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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 22, 2021 contains applications open to public inspection from June 6, 2021 to June 12, 2021.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 22 juin 2021 contient les demandes disponibles au public pour consultation pour la période du 6 juin 2021 au 12 juin 2021.

Notices

16. Erratum

All information respecting patent application number 3,115, 614 referred to under the section *PCT Applications Entering the National Phase* contained in the April 26, 2021 issue of the *Canadian Patent Office Record* was erroneously published and should be disregarded.

16. Erratum

Toutes les informations relatives à la demande de brevet 3,115, 614 dans la liste *des Demandes PCT entrant en phase nationale* contenues dans le numéro du 26 avril 2021 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

17. Erratum

The information concerning the removal of the following patent agent from the register of patent agents, included in the Canadian Patent Office Record of May 4, 2021, was incorrect. The following patent agent is in good standing on the register of patent agents:

MCCANN, JENNIFER L.

17. Erratum

Les renseignements concernant la suppression de l'agent de brevets suivant du registre des agents de brevets, dans la Gazette du Bureau des brevets du 4 mai 2021, étaient inexacts. L'agent de brevets suivant est en règle dans le registre des agents de brevets :

MCCANN, JENNIFER L.

Canadian Patents Issued

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Brevets canadiens délivrés

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[11] **2,565,858**
[13] C

[51] **Int.Cl. C12Q 1/02 (2006.01) C12N 5/077 (2010.01) C12Q 1/6897 (2018.01)**

[25] EN

[54] **ASSAY FOR DRUG DISCOVERY BASED ON IN VITRO DIFFERENTIATED CELLS**

[54] **DOSAGE POUR LA DECOUVERTE DE MEDICAMENT REPOSANT SUR DES CELLULES DIFFERENCIIEES IN VITRO**

[72] BOHLEN, HERIBERT, DE

[72] TRESSAT, KRISTINA, DE

[72] EHLICH, ANDREAS, DE

[72] SCHWENGBERG, SILKE, DE

[73] EVOTEC INTERNATIONAL GMBH, DE

[85] 2006-11-06

[86] 2005-05-11 (PCT/EP2005/005087)

[87] (WO2005/108598)

[30] EP (04011214.6) 2004-05-11

[11] **2,652,681**
[13] C

[51] **Int.Cl. G01N 37/00 (2006.01)**

[25] EN

[54] **SAMPLE PAD SYSTEM FOR CONTROLLING FLUID MOVEMENT BETWEEN A SAMPLE RECEIVING PAD AND A TEST STRIP**

[54] **PORTE-ECHANTILLONS POUR REGULATION DU MOUVEMENT FLUIDE ENTRE PLAQUETTE RECEPTRICE D'ECHANTILLONS ET BANDELETTE REACTIVE**

[72] RAMEL, URS A., US

[72] TAY, DILLAN, US

[73] POLYMER TECHNOLOGY SYSTEMS, INC., US

[85] 2008-11-18

[86] 2007-06-05 (PCT/US2007/013307)

[87] (WO2007/145988)

[30] US (60/811,880) 2006-06-07

[11] **2,705,473**
[13] C

[51] **Int.Cl. B21D 39/02 (2006.01) F01N 13/18 (2010.01) B21D 51/30 (2006.01) B21D 53/88 (2006.01) F02B 75/32 (2006.01) F15B 7/02 (2006.01) F15B 13/042 (2006.01) F15B 15/00 (2006.01) F16C 3/06 (2006.01) F16H 25/14 (2006.01)**

[25] EN

[54] **MUFFLER CAP SPINNING MECHANISM**

[54] **MECANISME ROTATIF DE PARE-ETINCELLES**

[72] NEDAIE, BEHNAM, CA

[73] NEDAIE, BEHNAM, CA

[86] (2705473)

[87] (2705473)

[22] 2010-06-02

[11] **2,645,696**
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01) G16H 40/20 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SYSTEMATIZING PROVISIONING TWO BINS REPLENISHMENT SYSTEMS**

[54] **SYSTEME ET PROCEDE D'ORDONNANCEMENT DE L'APPROVISIONNEMENT DE SYSTEMES DE REAPPROVISIONNEMENT DOUBLE CASIER**

[72] PHILIPPE, RICHARD, CA

[73] LOGID INC., CA

[86] (2645696)

[87] (2645696)

[22] 2008-12-03

[11] **2,665,408**
[13] C

[51] **Int.Cl. B60P 7/04 (2006.01)**

[25] EN

[54] **CORNER TARP CONNECTOR SYSTEM**

[54] **JEU DE RACCORDS DE COINS DE BACHE**

[72] BESHIRI, ILIR, CA

[72] PETELKA, BRIAN, CA

[73] BESHIRI, ILIR, CA

[73] PETELKA INVESTMENTS LTD., CA

[86] (2665408)

[87] (2665408)

[22] 2009-04-21

**Brevets canadiens délivrés
22 juin 2021**

[11] **2,736,350**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES AND METHODS OF USING SAME FOR INCREASING PLANT YIELD, BIOMASS, GROWTH RATE, VIGOR, OIL CONTENT, ABIOTIC STRESS TOLERANCE OF PLANTS AND NITROGEN USE EFFICIENCY**

[54] **POLYNUCLEOTIDES ET POLYPEPTIDES ISOLES ET PROCEDES POUR LES UTILISER POUR AUGMENTER LE RENDEMENT, LA BIOMASSE, LA VITESSE DE CROISSANCE, LA VIGUEUR, LA TENEUR EN HUILE, LA TOLERAN CE AU STRESS ABIOTIQUE DE PLANTES ET L'EFFICACITE D'UTILISATION DE L'AZOTE**

[72] EMMANUEL, EYAL, IL
[72] GRANEVITZE, ZUR, IL
[72] DIBER, ALEX, IL
[72] VINOCUR, BASIA JUDITH, IL
[72] AYAL, SHARON, IL
[72] HERSCHKOVITZ, YOAV, IL
[73] EVOGENE LTD., IL
[85] 2011-03-07
[86] 2009-10-28 (PCT/IB2009/054774)
[87] (WO2010/049897)
[30] US (61/193,141) 2008-10-30
[30] US (61/187,683) 2009-06-17

[11] **2,741,034**
[13] C

[51] **Int.Cl. G01N 33/483 (2006.01) G16H 50/20 (2018.01)**

[25] EN

[54] **LIPOPROTEIN INSULIN RESISTANCE INDEXES AND RELATED METHODS, SYSTEMS AND COMPUTER PROGRAMS FOR GENERATING SAME**

[54] **INDICES D'INSULINORESISTANCE A BASE DE LIPOPROTEINE ET PROCEDES ASSOCIES, SYSTEMES ET PROGRAMMES INFORMATIQUES POUR GENERER CEUX-CI**

[72] OTVOS, JAMES D., US
[73] LIPOSCIENCE, INC., US
[85] 2011-04-18
[86] 2009-10-20 (PCT/US2009/005689)
[87] (WO2010/047767)
[30] US (61/106,833) 2008-10-20

[11] **2,754,121**
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) H04L 12/16 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PROVIDING ADVERTISING TO USERS OF SOCIAL NETWORK**

[54] **PROCEDE ET SYSTEME POUR LA FOURNITURE DE PUBLICITE AUX UTILISATEURS D'UN RESEAU SOCIAL**

[72] ZHANG, DONG, CN
[72] CHANG, EDWARD Y., US
[73] GOOGLE LLC, US
[85] 2011-09-01
[86] 2009-03-03 (PCT/CN2009/000223)
[87] (WO2010/099632)

[11] **2,764,361**
[13] C

[51] **Int.Cl. C02F 1/44 (2006.01) A61M 1/16 (2006.01) A61M 39/00 (2006.01) B01D 61/30 (2006.01) B01D 63/04 (2006.01) B01D 65/02 (2006.01) F16L 37/092 (2006.01) B01D 61/18 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR WATER FILTRATION USING RECYCLED MEDICAL FILTERS**

[54] **DISPOSITIF ET PROCEDE DE FILTRATION D'EAU UTILISANT DES FILTRES MEDICAUX RECYCLES**

[72] LASS, YORAM, IL
[73] Y.M. NUFILTRATION LTD., IL
[85] 2011-12-05
[86] 2010-06-07 (PCT/IL2010/000448)
[87] (WO2010/143184)
[30] US (61/184,809) 2009-06-07
[30] US (61/312,255) 2010-03-10

[11] **2,765,912**
[13] C

[51] **Int.Cl. G02B 6/46 (2006.01)**

[25] EN

[54] **HIGH-DENSITY FIBER OPTIC MODULES AND MODULE HOUSINGS AND RELATED EQUIPMENT**

[54] **MODULES ET LOGEMENTS DE MODULE EN FIBRE OPTIQUE HAUTE DENSITE ET EQUIPEMENT ASSOCIE**

[72] COOKE, TERRY L., US
[72] DAVIS, GERALD J., US
[72] DEAN, JR., DAVID L., US
[72] GONZALEZ GARCIA, MARCO A., US
[72] KLAVUHN, TORY A., US
[72] LOPEZ SANCHEZ, MANUEL A., MX
[72] RHONEY, BRIAN K., US
[72] UGOLINI, ALAN W., US
[73] CORNING OPTICAL COMMUNICATIONS LLC, US
[85] 2011-12-16
[86] 2010-06-15 (PCT/US2010/038580)
[87] (WO2010/147924)
[30] US (61/218,870) 2009-06-19
[30] US (12/771,473) 2010-04-30

**Canadian Patents Issued
June 22, 2021**

[11] **2,779,842**
[13] C

[51] **Int.Cl. A61N 7/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR
MODULATING BRAIN ACTIVITY**
[54] **DISPOSITIFS ET METHODES DE
MODULATION DE L'ACTIVITE
CEREBRALE**
[72] TYLER, WILLIAM JAMES P., US
[73] ARIZONA BOARD OF REGENTS
FOR AND ON BEHALF OF
ARIZONA STATE UNIVERSITY, US
[85] 2012-05-03
[86] 2010-11-04 (PCT/US2010/055527)
[87] (WO2011/057028)
[30] US (61/257,915) 2009-11-04

[11] **2,782,251**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) A01H
1/00 (2006.01) A01H 5/00 (2018.01)
A01H 5/10 (2018.01) C07K 14/415
(2006.01) C12N 5/10 (2006.01) C12N
15/82 (2006.01) C12N 5/04 (2006.01)**
[25] EN
[54] **TRANSGENIC PLANTS HAVING
INCREASED BIOMASS**
[54] **PLANTES TRANSGENIQUES A
BIOMASSE ACCRUE**
[72] WU, CHUAN-YIN, US
[72] KIM, HAN-SUK, US
[72] MAGPANTAY, GERARD, US
[72] ZHOU, FASONG, US
[72] SOSA, JULISSA, US
[72] NADZAN, GREG, US
[72] PENNELL, ROGER I., US
[72] ACHIRILOAIE, MIRCEA, US
[72] WANG, WUYI, US
[73] CERES, INC., US
[85] 2012-01-19
[86] 2010-07-20 (PCT/US2010/042602)
[87] (WO2011/011412)
[30] US (61/226,969) 2009-07-20

[11] **2,785,219**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) G01N
33/74 (2006.01) G01N 33/76 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND TEST
KITS FOR ANALYTE VARIATION
DETECTION**
[54] **SYSTEMES, METHODES ET
TROUSSES D'ESSAI POUR LA
DETECTION DE VARIATION DES
ANALYTES**
[72] NAZARETH, ALBERT, US
[72] STURMAN, ANDY, US
[72] ZIN, BENEDICT, US
[72] CHENG, YEA-SHUN, US
[72] BELL, HENRY, US
[72] LI, SHANG, US
[73] CHURCH & DWIGHT CO., INC., US
[86] (2785219)
[87] (2785219)
[22] 2012-08-10
[30] US (13/229,156) 2011-09-09

[11] **2,787,048**
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01)**
[25] EN
[54] **A CUT-POINT IN PTEN PROTEIN
EXPRESSION THAT
ACCURATELY IDENTIFIES
TUMORS AND IS PREDICTIVE OF
DRUG RESPONSE TO A PAN-
ERBB INHIBITOR**
[54] **POINT DE DECOUPAGE DANS
L'EXPRESSION DE LA PROTEINE
PTEN QUI IDENTIFIE AVEC
PRECISION LES TUMEURS ET
QUI PERMET DE PREDIRE LA
REPONSE MEDICAMENTEUSE A
UN INHIBITEUR DE PAN-ERBB**
[72] COUGHLIN, CHRISTINA MARIE, US
[72] BERKENBLIT, ANNA, US
[72] FEINGOLD, JAY MARSHALL, US
[72] JOHNSTON, DANIEL STEPHEN, US
[72] STRAHS, ANDREW LOUIS, US
[72] ZACHARCHUK, CHARLES
MICHAEL, US
[73] WYETH LLC, US
[85] 2012-07-10
[86] 2011-01-04 (PCT/US2011/020080)
[87] (WO2011/087926)
[30] US (61/294,615) 2010-01-13

[11] **2,793,201**
[13] C

[51] **Int.Cl. B64C 3/26 (2006.01) B64F 5/10
(2017.01) B29C 70/36 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR
FABRICATING LARGE SCALE
INTEGRATED AIRFOILS**
[54] **METHODE ET APPAREILS POUR
FABRIQUER DES PROFILS
AERODYNAMIQUES INTEGRES A
GRANDE ECHELLE**
[72] HANSEN, MARTIN W., US
[73] THE BOEING COMPANY, US
[86] (2793201)
[87] (2793201)
[22] 2012-10-24
[30] US (13/324,254) 2011-12-13

[11] **2,798,461**
[13] C

[51] **Int.Cl. E21B 36/04 (2006.01) H05B
3/56 (2006.01)**
[25] EN
[54] **HEATER CABLE FOR TUBING IN
"SHALE" TYPE HYDROCARBON
PRODUCTION WELLS EXPOSED
TO HIGH PRESSURES AND
WELLS WITH ANNULAR SPACE
FLOODED EVENTUALLY OR
PERMANENTLY OR A
COMBINATION OF BOTH**
[54] **CABLE CHAUFFANT POUR
TUBING DE PUIT DE
PRODUCTION
D'HYDROCARBURES DE
SCHISTE EXPOSES A DES
PRESSIONS ELEVEES ET PUITES
DONT L'ESPACE ANNULAIRE
EST INONDE EN DEFINITIVE OU
EN PERMANENCE OU UNE
COMBINAISON DES DEUX**
[72] INVIERNO, PABLO J., AR
[73] INVIERNO, PABLO J., AR
[86] (2798461)
[87] (2798461)
[22] 2012-11-30
[30] AR (2011 0104464) 2011-12-01

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[11] **2,800,685**
[13] C

[51] **Int.Cl. B25G 1/06 (2006.01) B25B 23/00 (2006.01) B25F 1/04 (2006.01)**

[25] EN
[54] **REVERSIBLE HAND TOOL**
[54] **OUTIL REVERSIBLE A MAIN**
[72] WILKINSON, DAVID, AU
[73] WILKINSON, DAVID, AU
[85] 2012-11-26
[86] 2011-05-26 (PCT/AU2011/000642)
[87] (WO2011/146997)
[30] AU (2010902358) 2010-05-28

[11] **2,802,525**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/02 (2006.01)**

[25] EN
[54] **CARDIOMYOCYTE MEDIUM WITH DIALYZED SERUM**
[54] **MILIEU DE CARDIOMYOCYTES AVEC DU SERUM DIALYSE**
[72] MEYER, NATHAN, US
[72] SWANSON, BRAD, US
[72] FIENE, STEVE, US
[73] FUJIFILM CELLULAR DYNAMICS, INC., US
[85] 2012-12-12
[86] 2011-06-20 (PCT/US2011/041103)
[87] (WO2011/160128)
[30] US (61/356,136) 2010-06-18
[30] US (61/356,916) 2010-06-21

[11] **2,803,031**
[13] C

[51] **Int.Cl. A61K 31/56 (2006.01) A61K 31/685 (2006.01) A61P 3/06 (2006.01) A61P 9/10 (2006.01)**

[25] EN
[54] **A RECONSTITUTED HIGH DENSITY LIPOPROTEIN FORMULATION AND PRODUCTION METHOD THEREOF**
[54] **FORMULATION DE LIPOPROTEINES DE DENSITE ELEVEE RECONSTITUEES ET SON PROCEDE DE PRODUCTION**
[72] WRIGHT, SAMUEL, US
[72] IMBODEN, MARTIN, CH
[72] BOLLI, REINHARD, CH
[72] WAELCHLI, MARCEL, CH
[73] CSL LIMITED, AU
[85] 2012-12-18
[86] 2011-06-30 (PCT/AU2011/000819)
[87] (WO2012/000048)
[30] US (61/359,925) 2010-06-30

[11] **2,803,102**
[13] C

[51] **Int.Cl. C12N 15/54 (2006.01) C12N 15/113 (2010.01) A01H 6/46 (2018.01) C12Q 1/6876 (2018.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01) C12N 9/10 (2006.01) C12N 15/63 (2006.01) C12N 15/82 (2006.01) C12P 17/00 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **METHYLTRANSFERASE NUCLEIC ACIDS AND POLYPEPTIDES**
[54] **ACIDES NUCLEIQUES ET POLYPEPTIDES DE METHYLTRANSFERASE**
[72] WINZER, THILO HANS, GB
[72] WALKER, TRACY CAROL, AU
[72] GRAHAM, IAN ALEXANDER, GB
[73] SUN PHARMACEUTICAL INDUSTRIES (AUSTRALIA) PTY LTD, AU
[85] 2012-12-18
[86] 2011-06-16 (PCT/GB2011/051121)
[87] (WO2011/161431)
[30] GB (1010471.9) 2010-06-22
[30] GB (1021720.6) 2010-12-22

[11] **2,805,067**
[13] C

[51] **Int.Cl. H04N 21/231 (2011.01) H04N 21/2183 (2011.01) H04N 21/258 (2011.01)**

[25] EN
[54] **CONTENT DISTRIBUTION NETWORK SUPPORTING POPULARITY-BASED CACHING**
[54] **RESEAU DE DISTRIBUTION DE CONTENU PRENANT EN CHARGE LA MISE EN ANTEMEMOIRE BASEE SUR LA POPULARITE**
[72] FLIAM, RICHARD, US
[72] FLANAGAN, KEVIN CHRISTOPHER, US
[72] BROOME, GREGORY ALLEN, US
[72] BURGESS, JASON, US
[72] COMMEAU, GABRIEL, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (2805067)
[87] (2805067)
[22] 2013-02-04
[30] US (61/594,017) 2012-02-02
[30] US (13/590,746) 2012-08-21

[11] **2,807,640**
[13] C

[51] **Int.Cl. C02F 1/24 (2006.01) A23L 2/70 (2006.01) C02F 1/10 (2006.01)**

[25] EN
[54] **PROCESS AND APPARATUS FOR WATER PURIFICATION BY FREEZING AND USING A FLOTATION MEDIUM**
[54] **PROCEDE ET APPAREIL DE PURIFICATION D'EAU PAR CONGELATION ET UTILISATION DU SUPPORT DE FLOTTAISON**
[72] BUCHSBAUM, NORBERT NATHAN, US
[73] BUCHSBAUM, NORBERT NATHAN, US
[85] 2013-02-06
[86] 2011-08-05 (PCT/US2011/046759)
[87] (WO2012/021402)
[30] US (61/371,731) 2010-08-08
[30] US (61/407,505) 2010-10-28
[30] US (61/444,736) 2011-02-20

[11] **2,808,929**
[13] C

[51] **Int.Cl. A61K 6/889 (2020.01) A61K 6/15 (2020.01)**

[25] EN
[54] **POLYMERIZABLE ANTIBACTERIAL/ANTIMICROBIAL RESINS AND USE IN DENTAL COMPOSITIONS**
[54] **RESINES ANTIBACTERIENNES/ANTIMICROBIENNES POLYMERISABLES ET UTILISATIONS DANS DES COMPOSITIONS DENTAIRES**
[72] JIN, XIAOMING, US
[73] DENTSPLY INTERNATIONAL INC., US
[85] 2013-02-19
[86] 2012-06-22 (PCT/US2012/043667)
[87] (WO2012/177960)
[30] US (61/499,910) 2011-06-22

