH SOLE PROVIDING A DYNAMIC HEEL SUPPORT**
[54] **CHAUSSURE AVEC SEMELLE FOURNISSANT UN SUPPORT DE TALON DYNAMIQUE**
[72] ENGELL, HAVARD, NO
[71] GAITLINE AS, NO
[85] 2022-05-02
[86] 2020-11-13 (PCT/NO2020/050278)
[87] (WO2021/112682)
[30] NO (20191441) 2019-12-06

[21] **3,159,938**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR T CELL THERAPY**
[54] **THERAPIE PAR LYMPHOCYTES T A RECEPTEUR ANTIGENIQUE CHIMERIQUE**
[72] BOT, ADRIAN, US
[72] ROSSI, JOHN, US
[71] KITE PHARMA, INC., US
[85] 2022-05-02
[86] 2020-11-06 (PCT/US2020/059285)
[87] (WO2021/092290)
[30] US (62/931,636) 2019-11-06
[30] US (62/944,937) 2019-12-06
[30] US (63/031,217) 2020-05-28
[30] US (63/056,369) 2020-07-24
[30] US (63/063,692) 2020-08-10
[30] US (63/089,930) 2020-10-09

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[21] **3,159,940**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7105 (2006.01) A61P 31/12 (2006.01)**

[25] EN

[54] **METHODS OF REDUCING VIRUS MOLECULE LEVELS**

[54] **PROCEDES DE REDUCTION DES TAUX DE MOLECULES VIRALES**

[72] KAO, CHIA-CHENG, US

[72] BLATT, LAWRENCE M., US

[72] BEIGELMAN, LEONID, US

[71] ALIGOS THERAPEUTICS, INC., US

[85] 2022-05-02

[86] 2020-11-06 (PCT/US2020/059385)

[87] (WO2021/092360)

[30] US (62/931,962) 2019-11-07

[21] **3,159,941**
[13] A1

[51] **Int.Cl. C07K 14/00 (2006.01) A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 38/10 (2006.01) A61K 38/12 (2006.01) A61P 17/02 (2006.01) A61P 31/04 (2006.01) C07K 1/02 (2006.01) C07K 7/08 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING ANTIMICROBIAL PEPTIDES**

[54] **COMPOSITIONS COMPRENANT DES PEPTIDES ANTIMICROBIENS**

[72] URISH, KENNETH, US

[72] MANDELL, JONATHAN BRENDAN, US

[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US

[85] 2022-05-02

[86] 2020-11-06 (PCT/US2020/059415)

[87] (WO2021/092382)

[30] US (62/932,609) 2019-11-08

[30] US (63/028,636) 2020-05-22

[21] **3,159,942**
[13] A1

[51] **Int.Cl. C07C 233/87 (2006.01) A61K 31/496 (2006.01) A61K 31/7034 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07C 41/18 (2006.01) C07C 43/23 (2006.01) C07C 233/83 (2006.01) C07C 249/08 (2006.01) C07C 251/48 (2006.01) C07C 319/12 (2006.01) C07C 319/20 (2006.01) C07C 321/14 (2006.01) C07D 207/09 (2006.01) C07D 209/20 (2006.01) C07D 233/64 (2006.01) C07H 5/04 (2006.01) C07H 15/203 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **TUCARESOL DERIVATIVES AND USES THEREOF**

[54] **DERIVES DE TUCARESOL ET LEURS UTILISATIONS**

[72] HE, CHENGJIANG, US

[72] HUANG, LAN, US

[72] TONRA, JAMES R., US

[71] BEYONDSRING PHARMACEUTICALS, INC., US

[85] 2022-05-02

[86] 2020-11-09 (PCT/US2020/059722)

[87] (WO2021/096811)

[30] CN (201911094713.8) 2019-11-11

[21] **3,159,946**
[13] A1

[51] **Int.Cl. G06F 9/451 (2018.01)**

[25] EN

[54] **INTELLIGENT CONTEXTUAL GROUPING OF NOTIFICATIONS IN AN ACTIVITY FEED**

[54] **REGROUPEMENT CONTEXTUEL INTELLIGENT DE NOTIFICATIONS DANS UN FLUX D'ACTIVITE**

[72] GOGATE, ANUJA, US

[72] NORMAN, DUSTIN, US

[72] HOERNER, SHAWN, US

[71] CITRIX SYSTEMS, INC., US

[85] 2022-05-02

[86] 2020-11-13 (PCT/US2020/060394)

[87] (WO2021/126434)

[30] US (16/718,285) 2019-12-18

[21] **3,159,951**
[13] A1

[51] **Int.Cl. C07C 43/162 (2006.01) C07C 381/10 (2006.01) C07D 267/16 (2006.01) C07D 513/08 (2006.01) C07D 513/10 (2006.01) C07D 515/20 (2006.01) C07F 7/18 (2006.01)**

[25] EN

[54] **PROCESSES AND INTERMEDIATES FOR PREPARING MCL1 INHIBITORS**

[54] **PROCEDES ET INTERMEDIAIRES POUR LA PREPARATION D'INHIBITEURS DE MCL1**

[72] BRAK, KATRIEN, US

[72] BULLOCK, KAE M., US

[72] CIZIO, GREG, US

[72] DAO, KATHY, US

[72] DIXON, DARRYL D., US

[72] DUNETZ, JOSHUA R., US

[72] HUMPHREYS, LUKE D., US

[72] HUYNH, VALERIE, US

[72] ISCHAY, MICHAEL A., US

[72] JOHNSON, TREVOR C., US

[72] MERIT, JEFFREY E., US

[72] REGENS, CHRISTOPHER S., US

[72] STANDLEY, ERIC A., US

[72] STEINHUEBEL, DIETRICH P., US

[72] SU, JUSTIN Y., US

[72] WU, TAO, US

[72] YOUNG, MARSHALL D., US

[71] GILEAD SCIENCES, INC., US

[85] 2022-05-02

[86] 2020-11-20 (PCT/US2020/061517)

[87] (WO2021/108254)

[30] US (62/940,387) 2019-11-26

[21] **3,159,953**
[13] A1

[51] **Int.Cl. B32B 1/08 (2006.01) B32B 7/12 (2006.01) B32B 15/088 (2006.01) B32B 15/18 (2006.01) B32B 15/20 (2006.01) B32B 27/18 (2006.01) B32B 27/20 (2006.01) B32B 27/34 (2006.01)**

[25] EN

[54] **POLYAMIDE-METAL LAMINATES**

[54] **STRATIFIES POLYAMIDE-METAL**

[72] KENMOCHI, TSUNAO, JP

[72] MAKI, HARUKI, JP

[71] DUPONT POLYMERS, INC., US

[85] 2022-05-02

[86] 2020-11-25 (PCT/US2020/062203)

[87] (WO2021/108533)

[30] US (62/940,397) 2019-11-26

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[21] **3,159,955**
[13] A1

[51] **Int.Cl. B23K 1/00 (2006.01) B23K 35/22 (2006.01) B23K 35/30 (2006.01)**

[25] EN

[54] **LOW MELTING NICKEL-MANGANESE-SILICON BASED BRAZE FILLER METALS FOR HEAT EXCHANGER APPLICATIONS**

[54] **METAUX D'APPORT DE BRASAGE A BASE DE NICKEL-MANGANESE-SILICIUM A BAS POINT DE FUSION POUR APPLICATIONS D'ECHANGEUR DE CHALEUR**

[72] LEE, DONGMYOUNG, US

[72] RANGASWAMY, SUBRAMANIAM, US

[71] OERLIKON METCO (US) INC., US

[85] 2022-05-02

[86] 2020-11-25 (PCT/US2020/062261)

[87] (WO2021/108578)

[30] US (62/940,533) 2019-11-26

[21] **3,159,960**
[13] A1

[51] **Int.Cl. A61B 1/015 (2006.01) A61B 1/00 (2006.01) A61B 1/018 (2006.01) A61M 11/02 (2006.01) A61M 13/00 (2006.01)**

[25] EN

[54] **MEDICAL DEVICES FOR AGENT DELIVERY AND RELATED METHODS OF USE**

[54] **DISPOSITIFS MEDICAUX POUR ADMINISTRATION D'AGENT ET PROCEDES D'UTILISATION ASSOCIES**

[72] CONGDON, DANIEL, US

[72] SMITH, AMANDA LYNN, US

[72] LEHTINEN, LAURIE A., US

[72] PIC, ANDREW, US

[72] WEINER, JASON, US

[71] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2022-05-02

[86] 2020-12-02 (PCT/US2020/062861)

[87] (WO2021/113341)

[30] US (62/943,065) 2019-12-03

[21] **3,159,965**
[13] A1

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/142 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR COMPENSATION OF TUBING STRESS RELAXATION EFFECTS WITH INFUSION PUMP SYSTEMS**

[54] **SYSTEMES ET PROCEDES DE COMPENSATION D'EFFETS DE RELAXATION DE CONTRAINTE DE TUBE AVEC DES SYSTEMES DE POMPE A PERFUSION**

[72] MORRISON, QUINN, US

[72] COONS, PAUL HARRISON, US

[71] SMITHS MEDICAL ASD, INC., US

[85] 2022-05-02

[86] 2020-11-02 (PCT/US2020/070734)

[87] (WO2021/092616)

[30] US (62/930,341) 2019-11-04

[21] **3,159,972**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01)**

[25] EN

[54] **DEVICE, A SYSTEM, AND A METHOD FOR ACCESS CANNULA ADVANCEMENT**

[54] **DISPOSITIF, SYSTEME ET PROCEDE D'AVANCEMENT DE CANULE D'ACCES**

[72] TEHRANI, RAMIN N., US

[72] BENNING, CHRISTOPHER A., US

[72] HUGHES, GREGORY THOMAS, US

[71] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2022-05-02

[86] 2021-02-18 (PCT/US2021/018557)

[87] (WO2021/183268)

[30] US (62/987,740) 2020-03-10

[21] **3,159,975**
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) A61K 39/44 (2006.01) A61P 7/02 (2006.01) A61P 35/04 (2006.01) C07K 16/28 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **HUMANIZED ANTI-GLYCOPROTEIN IB ALPHA (GPIBALPHA) ANTIBODIES**

[54] **ANTICORPS ANTI-GLYCOPROTEINE IB ALPHA (GPIBALPHA) HUMANISES**

[72] NI, HEYU, CA

[71] CCOA THERAPEUTICS INC., CA

[85] 2022-05-03

[86] 2020-12-10 (PCT/CA2020/051699)

[87] (WO2021/113974)

[30] US (62/946,086) 2019-12-10

[21] **3,160,008**
[13] A1

[51] **Int.Cl. A47G 9/02 (2006.01) A61M 21/02 (2006.01)**

[25] EN

[54] **LAYERED YARN AND WEIGHTED BLANKET FOR DEEP PRESSURE THERAPY**

[54] **FIL EN COUCHES ET COUVERTURE LESTEE POUR UNE THERAPIE PAR PRESSION PROFONDE**

[72] HAMM, KATHRIN, US

[71] SOMNOS INTERNATIONAL HOLDING LTD., AE

[85] 2022-05-13

[86] 2019-10-08 (PCT/US2019/055194)

[87] (WO2020/101823)

[30] US (16/193,792) 2018-11-16

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[21] **3,160,017**
[13] A1

[51] **Int.Cl. A01K 5/00 (2006.01) A01K 29/00 (2006.01) B07B 1/40 (2006.01) G01G 19/40 (2006.01) G01N 5/04 (2006.01) G01N 15/02 (2006.01)**

[25] EN

[54] **A DEVICE AND METHOD FOR PRODUCING FEED FOR LIVESTOCK**

[54] **DISPOSITIF ET PROCEDE DE PRODUCTION D'ALIMENTS POUR LE BETAIL**

[72] KAAE, ANDERS, DK

[72] JENSEN, TORBEN DUEDAL, DK

[71] VESTJYLLANDS ANDEL A.M.B.A., DK

[85] 2022-05-03

[86] 2020-12-01 (PCT/EP2020/084096)

[87] (WO2021/110668)

[30] EP (19213390.8) 2019-12-04

[21] **3,160,021**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 63/00 (2006.01)**

[25] EN

[54] **METHOD FOR THE DYNAMIC TRAFFIC ROUTING OF EXTERNAL TRANSPORTATION MEANS IN A HIGH-BAY WAREHOUSE**

[54] **PROCEDE D'ACHEMINEMENT DYNAMIQUE DE TRAFIC DE MOYENS DE TRANSPORT EXTERNES DANS UN ENTREPOT A RAYONNAGES HAUTS**

[72] VAN DER MEER, RONALD JOHANNES, AE

[72] BOL, PATRICK, AE

[72] BRUCK, VOLKER, DE

[72] HEIDE, CARSTEN, DE

[72] KLEIN, BERND, DE

[71] AMOVA GMBH, DE

[85] 2022-05-03

[86] 2020-11-09 (PCT/EP2020/081478)

[87] (WO2021/121776)

[30] DE (10 2019 134 528.6) 2019-12-16

[21] **3,160,026**
[13] A1

[51] **Int.Cl. B04B 1/08 (2006.01) B04B 7/14 (2006.01)**

[25] EN

[54] **METHOD FOR MOUNTING A STACK OF SEPARATING DISCS IN A CENTRIFUGAL SEPARATOR BOWL AND A TOOL**

[54] **PROCEDE DE MONTAGE D'UN EMPILEMENT DE DISQUES DE SEPARATION DANS UNE CUVE DE SEPARATEUR CENTRIFUGE, ET OUTIL**

[72] PITKAMAKI, JOUKO, SE

[71] ALFA LAVAL CORPORATE AB, SE

[85] 2022-05-03

[86] 2020-11-09 (PCT/EP2020/081474)

[87] (WO2021/099162)

[30] EP (19211006.2) 2019-11-22

[21] **3,160,027**
[13] A1

[51] **Int.Cl. C07K 1/14 (2006.01) C12M 1/00 (2006.01) C12M 1/02 (2006.01) C12N 1/06 (2006.01)**

[25] EN

[54] **NEW PROCESS OF EXTRACTING PROTEIN**

[54] **NOUVEAU PROCEDE D'EXTRACTION DE PROTEINE**

[72] DUNAS, FINN, SE

[72] ROJSATER, BELINDA, SE

[72] MOKS, TOMAS, SE

[71] AFFIBODY AB, SE

[85] 2022-05-03

[86] 2020-11-09 (PCT/EP2020/081420)

[87] (WO2021/089862)

[30] EP (19208153.7) 2019-11-08

[21] **3,160,032**
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01) A61K 39/12 (2006.01) C07K 14/08 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 15/40 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **ARENAVIRUSES AS VECTORS**

[54] **ARENAVIRUS EN TANT QUE VECTEURS**

[72] PINSCHER, DANIEL, CH

[72] PINSCHER, WELDI BONILLA, CH

[71] UNIVERSITAT BASEL, CH

[85] 2022-05-03

[86] 2020-11-06 (PCT/EP2020/081393)

[87] (WO2021/089853)

[30] US (62/932,214) 2019-11-07

[21] **3,160,035**
[13] A1

[51] **Int.Cl. A61K 31/454 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 25/00 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **INHIBITORS OF ADRENORECEPTOR ADRAC2**

[54] **INHIBITEURS DE L'ADRENORECEPTEUR ADRAC2**

[72] DELBECK, MARTINA, DE

[72] HAHN, MICHAEL, DE

[72] MULLER, THOMAS, DE

[72] DIETZ, LISA, DE

[72] PLATZK, MAGDALENA, US

[72] MEIBOM, DANIEL, DE

[72] BUCHGRABER, PHILIPP, DE

[72] LINDNER, NIELS, DE

[72] BECKER-PELSTER, EVA MARIA, DE

[72] SCHMECK, CARSTEN, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2022-05-03

[86] 2020-11-05 (PCT/EP2020/081097)

[87] (WO2021/089683)

[30] EP (19207536.4) 2019-11-06

[21] **3,160,068**
[13] A1

[51] **Int.Cl. C07F 3/06 (2006.01) B01J 8/00 (2006.01)**

[25] EN

[54] **CONTINUOUS PREPARATION METHOD FOR BENZYLZINC HALIDE AND DERIVATIVE THEREOF**

[54] **PROCEDE DE PREPARATION EN CONTINU D'HALOGENURE DE ZINC BENZYLE ET DE SES DERIVES**

[72] HONG, HAO, US

[72] LU, JIANGPING, CN

[72] FENG, XICHUN, CN

[72] SUN, XINGFANG, CN

[72] LIANG, YONG, CN

[71] ASYMCHEM LABORATORIES (TIANJIN) CO., LTD., CN

[85] 2022-03-23

[86] 2019-09-24 (PCT/CN2019/107546)

[87] (WO2021/056193)

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[21] **3,160,069**
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61K 33/04 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01)**

[25] EN

[54] **METERED DOSE FOR DISORDERS IN OR AROUND THE EYE**

[54] **DOSE MESUREE POUR DES TROUBLES DANS OU AUTOUR DE L'ŒIL**

[72] ALSTER, YAIR, IL
[72] RAFAELI, OMER, IL
[72] BOSWORTH, CHARLES, IL
[72] RAPAPORT, HADAS, IL
[71] AZURA OPHTHALMICS LTD., IL
[85] 2022-05-03
[86] 2020-11-03 (PCT/IB2020/000980)
[87] (WO2021/090070)
[30] US (62/930,484) 2019-11-04

[21] **3,160,070**
[13] A1

[51] **Int.Cl. C07D 413/10 (2006.01) A01N 43/80 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED-ISOXAZOLINE-CONTAINING AROMATIC COMPOUND, PREPARATION METHOD THEREFOR, HERBICIDAL COMPOSITION AND USE THEREOF**

[54] **COMPOSE AROMATIQUE CONTENANT DE L'ISOXAZOLINE SUBSTITUEE, PROCEDE DE PREPARATION CORRESPONDANT, COMPOSITION HERBICIDE ET UTILISATION ASSOCIEE**

[72] LIAN, LEI, CN
[72] PENG, XUEGANG, CN
[72] HUA, RONGBAO, CN
[72] ZHAO, DE, CN
[72] CUI, QI, CN
[71] QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD., CN
[85] 2022-05-03
[86] 2020-11-04 (PCT/CN2020/126434)
[87] (WO2021/088856)
[30] CN (201911082204.3) 2019-11-07
[30] CN (202010131605.X) 2020-02-28

[21] **3,160,071**
[13] A1

[51] **Int.Cl. C07K 16/40 (2006.01) A61K 39/395 (2006.01) A61K 49/00 (2006.01) A61K 51/10 (2006.01) A61P 3/06 (2006.01) A61P 9/00 (2006.01) A61P 9/12 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTI-PCSK9 ANTIBODY AND USE THEREOF**

[54] **ANTICORPS ANTI-PCSK9 ET SON UTILISATION**

[72] LI, BAIYONG, CN
[72] XIA, YU, CN
[72] WANG, ZHONGMIN, CN
[72] JIN, XIAOPING, CN
[71] AD PHARMACEUTICALS CO., LTD., CN
[85] 2022-05-03
[86] 2020-11-18 (PCT/CN2020/129763)
[87] (WO2021/098720)
[30] CN (201911132974.4) 2019-11-18
[30] CN (201911133187.1) 2019-11-18

[21] **3,160,072**
[13] A1

[51] **Int.Cl. C25B 1/245 (2021.01) C25B 9/19 (2021.01) B44C 1/22 (2006.01) C03C 15/00 (2006.01) C04B 41/53 (2006.01) C25B 1/22 (2006.01)**

[25] EN

[54] **SYSTEM FOR MODIFYING THE SURFACE PROPERTIES OF MATERIALS**

[54] **SYSTEME DE MODIFICATION DES PROPRIETES DE SURFACES DE MATERIAUX**

[72] RIZZO, ALESSANDRO, IT
[72] RIZZO, GIANPIETRO, IT
[71] R. E R. GROUP S.R.L., IT
[85] 2022-05-03
[86] 2020-10-28 (PCT/IB2020/060076)
[87] (WO2021/090112)
[30] IT (102019000020252) 2019-11-04

[21] **3,160,076**
[13] A1

[51] **Int.Cl. F24F 13/072 (2006.01) E04B 9/00 (2006.01)**

[25] EN

[54] **LINEAR AIR DIFFUSER FOR SUSPENDED CEILING**

[54] **DIFFUSEUR D'AIR LINEAIRE D'UN PLAFOND SUSPENDU**

[72] KILIEVOI, VITALII, EE
[71] OSAUHING VECTA DESIGN, EE
[85] 2022-05-03
[86] 2020-11-03 (PCT/IB2020/060320)
[87] (WO2021/090173)
[30] EE (U201900060) 2019-11-05

[21] **3,160,078**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 35/12 (2015.01) A61K 35/28 (2015.01) C12N 5/00 (2006.01)**

[25] EN

[54] **METHOD FOR COATING AND DRYING HETEROGENOUS STEM CELL DERIVED EXTRA-CELLULAR VESICLES**

[54] **PROCEDE DE REVETEMENT ET DE SECHAGE DE VESICULES EXTRACELLULAIRES ISSUES DE CELLULES SOUCHES HETEROGENES**

[72] ELTOOKHY, OMAR MOHAMED SALAH ELDIN AHMED, EG
[72] HANAFI, AHMED NOUR ELDINE ABDALLAH, EG
[72] MOUSTAFA, MOHAMED MOUSTAFA BAHR, EG
[72] IBRAHIM, KHALED ABOU ELSOUUD MAHMOUD, EG
[72] SHAMAA, ASHRAF ALI ELDESOUKY, EG
[72] AMER, MOHAMED SAID MOSTAFA, EG
[71] ELTOOKHY, OMAR MOHAMED SALAH ELDIN AHMED, EG
[71] HANAFI, AHMED NOUR ELDINE ABDALLAH, EG
[71] MOUSTAFA, MOHAMED MOUSTAFA BAHR, EG
[85] 2022-05-03
[86] 2020-11-02 (PCT/EG2020/000030)
[87] (WO2021/089101)
[30] EG (2019111752) 2019-11-04

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[21] **3,160,079**
[13] A1

[51] **Int.Cl. F21V 21/34 (2006.01) E04B 9/00 (2006.01) F21S 8/02 (2006.01) F21V 21/04 (2006.01) F21V 21/096 (2006.01) H01R 25/14 (2006.01)**

[25] EN

[54] **A MOUNTING PROFILE FOR LIGHTING SYSTEM OF SUSPENDED CEILING**

[54] **PROFILE DE MONTAGE POUR SYSTEME D'ECLAIRAGE DE PLAFOND SUSPENDU**

[72] KILIEVOI, VITALII, EE

[71] OSAUHING VECTA DESIGN, EE

[85] 2022-05-03

[86] 2020-11-05 (PCT/IB2020/060405)

[87] (WO2021/090224)

[30] EE (P201900026) 2019-11-05

[21] **3,160,080**
[13] A1

[51] **Int.Cl. H01H 33/668 (2006.01)**

[25] EN

[54] **A METHOD FOR MONITORING VACUUM INTERRUPTER'S CONDITION AND AN ELECTRIC SWITCHING DEVICE**

[54] **PROCEDE DE SURVEILLANCE DE L'ETAT D'UN INTERRUPTEUR A VIDE ET DISPOSITIF DE COMMUTATION ELECTRIQUE**

[72] BACHORZ, LUKASZ, AU

[72] HEEMSKERK, TIMOTHY JOHN, AU

[71] HITACHI ENERGY SWITZERLAND AG, CH

[85] 2022-05-03

[86] 2020-02-24 (PCT/EP2020/054781)

[87] (WO2021/170208)

[21] **3,160,082**
[13] A1

[51] **Int.Cl. F16L 59/153 (2006.01) G01M 3/00 (2006.01)**

[25] EN

[54] **PRE-INSULATED PIPE**

[54] **TUYAU PRE-ISOLE**

[72] TONOLI, LORENZO, IT

[72] FARINA, STEFANO FEDELE, IT

[71] ECOTECH S.R.L., IT

[85] 2022-05-03

[86] 2020-11-11 (PCT/IB2020/060603)

[87] (WO2021/094937)

[30] IT (102019000020781) 2019-11-11

[21] **3,160,084**
[13] A1

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/06 (2006.01)**

[25] EN

[54] **HEAT TREATED COLD ROLLED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**

[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET PROCEDE DE FABRICATION DE CELLE-CI**

[72] LORENZINI, PASCAL, FR

[71] ARCELORMITTAL, LU

[85] 2022-05-03

[86] 2020-12-10 (PCT/IB2020/061725)

[87] (WO2021/116956)

[30] IB (PCT/IB2019/060743) 2019-12-13

[21] **3,160,086**
[13] A1

[51] **Int.Cl. H04W 16/14 (2009.01) H04W 72/04 (2009.01) H04W 72/08 (2009.01)**

[25] EN

[54] **TERMINAL**

[54] **TERMINAL**

[72] KURITA, DAISUKE, JP

[72] HARADA, HIROKI, JP

[72] KUMAGAI, SHINYA, JP

[71] NTT DOCOMO, INC., JP

[85] 2022-05-03

[86] 2019-11-07 (PCT/JP2019/043758)

[87] (WO2021/090454)

[21] **3,160,088**
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 34/10 (2016.01) A61B 34/30 (2016.01) A61B 90/00 (2016.01) A61B 34/20 (2016.01)**

[25] EN

[54] **MEDICAL SYSTEMS FOR ABLATING TISSUE**

[54] **SYSTEMES MEDICAUX D'ABLATION DE TISSU**

[72] HENCHIE, TRAVIS, US

[72] SCOTT, SERENA, US

[72] BAGLEY, KEVIN L., US

[71] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2022-05-03

[86] 2020-11-04 (PCT/US2020/058852)

[87] (WO2021/091991)

[30] US (62/930,721) 2019-11-05

[21] **3,160,091**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **DOSING REGIMENS FOR USE IN TREATING MYELOFIBROSIS AND MPN-RELATED DISORDERS WITH NAVITOCCLAX**

[54] **SCHEMAS POSOLOGIQUES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA MYELOFIBROSE ET DE TROUBLES LIES A MPN PAR LE NAVITOCCLAX**

[72] HAYSLIP, JOHN, US

[72] HOLES, LEANNE, US

[72] MENSING, SVEN, DE

[72] NUTHALAPATI, SILPA, US

[71] ABBVIE INC., US

[71] ABBVIE DEUTSCHLAND GMBH & CO. KG, DE

[85] 2022-05-03

[86] 2020-11-04 (PCT/US2020/058910)

[87] (WO2021/092030)

[30] US (62/930,951) 2019-11-05

[30] US (62/984,518) 2020-03-03

[21] **3,160,097**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01) C12N 15/67 (2006.01)**

[25] EN

[54] **TREM COMPOSITIONS FOR CON-RARE CODONS AND RELATED USES**

[54] **COMPOSITIONS TREM POUR DES CODONS CON-RARE ET UTILISATIONS ASSOCIEES**

[72] HAJDIN, CHRISTINE ELIZABETH, US

[72] BERRY, DAVID ARTHUR, US

[72] ANASTASSIADIS, THEONIE, US

[72] AFEYAN, NOUBAR BOGHOS, US

[71] FLAGSHIP PIONEERING, INC., US

[85] 2022-05-03

[86] 2020-11-04 (PCT/US2020/058948)

[87] (WO2021/092064)

[30] US (62/930,361) 2019-11-04

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[21] **3,160,100**
[13] A1

[51] **Int.Cl. B60R 9/08 (2006.01) B60R 9/10 (2006.01)**
[25] EN
[54] **VACUUM MOUNTED CARRIER FOR A VEHICLE**
[54] **ELEMENT PORTEUR A MONTAGE PAR VIDE POUR VEHICULE**
[72] CASAGRANDE, CHARLES L., US
[71] SEASUCKER, LLC, US
[85] 2022-05-03
[86] 2020-11-04 (PCT/US2020/058981)
[87] (WO2021/092093)
[30] US (62/930,416) 2019-11-04
[30] US (62/930,365) 2019-11-04

[21] **3,160,101**
[13] A1

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 34/10 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **INDEXING TRACK AND PIN**
[54] **RAIL ET BROCHE D'INDEXAGE**
[72] MUELLER, ANDREW, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2022-05-03
[86] 2020-12-15 (PCT/US2020/065086)
[87] (WO2021/126830)
[30] US (62/949,490) 2019-12-18

[21] **3,160,102**
[13] A1

[51] **Int.Cl. A61K 31/70 (2006.01) A61K 31/7088 (2006.01) A61K 48/00 (2006.01) A61K 49/00 (2006.01) A61P 35/00 (2006.01) C07H 21/00 (2006.01)**
[25] EN
[54] **MICROBIAL DETECTION PLATFORM**
[54] **PLATEFORME DE DETECTION MICROBIENNE**
[72] MCNAMARA, JAMES O., US
[72] MAKHARASHVILI, NODAR, US
[71] NUCLEASE PROBE TECHNOLOGIES, INC., US
[85] 2022-05-03
[86] 2020-11-05 (PCT/US2020/059016)
[87] (WO2021/092110)
[30] US (62/930,616) 2019-11-05

[21] **3,160,104**
[13] A1

[51] **Int.Cl. A61K 31/265 (2006.01) A61K 31/341 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **METHODS OF TREATING ASCITES**
[54] **METHODES DE TRAITEMENT D'ASCITES**
[72] MACALLISTER, THOMAS W., US
[72] JACOBSON, SVEN M., US
[71] MARTIN PHARMACEUTICALS, INC., US
[85] 2022-05-03
[86] 2020-11-05 (PCT/US2020/059112)
[87] (WO2021/096755)
[30] US (62/936,270) 2019-11-15
[30] US (62/943,605) 2019-12-04
[30] US (63/067,411) 2020-08-19

[21] **3,160,105**
[13] A1

[51] **Int.Cl. B65D 17/28 (2006.01) B65D 1/20 (2006.01) B65D 8/02 (2006.01) B65D 43/18 (2006.01)**
[25] EN
[54] **RESEALABLE CAN END WITH STAY ON TAB**
[54] **COUVERCLE DE CANETTE REFERMABLE DOTE D'UNE LANGUETTE NON DETACHABLE**
[72] BONFOEY, DAVID J., US
[72] CARSON, CHARLES H., US
[72] SILES, JOHN, US
[71] BALL CORPORATION, US
[85] 2022-05-03
[86] 2020-11-06 (PCT/US2020/059361)
[87] (WO2021/092344)
[30] US (62/932,633) 2019-11-08

[21] **3,160,106**
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01)**
[25] EN
[54] **ANTIGENIC NEURON SPECIFIC ENOLASE PEPTIDES FOR DIAGNOSING AND TREATING AUTISM**
[54] **PEPTIDES D'ENOLASE SPECIFIQUE DES NEURONES ANTIGENIQUES POUR LE DIAGNOSTIC ET LE TRAITEMENT DE L'AUTISME**
[72] VAN DE WATER, JUDY, US
[72] EDMISTON, ELIZABETH, US
[72] RAMIREZ CELIS, NORA ALEXANDRA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-05-03
[86] 2020-11-24 (PCT/US2020/061969)
[87] (WO2021/108379)
[30] US (62/940,175) 2019-11-25

[21] **3,160,109**
[13] A1

[51] **Int.Cl. A23L 13/00 (2016.01) C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01)**
[25] EN
[54] **APPARATUSES AND SYSTEMS FOR PREPARING A MEAT PRODUCT**
[54] **APPAREILS ET PROCEDES DE PREPARATION D'UN PRODUIT CARNE**
[72] WARNER, MICHELLE, US
[72] VANDERPOL, RYAN EDWARD, US
[72] HSIU, THOMAS PEI-JA, US
[72] LEUNG, MATTHEW, US
[72] CARSWELL, KATHLEEN, US
[71] UPSIDE FOODS, INC., US
[85] 2022-05-03
[86] 2020-11-20 (PCT/US2020/061676)
[87] (WO2021/102375)
[30] US (62/938,087) 2019-11-20

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[21] **3,160,112**
[13] A1

[51] **Int.Cl. B65G 27/04 (2006.01) B65G 27/18 (2006.01) B65G 27/32 (2006.01)**

[25] EN

[54] **VIBRATING TABLE AND FEEDER WITH VIBRATING TABLE**

[54] **TABLE VIBRANTE ET DISPOSITIF D'ALIMENTATION AYANT UNE TABLE VIBRANTE**

[72] BUCHI, FELIX, CH

[71] FLEXFACTORY AG, CH

[85] 2022-05-03

[86] 2020-09-25 (PCT/EP2020/076990)

[87] (WO2021/063843)

[30] EP (19201155.9) 2019-10-02

[21] **3,160,113**
[13] A1

[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/0783 (2010.01) A61K 35/12 (2015.01) A61K 39/00 (2006.01) C07K 14/725 (2006.01) C12N 15/09 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **GENERATION OF ENGINEERED REGULATORY T CELLS**

[54] **GENERATION DE LYMPHOCYTES T REGULATEURS MODIFIES**

[72] CONWAY, ANTHONY, US

[72] FONG, HELEN, US

[72] KWONG, GEORGE, US

[71] SANGAMO THERAPEUTICS, INC., US

[85] 2022-05-03

[86] 2020-11-09 (PCT/US2020/059730)

[87] (WO2021/092581)

[30] US (62/933,252) 2019-11-08

[21] **3,160,117**
[13] A1

[51] **Int.Cl. B01J 3/08 (2006.01) B01D 17/038 (2006.01) B03B 9/02 (2006.01) B09C 1/02 (2006.01)**

[25] EN

[54] **TREATMENT OF HYDROCARBON-CONTAMINATED MATERIALS**

[54] **TRAITEMENT DE MATERIAUX CONTAMINES AUX HYDROCARBURES**

[72] BATT-RAWDEN, MARK, GB

[72] LEVEY, MICHAEL, GB

[71] ENVOREM LIMITED, GB

[85] 2022-05-04

[86] 2020-11-12 (PCT/EP2020/081980)

[87] (WO2021/094497)

[30] GB (1916428.4) 2019-11-12

[21] **3,160,118**
[13] A1

[51] **Int.Cl. A01B 9/00 (2006.01) A01B 15/10 (2006.01) A01B 13/08 (2006.01) A01B 15/16 (2006.01) A01B 49/02 (2006.01)**

[25] EN

[54] **PLOW MODULE HAVING A PERFORATED PLATE**

[54] **MODULE DE CHARRUE A PLAQUE PERFOREE**

[72] HUBER, FRANZ-FERDINAND, AT

[71] HUBER SOIL SOLUTION GMBH, AT

[85] 2022-05-03

[86] 2020-11-03 (PCT/EP2020/080784)

[87] (WO2021/089525)

[30] DE (10 2019 217 245.8) 2019-11-07

[21] **3,160,120**
[13] A1

[51] **Int.Cl. H01M 8/0245 (2016.01) H01M 8/0234 (2016.01) H01M 8/1004 (2016.01)**

[25] EN

[54] **GAS DIFFUSION LAYER FOR FUEL CELLS**

[54] **COUCHE DE DIFFUSION GAZEUSE POUR PILES A COMBUSTIBLE**

[72] BOCK, ACHIM, DE

[72] KLEIN, KRISTOF, DE

[72] RAKOUSKY, CHRISTOPH, DE

[72] BARSCH, HANNES, DE

[71] CARL FREUDENBERG KG, DE

[85] 2022-05-04

[86] 2020-11-05 (PCT/EP2020/081095)

[87] (WO2021/099129)

[30] DE (10 2019 131 343.0) 2019-11-20

[21] **3,160,121**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANDROGEN RECEPTOR INHIBITORS FOR THE TREATMENT OF NON-METASTATIC CASTRATION-RESISTANT PROSTATE CANCER IN SUBJECTS WITH SEVERE HEPATIC IMPAIRMENT**

[54] **INHIBITEURS DU RECEPTEUR DES ANDROGENES POUR LE TRAITEMENT DU CANCER DE LA PROSTATE NON METASTATIQUE RESISTANT A LA CASTRATION CHEZ DES SUJETS PRESENTANT UNE DEFICIENCE HEPATIQUE GRAVE**

[72] CHIEN, CALY, US

[72] HELLEMANS, PETER, BE

[72] YU, ALEX, US

[71] ARAGON PHARMACEUTICALS, INC., US

[71] JANSSEN RESEARCH & DEVELOPMENT, LLC, US

[85] 2022-05-03

[86] 2020-11-04 (PCT/EP2020/081008)

[87] (WO2021/089649)

[30] US (62/930,267) 2019-11-04

[21] **3,160,122**
[13] A1

[51] **Int.Cl. A42B 3/06 (2006.01) A42B 3/14 (2006.01)**

[25] EN

[54] **SAFETY HELMET**

[54] **CASQUE DE SECURITE**

[72] AGUSTSSON, HARALDUR, GB

[71] GLOBUS (SHETLAND) LTD., GB

[85] 2022-05-04

[86] 2020-11-04 (PCT/EP2020/080962)

[87] (WO2021/089622)

[30] GB (1916014.2) 2019-11-04

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[21] **3,160,123**
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **DOWNLINK RECEPTION IN MULTIPLE TRANSMISSION AND RECEPTION POINTS**
[54] **RECEPTION DE LIAISON DESCENDANTE DANS DE MULTIPLES POINTS DE TRANSMISSION ET DE RECEPTION**
[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL, US
[72] XU, KAI, US
[72] YI, YUNJUNG, US
[72] ZHOU, HUA, US
[71] OFINNO, LLC, US
[85] 2022-05-03
[86] 2020-11-06 (PCT/US2020/059375)
[87] (WO2021/092353)
[30] US (62/931,413) 2019-11-06

[21] **3,160,125**
[13] A1

[51] **Int.Cl. G16H 50/00 (2018.01) A61K 31/366 (2006.01) G01N 33/00 (2006.01)**
[25] EN
[54] **DIAGNOSTIC METHOD**
[54] **METHODE DIAGNOSTIQUE**
[72] RINSCH, CHRISTOPHER LAWRENCE, CH
[72] SINGH, ANURAG, CH
[71] AMAZENTIS SA, CH
[85] 2022-05-03
[86] 2020-11-04 (PCT/EP2020/081010)
[87] (WO2021/089651)
[30] GB (1916046.4) 2019-11-04

[21] **3,160,126**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/07 (2006.01) A61K 31/22 (2006.01) A61K 31/517 (2006.01) A61K 38/48 (2006.01) A61P 17/02 (2006.01) A61P 17/12 (2006.01)**
[25] EN
[54] **METHOD OF TREATING PALMOPLANTAR KERATODERMA**
[54] **PROCEDE DE TRAITEMENT DU KERATODERME PALMOPLANTAIRE**
[72] ARKIN, MOSHE, IL
[72] ZIGHELBOIM, MARCEL, IL
[72] LEVY-HACHAM, OFRA, IL
[72] NOV, ORI, IL
[71] SOL-GEL TECHNOLOGIES LTD., IL
[85] 2022-05-04
[86] 2020-11-05 (PCT/IL2020/051153)
[87] (WO2021/090322)
[30] US (62/931,252) 2019-11-06

[21] **3,160,128**
[13] A1

[51] **Int.Cl. H02J 50/10 (2016.01) E04B 1/00 (2006.01) E04B 1/18 (2006.01) E04B 1/38 (2006.01) F21V 23/00 (2015.01) F21V 31/00 (2006.01) F21V 33/00 (2006.01)**
[25] EN
[54] **DECK OR SLAB ANCHOR HOUSING POWER SUPPLY FOR POOL AND OTHER HIGH-MOISTURE OPERATING ENVIRONMENT POWERED DEVICES**
[54] **ALIMENTATION ELECTRIQUE DE BOITIER D'ANCRAGE POUR MARGELLE OU DALLE POUR DES DISPOSITIFS ALIMENTES DANS UN ENVIRONNEMENT D'EXPLOITATION A HAUTE TENEUR EN HUMIDITE**
[72] FRITTS, BRETT C., US
[72] SVENDSEN, WILLIAM J., US
[72] RUSSELL, GREGORY D., US
[71] S.R. SMITH, LLC, US
[85] 2022-05-03
[86] 2020-11-06 (PCT/US2020/059544)
[87] (WO2021/092493)
[30] US (62/931,695) 2019-11-06

[21] **3,160,130**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **METHODS OF MAKING SLEEVED AND PACKAGED HYDROPHILIC CATHETER ASSEMBLIES**
[54] **PROCEDES DE FABRICATION D'ENSEMBLES CATHETERS HYDROPHILES INTEGRES A MANCHON**
[72] PANESAR, SATWINDER S., US
[72] FARRELL, DAVID J., GB
[71] HOLLISTER INCORPORATED, US
[85] 2022-05-03
[86] 2020-11-06 (PCT/US2020/059421)
[87] (WO2021/092388)
[30] US (62/932,979) 2019-11-08

[21] **3,160,131**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07C 62/16 (2006.01) C07C 211/50 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **SALTS AND CRYSTALLINE FORMS OF A PD-1/PD-L1 INHIBITOR**
[54] **FORMES SALINES ET CRYSTALLINES D'UN INHIBITEUR DE PD-1/PD-L1**
[72] JIA, ZHONGJIANG, US
[72] CHEN, SHILI, US
[72] LI, YI, US
[72] MARTIN, TIMOTHY, US
[72] SHEN, BO, US
[72] SU, NAIJING, US
[72] ZHOU, JIACHENG, US
[72] LI, QUN, US
[71] INCYTE CORPORATION, US
[85] 2022-05-03
[86] 2020-11-10 (PCT/US2020/059817)
[87] (WO2021/096849)
[30] US (62/933,869) 2019-11-11
[30] US (63/022,131) 2020-05-08

Demandes PCT entrant en phase nationale

[21] **3,160,132**
[13] A1

[51] **Int.Cl. G01N 27/9013 (2021.01) G01N 27/9093 (2021.01) B07C 5/344 (2006.01)**

[25] EN

[54] **EDDY CURRENT INSPECTION OF METAL CONTAINERS**

[54] **INSPECTION DE RECIPIENTS METALLIQUES PAR COURANTS DE FOUCAULT**

[72] EFNER, JOHN D., US

[71] BALL CORPORATION, US

[85] 2022-05-03

[86] 2020-11-06 (PCT/US2020/059362)

[87] (WO2021/092345)

[30] US (62/932,645) 2019-11-08

[21] **3,160,133**
[13] A1

[51] **Int.Cl. C07K 14/55 (2006.01) C12N 15/26 (2006.01) C07K 14/715 (2006.01)**

[25] EN

[54] **IL-2RBYC BINDING COMPOUNDS**

[54] **COMPOSES DE LIAISON A IL-2RBYC**

[72] DOWER, WILLIAM J., US

[72] NEEDELS, MICHAEL C., US

[72] BARRETT, RONALD W., US

[72] BAKKER, ALICE V., US

[72] CWIRLA, STEVEN E., US

[71] MEDIKINE, INC., US

[85] 2022-05-04

[86] 2020-11-04 (PCT/US2020/058963)

[87] (WO2021/092075)

[30] US (62/930,758) 2019-11-05

[21] **3,160,135**
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/68 (2006.01) G01N 33/94 (2006.01)**

[25] EN

[54] **BIOMARKER OF DRUG-INDUCED CELLULAR TOXICITY AND DEPRESSION**

[54] **BIOMARQUEUR DE LA TOXICITE CELLULAIRE INDUITE PAR UN MEDICAMENT ET DE LA DEPRESSION**

[72] INNOCENZI, PAUL, GB

[72] FITZGERALD, PETER, GB

[72] RUDDOCK, MARK, GB

[72] LAMONT, JOHN, GB

[71] RANDOX LABORATORIES LTD, GB

[85] 2022-05-03

[86] 2020-11-06 (PCT/EP2020/081273)

[87] (WO2021/089772)

[30] GB (1916185.0) 2019-11-07

[21] **3,160,137**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT WITH ANTIBODIES AGAINST BCMA AND CD3**

[54] **METHODES DE TRAITEMENT AVEC DES ANTICORPS CONTRE BCMA ET CD3**

[72] BURGESS, MICHAEL, US

[72] HEGE, KRISTEN, US

[72] DATTA, KAUSHIK, US

[72] BOSS, ISAAC, US

[72] VU, MINH DIEM, CH

[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2022-05-03

[86] 2020-11-04 (PCT/US2020/058939)

[87] (WO2021/092056)

[30] EP (19207293.2) 2019-11-05

[30] EP (20179573.9) 2020-06-11

[21] **3,160,139**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) B01D 1/00 (2006.01)**

[25] EN

[54] **METHOD FOR SELECTIVE RECOVERY OF HYDROPHOBIC COMPOUNDS**

[54] **PROCEDE DE RECUPERATION SELECTIVE DE COMPOSES HYDROPHOBES**

[72] CORDIER, CHRISTOPHER JAMES, GB

[72] ANJUM, SADAF SAAD, GB

[72] FISHER, HENRY ALEXANDER, GB

[72] LANGLEY, BENJAMIN THOMAS, GB

[72] ATKINSON, IAN JOSEPH, GB

[72] HANSEN, LAURENCE BUSCH, GB

[71] GROW BIOTECH PLC, GB

[85] 2022-05-03

[86] 2020-11-04 (PCT/GB2020/052792)

[87] (WO2021/090003)

[30] US (62/930,459) 2019-11-04

[21] **3,160,140**
[13] A1

[51] **Int.Cl. A61B 5/282 (2021.01) A61B 5/259 (2021.01) A61B 5/308 (2021.01) A61B 5/363 (2021.01) A61B 5/366 (2021.01) A61B 5/01 (2006.01) A61N 1/04 (2006.01)**

[25] EN

[54] **STRETCHABLE ELECTROCARDIOGRAM (ECG) APPARATUSES**

[54] **APPAREILS D'ELECTROCARDIOGRAPHIE (ECG) ETIRABLES**

[72] LIU, YUXIN, US

[72] BAO, ZHENAN, US

[72] KHAN, YASSER, US

[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2022-05-04

[86] 2020-11-05 (PCT/US2020/059124)

[87] (WO2021/092184)

[30] US (62/930,985) 2019-11-05

[21] **3,160,142**
[13] A1

[51] **Int.Cl. A61K 31/504 (2006.01) A61K 38/12 (2006.01) A61P 35/00 (2006.01) C07K 5/02 (2006.01)**

[25] EN

[54] **RAS INHIBITORS**

[54] **INHIBITEURS DE RAS**

[72] KOLTUN, ELENA S., US

[72] CREGG, JAMES, US

[72] AAY, NAING, US

[72] BUCKL, ANDREAS, US

[72] GILL, ADRIAN L., US

[72] AGGEN, JAMES, US

[72] BURNETT, G. LESLIE, US

[72] PITZEN, JENNIFER, US

[72] WHALEN, DANIEL M., US

[72] KNOX, JOHN E., US

[72] LIU, YANG, US

[71] REVOLUTION MEDICINES, INC., US

[85] 2022-05-03

[86] 2020-11-04 (PCT/US2020/058801)

[87] (WO2021/091956)

[30] US (62/930,394) 2019-11-04

[30] US (62/951,763) 2019-12-20

[30] US (63/000,375) 2020-03-26

[30] US (63/043,601) 2020-06-24

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[21] **3,160,143**
[13] A1

[51] **Int.Cl. C07K 1/18 (2006.01) C07K 1/14 (2006.01) C07K 16/00 (2006.01) C07K 16/46 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **HIGH SALT LOAD CONDITIONING DURING CATION EXCHANGE CHROMATOGRAPHY TO REMOVE PRODUCT-RELATED IMPURITIES**

[54] **CONDITIONNEMENT DE CHARGE A TENEUR ELEVEE EN SEL PENDANT UNE CHROMATOGRAPHIE PAR ECHANGE DE CATIONS POUR ELIMINER DES IMPURETES LIEES AU PRODUIT**

[72] DIAZ, LUIS, US

[72] GOMEZ, NATALIA, US

[71] AMGEN INC., US

[85] 2022-05-04

[86] 2020-11-04 (PCT/US2020/058772)

[87] (WO2021/091932)

[30] US (62/931,863) 2019-11-07

[21] **3,160,144**
[13] A1

[51] **Int.Cl. A61K 31/7084 (2006.01) A61K 31/7088 (2006.01) A61K 41/00 (2020.01)**

[25] EN

[54] **USE OF IODIDE COMPOUNDS FOR THE TREATMENT AND PREVENTION OF CHEMOTHERAPY-ASSOCIATED CACHEXIA AND CARDIOTOXICITY**

[54] **UTILISATION DE COMPOSES D'IODURE POUR LE TRAITEMENT ET LA PREVENTION D'UNE CARDIOTOXICITE ET D'UNE CACHEXIE ASSOCIEES A UNE CHIMIOThERAPIE**

[72] HILL, STEPHEN A., US

[72] INSKO, MICHAEL ANDREW, US

[72] MORRISON, MICHAEL L., US

[72] IWATA, AKIKO, US

[72] ROTH, MARK B., US

[71] FARADAY PHARMACEUTICALS, INC., US

[71] FRED HUTCHINSON CANCER CENTER, US

[85] 2022-05-03

[86] 2020-11-03 (PCT/US2020/058756)

[87] (WO2021/137932)

[30] US (62/930,244) 2019-11-04

[21] **3,160,146**
[13] A1

[51] **Int.Cl. H04W 64/00 (2009.01) H04W 72/04 (2009.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETERMINING CHANNEL AVAILABILITY BY AN AUTOMATED FREQUENCY COORDINATION SYSTEM**

[54] **SYSTEMES ET PROCEDES POUR DETERMINER LA DISPONIBILITE DE CANAL PAR UN SYSTEME DE COORDINATION AUTOMATISEE DE FREQUENCE**

[72] MACMULLAN, SAMUEL JAY, US

[72] GHORBANZADEH, MICHAEL OLIVER, US

[72] NI, JAMES, US

[72] SCHAUBACH, KURT, US

[71] FEDERATED WIRELESS, INC., US

[85] 2022-05-03

[86] 2020-11-03 (PCT/US2020/058671)

[87] (WO2021/091873)

[30] US (62/931,871) 2019-11-07

[21] **3,160,147**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61P 9/00 (2006.01) C07D 239/91 (2006.01)**

[25] EN

[54] **METHODS OF TREATMENT AND/OR PREVENTION OF MAJOR ADVERSE CARDIOVASCULAR EVENTS (MACE) WITH A COMBINATION OF A BET BROMODOMAIN INHIBITOR AND A SODIUM DEPENDENT GLUCOSE TRANSPORT 2 INHIBITOR**

[54] **PROCEDES DE TRAITEMENT ET/OU DE PREVENTION D'EVENEMENTS CARDIOVASCULAIRES INDESIRABLES MAJEURS (MACE) AVEC UNE COMBINAISON D'UN INHIBITEUR DE BROMODOMAINE BET ET D'UN INHIBITEUR D U TRANSPORT DU GLUCOSE DEPENDANT DU SODIUM 2**

[72] LEBIODA, KENNETH EUGENE, CA

[72] HALLIDAY, CHRISTOPHER ROSS ARMSTRONG, CA

[72] KHAN, AZIZ NAEEM, CA

[71] RESVERLOGIX CORP., CA

[85] 2022-05-03

[86] 2020-11-04 (PCT/IB2020/000912)

[87] (WO2021/090061)

[30] US (62/930,860) 2019-11-05

[21] **3,160,148**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **INHIBITION OF THE VE-PTP PHOSPHATASE PROTECTS THE KIDNEY FROM ISCHEMIA-REPERFUSION INJURY**

[54] **INHIBITION DE LA PHOSPHATASE VE-PTP POUR PROTEGER LE REIN CONTRE UNE LESION D'ISCHEMIE-REPERFUSION**

[72] QUAGGIN, SUSAN E., US

[72] RYCZKO, MICHAEL C., CA

[72] RIPKA, AMY S., US

[71] NORTHWESTERN UNIVERSITY, US

[71] MANNIN RESEARCH INC., CA

[85] 2022-05-04

[86] 2020-10-30 (PCT/US2020/058245)

[87] (WO2021/091791)

[30] US (62/931,686) 2019-11-06

Demandes PCT entrant en phase nationale

[21] **3,160,151**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 31/18 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD30 ANTIBODY-DRUG CONJUGATES AND THEIR USE FOR THE TREATMENT OF HIV INFECTION**
[54] **CONJUGES MEDICAMENT-ANTICORPS ANTI-CD30 ET LEUR UTILISATION POUR LE TRAITEMENT DES INFECTIONS A VIH**
[72] WHITING, NANCY, US
[72] HEISER, RYAN ALAN, US
[72] GROGAN, BRYAN MATTHEW, US
[72] RUBINSTEIN, PAUL, US
[72] PUHLMANN, MARKUS, US
[71] SEAGEN INC., US
[71] RUBINSTEIN, PAUL, US
[85] 2022-05-03
[86] 2020-11-02 (PCT/US2020/058510)
[87] (WO2021/091815)
[30] US (62/930,342) 2019-11-04