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[11] **2,810,359**
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[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **4-1BB BINDING MOLECULES**

[54] **MOLECULES DE LIAISON 4-1BB**

[72] AHRENS, BIANCA, DE

[72] BAXI, SANGITA M., US

[72] BERGQVIST, SIMON PAUL, US

[72] DOYONNAS, REGIS, US

[72] DUFIELD, ROBERT LEE, US

[72] ELLIOTT, MARK WILLIAM, US

[72] FISHER, TIMOTHY SCOTT, US

[72] JEROME, RICHARD MICHAEL, US

[72] JONES, HEATHER LAURENCE, US

[72] KAMPERSCHROER, CRIS, US

[72] LADETZKI-BAEHS, KATHRIN, DE

[72] LOVE, VICTORIA ALEXANDRIA, US

[72] OLIPHANT, THEODORE LAWRENCE, US

[72] ONADIPE, ADEKUNLE OLATUNBOSUN, US

[72] QIN, WENNING, US

[72] RADHAKRISHNAN, VINAY, US

[72] ROHNER, ALLISON KARLYN, US

[72] SHARP, LESLIE LYNNE, US

[72] TESAR, MICHAEL, DE

[72] THOMAS, KRISTIN ELIZABETH, US

[72] YATES, LIBBEY ANNE, US

[72] ZIEGEMEIER, DAISY MARIE, US

[72] ZULLEY, MORITZ, DE

[73] PFIZER INC., US

[85] 2013-03-04

[86] 2011-08-26 (PCT/IB2011/053761)

[87] (WO2012/032433)

[30] US (61/381,210) 2010-09-09

[11] **2,811,122**
[13] C

[51] **Int.Cl. C12P 5/02 (2006.01) C10L 3/06 (2006.01) C02F 11/04 (2006.01) C12M 1/107 (2006.01)**

[25] EN

[54] **A PROCESS FOR THE PRODUCTION OF FUEL GAS FROM MUNICIPAL SOLID WASTE**

[54] **PROCEDE POUR LA PRODUCTION DE GAZ COMBUSTIBLE A PARTIR DE DECHETS MUNICIPAUX SOLIDES**

[72] GONELLA, CARLO, IT

[73] DB TECHNOLOGIES B.V., NL

[86] (2811122)

[87] (2811122)

[22] 2013-03-28

[30] IT (TO 2012 A 000456) 2012-05-25

[11] **2,813,637**
[13] C

[51] **Int.Cl. A61B 17/295 (2006.01) A61B 17/28 (2006.01) A61B 18/12 (2006.01)**

[25] EN

[54] **SURGICAL INSTRUMENT WITH STAMPED DOUBLE-FLAG JAWS**

[54] **INSTRUMENT CHIRURGICAL A MACHOIRES A DOUBLE BRIDE ESTAMPEES**

[72] ALLEN, JAMES D., US

[72] TWOMEY, JOHN R., US

[72] LYONS, MICHAEL, US

[72] OLSON, JESSEICA E. C., US

[72] O'NEILL, SEAN T., US

[72] SIMS, GRANT T., US

[73] COVIDIEN LP, US

[86] (2813637)

[87] (2813637)

[22] 2013-04-23

[30] US (13/461,335) 2012-05-01

[11] **2,818,677**
[13] C

[51] **Int.Cl. A61B 5/145 (2006.01) G16H 20/10 (2018.01) G16H 40/63 (2018.01) A61B 5/00 (2006.01)**

[25] EN

[54] **GLYCEMIC HEALTH METRIC DETERMINATION AND APPLICATION**

[54] **DETERMINATION D'UNE GRANDEUR DE SANTE GLYCEMIQUE ET APPLICATION**

[72] DESBOROUGH, LANE, US

[72] PALERM, CESAR C., US

[73] MEDTRONIC MINIMED, INC., US

[85] 2013-05-21

[86] 2011-12-16 (PCT/US2011/065402)

[87] (WO2012/091959)

[30] US (61/428,066) 2010-12-29

[30] US (13/326,890) 2011-12-15

[11] **2,818,715**
[13] C

[51] **Int.Cl. G01V 1/22 (2006.01) G01V 1/18 (2006.01)**

[25] EN

[54] **DIGITAL SEISMIC SENSOR AND ACQUISITION DEVICE ADAPTED TO BE CONNECTED TOGETHER VIA A TWO-CONDUCTOR LINE**

[54] **CAPTEUR SISMIQUE NUMERIQUE ET DISPOSITIF D'ACQUISITION ADAPTE EN VUE D'ETRE CONNEXTE ENSEMBLE PAR LE BIAIS D'UNE LIGNE A DEUX CONDUCTEURS**

[72] PENNEC, DANIEL, FR

[72] LAINE, JEROME, FR

[72] HAMON, JACQUES, FR

[73] SERCEL, FR

[86] (2818715)

[87] (2818715)

[22] 2013-06-06

[30] EP (12172569.1) 2012-06-19

[11] **2,819,520**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) C12N 5/078 (2010.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61L 27/38 (2006.01) A61P 37/06 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **ANTI CD4 ANTIBODIES TO PREVENT IN PARTICULAR GRAFT-VERSUS-HOST-DISEASE (GVHD)**

[54] **ANTICORPS ANTI CD4 SERVANT A PREVENIR EN PARTICULIER LE REJET DE GREFFON CONTRE HOTE**

[72] FRICKE, STEPHAN, DE

[72] EMMRICH, FRANK, DE

[72] HILGER, NADJA, DE

[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2013-05-31

[86] 2011-12-02 (PCT/EP2011/006060)

[87] (WO2012/072268)

[30] EP (10015236.2) 2010-12-02

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[11] **2,820,466**
[13] C

[51] **Int.Cl. A61B 17/072 (2006.01)**
[25] EN
[54] **SURGICAL APPARATUS INCLUDING SURGICAL BUTTRESS**
[54] **APPAREIL CHIRURGICAL COMPORTANT UNE PIECE D'APPUI CHIRURGICALE**
[72] HODGKINSON, GERALD, US
[72] EBNER, TIMOTHY D., US
[72] HATHAWAY, PETER, US
[73] COVIDIEN LP, US
[86] (2820466)
[87] (2820466)
[22] 2013-06-26
[30] US (61/672,888) 2012-07-18
[30] US (13/924,804) 2013-06-24

[11] **2,827,107**
[13] C

[51] **Int.Cl. B01J 21/04 (2006.01) B01J 21/06 (2006.01) B01J 23/10 (2006.01)**
[25] EN
[54] **POROUS INORGANIC COMPOSITE OXIDE**
[54] **OXYDE COMPOSITE INORGANIQUE POREUX**
[72] LARCHER, OLIVIER, US
[72] FRANCIS, FRANCIS, US
[72] ENGLISH, THOMAS, US
[72] INFRAH, SIMON, FR
[72] POLLI, ANDREW, US
[73] RHODIA OPERATIONS, FR
[85] 2013-08-09
[86] 2011-11-16 (PCT/US2011/001918)
[87] (WO2012/067654)
[30] US (61/458,035) 2010-11-16

[11] **2,828,008**
[13] C

[51] **Int.Cl. E02F 3/14 (2006.01) E21C 27/30 (2006.01)**
[25] EN
[54] **ROPE SHOVEL**
[54] **PELLE EXCAVATRICE SUSPENDUE**
[72] HREN, WILLIAM J., US
[72] HUTSICK, JAMES M., US
[72] SEVERSON, PATRICK M., US
[72] HAWORTH, SAMUEL F., US
[72] KNUTH, JASON, US
[73] JOY GLOBAL SURFACE MINING INC, US
[86] (2828008)
[87] (2828008)
[22] 2013-09-20
[30] US (61/704,078) 2012-09-21
[30] US (61/777,697) 2013-03-12

[11] **2,823,895**
[13] C

[51] **Int.Cl. G07C 1/00 (2006.01) H04W 8/24 (2009.01) G06Q 30/02 (2012.01) H04W 4/029 (2018.01) G01S 5/14 (2006.01) G01S 11/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR WIRELESS DEVICE DETECTION, RECOGNITION AND VISIT PROFILING**
[54] **SYSTEME ET PROCEDE POUR DETECTION D'APPAREIL SANS FIL, RECONNAISSANCE ET PROFIL DE VISITE**
[72] CAMPS, TOM, CA
[72] KANUKA, BENNETT, CA
[72] BURCHETT, CHRIS, CA
[72] GAGNE, BRAD, CA
[72] MADGE, ROB, CA
[72] SCOBIE, RAY, CA
[72] CAMPBELL, DON, CA
[73] DATAVALET TECHNOLOGIES, CA
[86] (2823895)
[87] (2823895)
[22] 2013-08-16
[30] US (13/666,784) 2012-11-01

[11] **2,827,781**
[13] C

[51] **Int.Cl. C02F 9/06 (2006.01) C02F 1/00 (2006.01) C02F 1/42 (2006.01) C02F 1/44 (2006.01) C02F 1/461 (2006.01) C02F 1/76 (2006.01) G01N 33/18 (2006.01)**
[25] EN
[54] **CHLORINE MEASUREMENT/FILTER TESTING/ BRINE CONTAINER MONITORING OF A WATER TREATMENT SYSTEM**
[54] **MESURE DU CHLORE/VERIFICATION DU FILTRE/SURVEILLANCE DE LA TENEUR EN SAUMURE DU CONTENANT D'UN SYSTEME DE TRAITEMENT DE L'EAU**
[72] VOLKER, MANFRED, DE
[73] VIVONIC GMBH, DE
[86] (2827781)
[87] (2827781)
[22] 2013-09-20
[30] DE (10 2013 011 752.6) 2013-07-13

[11] **2,832,260**
[13] C

[51] **Int.Cl. A61K 38/21 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING IFNALPHA RELATED CONDITIONS**
[54] **METHODE DE TRAITEMENT D'ETATS LIES A L'IFNALPHA**
[72] GROUARD-VOGEL, GERALDINE, FR
[72] DHELLIN, OLIVIER, FR
[72] FANGET, BERNARD, FR
[72] VANDEPAPELIERE, PIERRE, BE
[72] ROUCAIROL, CAMILLE, FR
[73] NEOVACS, FR
[85] 2013-10-03
[86] 2012-04-04 (PCT/EP2012/056238)
[87] (WO2012/136739)
[30] EP (11305408.4) 2011-04-07
[30] US (61/472,854) 2011-04-07
[30] EP (11188125.6) 2011-11-07

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[11] **2,833,418**
[13] C

[51] **Int.Cl. E06B 9/262 (2006.01) E06B 9/42 (2006.01)**
[25] EN
[54] **COVERING FOR ARCHITECTURAL OPENINGS WITH COORDINATED VANE SETS**
[54] **RECOUVREMENT POUR OUVERTURES ARCHITECTURALES AVEC ENSEMBLES D'AUBES MODULAIRES COORDONNES**
[72] COLSON, WENDELL B., US
[72] SWISZCZ, PAUL G., US
[73] HUNTER DOUGLAS INC., US
[86] (2833418)
[87] (2833418)
[22] 2013-11-15
[30] US (61/727,838) 2012-11-19
[30] US (13/830,241) 2013-03-14

[11] **2,833,469**
[13] C

[51] **Int.Cl. B29C 70/48 (2006.01)**
[25] FR
[54] **PROCESS FOR INJECTION MOULDING A COMPOSITE PART**
[54] **PROCEDE DE MOULAGE PAR INJECTION D'UNE PIECE EN MATERIAU COMPOSITE**
[72] GODON, THIERRY, FR
[72] DAMBRINE, BRUNO JACQUES GERARD, FR
[72] RUIZ, EDUARDO, FR
[72] TROCHU, FRANCOIS, FR
[73] SNECMA, FR
[85] 2013-10-17
[86] 2012-05-02 (PCT/FR2012/050973)
[87] (WO2012/153035)
[30] FR (1153929) 2011-05-06

[11] **2,833,717**
[13] C

[51] **Int.Cl. B65D 33/00 (2006.01) B25J 1/00 (2006.01) B67B 7/00 (2006.01) E02D 27/42 (2006.01) E02D 31/00 (2006.01) E04H 12/00 (2006.01)**
[25] EN
[54] **REMOTELY OPENABLE CONTAINMENT SYSTEM AND INSTALLATION METHOD**
[54] **SYSTEME DE CONFINEMENT OUVRABLE A DISTANCE ET PROCEDE D'INSTALLATION**
[72] ORLOWSKI, PAUL A., US
[73] HUBBELL POWER SYSTEMS, INC., US
[86] (2833717)
[87] (2833717)
[22] 2013-11-20
[30] US (61/749,590) 2013-01-07
[30] US (14/032,813) 2013-09-20

[11] **2,833,756**
[13] C

[51] **Int.Cl. C12N 1/14 (2006.01) C07K 14/37 (2006.01) C12N 15/80 (2006.01)**
[25] EN
[54] **FILAMENTOUS FUNGI HAVING AN ALTERED VISCOSITY PHENOTYPE**
[54] **CHAMPIGNONS FILAMENTEUX AYANT UN PHENOTYPE DE VISCOSITE MODIFIEE**
[72] BODIE, ELIZABETH A., US
[72] PRATT, ROBERT JAMES, II, US
[73] DANISCO US INC., US
[85] 2013-10-18
[86] 2012-04-20 (PCT/US2012/034405)
[87] (WO2012/145596)
[30] US (61/478,162) 2011-04-22
[30] US (61/478,160) 2011-04-22
[30] US (61/480,602) 2011-04-29
[30] US (61/480,629) 2011-04-29
[30] US (61/480,610) 2011-04-29

[11] **2,835,676**
[13] C

[51] **Int.Cl. A61N 1/40 (2006.01) A61N 1/32 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR HEATING A TREATMENT REGION WITH AN ALTERNATING ELECTRIC FIELD**
[54] **APPAREIL ET PROCEDE DE CHAUFFAGE D'UNE REGION DE TRAITEMENT AVEC UN CHAMP ELECTRIQUE ALTERNATIF**
[72] MARC, MICHEL, US
[73] INNOVOLINK, LLC, US
[85] 2013-11-08
[86] 2012-05-08 (PCT/US2012/036934)
[87] (WO2012/154736)
[30] US (13/103,692) 2011-05-09
[30] US (13/103,739) 2011-05-09
[30] US (13/103,638) 2011-05-09
[30] US (13/103,715) 2011-05-09
[30] US (13/103,668) 2011-05-09

[11] **2,836,164**
[13] C

[51] **Int.Cl. A61B 5/08 (2006.01) A61B 5/083 (2006.01)**
[25] EN
[54] **APNEA AND HYPOPNEA DETECTION USING BREATH PATTERN RECOGNITION**
[54] **DETECTION D'APNEE ET D'HYPOPNEE A L'AIDE D'UNE RECONNAISSANCE DU MOTIF DE RESPIRATION**
[72] ALSHAER, HISHAM, CA
[72] FERNIE, GEOFFREY ROY, CA
[72] BRADLEY, T. DOUGLAS, CA
[73] UNIVERSITY HEALTH NETWORK, CA
[85] 2013-11-14
[86] 2012-05-17 (PCT/CA2012/000478)
[87] (WO2012/155251)
[30] US (61/486,855) 2011-05-17
[30] CA (PCT/CA2011/000555) 2011-05-17

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[11] **2,837,479**
[13] C

[51] **Int.Cl. A61K 35/741 (2015.01) A61K 35/745 (2015.01) A61K 35/747 (2015.01) A61K 36/064 (2006.01) A61P 1/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS CONTAINING PEDIOCOCCUS AND METHODS FOR REDUCING THE SYMPTOMS OF GASTROENTEROLOGICAL SYNDROMES**

[54] **COMPOSITIONS PHARMACEUTIQUES CONTENANT PEDIOCOCCUS ET PROCEDES POUR REDUIRE LES SYMPTOMES DE SYNDROMES GASTRO-ENTEROLOGIQUES**

[72] OLMSTEAD, STEPHEN F., US

[73] PROTHERA, INC., US

[85] 2013-11-26

[86] 2012-06-08 (PCT/US2012/041697)

[87] (WO2012/170915)

[30] US (13/067,582) 2011-06-10

[11] **2,840,207**
[13] C

[51] **Int.Cl. G01N 24/08 (2006.01)**

[25] EN

[54] **QUANTITATIVE NMR CLINICAL ANALYZERS WITH AUTOMATIC NMR TEMPERATURE SENSITIVITY COMPENSATION THAT ACCOMMODATE LARGE AMBIENT OPERATIONAL TEMPERATURE RANGES**

[54] **ANALYSEURS CLINIQUES QUANTITATIFS A RMN AVEC COMPENSATION AUTOMATIQUE DE LA SENSIBILITE DE LA RMN A LA TEMPERATURE, S'ADAPTANT A DES PLAGES ETENDUES DE TEMPERATURE AMBIANTE DE FON CTIONNEMENT**

[72] MORGAN, DAVID R., US

[72] JEYARAJAH, ELIAS J., US

[73] LIPOSCIENCE, INC., US

[85] 2013-12-20

[86] 2012-06-27 (PCT/US2012/044392)

[87] (WO2013/003454)

[30] US (61/502,965) 2011-06-30

[11] **2,842,760**
[13] C

[51] **Int.Cl. C08J 9/20 (2006.01) C08F 2/44 (2006.01) C08J 3/18 (2006.01) C08J 9/14 (2006.01) C08K 5/01 (2006.01) C08L 25/06 (2006.01)**

[25] EN

[54] **EXPANDED POLYSTYRENE MADE USING D-LIMONENE AS A PLASTICIZER**

[54] **POLYSTYRENE EXPANSE FAIT DE D-LIMONENE COMME AGENT PLASTIFIANT**

[72] GIBEAULT, JEAN-PIERRE, CA

[73] NEXKEMIA PETROCHIMIE, INC., CA

[86] (2842760)

[87] (2842760)

[22] 2014-02-13

[30] US (61/765387) 2013-02-15

[11] **2,844,856**
[13] C

[51] **Int.Cl. G06K 9/62 (2006.01) G06K 40/08 (2012.01) G06K 9/80 (2006.01)**

[25] EN

[54] **AUTOMATIC BUILDING ASSESSMENT**

[54] **EVALUATION D'IMMEUBLE AUTOMATIQUE**

[72] CHRISTOPULOS, NICHOLAS U., US

[72] TOFTE, NATHAN L., US

[72] FREEMAN, JAMES M., US

[72] MAURER, JONATHAN D., US

[72] SCHMIDGALL, ROGER D., US

[73] STATE FARM MUTUAL AUTOMOBILE INSURANCE COMPANY, US

[86] (2844856)

[87] (2844856)

[22] 2014-03-05

[30] US (13/839,634) 2013-03-15

[11] **2,844,898**
[13] C

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 39/00 (2006.01) A61K 39/002 (2006.01) A61K 39/02 (2006.01) A61K 39/12 (2006.01) A61K 39/205 (2006.01)**

[25] EN

[54] **USE OF THE PACAP AS A MOLECULAR ADJUVANT FOR VACCINES**

[54] **UTILISATION DE PACAP EN TANT QU'ADJUVANT MOLECULAIRE POUR DES VACCINS**

[72] LUGO GONZALEZ, JUANA MARIA, CU

[72] CARPIO GONZALEZ, YAMILA, CU

[72] ESTRADA GARCIA, MARIO PABLO, CU

[73] CENTRO DE INGENIERIA GENETICA Y BIOTECNOLOGIA, CU

[85] 2014-02-11

[86] 2012-08-24 (PCT/CU2012/000004)

[87] (WO2013/029570)

[30] CU (2011-0167) 2011-08-26

[11] **2,844,977**
[13] C

[51] **Int.Cl. F16L 37/084 (2006.01) B67D 7/42 (2010.01) F16L 37/096 (2006.01) F16L 37/22 (2006.01) F16L 37/42 (2006.01)**

[25] FR

[54] **FEMALE ELEMENT AND CONNECTION DESIGNED TO PRODUCE A REMOVABLE JOINT BETWEEN TWO FLUID PIPES**

[54] **ELEMENT FEMELLE ET RACCORD DESTINES A REALISER LA JONCTION AMOVIBLE DE DEUX CANALISATIONS DE FLUIDE**

[72] TIBERGHEN, ALAIN-CHRISTOPHE, FR

[72] PASTORE, OLIVIER, FR

[73] STAUBLI FAVERGES, FR

[86] (2844977)

[87] (2844977)

[22] 2014-03-05

[30] FR (13 52 287) 2013-03-14

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[11] **2,845,783**
[13] C

[51] **Int.Cl. A61B 18/12 (2006.01) H03H 7/01 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR NARROWBAND REAL IMPEDANCE CONTROL IN ELECTROSURGERY**
[54] **SYSTEMES ET PROCEDES POUR COMMANDE D'IMPEDANCE REELLE A BANDE ETROITE EN ELECTROCHIRURGIE**
[72] GILBERT, JAMES A., US
[73] COVIDIEN LP, US
[86] (2845783)
[87] (2845783)
[22] 2014-03-12
[30] US (61/794,191) 2013-03-15
[30] US (14/100,113) 2013-12-09

[11] **2,845,967**
[13] C

[51] **Int.Cl. A61B 5/05 (2021.01) A61B 5/0538 (2021.01) A61B 18/18 (2006.01) A61M 25/00 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **DETECTION AND CLEARING OF OCCLUSIONS IN CATHETERS**
[54] **DETECTION ET ELIMINATION D'OCCLUSIONS DANS DES CATHETERS**
[72] LUDIN, LEV, US
[72] DEFUSCO, MICHAEL, US
[73] INTEGRA LIFESCIENCES SWITZERLAND SARL, CH
[86] (2845967)
[87] (2845967)
[22] 2014-03-13
[30] US (13/828,084) 2013-03-14

[11] **2,845,980**
[13] C

[51] **Int.Cl. C04B 41/50 (2006.01) A62D 3/37 (2007.01) A62D 3/38 (2007.01) B01J 21/06 (2006.01) B01J 37/34 (2006.01)**
[25] EN
[54] **EMBEDDING PHOTOCATALYTIC TITANIUM DIOXIDE IN ASPHALT SURFACES TO REDUCE POLLUTANTS VIA PHOTOCATALYTIC REACTIONS**
[54] **INTRODUCTION DE DIOXYDE DE TITANE PHOTOCATALYTIQUE DANS DES REVETEMENTS D'ASPHALTE POUR REDUIRE LES POLLUANTS PAR LE BIAIS DE REACTIONS PHOTOCATALYTIQUES**
[72] DURANTE, COLIN, US
[72] DAWSON, DELBERT L., US
[73] D&D EMULSIONS, INC., US
[86] (2845980)
[87] (2845980)
[22] 2014-03-13
[30] US (61/780,365) 2013-03-13

[11] **2,846,108**
[13] C

[51] **Int.Cl. G07F 17/32 (2006.01)**
[25] EN
[54] **HYBRID GAMING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDURE DE JEU HYBRIDE**
[72] MERATI, BRUCE, US
[73] MERATI, BRUCE, US
[85] 2014-02-20
[86] 2012-03-16 (PCT/US2012/029509)
[87] (WO2013/048560)
[30] US (13/245,682) 2011-09-26

[11] **2,846,287**
[13] C

[51] **Int.Cl. C07K 17/02 (2006.01) A61K 38/55 (2006.01) A61P 35/00 (2006.01) C07K 7/06 (2006.01) C12N 9/64 (2006.01)**
[25] EN
[54] **STABLE PEPTIDE-BASED PACE4 INHIBITORS**
[54] **INHIBITEURS DE PACE4 STABLES A BASE DE PEPTIDE**
[72] DAY, ROBERT, CA
[72] DORY, YVES, CA
[72] NEUGEBAUER, WITOLD A., CA
[73] SOCPRA-SCIENCES SANTE ET HUMAINES S.E.C., CA
[85] 2014-02-24
[86] 2012-08-30 (PCT/CA2012/050601)
[87] (WO2013/029180)
[30] US (61/530,478) 2011-09-02

[11] **2,847,931**
[13] C

[51] **Int.Cl. G03B 17/02 (2021.01) G03B 17/08 (2021.01) G08B 13/196 (2006.01)**
[25] EN
[54] **SECURITY CAMERA WITH ADJUSTABLE LENS AIMING MECHANISM**
[54] **CAMERA DE SECURITE DOTEES D'UN MECANISME DE VISEE A OBJECTIF REGLABLE**
[72] MOHAN, SUDEEP, CA
[73] AVIGILON CORPORATION, CA
[86] (2847931)
[87] (2847931)
[22] 2014-03-31

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[11] **2,848,003**
[13] C

[51] **Int.Cl. F16C 33/08 (2006.01) A01G 23/083 (2006.01) F16C 17/12 (2006.01) F16C 43/02 (2006.01)**

[25] EN

[54] **A BEARING ARRANGEMENT IN AN ACTUATOR OF A FOREST MACHINE**

[54] **SYSTEME DE PALIERS DANS UN ACTIONNEUR D'UNE MACHINE D'EXPLOITATION FORESTIERE**

[72] JAASKELAINEN, ESA, FI
[72] KESKINEN, JUHO, FI
[72] HANNE, KARI, FI
[72] JORMANAINEN, TONI, FI
[72] NEVALAINEN, JUHA, FI
[72] HIRVONEN, ANTTI, FI
[73] WARATAH OM OY, FI
[86] (2848003)
[87] (2848003)
[22] 2014-04-03
[30] FI (20135375) 2013-04-17

[11] **2,848,241**
[13] C

[51] **Int.Cl. D21H 21/10 (2006.01) D21H 21/52 (2006.01) D21H 17/17 (2006.01) D21H 17/25 (2006.01) D21H 17/28 (2006.01) D21H 17/29 (2006.01) D21H 21/18 (2006.01)**

[25] EN

[54] **A METHOD OF CONTROLLING RETENTION AND AN INTERMEDIATE PRODUCT USED IN THE METHOD**

[54] **PROCEDE DE REGLAGE DE LA RETENTION ET PRODUIT INTERMEDIAIRE UTILISE DANS LE PROCEDE**

[72] HEISKANEN, ISTO, FI
[72] LAITINEN, RISTO, FI
[72] RASANEN, JARI, FI
[73] STORA ENSO OYJ, FI
[85] 2014-03-10
[86] 2012-09-12 (PCT/FI2012/050883)
[87] (WO2013/038061)
[30] FI (20115893) 2011-09-12

[11] **2,850,436**
[13] C

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/113 (2006.01) A61F 5/56 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01) A61N 1/375 (2006.01) A61N 1/378 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR CONTROLLING ENERGY DELIVERY AS A FUNCTION OF DEGREE OF COUPLING**

[54] **APPAREIL ET PROCEDE DE COMMANDE D'UN APPORT D'ENERGIE EN FONCTION D'UN DEGRE DE COUPLAGE**

[72] MASHIACH, ADI, BE
[72] SCHOLZ, OLIVER, DE
[73] NYXOAH SA, BE
[85] 2014-03-28
[86] 2012-09-28 (PCT/IB2012/002380)
[87] (WO2013/046040)
[30] US (61/541,651) 2011-09-30
[30] US (61/657,424) 2012-06-08

[11] **2,850,912**
[13] C

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

[25] EN

[54] **FETAL CHROMOSOMAL ANEUPLOIDY DIAGNOSIS**

[54] **DIAGNOSTIC D'UNE ANEUPLOIDIE CHROMOSOMIQUE FOETALE**

[72] DEL-FAVERO, JURGEN, BE
[72] GOOSSENS, DIRK, BE
[72] HEYRMAN, LIEN, BE
[73] AGILENT TECHNOLOGIES, INC., US
[85] 2014-04-02
[86] 2012-10-18 (PCT/IB2012/002091)
[87] (WO2013/057568)
[30] US (61/548,632) 2011-10-18

[11] **2,851,038**
[13] C

[51] **Int.Cl. A47B 96/00 (2006.01) A47B 81/00 (2006.01) B65D 90/24 (2006.01) B65G 45/26 (2006.01)**

[25] EN

[54] **BATTERY SPILL CONTAINMENT SYSTEM AND METHOD OF MAKING THE SAME**

[54] **SYSTEME DE CONFINEMENT DE DEVERSEMENT DE BATTERIE ET PROCEDE DE FABRICATION DE CELUI-CI**

[72] FRAZIER, DOUGLAS, US
[73] ENVIRONMENTAL COMPLIANCE SOLUTIONS, LLC, US
[86] (2851038)
[87] (2851038)
[22] 2014-05-02
[30] US (61/818913) 2013-05-02
[30] US (61/918468) 2013-12-19

[11] **2,851,351**
[13] C

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 3/0481 (2013.01) G06F 3/0484 (2013.01)**

[25] EN

[54] **A METHOD AND A DEVICE FOR DATA ANALYSIS**

[54] **PROCEDE ET DISPOSITIF POUR L'ANALYSE DE DONNEES**

[72] WOLGE, HAKAN, SE
[72] LINSEFORS, TOBIAS, SE
[73] QLIKTECH INTERNATIONAL AB, SE
[85] 2014-04-07
[86] 2012-07-27 (PCT/SE2012/050853)
[87] (WO2013/070140)
[30] US (61/558,799) 2011-11-11

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[11] **2,851,390**
[13] C

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 25/04 (2006.01) A01P 3/00 (2006.01) A01P 7/04 (2006.01)**

[25] FR

[54] **COMPOSITION, METHOD FOR PRODUCING THE COMPOSITION, AND PHYTOSANITARY FORMULATION CONTAINING SAME**

[54] **COMPOSITION, PROCEDE D'OBTENTION DE LA COMPOSITION ET FORMULATION PHYTOSANITAIRE LA COMPRENANT**

[72] VIDAL, THIERRY, FR
[72] ABRIBAT, BENOIT, FR
[72] BRAMATI, VALERIO, IT
[72] BALASTRE, MARC, FR
[73] RHODIA OPERATIONS, FR
[85] 2014-04-08
[86] 2012-10-11 (PCT/EP2012/070172)
[87] (WO2013/053834)
[30] FR (1159258) 2011-10-13

[11] **2,852,038**
[13] C

[51] **Int.Cl. A01H 5/10 (2018.01) A01H 6/46 (2018.01) A01C 1/00 (2006.01) A01G 7/00 (2006.01) A01H 3/04 (2006.01)**

[25] EN

[54] **METHODS FOR IMPROVING SEED PRODUCTION IN MAIZE**

[54] **PROCEDES D'AMELIORATION DE PRODUCTION DE GRAINES DANS DU MAIS**

[72] MIHURA, EDUARDO, US
[72] NELSON, SCOTT, US
[72] SAAB, IMAD, US
[72] SAYERS, ADDA, US
[72] SCHWARTE, AARON, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2014-04-11
[86] 2012-10-11 (PCT/US2012/059747)
[87] (WO2013/055916)
[30] US (61/547,142) 2011-10-14

[11] **2,855,254**
[13] C

[51] **Int.Cl. A01D 75/00 (2006.01)**

[25] EN

[54] **ARTICULATED HARVESTING HEAD GROUND FORCE CONTROL CIRCUIT**

[54] **CIRCUIT DE COMMANDE DE FORCE AU SOL POUR CUEILLEUR DE RECOLTE**

[72] RITTER, AARON S., US
[72] COERS, BRUCE A., US
[72] LOVETT, BENJAMIN M., US
[73] DEERE & COMPANY, US
[86] (2855254)
[87] (2855254)
[22] 2014-06-30
[30] US (13/940,311) 2013-07-12

[11] **2,855,375**
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **METHOD FOR DETECTING NUCLEOSOME ADDUCTS**

[54] **PROCEDE DE DETECTION DE PRODUITS D'ADDITION A BASE DE NUCLEOSOMES**

[72] MICALLEF, JACOB VINCENT, GB
[72] ECCLESTON, MARK EDWARD, GB
[72] HERZOG, MARIELLE, GB
[73] BELGIAN VOLITION SPRL, BE
[85] 2014-05-09
[86] 2012-12-07 (PCT/GB2012/053057)
[87] (WO2013/084002)
[30] GB (1121040.8) 2011-12-07
[30] US (61/568,090) 2011-12-07
[30] GB (1121230.5) 2011-12-12

[11] **2,855,475**
[13] C

[51] **Int.Cl. C11D 3/02 (2006.01) B08B 3/08 (2006.01) C11D 1/75 (2006.01) C11D 3/60 (2006.01)**

[25] EN

[54] **MODERATELY ALKALINE CLEANING COMPOSITIONS FOR PROTEINACEOUS AND FATTY SOIL REMOVAL AT LOW TEMPERATURES**

[54] **COMPOSITIONS NETTOYANTES MODEREMENT ALCALINES POUR ELIMINATION DE SALISSURES PROTEIQUES ET GRAISSEUSES A BASSES TEMPERATURES**

[72] SUN, XIN, US
[72] GANDARA, JACQUILYNE, US
[72] RYTHER, ROBERT J., US
[72] MOHS, THOMAS R., US
[72] CUMMINGS, WALTER D., US
[73] ECOLAB USA INC., US
[85] 2014-05-12
[86] 2012-10-11 (PCT/US2012/059665)
[87] (WO2013/055863)
[30] US (13/271,861) 2011-10-12

[11] **2,856,255**
[13] C

[51] **Int.Cl. C07K 14/435 (2006.01)**

[25] EN

[54] **RECOMBINANT PROTEINS AND THEIR THERAPEUTIC USES**

[54] **PROTEINES RECOMBINANTES ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] D'HONDT, ERIK, BE
[72] CHARLTON, KEITH ALAN, GB
[73] D'HONDT, ERIK, BE
[73] CHARLTON, KEITH ALAN, GB
[73] IN3BIO LTD., BM
[85] 2014-05-16
[86] 2012-11-21 (PCT/IB2012/002876)
[87] (WO2013/076580)
[30] US (61/563,128) 2011-11-23
[30] US (61/654,401) 2012-06-01

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[11] **2,856,551**
[13] C

[51] **Int.Cl. C07D 487/18 (2006.01)**
[25] EN
[54] **STEREOSELECTIVE TOTAL SYNTHESIS OF NORIBOGAINE**
[54] **SYNTHESE STEREOSELECTIVE TOTALE DE LA NORIBOGAINE**
[72] MORIARTY, ROBERT M., US
[72] MASH, DEBORAH C., US
[73] DEMERX, INC., US
[85] 2014-05-21
[86] 2012-12-03 (PCT/US2012/067629)
[87] (WO2013/085850)
[30] US (61/568,568) 2011-12-08

[11] **2,857,860**
[13] C

[51] **Int.Cl. G06Q 50/10 (2012.01) G06T 1/00 (2006.01) H04N 5/30 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR INTEGRATED IMAGE CAPTURE FOR VEHICLES TO TRACK DAMAGE**
[54] **PROCEDE ET DISPOSITIF DE CAPTURE D'IMAGE INTEGREE POUR VEHICULES VISANT A ASSURER LE SUIVI DES DOMMAGES**
[72] ALTERMATT, JOHN, US
[72] BORUFF, KELLI, US
[72] CRAWFORD, MATTHEW, US
[72] MATRONI, ROBERT, US
[73] THE CRAWFORD GROUP, INC., US
[86] (2857860)
[87] (2857860)
[22] 2014-07-25
[30] US (61/858,315) 2013-07-25
[30] US (14/340,217) 2014-07-24

[11] **2,861,051**
[13] C

[51] **Int.Cl. A61K 39/015 (2006.01) C07K 14/445 (2006.01)**
[25] EN
[54] **TARGETING OF CHONDROITIN SULFATE GLYCANS**
[54] **CIBLAGE DE GLYCANES DE SULFATE DE CHONDROITINE**
[72] SALANTI, ALI, DK
[72] THEANDER, THOR GRUNDTVIG, DK
[72] DAUGAARD, MADS, CA
[72] NIELSEN, MORTEN, DK
[72] DAHLBACK, MADELEINE, SE
[72] CLAUSEN, THOMAS MANDEL, DK
[73] VAR2 PHARMACEUTICALS APS, DK
[85] 2014-07-11
[86] 2013-02-08 (PCT/EP2013/052557)
[87] (WO2013/117705)
[30] US (61/596,931) 2012-02-09

[11] **2,863,130**
[13] C

[51] **Int.Cl. H05K 3/10 (2006.01) H05K 3/12 (2006.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT FOR PRODUCING AN ELECTRICALLY CONDUCTIVE PATTERN ON A SURFACE**
[54] **PROCEDE ET AGENCEMENT DE PRODUCTION D'UN TRACE CONDUCTEUR SUR UNE SURFACE**
[72] SIRVIO, PETRI, FI
[72] MAIJALA, JUHA, FI
[73] STORA ENSO OYJ, FI
[85] 2014-07-29
[86] 2013-01-30 (PCT/FI2013/050099)
[87] (WO2013/113995)
[30] FI (20125087) 2012-01-30

[11] **2,863,411**
[13] C

[51] **Int.Cl. A01H 5/12 (2018.01) C12N 15/01 (2006.01)**
[25] EN
[54] **TOBACCO HAVING ALTERED AMOUNTS OF ENVIRONMENTAL CONTAMINANTS AND METHODS FOR PRODUCING SUCH LINES**
[54] **TABAC DOTE DE QUANTITES MODIFIEES DE CONTAMINANTS ENVIRONNEMENTAUX ET PROCEDES DE PRODUCTION DE TELLES GAMMES**
[72] ELLIOTT, PATSY ELIZABETH, US
[72] LAWSON, DARLENE MADELINE, US
[73] REYNOLDS TECHNOLOGIES, INC., US
[85] 2014-07-30
[86] 2013-02-05 (PCT/US2013/024730)
[87] (WO2013/119541)
[30] US (13/368,797) 2012-02-08
[30] US (61/619,588) 2012-04-03

[11] **2,863,970**
[13] C

[51] **Int.Cl. A01D 41/00 (2006.01) B07B 1/46 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT HYBRID MATERIAL RECIPROCATING SIEVE**
[54] **TAMIS A MOUVEMENT DE VA-ET-VIENT EN MATERIAU HYBRIDE LEGER**
[72] PEARSON, MARK L., US
[72] ADAMSON, JAMES K., US
[72] WALTER, JEFFREY R., US
[73] DEERE & COMPANY, US
[86] (2863970)
[87] (2863970)
[22] 2014-09-17
[30] US (14/032,832) 2013-09-20

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[11] **2,864,007**
[13] C

[51] **Int.Cl. G06Q 10/04 (2012.01)**
[25] EN
[54] **TRAVELER HURRY STATUS MONITOR**
[54] **MONITEUR D'ETAT DE PRECIPITATION D'UN VOYAGEUR**
[72] TUMAYAN, CLAUDIE, FR
[72] PARISOT, LOUIS, FR
[73] AMADEUS S.A.S., FR
[85] 2014-08-07
[86] 2013-04-05 (PCT/EP2013/001021)
[87] (WO2013/149735)
[30] US (13/440,413) 2012-04-05
[30] EP (12368007.6) 2012-04-05

[11] **2,864,398**
[13] C

[51] **Int.Cl. A61B 5/08 (2006.01) A61F 5/56 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INHIBITING APNEIC EVENTS**
[54] **SYSTEMES ET PROCEDES DE PREVENTION D'EVENEMENTS APNEIQUES**
[72] PAYDARFAR, DAVID, US
[72] BARBIERI, RICCARDO, US
[72] INDIC, PREMANANDA PAI, US
[72] KANDAH, RUBY, US
[72] NIEMI, JAMES, US
[72] OSBORNE, JOHN PAUL, US
[72] SALLUM, HANI M., US
[72] WOZNIAK, AMANDA, US
[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[73] UNIVERSITY OF MASSACHUSETTS, US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2014-08-12
[86] 2012-08-30 (PCT/US2012/053192)
[87] (WO2013/033433)
[30] US (61/528,994) 2011-08-30

[11] **2,864,468**
[13] C

[51] **Int.Cl. A61N 2/02 (2006.01) A61N 2/00 (2006.01)**
[25] EN
[54] **USE OF TRANSCRANIAL MAGNETIC STIMULATION TO MODULATE PERMEABILITY OF THE BLOOD-BRAIN BARRIER**
[54] **UTILISATION D'UNE STIMULATION MAGNETIQUE TRANSCRANIENNE POUR MODULER LA PERMEABILITE DE LA BARRIERE HEMATO-ENCEPHALIQUE**
[72] PELL, GABY, IL
[72] ZANGEN, ABRAHAM, IL
[72] ROTH, YIFTACH, IL
[72] FRIEDMAN, ALON, CA
[72] VAZANA, UDI, IL
[73] BRAINSWAY, LTD., IL
[85] 2014-08-12
[86] 2013-02-13 (PCT/IB2013/051171)
[87] (WO2013/121359)
[30] US (61/597,850) 2012-02-13