[21] **3,160,152**
[13] A1

[51] **Int.Cl. G02B 5/12 (2006.01) F21V 8/00 (2006.01) G02B 6/10 (2006.01)**
[25] EN
[54] **LINEAR OPTICAL CAVITY ARRAY LIGHT GUIDE**
[54] **GUIDE DE LUMIERE A RESEAU DE CAVITES OPTIQUES LINEAIRES**
[72] WHITEHEAD, LORNE A., CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2022-05-04
[86] 2020-11-06 (PCT/CA2020/051509)
[87] (WO2021/087617)
[30] US (62/932,555) 2019-11-08

[21] **3,160,156**
[13] A1

[51] **Int.Cl. C09J 175/08 (2006.01) A61K 9/00 (2006.01) A61K 47/34 (2017.01) C09J 167/00 (2006.01)**
[25] EN
[54] **WATER SOLUBLE BIOADHESIVES**
[54] **BIOADHESIFS SOLUBLES DANS L'EAU**
[72] SANTERRE, PAUL, CA
[72] SONE, ELI, CA
[72] FLOROS, MICHAEL, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2022-05-04
[86] 2020-12-21 (PCT/CA2020/051784)
[87] (WO2021/119855)
[30] GB (1919026.3) 2019-12-20

[21] **3,160,157**
[13] A1

[51] **Int.Cl. H04N 7/18 (2006.01) H04N 9/47 (2006.01)**
[25] EN
[54] **INLINE POOL/SPA MONITORING DEVICE AND SYSTEM INCLUDING POOL/SPA PUMP OPERATION DETERMINATION AND ASSOCIATED METHODS**
[54] **DISPOSITIF ET SYSTEME DE SURVEILLANCE DE PISCINE/SPA EN LIGNE COMPRENANT UNE DETERMINATION DE FONCTIONNEMENT DE POMPE DE PISCINE/SPA ET PROCEDES ASSOCIES**
[72] EKLUND, SCOTT, US
[72] KENNEDY, JOSHUA, US
[72] MILLER, JUSTIN, US
[72] RENKEN, TROY, US
[72] TESSITORE, JOSEPH, US
[71] HAYWARD INDUSTRIES, INC., US
[85] 2022-05-03
[86] 2020-10-29 (PCT/US2020/058058)
[87] (WO2021/091773)
[30] US (62/930,304) 2019-11-04

[21] **3,160,158**
[13] A1

[51] **Int.Cl. B01J 37/08 (2006.01)**
[25] EN
[54] **IMPROVED PROCESS FOR THE COMMERCIAL PRODUCTION OF HIGH-QUALITY CATALYST MATERIALS**
[54] **PROCEDE AMELIORE DE PRODUCTION COMMERCIALE DE MATERIAUX CATALYSEURS DE HAUTE QUALITE**
[72] SCHUETZLE, ROBERT, US
[72] SCHUETZLE, DENNIS, US
[71] GREYROCK TECHNOLOGY, LLC, US
[85] 2022-05-03
[86] 2020-12-01 (PCT/US2020/000046)
[87] (WO2021/112890)
[30] US (16/602,770) 2019-12-04

[21] **3,160,159**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **ANTIBODY-DRUG CONJUGATES TARGETING CLAUDIN 18.2**
[54] **CONJUGUES ANTICORPS-MEDICAMENT CIBLANT CLAUDINE 18,2**
[72] LI, RUNSHENG, CN
[71] LANOVA MEDICINES LIMITED, CN
[85] 2022-05-04
[86] 2020-11-05 (PCT/CN2020/126780)
[87] (WO2021/088927)
[30] CN (PCT/CN2019/115760) 2019-11-05

PCT Applications Entering the National Phase

[21] **3,160,162**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY WITH ANTI-PVRIG ANTIBODIES FORMULATIONS AND ANTI-PD-1 ANTIBODIES**

[54] **POLYTHERAPIE AVEC DES FORMULATIONS D'ANTICORPS ANTI-PVRIG ET D'ANTICORPS ANTI-PD-1**

[72] ADEWOYE, ADEBOYE HENRY, IL
[72] HUNTER, JOHN, IL
[72] COHEN DAYAG, ANAT, IL
[72] BASCIANO, PAUL A., IL
[72] LAMON, BRIAN D., IL
[71] COMPUGEN LTD., IL
[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2022-05-04
[86] 2020-07-28 (PCT/US2020/043917)
[87] (WO2021/091605)
[30] US (62/930,211) 2019-11-04
[30] US (62/968,641) 2020-01-31
[30] US (63/009,364) 2020-04-13

[21] **3,160,163**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 51/10 (2006.01) C07K 16/24 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **ANTIBODIES TO CD3 AND BCMA, AND BISPECIFIC BINDING PROTEINS MADE THEREFROM**

[54] **ANTICORPS ANTI-CD3 ET ANTI-BCMA, ET PROTEINES DE LIAISON BISPECIFIQUES FABRIQUEES A PARTIR DE CEUX-CI**

[72] WU, CHENGBIN, CN
[72] WU, DANQING, CN
[72] HUANG, LINI, CN
[72] ZHANG, AMIN, CN
[72] SHUAI, ZHENGRONG, CN
[72] ZHANG, RUI, CN
[72] GONG, SHIYONG, CN
[72] WU, XUAN, CN
[71] SHANGHAI EPIMAB BIOTHERAPEUTICS CO., LTD., CN

[85] 2022-05-04
[86] 2020-11-26 (PCT/CN2020/131767)
[87] (WO2021/104371)
[30] CN (PCT/CN2019/120991) 2019-11-26
[30] CN (PCT/CN2020/111796) 2020-08-27

[21] **3,160,166**
[13] A1

[51] **Int.Cl. H01R 13/66 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **ELECTRIC VEHICLE (EV) EXTERNAL POWER PORT DEVICE, SYSTEM, AND VEHICLE WITH POWER PORT DEVICE**

[54] **DISPOSITIF A PORT D'ALIMENTATION EXTERNE DE VEHICULE ELECTRIQUE (EV), SYSTEME ET VEHICULE AVEC DISPOSITIF A PORT D'ALIMENTATION**

[72] STANFIELD, JAMES RICHARD, US
[72] MOORE, BRUCE CLARK, US
[71] THE NOCO COMPANY, US

[85] 2022-05-04
[86] 2020-11-02 (PCT/US2020/058485)
[87] (WO2021/091811)
[30] US (62/930,672) 2019-11-05

[21] **3,160,168**
[13] A1

[51] **Int.Cl. H04R 15/00 (2006.01)**

[25] EN

[54] **HEARING AID FOR PEOPLE HAVING ASYMMETRIC HEARING LOSS**

[54] **AIDE AUDITIVE POUR PERSONNES AYANT UNE PERTE AUDITIVE ASYMETRIQUE**

[72] FRITSCH, MICHAEL H., US
[71] EAR TECH LLC, US

[85] 2022-05-04
[86] 2020-12-31 (PCT/US2020/067609)
[87] (WO2021/092602)
[30] US (16/740,414) 2020-01-11

[21] **3,160,172**
[13] A1

[51] **Int.Cl. C12N 15/861 (2006.01) A61P 7/06 (2006.01) C12N 9/22 (2006.01)**

[25] EN

[54] **TARGETED INTEGRATION AT ALPHA-GLOBIN LOCUS IN HUMAN HEMATOPOIETIC STEM AND PROGENITOR CELLS**

[54] **INTEGRATION CIBLEE AU NIVEAU DU LOCUS DE L'ALPHA-GLOBINE DANS DES CELLULES PROGENITRICES ET SOUCHES HEMATOPOIETIQUES HUMAINES**

[72] PORTEUS, MATTHEW H., US
[72] CROMER, MICHAEL KYLE, US
[72] DEVER, DANIEL P., US
[72] CAMARENA, JOAB, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US

[85] 2022-05-04
[86] 2020-11-13 (PCT/US2020/060586)
[87] (WO2021/097350)
[30] US (62/936,248) 2019-11-15

[21] **3,160,176**
[13] A1

[51] **Int.Cl. A61N 1/44 (2006.01) H01T 23/00 (2006.01)**

[25] EN

[54] **A METHOD AND AN APPARATUS FOR GENERATING A PARTICLE WAVE CARRYING AN ELECTRIC CHARGE**

[54] **APPAREIL ET PROCEDE POUR GENERER UNE ONDE DE PARTICULES PORTANT UNE CHARGE ELECTRIQUE**

[72] LIU, YANBING, CN
[71] LIU, YANBING, CN

[85] 2022-05-04
[86] 2020-12-14 (PCT/CN2020/136194)
[87] (WO2021/089058)
[30] CN (201911067751.4) 2019-11-04
[30] CN (201911421705.X) 2019-12-31

Demandes PCT entrant en phase nationale

[21] **3,160,178**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **USES OF ANTI-BCMA CHIMERIC ANTIGEN RECEPTORS**

[54] **UTILISATIONS DE RECEPTEURS D'ANTIGENES CHIMERIQUES ANTI-BCMA**

[72] CAMPBELL, TIMOTHY, US

[72] HAUSE, RONALD, US

[72] HEGE, KRISTEN, US

[72] JIANG, YUE, US

[72] KAISER, SHARI, US

[72] THOMPSON, ETHAN, US

[72] FULLER, JAYMES, US

[72] MARTIN, NATHAN, US

[72] LIU, RONG, US

[72] DELL'ARINGA, JUSTINE, US

[71] CELGENE CORPORATION, US

[71] JUNO THERAPEUTICS, INC., US

[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2022-05-04

[86] 2020-11-04 (PCT/US2020/058835)

[87] (WO2021/091978)

[30] US (62/931,077) 2019-11-05

[30] US (62/944,938) 2019-12-06

[30] US (62/952,186) 2019-12-20

[30] US (63/024,252) 2020-05-13

[30] US (63/037,471) 2020-06-10

[21] **3,160,179**
[13] A1

[51] **Int.Cl. A42B 3/32 (2006.01) A42B 3/04 (2006.01)**

[25] EN

[54] **SIZE ADAPTIVE PROTECTIVE HEADGEAR**

[54] **CASQUE DE PROTECTION DE TAILLE ADAPTATIVE**

[72] AGUSTSSON, HARALDUR, GB

[71] GLOBUS (SHETLAND) LTD., GB

[85] 2022-05-04

[86] 2020-11-04 (PCT/EP2020/080959)

[87] (WO2021/089619)

[30] GB (1916003.5) 2019-11-04

[21] **3,160,182**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**

[25] EN

[54] **SECURITY BAG**

[54] **ETIQUETTE DE SECURITE**

[72] LUKAN, SEAN, US

[72] IRELAND, VINCENT, US

[71] RAI STRATEGIC HOLDINGS, INC., US

[85] 2022-05-04

[86] 2020-10-27 (PCT/US2020/057499)

[87] (WO2021/101673)

[30] US (62/937,003) 2019-11-18

[21] **3,160,183**
[13] A1

[51] **Int.Cl. E01F 8/00 (2006.01) E04B 2/02 (2006.01) E04H 17/14 (2006.01)**

[25] EN

[54] **CONSTRUCTIVE ASSEMBLY**

[54] **ENSEMBLE DE CONSTRUCTION**

[72] ESCRIBANO BAEYENS, ANTONIO JOSE, ES

[71] CERAMICA MALPESA, S.A., ES

[85] 2022-05-04

[86] 2020-11-05 (PCT/EP2020/081050)

[87] (WO2021/089669)

[30] EP (19382966.0) 2019-11-05

[21] **3,160,186**
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01) C12N 15/113 (2010.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR RNA-ENCODED DNA-REPLACEMENT OF ALLELES**

[54] **COMPOSITIONS ET PROCEDES DE REMPLACEMENT D'ALLELES D'ADN CODE PAR L'ARN**

[72] WATTS, JOSEPH MATTHEW, US

[72] HUMMEL, AARON, US

[72] KIM, YONGJOO, US

[72] LAWIT, SHAI JOSHUA, US

[72] SCHWARK, DAVID, US

[71] PAIRWISE PLANTS SERVICES, INC., US

[85] 2022-05-04

[86] 2020-11-05 (PCT/US2020/059045)

[87] (WO2021/092130)

[30] US (62/930,836) 2019-11-05

[21] **3,160,187**
[13] A1

[51] **Int.Cl. G01N 21/41 (2006.01) G01N 21/47 (2006.01) G01N 21/77 (2006.01) G01N 21/81 (2006.01)**

[25] EN

[54] **SPLIT REFRACTING OR SPLIT REFLECTING LIGHT RECEIVED BY CELLULOSE-BASED FILM COMPRISING SURFACE PATTERN**

[54] **REFRACTION DIVISEE OU REFLEXION DIVISEE DE LUMIERE RECUE PAR UN FILM A BASE DE CELLULOSE COMPRENANT UN MOTIF DE SURFACE**

[72] MAKELA, TAPIO, FI

[72] HOKKANEN, ARI, FI

[71] TEKNOLOGIAN TUTKIMUSKESKUS VTT OY, FI

[85] 2022-05-04

[86] 2020-11-05 (PCT/FI2020/050731)

[87] (WO2021/089921)

[30] FI (20195952) 2019-11-05

[21] **3,160,189**
[13] A1

[51] **Int.Cl. A61B 18/20 (2006.01) A61N 5/067 (2006.01)**

[25] EN

[54] **FEEDBACK DETECTION FOR A TREATMENT DEVICE**

[54] **DETECTION DE RETROACTION POUR UN DISPOSITIF DE TRAITEMENT**

[72] BHAWALKAR, JAYANT, US

[72] KATKAM, RAJENDER, US

[72] LEVINE, LEWIS J., US

[72] DRESSER, CHARLES HOLLAND, US

[71] AVAVA, INC., US

[85] 2022-05-03

[86] 2020-11-10 (PCT/US2020/059842)

[87] (WO2021/096863)

[30] US (62/934,583) 2019-11-13

PCT Applications Entering the National Phase

[21] **3,160,192**
[13] A1

[51] **Int.Cl. G06Q 50/28 (2012.01) G06Q 10/08 (2012.01) G16Y 30/00 (2020.01) G06N 3/02 (2006.01)**

[25] EN

[54] **CONTROL TOWER AND ENTERPRISE MANAGEMENT PLATFORM FOR VALUE CHAIN NETWORKS**

[54] **TOUR DE COMMANDE ET PLATEFORME DE GESTION D'ENTREPRISE POUR RESEAUX A CHAINE DE VALEURS**

[72] CELLA, CHARLES HOWARD, US

[72] SPITZ, RICHARD, US

[72] EL-TAHRY, TEYMOUR S., US

[72] CARDNO, ANDREW, US

[72] PARENTI, JENNA, US

[72] BLIVEN, BRENT, US

[72] DOBROWITSKY, JOSHUA, US

[71] STRONG FORCE VCN PORTFOLIO 2019, LLC, US

[85] 2022-05-04

[86] 2020-11-05 (PCT/US2020/059227)

[87] (WO2021/092263)

[30] US (62/931,193) 2019-11-05

[30] US (62/969,153) 2020-02-03

[30] US (63/016,976) 2020-04-28

[30] US (63/054,606) 2020-07-21

[30] US (63/069,533) 2020-08-24

[30] US (63/087,292) 2020-10-04

[21] **3,160,198**
[13] A1

[51] **Int.Cl. B29C 70/52 (2006.01) B29B 15/12 (2006.01) B29C 70/54 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURING A COMPOSITE MATERIAL**

[54] **PROCEDE DE FABRICATION D'UN MATERIAU COMPOSITE**

[72] KIILUNEN, ERIK JOHN, US

[72] KERANEN, KENNETH BRIAN, US

[72] KERO, MATTHEW PAUL, US

[71] NEUVOKAS CORPORATION, US

[85] 2022-05-03

[86] 2020-11-12 (PCT/US2020/060182)

[87] (WO2021/097058)

[30] US (62/934,158) 2019-11-12

[21] **3,160,201**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61F 2/02 (2006.01) A61K 35/50 (2015.01)**

[25] EN

[54] **PLACENTAL TISSUE PARTICULATE COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS PARTICULAIRES DE TISSU PLACENTAIRE ET METHODES D'UTILISATION**

[72] PAVESIO, ALESSANDRA, US

[72] FLANNERY, CARL, US

[72] SEAMAN, SCOTT, US

[72] NASERT, MICHAEL A., US

[72] SEMLER, ERIC J., US

[72] LONG, MARC, US

[71] BIOVENTUS, LLC, US

[71] MUSCULOSKELETAL TRANSPLANT FOUNDATION, US

[85] 2022-05-03

[86] 2020-11-13 (PCT/US2020/060393)

[87] (WO2021/101802)

[30] US (62/938,472) 2019-11-21

[21] **3,160,202**
[13] A1

[51] **Int.Cl. B67D 1/14 (2006.01) B67D 7/78 (2010.01) B67D 1/00 (2006.01) F16K 11/10 (2006.01) F16K 11/14 (2006.01) F16K 41/04 (2006.01) F16K 41/06 (2006.01)**

[25] EN

[54] **O-RING RETAINING APPARATUS FOR A BAR GUN**

[54] **APPAREIL DE RETENUE DE JOINT TORIQUE POUR UN PISTOLET DE BAR**

[72] YANES, GILBERT, US

[72] CERVANTES, JOSE, US

[72] KIRCHBERG, JOSEPH PAUL, US

[71] TAPRITE, INC., US

[85] 2022-05-03

[86] 2020-11-16 (PCT/US2020/060787)

[87] (WO2021/097451)

[30] US (62/936,194) 2019-11-15

[21] **3,160,203**
[13] A1

[51] **Int.Cl. E21B 49/00 (2006.01)**

[25] EN

[54] **WELL ANNULUS PRESSURE MONITORING**

[54] **SURVEILLANCE DE PRESSION D'ESPACE ANNULAIRE DE Puits**

[72] HOEIE, BJOERNAR, US

[72] HIIM, TORE MORTEN, US

[71] CONOCOPHILLIPS COMPANY, US

[85] 2022-05-03

[86] 2020-11-18 (PCT/US2020/061106)

[87] (WO2021/102037)

[30] US (62/938,814) 2019-11-21

[30] US (16/951,835) 2020-11-18

[21] **3,160,205**
[13] A1

[51] **Int.Cl. G02B 17/08 (2006.01) G02B 21/00 (2006.01) G02B 21/04 (2006.01)**

[25] EN

[54] **CATADIOPTRIC MICROSCOPY**

[54] **MICROSCOPIE CATADIOPTRIQUE**

[72] KELLER, PHILIPP JOHANNES, US

[72] FLICKINGER, DANIEL ARTHUR, US

[72] WANG, BENQUAN, US

[71] HOWARD HUGHES MEDICAL INSTITUTE, US

[85] 2022-05-04

[86] 2020-06-17 (PCT/US2020/038111)

[87] (WO2021/101592)

[30] US (62/939,380) 2019-11-22

[21] **3,160,207**
[13] A1

[51] **Int.Cl. A61P 37/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **TREATMENT FOR SJOGREN'S SYNDROME**

[54] **TRAITEMENT DU SYNDROME DE SJOGREN**

[72] BALTCHEVA, IRINA, CH

[72] HUEBER, WOLFGANG, CH

[72] OLIVER, STEPHEN, CH

[72] PETRICOUL, OLIVIER, CH

[71] NOVARTIS AG, CH

[85] 2022-05-04

[86] 2020-10-23 (PCT/US2020/057184)

[87] (WO2021/091706)

[30] US (62/931,292) 2019-11-06

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[21] **3,160,208**
[13] A1

[51] **Int.Cl. C07K 1/18 (2006.01) C07K 1/14 (2006.01) C07K 16/00 (2006.01) C07K 16/46 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **HIGH SALT WASHES DURING CATION EXCHANGE CHROMATOGRAPHY TO REMOVE PRODUCT-RELATED IMPURITIES**

[54] **SOLUTIONS DE LAVAGE A HAUTE TENEUR EN SEL PENDANT UNE CHROMATOGRAPHIE PAR ECHANGE DE CATIONS POUR ELIMINER DES IMPURETES LIEES AU PRODUIT**

[72] AMBHAIKAR, MALHAR R., US
[72] DIAZ, LUIS, US
[72] GOMEZ, NATALIA, US
[72] TILLOTSON, BENJAMIN J., US
[71] AMGEN INC., US
[85] 2022-05-04
[86] 2020-11-04 (PCT/US2020/058774)
[87] (WO2021/091933)
[30] US (62/931,874) 2019-11-07

[21] **3,160,211**
[13] A1

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

[25] EN

[54] **METHODS AND KITS FOR QUANTITATING RADIATION EXPOSURE**

[54] **PROCEDES ET KITS DE QUANTIFICATION D'EXPOSITION A UN RAYONNEMENT**

[72] KANJANANIMMANONT, SUNSANEE, US
[72] KUMAR, SUDEEP, US
[72] MANJULA, NAVARATNAM, US
[72] BARBERO, SIMONE, US
[72] STENGELIN, MARTIN, US
[72] SIGAL, GEORGE, US
[71] MESO SCALE TECHNOLOGIES, LLC., US
[85] 2022-05-04
[86] 2020-11-04 (PCT/US2020/058866)
[87] (WO2021/092004)
[30] US (62/931,053) 2019-11-05
[30] US (62/947,731) 2019-12-13

[21] **3,160,213**
[13] A1

[51] **Int.Cl. C01G 43/00 (2006.01) B01J 19/12 (2006.01) C01G 43/01 (2006.01)**

[25] EN

[54] **PREPARATION OF ACID-DEFICIENT URANYL NITRATE SOLUTIONS**

[54] **PREPARATION DE SOLUTIONS DE NITRATE D'URANYLE PAUVRE EN ACIDE**

[72] BROWN, DANIEL, US
[72] LINNEEN, NICHOLAS, US
[71] X ENERGY, LLC, US
[85] 2022-05-04
[86] 2020-11-04 (PCT/US2020/058892)
[87] (WO2021/118718)
[30] US (17/088,784) 2019-11-04
[30] US (62/930,172) 2019-11-04

[21] **3,160,283**
[13] A1

[51] **Int.Cl. A61B 5/055 (2006.01) A61K 9/72 (2006.01) A61K 31/16 (2006.01) A61K 31/164 (2006.01) A61K 31/17 (2006.01)**

[25] EN

[54] **USE OF MAGNETIC RESONANCE SPECTROSCOPY TO CALIBRATE AND SELECT DOSES, FORMULATIONS, AND DEVICES FOR INTRA-NASAL ADMINISTRATION OF N-ACETYLCYSTEINE**

[54] **UTILISATION DE LA SPECTROSCOPIE PAR RESONANCE MAGNETIQUE POUR ETALONNER ET SELECTIONNER DES DOSES, DES DISPOSITIFS POUR L'ADMINISTRATION INTRANASALE DE N-ACETYLCYSTEINE**

[72] GREENE, DOUGLAS A., US
[71] NEURONASAL, INC., US
[85] 2022-05-04
[86] 2020-11-04 (PCT/US2020/058905)
[87] (WO2021/092026)
[30] US (62/930,473) 2019-11-04

[21] **3,160,285**
[13] A1

[51] **Int.Cl. C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12P 3/00 (2006.01)**

[25] FR

[54] **MONOMER POLYPEPTIDE HAVING HYDROGENASE ACTIVITY, IN PARTICULAR RECOMBINANT MONOMER POLYPEPTIDE HAVING HYDROGENASE ACTIVITY**

[54] **POLYPEPTIDE MONOMERIQUE PRESENTANT UNE ACTIVITE HYDROGENASE, EN PARTICULIER POLYPEPTIDE MONOMERIQUE RECOMBINANT PRESENTANT UNE ACTIVITE HYDROGENASE**

[72] GODAUX, DAMIEN, BE
[72] LORGE, PHILIPPE, BE
[72] GHYSELS, BART, BE
[72] JOB, NATHALIE, BE
[72] FRANCK, FABRICE, BE
[72] CALDARELLA, GIUSEPPE, BE
[72] CARDOL, PIERRE, BE
[72] REMACLE, CLAIRE, BE
[71] H2WIN S.A., BE
[85] 2022-05-04
[86] 2020-11-12 (PCT/EP2020/081931)
[87] (WO2021/094465)
[30] EP (19208856.5) 2019-11-13
[30] BE (2019/5783) 2019-11-13

[21] **3,160,287**
[13] A1

[51] **Int.Cl. A61B 17/86 (2006.01) A61B 17/70 (2006.01)**

[25] FR

[54] **TRANSPEDICULAR ANCHORING SCREW WITH REINFORCED SECONDARY STABILITY**

[54] **VIS D'ANCRAGE TRANSPEDICULAIRE A STABILITE SECONDAIRE RENFORCEE**

[72] GRAZIANI, NOEL, FR
[72] LEVRIER, OLIVIER, FR
[71] SPINEDUST, FR
[85] 2022-05-04
[86] 2020-11-05 (PCT/FR2020/052000)
[87] (WO2021/089944)
[30] FR (FR1912517) 2019-11-07