[11] **2,864,932**
[13] C

[51] **Int.Cl. A61F 2/46 (2006.01) A61F 2/02 (2006.01) A61F 2/04 (2013.01) A61M 27/00 (2006.01)**
[25] EN
[54] **ADJUSTABLE HEIGHT HYDROCEPHALUS VALVE LOCATION DEVICE**
[54] **DISPOSITIF DE LOCALISATION DE VALVE POUR HYDROCEPHALIE A HAUTEUR REGLABLE**
[72] SOARES, BRIAN, US
[72] TRIGGER, ALYSSA, US
[72] DEFUSCO, MICHAEL, US
[72] WILSON, STEPHEN F., US
[73] INTEGRA LIFESCIENCES SWITZERLAND SARL, CH
[86] (2864932)
[87] (2864932)
[22] 2014-09-24
[30] US (14/040,865) 2013-09-30

[11] **2,865,833**
[13] C

[51] **Int.Cl. H04B 3/54 (2006.01)**
[25] EN
[54] **DATA COMMUNICATIONS SYSTEM**
[54] **SYSTEME DE COMMUNICATION DE DONNEES**
[72] SHANKS, DAVID SIRDA, GB
[73] ZENITH OILFIELD TECHNOLOGY LIMITED, GB
[85] 2014-08-28
[86] 2013-02-28 (PCT/GB2013/050512)
[87] (WO2013/132234)
[30] GB (1204126.5) 2012-03-08
[30] GB (1209141.9) 2012-05-24
[30] GB (1211806.3) 2012-07-04
[30] GB (1215281.5) 2012-08-28

[11] **2,866,082**
[13] C

[51] **Int.Cl. B05D 5/08 (2006.01) B63B 1/38 (2006.01) B63B 59/00 (2006.01) C09K 3/18 (2006.01)**
[25] EN
[54] **USE OF A GAS-RETAINING LAYER WHICH IS ARRANGED ON A BODY THAT IS IMMERSIBLE IN A LIQUID OR WETTABLE BY THE LIQUID**
[54] **UTILISATION D'UNE COUCHE CONTENANT DU GAZ DISPOSEE SUR UN CORPS IMMERSIBLE DANS UNE SUBSTANCE LIQUIDE OU MOUILLABLE PAR LA SUBSTANCE LIQUIDE**
[72] SCHIMMEL, THOMAS, DE
[73] BADEN-WURTTENBERG STIFTUNG GGMBH, DE
[85] 2014-09-02
[86] 2013-02-22 (PCT/EP2013/000523)
[87] (WO2013/131618)
[30] DE (10 2012 004 067.9) 2012-03-03
[30] DE (10 2012 004 574.6) 2012-03-10
[30] DE (10 2012 005 163.8) 2012-03-17
[30] DE (10 2012 007 068.3) 2012-04-11

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[11] **2,866,114**
[13] C

[51] **Int.Cl. B29C 65/20 (2006.01) E06B 3/96 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR WELDING PROFILED ELEMENTS IN PLASTIC MATERIAL, IN PARTICULAR PVC**
[54] **PROCEDE ET DISPOSITIF DESTINES AU SOUDAGE D'ELEMENTS PROFILES EN MATERIAU PLASTIQUE, EN PARTICULIER EN PVC**
[72] VACCARI, ANDREA, IT
[73] GRAF SYNERGY S.R.L., IT
[85] 2014-09-02
[86] 2013-03-04 (PCT/IB2013/051698)
[87] (WO2013/132406)
[30] IT (MO2012A000057) 2012-03-07
[30] IT (MO2012A000067) 2012-03-15
[30] IT (MO2012A000200) 2012-08-20
[30] IT (MO2012A000201) 2012-08-20

[11] **2,867,354**
[13] C

[51] **Int.Cl. E02F 3/43 (2006.01)**
[25] EN
[54] **AUTOMATED CONTROL OF DIPPER SWING FOR A SHOVEL**
[54] **COMMANDE AUTOMATIQUE DE BALANCEMENT DE GODET D'UNE PELLE MECANIQUE**
[72] LINSTROTH, MICHAEL, US
[72] COLWELL, JOSEPH, US
[72] EMERSON, MARK, US
[73] JOY GLOBAL SURFACE MINING INC, US
[85] 2014-09-12
[86] 2013-03-18 (PCT/US2013/032769)
[87] (WO2013/138801)
[30] US (61/611,682) 2012-03-16
[30] US (13/843,532) 2013-03-15

[11] **2,868,171**
[13] C

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[25] EN
[54] **ORGANIC ACID ACTIVATION OF PERSULFATES**
[54] **ACTIVATION DE PERSULFATES AU MOYEN D'ACIDE ORGANIQUE**
[72] PISANOVA, ELENA, US
[72] BLOCK, PHILIP, US
[73] FMC CORPORATION, US
[85] 2014-09-22
[86] 2013-03-21 (PCT/US2013/033211)
[87] (WO2013/142636)
[30] US (61/614,242) 2012-03-22

[11] **2,868,311**
[13] C

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[25] EN
[54] **USE OF NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDS) AND THIAZOLIDINEDIONES IN THE TREATMENT OF GIANT CELL TUMORS OCCURRING IN A BONE OR SOFT TISSUE OR OF CHONDROSARCOMA**
[54] **UTILISATION DE MEDICAMENTS ANTI-INFLAMMATOIRE NON STEROIDES ET DE THIAZOLIDINEDIONES DANS LE TRAITEMENT DE TUMEURS DE CELLULE GEANTE SURVENANT DANS UN OS OU UN TISSU MOU OU D'UN CHONDROSARCOMA**
[72] TAKEUCHI, AKIHIKO, JP
[72] TSUCHIYA, HIROYUKI, JP
[73] NIPPON CHEMIPHAR CO., LTD., JP
[85] 2014-09-23
[86] 2013-03-18 (PCT/JP2013/057706)
[87] (WO2013/146435)
[30] JP (2012-070351) 2012-03-26
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[11] **2,869,563**
[13] C

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[25] EN
[54] **DOWNHOLE COMPLETION METHOD AND SYSTEM**
[54] **METHODE DE COMPLETION DE FOND DE TROU ET SYSTEME**
[72] PURKIS, DANIEL GEORGE, GB
[72] REID, STEPHEN, GB
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2014-10-03
[86] 2013-04-03 (PCT/GB2013/050880)
[87] (WO2013/150304)
[30] GB (1205985.3) 2012-04-03

[11] **2,869,899**
[13] C

[51] **Int.Cl. C07K 14/555 (2006.01) C12Q 1/70 (2006.01)**
[25] EN
[54] **A NOVEL INTERFERON-.LAMBDA.4 (IFNL4) PROTEIN, RELATED NUCLEIC ACID MOLECULES, AND USES THEREOF**
[54] **NOUVELLE PROTEINE INTERFERON-.LAMBDA.4 (IFNL4), MOLECULES D'ACIDE NUCLEIQUE ASSOCIEES, ET LEURS UTILISATIONS**
[72] PROKUNINA, LIUDMILA, US
[72] O'BRIEN, THOMAS R., US
[72] MUCHMORE, BRIAN, US
[72] DONNELLY, RAYMOND P., US
[72] PORTER-GILL, PATRICIA A., US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2014-09-16
[86] 2013-03-14 (PCT/US2013/031624)
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[25] EN
[54] **SALT FORM OF A HUMAN HISTONE METHYLTRANSFERASE EZH2 INHIBITOR**
[54] **FORME DE SEL D'UN INHIBITEUR EZH2 DE METHYLTRANSFERASE D'HISTONES HUMAINES**
[72] KUNTZ, KEVIN WAYNE, US
[72] HUANG, KUAN-CHUN, US
[72] CHOI, HYEONG WOOK, US
[72] SANDERS, KRISTEN, US
[72] MATHIEU, STEVEN, US
[72] CHANDA, ARANI, US
[72] FANG, FRANK, US
[73] EPIZYME, INC., US
[73] EISAI R&D MANAGEMENT CO. LTD., JP
[85] 2014-10-08
[86] 2013-04-11 (PCT/US2013/036193)
[87] (WO2013/155317)
[30] US (61/624,215) 2012-04-13

[11] **2,872,748**
[13] C

[51] **Int.Cl. C21D 9/00 (2006.01) C22C 38/18 (2006.01) C22C 38/22 (2006.01)**
[25] EN
[54] **LOW TEMPERATURE HARDENABLE STEELS WITH EXCELLENT MACHINABILITY**
[54] **ACIERS POUVANT ETRE TREMPES A BASSE TEMPERATURE ET PRESENTANT UNE EXCELLENTE USINABILITE**
[72] VALLS, ISAAC, DE
[73] VALLS BESITZ GMBH, DE
[85] 2014-11-05
[86] 2013-05-07 (PCT/EP2013/059471)
[87] (WO2013/167580)
[30] EP (12166948.5) 2012-05-07

[11] **2,872,766**
[13] C

[51] **Int.Cl. A61M 25/14 (2006.01) A61L 29/04 (2006.01) A61L 29/14 (2006.01) A61M 5/142 (2006.01) A61K 38/28 (2006.01)**
[25] EN
[54] **COLLAPSE-RESISTANT SWELLABLE CATHETER**
[54] **CATHETER GONFLABLE RESISTANT A L'AFFAISSEMENT**
[72] SEARLE, GARY, US
[72] HWANG, CHARLES, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2014-11-05
[86] 2013-04-30 (PCT/US2013/038890)
[87] (WO2013/176850)
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[11] **2,873,597**
[13] C

[51] **Int.Cl. G02C 7/10 (2006.01) G02B 1/10 (2015.01) G02B 5/26 (2006.01)**
[25] FR
[54] **OPHTHALMIC LENS**
[54] **LENTILLE OPHTALMIQUE**
[72] DE AYGUAVIVES, FRANCISCO, FR
[72] MAURY, HELENE, FR
[73] ESSILOR INTERNATIONAL, FR
[85] 2014-11-13
[86] 2013-05-16 (PCT/FR2013/051075)
[87] (WO2013/171435)
[30] FR (1254529) 2012-05-16
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[11] **2,873,654**
[13] C

[51] **Int.Cl. C07D 403/04 (2006.01)**
[25] EN
[54] **PROCESS FOR MAKING HYDROXYLATED CYCLOPENTYLPYRIMIDINE COMPOUNDS**
[54] **PROCEDE DE FABRICATION DE COMPOSES DE CYCLOPENTYLPYRIMIDINE HYDROXYLEE**
[72] ASKIN, DAVID, US
[72] HAN, CHONG, US
[72] LANE, JONATHAN W., US
[72] REMARCHUK, TRAVIS, US
[72] SHAKYA, SAGAR, US
[72] SOWELL, C. GREGORY, US
[72] SPENCER, KEITH L., US
[72] STENGEL, PETER J., US
[73] ARRAY BIOPHARMA INC., US
[73] GENENTECH, INC., US
[85] 2014-11-13
[86] 2013-05-17 (PCT/US2013/041666)
[87] (WO2013/173768)
[30] US (61/648,473) 2012-05-17
[30] US (61/785,122) 2013-03-14

[11] **2,873,721**
[13] C

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[25] EN
[54] **PROCESS FOR THE PREPARATION OF OPTICALLY ACTIVE 3,3-DIPHENYLPROPYLAMINES**
[54] **PROCEDE DE PREPARATION DE 3,3-DIPHENYLPROPYLAMINES OPTIQUEMENT ACTIVES**
[72] LORENTE BONDE-LARSEN, ANTONIO, ES
[72] GALLO NIETO, FRANCISCO JAVIER, ES
[72] FERREIRO GIL, JUAN JOSE, ES
[72] MARTIN PASCUAL, PABLO, ES
[73] CRYSTAL PHARMA, S.A.U., ES
[85] 2014-10-28
[86] 2013-04-26 (PCT/EP2013/058756)
[87] (WO2013/113946)
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[13] C

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[25] EN

[54] **PHOENIXIN PEPTIDES**

[54] **PEPTIDES DE PHOENIXIN**

[72] LYU, RONG-MING, US

[72] CHANG, JAW-KANG, US

[73] PHOENIX PHARMACEUTICALS, INC., US

[85] 2014-11-19

[86] 2012-05-25 (PCT/US2012/039743)

[87] (WO2012/162679)

[30] US (61/519,747) 2011-05-26

[30] US (61/519,746) 2011-05-28

[11] **2,874,568**
[13] C

[51] **Int.Cl. A61F 2/97 (2013.01) A61F 2/95 (2013.01) A61F 2/966 (2013.01)**

[25] EN

[54] **CATHETER DELIVERY SYSTEM TO RELEASE A SELF-EXPANDING IMPLANT**

[54] **SYSTEME D'ADMINISTRATION A CATHETER POUR LA LIBERATION D'UN IMPLANT AUTO-DILATABLE**

[72] DORN, JURGEN, DE

[72] HOFFMANN, MARTINA, DE

[72] VOGEL, MICHAEL, DE

[73] ANGIOMED GMBH & CO. MEDIZINTECHNIK KG, DE

[85] 2014-11-24

[86] 2013-10-17 (PCT/EP2013/071713)

[87] (WO2014/067787)

[30] NL (2009726) 2012-10-30

[11] **2,874,632**
[13] C

[51] **Int.Cl. H01M 10/48 (2006.01)**

[25] EN

[54] **ESTIMATING CORE TEMPERATURES OF BATTERY CELLS IN A BATTERY PACK**

[54] **ESTIMATION DE TEMPERATURES DE NOYAU DE CELLULES DE BATTERIE DANS UN BLOC-BATTERIE**

[72] LIN, XINFAN, US

[72] STEFANOPOULOU, ANNA G., US

[72] DING, YI, US

[72] CASTANIER, MATTHEW P., US

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

[73] UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE ARMY (THE), US

[85] 2014-11-24

[86] 2013-05-23 (PCT/US2013/042496)

[87] (WO2013/177442)

[30] US (61/650,760) 2012-05-23

[11] **2,874,830**
[13] C

[51] **Int.Cl. A62C 35/00 (2006.01) A62C 35/58 (2006.01) A62C 35/68 (2006.01) A62C 37/08 (2006.01)**

[25] EN

[54] **ELECTRICALLY OPERATED GAS VENTS FOR FIRE PROTECTION SPRINKLER SYSTEMS AND RELATED METHODS**

[54] **EVENTS DE GAZ ACTIONNES ELECTRIQUEMENT POUR DES SYSTEMES D'EXTINCTEURS A EAU DU TYPE SPRINKLEUR ET PROCEDES ASSOCIES**

[72] KOCHALEK, JEFFREY T., US

[72] HILTON, ADAM H., US

[72] KIRN, LUCAS E., US

[72] KOCHALEK, MATTHEW J., US

[73] ENGINEERED CORROSION SOLUTIONS, LLC, US

[85] 2014-11-26

[86] 2013-05-31 (PCT/US2013/043707)

[87] (WO2013/181596)

[30] US (61/653,733) 2012-05-31

[11] **2,875,103**
[13] C

[51] **Int.Cl. B01J 20/18 (2006.01) B01D 53/02 (2006.01) B01J 20/28 (2006.01)**

[25] EN

[54] **ABSORBENT COMPOSITIONS COMPRISING ALUMINOSILICATE POWDERS AND SILICONE-DERIVED BINDING AGENTS**

[54] **NOUVELLES COMPOSITIONS ABSORBANTES COMPRENANT DES POUDRES ALUMINOSILICATES ET DES AGENTS AGGLUTINANTS**

[72] BARRETT, PHILIP ALEXANDER, US

[72] PONTONIO, STEVEN JOHN, US

[72] KECHAGIA, PERSEFONI, US

[72] STEPHENSON, NEIL ANDREW, US

[72] WESTON, KERRY C., US

[73] PRAXAIR TECHNOLOGY, INC., US

[85] 2014-11-27

[86] 2013-06-20 (PCT/US2013/046862)

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[30] US (13/530,236) 2012-06-22

[30] US (13/923,096) 2013-06-20

[11] **2,875,235**
[13] C

[51] **Int.Cl. H05B 6/42 (2006.01) B29C 45/72 (2006.01)**

[25] FR

[54] **QUICK HEATING AND COOLING MOULD**

[54] **MOULE A CHAUFFAGE ET REFROIDISSEMENT RAPIDES**

[72] GUICHARD, ALEXANDRE, FR

[72] FEIGENBLUM, JOSE, FR

[73] ROCTOOL, FR

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[86] 2013-06-19 (PCT/EP2013/062817)

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[30] FR (1255756) 2012-06-19

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[11] **2,875,463**
[13] C

[51] **Int.Cl. H02G 15/04 (2006.01)**
[25] EN
[54] **DAMMING DEVICE FOR CABLE SEALING**
[54] **DISPOSITIF DE RETENUE POUR ETANCHEITE DE CABLE**
[72] ALDRICH, ALVAH BENJAMIN, US
[72] ORZELL, SUSAN M., US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2875463)
[87] (2875463)
[22] 2014-12-19
[30] US (14/135,251) 2013-12-19

[11] **2,875,524**
[13] C

[51] **Int.Cl. H04L 12/26 (2006.01) H04L 29/08 (2006.01)**
[25] EN
[54] **BIT TORRENT SCAN WITH CROSS COMPARISON FOR ROBUST DATA MONITORING**
[54] **BALAYAGE DE FICHIERS BITTORRENT A L'AIDE D'UNE COMPARAISON CROISEE PERMETTANT UNE SURVEILLANCE DE DONNEES ROBUSTE**
[72] CHOPRA, ANJU, US
[72] BOBACK, ROBERT J., US
[73] KROLL INFORMATION ASSURANCE, LLC, US
[85] 2014-12-02
[86] 2013-06-06 (PCT/US2013/044429)
[87] (WO2013/184870)
[30] US (61/656,675) 2012-06-07
[30] US (61/726,346) 2012-11-14

[11] **2,875,625**
[13] C

[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR MEASUREMENT OF PEPTIDIC DEGRADATION PRODUCTS OF A PROTEOLYTIC CASCADE IN BLOOD SAMPLES**
[54] **PROCEDE DE MESURE DE PRODUITS DE DEGRADATION PEPTIDIQUE D'UNE CASCADE PROTEOLYTIQUE DANS DES ECHANTILLONS SANGUINS**
[72] POGLITSCH, MARKO, AT
[72] SCHWAGER, CORNELIA, AT
[72] LOIBNER, HANS, AT
[72] SCHUSTER, MANFRED, AT
[73] ATTOQUANT DIAGNOSTICS GMBH, AT
[85] 2014-12-03
[86] 2012-06-06 (PCT/EP2012/060678)
[87] (WO2013/182237)

[11] **2,875,633**
[13] C

[51] **Int.Cl. F16L 58/00 (2006.01) C23F 13/08 (2006.01)**
[25] EN
[54] **PIPELINE AND METHODS TO PROVIDE CATHODIC PROTECTION TO A PIPELINE**
[54] **CANALISATION ET PROCEDES POUR FOURNIR UNE PROTECTION CATHODIQUE A UNE CANALISATION**
[72] HESJEVIK, SVEN MORTEN, NO
[72] LEVOLD, ERIK, NO
[72] KVAALE, PER EGIL, NO
[73] TECHNIP NORGE AS, NO
[85] 2014-12-03
[86] 2013-05-09 (PCT/EP2013/059688)
[87] (WO2013/189658)
[30] EP (12172555.0) 2012-06-19

[11] **2,875,816**
[13] C

[51] **Int.Cl. F01D 5/18 (2006.01)**
[25] EN
[54] **TURBINE AIRFOIL APPARATUS AND CORRESPONDING METHOD**
[54] **AUBE DE TURBINE AVEC CIRCUIT DE REFROIDISSEMENT DE PLATE-FORME MOULEE**
[72] MOLTER, STEPHEN MARK, US
[72] STEGEMILLER, MARK EDWARD, US
[72] PEARSON, SHAWN MICHAEL, US
[72] BRASSFIELD, STEVEN ROBERT, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2014-12-04
[86] 2013-06-17 (PCT/US2013/046113)
[87] (WO2013/188869)
[30] US (61/660,183) 2012-06-15