PCT Applications Entering the National Phase

<p style="text-align: center;">[21] 3,160,289 [13] A1</p> <p>[51] Int.Cl. B07C 5/00 (2006.01) G01N 21/35 (2014.01) G01N 23/083 (2018.01)</p> <p>[25] EN</p> <p>[54] MATERIAL ANALYSIS AND SEPARATION SYSTEM FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION AND MATERIAL ANALYSIS AND SEPARATION METHOD FOR THE DETERMINATION OF THEIR CHEMICAL COMPOSITION</p> <p>[54] SYSTEME D'ANALYSE ET DE SEPARATION DE MATERIAU A DES FINS DE DETERMINATION DE SA COMPOSITION CHIMIQUE ET PROCEDE D'ANALYSE ET DE SEPARATION DE MATERIAU A DES FINS DE DETERMINATION DE SA COMPOSITION CHIMIQUE</p> <p>[72] KOLACZ, JACEK, PL</p> <p>[71] COMEX POLSKA SP. Z O.O., PL</p> <p>[85] 2022-05-03</p> <p>[86] 2020-08-14 (PCT/PL2020/000068)</p> <p>[87] (WO2022/035331)</p>	<p style="text-align: center;">[21] 3,160,292 [13] A1</p> <p>[51] Int.Cl. A43B 13/12 (2006.01) A43B 7/14 (2022.01) A43B 13/14 (2006.01) A43B 13/37 (2006.01)</p> <p>[25] EN</p> <p>[54] SHOE WITH SOLE PROVIDING A DYNAMIC FOOT ARCH SUPPORT</p> <p>[54] CHAUSSURE AVEC SEMELLE FOURNISSANT UN SUPPORT DYNAMIQUE DE LA VOUTE PLANTAIRE</p> <p>[72] ENGELL, HAVARD, NO</p> <p>[71] GAITLINE AS, NO</p> <p>[85] 2022-05-03</p> <p>[86] 2020-11-13 (PCT/NO2020/050279)</p> <p>[87] (WO2021/112683)</p> <p>[30] NO (20191442) 2019-12-06</p>	<p style="text-align: center;">[21] 3,160,295 [13] A1</p> <p>[51] Int.Cl. A61K 35/744 (2015.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01) A23L 33/17 (2016.01) A61P 1/00 (2006.01) A61P 3/00 (2006.01)</p> <p>[25] EN</p> <p>[54] COMPOSITIONS COMPRISING BACTERIAL STRAINS FOR USE IN INCREASING THE BIOAVAILABILITY OF AMINO ACIDS DERIVED FROM PROTEINS</p> <p>[54] COMPOSITIONS COMPRENANT DES SOUCHES BACTERIENNES DESTINEES A ETRE UTILISEES POUR AUGMENTER LA BIODISPONIBILITE D'ACIDES AMINES DERIVES DE PROTEINES</p> <p>[72] BIFFI, ANDREA, IT</p> <p>[72] FIORE, WALTER, IT</p> <p>[71] SOFAR S.P.A., IT</p> <p>[85] 2022-05-04</p> <p>[86] 2020-11-05 (PCT/IB2020/060412)</p> <p>[87] (WO2021/090228)</p> <p>[30] IT (102019000020422) 2019-11-05</p>
<p style="text-align: center;">[21] 3,160,291 [13] A1</p> <p>[51] Int.Cl. E03B 3/28 (2006.01) F24F 11/41 (2018.01) B01D 5/00 (2006.01) B01D 53/26 (2006.01) C02F 1/22 (2006.01) C09K 5/02 (2006.01) C09K 5/04 (2006.01) C09K 5/06 (2006.01) F24F 3/14 (2006.01) F25B 39/02 (2006.01) F25B 39/04 (2006.01) F25D 21/00 (2006.01) F25D 21/06 (2006.01) F25D 21/14 (2006.01) F28D 20/02 (2006.01)</p> <p>[25] EN</p> <p>[54] DEVICE FOR HARVESTING ATMOSPHERIC WATER VAPOUR</p> <p>[54] DISPOSITIF POUR RECUPERER DE LA VAPEUR D'EAU ATMOSPHERIQUE</p> <p>[72] STEWART LANG, DANIEL, MX</p> <p>[71] HERNANDEZ MAYEN, ALFONSO, MX</p> <p>[71] CONSOLIDANDO EL PATRIMONIO, S.A.P.I. DE C.V., MX</p> <p>[71] HEALIXA, INC., US</p> <p>[85] 2022-05-03</p> <p>[86] 2020-11-09 (PCT/MX2020/050039)</p> <p>[87] (WO2021/096343)</p> <p>[30] MX (MX/a/2020/001916) 2019-11-12</p>	<p style="text-align: center;">[21] 3,160,293 [13] A1</p> <p>[51] Int.Cl. A61B 17/68 (2006.01) A61B 17/72 (2006.01) A61B 17/86 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR TREATING A BONE</p> <p>[54] SYSTEME ET PROCEDE DE TRAITEMENT D'UN OS</p> <p>[72] SPREITER, GREGOR, CH</p> <p>[72] DEFOSSEZ, HENRI, CH</p> <p>[72] SCHERRER, SIMON, CH</p> <p>[71] DEPUY SYNTHES PRODUCTS, INC., US</p> <p>[85] 2022-05-04</p> <p>[86] 2020-11-04 (PCT/IB2020/060378)</p> <p>[87] (WO2021/090211)</p> <p>[30] US (16/675,863) 2019-11-06</p>	<p style="text-align: center;">[21] 3,160,296 [13] A1</p> <p>[51] Int.Cl. C12N 5/00 (2006.01) A61K 35/17 (2015.01) A61K 35/28 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)</p> <p>[25] EN</p> <p>[54] USE OF VETO CELLS FOR THE TREATMENT OF SICKLE CELL DISEASE</p> <p>[54] UTILISATION DE CELLULES VETO POUR LE TRAITEMENT DE LA DREPANOCYTOSE</p> <p>[72] REISNER, YAIR, US</p> <p>[72] SINGH, ALOUKICK KUMAR, IL</p> <p>[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL</p> <p>[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US</p> <p>[85] 2022-05-04</p> <p>[86] 2020-11-05 (PCT/IL2020/051151)</p> <p>[87] (WO2021/090320)</p> <p>[30] US (62/930,634) 2019-11-05</p>

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[21] **3,160,298**
[13] A1

[51] **Int.Cl. C12N 1/21 (2006.01) A01H 6/28 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6895 (2018.01) A01N 63/50 (2020.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01P 3/00 (2006.01) C07K 14/415 (2006.01) C12N 1/19 (2006.01) C12N 9/24 (2006.01) C12N 15/29 (2006.01) C12N 15/56 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MATERIALS AND METHODS FOR DETECTING PATHOGEN LOAD**
[54] **MATERIAUX ET METHODES POUR DETECTER UNE CHARGE DE PATHOGENES**

[72] MCKERNAN, KEVIN, US
[72] LIU, BIAO, US
[71] MEDICINAL GENOMICS, US
[85] 2022-05-04
[86] 2020-11-05 (PCT/US2020/059207)
[87] (WO2021/092245)
[30] US (62/931,680) 2019-11-06
[30] US (62/951,820) 2019-12-20

[21] **3,160,299**
[13] A1

[51] **Int.Cl. G01V 1/30 (2006.01)**

[25] EN
[54] **HYDROCARBON EXPLORATION METHOD**
[54] **PROCEDE D'EXPLORATION D'HYDROCARBURES**

[72] VAN SCHAACK, MARK ALAN, NO
[72] OSTMO, SVEND, NO
[71] EQUINOR ENERGY AS, NO
[85] 2022-05-04
[86] 2020-11-03 (PCT/NO2020/050267)
[87] (WO2021/091393)
[30] GB (1916008.4) 2019-11-04

[21] **3,160,301**
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) A61K 35/17 (2015.01) A61K 35/28 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**

[25] EN
[54] **USE OF VETO CELLS IN TREATMENT OF T CELL MEDIATED AUTOIMMUNE DISEASES**
[54] **UTILISATION DE CELLULES VETO DANS LE TRAITEMENT DE MALADIES AUTO-IMMUNES A MEDIATION PAR LES LYMPHOCYTES T**

[72] REISNER, YAIR, US
[72] SIDLIK MUSKATEL, RAKEFET, IL
[72] NATHANSOHN-LEVI, BAR, IL
[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL
[85] 2022-05-04
[86] 2020-11-05 (PCT/IL2020/051152)
[87] (WO2021/090321)
[30] US (62/930,621) 2019-11-05

[21] **3,160,302**
[13] A1

[51] **Int.Cl. A61P 3/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN
[54] **METHOD OF TREATING OR AMELIORATING CUSHING'S SYNDROME USING BINDING PROTEINS FOR GASTRIC INHIBITORY PEPTIDE RECEPTOR (GIPR)**
[54] **METHODE DE TRAITEMENT OU D'AMELIORATION DU SYNDROME DE CUSHING A L'AIDE DE PROTEINES DE LIAISON POUR LE RECEPTEUR DU PEPTIDE INHIBITEUR GASTRIQUE (GIPR)**

[72] LLOYD, DAVID JOHN, US
[72] KILLION, ELIZABETH ANN, US
[72] SIVITS, JR., GLENN N., US
[71] AMGEN INC., US
[85] 2022-05-04
[86] 2020-11-09 (PCT/US2020/059647)
[87] (WO2021/092545)
[30] US (62/932,381) 2019-11-07

[21] **3,160,304**
[13] A1

[51] **Int.Cl. B25B 11/00 (2006.01) B27C 9/00 (2006.01)**

[25] EN
[54] **WOODWORKING VISE**
[54] **DISPOSITIF DE SERRAGE POUR LE TRAVAIL DU BOIS**

[72] LI, YUEMING, CN
[71] HANGZHOU UNITED TOOLS CO., LTD., CN
[71] HANGZHOU GREAT STAR INDUSTRIAL CO., LTD., CN
[85] 2022-04-28
[86] 2019-10-28 (PCT/CN2019/113594)
[87] (WO2021/081692)

[21] **3,160,305**
[13] A1

[51] **Int.Cl. A23L 33/12 (2016.01) A23L 33/15 (2016.01) A23P 10/30 (2016.01) A61K 9/50 (2006.01)**

[25] FR
[54] **FEED OR FEED SUPPLEMENT FOR LIVESTOCK ANIMALS**
[54] **ALIMENT OU COMPLEMENT ALIMENTAIRE POUR ANIMAUX D'ELEVAGE**

[72] EL HARRAK, ABDESLAM, FR
[72] CRETEL, CESAR ADRIEN CLAUDE RENE, FR
[71] HUDDLE CORP, FR
[85] 2022-05-05
[86] 2020-11-09 (PCT/FR2020/052042)
[87] (WO2021/089971)
[30] FR (FR1912521) 2019-11-07

[21] **3,160,306**
[13] A1

[51] **Int.Cl. B09B 3/00 (2022.01) B09B 5/00 (2006.01) C01F 11/00 (2006.01) C12M 1/00 (2006.01)**

[25] EN
[54] **ORGANIC WASTE TREATMENT**
[54] **TRAITEMENT DE DECHETS ORGANIQUES**

[72] CHIODINI, DANIELE, CA
[72] CRIPPA, MAURO, IT
[72] STUCCHI, STEFANO, IT
[71] ANDION GLOBAL INC., CA
[85] 2022-05-02
[86] 2019-11-06 (PCT/CA2019/051580)
[87] (WO2021/087597)

PCT Applications Entering the National Phase

[21] **3,160,307**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 11/00 (2006.01) C07D 401/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **SUBSTITUTED 1,5-NAPHTHYRIDINES OR QUINOLINES AS ALK5 INHIBITORS**

[54] **1,5-NAPHTHYRIDINES OU QUINOLEINES SUBSTITUEES EN TANT QU'INHIBITEURS D'ALK5**

[72] OWENS, CHRISTINA, US
[72] KULYK, SVITLANA, US
[72] SULLIVAN, STEVEN D. E., US
[72] ALLEGRETTI, PAUL, US
[72] LOO, MANDY, US
[72] KOZAK, JENNIFER, US
[72] ZHAO, CHEN, US
[72] FENSTER, ERIK, US
[72] HUGHES, ADAM D., US
[71] THERAVANCE BIOPHARMA R&D IP, LLC, US

[85] 2022-05-04
[86] 2020-11-20 (PCT/US2020/070806)
[87] (WO2021/102468)
[30] US (62/939,186) 2019-11-22
[30] US (63/035,100) 2020-06-05
[30] US (63/198,637) 2020-10-30

[21] **3,160,308**
[13] A1

[51] **Int.Cl. B22F 1/052 (2022.01) B82Y 30/00 (2011.01) B33Y 70/00 (2020.01) B22F 10/28 (2021.01) B22F 1/054 (2022.01)**

[25] EN

[54] **POWDER MATERIAL**

[54] **MATERIAU EN POUDRE**

[72] KAMIMOTO, ASAKO, JP
[72] ITO, YUKI, JP
[71] DAIDO STEEL CO., LTD., JP

[85] 2022-05-03
[86] 2020-11-06 (PCT/JP2020/041558)
[87] (WO2021/090918)
[30] JP (2019-203093) 2019-11-08
[30] JP (2020-176818) 2020-10-21

[21] **3,160,309**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/24 (2021.01) A61B 5/11 (2006.01)**

[25] EN

[54] **WEARABLE SENSOR DEVICE**

[54] **DISPOSITIF DE CAPTEUR PORTABLE**

[72] KUWABARA, KEI, JP
[72] TOKURA, AKIO, JP
[72] MATSUOKA, HIROTO, JP
[72] ISHIHARA, TAKAKO, JP
[72] OGASAWARA, TAKAYUKI, JP
[72] HASHIMOTO, YUKI, JP
[72] MATSUNAGA, KENICHI, JP
[72] WADA, TOSHIKI, JP
[72] TOGO, HIROYOSHI, JP
[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP

[85] 2022-05-04
[86] 2019-11-06 (PCT/JP2019/043410)
[87] (WO2021/090385)

[21] **3,160,310**
[13] A1

[51] **Int.Cl. A61K 38/07 (2006.01) A61K 38/08 (2019.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 7/06 (2006.01) C12N 9/99 (2006.01)**

[25] EN

[54] **POLYPEPTIDE HAVING MMP2-INHIBITORY EFFECT**

[54] **POLYPEPTIDE AYANT UN EFFET INHIBITEUR SUR LES MMP2**

[72] HAYASHI, MASATO, JP
[72] TAKEUCHI, TOMOKI, JP
[72] NOMURA, YUSAKU, JP
[72] TAMITA, TOMOKO, JP
[72] SHIMONO, RIE, JP
[71] TAISHO PHARMACEUTICAL CO., LTD., JP

[85] 2022-05-03
[86] 2020-11-06 (PCT/JP2020/042350)
[87] (WO2021/090959)
[30] JP (2019-203338) 2019-11-08

[21] **3,160,311**
[13] A1

[51] **Int.Cl. G01N 33/03 (2006.01)**

[25] EN

[54] **ASSESSING A QUALITY OF A COOKING MEDIUM IN A FRYER USING ARTIFICIAL INTELLIGENCE**

[54] **EVALUATION D'UNE QUALITE D'UN MILIEU DE CUISSON DANS UNE FRITEUSE A L'AIDE D'UNE INTELLIGENCE ARTIFICIELLE**

[72] TIRUMALA, RAMESH B., US
[72] PARIKH, HIMANSHU C., US
[71] ENODIS CORPORATION, US

[85] 2022-05-04
[86] 2020-12-17 (PCT/US2020/065519)
[87] (WO2021/127122)
[30] US (62/949,807) 2019-12-18

[21] **3,160,312**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/519 (2006.01) A61P 7/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY COMPRISING AN ALK2 INHIBITOR AND A JAK2 INHIBITOR**

[54] **POLYTHERAPIE COMPRENANT UN INHIBITEUR D'ALK2 ET UN INHIBITEUR DE JAK2**

[72] CHEN, YAOYU, US
[72] STUBBS, MATTHEW C., US
[72] CHEN, YING-NAN PAN, US
[72] PUSEY, MICHELLE, US
[71] INCYTE CORPORATION, US

[85] 2022-05-04
[86] 2020-11-20 (PCT/US2020/061497)
[87] (WO2021/102258)
[30] US (62/939,241) 2019-11-22
[30] US (62/980,562) 2020-02-24
[30] US (63/035,194) 2020-06-05
[30] US (63/056,768) 2020-07-27

Demandes PCT entrant en phase nationale

[21] **3,160,313**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61K 45/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY**
[54] **COMPOSITIONS ET METHODES POUR L'IMMUNOTHERAPIE**
[72] MOHAN, JAMES, US
[72] SICHEVA, MARISELLA PANDURO, US
[71] SURFACE ONCOLOGY, INC., US
[85] 2022-05-04
[86] 2020-11-13 (PCT/US2020/060524)
[87] (WO2021/097294)
[30] US (62/936,176) 2019-11-15

[21] **3,160,314**
[13] A1

[51] **Int.Cl. B32B 5/08 (2006.01) B32B 7/027 (2019.01) A61L 2/20 (2006.01) B32B 5/26 (2006.01) B32B 37/10 (2006.01) B65B 55/02 (2006.01) B65B 55/10 (2006.01) B65D 65/40 (2006.01) D04H 3/16 (2006.01) D04H 3/007 (2012.01)**
[25] EN
[54] **NONWOVEN FABRIC HAVING HIGH THERMAL RESISTANCE AND BARRIER PROPERTIES**
[54] **TISSU NON TISSE AYANT UNE RESISTANCE THERMIQUE ELEVEE ET DES PROPRIETES DE BARRIERE ELEVEES**
[72] WANG, LEI, US
[72] BISHOP, NYLE, US
[72] NIX, JONATHAN T., US
[72] TIANLEI, ZHANG, CN
[72] YONGJI, JIN, CN
[72] JUNYING, GAO, CN
[71] BERRY GLOBAL, INC., US
[85] 2022-05-04
[86] 2020-11-10 (PCT/US2020/059813)
[87] (WO2021/101751)
[30] US (62/936,826) 2019-11-18

[21] **3,160,316**
[13] A1

[51] **Int.Cl. A61K 38/08 (2019.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **PEPTIDES AND METHODS OF TREATING SEPSIS, ATHEROSCLEROSIS, THROMBOSIS, STROKE, HEART ATTACK AND INFLAMMATION**
[54] **PEPTIDES ET METHODES DE TRAITEMENT DU SEPSIS, DE L'ATHEROSCLEROSE, DE LA THROMBOSE, DE L'ACCIDENT VASCULAIRE CEREBRAL, DE L'ATTAQUE CARDIAQUE ET DE L'INFLAMMATION**
[72] DU, XIAOPING, US
[72] CHENG, NI, US
[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2022-05-04
[86] 2020-11-09 (PCT/US2020/059729)
[87] (WO2021/092580)
[30] US (62/932,024) 2019-11-07

[21] **3,160,318**
[13] A1

[51] **Int.Cl. B21D 26/035 (2011.01) B23K 26/38 (2014.01) B23P 23/04 (2006.01) B23P 25/00 (2006.01)**
[25] EN
[54] **MOLDING SYSTEM AND MOLDING METHOD**
[54] **SYSTEME DE MOULAGE ET PROCEDE DE MOULAGE**
[72] SAIKA, MASAYUKI, JP
[72] UENO, NORIEDA, JP
[71] SUMITOMO HEAVY INDUSTRIES, LTD., JP
[85] 2022-05-03
[86] 2021-03-05 (PCT/JP2021/008834)
[87] (WO2021/182359)
[30] JP (2020-040978) 2020-03-10

[21] **3,160,319**
[13] A1

[51] **Int.Cl. A61M 16/06 (2006.01)**
[25] EN
[54] **HEADGEAR WITH DIRECTIONAL ADJUSTMENT MECHANISM**
[54] **CASQUE DOTE D'UN MECANISME DE REGLAGE DE DIRECTION**
[72] KAPELEVICH, VITALY, NZ
[72] SIMS, CHRISTOPHER GARETH, NZ
[72] FELIX, DAVID MONROY, NZ
[72] MURPHY, BLAIR RAYMUND DADSON, NZ
[72] SLIGHT, MATTHEW ROBERT GEOFF, NZ
[72] SHAH, VIDHI JAYESHKUMAR, NZ
[72] MANIKKAM, KAVYN, NZ
[72] MANIKKAM, KAV, NZ
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2022-05-03
[86] 2020-11-13 (PCT/NZ2020/050152)
[87] (WO2021/096372)
[30] US (62/935,539) 2019-11-14

[21] **3,160,320**
[13] A1

[51] **Int.Cl. A23L 13/40 (2016.01) A23L 29/206 (2016.01)**
[25] EN
[54] **THYMOHYDROQUINONE BASED SYSTEM FOR HUMAN AND PET FOOD AND RELATED METHODS**
[54] **SYSTEME A BASE DE THYMOHYDROQUINONE POUR DES ALIMENTS DESTINES A L'HOMME ET AUX ANIMAUX DE COMPAGNIE ET PROCEDES ASSOCIES**
[72] BAN, LAN, US
[72] SHEN, CHIA-YU, US
[72] SCHROEDER, WILLIAM D., US
[72] JUNKER, KRISTEN R., US
[72] GILDERMASTER, YVONNE, US
[72] SZAJNA-FULLER, EWA, US
[72] WRAY, CARRIE, US
[71] KEMIN INDUSTRIES, INC., US
[85] 2022-05-05
[86] 2020-11-06 (PCT/US2020/059447)
[87] (WO2021/092411)
[30] US (62/933,103) 2019-11-08
[30] US (63/035,265) 2020-06-05

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[21] **3,160,321**
[13] A1

[51] **Int.Cl. E21D 21/00 (2006.01) E21D 20/02 (2006.01)**
[25] EN
[54] **ROCK BOLT**
[54] **BOULON D'ANCRAGE**
[72] EVANS, DAVID WILLIAM, AU
[71] DSI UNDERGROUND AUSTRALIA PTY LIMITED, AU
[85] 2022-05-05
[86] 2020-11-06 (PCT/AU2020/051215)
[87] (WO2021/087574)
[30] AU (2019904181) 2019-11-06

[21] **3,160,323**
[13] A1

[51] **Int.Cl. A61K 31/01 (2006.01) A61K 31/015 (2006.01) A61K 31/045 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DELIVERING CANNABINOIDS TO SKIN**
[54] **COMPOSITIONS ET PROCEDES D'ADMINISTRATION DE CANNABINOIDES A LA PEAU**
[72] CHAN, DIVA, US
[72] NUNES, ASHLEE, US
[72] OTERI, RO, US
[71] AMYRIS, INC., US
[85] 2022-05-04
[86] 2020-11-06 (PCT/US2020/059357)
[87] (WO2021/092340)
[30] US (62/931,978) 2019-11-07
[30] US (62/986,126) 2020-03-06
[30] US (62/986,228) 2020-03-06

[21] **3,160,325**
[13] A1

[51] **Int.Cl. H04W 24/02 (2009.01) H04W 36/00 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND COMMUNICATIONS APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] LI, BINGZHAO, CN
[72] JIANG, SENLEI, CN
[72] DU, JUN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-05-05
[86] 2019-11-07 (PCT/CN2019/116383)
[87] (WO2021/087901)

[21] **3,160,328**
[13] A1

[51] **Int.Cl. B65B 31/04 (2006.01) B65B 7/28 (2006.01)**
[25] EN
[54] **GASSING APPARATUS AND METHOD FOR GASSING A CONTAINER**
[54] **APPAREIL DE FOURNITURE DE GAZ ET PROCEDE DE FOURNITURE DE GAZ A UN RECIPIENT**
[72] DERENDINGER, PHILIPPE, CH
[71] FERRUM PACKAGING AG, CH
[85] 2022-05-05
[86] 2020-01-15 (PCT/EP2020/050851)
[87] (WO2021/144011)

[21] **3,160,329**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01)**
[25] EN
[54] **EXTRAHEPATIC DELIVERY**
[54] **ADMINISTRATION EXTRA-HEPATIQUE**
[72] NAIR, JAYAPRAKASH K., US
[72] MAIER, MARTIN A., US
[72] SALINAS, JUAN C., US
[72] MATSUDA, SHIGEO, US
[72] KEL'IN, ALEXANDER V., US
[72] LENTINI, SCOTT P., US
[72] HE, GUO, US
[72] JUNG, MICHELLE H., US
[72] PIERSON, JUSTIN M., US
[72] MANOHARAN, MUTHIAH, US
[72] GUENTHER, DALE C., US
[72] ZLATEV, IVAN, US
[72] THEILE, CHRISTOPHER S., US
[72] JADHAV, VASANT R., US
[72] MILSTEIN, STUART, US
[72] JANAS, MAJA, US
[72] DATTA, DHRUBAJYOTI, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[85] 2022-05-04
[86] 2020-11-06 (PCT/US2020/059399)
[87] (WO2021/092371)
[30] US (62/931,631) 2019-11-06

[21] **3,160,330**
[13] A1

[51] **Int.Cl. C08L 75/08 (2006.01) C08J 9/04 (2006.01) C08L 75/06 (2006.01) C08G 18/66 (2006.01)**
[25] EN
[54] **RIGID POLYURETHANE BASED FOAM WITH COMPRESSION STRENGTH AND FIRE RESISTANCE**
[54] **MOUSSE RIGIDE A BASE DE POLYURETHANE AYANT UNE RESISTANCE A LA COMPRESSION ET UNE RESISTANCE AU FEU**
[72] SCHUETTE, MARKUS, DE
[72] RENNER, CHRISTIAN, DE
[72] JACOBMEIER, OLAF, DE
[72] ZARBAKSH, SIRUS, DE
[71] BASF SE, DE
[85] 2022-05-05
[86] 2020-10-29 (PCT/EP2020/080345)
[87] (WO2021/089392)
[30] EP (19207519.0) 2019-11-06

[21] **3,160,331**
[13] A1

[51] **Int.Cl. A61K 31/69 (2006.01) A61P 35/00 (2006.01) C07F 5/02 (2006.01) C07H 23/00 (2006.01)**
[25] EN
[54] **APPLICATION OF BORON DIPYRROMETHENE DERIVATIVES IN ANTI-TUMOR AND ANTI-BACTERIAL THERAPY**
[54] **UTILISATION DE DERIVES DE DIPYRROMETHENE DE BORE DANS UNE THERAPIE ANTITUMORALE ET ANTI-BACTERIENNE**
[72] HOHLFELD, BENJAMIN FLORIAN, DE
[72] WIEHE, ARNO, DE
[72] GITTER, BURKHARD, DE
[72] STEEN, DORIK, DE
[72] WIELAND, GERHARD, DE
[72] ALBRECHT, VOLKER, DE
[71] BIOLITEC UNTERNEHMENS BETEILIGUNGS II AG, AT
[85] 2022-05-05
[86] 2020-11-05 (PCT/EP2020/081184)
[87] (WO2021/089730)
[30] US (62/930,933) 2019-11-05

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[21] **3,160,332**
[13] A1
[51] **Int.Cl. A61L 27/44 (2006.01) B29C 64/118 (2017.01) D01D 5/08 (2006.01)**
[25] EN
[54] **NON-BREAKING FILAMENT FOR SHAPING BONE AND DENTAL SUBSTITUTES**
[54] **FILAMENT INSECABLE POUR LA MISE EN FORME DE SUBSTITUTS OSSEUX ET DENTAIRE**
[72] RICHARD, GILLES, FR
[72] PHAM, DAI, FR
[71] SEPTODONT OU SEPTODONT SAS OU SPECIALITES SEPTODONT, FR
[85] 2022-05-05
[86] 2020-11-06 (PCT/EP2020/081320)
[87] (WO2021/089798)
[30] EP (19306452.4) 2019-11-08

[21] **3,160,334**
[13] A1
[51] **Int.Cl. C07D 209/16 (2006.01) A61K 31/4045 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOUNDS**
[54] **COMPOSES**
[72] RANDES, PETER, GB
[72] KNIGHT, GEORGE, GB
[72] CHUBB, RICHARD, GB
[72] LONDESBOURGH, DEREK, GB
[72] BENWAY, TIFFANIE, GB
[72] JOEL, ZELAH, GB
[71] SMALL PHARMA LTD, GB
[85] 2022-05-05
[86] 2020-11-09 (PCT/EP2020/081502)
[87] (WO2021/089872)
[30] GB (1916210.6) 2019-11-07
[30] GB (1917320.2) 2019-11-28
[30] GB (2008303.6) 2020-06-02

[21] **3,160,337**
[13] A1
[51] **Int.Cl. C07D 209/16 (2006.01) A61K 31/4045 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHOD OF SYNTHESIS**
[54] **PROCEDE DE SYNTHESE**
[72] RANDES, PETER, GB
[72] KNIGHT, GEORGE, GB
[72] CHUBB, RICHARD, GB
[72] LONDESBOURGH, DEREK, GB
[72] BENWAY, TIFFANIE, GB
[72] JOEL, ZELAH, GB
[71] SMALL PHARMA LTD, GB
[85] 2022-05-05
[86] 2020-11-09 (PCT/EP2020/081503)
[87] (WO2021/089873)
[30] GB (1916210.6) 2019-11-07
[30] GB (1917320.2) 2019-11-28
[30] GB (2008303.6) 2020-06-02

[21] **3,160,338**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01) C07K 14/54 (2006.01)**
[25] EN
[54] **THERAPEUTIC DERIVATIVES OF INTERLEUKIN-22**
[54] **DERIVES THERAPEUTIQUES DE L'INTERLEUKINE-22**
[72] SASS-ORUM, KRISTIAN, DK
[72] JORGENSEN, RASMUS, DK
[72] JORGENSEN, SEBASTIAN BECK, DK
[72] THOGERSEN, HENNING, DK
[72] SANDRINI, MICHAEL PAOLO BASTNER, DK
[71] CYTOKI PHARMA APS, DK
[85] 2022-05-05
[86] 2020-11-09 (PCT/EP2020/081523)
[87] (WO2021/089875)
[30] EP (19207766.7) 2019-11-07

[21] **3,160,345**
[13] A1
[51] **Int.Cl. C07K 14/59 (2006.01) A61K 38/24 (2006.01) A61P 3/00 (2006.01) A61P 5/06 (2006.01) A61P 15/08 (2006.01) C12N 5/10 (2006.01) C12N 15/16 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **MODIFIED FOLLICLE-STIMULATING HORMONE AND METHODS OF USING THE SAME**
[54] **HORMONE DE STIMULATION FOLLICULAIRE MODIFIEE ET PROCEDES D'UTILISATION ASSOCIES**
[72] KUMAR, T. RAJENDRA, US
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[85] 2022-05-04
[86] 2020-11-06 (PCT/US2020/059382)
[87] (WO2021/092358)
[30] US (62/931,402) 2019-11-06

[21] **3,160,354**
[13] A1
[51] **Int.Cl. B61B 12/00 (2006.01) B61B 12/02 (2006.01) B62H 3/00 (2006.01)**
[25] EN
[54] **CABLE WITH TRANSPORT VEHICLE FOR CONVEYING AN OBJECT**
[54] **TRANSPORT PAR CABLE AVEC VEHICULE DE TRANSPORT POUR LE TRANSPORT D'UN OBJET**
[72] TRITTLER, FLORIAN, AT
[72] SCHONENBERGER, MARTIN, CH
[71] INNOVA PATENT GMBH, AT
[85] 2022-05-05
[86] 2020-11-11 (PCT/EP2020/081688)
[87] (WO2021/094338)
[30] AT (A50968/2019) 2019-11-12

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[21] **3,160,359**
[13] A1

[51] **Int.Cl. C08L 33/08 (2006.01) C09D 7/63 (2018.01) C08K 5/00 (2006.01) C08L 25/14 (2006.01) C09D 5/02 (2006.01) C09D 15/00 (2006.01) C09D 125/14 (2006.01) C09D 133/08 (2006.01)**

[25] EN
[54] **WOOD COATING FORMULATION FORMULATION DE REVETEMENT DE BOIS**
[72] ANSELMO DOS SANTOS ROCHA, GLEIKON, BR
[72] GREIPEL, DOUGLAS, BR
[72] MAYER DE OLIVEIRA, JORGE, BR
[71] ARCHROMA IP GMBH, CH
[85] 2022-05-05
[86] 2020-11-12 (PCT/EP2020/081892)
[87] (WO2021/094445)
[30] EP (PCT/EP2019/081011) 2019-11-12

[21] **3,160,362**
[13] A1

[51] **Int.Cl. H04N 5/359 (2011.01) H04N 5/374 (2011.01) H04N 5/33 (2006.01)**

[25] FR
[54] **IMAGE CAPTURE USING RADIATION-SENSITIVE ELEMENTS HAVING A MEMORY EFFECT**
[54] **SAISIE D'IMAGES UTILISANT DES ELEMENTS SENSIBLES AU RAYONNEMENT PRESENTANT UNE EFFET DE MEMOIRE**
[72] KRAPEZ, JEAN-CLAUDE, FR
[71] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, FR
[85] 2022-05-05
[86] 2020-11-14 (PCT/EP2020/082167)
[87] (WO2021/104905)
[30] FR (FR1913415) 2019-11-28

[21] **3,160,364**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/506 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01) C07D 405/14 (2006.01)**

[25] EN
[54] **NOVEL COMPOUNDS FOR THE DIAGNOSIS, TREATMENT AND PREVENTION OF DISEASES ASSOCIATED WITH THE AGGREGATION OF ALPHA-SYNUCLEIN**
[54] **NOUVEAUX COMPOSES POUR LE DIAGNOSTIC, LE TRAITEMENT ET LA PREVENTION DE MALADIES ASSOCIEES A L'AGREGATION DE L'ALPHA-SYNUCLEINE**
[72] GIESE, ARMIN, DE
[72] SCHMIDT, FELIX, DE
[72] WECKBECKER, DANIEL, DE
[72] LEONOV, ANDREI, DE
[72] RYAZANOV, SERGEY, DE
[72] GRIESINGER, CHRISTIAN, DE
[72] PICHLER, BERND, DE
[72] HERFERT, KRISTINA, DE
[72] MAURER, ANDREAS, DE
[72] KUBLER, LAURA, DE
[72] BUSS, SABRINA, DE
[71] MODAG GMBH, DE
[71] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE
[85] 2022-05-05
[86] 2020-11-19 (PCT/EP2020/082778)
[87] (WO2021/099518)
[30] EP (19210073.3) 2019-11-19

[21] **3,160,426**
[13] A1

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

[25] EN
[54] **NEGATIVE PRESSURE WOUND THERAPY BARRIER**
[54] **BARRIERE DANS LE TRAITEMENT DES PLAIES PAR PRESSION NEGATIVE**
[72] SHULER, MICHAEL SIMMS, US
[71] J&M SHULER MEDICAL INC., US
[85] 2022-05-05
[86] 2021-01-22 (PCT/US2021/014608)
[87] (WO2021/150886)
[30] US (16/749,511) 2020-01-22

[21] **3,160,428**
[13] A1

[51] **Int.Cl. C07C 25/13 (2006.01) C07C 45/00 (2006.01) C07C 45/64 (2006.01)**

[25] EN
[54] **RECRYSTALLIZED HI-6 DIMETHYLSULFATE**
[54] **DIMETHYLSULFATE D'HI-6 RECRYSTALLISE**
[72] BLUMBERG, SHAWN T., US
[72] MIGUEL, PAUL W., US
[71] SOUTHWEST RESEARCH INSTITUTE, US
[85] 2022-05-05
[86] 2020-11-10 (PCT/US2020/070761)
[87] (WO2021/097475)
[30] US (62/933,814) 2019-11-11

[21] **3,160,432**
[13] A1

[51] **Int.Cl. G02F 1/16757 (2019.01) B01J 13/02 (2006.01) G02F 1/167 (2019.01) C08K 5/07 (2006.01) C08L 29/04 (2006.01) C08L 39/06 (2006.01)**

[25] EN
[54] **COLOR ELECTROPHORETIC LAYER INCLUDING MICROCAPSULES WITH NONIONIC POLYMERIC WALLS**
[54] **COUCHE ELECTROPHORETIQUE COLOREE COMPRENANT DES MICROCAPSULES AYANT DES PAROIS POLYMERES NON IONIQUES**
[72] TELFER, STEPHEN J., US
[72] CASADO, ROSA, US
[72] EGOROV, SERGEY, US
[72] CHANG, ERIN CRISWELL, US
[72] ANSETH, JAY WILLIAM, US
[72] LATTES, ANA L., US
[72] MCCULLOUGH, LYNNE A., US
[71] E INK CORPORATION, US
[85] 2022-05-05
[86] 2020-12-22 (PCT/US2020/066593)
[87] (WO2021/133794)
[30] US (62/952,534) 2019-12-23

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[21] **3,160,434**
[13] A1

[51] **Int.Cl. A61C 19/06 (2006.01)**
[25] EN
[54] **DOSING INDICATOR**
[54] **INDICATEUR DE DOSAGE**
[72] WANG, SAMANTHA CHEN-YEE, US
[71] THE PROCTOR & GAMBLE
COMPANY, US
[85] 2022-05-05
[86] 2020-11-23 (PCT/US2020/061717)
[87] (WO2021/108283)
[30] US (62/940,933) 2019-11-27

[21] **3,160,436**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) C07K
16/28 (2006.01)**
[25] EN
[54] **BISPECIFIC ANTIBODIES WITH
ALTERNATIVELY MATCHED
INTERCHAIN CYCSTEINES AND
USES THEREOF**
[54] **ANTICORPS BISPECIFIQUES
COMPRENANT DES CYCSTEINES
INTERCHAINES MISES EN
CORRESPONDANCE EN
ALTERNANCE ET LEURS
UTILISATIONS**
[72] LI, JACK CHONGYANG, US
[72] WANG, MINGHAN, US
[72] ZOU, HUI, US
[72] JIA, HAIQUN, US
[71] PHANES THERAPEUTICS, INC., US
[85] 2022-05-05
[86] 2020-12-03 (PCT/US2020/063066)
[87] (WO2021/126538)
[30] US (62/948,953) 2019-12-17
[30] US (62/952,747) 2019-12-23
[30] US (62/988,144) 2020-03-11
[30] US (63/007,996) 2020-04-10
[30] US (62/704,973) 2020-06-05
[30] US (62/706,511) 2020-08-21

[21] **3,160,455**
[13] A1

[51] **Int.Cl. G01J 3/00 (2006.01) A61N 5/06
(2006.01)**
[25] EN
[54] **PREDICTING AND MEASURING
MELANOPIC DOSE**
[54] **PREDICTION ET MESURE DE
DOSE MELANOPIQUE**
[72] ASHDOWN, IAN EDWARD, CA
[71] SUNTRACKER TECHNOLOGIES
LTD., CA
[85] 2022-03-25
[86] 2021-03-22 (PCT/CA2021/050372)
[87] (WO2022/006654)
[30] US (63/049,292) 2020-07-08
[30] US (63/105,149) 2020-10-23
[30] US (63/116,371) 2020-11-20

[21] **3,160,456**
[13] A1

[51] **Int.Cl. B07C 5/346 (2006.01) B07C
5/38 (2006.01) C22B 1/00 (2006.01)
C22B 21/00 (2006.01) G01N 23/222
(2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR
ANALYSING AND/OR SORTING
SCRAP METAL**
[54] **PROCEDE ET DISPOSITIF POUR
ANALYSER ET/OU TRIER DE LA
FERRAILLE**
[72] GILLNER, RONALD, DE
[72] BAUERSCHLAG, NILS ROBERT, DE
[71] HYDRO ALUMINIUM RECYCLING
DEUTSCHLAND GMBH, DE
[85] 2022-05-05
[86] 2020-11-20 (PCT/EP2020/082843)
[87] (WO2021/099549)
[30] DE (10 2019 131 551.4) 2019-11-21

[21] **3,160,457**
[13] A1

[51] **Int.Cl. G01K 7/00 (2006.01) G01N
27/00 (2006.01)**
[25] EN
[54] **WEARABLE SENSOR DEVICE
AND MONITORING SYSTEM**
[54] **DISPOSITIF DE CAPTEUR
PORTABLE ET SYSTEME DE
SURVEILLANCE**
[72] KUWABARA, KEI, JP
[72] TOKURA, AKIO, JP
[72] ISHIHARA, TAKAKO, JP
[72] WADA, TOSHIKI, JP
[72] HIGUCHI, YUICHI, JP
[72] HASHIMOTO, YUKI, JP
[72] TOGO, HIROYOSHI, JP
[71] NIPPON TELEGRAPH AND
TELEPHONE CORPORATION, JP
[85] 2022-05-04
[86] 2019-11-06 (PCT/JP2019/043411)
[87] (WO2021/090386)

[21] **3,160,459**
[13] A1

[51] **Int.Cl. C08B 37/04 (2006.01) B01D
11/02 (2006.01)**
[25] EN
[54] **METHOD OF PROCESSING
SEAWEED**
[54] **PROCEDE DE TRAITEMENT
D'ALGUES**
[72] GREEN, RICKY LEE, GB
[72] VANDENBURG, HAROLD JOHN, GB
[71] ALGINOR ASA, NO
[85] 2022-05-05
[86] 2020-11-06 (PCT/GB2020/052824)
[87] (WO2021/090023)
[30] GB (1916199.1) 2019-11-07

[21] **3,160,460**
[13] A1

[51] **Int.Cl. A61M 16/06 (2006.01)**
[25] EN
[54] **RESPIRATORY INTERFACE
ASSEMBLY**
[54] **ENSEMBLE INTERFACE
RESPIRATOIRE**
[72] COLLINS, JANINE ELIZABETH, NZ
[72] MURPHY, BLAIR RAYMUND
DADSON, NZ
[72] MCGLASHAN, LYDIA KATHLEEN,
NZ
[71] FISHER & PAYKEL HEALTHCARE
LIMITED, NZ
[85] 2022-05-04
[86] 2020-11-13 (PCT/NZ2020/050151)
[87] (WO2021/096371)
[30] US (62/936,155) 2019-11-15

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[21] **3,160,461**
[13] A1

[51] **Int.Cl. A01B 63/24 (2006.01) A01B 23/04 (2006.01) A01B 49/04 (2006.01) A01B 63/111 (2006.01) A01B 63/16 (2006.01)**

[25] EN

[54] **AUTOMATED TILLAGE DISK GANG ANGLE ADJUSTMENT**

[54] **REGLAGE AUTOMATISE D'ANGLE DE TRAIN A DISQUES DE TRAVAIL DU SOL**

[72] LEININGER, JAY, US

[72] KOCH, JARED, US

[71] AGCO CORPORATION, US

[85] 2022-05-05

[86] 2020-08-06 (PCT/IB2020/057439)

[87] (WO2021/094842)

[30] US (62/933,779) 2019-11-11

[21] **3,160,462**
[13] A1

[51] **Int.Cl. A61F 2/32 (2006.01) A61F 2/34 (2006.01) A61F 2/36 (2006.01)**

[25] EN

[54] **ENDOPROSTHESIS**

[54] **ENDOPROTHESE**

[72] ROGALA, PIOTR, PL

[72] ROGALA, JAN, PL

[72] ROGALA, STANISLAW, PL

[72] ZAWADZKI, PAWEL, PL

[71] INDYWIDUALNA SPECJALISTYCZNA PRAKTYKA LEKARSKA W MIEJSCU WEZWANIA PIOTR ROGALA, PL

[85] 2022-05-04

[86] 2020-10-26 (PCT/PL2020/000082)

[87] (WO2021/112700)

[30] PL (P.432042) 2019-12-02

[21] **3,160,464**
[13] A1

[51] **Int.Cl. C12N 5/078 (2010.01)**

[25] EN

[54] **METHODS OF GENERATING ENUCLEATED ERYTHROID CELLS USING TAURINE OR HYPOTAURINE**

[54] **PROCEDES DE GENERATION DE CELLULES ERYTHROIDES ENUCLEES A L'AIDE DE TAURINE OU D'HYPOTAURINE**

[72] LAW, BILLY, US

[72] GILBERT, ALAN BENJAMIN, US

[71] RUBIUS THERAPEUTICS, INC., US

[85] 2022-05-04

[86] 2020-11-04 (PCT/US2020/058930)

[87] (WO2021/092047)

[30] US (62/930,528) 2019-11-04

[21] **3,160,465**
[13] A1

[51] **Int.Cl. B65D 90/08 (2006.01) A01F 25/00 (2006.01) B65D 90/02 (2019.01) E04H 7/30 (2006.01)**

[25] EN

[54] **SILO WITH SIDEWALL PANELS HAVING OFFSET EDGES**

[54] **SILO AYANT DES PANNEAUX DE PAROI LATERALE A BORDS DECALES**

[72] HENGEL, DANIEL, CA

[71] THE GSI GROUP LLC, US

[85] 2022-05-05

[86] 2020-10-16 (PCT/IB2020/059749)

[87] (WO2021/105787)

[30] US (62/941,264) 2019-11-27

[21] **3,160,466**
[13] A1

[51] **Int.Cl. C07K 14/55 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) A61P 37/00 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **DUAL IL-2R AND IL-7R BINDING COMPOUNDS**

[54] **COMPOSES DE LIAISON A IL-2 R ET IL-7 R DOUBLE**

[72] DOWER, WILLIAM J., US

[72] NEEDELS, MICHAEL C., US

[72] BARRETT, RONALD W., US

[72] BAKKER, ALICE V., US

[72] CWIRLA, STEVEN E., US

[71] MEDIKINE, INC., US

[85] 2022-05-04

[86] 2020-11-04 (PCT/US2020/058969)

[87] (WO2021/092081)

[30] US (62/930,758) 2019-11-05

[30] US (62/969,432) 2020-02-03

[30] US (63/041,158) 2020-06-19

[30] US (63/071,946) 2020-08-28

[21] **3,160,467**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/50 (2006.01) B01D 53/52 (2006.01) B01D 53/56 (2006.01) B01D 53/78 (2006.01)**

[25] EN

[54] **TREATMENT OF ACID GASES USING MOLTEN ALKALI METAL BORATES AND ASSOCIATED METHODS OF SEPARATION, AND PROCESSES FOR REGENERATING SORBENTS AND ASSOCIATED SYSTEMS**

[54] **TRAITEMENT DE GAZ ACIDES A L'AIDE DE BORATES DE METAUX ALCALINS FONDUS ET PROCEDES DE SEPARATION ASSOCIES, AINSI QUE PROCEDES DE REGENERATION DE SORBANTS ET SYSTEMES ASSOCIES**

[72] HATTON, TREVOR ALAN, US

[72] HARADA, TAKUYA, JP

[72] HALLIDAY, CAMERON G., GB

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[85] 2022-05-04

[86] 2020-11-05 (PCT/US2020/059167)

[87] (WO2021/092215)

[30] US (62/932,410) 2019-11-07

[30] US (62/971,488) 2020-02-07

[30] US (62/979,628) 2020-02-21

[30] US (62/988,436) 2020-03-12

[21] **3,160,468**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 7/06 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **HLA RESTRICTED HORMAD1 T CELL RECEPTORS AND USES THEREOF**

[54] **RECEPTEURS DES LYMPHOCYTES T DE HORMAD1 RESTREINTS AUX HLA ET LEURS UTILISATIONS**

[72] YEE, CASSIAN, US

[72] PAN, KE, US

[72] WHITEHURST, ANGELIQUE, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2022-05-04

[86] 2020-11-05 (PCT/US2020/059178)

[87] (WO2021/092223)

[30] US (62/930,892) 2019-11-05

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[21] **3,160,469**
[13] A1

[51] **Int.Cl. A61L 29/04 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **FLUSHABLE CATHETER EXTENSIONS**
[54] **EXTENSIONS DE CATHETER RINCABLES**
[72] SILEIKA, TADAS S., US
[72] DEAN, NICOLE L., US
[72] MCNULTY, VIVIENNE, US
[71] HOLLISTER INCORPORATED, US
[85] 2022-05-05
[86] 2020-11-05 (PCT/US2020/059217)
[87] (WO2021/092253)
[30] US (62/931,596) 2019-11-06

[21] **3,160,471**
[13] A1

[51] **Int.Cl. H04N 19/132 (2014.01) H04N 19/174 (2014.01) H04N 19/184 (2014.01) H04N 19/44 (2014.01) H04N 19/503 (2014.01) H04N 19/593 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **IMAGE/VIDEO CODING METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE CODAGE D'IMAGE/VIDEO**
[72] PALURI, SEETHAL, KR
[72] HENDRY, HENDRY, KR
[72] KIM, SEUNGHWAN, KR
[72] ZHAO, JIE, KR
[71] LG ELECTRONICS INC., KR
[85] 2022-05-05
[86] 2020-11-05 (PCT/KR2020/015404)
[87] (WO2021/091256)
[30] US (62/931,137) 2019-11-05

[21] **3,160,472**
[13] A1

[51] **Int.Cl. G01D 11/24 (2006.01) F16B 31/02 (2006.01) G01B 21/32 (2006.01) G01K 1/14 (2021.01) G01K 17/00 (2006.01) G01L 5/24 (2006.01) G01P 1/02 (2006.01) H01R 4/00 (2006.01)**
[25] EN
[54] **FASTENER, READER, KIT, AND SIGNAL ACQUIRING METHOD**
[54] **ELEMENT DE FIXATION, LECTEUR, KIT ET PROCEDE D'ACQUISITION DE SIGNAL**
[72] LANZANI, FEDERICO, IT
[72] POGGIPOLINI, MICHELE, IT
[71] SENS-IN S.R.L., IT
[71] ISANIK S.R.L., IT
[85] 2022-05-05
[86] 2020-11-06 (PCT/IB2020/060476)
[87] (WO2021/090265)
[30] IT (102019000020656) 2019-11-08

[21] **3,160,473**
[13] A1

[51] **Int.Cl. B25H 3/04 (2006.01) H01F 7/02 (2006.01)**
[25] EN
[54] **INTERCHANGEABLE AND INTERCONNECTABLE TOOL ORGANIZING DEVICE**
[54] **DISPOSITIF D'ORGANISATION D'OUTIL INTERCHANGEABLE ET INTERCONNECTABLE**
[72] HURLEY, JONATHAN, US
[71] HURLEY, JONATHAN, US
[85] 2022-05-05
[86] 2020-12-02 (PCT/US2020/062792)
[87] (WO2021/126524)
[30] US (16/721,126) 2019-12-19

[21] **3,160,474**
[13] A1

[51] **Int.Cl. F25D 3/08 (2006.01) A45C 11/20 (2006.01) F25D 23/00 (2006.01)**
[25] EN
[54] **INSULATING DEVICE**
[54] **DISPOSITIF ISOLANT**
[72] ROGERS, KYLE EDWARD, US
[72] MUNIE, JEFFREY CHARLES, US
[72] LOUDENSLAGER, JOHN, US
[71] YETI COOLERS, LLC, US
[85] 2022-05-05
[86] 2020-11-10 (PCT/US2020/059783)
[87] (WO2021/096831)
[30] US (16/685,124) 2019-11-15

[21] **3,160,478**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) C07D 401/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **WDR5 INHIBITORS AND MODULATORS**
[54] **INHIBITEURS ET MODULATEURS DE WDR5**
[72] LEE, TAEKYU, US
[72] TEUSCHER, KEVIN B., US
[72] TIAN, JIANHUA, US
[72] MEYERS, KENNETH M., US
[72] CHOWDHURY, SOMENATH, US
[72] FESIK, STEPHEN W., US
[71] VANDERBILT UNIVERSITY, US
[85] 2022-05-05
[86] 2020-11-08 (PCT/US2020/059585)
[87] (WO2021/092525)
[30] US (62/933,065) 2019-11-08

[21] **3,160,479**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **LAG-3 ANTAGONIST THERAPY FOR MELANOMA**
[54] **THERAPIE PAR ANTAGONISTE DE LAG-3 CONTRE LE MELANOME**
[72] SRIVASTAVA, SHIVANI, US
[72] ABASKHAROUN, MENA, US
[71] BRISTOL-MYERS SQUIBB COMPANY, US
[85] 2022-05-05
[86] 2020-11-06 (PCT/US2020/059411)
[87] (WO2021/092380)
[30] US (62/932,916) 2019-11-08

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[21] **3,160,481**
[13] A1

[51] **Int.Cl. A61K 33/242 (2019.01) A61K 31/20 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 39/06 (2006.01)**

[25] EN

[54] **GOLD NANOCUSTER IN THE TREATMENT OF FRIEDREICH'S ATAXIA**

[54] **NANOAGREGAT D'OR DANS LE TRAITEMENT DE L'ATAXIE DE FRIEDREICH**

[72] MONGUZZI, ANGELO MARIA, IT
[72] VILLA, CHIARA, IT
[72] TORRENTE, YVAN, IT
[71] NOVYSYSTEM S.P.A., IT
[85] 2022-05-05
[86] 2020-11-10 (PCT/IB2020/060579)
[87] (WO2021/094921)
[30] IT (102019000020724) 2019-11-11

[21] **3,160,482**
[13] A1

[51] **Int.Cl. C07K 1/18 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **ENGINEERING CHARGE PAIR MUTATIONS FOR PAIRING OF HETERO-IGG MOLECULES**

[54] **MUTATIONS DE PAIRE DE CHARGES PAR GENIE GENETIQUE POUR L'APPARIEMENT DE MOLECULES HETERO-IGG**

[72] ESTES, BRAM, US
[72] GARCES, FERNANDO, US
[72] WANG, ZHULUN, US
[72] DARIS, MARK, US
[71] AMGEN INC., US
[85] 2022-05-05
[86] 2020-11-06 (PCT/US2020/059378)
[87] (WO2021/092355)
[30] US (62/933,205) 2019-11-08