[11] **2,876,474**
[13] C

[51] **Int.Cl. A61K 47/30 (2006.01) A61K 9/00 (2006.01) A61K 9/08 (2006.01)**
[25] EN
[54] **POLYMERIC TREATMENT COMPOSITIONS**
[54] **COMPOSITIONS DE TRAITEMENT POLYMERES**
[72] CRUISE, GREGORY M., US
[72] CONSTANT, MICHAEL J., US
[72] GARRETSON, JOSHUA, US
[73] MICROVENTION, INC., US
[85] 2014-12-11
[86] 2013-06-13 (PCT/US2013/045692)
[87] (WO2013/188681)
[30] US (61/659,916) 2012-06-14

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[11] **2,877,950**
[13] C

[51] **Int.Cl. G01N 1/00 (2006.01) B01D 57/02 (2006.01) B01L 3/00 (2006.01)**

[25] EN

[54] **TECHNIQUES AND DROPLET ACTUATOR DESIGNS FOR REDUCING BUBBLE FORMATION**

[54] **TECHNIQUES ET CONCEPTIONS DE DISPOSITIF DE COMMANDE DE GOUTTELETTE PERMETTANT DE REDUIRE LA FORMATION DE BULLES**

[72] DELATTRE, CYRIL, FR

[72] RIVAL, ARNAUD, FR

[72] SRINIVASAN, VIJAY, US

[73] ADVANCED LIQUID LOGIC INC., US

[73] ILLUMINA FRANCE, FR

[85] 2014-12-24

[86] 2013-06-27 (PCT/US2013/048319)

[87] (WO2014/004908)

[30] US (61/664,980) 2012-06-27

[30] US (61/666,417) 2012-06-29

[30] US (61/678,263) 2012-08-01

[11] **2,877,974**
[13] C

[51] **Int.Cl. B01J 23/62 (2006.01) B01J 23/00 (2006.01) B01J 23/656 (2006.01) B01J 23/89 (2006.01) C07C 29/00 (2006.01) C07C 31/12 (2006.01)**

[25] EN

[54] **METHOD FOR OBTAINING HIGHER ALCOHOLS**

[54] **PROCEDE D'OBTENTION D'ALCOOLS SUPERIEURS**

[72] ARJONA ANTOLIN, RICARDO, ES

[72] SANZ YAGUE, JUAN LUIS, ES

[72] CORMA CANOS, AVELINO, ES

[72] DOMINE, MARCELO EDUARDO, ES

[72] VIDAL BARRERO, FERNANDO, ES

[72] LADRON DE GUEVARA VIDAL, FRANCISCO ANTONIO, ES

[73] ABENGOA BIOENERGIA NUEVAS TECNOLOGIAS, S.A., ES

[85] 2014-12-29

[86] 2013-07-01 (PCT/ES2013/070448)

[87] (WO2014/001597)

[30] EP (12382261.1) 2012-06-29

[11] **2,878,194**
[13] C

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/24 (2006.01)**

[25] EN

[54] **AUTOMATIC INJECTORS FOR INJECTABLE CARTRIDGES AND DRIVE CONTROL MECHANISMS THEREFOR**

[54] **INJECTEURS AUTOMATIQUES POUR CARTOUCHES INJECTABLES ET MECANISMES DE COMMANDE D'ENTRAINEMENT POUR CEUX-CI**

[72] BOKELMAN, KEVIN, US

[72] WOHLHIETER, GEORGE M., US

[72] MCGEE, THOMAS F., US

[72] MARLIN, ARTHUR G., US

[72] HUROWITZ, STEFANIE A., US

[72] JANSEN, DAVID R., US

[72] NI CHATHAIL, ELLEN, IE

[73] UNITRACT SYRINGE PTY LTD, AU

[85] 2014-12-30

[86] 2013-07-03 (PCT/US2013/049314)

[87] (WO2014/008393)

[30] US (61/668,303) 2012-07-05

[30] US (61/683,499) 2012-08-15

[11] **2,878,382**
[13] C

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 5/30 (2006.01)**

[25] EN

[54] **THERAPEUTIC SUPPORT FOR BEING WORN BY A SUBJECT**

[54] **DISPOSITIF THERAPEUTIQUE DE SUPPORT DESTINE A ETRE PORTE PAR UN SUJET**

[72] POLLOCK, CHERYL LEONIE, AU

[73] CHEZLEON PTY LIMITED, AU

[85] 2015-01-05

[86] 2012-08-03 (PCT/AU2012/000931)

[87] (WO2014/005170)

[30] AU (2012902897) 2012-07-06

[11] **2,879,432**
[13] C

[51] **Int.Cl. F03D 5/00 (2006.01)**

[25] EN

[54] **GLIDER FOR AIRBORNE WIND ENERGY PRODUCTION**

[54] **PLANEUR DESTINE A LA PRODUCTION AERIENNE D'ENERGIE EOLIENNE**

[72] RUITERKAMP, RICHARD, NL

[73] AMPYX POWER B.V., NL

[85] 2015-01-19

[86] 2013-08-14 (PCT/EP2013/002446)

[87] (WO2014/029477)

[30] EP (12181506.2) 2012-08-23

[11] **2,879,721**
[13] C

[51] **Int.Cl. H01G 2/06 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR REDUCING AUDIBLE AND/OR ELECTRICAL NOISE FROM ELECTRICALLY OR MECHANICALLY EXCITED CAPACITORS**

[54] **PROCEDE ET SYSTEME POUR LA REDUCTION DE BRUIT SONORE ET/OU ELECTRIQUE PROVENANT DE CONDENSATEURS EXCITES ELECTRIQUEMENT OU MECANIQUEMENT**

[72] SLAGLE, STEVE D., US

[72] SHAW, JAMES D., US

[72] MIMMS, GEORGE C., US

[72] ERICKSON, KYLE E., US

[73] ALLISON TRANSMISSION, INC., US

[85] 2015-01-21

[86] 2013-08-27 (PCT/US2013/056737)

[87] (WO2014/035929)

[30] US (61/694,827) 2012-08-30

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[11] **2,880,111**
[13] C

[51] **Int.Cl. B01J 8/02 (2006.01) B01D 24/12 (2006.01)**
[25] EN
[54] **ENHANCED SHAPE SUPPORT GRID**
[54] **GRILLE DE SUPPORT DE FORME AMELIOREE**
[72] SAUL, GARTH HAYES, US
[72] NORELL, ROBERT GLEN, US
[72] BRABEC, DEAN GERALD, US
[72] SCHMITT, BENJAMIN, US
[72] VISEKRUNA, DUSAN, US
[72] EKHOLM, MICHAEL RICHARD, US
[72] EBERHARDT, EUGENE, US
[72] WOLFE, EDMUND M., US
[73] AQSEPTENCE GROUP, INC., US
[85] 2015-01-26
[86] 2013-07-26 (PCT/US2013/052369)
[87] (WO2014/018911)
[30] US (61/676,156) 2012-07-26
[30] US (61/809,091) 2013-04-05

[11] **2,880,180**
[13] C

[51] **Int.Cl. C12J 1/00 (2006.01) A23L 27/00 (2016.01) A23L 33/10 (2016.01) A23P 10/40 (2016.01) A23L 3/3508 (2006.01)**
[25] EN
[54] **PREPARATION OF A POWDERED VINEGAR**
[54] **PREPARATION D'UN VINAIGRE EN POUDRE**
[72] BOEREFIJN, RENEE, NL
[72] ORLOVIC, MARIJA, NL
[72] VAN DER VOORT MAARSCHALK, KEES, NL
[73] PURAC BIOCHEM B.V., NL
[85] 2015-01-26
[86] 2013-07-31 (PCT/NL2013/050573)
[87] (WO2014/021719)
[30] EP (12178789.9) 2012-08-01
[30] US (61/678,133) 2012-08-01

[11] **2,880,301**
[13] C

[51] **Int.Cl. E04B 2/74 (2006.01) E04B 2/82 (2006.01)**
[25] EN
[54] **SELECTIVELY ADJUSTABLE ARCHITECTURAL WALL**
[54] **PAROI ARCHITECTURALE REGLABLE DE FACON SELECTIVE**
[72] GOSLING, GEOFF, CA
[73] DIRTT ENVIRONMENTAL SOLUTIONS, LTD., CA
[85] 2015-01-27
[86] 2013-11-13 (PCT/US2013/069923)
[87] (WO2014/078437)
[30] US (61/725,920) 2012-11-13

[11] **2,880,780**
[13] C

[51] **Int.Cl. B29C 44/00 (2006.01) B29C 44/12 (2006.01) B29C 44/32 (2006.01) E06B 3/263 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING COMPOSITE PROFILES**
[54] **PROCEDE DE FABRICATION DE PROFILES COMPOSITES**
[72] KOSTERS, MICHAEL, DE
[72] TOMASI, GIANPAOLO, DE
[72] SCHON, LARS, DE
[72] WINDELER, LUDWIG, DE
[73] BASF SE, DE
[85] 2015-02-03
[86] 2013-09-16 (PCT/EP2013/069130)
[87] (WO2014/048785)
[30] EP (12186476.3) 2012-09-28

[11] **2,881,599**
[13] C

[51] **Int.Cl. C08J 3/075 (2006.01) A61L 27/14 (2006.01) A61L 31/04 (2006.01) B01J 19/06 (2006.01)**
[25] EN
[54] **DENSE HYDROGELS**
[54] **HYDROGELS DENSES**
[72] NAZHAT, SHOWAN N., CA
[72] MARELLI, BENEDETTO, US
[72] GHEZZI, CHIARA, US
[72] KAMRANPOUR, NEYSAN NEJAT OLIVER, CA
[73] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[85] 2015-02-09
[86] 2013-08-09 (PCT/CA2013/050615)
[87] (WO2014/022939)
[30] US (61/681,209) 2012-08-09
[30] US (61/788,150) 2013-03-15

[11] **2,882,276**
[13] E

[51] **Int.Cl. C12N 1/21 (2006.01) C12P 5/00 (2006.01) C12P 7/54 (2006.01)**
[25] EN
[54] **RECOMBINANT MICROORGANISMS EXPRESSING A STEREOSPECIFIC DIOL DEHYDRATASE ENZYME**
[54] **MICROORGANISMES RECOMBINANTS EXPRIMANT UNE ENZYME DESHYDROGENASE DIOL STEREOSPECIFIQUE**
[72] MUELLER, ALEXANDER PAUL, NZ
[72] KOEPKE, MICHAEL, NZ
[73] LANZATECH NEW ZEALAND LIMITED, NZ
[85] 2015-02-16
[86] 2013-08-28 (PCT/US2013/057103)
[87] (WO2014/036152)
[48] 2021-06-22
[30] US (61/694,104) 2012-08-28
[30] US (61/720,224) 2012-10-30

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[11] **2,882,705**
[13] C

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[25] EN
[54] **NANOPARTICLE FORMULATION
COMPRISING CATIONIC
CHOLESTEROL DERIVATIVES
FOR DELIVERY OF SHORT-
CHAIN FATTY ACIDS**

[54] **FORMULATION DE
NANOPARTICULES
COMPRENANT DES DERIVES
CATIONIQUES DE
CHOLESTEROL POUR
L'ADMINISTRATION D'ACIDES
GRAS A CHAINE COURTE**

[72] BELL, JIMMY, GB
[72] THOMAS, ELIZABETH LOUISE, GB
[72] BRODY, LEIGH, GB
[72] ARISOYLU, MELIZ SAHURI, GB
[72] MILLER, ANDREW, GB
[72] FROST, GARY, GB
[73] IMPERIAL INNOVATIONS LTD, GB
[73] UNITED KINGDOM RESEARCH
AND INNOVATION, GB
[85] 2015-02-20
[86] 2013-08-28 (PCT/GB2013/052258)
[87] (WO2014/033453)
[30] GB (1215289.8) 2012-08-28

[11] **2,883,191**
[13] C

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A23K 50/40 (2016.01)**

[25] EN
[54] **MANAGING WEIGHT LOSS AND
BODY MASS**

[54] **GESTION DE PERTE DE POIDS ET
DE MASSE CORPORELLE**

[72] PAN, YUANLONG, US
[73] SOCIETE DES PRODUITS NESTLE
S.A., CH
[85] 2015-02-20
[86] 2013-08-22 (PCT/US2013/056150)
[87] (WO2014/031836)
[30] US (61/692,385) 2012-08-23

[11] **2,883,727**
[13] C

[51] **Int.Cl. B62D 25/00 (2006.01) B60R
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[25] EN
[54] **VEHICLE INTERIOR PARTITION
DIVISION DE L'INTERIEUR D'UN
VEHICULE**

[72] RICHTER, THOMAS S., US
[73] ADRIAN STEEL COMPANY, US
[86] (2883727)
[87] (2883727)
[22] 2015-03-03
[30] US (61/947,058) 2014-03-03

[11] **2,884,253**
[13] C

[51] **Int.Cl. C09K 8/80 (2006.01) B01J 2/02
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[25] EN
[54] **PROPPANT PARTICLES FORMED
FROM SLURRY DROPLETS AND
METHOD OF USE**

[54] **PARTICULES D'AGENT DE
SOUTÈNEMENT FORMÈES A
PARTIR DE GOUTTELETTES DE
SUSPENSION ET PROCÈDE
D'UTILISATION**

[72] ELDRED, BENJAMIN T., US
[72] WILSON, BRETT A., US
[72] GARDINIER, CLAYTON F., US
[72] DUENCKEL, ROBERT J., US
[73] CARBO CERAMICS, INC., US
[85] 2015-03-06
[86] 2013-09-09 (PCT/US2013/058763)
[87] (WO2014/039968)
[30] US (13/608,530) 2012-09-10

[11] **2,884,472**
[13] C

[51] **Int.Cl. A61K 31/765 (2006.01) A61K
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(2006.01) A61K 33/14 (2006.01) A61P
1/10 (2006.01)**

[25] EN
[54] **COLON CLEANSING
COMPOSITION COMPRISING
ASCORBATE AND PEG**

[54] **COMPOSITION POUR
NETTOYAGE DU COLON
COMPRENANT DE
L'ASCORBATE ET DU
POLYETHYLENEGLYCOL (PEG)**

[72] CLAYTON, LUCY, GB
[72] COCKETT, ALASDAIR, GB
[72] CHRISTODOULOU, MARK, GB
[72] DAVIDSON, IAN, GB
[72] FARRAG, LYNN, GB
[72] HALPHEN, MARC, GB
[72] JONES, LEIGHTON, GB
[72] PETROSSIAN, VANIK, US
[72] STEIN, PETER, NL
[72] TISI, DAVID, US
[72] UNGAR, ALEX, GB
[72] WORTHINGTON, JEFFREY, US
[73] NORGINE BV, NL
[85] 2015-03-10
[86] 2013-09-10 (PCT/EP2013/068738)
[87] (WO2014/040994)
[30] US (61/699,488) 2012-09-11
[30] US (61/787,366) 2013-03-15

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[13] C

[51] **Int.Cl. A61M 5/172 (2006.01) A61B 5/145 (2006.01)**

[25] EN

[54] **SAFEGUARDING TECHNIQUES FOR A CLOSED-LOOP INSULIN INFUSION SYSTEM**

[54] **TECHNIQUES DE SECURITE POUR SYSTEME DE PERFUSION D'INSULINE EN BOUCLE FERMEE**

[72] MASTROTOTARO, JOHN J., US
[72] GROSMAN, BENYAMIN, US
[72] PARIKH, NEHA J., US
[72] ROY, ANIRBAN, US
[72] KEENAN, DESMOND BARRY, US
[73] MEDTRONIC MINIMED, INC., US
[86] (2885003)
[87] (2885003)
[22] 2013-08-14
[62] 2,882,300
[30] US (61/694950) 2012-08-30
[30] US (61/694961) 2012-08-30
[30] US (61/812874) 2013-04-17
[30] US (13/870907) 2013-04-25
[30] US (13/870902) 2013-04-25
[30] US (13/966109) 2013-08-13
[30] US (13/966101) 2013-08-13
[30] US (13/966120) 2013-08-13
[30] US (13/966114) 2013-08-13
[30] US (13/870910) 2013-04-25

[11] **2,885,059**
[13] C

[51] **Int.Cl. G06F 16/11 (2019.01) G06F 11/14 (2006.01)**

[25] EN

[54] **RETRIEVING POINT-IN-TIME COPIES OF A SOURCE DATABASE FOR CREATING VIRTUAL DATABASES**

[54] **RECUPERATION DE COPIES INSTANTANEEES D'UNE BASE DE DONNEES SOURCE POUR CREER DES BASES DE DONNEES VIRTUELLES**

[72] AHRENS, MATTHEW, US
[72] SINHA, SUBHADEEP, US
[72] WILSON, GEORGE, US
[72] BISEDA, JEFFREY, US
[73] DELPHIX CORP., US
[85] 2015-03-13
[86] 2013-10-10 (PCT/US2013/064389)
[87] (WO2014/059175)
[30] US (61/712,765) 2012-10-11
[30] US (13/799,644) 2013-03-13

[11] **2,885,169**
[13] C

[51] **Int.Cl. A61K 47/60 (2017.01) A61K 9/10 (2006.01) A61P 19/02 (2006.01)**

[25] EN

[54] **DIAGNOSIS, PREVENTION AND TREATMENT OF DISEASES OF THE JOINT**

[54] **DIAGNOSTIC, PREVENTION ET TRAITEMENT DE MALADIES ARTICULAIRES**

[72] VETTER, DIRK, DE
[72] HERSEL, ULRICH, DE
[72] SPROGOE, KENNETT, US
[72] KALUZA, NORA, DE
[72] KEIL, OLIVER, DE
[72] MAITRO, GUILLAUME, DE
[72] RAU, HARALD, DE
[73] ASCENDIS PHARMA A/S, DK
[85] 2015-03-16
[86] 2013-10-08 (PCT/EP2013/070949)
[87] (WO2014/056915)
[30] EP (12188227.8) 2012-10-11

[11] **2,885,196**
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/4704 (2006.01) A61K 31/496 (2006.01) A61K 31/551 (2006.01) A61K 47/26 (2006.01) A61K 47/30 (2006.01) A61P 25/18 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS HAVING IMPROVED STORAGE STABILITY**

[54] **COMPOSITIONS PHARMACEUTIQUES AYANT UNE PLUS GRANDE STABILITE AU STOCKAGE**

[72] PERRY, JASON M., US
[72] DEEVER, DANIEL R., US
[72] HICKEY, MAGALI B., US
[72] REMENAR, JULIUS F., US
[72] VANDIVER, JENNIFER, US
[72] PALMIERI, MICHAEL J., JR., US
[72] PAN, ZHENGZHENG, US
[73] ALKERMES PHARMA IRELAND LIMITED, IE
[85] 2015-03-16
[86] 2013-09-19 (PCT/IB2013/002995)
[87] (WO2014/080285)
[30] US (61/702,881) 2012-09-19
[30] US (61/780,862) 2013-03-13

[11] **2,886,068**
[13] C

[51] **Int.Cl. A61K 51/08 (2006.01) A61P 35/00 (2006.01) C07B 59/00 (2006.01) C07K 7/06 (2006.01) C07K 14/575 (2006.01)**

[25] EN

[54] **RADIOLABELED GRPR-ANTAGONISTS FOR DIAGNOSTIC IMAGING AND TREATMENT OF GRPR-POSITIVE CANCER**

[54] **ANTAGONISTES GRPR RADIOMARQUES DESTINES A L'IMAGERIE DIAGNOSTIQUE ET AU TRAITEMENT DE CANCER POSITIF GRPR**

[72] MAINA-NOCK, THEODOSIA, GR
[72] NOCK, BERTHOLD ARTUR, GR
[72] DE JONG HENDRIKS, MARION, NL
[73] ADVANCED ACCELERATOR APPLICATIONS INTERNATIONAL SA, CH
[85] 2015-03-24
[86] 2013-09-25 (PCT/US2013/061712)
[87] (WO2014/052471)
[30] US (61/705,513) 2012-09-25

[11] **2,887,043**
[13] C

[51] **Int.Cl. A61K 31/485 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION OF OPIOIDS AND ANTICANCER DRUGS FOR CANCER TREATMENT**

[54] **COMBINAISON D'OPIOIDES ET D'ANTICANCEREUX POUR LE TRAITEMENT DU CANCER**

[72] FRIESEN, CLAUDIA, DE
[72] MILTNER, ERICH, DE
[73] UNIVERSITAT ULM, DE
[85] 2015-04-07
[86] 2013-10-08 (PCT/EP2013/070923)
[87] (WO2014/056897)
[30] EP (12006946.3) 2012-10-08
[30] EP (12007179.0) 2012-10-17

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[11] **2,887,784**
[13] C

[51] **Int.Cl. G01V 3/02 (2006.01) G01D 11/30 (2006.01) G01F 1/58 (2006.01) G01R 1/06 (2006.01) G01V 15/00 (2006.01) H01R 4/64 (2006.01) H01R 9/24 (2006.01)**

[25] EN

[54] **TERMINAL FOR DETECTING AN OPTICALLY INVISIBLE NETWORK, APPARATUS INCLUDING SUCH A DETECTION TERMINAL, AND METHOD FOR DETECTING AN OPTICALLY INVISIBLE NETWORK**

[54] **BORNE DE DETECTION D'UN RESEAU OPTIQUEMENT INVISIBLE, INSTALLATION COMPRENANT UNE TELLE BORNE DE DETECTION, ET PROCEDE DE DETECTION D'UN RESEAU OPTIQUEMENT INVISIBLE**

[72] ARNAUD, DANIEL, FR
[72] SAAD, MOUNIR, FR
[73] SOCIETE PLYMOUTH FRANCAISE, FR

[85] 2015-04-09
[86] 2013-10-17 (PCT/FR2013/052484)
[87] (WO2014/060704)
[30] FR (1259980) 2012-10-19

[11] **2,887,912**
[13] C

[51] **Int.Cl. C07D 403/14 (2006.01) A61K 31/437 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **BICYCLIC HETEROCYCLE COMPOUNDS AND THEIR USES IN THERAPY**

[54] **COMPOSES HETEROCYCLIQUES BICYCLIQUES ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] CHESSARI, GIANNI, GB
[72] JOHNSON, CHRISTOPHER NORBERT, GB
[72] PAGE, LEE WILLIAM, GB
[72] BUCK, ILDIKO MARIA, GB
[72] DAY, JAMES EDWARD HARVEY, GB
[72] HOWARD, STEVEN, GB
[72] SAXTY, GORDON, GB
[72] MURRAY, CHRISTOPHER WILLIAM, GB

[73] ASTEX THERAPEUTICS LIMITED, GB

[85] 2015-04-02
[86] 2013-10-18 (PCT/GB2013/052723)
[87] (WO2014/060770)
[30] GB (1218850.4) 2012-10-19
[30] US (61/716,084) 2012-10-19

[11] **2,888,782**
[13] C

[51] **Int.Cl. A23J 3/34 (2006.01) A23L 33/18 (2016.01) A23J 1/12 (2006.01) A23J 3/30 (2006.01)**

[25] EN

[54] **MILD HYDROLYSIS OF PROTEINS FROM RICE BRAN**

[54] **HYDROLYSE DOUCE DE PROTEINES DE SON DE RIZ**

[72] JANSE, ARTHUR MAURITS CHRISTIAAN, NL
[72] VEERMAN, CECILE, NL
[72] SMOLDERS, GERARDUS JOHANNES FRANCISCUS, NL

[73] DSM IP ASSETS B.V., NL

[85] 2015-04-20
[86] 2013-10-21 (PCT/EP2013/071914)
[87] (WO2014/064024)
[30] EP (12189395.2) 2012-10-22

[11] **2,888,840**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 9/70 (2006.01)**

[25] EN

[54] **PROCESS FOR THE MANUFACTURING OF A MULTILAYER DRUG DELIVERY CONSTRUCT**

[54] **PROCESSUS DE FABRICATION D'UNE CONSTRUCTION D'ADMINISTRATION DE MEDICAMENT A PLUSIEURS COUCHES**

[72] ZUPANCICH, JOHN ANDREW, NL
[72] BERARD, JULIEN FRANCOIS, NL
[73] DSM IP ASSETS B.V., NL

[85] 2015-04-21
[86] 2013-10-23 (PCT/EP2013/072142)
[87] (WO2014/064140)
[30] EP (12189563.5) 2012-10-23
[30] US (61/717,205) 2012-10-23

[11] **2,889,037**
[13] C

[51] **Int.Cl. C07K 14/00 (2006.01) C07K 14/195 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **ABD BINDING POLYPEPTIDE**

[54] **POLYPEPTIDE LIE A UN DOMAINE DE LIAISON A L'ALBUMINE (ABD)**

[72] JONASSON, PER, SE
[72] EKLUND, PAR, SE
[73] AFFIBODY AB, SE

[85] 2015-04-22
[86] 2013-10-25 (PCT/EP2013/072359)
[87] (WO2014/064237)
[30] EP (12189932.2) 2012-10-25
[30] US (61/718,238) 2012-10-25

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[11] **2,889,765**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) C12Q 1/6809 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6886 (2018.01) C12Q 1/6897 (2018.01) A61K 31/337 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/72 (2006.01) C07K 16/28 (2006.01) C12N 15/12 (2006.01) C12Q 1/02 (2006.01) C12Q 1/68 (2018.01) C40B 30/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN
[54] **ANDROGEN RECEPTOR VARIANTS AND METHODS FOR MAKING AND USING**
[54] **VARIANTS DU RECEPTEUR DES ANDROGENES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] BALBAS, MINNA D., US
[72] SAWYERS, CHARLES L., US
[72] WATSON, PHILIP, US
[73] MEMORIAL SLOAN-KETTERING CANCER CENTER, US

[85] 2015-04-24
[86] 2013-10-25 (PCT/US2013/066982)
[87] (WO2014/066864)
[30] US (61/719,105) 2012-10-26

[11] **2,890,047**
[13] C

[51] **Int.Cl. B07C 5/36 (2006.01) B07C 5/342 (2006.01)**

[25] EN
[54] **MEASURING PARAMETERS OF PARTICULATE MATERIAL**
[54] **MESURE DE PARAMETRES DE MATERIAU EN PARTICULES**

[72] SMITH, JAMES GORDON CHARTERS, GB
[72] READ, PHILIP, GB
[72] PORTSMOUTH, ANDREW JOHN, GB
[73] DE BEERS UK LTD, GB

[85] 2015-04-30
[86] 2013-10-29 (PCT/EP2013/072584)
[87] (WO2014/067932)
[30] GB (1219519.4) 2012-10-30

[11] **2,890,378**
[13] C

[51] **Int.Cl. A01N 25/30 (2006.01) A01N 39/04 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**

[25] EN
[54] **AQUEOUS ADJUVANT COMPOSITIONS COMPRISING ALKYLGLUCAMIDES**
[54] **COMPOSITIONS D'ADJUVANT AQUEUSES COMPRENANT DES ALKYLGLUCAMIDES**

[72] WACKER, ANDREAS, DE
[73] CLARIANT INTERNATIONAL LTD., CH

[85] 2015-05-01
[86] 2013-11-01 (PCT/EP2013/003290)
[87] (WO2014/067663)
[30] DE (10 2012 021 647.5) 2012-11-03

[11] **2,890,652**
[13] C

[51] **Int.Cl. F24C 15/20 (2006.01) B08B 15/00 (2006.01) F23J 11/00 (2006.01)**

[25] FR
[54] **VENTILATION SYSTEM WITH STANDARD EXHAUST CONDUIT FOR A COMMERCIAL KITCHEN**
[54] **SYSTEME DE VENTILATION AVEC CONDUIT D'EVACUATION ORDINAIRE POUR UNE CUISINE COMMERCIALE**

[72] BOUDREAULT, JEAN-PIERRE, CA
[73] GESTION TRAGEC (2017) INC., CA

[86] (2890652)
[87] (2890652)
[22] 2015-05-05

[11] **2,890,753**
[13] C

[51] **Int.Cl. B60L 53/16 (2019.01) B60L 53/60 (2019.01) H02J 7/00 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR ENABLING FAST CHARGING OF AN ELECTRIC VEHICLE AT A CHARGING STATION**
[54] **SYSTEMES ET PROCEDES DESTINES A PERMETTRE UNE CHARGE RAPIDE D'UN VEHICULE ELECTRIQUE A UN POSTE DE CHARGE**

[72] MCGRATH, SEAMUS, US
[72] SARKAR, REUBEN, US
[72] SHAH, KEYUR, US
[73] PROTERRA INC., US

[85] 2015-05-07
[86] 2013-11-13 (PCT/US2013/069953)
[87] (WO2014/078456)
[30] US (61/725,973) 2012-11-13

[11] **2,890,928**
[13] C

[51] **Int.Cl. C09C 1/36 (2006.01) C09C 1/02 (2006.01) C09C 1/04 (2006.01) C09C 1/16 (2006.01) C09C 1/40 (2006.01) C09C 3/00 (2006.01) C09C 3/06 (2006.01) C09C 3/08 (2006.01) D21H 17/67 (2006.01) D21H 17/69 (2006.01) D21H 27/26 (2006.01) D21H 27/30 (2006.01)**

[25] EN
[54] **SELF-DISPERSING PIGMENTS**
[54] **PIGMENTS AUTO-DISPERSIBLES**

[72] VANHECKE, FRANCK ANDRE, BE
[72] CHINN, MITCHELL SCOTT, US
[73] THE CHEMOURS COMPANY FC, LLC, US

[85] 2015-05-08
[86] 2013-10-24 (PCT/US2013/066480)
[87] (WO2014/078039)
[30] US (61/725,597) 2012-11-13

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[11] **2,891,195**
[13] C

[51] **Int.Cl. E21B 23/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PRODUCTION OF A PRIMARY FLUID, SUCH AS OIL, FROM AN UNDERGROUND RESERVOIR**

[54] **SYSTEME ET PROCEDE DE PRODUCTION D'UN FLUIDE PRIMAIRE, TEL QUE DU PETROLE, A PARTIR D'UN RESERVOIR SOUTERRAIN**

[72] ALBERTS, BERT FENNECHIENES, DE
[73] KARIZAN B.V., NL
[85] 2015-05-11
[86] 2013-07-10 (PCT/NL2013/050523)
[87] (WO2014/011043)
[30] NL (2009165) 2012-07-10

[11] **2,891,302**
[13] C

[51] **Int.Cl. B65D 25/16 (2006.01) B29C 49/02 (2006.01) B65D 1/02 (2006.01) B29B 11/08 (2006.01)**

[25] EN
[54] **CONTAINER, PREFORM ASSEMBLY AND METHOD AND APPARATUS FOR FORMING CONTAINERS.**

[54] **RECIPIENT, ENSEMBLE PREFORME, ET PROCEDE ET APPAREIL DE FORMATION DE RECIPIENTS.**

[72] PAAUWE, ARIE MAARTEN, NL
[72] BAX, BART JAN, NL
[72] BLOM, HAROLD MARCEL, NL
[73] HEINEKEN SUPPLY CHAIN B.V., NL
[85] 2015-05-12
[86] 2013-11-13 (PCT/NL2013/050813)
[87] (WO2014/077681)
[30] NL (2009802) 2012-11-13

[11] **2,891,416**
[13] C

[51] **Int.Cl. A23C 19/09 (2006.01) A23C 19/00 (2006.01) A23C 19/093 (2006.01)**

[25] EN
[54] **CHEESE COMPOSITIONS AND RELATED METHODS**

[54] **COMPOSITIONS DE FROMAGE ET PROCEDES ASSOCIES**

[72] FRAZIER, AMELIA E., US
[72] MORRIS, NATHAN S., US
[72] WLASCHIN, AARON P., US
[73] GENERAL MILLS, INC., US
[85] 2015-05-13
[86] 2013-05-30 (PCT/US2013/043218)
[87] (WO2014/084900)
[30] US (61/731,551) 2012-11-30

[11] **2,892,326**
[13] C

[51] **Int.Cl. G06F 3/14 (2006.01) A61B 5/055 (2006.01) A61B 6/03 (2006.01) A61B 8/15 (2006.01) G09G 5/36 (2006.01) H04L 12/28 (2006.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR DISPLAYING TO A USER A TRANSITION BETWEEN A FIRST RENDERED PROJECTION AND A SECOND RENDERED PROJECTION**

[54] **PROCEDE ET SYSTEME POUR AFFICHER A L'INTENTION D'UN UTILISATEUR UNE TRANSITION ENTRE UNE PREMIERE PROJECTION RENDUE ET UNE SECONDE PROJECTION RENDUE**

[72] CHANDELIER, FLORENT ANDRE ROBERT, CA
[72] VINCENT, THOMAS BERNARD PASCAL, CA
[73] CADENS MEDICAL IMAGING INC., CA
[85] 2015-05-22
[86] 2013-11-22 (PCT/CA2013/000982)
[87] (WO2014/078944)
[30] US (61/729,472) 2012-11-23

[11] **2,892,840**
[13] C

[51] **Int.Cl. B22F 3/105 (2006.01) B29C 64/153 (2017.01)**

[25] FR
[54] **A METHOD FOR THE ADDITIVE MANUFACTURING OF A PART BY SELECTIVE MELTING OR SELECTIVE SINTERING OF OPTIMISED-COMPACTNESS POWDER BEDS USING A HIGH ENERGY BEAM**

[54] **PROCEDE DE FABRICATION ADDITIVE D'UNE PIECE PAR FUSION SELECTIVE OU FRITTAGE SELECTIF DE LITS DE POUDRE A COMPACITE OPTIMISEE PAR FAISCEAU DE HAUTE ENERGIE**

[72] COLIN, CHRISTOPHE, FR
[72] MOTTIN, JEAN-BAPTISTE, FR
[72] KIRSCHNER, LAETITIA, FR
[72] SAUSSEREAU, GERARD, FR
[73] SNECMA, FR
[73] MBDA FRANCE, FR
[85] 2015-05-25
[86] 2013-11-27 (PCT/FR2013/052867)
[87] (WO2014/083277)
[30] FR (1203196) 2012-11-27

[11] **2,892,934**
[13] C

[51] **Int.Cl. G01D 5/28 (2006.01) G02B 27/48 (2006.01)**

[25] EN
[54] **METHOD AND APPARATUS FOR REDUCING SPECKLE NOISE IN AN OPTICAL SYSTEM**

[54] **PROCEDE ET APPAREIL PERMETTANT DE REDUIRE UN BRUIT SPECKLE DANS UN SYSTEME OPTIQUE**

[72] WEIDMANN, DAMIEN, GB
[72] MACLEOD, NEIL ANGUS, GB
[73] ITI SCOTLAND LIMITED, GB
[85] 2015-05-29
[86] 2013-11-29 (PCT/GB2013/053161)
[87] (WO2014/083349)
[30] GB (1221677.6) 2012-11-30

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[11] **2,894,361**
[13] C

[51] **Int.Cl. A01G 23/081 (2006.01)**
[25] EN
[54] **FORESTRY DEVICE WITH
ARTICULATED ACCUMULATING
ARM**
[54] **APPAREIL DE FORESTERIE
DOTE D'UN BRAS
D'ACCUMULATION ARTICULE**
[72] LAMONTAGNE, YVAN, CA
[72] MINVILLE, ETIENNE, CA
[72] PERRON, PIERRE, CA
[73] 9372-2882 QUEBEC INC., CA
[85] 2015-06-12
[86] 2014-06-17 (PCT/CA2014/050571)
[87] (WO2015/192199)

[11] **2,895,249**
[13] C

[51] **Int.Cl. A61K 31/047 (2006.01) A61K
31/185 (2006.01) A61P 1/02 (2006.01)
A61P 43/00 (2006.01)**
[25] EN
[54] **TOPICAL ORAL COMPOSITION
FOR ALLEVIATING DRY MOUTH
SYMPTOMS AND FOR TREATING
MOUTH ULCERS**
[54] **COMPOSITION ORALE TOPIQUE
POUR ATTENUER LES
SYMPTOMES DE BOUCHE
SECHE ET POUR TRAITER DES
ULCERATIONS BUCCALES**
[72] SHIGEKI, MORI, CH
[73] SUNSTAR SUISSE SA, CH
[85] 2015-06-16
[86] 2013-12-10 (PCT/EP2013/076080)
[87] (WO2014/095489)
[30] EP (12197696.3) 2012-12-18

[11] **2,896,312**
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) B09B
1/00 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR
LANDFILL GAS WELL
MONITORING AND CONTROL**
[54] **DISPOSITIFS ET PROCEDES
POUR LA SURVEILLANCE ET LA
COMMANDE DE PUIITS DE GAZ
D'ENFOUISSEMENT**
[72] FISCHER, DAVID A., US
[72] MIODUSZEWSKI, DAVID, US
[73] Q.E.D. ENVIRONMENTAL
SYSTEMS, INC., US
[85] 2015-06-23
[86] 2013-12-23 (PCT/US2013/077508)
[87] (WO2014/107370)
[30] US (61/748,370) 2013-01-02
[30] US (13/794,242) 2013-03-11

[11] **2,896,655**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N
5/0735 (2010.01)**
[25] EN
[54] **CULTURING OF HUMAN
EMBRYONIC STEM CELLS AT
THE AIR-LIQUID INTERFACE
FOR DIFFERENTIATION INTO
PANCREATIC ENDOCRINE
CELLS**
[54] **CULTURE DE CELLULES
SOUCHES EMBRYONNAIRES
HUMAINES A L'INTERFACE AIR-
LIQUIDE EN VUE DE LA
DIFFERENCIATION EN
CELLULES ENDOCRINES
PANCREATIQUES**
[72] REZANIA, ALIREZA, US
[73] JANSSEN BIOTECH, INC., US
[85] 2015-06-26
[86] 2013-12-18 (PCT/US2013/075939)
[87] (WO2014/105543)
[30] US (61/747,662) 2012-12-31

[11] **2,896,658**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N
5/0735 (2010.01)**
[25] EN
[54] **DIFFERENTIATION OF HUMAN
EMBRYONIC STEM CELLS INTO
PANCREATIC ENDOCRINE
CELLS USING HB9 REGULATORS**
[54] **DIFFERENCIATION DE
CELLULES SOUCHES
EMBRYONNAIRES HUMAINES
EN CELLULES ENDOCRINES
PANCREATIQUES AU MOYEN DE
REGULATEURS DE HB9**
[72] REZANIA, ALIREZA, US
[73] JANSSEN BIOTECH, INC., US
[85] 2015-06-26
[86] 2013-12-18 (PCT/US2013/075959)
[87] (WO2014/105546)
[30] US (61/747,672) 2012-12-31

[11] **2,897,117**
[13] C

[51] **Int.Cl. G01N 1/38 (2006.01) G01N
35/00 (2006.01)**
[25] EN
[54] **AUTOMATED SAMPLE
PROCESSING, FLUID
DISTRIBUTION, AND
SEDIMENTATION ASSAY**
[54] **TRAITEMENT
D'ECHANTILLONS,
REPARTITION DE FLUIDES ET
DOSAGE A SEDIMENTATION
AUTOMATISES**
[72] SCHAFF, ULRICH, US
[72] TOMKINS-TINCH, CHRISTOPHER,
US
[72] SAUERS, JASON, US
[72] SOMMER, GREG, US
[73] SANDSTONE DIAGNOSTICS, INC.,
US
[85] 2015-07-02
[86] 2014-02-06 (PCT/US2014/015170)
[87] (WO2014/124179)
[30] US (61/761,891) 2013-02-07

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[11] **2,897,607**
[13] C

[51] **Int.Cl. E06B 9/174 (2006.01) E06B 9/50 (2006.01)**
[25] EN
[54] **MOUNTING SYSTEM FOR AN ARCHITECTURAL COVERING AND AN END BEARING FOR THE MOUNTING SYSTEM**
[54] **SYSTEME DE MONTAGE POUR ELEMENT DE COUVERTURE ARCHITECTURALE ET PALIER D'EXTREMITE POUR LE SYSTEME DE MONTAGE**
[72] BOHLEN, JORG, NL
[72] KOOP, LARS, NL
[73] HUNTER DOUGLAS INDUSTRIES B.V., NL
[85] 2015-07-08
[86] 2014-01-02 (PCT/NL2014/000002)
[87] (WO2014/109635)
[30] NL (1039990) 2013-01-09
[30] NL (1040194) 2013-05-02