[21] **3,160,487**
[13] A1

[51] **Int.Cl. C12N 5/074 (2010.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) C07K 14/705 (2006.01)**

[25] EN

[54] **GENERATION OF CHIMERIC ANTIGEN RECEPTOR MODIFIED T CELLS FROM STEM CELLS AND THERAPEUTIC USES**

[54] **GENERATION DE LYMPHOCYTES T MODIFIES PAR UN RECEPTEUR D'ANTIGENE CHIMERE A PARTIR DE CELLULES SOUCHES ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] FORMAN, STEPHEN J., US
[72] BROWN, CHRISTINE E., US
[72] WANG, ZHIQIANG, US
[71] CITY OF HOPE, US
[85] 2022-05-05
[86] 2020-11-05 (PCT/US2020/059216)
[87] (WO2021/092252)
[30] US (62/931,125) 2019-11-05

[21] **3,160,489**
[13] A1

[51] **Int.Cl. A61F 5/455 (2006.01)**

[25] EN

[54] **MENSTRUAL CUP**

[54] **COUPE MENSTRUELLE**

[72] MILLER, ANDREW ROSS, US
[72] ADAME, JANE HARTMAN, US
[72] SEEL, BRITTNEY, US
[72] WANG, LAUREN SCHULTE, US
[71] THE FLEX COMPANY, US
[85] 2022-05-05
[86] 2020-11-05 (PCT/US2020/059204)
[87] (WO2021/092243)
[30] US (62/930,804) 2019-11-05

[21] **3,160,490**
[13] A1

[51] **Int.Cl. B01D 17/04 (2006.01) C10G 33/02 (2006.01) H02M 3/315 (2006.01)**

[25] EN

[54] **POWER SUPPLY UNIT, SYSTEM AND METHOD FOR COALESCENCE OF MULTI-PHASE LIQUID MIXTURES**

[54] **UNITE D'ALIMENTATION ELECTRIQUE, SYSTEME ET PROCEDE DE COALESCENCE DE MELANGES LIQUIDES MULTIPHASES**

[72] MANDEWALKAR, PAVAN KUMAR B., US
[72] SAMS, GARY W., US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2022-05-05
[86] 2020-11-04 (PCT/US2020/058872)
[87] (WO2021/092009)
[30] US (16/674,890) 2019-11-05

[21] **3,160,491**
[13] A1

[51] **Int.Cl. B65G 9/00 (2006.01) A61B 90/50 (2016.01) A61G 12/00 (2006.01) B66F 11/00 (2006.01) F16M 11/04 (2006.01)**

[25] EN

[54] **IMPROVED ARM LINKAGE FOR DEVICE BEARING SPRING ARMS**

[54] **LIAISON DE BRAS AMELIOREE POUR DISPOSITIF PORTANT DES BRAS A RESSORT**

[72] BORG, VINCENT, CA
[71] OASYS HEALTHCARE CORPORATION, CA
[85] 2022-05-05
[86] 2020-11-24 (PCT/IB2020/061057)
[87] (WO2021/100028)
[30] US (62/938,861) 2019-11-21

Demandes PCT entrant en phase nationale

[21] **3,160,492**
[13] A1

[51] **Int.Cl. B01D 17/06 (2006.01) B01D 17/02 (2006.01)**
[25] EN
[54] **SELF-TUNING OF POWER UNITS FOR ELECTRICAL SEPARATORS**
[54] **AUTO-REGLAGE D'UNITES D'ENERGIE POUR DES SEPARATEURS ELECTRIQUES**
[72] MANDEWALKAR, PAVAN KUMAR B., US
[72] LOPEZ, MIGUEL ANGEL, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2022-05-05
[86] 2020-11-04 (PCT/US2020/058851)
[87] (WO2021/091990)
[30] US (62/930,961) 2019-11-05

[21] **3,160,495**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G01K 1/024 (2021.01) G01K 13/12 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ADVANCED GRAIN STORAGE AND MANAGEMENT USING PREDICTIVE ANALYTICS AND ANOMALY DETECTION**
[54] **SYSTEMES ET PROCEDES DE STOCKAGE ET DE GESTION AVANCES DE GRAIN A L'AIDE D'UNE ANALYSE PREDICTIVE ET D'UNE DETECTION D'ANOMALIE**
[72] ZAFAR, NAEEM, US
[72] GARNER, NICHOLAS WILLIAM, US
[72] SANGHI, ACHINT JAGJIT, US
[72] KUMAR, PRAGYA, US
[72] AHMED, ALI, US
[72] ADLER, GLENN, US
[71] TELESENSE, INC., US
[85] 2022-05-05
[86] 2020-11-04 (PCT/US2020/058848)
[87] (WO2021/091988)
[30] US (62/932,103) 2019-11-07

[21] **3,160,496**
[13] A1

[51] **Int.Cl. H04W 4/38 (2018.01) H04L 12/66 (2006.01) G16Y 30/10 (2020.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRANSMITTING DATA IN IOT SYSTEM, AND GATEWAY DEVICE AND STORAGE MEDIUM THEREOF**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION DE DONNEES DANS UN SYSTEME IOT, ET DISPOSITIF DE PASSERELLE ET SUPPORT DE STOCKAGE ASSOCIE**
[72] QIAN, JIALIN, CN
[72] CUI, CHANGDONG, CN
[72] ZHANG, HONGZHEN, CN
[72] ZHANG, YANG, CN
[71] ENVISION DIGITAL INTERNATIONAL PTE. LTD., SG
[71] SHANGHAI ENVISION DIGITAL CO., LTD., CN
[85] 2022-05-05
[86] 2020-11-04 (PCT/SG2020/050637)
[87] (WO2021/091492)
[30] CN (201911076109.2) 2019-11-06

[21] **3,160,500**
[13] A1

[51] **Int.Cl. C08F 2/44 (2006.01) C08F 2/14 (2006.01) C08L 23/08 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **PROCESSES FOR PRODUCING POLYETHYLENE CONTAINING RECYCLED NON-POLAR POLYMERIC MATERIAL**
[54] **PROCEDES DE PRODUCTION DE POLYETHYLENE CONTENANT UN MATERIAU POLYMERE NON POLAIRE RECYCLE**
[72] PIRES FORTES FERREIRA, MARCIA, CA
[72] EBRAHIMI, MARZIEH, CA
[72] ANSEEUW, RENEE, CA
[72] LEE, GRAHAM, CA
[72] KOONER, GURPREET, CA
[72] SIBTAIN, FAZLE, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-05-05
[86] 2020-12-11 (PCT/IB2020/061840)
[87] (WO2021/124054)
[30] US (62/951,356) 2019-12-20

[21] **3,160,506**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A01N 25/00 (2006.01) C07K 16/40 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **INSECT CONTROL NANOBODIES AND USES THEREOF**
[54] **NANOCORPS DE LUTTE CONTRE LES INSECTES ET LEURS UTILISATIONS**
[72] OREN-BENAROYA, RONY, IL
[72] AYALI, AMIR, IL
[72] MONSERRATE, JESSICA, US
[72] VAN RIE, JEROEN, BE
[71] IBI-AG INNOVATIVE BIO INSECTICIDES LTD., IL
[85] 2022-05-05
[86] 2020-11-11 (PCT/IL2020/051170)
[87] (WO2021/095031)
[30] US (62/933,533) 2019-11-11

[21] **3,160,510**
[13] A1

[51] **Int.Cl. G01K 7/00 (2006.01) G01N 27/00 (2006.01)**
[25] EN
[54] **WEARABLE ENVIRONMENT SENSOR DEVICE AND MONITORING SYSTEM**
[54] **DISPOSITIF CAPTEUR D'ENVIRONNEMENT A PORTER SUR SOI ET SYSTEME DE SURVEILLANCE**
[72] TOKURA, AKIO, JP
[72] KUWABARA, KEI, JP
[72] MATSUOKA, HIROTO, JP
[72] ISHIHARA, TAKAKO, JP
[72] WADA, TOSHIKI, JP
[72] HIGUCHI, YUICHI, JP
[72] HASHIMOTO, YUKI, JP
[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2022-05-05
[86] 2019-11-07 (PCT/JP2019/043644)
[87] (WO2021/090436)

PCT Applications Entering the National Phase

[21] **3,160,512**
[13] A1

[51] **Int.Cl. H01P 1/04 (2006.01) H01R 11/01 (2006.01) H05K 1/18 (2006.01)**

[25] EN

[54] **HIGH-FREQUENCY LINE STRUCTURE, SUBASSEMBLY, LINE CARD, AND MANUFACTURING METHOD FOR HIGH-FREQUENCY LINE STRUCTURE**

[54] **STRUCTURE DE LIGNE A HAUTE FREQUENCE, SOUS-ENSEMBLE, CARTE DE LIGNE, ET PROCEDE DE FABRICATION DE STRUCTURE DE LIGNE A HAUTE FREQUENCE**

[72] TANOBE, HIROMASA, JP

[72] OZAKI, JOSUKE, JP

[71] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP

[85] 2022-05-05

[86] 2019-11-13 (PCT/JP2019/044530)

[87] (WO2021/095163)

[21] **3,160,514**
[13] A1

[51] **Int.Cl. A61L 2/18 (2006.01) B05B 17/06 (2006.01)**

[25] EN

[54] **DECONTAMINATION SYSTEM**

[54] **SYSTEME DE DECONTAMINATION**

[72] KAWASAKI, KOJI, JP

[72] SOU, GUN, JP

[72] KITANO, TSUKASA, JP

[72] GUO, ZHIQIANG, JP

[72] FUTAMURA, HARUKA, JP

[72] YAZAKI, YUKIHIRO, JP

[72] KAKUDA, DAISUKE, JP

[72] MASUDOME, JUN, JP

[71] AIREX CO., LTD., JP

[85] 2022-05-05

[86] 2020-10-21 (PCT/JP2020/039556)

[87] (WO2021/095465)

[30] JP (2019-206606) 2019-11-15

[30] JP (2020-078816) 2020-04-28

[21] **3,160,516**
[13] A1

[51] **Int.Cl. H04W 24/02 (2009.01) H04W 76/10 (2018.01)**

[25] EN

[54] **REFERENCE SIGNALING DESIGN AND CONFIGURATION**

[54] **CONCEPTION ET CONFIGURATION DE SIGNALISATION DE REFERENCE**

[72] AI, JIANXUN, CN

[72] LIU, JING, CN

[72] HUANG, HE, CN

[71] ZTE CORPORATION, CN

[85] 2022-05-06

[86] 2019-11-07 (PCT/CN2019/116242)

[87] (WO2021/087859)

[21] **3,160,517**
[13] A1

[51] **Int.Cl. A23L 5/20 (2016.01) A23L 33/105 (2016.01)**

[25] EN

[54] **COMPOSITION CONTAINING POLYPHENOL**

[54] **COMPOSITION CONTENANT UN POLYPHENOL**

[72] HAN, JIN HEE, KR

[72] PARK, SUNG YONG, KR

[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2022-05-05

[86] 2020-11-06 (PCT/KR2020/015546)

[87] (WO2021/091322)

[30] KR (10-2019-0142992) 2019-11-08

[30] KR (10-2020-0123836) 2020-09-24

[30] KR (10-2020-0123837) 2020-09-24

[21] **3,160,518**
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61P 3/00 (2006.01) A61P 3/10 (2006.01) C07D 235/14 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **GLP-1 RECEPTOR AGONIST AND USE THEREOF**

[54] **AGONISTE DU RECEPTEUR GLP-1 ET SON UTILISATION**

[72] YOON, HONG CHUL, KR

[72] AN, KYUNG MI, KR

[72] LEE, MYONG JAE, KR

[72] LEE, JIN HEE, KR

[72] KIM, JEONG-GEUN, KR

[72] IM, A-RANG, KR

[72] JEON, WOO JIN, KR

[72] JEONG, JIN AH, KR

[72] HEO, JAEHO, KR

[72] HONG, CHANGHEE, KR

[72] KIM, KYEOJIN, KR

[72] PARK, JUNG-EUN, KR

[72] SOHN, TE-IK, KR

[72] OH, CHANGMOK, KR

[72] HONG, DA HAE, KR

[72] KWON, SUNG WOOK, KR

[72] KIM, JUNG HO, KR

[72] SHIN, JAE EUI, KR

[72] YOO, YEONGRAN, KR

[72] CHANG, MIN WHAN, KR

[72] JANG, EUN HYE, KR

[72] JE, IN-GYU, KR

[72] CHOI, JI HYE, KR

[72] KIM, GUNHEE, KR

[72] JUN, YEARIN, KR

[71] ILDONG PHARMACEUTICAL CO., LTD., KR

[85] 2022-05-05

[86] 2020-11-13 (PCT/KR2020/016019)

[87] (WO2021/096304)

Demandes PCT entrant en phase nationale

[21] **3,160,519**
[13] A1

[51] **Int.Cl. C09K 8/68 (2006.01) C09K 8/80 (2006.01) E21B 43/26 (2006.01) E21B 43/267 (2006.01)**

[25] EN

[54] **STIMULATION FLUIDS CONTAINING METAL SILICATES**

[54] **FLUIDES DE STIMULATION CONTENANT DES SILICATES METALLIQUES**

[72] KHAMATNUROVA, TATYANA, US

[72] NGUYEN, PHILIP, US

[72] MONTALVO, JANETTE CORTEZ, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-05-06

[86] 2020-03-04 (PCT/US2020/021004)

[87] (WO2021/177955)

[30] US (16/806,680) 2020-03-02

[21] **3,160,520**
[13] A1

[51] **Int.Cl. H04W 52/02 (2009.01)**

[25] EN

[54] **POWER SAVING TECHNIQUES**

[54] **TECHNIQUES D'ECONOMIE D'ENERGIE**

[72] MA, XIAOYING, CN

[72] XU, JUN, CN

[72] CHEN, MENGZHU, CN

[72] WU, HAO, CN

[72] GUO, QIUJIN, CN

[72] MA, XUAN, CN

[72] PENG, FOCAL, CN

[71] ZTE CORPORATION, CN

[85] 2022-05-06

[86] 2019-11-08 (PCT/CN2019/116583)

[87] (WO2021/087950)

[21] **3,160,524**
[13] A1

[51] **Int.Cl. A61M 1/36 (2006.01)**

[25] EN

[54] **TECHNIQUES FOR IMAGE-BASED EXAMINATION OF DIALYSIS ACCESS SITES**

[54] **TECHNIQUES D'EXAMEN FONDE SUR L'IMAGE DE SITES D'ACCES POUR DIALYSE**

[72] ZHANG, HANJIE, US

[72] KOTANKO, PETER, US

[72] CHARETTE, LESLIE A., US

[72] MUCHIUTTI, CARLOS, US

[72] SOR, MURAT, US

[72] KOH, ELSIE, US

[72] MADDUX, DUGAN W., US

[72] USVYAT, LEN, US

[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US

[85] 2022-05-06

[86] 2020-10-15 (PCT/US2020/055674)

[87] (WO2021/091668)

[30] US (16/678,234) 2019-11-08

[21] **3,160,526**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/06 (2006.01) C07K 16/28 (2006.01) C12N 15/02 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMBINATION AND USE THEREOF**

[54] **COMBINAISON PHARMACEUTIQUE ET UTILISATION DE CELLE-CI**

[72] ZHANG, JUAN, CN

[71] CSTONE PHARMACEUTICALS (SUZHOU) CO., LTD., CN

[71] CSTONE PHARMACEUTICALS (SHANGHAI) CO., LTD., CN

[71] CSTONE PHARMACEUTICALS, KY

[85] 2022-05-06

[86] 2020-11-11 (PCT/CN2020/128083)

[87] (WO2021/093764)

[30] CN (PCT/CN2019/117155) 2019-11-11

[21] **3,160,527**
[13] A1

[51] **Int.Cl. H02N 2/18 (2006.01) H01L 41/113 (2006.01)**

[25] EN

[54] **CANTILEVER FOR A PIEZOELECTRIC ENERGY HARVESTING SYSTEM**

[54] **PORTE-A-FAUX POUR SYSTEME DE COLLECTE D'ENERGIE PIEZOELECTRIQUE**

[72] MARKEVICIUS, VYTAUTAS, LT

[72] PONAMARIOV, DONAT, LT

[71] UAB NANOENERGIJA, LT

[85] 2022-05-06

[86] 2020-07-30 (PCT/EP2020/071552)

[87] (WO2022/022831)

[21] **3,160,529**
[13] A1

[51] **Int.Cl. F16C 33/12 (2006.01) F16C 17/02 (2006.01)**

[25] EN

[54] **ELECTRICALLY CONDUCTIVE BEARINGS**

[54] **PALIERES ELECTROCONDUCTEURS**

[72] HAINES, PAUL, GB

[72] FLUEGGE, JAN, DE

[72] TOBIAS, DANIEL, CZ

[72] SCHWIEGEL, MARTIN, DE

[72] JAEGER, HANS-JUERGEN, DE

[72] FOERSTER, FLORIAN, DE

[72] ULBAY, EMRE, TR

[72] GIESEN, SEBASTIAN, DE

[72] USTA, MEHMET, TR

[72] ZLEBEK, JIRI, CZ

[72] FREESE, JUERGEN, DE

[72] VAYA VALCARCE, JUAN, ES

[71] SAINT-GOBAIN PERFORMANCE PLASTICS RENCOL LIMITED, GB

[85] 2022-05-06

[86] 2020-11-06 (PCT/EP2020/081326)

[87] (WO2021/089804)

[30] US (62/932,415) 2019-11-07

PCT Applications Entering the National Phase

[21] **3,160,530**

[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) G06T
7/00 (2017.01)**

[25] EN

[54] **AUTONOMOUS MACHINE
NAVIGATION IN VARIOUS
LIGHTING ENVIRONMENTS**

[54] **NAVIGATION DE MACHINE
AUTONOME DANS DIVERS
ENVIRONNEMENTS
D'ECLAIRAGE**

[72] FRICK, ALEXANDER STEVEN, US

[72] JANEY, GREGORY S., US

[71] THE TORO COMPANY, US

[85] 2022-05-06

[86] 2020-11-02 (PCT/US2020/058501)

[87] (WO2021/108083)

[30] US (62/941,434) 2019-11-27

[21] **3,160,531**

[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q
50/02 (2012.01) G06Q 50/26 (2012.01)
G06F 16/29 (2019.01) A01B 69/00
(2006.01) G09B 29/10 (2006.01)**

[25] EN

[54] **METHOD FOR AUTOMATED
BUFFER ZONE MANAGEMENT**

[54] **PROCEDE DE GESTION
AUTOMATISEE DE ZONES
TAMPONS**

[72] WERNER, NICOLAS, DE

[72] WAHABZADA, MIRWAES, DE

[72] JANSSEN, OLE, DE

[71] BASF AGRO TRADEMARKS GMBH,
DE

[85] 2022-05-06

[86] 2020-11-06 (PCT/EP2020/081359)

[87] (WO2021/089825)

[30] EP (19208118.0) 2019-11-08

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Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] 3,114,347 [13] A1	[21] 3,157,651 [13] A1	[21] 3,157,679 [13] A1
<p>[51] Int.Cl. A61K 31/198 (2006.01) A61K 31/19 (2006.01) A61K 31/4166 (2006.01) A61K 31/4709 (2006.01) A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61K 31/55 (2006.01) A61P 17/00 (2006.01) A61P 29/00 (2006.01)</p> <p>[25] EN</p> <p>[54] USE OF AGONISTS OF FORMYL PEPTIDE RECEPTOR 2 FOR TREATING DERMATOLOGICAL DISEASES</p> <p>[54] UNKNOWN, XX</p> <p>[72] ALLERGAN, INC., US</p> <p>[22] 2014-03-04</p> <p>[41] 2014-09-12</p> <p>[62] 2,899,804</p> <p>[30] US (61/773,778) 2013-03-06</p>	<p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR MANAGING DISCRETION TRADING ORDERS</p> <p>[54] SYSTEME ET METHODE PERMETTANT DE GERER DES ORDRES COMMERCIAUX DISCRETIONNAIRES</p> <p>[72] BARTKO, PETER, US</p> <p>[72] CAPUANO, JOHN ROBERT, US</p> <p>[72] FIELD, MICHAEL, GB</p> <p>[72] GREGSON, FREDERICK T., US</p> <p>[72] WESTON, BRIAN ALEXANDER, US</p> <p>[71] BCG PARTNERS, L.P., US</p> <p>[22] 2008-01-04</p> <p>[41] 2008-07-16</p> <p>[62] 2,618,347</p> <p>[30] US (11/623,731) 2007-01-16</p>	<p>[25] EN</p> <p>[54] VEHICLE SPEED LIMITER VIA GAUGE INTERFACE</p> <p>[54] LIMITEUR DE VITESSE D'UN VEHICULE PAR L'INTERMEDIAIRE D'UNE INTERFACE D'INDICATEUR</p> <p>[72] JOHNSON, DANIEL, US</p> <p>[72] JANISCH, DARREL, US</p> <p>[71] ARCTIC CAT INC., US</p> <p>[22] 2014-03-07</p> <p>[41] 2014-10-02</p> <p>[62] 2,905,295</p> <p>[30] US (13/829,039) 2013-03-14</p>
<p style="text-align: center;">[21] 3,144,396 [13] A1</p> <p>[51] Int.Cl. F24F 7/007 (2006.01) F24F 1/028 (2019.01) F24F 1/0328 (2019.01) F24F 7/003 (2021.01) A47G 1/00 (2006.01) F24F 1/04 (2011.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR VENTILATION</p> <p>[54] SALSALI, HAMIDREZA, CA</p> <p>[72] 2773065 ONTARIO INCORPORATED, CA</p> <p>[22] 2021-12-30</p> <p>[41] 2022-02-27</p>	<p style="text-align: center;">[21] 3,157,655 [13] A1</p> <p>[25] EN</p> <p>[54] METHOD FOR SCHEDULING DISTRIBUTED VIRTUAL RESOURCE BLOCKS</p> <p>[54] PROCEDE DE PROGRAMMATION DE BLOCS DE RESSOURCES VIRTUELLES DISTRIBUES</p> <p>[72] SEO, DONG YOUN, KR</p> <p>[72] KIM, EUN SUN, KR</p> <p>[72] KIM, BONG HOE, KR</p> <p>[72] AHN, JOON KUI, KR</p> <p>[71] OPTIS CELLULAR TECHNOLOGY, LLC, US</p> <p>[22] 2009-01-06</p> <p>[41] 2009-07-16</p> <p>[62] 2,999,622</p> <p>[30] US (61/019,589) 2008-01-07</p> <p>[30] US (61/024,886) 2008-01-30</p> <p>[30] US (61/026,113) 2008-02-04</p> <p>[30] US (61/028,186) 2008-02-12</p> <p>[30] US (61/028,511) 2008-02-13</p> <p>[30] US (61/033,358) 2008-03-03</p> <p>[30] US (61/037,302) 2008-03-17</p> <p>[30] US (61/038,778) 2008-03-24</p> <p>[30] KR (10-2008-0131113) 2008-12-22</p>	<p style="text-align: center;">[21] 3,157,754 [13] A1</p> <p>[51] Int.Cl. E21B 43/24 (2006.01) E21B 43/17 (2006.01) E21B 43/22 (2006.01)</p> <p>[25] EN</p> <p>[54] METHODS FOR ESTABLISHING FLUID COMMUNICATION BETWEEN A SAGD WELL PAIR</p> <p>[54] ENGELMAN, RUSS, CA</p> <p>[72] COULTER, CAL, CA</p> <p>[72] ACOSTA-RAMIREZ, HUGO, CA</p> <p>[72] GUERRERO, ADRIANA, CA</p> <p>[71] SUNCOR ENERGY INC., CA</p> <p>[22] 2014-03-21</p> <p>[41] 2015-09-10</p> <p>[62] 3,088,468</p> <p>[30] US (61/950,457) 2014-03-10</p> <p>[30] US (61/968,247) 2014-03-20</p> <p>[30] CA (2,846,924) 2014-03-20</p>

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[21] **3,157,817**
[13] A1

[51] **Int.Cl. B65G 15/60 (2006.01) B65G 15/08 (2006.01) B65G 41/00 (2006.01)**

[25] EN

[54] **TRANSPORT UNIT, MATERIAL TRANSFER STRUCTURE, MATERIAL TRANSFER UNIT, MOBILE HAULAGE ARRANGEMENT METHOD**

[54] **UNITE DE TRANSPORT, STRUCTURE DE TRANSFERT DE MATERIAU, UNITE DE TRANSFERT DE MATERIAU, PROCEDE D'AGENCEMENT DE ROULAGE MOBILE**

[72] DAMPFHOFER, STEFAN, SE

[72] RIEGER, HUBERT, SE

[71] SANDVIK INTELLECTUAL PROPERTY AB, SE

[22] 2015-02-16

[41] 2016-08-25

[62] 2,971,627

[21] **3,157,837**
[13] A1

[25] EN

[54] **DOCUMENT IMAGING SYSTEM AND METHOD FOR IMAGING DOCUMENTS**

[54]

[72] SULLIVAN, MICHAEL, US

[72] ALLEN, JOHN, US

[72] HELMLINGER, DAVID, US

[72] DEWITT, ROBERT, US

[72] YORK, MICHAEL, US

[72] ESCHER, ROBERT, US

[72] O'MARA, KERRY D., US

[72] MILLER, GARY, US

[71] OPEX CORPORATION, US

[22] 2015-05-04

[41] 2015-11-05

[62] 2,947,204

[30] US (61/988,148) 2014-05-02

[30] US (61/988,880) 2014-05-05

[21] **3,157,891**
[13] A1

[25] EN

[54] **PICKING STATION WITH AUTOMATED WAREHOUSE**

[54] **POSTE DE PREPARATION DE COMMANDES AVEC ENTREPOT AUTOMATISE**

[72] STEVENS, CRISTON S., US

[72] SCHUBILSKA, MARTIN E., US

[71] DEMATIC CORP., US

[22] 2015-07-13

[41] 2016-01-14

[62] 2,954,073

[30] US (62/023,421) 2014-07-11

[21] **3,157,895**
[13] A1

[51] **Int.Cl. F25B 15/00 (2006.01) C02F 1/04 (2006.01) F25B 30/04 (2006.01) F25B 35/04 (2006.01) F25B 37/00 (2006.01)**