[11] **2,897,879**
[13] C

[51] **Int.Cl. H01M 8/0282 (2016.01) H01M 8/0286 (2016.01) H01M 8/1246 (2016.01)**
[25] EN
[54] **GASKET FOR FUEL CELLS**
[54] **JOINT D'ETANCHEITE POUR PILES A COMBUSTIBLE**
[72] RAUTANEN, MARKUS, FI
[72] HOYES, JOHN, GB
[72] HIMANEN, OLLI, FI
[72] KIVIAHO, JARI, FI
[73] FLEXITALIC INVESTMENTS, INC., US
[85] 2015-07-10
[86] 2014-01-21 (PCT/GB2014/050161)
[87] (WO2014/111735)
[30] GB (1301037.6) 2013-01-21
[30] GB (1317549.2) 2013-10-03

[11] **2,897,973**
[13] C

[51] **Int.Cl. C25D 3/06 (2006.01) C25D 5/00 (2006.01) C25D 19/00 (2006.01) C25D 21/18 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD OF MAINTAINING TRIVALENT CHROMIUM BATH PLATING EFFICIENCY**
[54] **APPAREIL ET PROCEDE DE MAINTIEN DE L'EFFICACITE DE PLACAGE DE BAIN DE CHROME TRIVALENT**
[72] BOKISA, GEORGE, US
[73] COVENTYA, INC., US
[85] 2015-07-10
[86] 2014-01-10 (PCT/US2014/011108)
[87] (WO2014/110416)
[30] US (61/750,974) 2013-01-10

[11] **2,898,643**
[13] C

[51] **Int.Cl. B65B 55/02 (2006.01) A23L 5/20 (2016.01) A23L 3/40 (2006.01) B65B 55/18 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING A PACKED FOOD PRODUCT**
[54] **PROCEDE DE PRODUCTION D'UN PRODUIT ALIMENTAIRE EMBALLE**
[72] SCHMIDT, SIEGFRIED, DE
[73] MARS INCORPORATED, US
[85] 2015-07-20
[86] 2014-01-31 (PCT/EP2014/051903)
[87] (WO2014/122072)
[30] EP (13153983.5) 2013-02-05

[11] **2,898,675**
[13] C

[51] **Int.Cl. C07C 45/49 (2006.01)**
[25] EN
[54] **PRODUCTION OF PARAPROPYL BENZALDEHYDE**
[54] **PRODUCTION DE PARAPROPYL BENZALDEHYDE**
[72] WU, TSE-CHONG, US
[73] ALBEMARLE CORPORATION, US
[85] 2015-07-17
[86] 2014-03-13 (PCT/US2014/026096)
[87] (WO2014/151608)
[30] US (61/791,393) 2013-03-15

[11] **2,898,905**
[13] C

[51] **Int.Cl. A21D 15/08 (2006.01) A23P 20/10 (2016.01) A23G 3/36 (2006.01) A23L 3/37 (2006.01) A23G 3/54 (2006.01)**
[25] EN
[54] **MOISTURE-RESISTANT EDIBLE FOOD COATING AND METHOD FOR APPLYING THE SAME**
[54] **ENROBAGE ALIMENTAIRE COMESTIBLE RESISTANT A L'HUMIDITE ET SON PROCEDE D'APPLICATION**
[72] TORRES SAN JUAN, JULIO ALBERTO, US
[72] KUTNER, JANE LOUISE, US
[72] JONES, MILES ELTON, US
[72] GONZALEZ JUAREZ, JUAN GABRIEL, MX
[72] ALANIS VILLARREAL, ROLANDO JESUS, MX
[73] DAWN FOOD PRODUCTS, INC., US
[85] 2015-07-21
[86] 2014-01-22 (PCT/US2014/012523)
[87] (WO2014/116686)
[30] US (61/755,130) 2013-01-22

[11] **2,899,159**
[13] C

[51] **Int.Cl. A62B 35/00 (2006.01) A62B 35/04 (2006.01)**
[25] EN
[54] **ENERGY ABSORBER ASSEMBLY AND COMPONENTS THEREOF**
[54] **ENSEMBLE D'ABSORBEUR D'ENERGIE ET SES COMPOSANTS**
[72] CASEBOLT, SCOTT C., US
[72] SCHLANGEN, DAVID A., US
[73] D B INDUSTRIES, LLC, US
[85] 2015-07-23
[86] 2014-01-02 (PCT/US2014/010060)
[87] (WO2014/123642)
[30] US (61/762,482) 2013-02-08
[30] US (13/826,876) 2013-03-14

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[11] **2,899,283**
[13] C

[51] **Int.Cl. B03B 1/04 (2006.01) B03B 7/00 (2006.01) B03B 9/00 (2006.01) B03C 1/01 (2006.01) B03C 1/02 (2006.01) B03C 1/30 (2006.01) B03D 1/08 (2006.01)**

[25] EN

[54] **METHOD FOR SEPARATING A DEFINED MINERAL PHASE OF VALUE FROM A GROUND ORE**

[54] **PROCEDE DE SEPARATION D'UNE PHASE DE MATIERE MINERALE DEFINIE D'UN MINERAL BROYE**

[72] HARTMANN, WERNER, DE

[72] STARK, THERESA, DE

[72] WOLFRUM, SONJA, DE

[72] WOTRUBA, HERMANN, DE

[73] SIEMENS AKTIENGESELLSCHAFT, DE

[85] 2015-07-24

[86] 2014-12-15 (PCT/EP2014/077692)

[87] (WO2015/091324)

[30] DE (10 2013 226 845.9) 2013-12-20

[30] DE (10 2014 200 415.2) 2014-01-13

[11] **2,899,367**
[13] C

[51] **Int.Cl. A23F 5/24 (2006.01) A23F 5/26 (2006.01) A23F 5/28 (2006.01) A23F 5/50 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PRODUCTION OF A LIQUID COFFEE CONCENTRATE**

[54] **PROCEDE DE PRODUCTION D'UN CONCENTRE DE CAFE LIQUIDE**

[72] HEIJMAN, GERTJAN, NL

[72] BOSMA, HARKE JAN, NL

[73] KONINKLIJKE DOUWE EGBERTS B.V., NL

[85] 2015-07-24

[86] 2014-02-05 (PCT/NL2014/050067)

[87] (WO2014/123412)

[30] EP (13154082.5) 2013-02-05

[11] **2,900,348**
[13] C

[51] **Int.Cl. C07D 307/80 (2006.01) A61K 31/343 (2006.01) A61P 3/10 (2006.01) C07D 313/10 (2006.01)**

[25] EN

[54] **TRICYCLIC COMPOUND AND USE THEREOF**

[54] **COMPOSE TRICYCLIQUE ET SON UTILISATION**

[72] LEE, JU YOUNG, KR

[72] LEE, JEONG A, KR

[72] AHN, JAESEUNG, KR

[72] RYU, JE HO, KR

[72] HAN, MIN-YOUNG, KR

[72] YOO, TAEKYUNG, KR

[72] SA, JOON HO, KR

[72] KIM, JAE-SUN, KR

[72] SEO, JEONGMIN, KR

[73] TIUMBIO CO., LTD., KR

[85] 2015-08-05

[86] 2014-02-28 (PCT/KR2014/001686)

[87] (WO2014/133361)

[30] KR (10-2013-0022038) 2013-02-28

[30] KR (10-2013-0109840) 2013-09-12

[11] **2,900,433**
[13] C

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/5355 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **BACE1 INHIBITORS**

[54] **INHIBITEURS DE BACE1**

[72] HILPERT, HANS, CH

[72] HUMM, ROLAND, DE

[72] MUSER, THORSTEN, DE

[72] SCHNIDER, CHRISTIAN, CH

[72] WERMUTH, ROGER, CH

[72] WOLTERING, THOMAS, DE

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

[73] SIENA BIOTECH S.P.A., IT

[85] 2015-08-06

[86] 2014-04-08 (PCT/EP2014/056985)

[87] (WO2014/166906)

[30] EP (13163430.5) 2013-04-11

[11] **2,900,434**
[13] C

[51] **Int.Cl. B01D 53/58 (2006.01) B01D 53/86 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR REMOVING AMMONIA FROM A VENT GAS STREAM OF A UREA PLANT**

[54] **PROCEDE ET SYSTEME D'ELIMINATION DE L'AMMONIAC D'UN COURANT GAZEUX D'EVENT D'UNE USINE DUREE**

[72] CARLESSI, LINO, IT

[72] BRUNO, LORENZO, IT

[72] GALATI, ROSARIO, IT

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

[85] 2015-08-06

[86] 2014-02-25 (PCT/IB2014/059242)

[87] (WO2014/128682)

[30] IT (MI2013A000268) 2013-02-25

[11] **2,900,851**
[13] C

[51] **Int.Cl. A61L 27/36 (2006.01) A61L 27/50 (2006.01)**

[25] EN

[54] **ECM IMPLANT COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS D'IMPLANT ECM ET PROCEDES**

[72] CHUTKA, MICHELLE, US

[72] HILES, MICHAEL C., US

[73] COOK BIOTECH INCORPORATED, US

[85] 2015-08-10

[86] 2014-03-14 (PCT/US2014/028750)

[87] (WO2014/144370)

[30] US (61/802,113) 2013-03-15

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[11] **2,900,961**
[13] C

[51] **Int.Cl. C22F 1/053 (2006.01) C22C 21/10 (2006.01)**
[25] EN
[54] **METHODS FOR ARTIFICIALLY AGING ALUMINUM-ZINC-MAGNESIUM ALLOYS, AND PRODUCTS BASED ON THE SAME**
[54] **PROCEDES DE VIEILLISSEMENT ARTIFICIEL D'ALLIAGES EN ALUMINIUM-ZINC-MAGNESIUM ET PRODUITS BASES SUR CEUX-CI**
[72] YAN, XINYAN, US
[72] ZHANG, WENPING, US
[72] CLARK, DANA, US
[72] BRYANT, JAMES DANIEL, US
[72] LIN, JEN, US
[73] ALCOA USA CORP., US
[85] 2015-08-11
[86] 2014-03-12 (PCT/US2014/024576)
[87] (WO2014/159647)
[30] US (13/827,918) 2013-03-14

[11] **2,901,008**
[13] C

[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC HEART VALVE DEVICES, PROSTHETIC MITRAL VALVES AND ASSOCIATED SYSTEMS AND METHODS**
[54] **DISPOSITIFS DE VALVULE CARDIAQUE PROTHETIQUE, VALVULES MITRALES PROTHETIQUES, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] MORRISS, JOHN, US
[72] MCLEAN, MATT, US
[72] BENSING, MAUREEN, US
[72] DUERI, JEAN-PIERRE, US
[72] GIFFORD, HANSON, US
[72] MIYASHIRO, KATIE, US
[72] SCOTT, DAVID JERRY, US
[72] TRASK, DAVID, US
[72] VALLEY, KIRSTEN, US
[73] TWELVE, INC., US
[85] 2015-08-11
[86] 2014-03-14 (PCT/US2014/029549)
[87] (WO2014/144937)
[30] US (13/842,785) 2013-03-15
[30] US (13/946,552) 2013-07-19
[30] US (61/898,345) 2013-10-31

[11] **2,901,535**
[13] C

[51] **Int.Cl. C12N 15/10 (2006.01)**
[25] EN
[54] **A METHOD FOR PRODUCING A POLYPEPTIDE DISPLAYED ON A PHAGE DISPLAY SYSTEM CONJUGATED TO A MOLECULAR SCAFFOLD**
[54] **PROCEDE DE PRODUCTION D'UN POLYPEPTIDE AFFICHE DANS UN SYSTEME DE VISUALISATION DE PHAGES CONJUGUE A UN ECHAFAUDAGE MOLECULAIRE**
[72] STACE, CATHERINE, GB
[72] WALKER, EDWARD, GB
[73] BICYCLERD LIMITED, GB
[85] 2015-08-17
[86] 2014-03-14 (PCT/EP2014/055204)
[87] (WO2014/140342)
[30] US (13/832,526) 2013-03-15

[11] **2,901,804**
[13] C

[51] **Int.Cl. G06Q 50/26 (2012.01) G06Q 50/30 (2012.01) G06K 9/18 (2006.01)**
[25] EN
[54] **TAX DOCUMENT IMAGING AND PROCESSING**
[54] **MISE EN IMAGE ET TRAITEMENT DE DOCUMENT D'IMPOSITION**
[72] HUANG, NANKUN, US
[72] EFTEKHARI, AMIR, US
[72] HOWE, CAROL, US
[72] TIFFORD, ALAN, US
[72] LUDWIG, JEFFREY, US
[73] INTUIT INC., US
[85] 2015-08-19
[86] 2013-05-10 (PCT/US2013/040620)
[87] (WO2014/133569)
[30] US (13/781,571) 2013-02-28

[11] **2,902,382**
[13] C

[51] **Int.Cl. A61L 15/22 (2006.01) A61F 13/00 (2006.01)**
[25] EN
[54] **SKIN SUBSTITUTE / WOUND DRESSING WITH VARIABLE PORE SIZES**
[54] **SUBSTITUT DE PEAU/PANSEMENT POUR PLAIES AYANT DES DIMENSIONS DE PORE VARIABLES**
[72] WOODROOF, E. AUBREY, US
[73] PERMEADERM, INC., US
[85] 2015-08-24
[86] 2014-03-05 (PCT/US2014/020922)
[87] (WO2014/138308)
[30] US (61/773,707) 2013-03-06
[30] US (13/897,430) 2013-05-19

[11] **2,902,556**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/167 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICES AND METHODS FOR DRUG DELIVERY**
[54] **DISPOSITIFS DE LIBERATION DE MEDICAMENT ET PROCEDES DE LIBERATION DE MEDICAMENT**
[72] LEE, HEEJIN, US
[73] TARIS BIOMEDICAL LLC, US
[85] 2015-08-25
[86] 2014-03-14 (PCT/US2014/028317)
[87] (WO2014/144066)
[30] US (61/794,677) 2013-03-15

[11] **2,902,803**
[13] C

[51] **Int.Cl. H04L 27/38 (2006.01)**
[25] EN
[54] **TELEMETRY METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TELEMESURE**
[72] THURSBY, JONATHAN, GB
[72] EADALA, SUMANTH, GB
[73] E.V. OFFSHORE LIMITED, GB
[85] 2015-08-27
[86] 2014-02-28 (PCT/IB2014/059341)
[87] (WO2014/132238)
[30] GB (1303623.1) 2013-02-28

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[11] **2,902,824**
[13] C

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/54 (2006.01) C12P 13/00 (2006.01) C12P 17/18 (2006.01)**

[25] EN

[54] **ENGINEERED TRANSAMINASE POLYPEPTIDES FOR INDUSTRIAL BIOCATALYSIS**

[54] **POLYPEPTIDES DE TRANSAMINASE MODIFIES POUR BIOCATALYSE INDUSTRIELLE**

[72] QUINTANAR-AUDELO, MARTINA, SG

[72] EBERHARD, ELLEN, US

[72] NAZOR, JOVANA, US

[72] SMITH, DEREK, SG

[72] WANG, CUIXIA, SG

[73] CODEXIS, INC., US

[85] 2015-08-27

[86] 2014-02-24 (PCT/US2014/018005)

[87] (WO2014/133960)

[30] US (61/770,814) 2013-02-28

[11] **2,902,934**
[13] C

[51] **Int.Cl. H01M 8/0637 (2016.01) H01M 8/0668 (2016.01) H01M 8/14 (2006.01)**

[25] EN

[54] **INTEGRATED POWER GENERATION AND CARBON CAPTURE USING FUEL CELLS**

[54] **GENERATION D'ENERGIE INTEGREE ET CAPTURE DE CARBONE A L'AIDE DE PILES A COMBUSTIBLE**

[72] BERLOWITZ, PAUL J., US

[72] BARCKHOLTZ, TIMOTHY ANDREW, US

[72] HERSHKOWITZ, FRANK, US

[72] FALDI, ALESSANDRO, US

[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US

[85] 2015-08-27

[86] 2014-03-13 (PCT/US2014/025173)

[87] (WO2014/151182)

[30] US (61/787,697) 2013-03-15

[30] US (61/787,879) 2013-03-15

[30] US (61/787,587) 2013-03-15

[30] US (61/788,628) 2013-03-15

[30] US (61/884,605) 2013-09-30

[30] US (61/884,376) 2013-09-30

[30] US (61/884,545) 2013-09-30

[30] US (61/884,635) 2013-09-30

[30] US (61/884,565) 2013-09-30

[30] US (61/884,586) 2013-09-30

[30] US (61/889,757) 2013-10-11

[11] **2,903,082**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4709 (2006.01) A61K 31/496 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 409/04 (2006.01)**

[25] EN

[54] **QUINOLINE SULFONYL DERIVATIVES AND USES THEREOF**

[54] **DERIVES DE LA SULFONYLE QUINOLEINE ET APPLICATIONS ASSOCIEES**

[72] LEE, HOYUN, CA

[72] SOLOMON, VISWAS RAJA, IN

[72] PUNDIR, SHEETAL, CA

[73] HEALTH SCIENCES NORTH RESEARCH INSTITUTE, CA

[85] 2015-08-31

[86] 2014-02-18 (PCT/CA2014/000121)

[87] (WO2014/134705)

[30] US (61/772,032) 2013-03-04

[11] **2,903,613**
[13] C

[51] **Int.Cl. B66F 7/06 (2006.01) B66F 17/00 (2006.01)**

[25] EN

[54] **SAFETY MECHANISM FOR SCISSORS LIFT ASSEMBLY**

[54] **MECANISME DE SECURITE POUR ENSEMBLE DE SOULEVEMENT EN CISEAUX**

[72] YUSTUS, JOE, US

[73] KONECRANES GLOBAL CORPORATION, FI

[85] 2015-09-02

[86] 2014-03-11 (PCT/IB2014/000297)

[87] (WO2014/140728)

[30] US (13/797,853) 2013-03-12

[11] **2,903,870**
[13] C

[51] **Int.Cl. G09F 9/302 (2006.01) G06F 3/14 (2006.01) G09F 9/33 (2006.01) G09F 9/37 (2006.01) H01L 25/10 (2006.01) H05K 5/00 (2006.01)**

[25] EN

[54] **DISPLAY DEVICES FOR ADVERTISING**

[54] **DISPOSITIF D'AFFICHAGE POUR PUBLICITE**

[72] JUREWICZ, WILLIAM JEFFERSON, US

[72] SQUIRES, JAMES ALLEN, US

[72] HAROLDSON, BARRETT DAVID, US

[72] DUARTE, LAWRENCE ALEXANDER, US

[72] HUESKE, JEREMIAH MATTHEW, US

[72] KWONG, LO CHI, US

[72] ROSKE, SHAWN, US

[72] OBELLEIRO, JULIO, US

[72] PERKINS, MERVIN, US

[72] WEST, RYAN, US

[72] REVELAS, PETER, US

[72] KIRSCHNER, JONATHAN, US

[72] MARCHBANKS, LISA R., US

[72] PRESTEN, MARJORIE, US

[72] BROWN, KATHERINE MARIE, US

[72] BILLIG, JEREMY D., US

[72] BRYANT, GREGORY OREN, US

[73] THE COCA-COLA COMPANY, US

[85] 2015-09-02

[86] 2014-03-14 (PCT/US2014/029573)

[87] (WO2014/144956)

[30] US (61/800,611) 2013-03-15

[11] **2,904,379**
[13] C

[51] **Int.Cl. G01F 1/84 (2006.01) F17C 7/02 (2006.01) F25D 3/10 (2006.01)**

[25] EN

[54] **COOLING OF CRYOGENIC METERS SENSING REVERSE FLOW**

[54] **REFROIDISSEMENT DE COMPTEURS CRYOGENIQUES DETECTANT UN FLUX INVERSE**

[72] DRUBE, PAUL, US

[73] CHART INC., US

[85] 2015-09-04

[86] 2014-03-13 (PCT/US2014/026520)

[87] (WO2014/151829)