[25] EN

[54] **ADSORPTION-BASED HEAT PUMP**

[54] **POMPE A CHALEUR A BASE D'ADSORPTION**

[72] HOU, JINGYUAN, CA

[72] KRISHNAMURTHY, VIGNESH, CA

[72] LASHKARI, BAHMAN, CA

[72] MONTAZERI, HANIF, CA

[72] SINGH, ARSHAN, CA

[71] ENERSON INC., CA

[22] 2019-03-07

[41] 2019-09-12

[62] 3,090,452

[30] US (62/639,843) 2018-03-07

[21] **3,158,038**
[13] A1

[51] **Int.Cl. A01N 35/02 (2006.01) A01N 25/00 (2006.01) A01N 25/30 (2006.01) A01N 37/44 (2006.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01)**

[25] EN

[54] **PHOTODYNAMIC INHIBITION OF MICROBIAL PATHOGENS IN PLANTS**

[54]

[72] FEFER, MICHAEL, CA

[72] PLAETZER, KRISTJAN, AT

[72] LIU, JUN, CA

[72] NASH, BRADY, CA

[72] NG, KENNETH KA-SENG, CA

[72] TERAZONO, YUICHI, CA

[72] GLUECK, MICHAEL JOHANNES, DE

[71] SUNCOR ENERGY INC., CA

[22] 2018-08-16

[41] 2019-02-21

[62] 3,073,102

[30] US (62/546,221) 2017-08-16

[21] **3,158,049**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR MONITORING USER ACTIVITIES**

[54]

[72] NIAZI, RAZIEH, CA

[71] BANK OF MONTREAL, CA

[22] 2020-08-12

[41] 2021-02-15

[62] 3,089,849

[30] US (62/887,365) 2019-08-15

[21] **3,158,056**
[13] A1

[25] EN

[54] **SYSTEM FOR CONNECTING IMPLEMENT TO MOBILE MACHINERY**

[54]

[72] MOLLICK, PETER J., US

[71] MOLLICK, PETER J., US

[22] 2018-09-27

[41] 2020-03-27

[62] 3,018,862

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,158,081**
[13] A1

[25] EN
[54] **INTERLEAVING AND MAPPING METHOD AND DEINTERLEAVING AND DEMAPPING METHOD FOR LDPC CODEWORD**
[54] **PROCEDE D'ENTRELACEMENT ET DE MAPPAGE ET PROCEDE DE DESENTRELACEMENT ET DE DEMAPPAGE POUR MOT DE CODE LDPC**
[72] ZHANG, WENJUN, CN
[72] SHI, YIJUN, CN
[72] HE, DAZHI, CN
[72] GUAN, YUNFENG, US
[72] XU, YIN, CN
[72] GUO, XUFENG, US
[71] SHANGHAI NATIONAL ENGINEERING RESEARCH CENTER OF DIGITAL TELEVISION CO.,LTD, CN
[22] 2015-02-16
[41] 2015-08-27
[62] 2,940,197
[30] CN (201410058280.1) 2014-02-20
[30] CN (201410219204.4) 2014-05-22
[30] CN (201410219229.4) 2014-05-22

[21] **3,158,086**
[13] A1

[25] EN
[54] **INTERLEAVING AND MAPPING METHOD AND DEINTERLEAVING AND DEMAPPING METHOD FOR LDPC CODEWORD**
[54] **PROCEDE D'ENTRELACEMENT ET DE MAPPAGE ET PROCEDE DE DESENTRELACEMENT ET DE DEMAPPAGE POUR MOT DE CODE LDPC**
[72] ZHANG, WENJUN, CN
[72] SHI, YIJUN, US
[72] HE, DAZHI, CN
[72] GUAN, YUNFENG, CN
[72] XU, YIN, CN
[72] GUO, XUFENG, CN
[71] SHANGHAI NATIONAL ENGINEERING RESEARCH CENTER OF DIGITAL TELEVISION CO.,LTD, CN
[22] 2015-02-16
[41] 2015-08-27
[62] 2,940,197
[30] CN (201410058280.1) 2014-02-20
[30] CN (201410219204.4) 2014-05-22
[30] CN (201410219229.4) 2014-05-22

[21] **3,158,087**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR MOBILE DEVICE ANALYSIS OF NUCLEIC ACIDS AND PROTEINS**
[54] **SYSTEMES ET PROCEDES POUR UNE ANALYSE PAR DISPOSITIF MOBILE D'ACIDES NUCLEIQUES ET DE PROTEINES**
[72] GOEL, ANITA, US
[71] NANOBIOASYM, INC., US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,906,728
[30] US (61/790,354) 2013-03-15
[30] US (61/875,661) 2013-09-09
[30] US (61/951,084) 2014-03-11

[21] **3,158,157**
[13] A1

[25] EN
[54] **USE OF TASIMELTEON IN THE TREATMENT OF CIRCADIAN RHYTHM DISORDERS**
[54]
[72] DRESSMAN, MARLENE MICHELLE, US
[72] FENNEY, JOHN JOSEPH, US
[72] LICAMELE, LOUIS WILLIAM, US
[72] POLYMERPOULOS, MIHAEL H., US
[71] VANDA PHARMACEUTICALS INC., US
[22] 2013-12-18
[41] 2014-06-26
[62] 2,893,542
[30] US (61/738,987) 2012-12-18
[30] US (61/738,985) 2012-12-18
[30] US (61/755,896) 2013-01-23
[30] US (PCT/US2013/023315) 2013-01-25
[30] US (13/751,011) 2013-01-25
[30] US (61/903,354) 2013-11-12

[21] **3,158,230**
[13] A1

[25] EN
[54] **TRACEABLE AND THEFT DETERRENT RECLAIMABLE PRODUCT**
[54]
[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
[71] SOUTHWIRE COMPANY, LLC, US
[22] 2008-11-12
[41] 2009-05-22
[62] 3,097,676
[30] US (60/987,566) 2007-11-13

[21] **3,158,247**
[13] A1

[25] EN
[54] **PORTABLE COMPUTER WITH MULTIPLE DISPLAY CONFIGURATIONS**
[54]
[72] BEHAR, YVES, US
[72] MORENSTEIN, JOSHUA, US
[72] HIBMACRONAN, CHRISTOPHER, US
[72] EDAHIRO, NAOYA, US
[72] DAY, MATTHEW DAVID, US
[71] LITL LLC, US
[22] 2009-03-27
[41] 2009-10-08
[62] 3,033,765
[30] US (61/041,365) 2008-04-01
[30] US (12/170,951) 2008-07-10
[30] US (12/170,939) 2008-07-10

[21] **3,158,249**
[13] A1

[51] **Int.Cl. B66F 9/12 (2006.01) B66F 9/065 (2006.01)**
[25] EN
[54] **PALLET LIFT RAILS**
[54] **RAILS DE LEVAGE DE PALETTES**
[72] APPS, WILLIAM P., US
[72] KING, PHILIP A., US
[71] REHRIG PACIFIC COMPANY, US
[22] 2015-02-10
[41] 2015-08-10
[62] 2,881,494
[30] US (61/938,018) 2014-02-10

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[21] **3,158,258**
[13] A1

[51] **Int.Cl. B66F 9/12 (2006.01)**
[25] EN
[54] **PALLET LIFT RAILS**
[54]
[72] APPS, WILLIAM P., US
[72] KING, PHILIP A., US
[71] REHRIG PACIFIC COMPANY, US
[22] 2015-02-10
[41] 2015-08-10
[62] 2,881,494
[30] US (61/938,018) 2014-02-10

[21] **3,158,386**
[13] A1

[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/46 (2020.01) A24F 40/465 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **METHOD OF GENERATING AEROSOL**
[54]
[72] BALLESTEROS GOMEZ, PABLO JAVIER, GB
[72] PHILLIPS, JEREMY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[22] 2017-07-25
[41] 2018-02-01
[62] 3,031,703
[30] GB (1612945.4) 2016-07-26

[21] **3,158,395**
[13] A1

[51] **Int.Cl. A63B 53/04 (2015.01)**
[25] EN
[54] **GOLF CLUB HEADS WITH OPTIMIZED CHARACTERISTICS AND RELATED METHODS**
[54] **TETES DE BATON DE GOLF A CARACTERISTIQUES OPTIMISEES ET METHODES ASSOCIEES**
[72] SCHWEIGERT, BRADLEY, D., US
[72] STOKKE, RYAN, M., US
[71] KARSTEN MANUFACTURING CORPORATION, US
[22] 2014-03-14
[41] 2014-09-25
[62] 3,074,956
[30] US (13/804,859) 2013-03-14
[30] US (13/804,917) 2013-03-14
[30] US (13/826,111) 2013-03-14

[21] **3,158,448**
[13] A1

[25] EN
[54] **NEUROACTIVE STEROIDS, COMPOSITIONS, AND USES THEREOF**
[54] **STEROIDES NEUROACTIFS, COMPOSITIONS, ET LEURS UTILISATIONS**
[72] KANES, STEPHEN, JAY, US
[72] COLQUHOUN, HELEN, US
[71] SAGE THERAPEUTICS, INC., US
[22] 2017-03-08
[41] 2017-09-14
[62] 3,017,172
[30] US (62/305,279) 2016-03-08
[30] US (62/355,174) 2016-06-27
[30] US (62/355,669) 2016-06-28
[30] US (62/360,758) 2016-07-11
[30] US (62/360,762) 2016-07-11

[21] **3,158,525**
[13] A1

[25] EN
[54] **REAL-TIME REPORTING BASED ON INSTRUMENTATION OF SOFTWARE**
[54] **COMPTE-RENDU EN TEMPS REEL SUR LA BASE DE L'INSTRUMENTATION DE LOGICIELS**
[72] LIU, PHILLIP, US
[72] MUKHERJI, ARIJIT, US
[72] RAMAN, RAJESH, US
[72] GRANDY, KRIS, US
[72] LINDAMOOD, JACK, US
[71] SPLUNK INC., US
[22] 2015-09-22
[41] 2016-04-14
[62] 2,962,760
[30] US (62/061,616) 2014-10-08
[30] US (14/800,679) 2015-07-15
[30] US (14/800,677) 2015-07-15

[21] **3,158,540**
[13] A1

[51] **Int.Cl. B62D 25/24 (2006.01)**
[25] EN
[54] **ACCESS PORT FOR VEHICLE**
[54] **ORIFICE D'ACCES A UN VEHICULE**
[72] EZRA, KYLE ALLEN, US
[72] DREWS, EDWIN RAY, US
[71] SHEM, LLC, US
[22] 2015-01-22
[41] 2015-07-22
[62] 2,879,722
[30] US (14/161,468) 2014-01-22

[21] **3,158,542**
[13] A1

[51] **Int.Cl. G21K 1/00 (2006.01) G01N 27/622 (2021.01)**
[25] EN
[54] **COMPACT HIGH VOLTAGE RF GENERATOR USING A SELF-RESONANT INDUCTOR**
[54]
[72] HILEY, ALEX PAUL, GB
[71] SMITHS DETECTION-WATFORD LIMITED, GB
[22] 2013-05-15
[41] 2013-11-21
[62] 2,873,525
[30] US (61/647,143) 2012-05-15

[21] **3,158,548**
[13] A1

[51] **Int.Cl. A01B 43/00 (2006.01) E01H 1/00 (2006.01) E01H 15/00 (2006.01) G05B 19/04 (2006.01) G05D 1/02 (2020.01) H04N 7/18 (2006.01)**
[25] EN
[54] **OBJECT IDENTIFICATION AND COLLECTION SYSTEM AND METHOD**
[54]
[72] FREI, BRENT RONALD, US
[72] MCMASTER, DWIGHT GALEN, US
[72] RACINE, MICHAEL, US
[72] DU PREEZ, JACOBUS, US
[72] DIMMIT, WILLIAM DAVID, US
[72] BUTTERFIELD, ISABELLE, US
[72] HOLMGREN, CLIFFORD, US
[72] RHYS-JONES, DAFYDD DANIEL, US
[72] KOLLMORGEN, THAYNE, US
[72] NAYAK, VIVEK ULLAL, US
[71] TERRACLEAR INC., US
[22] 2019-07-12
[41] 2020-01-16
[62] 3,106,014
[30] US (62/697,057) 2018-07-12

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[21] **3,158,551**
[13] A1

[51] **Int.Cl. A62B 23/00 (2006.01) A41D 13/11 (2006.01) A62B 18/02 (2006.01)**
[25] EN
[54] **FILTER MASK**
[54] **MASQUE FILTRANT**
[72] CONRAD, WAYNE ERNEST, CA
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA
[22] 2020-06-26
[41] 2021-09-09
[62] 3,085,021
[30] US (62/987,067) 2020-03-09
[30] US (62/993,480) 2020-03-23
[30] US (63/004,803) 2020-04-03
[30] US (63/010,468) 2020-04-15
[30] US (63/027,237) 2020-05-19

[21] **3,158,552**
[13] A1

[51] **Int.Cl. A01B 43/00 (2006.01) E01H 1/00 (2006.01) E01H 15/00 (2006.01) G05B 19/04 (2006.01) G05D 1/02 (2020.01) H04N 7/18 (2006.01) A63B 47/02 (2006.01)**
[25] EN
[54] **OBJECT IDENTIFICATION AND COLLECTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'IDENTIFICATION ET COLLECTE D'OBJETS**
[72] BUTTERFIELD, ISABELLE, US
[72] DIMMIT, WILLIAM DAVID, US
[72] DU PREEZ, JACOBUS, US
[72] FREI, BRENT RONALD, US
[72] HOLMGREN, CLIFFORD, US
[72] KOLLMORGEN, THAYNE, US
[72] MCMASTER, DWIGHT GALEN, US
[72] NAYAK, VIVEK ULLAL, US
[72] RACINE, MICHAEL, US
[72] RHYS-JONES, DAFYDD DANIEL, US
[71] TERRACLEAR INC., US
[22] 2019-07-12
[41] 2020-01-16
[62] 3,106,014
[30] US (62/697,057) 2018-07-12

[21] **3,158,572**
[13] A1

[51] **Int.Cl. C12N 7/01 (2006.01) C07K 14/135 (2006.01) C12N 15/45 (2006.01) C12N 15/863 (2006.01) C12Q 1/70 (2006.01)**
[25] EN
[54] **RECOMBINANT MODIFIED VACCINIA VIRUS ANKARA (MVA) RESPIRATORY SYNCYTIAL VIRUS (RSV) VACCINE**
[54] **VACCIN CONTRE LE VIRUS RESPIRATOIRE SYNCYTIAL (VRS) A BASE DE VIRUS DE LA VACCINE ANKARA MODIFIE (MVA) RECOMBINANT**
[72] CHAPLIN, PAUL, DE
[72] CHEMINAY, CEDRIC, DE
[72] STEIGERWALD, ROBIN, DE
[71] BAVARIAN NORDIC A/S, DK
[22] 2013-03-15
[41] 2014-02-06
[62] 2,879,915
[30] EP (12005594.2) 2012-08-01
[30] US (61/678,367) 2012-08-01

[21] **3,158,573**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR RETURNING AN EARLY POSITIONING FIX**
[54]
[72] JIANG, YONGJIN, US
[72] EDGE, STEPHEN WILLIAM, US
[72] BURROUGHS, KIRK ALLAN, US
[72] FISCHER, SVEN, US
[72] LIN, LE-HONG, US
[71] QUALCOMM INCORPORATED, US
[22] 2015-02-11
[41] 2015-08-20
[62] 2,936,589
[30] US (61/938,694) 2014-02-12
[30] US (62/033,617) 2014-08-05
[30] US (14/581,580) 2014-12-23

[21] **3,158,644**
[13] A1

[51] **Int.Cl. B01D 61/12 (2006.01) B01D 61/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PERFORMING A BATCH REVERSE OSMOSIS PROCESS USING A TANK WITH A MOVABLE PARTITION**
[54] **PROCEDE ET SYSTEME POUR EFFECTUER UN PROCESSUS D'OSMOSE INVERSE PAR LOTS A L'AIDE D'UN RESERVOIR AVEC UNE CLOISON MOBILE**
[72] OKLEJAS, JR., ELI, US
[71] FLUID EQUIPMENT DEVELOPMENT COMPANY, LLC, US
[22] 2017-10-17
[41] 2018-04-26
[62] 3,039,782
[30] US (62/409,021) 2016-10-17
[30] US (15/783,184) 2017-10-13

[21] **3,158,648**
[13] A1

[51] **Int.Cl. F16L 23/04 (2006.01) A61M 39/10 (2006.01) F16B 7/04 (2006.01) F16L 33/035 (2006.01) F16L 37/08 (2006.01)**
[25] EN
[54] **A TAMPER-EVIDENT COVER**
[54] **COUVERCLE INVOLABLE**
[72] WHITE, NICK, GB
[72] SILLITOE, CHRIS, GB
[71] BIO PURE TECHNOLOGY LIMITED, GB
[22] 2017-04-20
[41] 2017-10-26
[62] 3,095,886
[30] GB (1606951.0) 2016-04-21
[30] GB (1620014.9) 2016-11-25

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[21] **3,158,660**
[13] A1

[25] EN
[54] **LASER SYSTEM WITH PULSE MODULATION AND CORRESPONDING METHOD OF USE**
[54] **SYSTEME LASER A MODULATION D'IMPULSION ET PROCEDE D'UTILISATION CORRESPONDANT**
[72] SHAZLY, TAREK, A., US
[72] LATINA, MARK A., US
[71] VISUMEDICS, INC., US
[22] 2016-10-18
[41] 2017-05-04
[62] 3,001,534
[30] US (62/246,793) 2015-10-27

[21] **3,158,664**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01)**
[25] EN
[54] **ANALYSIS OF GLUCOSE MEDIAN, VARIABILITY, AND HYPOGLYCEMIA RISK FOR THERAPY GUIDANCE**
[54] **ANALYSE DE VALEUR MEDIANE DE GLYCEMIE, DE VARIABILITE ET DE RISQUE D'HYPOGLYCEMIE POUR SUPERVISION DE THERAPIE**
[72] DUNN, TIMOTHY C., US
[72] BERMAN, GLENN, US
[72] BERNSTEIN, DANIEL M., US
[72] BUDIMAN, ERWIN S., US
[72] CROUTHER, NATHAN, US
[72] DONIGER, KENNETH J., US
[72] HAYTLER, GARY A., US
[71] ABBOTT DIABETES CARE INC., US
[22] 2013-12-31
[41] 2014-07-03
[62] 2,895,546
[30] US (13/732,184) 2012-12-31

[21] **3,158,668**
[13] A1

[51] **Int.Cl. H04W 4/021 (2018.01) H04W 4/90 (2018.01) G08B 15/00 (2006.01) G08B 27/00 (2006.01)**
[25] EN
[54] **DIGITAL FINGERPRINT TRACKING**
[54]
[72] HUTZ, DAVID JAMES, US
[71] ALARM.COM INCORPORATED, US
[22] 2015-12-30
[41] 2016-07-07
[62] 2,972,721
[30] US (62/098,282) 2014-12-30

[21] **3,158,675**
[13] A1

[25] EN
[54] **DRUG DELIVERY CONJUGATES, AND METHODS FOR TREATING DISEASES CAUSED BY PSMA EXPRESSING CELLS**
[54]
[72] VLAHOV, IONTCHO RADOSLAVOV, US
[72] REDDY, JOSEPH ANAND, US
[72] BLOOMFIELD, ALICIA, US
[72] DORTON, RYAN, US
[72] NELSON, MELISSA, US
[72] VETZEL, MARILYNN, US
[72] LEAMON, CHRISTOPHER PAUL, US
[71] ENDOCYTE, INC., US
[22] 2013-11-14
[41] 2014-05-22
[62] 2,891,476
[30] US (61/726,991) 2012-11-15
[30] US (61/788,382) 2013-03-15
[30] US (61/875,971) 2013-09-10

[21] **3,158,679**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) C07H 19/10 (2006.01) C07H 19/14 (2006.01) C07H 19/20 (2006.01) C12P 19/34 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **NUCLEOTIDE ANALOGUES**
[54]
[72] MARMA, MONG SANO, US
[72] OLEJNIK, JERZY, US
[72] KORBOUKH, ILIA, US
[71] QIAGEN SCIENCES LLC, US
[22] 2016-11-04
[41] 2017-05-11
[62] 3,004,060
[30] US (62/251,884) 2015-11-06
[30] US (62/327,555) 2016-04-26

[21] **3,158,697**
[13] A1

[51] **Int.Cl. B01D 61/10 (2006.01) C02F 1/44 (2006.01) E21B 33/035 (2006.01) E21B 33/06 (2006.01) E21B 33/064 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **SUBSEA PUMPING APPARATUSES AND RELATED METHODS**
[54]
[72] DALTON, JOHN MATTHEW, US
[72] BABBITT, GUY ROBERT, US
[72] PEREIRA, LUIS, US
[72] KERSEY, JAMES EDWARD, US
[71] TRANSOCEAN INNOVATION LABS LTD, KY
[22] 2014-08-15
[41] 2015-02-19
[62] 2,920,676
[30] US (61/866,483) 2013-08-15

[21] **3,158,720**
[13] A1

[25] EN
[54] **CONTENT SEGMENT DETECTION AND REPLACEMENT**
[54]
[72] O'HARE, DAVID ANDREW, US
[72] MAO, WEIDONG, US
[72] NAFSHI, ELAD, US
[72] VICKERS, MARK ANDREW, US
[72] BROOME, GREGORY ALLEN, US
[72] KOTAY, SREE, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2014-06-25
[41] 2014-12-26
[62] 2,855,183
[30] US (13/927,804) 2013-06-26

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,158,784**
[13] A1

[51] **Int.Cl. A47G 9/00 (2006.01) A47G
9/08 (2006.01) A47G 9/10 (2006.01)**

[25] EN

[54] **COMBINATION PILLOW AND
SLEEPING BAG OR BLANKET OR
COMFORTER**

[54]

[72] SUTTON, JOSEPH A., US

[72] WARD, WILLIAM, US

[71] JAY AT PLAY INTERNATIONAL
HONG KONG LIMITED D/B/A JAY
AT PLAY, HK

[22] 2020-10-09

[41] 2021-04-11

[62] 3,112,199

[30] US (62/914,173) 2019-10-11

[30] US (62/935,239) 2019-11-14

[21] **3,158,795**
[13] A1

[25] EN

[54] **PHARMACOPHORE FOR TRAIL
INDUCTION**

[54]

[72] JANDA, KIM D., US

[72] JACOB, NICHOLAS T., US

[72] LOCKNER, JONATHAN W., US

[71] THE SCRIPPS RESEARCH
INSTITUTE, US

[22] 2015-03-30

[41] 2015-10-08

[62] 2,944,452

[30] US (61/972,689) 2014-03-31

[21] **3,159,253**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P
35/00 (2006.01) C07K 16/00 (2006.01)
C07K 16/28 (2006.01)**

[25] EN

[54] **WEEKLY DOSING REGIMENS
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ANTIBODY DRUG-CONJUGATES**

[54] **REGIMES POSOLOGIQUES
HEBDOMADAIRES POUR DES
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CD30 VC-PAB-MMAE -
MEDICAMENT**

[72] IHLE, NATHAN, US

[72] KENNEDY, DANA, US

[72] SIEVERS, ERIC, US

[72] SUN, MICHAEL, US

[71] SEAGEN INC., US

[22] 2010-01-08

[41] 2010-07-15

[62] 2,749,115

[30] US (61/143,713) 2009-01-09

[30] US (61/152,205) 2009-02-12

[30] US (61/175,719) 2009-05-05

[30] US (61/264,222) 2009-11-24

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10353744 CANADA LTD.	3,084,732	ALEXION		ARRAY BIOPHARMA INC.	3,049,136
10353744 CANADA LTD.	3,115,627	PHARMACEUTICALS,		ASAP BREATHEASSIST PTY	
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CONSTANCIS, ALAIN	3,070,798	DENNY, CHRISTOPHER G. (DECEASED)	2,823,729	ENGMANN, JAN BENDIX	2,921,788
CONTRERAS ROJO, MARINELA	3,033,759	DEPREZ, NICHOLAS RYAN	2,932,433	EPIROC ROCK DRILLS AKTIEBOLAG	2,917,216
COOK, DAVID MICHAEL	2,957,344	DER MARDEROSIAN, DANIEL R.	3,064,747	EPIROC ROCK DRILLS AKTIEBOLAG	2,944,724
COOPER, ALEXANDER	2,952,323	DERRAUGH, ERIN LENORE	2,934,371	EPITHERAPEUTICS APS	3,095,019
CORPORATION MICRO BIRD INC.	2,911,862			ERIKSSON, BENGT	2,930,132
CORTEVA AGRISCIENCE LLC	2,863,400			ERIKSSON, ERIK	3,079,005

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ETCHEPARE, PHILIPPE	2,943,150	FONTEM HOLDINGS 4 B.V.	3,047,478	GENSON, KIRSTEN L.	3,069,477
ETHICON ENDO-SURGERY, INC.	2,900,337	FORBES JONES, ROBIN M.	2,929,946	GENTELON, INC.	2,825,428
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EVANS, MICHAEL EUGENE	2,957,344	FORSBERG, ANDREW T.	2,951,880	GEORGE, PANAGIOTIS E.	3,000,445
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F. HOFFMANN-LA ROCHE AG	2,970,048	FOSTER, CAMERA JANELLE	3,059,126	GEYER, CHRISTOPHER	2,998,790
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FAN, JUNFA	2,892,042	FRANZ, MAIK	2,956,295	GIDDENS, TAYLOR L.	2,982,346
FARANDA, LEO	3,071,548	FRAUZY, VINCENT	2,946,250	GIESKE, THOMAS KOLL	
FARINA, ANTONIO	2,950,454	FRAZER, MARK J.	2,857,355	PORTER	3,035,083
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QUEBEC	2,808,679	TECHNOLOGIES GMBH & CO. KG	3,065,688	GODING, JONATHAN W.	2,989,790
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FELIX, AUGUSTUS	2,969,382	FUKE, KAZUHIRO	2,976,882	GONIA, PATRICK	3,051,267
FENG, HUI	2,718,495	FULL, ANDREW P.	3,082,141	GONZE, THOMAS JOSEPH	3,021,340
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FIEDLER, ALAN	2,930,878	GAN, GUO DONG	3,122,398	GOTO, TOSHIHIRO	3,000,614
FILLENWORTH, TRENT	3,057,278	GANESAN, KAVITHA	2,951,880	GOUCH, MARTIN PHILIP	3,002,319
FINAN, DANIEL	3,012,444	GAO, WENXIU	3,064,747	GOVARI, ASSAF	2,883,162
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FLEXGEN POWER SYSTEMS, INC.	2,972,897	GE OIL & GAS ESP, INC.	3,068,250	GROSS, ADAM F.	3,000,445
FLIPP CORPORATION	2,863,426	GELFERT, STEPHAN	2,928,157	GRUBBS, ALAN	2,796,158
		GENERAL ELECTRIC		GRUNENFELDER, ROBERT	2,893,365
		COMPANY	2,884,651	GRYLER, JIM	2,944,724
				GU, CHONG	3,065,410

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GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	3,041,740	HECKMAN, IAN K.	3,080,761	HUDSON, DAVID ZACHARY	3,032,374
GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	3,064,468	HEICHELE, THOMAS	2,902,265	HULKA S.R.L.	2,943,236
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GUPTA, VIVEK	2,945,399	HENRY, MANUS P.	2,846,656	HWANG, CHIN-CHAU	2,929,853
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GUTHRIE, TREVOR B.	3,066,410	HERRMANN, KEN	2,885,489	HWU, HAI-GWO	2,946,153
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HANES OPERATIONS EUROPE SAS	2,964,855	HITACHI ENERGY SWITZERLAND AG	3,029,460	IMPAX LABORATORIES, LLC	2,926,082
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HARDAN, ANTONIO	2,873,241	HOLLMAN, KEITH A.	3,046,784	ISO, YOSHIYUKI	3,066,075
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HAWES, WILLIAM ROLAND	3,002,319	HSU, ANN	2,926,082	JAYARAMAN, BASKAR	3,003,617
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		HUAWEI TECHNOLOGIES CO., LTD.	3,068,655	JFE STEEL CORPORATION	3,061,297
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		HUBBARD, MICHAEL J.	3,057,294	JIANG, SHENG	3,115,683
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JOHNSON, MARQUITA	2,859,681	KIM, YOUNG-JU	3,076,812	LANDERS, JAMES	2,865,250
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JOHNSON, PETER L.	2,937,870	KIMBELL, MARTIN JENNINGS	3,025,971	LAPERRIERE, JEAN- FRANCOIS	3,140,503
JOHNSON, ROBERT WILLIAM	2,972,897	KINDLE, JAY	3,098,505	LAPOINTE, PATRICK	2,954,437
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JU, NAN	3,079,489	KLEPPA, ERLING	2,946,225	LASTIWKA, MARTIN	3,060,778
JULIEN, ALAIN	2,958,703	KNUTSON, KELLY J.	3,046,784	LAUGHLIN, BRIAN DALE	2,966,099
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KAMBOURAKIS, SPIROS	2,796,158	KOSS, VALERIE	3,004,575	LEE, DAVID	3,025,971
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RAO, ERCOLE	3,071,750	RYOU, JIN HO	3,068,798	SCHWEIGERT, BRADLEY D.	3,074,956
RAPID PATHOGEN		SABRE INTELLECTUAL		SCHWEIZER, MARKUS	3,007,879
SCREENING, INC.	2,710,822	PROPERTY HOLDINGS		SCHWEIZER, MARTIN	2,785,665
RASANEN, JUKKA	3,079,005	LLC	2,905,956	SCOTT, JOHN L., SR.	2,852,435
RATHS, HANS-CHRISTIAN	2,940,089	SACHEM, INC.	3,048,675	SCOTT, LUISA	2,917,527
RATTUNDE AG	3,083,590	SACMI COOPERATIVA		SCOTT, ORION N.	2,865,250
RATTUNDE, ULRICH	3,083,590	MECCANICI IMOLA		SCOTT, RYAN N.	3,069,477
RAWAT, RICHA	2,967,641	SOCIETA' COOPERATIVA	2,938,355	SEAGEN INC.	2,932,647
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REDDY, RAVISEKHARA P.	2,932,433	SAFRAN AIRCRAFT ENGINES	2,964,815	SEIDEL, BRIAN J.	3,046,784
REEVES, BRIAN PAUL	3,068,250	SAFRAN AIRCRAFT ENGINES	2,966,306	SEIDER, GARY LEONARD	3,003,476
				SEMAR, MARTIN	2,940,089

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SERRET AVILA, JAVIER	2,938,334	SPENDSCAPE INC.	2,990,697	T-MOBILE USA, INC.	3,108,677
SERVICENOW, INC.	3,003,617	SPIHLMAN, MICHAEL P.	3,148,681	TABERLET, JEAN-PHILIPPE	2,950,832
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SHARKNINJA OPERATING LLC	3,064,747	SPRINGER, MATTHEW	2,865,250	TAIWAN FU HSING INDUSTRIAL CO., LTD.	3,028,810
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SHARPE, PAULA LOUISE	2,932,433	SRINIVASAN, ASHWIN	2,967,641	TAKANO, KENJI	3,066,075
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SHIN, SUNG KEE	3,068,798	STANDKER, LUDGER	2,968,054	TANG, HAI	3,041,740
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SHLOMOT, EYAL	3,068,655	STEFANI, EMI	2,958,999	TARDIF, FREDERIC	2,989,888
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SIMON FRASER UNIVERSITY	2,982,373	STOHR, WERNER	2,902,265	TESAT-SPACECOM GMBH & CO. KG	2,973,088
SIMPSON, ALLEN	2,930,298	STOJANOVSKI, ALEXANDRE S.	2,945,399	TESLA, INC.	3,066,410
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SIT, SING-YUEN	2,944,778	STOUT, ROGER E.	3,022,133	THAKUR, ANIRUDDHA	3,003,617
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SMITH, EDWARD	2,970,048	SUBSURFACE, INC.	2,962,288	THE BOEING COMPANY	3,021,340
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TREYBIG, DUANE	2,929,853	VARIATION BIOTECHNOLOGIES INC.	2,867,789	VONARBURG, CEDRIC PIERRE	2,943,376
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AGS ZEPHYR INC.	3,114,226	CAI, MIN	3,140,772	EICHBAUER, GEORGE	3,140,883
AIRBUS HELICOPTERS	3,137,643	CAI, YONGZHONG	3,141,096	ELAWNY, SHARIF S.	3,101,290
ALESIO, SALVATORE	3,114,226	CAI, ZHIJUN	3,139,435	EMAD, ISAAC	3,140,969
ALLSTATE INSURANCE COMPANY	3,140,969	CAMERON, JAMES ALLAN DOUGLAS	3,140,898	ENGELBREIT, PHILIPP	3,141,046
ALSTOM TRANSPORT TECHNOLOGIES	3,140,785	CANADIAN TIRE CORPORATION LIMITED	3,141,105	EP ARMS GMBH	3,141,046
AOI SEIKI CO., LTD.	3,138,471	CAO, HUAN	3,141,112	ERIKSHOLM, JOHANNES ZAAR	3,140,686
ASTHANA, SIDDHARTHA AVAILED TECHNOLOGIES CORP.	3,140,542	CAPERN, JOSEPH MATTHEW	3,101,709	EVITT, RONALD	3,117,641
AVILA, LUIS FELIPE	3,139,673	CAPITAL ONE SERVICES, LLC	3,137,513	F.D. SIGNWORKS, LLC	3,140,829
B & B METALS, INC.	3,140,766	CAPITAL ONE SERVICES, LLC	3,140,141	FADAEI, HOSSEIN	3,101,668
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		DANKO, TODD WILLIAM	3,140,376	GRAHAM, ANDREW CRISPIN	3,140,376
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SAGEMCOM BROADBAND		SUNCOR ENERGY INC.	3,101,567	ZHANG, FEIHU	3,140,854
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SAVANT TECHNOLOGIES		TEXTRON INNOVATIONS			
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AHMED, ALI	3,160,495	AMGEN INC.	3,160,143	ARMSTRONG, COURTNEY	3,154,937
AHN, BYUNG HOON	3,154,874	AMGEN INC.	3,160,208	ARRAU, FRANCISCO	3,155,367
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AUKEMA, KELLY GARDNER	3,155,387	BAYER AKTIENGESELLSCHAFT	3,160,035	BIOVENTUS, LLC	3,160,201
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COMPAGNIE GENERALE DES		CUI, JIANMEI	3,159,785	DESAI, MAHESH	3,154,949
ETABLISSEMENTS		CUI, QI	3,160,070	DESANNO, ROBERT	3,155,039
MICHELIN	3,155,349	CUI, YAN	3,154,850	DETRAVERSAY, MAXIME	3,154,952
COMPUGEN LTD.	3,160,162	CUTKOSKY, MARK R.	3,155,212	DEVER, DANIEL P.	3,160,172

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DEVIN, JULIE	3,159,909	ECCOGENE (SHANGHAI) CO., LTD.	3,155,114	TECHNOLOGIES LLC	3,155,238
DEXTER AXLE COMPANY, LLC	3,155,023	ECOLE NORMALE SUPERIEURE	3,155,199	EXACT SCIENCES CORPORATION	3,155,205
DHALIWAL, RAJDEEP S.	3,155,387	ECOTECH S.R.L.	3,160,082	EXXONMOBIL CHEMICAL PATENTS INC.	3,159,914
DIAZ, LUIS	3,160,143	ECOVATIVE DESIGN LLC	3,155,385	EXXONMOBIL RESEARCH AND ENGINEERING COMPANY	3,159,772
DIAZ, LUIS	3,160,208	EDESON, STEVEN	3,138,182	EXXONMOBIL UPSTREAM RESEARCH COMPANY	3,159,759
DICKS, MATTHEW	3,159,913	EDLUND, THOMAS	3,154,915	EYSSAUTIER, FRANCOIS	3,155,473
DIETZ, LISA	3,160,035	EDMISTON, ELIZABETH	3,160,106	F. HOFFMANN-LA ROCHE AG	3,155,308
DIGGS INC.	3,154,937	EFFRON, JUSTIN	3,159,758	FABRICATION ELCARGO INC.	3,155,412
DIMBERG, CHRIS	3,154,811	EFNER, JOHN D.	3,160,132	FAKHOURI, SALIM M.S.	3,155,335
DINAN, ESMAN	3,160,123	EGAN, JOHN J. III	3,155,470	FALCONE, SESTINA	3,155,381
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DING, ZHAOWEI	3,155,223	EGOROV, SERGEY	3,160,432	FANG, CIFENG	3,154,966
DIXON, DARRYL D.	3,159,951	EISELE, TIM	3,155,337	FARADAY PHARMACEUTICALS, INC.	3,160,144
DOBROWITSKY, JOSHUA	3,160,192	EKART, ERIN G.	3,154,880	FARINA, STEFANO FEDELE	3,160,082
DOCHERTY, CONNOR JAMES	3,154,911	EKART, MICHAEL PAUL	3,154,880	FARMHANNONG CO., LTD.	3,154,874
DOLAN, THOMAS A.	3,155,543	EKLUND, SCOTT	3,160,157	FARRELL, DAVID J.	3,160,130
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DONNER, TOBIAS	3,155,037	ELEMENT SIX (UK) LIMITED	3,155,030	FENG, XIATING	3,142,646
DONOVAN, RYAN	3,154,937	ELGAMACY, MOHAMMAD	3,159,912	FENG, XICHUN	3,160,068
DOTTINO, PETER	3,155,018	ELMENDORF, DAVID	3,155,376	FENSTER, ERIK	3,160,307
DOTTINO, PETER	3,155,044	ELTOOKHY, OMAR MOHAMED SALAH		FERNANDEZ GARCIA, BORJA FERNANDEZ SANMIGUEL, LUIS JORGE	3,154,833
DOW, JOHN W.	3,159,761	ELDIN AHMED	3,160,078	FERRUM PACKAGING AG	3,160,328
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DOWER, WILLIAM J.	3,160,466	EMERGENT TRAVEL HEALTH INC.	3,155,315	FETVEDT, JEREMY ERON	3,155,211
DOZIO, SIMONE	3,155,240	EMMA, JENKINS	3,155,082	FIEDLER, ERIK	3,155,432
DRAGER, DORTHE BETTINA	3,154,842	EMMA, STANLEY	3,155,082	FIELD EFFECT SOFTWARE INC.	3,155,237
DREIER, JEAN-JACQUES	3,154,952	EMPL, GUNTER	3,159,905	FILIMADE HOLDING B.V.	3,155,532
DRESSER, CHARLES HOLLAND	3,160,189	EMULATE, INC.	3,154,805	FILTER, TREVOR	3,159,773
DRIFLOWER, LLC	3,155,364	ENGELL, HAVARD	3,159,937	FILVAROFF, ELLEN	3,154,923
DRISCOLL, LUCILE	3,159,758	ENGELL, HAVARD	3,160,292	FINKELSHTAIN, GENNADI	3,154,970
DROUET, CYRIL MICHEL	3,155,057	ENGINEERED FLOORS LLC	3,155,392	FIORE, WALTER	3,160,295
DSI UNDERGROUND AUSTRALIA PTY LIMITED	3,160,321	ENGLISH, NIALL	3,154,909	FISCHER, DANIEL	3,159,905
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DU, XIAOPING	3,160,316	ENTEELIS, DYLAN E.	3,159,787	FISHER & PAYKEL HEALTHCARE LIMITED	3,160,460
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DUBOURDIEU, DANIEL J.	3,159,777	ENVOREM LIMITED	3,160,117	FITZGERALD, PETER	3,160,135
DUBREUIL, OLIVIER	3,154,921	EQUELS, THOMAS K.	3,155,360	FLAGSHIP PIONEERING, INC.	3,160,097
DUERR, MANUELA	3,154,881	EQUINOR ENERGY AS	3,160,299	FLANNERY, CARL	3,160,201
DUERST, PETER	3,159,758	EQUUS UK TOPCO LTD	3,155,218	FLETCHER, JAMES DILLARD	3,155,333
DUMITRACHE, ROMEO GABRIEL	3,154,885	ERASLAN, HASAN HUSEYIN	3,154,978	FLEXA NETWORK INC.	3,159,773
DUNAS, FINN	3,160,027	ESCALIER, THIBAUT	3,159,897	FLEXFACTORY AG	3,160,112
DUNCAN, KEVIN JOHN	3,155,218	ESCP GROUP LLC	3,155,454	FLICKINGER, DANIEL ARTHUR	3,160,205
DUNETZ, JOSHUA R.	3,159,951	ESCRIBANO BAEYENS, ANTONIO JOSE	3,160,183	FLOROS, MICHAEL	3,160,156
DUNNE, JUDE	3,154,848	ESCUDIE, YANNICK	3,154,904	FLUEGGE, JAN	3,160,529
DUPONT POLYMERS, INC.	3,159,953	ESTELLE, ADAM	3,155,082	FLYNN, ANTHONY	3,155,389
DURCH, NICOLE MARIE	3,155,523	ESTES, BRAM	3,160,482	FOERSTER, FLORIAN	3,160,529
DURIG, THOMAS	3,155,042	EUREKA! AGRESEARCH PTY LTD	3,155,389	FONG, HELEN	3,160,113
DYGERT, DOUGLAS MILES	3,155,300	EVANS, CHRIS	3,159,758		
E INK CORPORATION	3,160,432	EVANS, DAVID WILLIAM	3,160,321		
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EAR TECH LLC	3,160,168	EVERSOLE, LESLIE	3,155,507		
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FRESENIUS MEDICAL CARE HOLDINGS, INC.	3,160,524	GEODYNAMICS, INC.	3,154,825	GRAY, JESSE	3,159,758
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FUELCELL ENERGY, INC.	3,159,772	GEVORKYAN, DAVID	3,155,227	GREENE, DANIEL GERARD	3,155,125
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FUTAMURA, HARUKA	3,160,514	GIASSON, COREY	3,155,397	GRILL, JEAN-PIERRE	3,155,199
FUTRAL, DANIEL M.	3,155,300	GIBERT, GUILLAUME	3,155,473	GRIMALDI, RACHEL	3,154,950
GA.MA S.R.L	3,155,330	GIES, PAUL D.	3,154,954	GROGAN, BRYAN MATTHEW	3,160,151
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GADOT, HAREL	3,159,753	GILBERT, ALAN BENJAMIN	3,159,917	GROSJEAN, FRANCOIS	3,155,368
GAEBELE, TRACY LEE	3,154,908	GILBERT, ALAN BENJAMIN	3,160,464	GROW BIOTECH PLC	3,160,139
GAERKE, BRIAN	3,159,767	GILDERMASTER, YVONNE	3,160,320	GSCHIEL, STEFAN	3,159,532
GAITLINE AS	3,159,937	GILEAD SCIENCES, INC.	3,159,951	GU, YUANNING	3,159,750
GAITLINE AS	3,160,292	GILL, ADRIAN L.	3,160,142	GUAN, AIYING	3,155,231
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GAO, RONG	3,159,750	GIROUX-BERNIER, DOMINIC	3,155,043	GUNS, WALTER	3,159,910
GAO, XIAOLIANG	3,159,927	GITTER, BURKHARD	3,160,331	GUO, FENG	3,155,372
GAO, YANG	3,159,789	GLAXOSMITHKLINE INTELLECTUAL PROPERTY (NO. 4) LTD.	3,155,219	GUO, FENG	3,155,387
GARBARINI, WILLIAM NICHOLAS	3,155,035	GLEAVE, LAURA	3,159,766	GUO, JINGYUN	3,154,850
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GARNER, NICHOLAS WILLIAM	3,160,495	GOEDEKEN, DOUGLAS L.	3,159,769	GUO, ZIFANG	3,159,750
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		GOLDENBERG, NIR	3,159,757	GUPTA, AMIT	3,155,039
		GOMEZ, NATALIA	3,160,143	GUTOWSKI, STEPHEN	3,159,915
		GOMEZ, NATALIA	3,160,208	GUVENILIR, ABBAS ABDULLAH	3,155,029
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HASHIMOTO, YUKI	3,160,510	HILBERT, PHILIPP	3,159,918	HUANG, YEQUAN	3,154,850
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LOU, JINFANG	3,154,920	MAO, ZHUQING	3,144,930	MCDONALD, MATTHEW P.	3,154,811
LOUDENSLAGER, JOHN	3,160,474	MARCINKOWSKI, STANLEY	3,155,002	MCDUFFEE, MICHAEL	3,154,937
LOVE, JONATHAN	3,155,297	MARGETSON, GUY	3,154,913	MCGLASHAN, LYDIA	
LOW, CHEE MENG	3,155,510	MARJI, GEORGE Y.	3,155,224	KATHLEEN	3,160,460
LOWINGS, MALCOLM	3,151,543	MARKEVICIUS, VYTAUTAS	3,160,527	MCGOVERN, JENNY	3,155,229
LOWINGS, MICHAEL	3,151,543	MARONEY, MICHAEL	3,159,774	MCINTYRE, GAVIN REIM	3,155,385
LU, BO	3,155,485	MARSDEN, DOUGLAS	3,154,937	MCKERNAN, KEVIN	3,160,298
LU, GANG	3,154,890	MARTIGNETTI, JOHN	3,155,018	MCLAUGHLIN, JAMES	3,155,404
LU, JIANGPING	3,160,068	MARTIGNETTI, JOHN	3,155,044	MCLEMORE, T. NEIL	3,152,697
LU, LEI	3,155,006	MARTIN		MCLORN, MICHAEL	3,155,240
LU, XIJIA	3,155,211	PHARMACEUTICALS, INC.	3,160,104	MCNAMARA, JAMES O.	3,160,102
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LUI, REBECCA M.	3,155,542	MARTIN, KATHLEEN, ANN	3,138,182	MEAKIN, ROBERT JOHN	3,155,332
LUKAN, SEAN	3,160,182	MARTIN, KENDRICK	3,155,412	MEARIG, STEPHEN G.	3,155,339
LUONG, KENKEN	3,155,542	MARTIN, NATHAN	3,160,178	MEDICINAL GENOMICS	3,160,298
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LUTRON TECHNOLOGY COMPANY LLC	3,155,241	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	3,160,467	MEDIMMUNE LIMITED	3,154,999
LV, LIANG	3,144,930	MASUDOME, JUN	3,159,755	MEIBOM, DANIEL	3,160,035
LYU, LU	3,159,758	MASUDOME, JUN	3,160,514	MEKURI, GLEN LAAI	3,155,080
M.E.D. ENERGY INC.	3,154,818	MATERION CORPORATION	3,155,324	MEMBION GMBH	3,159,531
M.E.D. ENERGY INC.	3,155,461	MATHARU, DALJIT	3,155,885	MEMORIAL SLOAN KETTERING CANCER CENTER	3,159,747
MA, GUOZHONG	3,155,457	MATHIEU, MARGARET	3,159,758	MENKEN, ULRICH	3,154,926
MA, HONGJUAN	3,155,231	MATIS, LOUIS	3,154,881	MENSING, SVEN	3,160,091
MA, QI	3,154,957	MATOSEVIC, SANDRO	3,155,246	MERCK PATENT GMBH	3,155,219
MA, XIAOYING	3,160,520	MATSUBA, YOKO	3,155,352	MERIT, JEFFREY E.	3,159,951
MA, XUAN	3,160,520	MATSUDA, SHIGEO	3,160,329	MESO SCALE TECHNOLOGIES, LLC.	3,160,211
MAABAROT PRODUCTS LTD.	3,155,406	MATSUNAGA, KENICHI	3,160,309	MEYERS, KENNETH M.	3,160,478
MACALLISTER, THOMAS W.	3,160,104	MATSUO, ATSUSHI	3,159,931	MICHALSKI, REBECCA	3,154,811
MACLEAN, STUART KEITH	3,155,243	MATSUOKA, HIROTO	3,160,309	MICHIGAN TECHNOLOGICAL UNIVERSITY	3,155,337
MACMULLAN, SAMUEL JAY	3,160,146	MATSUOKA, HIROTO	3,160,510	MICROBOT MEDICAL LTD.	3,159,753
MADDUX, DUGAN W.	3,160,524	MATSUSHIMA, NAOTO	3,155,445	MICROPORT NEUROTECH (SHANGHAI) CO., LTD.	3,155,353
MADUREIRA, ANTONIO V.	3,155,302	MATTHEW, VINCENT	3,155,082	MIGUEL, PAUL W.	3,160,428
MAEDA, SAYAKA	3,155,284	MATZELLE, RICHARD A.	3,155,514	MILHEIM, GEORGE HARDER	3,159,768
MAENZ, DAVID	3,155,397	MAURER, ANDREAS	3,160,364	MILLER, ANDREW ROSS	3,160,489
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MAKI, HARUKI	3,159,953	MAYER DE OLIVEIRA, JORGE	3,160,359	MITCHELL, MICHAEL	3,155,075
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MUCHIUTTI, CARLOS	3,160,524	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,047	NOVA CHEMICALS CORPORATION	3,159,927
MUELLER, ANDREW	3,160,101	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,049	NOVA CHEMICALS CORPORATION	3,160,500
MUELLER, MICHAEL	3,159,918	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,050	NOVACCO, LAWRENCE J.	3,159,772
MUELLER, PETER	3,155,385	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,051	NOVARTIS AG	3,160,207
MUGGE, INGO	3,155,885	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,052	NOVSYSTEM S.P.A.	3,160,481
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MULLER, THOMAS	3,160,035	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,073		
MULLIN, MARTIN CONRAD	3,154,840	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,159,787		
MUNIE, JEFFREY CHARLES	3,160,474	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,155,236		
MUON VISION INC.	3,155,367	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,159,745		
MURAUSKI, KATHLEEN, J.	3,138,182	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,160,519		
MURPHY, BLAIR RAYMUND DADSON	3,160,319	NEW-TEC INTEGRATION (XIAMEN) CO., LTD.	3,159,975		
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TRAVISH, GIL	3,159,901	VADERSTAD HOLDING AB	WALTHER, GOERAN	3,159,769
TREUHEIT, MICHAEL JOHN	3,155,125	VAKKALANKA, SWAROOP	WALTON, BRADY	3,159,685
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TRITTLER, FLORIAN	3,160,354	SATYA	WANG, BENQUAN	3,160,205
TROMER, DOTAN	3,159,757	VALENTINE, VAL	WANG, BOQING	3,155,002
TRUCK ACCESSORIES		VALIULIN, ROMAN A.	WANG, HAOMENG	3,154,849
GROUP, LLC	3,155,333	VAMADEVAN,	WANG, JIANWEI	3,144,930
TSE, ALLISON	3,159,758	VARATHARAJAN	WANG, JIAO	3,155,246
TSIARKEZOS, STEPHEN		VAN DE WATER, JUDY	WANG, JIYAO	3,159,682
HORACE	3,155,392	VAN DER LEEST, MACHIEL	WANG, KAI	3,154,890
TSUJI, HIROYUKI	3,155,445	VAN DER MEER, RONALD	WANG, LAUREN SCHULTE	3,160,489
TUOMALA, OLLI	3,155,328	JOHANNES	WANG, LEI	3,160,314
TYNAN, JOHN A.	3,159,786	VAN DOMMELEN, BJORN-	WANG, LEZI	3,155,314
UAB NANOENERGIJA	3,160,527	ERIK JOHAN WILLEM	WANG, MENG	3,155,380
UCL BUSINESS LTD	3,155,229	PIETER HENDRIK	WANG, MINGHAN	3,160,436
UCUBE LAB SA	3,154,951	VAN GEEST,	WANG, NINGLI	3,154,850
UEHLINGER, ROBERT	3,159,925	BARTHOLOMEUS	WANG, QIANG	3,155,016
UENO, NORIEDA	3,160,318	WILHELMUS DAMIANUS	WANG, SAMANTHA CHEN-	
UKAI, YOSHIKI	3,155,445	VAN RIE, JEROEN	YEE	3,160,434
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UNDERHILL, DEREK		JOHN	WANG, ZHONGMIN	3,160,071
MICHAEL	3,159,748	VANDERBILT UNIVERSITY	WANG, ZHULUN	3,160,482
UNILEVER GLOBAL IP		VANDERPOL, RYAN	WARMUTH, STEFAN	3,159,904
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UNITED STATES GYPSUM		VANEK, VACLAV	WASHINGTON UNIVERSITY	3,155,073
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WIEKER, JEFFREY CARLYLE	3,154,974	XU, CHUNXIAO	3,155,219	ZEGELIS, ALDIS	3,159,807
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REHRIG PACIFIC COMPANY	3,158,258	WHITE, NICK	3,158,648
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RHYS-JONES, DAFYDD		XU, YIN	3,158,086
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SHANGHAI NATIONAL			
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SHI, YIJUN	3,158,086		
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VICKERS, MARK ANDREW	3,158,720		
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