[30] US (61/794,615) 2013-03-15

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[11] **2,904,547**
[13] C

[51] **Int.Cl. E04B 1/62 (2006.01) E02D 31/00 (2006.01) E04B 1/92 (2006.01) E04H 9/00 (2006.01) F16L 59/02 (2006.01) F24F 7/00 (2021.01)**

[25] EN

[54] **RADON GAS MITIGATION SYSTEMS AND APPARATUS**

[54] **SYSTEMES ET APPAREIL POUR REDUIRE LE GAZ RADON**

[72] FOX, RANDI, CA

[73] TERRA VENT SYSTEMS INC., CA

[85] 2015-09-08

[86] 2014-03-07 (PCT/CA2014/050198)

[87] (WO2014/134740)

[30] US (61/775,203) 2013-03-08

[11] **2,905,625**
[13] C

[51] **Int.Cl. D21H 17/49 (2006.01) D21H 17/47 (2006.01) D21H 17/54 (2006.01) D21H 17/56 (2006.01) D21H 21/18 (2006.01) D21H 21/20 (2006.01)**

[25] EN

[54] **CELLULOSIC COMPOSITION AND METHOD OF MAKING**

[54] **COMPOSITION CELLULOSIQUE ET METHODE DE FABRICATION**

[72] LU, CHEN, US

[72] ROSENCRANCE, SCOTT, US

[72] GRIGORIEV, VLADIMIR, US

[73] KEMIRA OYJ, FI

[85] 2015-09-11

[86] 2014-03-14 (PCT/IB2014/000756)

[87] (WO2014/140799)

[30] US (61/782,194) 2013-03-14

[30] US (14/208,486) 2014-03-13

[11] **2,906,359**
[13] C

[51] **Int.Cl. G01N 27/82 (2006.01) D07B 1/14 (2006.01)**

[25] EN

[54] **SYNTHETIC ROPE, FIBER OPTIC CABLE AND METHOD FOR NON-DESTRUCTIVE TESTING THEREOF**

[54] **CORDE SYNTHETIQUE, CABLE A FIBRE OPTIQUE ET PROCEDE D'ESSAIS NON DESTRUCTIFS DE CEUX-CI**

[72] HUNTLEY, ELIZABETH W., US

[72] HUNTLEY, MARK B., US

[72] WHITEHILL, A. SIMEON, US

[73] WHITEHILL MANUFACTURING CORPORATION, US

[85] 2015-09-14

[86] 2014-02-18 (PCT/US2014/016884)

[87] (WO2014/143503)

[30] US (13/838,509) 2013-03-15

[11] **2,906,378**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/24 (2006.01) A61K 31/65 (2006.01) A61P 17/00 (2006.01) A61P 17/10 (2006.01)**

[25] EN

[54] **CONTROLLED RELEASE PHARMACEUTICAL DOSAGE FORMS**

[54] **FORMES GALENIQUES PHARMACEUTIQUES A LIBERATION CONTROLEE**

[72] CHANDRAN, SAJEEV, IN

[72] KULKARNI, SHIRISHKUMAR, IN

[72] BHUTADA, PRAVIN MEGHRAJJI, IN

[72] DESHMUKH, ASHISH ASHOKRAO, IN

[72] BAKAN, DOUGLAS, US

[72] WORTZMAN, MITCHELL, US

[73] MEDICIS PHARMACEUTICAL CORPORATION, US

[85] 2015-09-14

[86] 2014-03-04 (PCT/US2014/020251)

[87] (WO2014/149674)

[30] IN (304/KOL/2013) 2013-03-15

[30] US (13/890,173) 2013-05-08

[11] **2,907,079**
[13] C

[51] **Int.Cl. A61K 31/19 (2006.01) A61K 31/7042 (2006.01) A61P 19/06 (2006.01)**

[25] EN

[54] **COMBINATION OF CANAGLIFLOZIN AND PROBENECID FOR THE TREATMENT OF HYPERURICEMIA**

[54] **COMBINAISON DE CANAGLIFLOZINE ET DE PROBENECIDE POUR LE TRAITEMENT DE L'HYPERURICEMIE**

[72] ROTHENBERG, PAUL, US

[72] WAYS, DOUGLAS K., US

[73] JANSSEN PHARMACEUTICA NV, BE

[85] 2015-09-15

[86] 2014-03-06 (PCT/US2014/020958)

[87] (WO2014/149789)

[30] US (61/786,738) 2013-03-15

[11] **2,907,738**
[13] C

[51] **Int.Cl. A43C 1/06 (2006.01) F16G 11/12 (2006.01)**

[25] EN

[54] **CLAMPING DEVICE**

[54] **DISPOSITIF DE SERRAGE**

[72] PIVA, GIANNI, IT

[72] MANZATO, ALESSANDRO, IT

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

[85] 2015-09-18

[86] 2014-03-26 (PCT/EP2014/056065)

[87] (WO2014/166743)

[30] IT (TV2013A000045) 2013-04-09

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[11] **2,907,759**
[13] C

[51] **Int.Cl. C07C 51/42 (2006.01) C07C 51/43 (2006.01) C07C 51/47 (2006.01) C07C 59/64 (2006.01)**

[25] EN

[54] **METHOD FOR EXTRACTING FERULIC ACID AND/OR ITS SALTS**

[54] **PROCEDE D'EXTRACTION D'ACIDE FERULIQUE OU DE SES SELS**

[72] ASAFF ARANCIBIA, JORGE SELIM, MX

[72] ACEVES DIEZ, ANGEL EMILIO, MX

[72] HERRERA HERRERA, RUBEN, MX

[72] ALEJO CASTILLO, MARIA LUCIA, MX

[73] LABORATORIOS MINKAB, S.A. DE C.V., MX

[85] 2015-01-22

[86] 2014-11-20 (PCT/MX2014/000186)

[87] (WO2016/085317)

[11] **2,907,796**
[13] C

[51] **Int.Cl. A63B 21/00 (2006.01) A63B 23/18 (2006.01)**

[25] EN

[54] **THERAPEUTIC DEVICE FOR THE TREATMENT OF RESPIRATORY ILLNESSES**

[54] **APPAREIL THERAPEUTIQUE POUR LE TRAITEMENT DE MALADIES DES VOIES RESPIRATOIRES**

[72] CEGLA, ULRICH, DE

[73] R. CEGLA GMBH & CO. KG, DE

[85] 2015-09-22

[86] 2014-03-19 (PCT/EP2014/055479)

[87] (WO2014/154541)

[30] EP (13161014.9) 2013-03-26

[11] **2,907,911**
[13] C

[51] **Int.Cl. G01N 1/28 (2006.01) G01N 1/10 (2006.01) G01N 1/20 (2006.01) G01N 33/34 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR SAMPLING, PREPARING AND ANALYSING A SAMPLE**

[54] **DISPOSITIF ET PROCEDE D'ECHANTILLONNAGE, DE PREPARATION ET D'ANALYSE D'UN ECHANTILLON**

[72] ANDERSSON, NICLAS, SE

[72] SKALEN, BENGT ANDERS, SE

[72] NORDER, STIG, SE

[73] BTG INSTRUMENTS AB, SE

[85] 2015-09-22

[86] 2014-04-02 (PCT/SE2014/050387)

[87] (WO2014/163562)

[30] SE (1350407-1) 2013-04-02

[11] **2,908,101**
[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/713 (2006.01) C07H 21/02 (2006.01) A61P 27/02 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **MODIFIED TGF-BETA OLIGONUCLEOTIDE FOR USE IN A METHOD OF PREVENTING AND/OR TREATING AN OPHTHALMIC DISEASE**

[54] **OLIGONUCLEOTIDE A ACTIVITE TGF-BETA MODIFIE POUR UTILISATION DANS UNE METHODE DE PREVENTION ET/OU DE TRAITEMENT D'UNE MALADIE OPHTALMIQUE**

[72] JASCHINSKI, FRANK, DE

[72] JANICOT, MICHEL, BE

[72] UHLMANN, EUGEN, DE

[72] LEO, EUGEN, DE

[73] ISARNA THERAPEUTICS GMBH, DE

[85] 2015-09-25

[86] 2014-03-27 (PCT/EP2014/056222)

[87] (WO2014/154836)

[30] EP (13161474.5) 2013-03-27

[30] EP (13173078.0) 2013-06-20

[30] EP (13199826.2) 2013-12-30

[30] EP (13199831.2) 2013-12-30

[30] EP (13199838.7) 2013-12-30

[11] **2,909,211**
[13] C

[51] **Int.Cl. A23L 33/17 (2016.01) A23K 20/142 (2016.01) A23K 20/158 (2016.01) A23K 20/174 (2016.01) A23L 33/10 (2016.01) A23L 33/115 (2016.01) A23L 33/15 (2016.01) A23C 9/152 (2006.01) A23L 2/66 (2006.01) A61K 38/17 (2006.01) A61N 1/36 (2006.01) A61P 21/06 (2006.01) A63B 21/00 (2006.01)**

[25] EN

[54] **USE OF WHEY PROTEIN IN COMBINATION WITH ELECTRICAL MUSCLE STIMULATION**

[54] **UTILISATION DE PROTEINE DU PETIT-LAIT EN COMBINAISON AVEC UNE STIMULATION ELECTRIQUE DE MUSCLE**

[72] ARIGONI, FABRIZIO, JP

[72] BREUILLE, DENIS, CH

[72] MORITANI, TOSHIO, JP

[72] OFFORD CAVIN, ELIZABETH, CH

[72] VINYES PARES, GERARD, JP

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

[85] 2015-10-05

[86] 2014-04-14 (PCT/EP2014/057474)

[87] (WO2014/170245)

[30] EP (13163687.0) 2013-04-15

[11] **2,909,517**
[13] C

[51] **Int.Cl. H04N 21/234 (2011.01) H04N 21/44 (2011.01) H04N 21/81 (2011.01)**

[25] EN

[54] **LIVE AD PROCESSING ENGINE SERVICE**

[54] **SERVICE DE MOTEUR DE TRAITEMENT DE PUBLICITE EN DIRECT**

[72] MCGOWAN, ALBERT JOHN, US

[72] MAULTSBY, NICHOLAS, US

[72] HUFFMAN, NIKO T.J., US

[72] MOOSMAN, CHRISTIAN D., US

[73] BRIGHTCOVE INC., US

[85] 2015-10-14

[86] 2014-04-03 (PCT/US2014/032850)

[87] (WO2014/176014)

[30] US (61/815,111) 2013-04-23

[30] US (14/069,961) 2013-11-01

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[11] **2,910,137**
[13] C

[51] **Int.Cl. G01N 1/02 (2006.01) G01N 1/26 (2006.01)**
[25] EN
[54] **COMPOUND SAMPLING SYSTEM AND METHOD FOR SAMPLING A COMPOUND USING SAME**
[54] **SYSTEME D'ECHANTILLONNAGE DE COMPOSITE ET PROCEDE POUR ECHANTILLONNER UN COMPOSITE L'UTILISANT**
[72] POTVIN, FREDERIC, CA
[73] MORIN ENERTECH INC., CA
[85] 2015-10-21
[86] 2014-04-22 (PCT/CA2014/050391)
[87] (WO2014/172790)
[30] US (61/814,624) 2013-04-22

[11] **2,910,473**
[13] C

[51] **Int.Cl. G01N 24/08 (2006.01) G01R 33/465 (2006.01) C07D 209/12 (2006.01) C07D 231/56 (2006.01) C07D 401/12 (2006.01)**
[25] EN
[54] **NUCLEAR MAGNETIC RESONANCE IMPLEMENTED SYNTHETIC INDOLE AND INDAZOLE CANNABINOID DETECTION, IDENTIFICATION, AND QUANTIFICATION**
[54] **DETECTION, IDENTIFICATION ET QUANTIFICATION DE CANNABINOIDE D'INDAZOLE ET D'INDOLE SYNTHETIQUE IMPLEMENTEES PAR RESONANCE MAGNETIQUE NUCLEAIRE**
[72] HUANG, LING, US
[72] MARINO, MICHAEL ANTHONY, US
[72] VOYER, BRANDY, US
[73] HOFSTRA UNIVERSITY, US
[85] 2015-10-26
[86] 2014-04-25 (PCT/US2014/035522)
[87] (WO2014/176542)
[30] US (61/816,325) 2013-04-26

[11] **2,910,548**
[13] C

[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING SYSTEM COMPRISING A DELIVERY ENHANCING COMPOUND SOURCE AND A MEDICAMENT SOURCE**
[54] **SYSTEME PRODUISANT UN AEROSOL COMPRENANT UNE SOURCE DE COMPOSE AMELIORANT LA DISTRIBUTION ET UNE SOURCE DE MEDICAMENT**
[72] MALGAT, ALEXANDRE, CH
[72] WALLER, JUDITH, CH
[73] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2015-10-28
[86] 2014-05-19 (PCT/EP2014/060204)
[87] (WO2014/187763)
[30] EP (13168613.1) 2013-05-21

[11] **2,910,744**
[13] C

[51] **Int.Cl. C09D 11/50 (2014.01)**
[25] FR
[54] **THERMOCHROMIC INK COMPOSITION**
[54] **COMPOSITION D'ENCRE THERMOCHROMIQUE**
[72] PHILIPPE, ERIC, FR
[72] BES, LAURENCE, FR
[73] ILLINOIS TOOL WORKS INC., US
[85] 2015-10-27
[86] 2014-05-12 (PCT/FR2014/051099)
[87] (WO2014/184482)
[30] FR (1354254) 2013-05-13

[11] **2,911,173**
[13] C

[51] **Int.Cl. B63B 21/50 (2006.01)**
[25] EN
[54] **SUBSEA REMOTELY OPERATED CHAIN TENSIONING AND SLACKING SYSTEM**
[54] **SYSTEME SOUS-MARIN DE TENSION ET DE MOU DE CHAINE ACTIONNE A DISTANCE**
[72] HOVDE, GEIR OLAV, NO
[73] APL TECHNOLOGY AS, NO
[85] 2015-11-02
[86] 2014-04-29 (PCT/NO2014/000032)
[87] (WO2014/178721)
[30] NO (20130615) 2013-05-02

[11] **2,911,251**
[13] C

[51] **Int.Cl. A61M 5/14 (2006.01) A61G 12/00 (2006.01) A61M 5/168 (2006.01)**
[25] EN
[54] **INFUSION SYSTEM CONFIGURED FOR TRANSFER OF DATA**
[54] **SYSTEME DE PERFUSION CONFIGURE POUR TRANSFERER DES DONNEES**
[72] HALBERT, DONALD, US
[72] BOLLISH, STEPHEN, US
[72] VANDERVEEN, TIMOTHY W., US
[73] CAREFUSION 303, INC., US
[85] 2015-11-02
[86] 2014-06-24 (PCT/US2014/043943)
[87] (WO2014/210055)
[30] US (13/927,847) 2013-06-26

[11] **2,912,133**
[13] C

[51] **Int.Cl. C07D 405/12 (2006.01) A61K 31/455 (2006.01) C07D 211/56 (2006.01)**
[25] EN
[54] **CXCR7 RECEPTOR MODULATORS**
[54] **MODULATEURS DU RECEPTEUR DE CXCR7**
[72] FRETZ, HEINZ, CH
[72] GUERRY, PHILIPPE, CH
[72] KIMMERLIN, THIERRY, CH
[72] LEHEMBRE, FRANCOIS, CH
[72] POTHIER, JULIEN, CH
[72] SIENDT, HERVE, CH
[72] VALDENNAIRE, ANJA, CH
[73] IDORSIA PHARMACEUTICALS LTD, CH
[85] 2015-11-10
[86] 2014-05-28 (PCT/IB2014/061774)
[87] (WO2014/191929)
[30] IB (PCT/IB2013/054478) 2013-05-30

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[11] **2,912,229**
[13] C
[51] **Int.Cl. H01H 47/04 (2006.01) H02J 1/00 (2006.01) H02J 3/00 (2006.01)**
[25] FR
[54] **ASSISTANCE DEVICE AND METHOD FOR A POWER GENERATION SYSTEM OF AN AIRCRAFT**
[54] **DISPOSITIF ET PROCEDE D'ASSISTANCE D'UN SYSTEME DE GENERATION ELECTRIQUE D'UN AERONEF**
[72] HENRARD, PIERRE, FR
[72] CARRE, NICOLAS, FR
[72] CHAPOTIN, BRUNO, FR
[73] LABINAL POWER SYSTEMS, FR
[85] 2015-11-09
[86] 2014-06-06 (PCT/FR2014/051371)
[87] (WO2014/199056)
[30] FR (1355347) 2013-06-10

[11] **2,912,376**
[13] C
[51] **Int.Cl. E04C 3/20 (2006.01) E04B 2/18 (2006.01) E04B 2/26 (2006.01) E04B 2/36 (2006.01) E04C 1/39 (2006.01) E04B 2/02 (2006.01)**
[25] EN
[54] **MULTI-USE BUILDING BLOCK AND METHODS**
[54] **BLOC DE CONSTRUCTION POLYVALENT ET PROCEDES**
[72] JOHNSON, JAY J., US
[72] BURNQUIST, ROBERT B., US
[72] BENNETT, STEVEN PAUL, US
[73] ANCHOR WALL SYSTEMS, INC., US
[85] 2015-11-12
[86] 2014-05-13 (PCT/US2014/037874)
[87] (WO2014/186376)
[30] US (61/823,650) 2013-05-15

[11] **2,912,433**
[13] C
[51] **Int.Cl. B65D 77/20 (2006.01) B65D 53/02 (2006.01)**
[25] EN
[54] **SEAL RING FOR FOIL-SEALING A CONTAINER**
[54] **BAGUE D'ETANCHEITE POUR FERMETURE PAR OPERCULE D'UN RECIPIENT**
[72] GRANT, EDWARD A., US
[73] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2015-11-12
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[87] (WO2014/186155)
[30] US (13/892,775) 2013-05-13

[11] **2,912,633**
[13] C
[51] **Int.Cl. B65D 85/30 (2006.01) B65D 81/02 (2006.01)**
[25] EN
[54] **ANTI-BALLISTIC HANDLING CASES, BOXES AND CONTAINERS**
[54] **CAISSES, BOITES ET RECIPIENTS DE TRAITEMENT ANTI-BALISTIQUE**
[72] PETERS, FRED E., US
[72] WEMHOENER, JENS, DE
[72] MOWBRAY, PETER, US
[73] SHIELDPRO, LLC, US
[85] 2015-11-13
[86] 2014-05-14 (PCT/US2014/038014)
[87] (WO2014/186474)
[30] US (61/823,333) 2013-05-14

[11] **2,912,872**
[13] C
[51] **Int.Cl. D06M 10/02 (2006.01) C09D 123/00 (2006.01) C09D 163/00 (2006.01) C09D 183/06 (2006.01) D06M 10/08 (2006.01) D06M 10/10 (2006.01) D06M 14/22 (2006.01) D06M 14/28 (2006.01)**
[25] EN
[54] **A POLYMERIC FILM COATING METHOD ON A SUBSTRATE BY DEPOSITING AND SUBSEQUENTLY POLYMERIZING A MONOMERIC COMPOSITION BY PLASMA TREATMENT**
[54] **PROCEDE DE REVETEMENT D'UN SUBSTRAT AVEC UN FILM POLYMERE PAR DEPOT ET POLYMERISATION ULTERIEURE D'UNE COMPOSITION MONOMERE PAR UN TRAITEMENT PAR PLASMA**
[72] RICCARDI, CLAUDIA, IT
[72] ZANINI, STEFANO, IT
[72] TASSETTI, DARIO, IT
[73] UNIVERSITA DEGLI STUDI DI MILANO - BICOCCA, IT
[85] 2015-11-17
[86] 2014-05-26 (PCT/IB2014/061726)
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[30] IT (MI2013A000855) 2013-05-27

[11] **2,913,183**
[13] C
[51] **Int.Cl. B65G 17/12 (2006.01) A21B 1/42 (2006.01) B65G 47/57 (2006.01)**
[25] FR
[54] **TRANSPORT DEVICE OF THE NORIA TYPE**
[54] **DISPOSITIF DE TRANSPORT DE TYPE NORIA**
[72] ZORN, BERNARD, FR
[73] MECATHERM, FR
[85] 2015-11-20
[86] 2014-07-01 (PCT/FR2014/051693)
[87] (WO2015/001254)
[30] FR (1356601) 2013-07-05

[11] **2,913,444**
[13] C
[51] **Int.Cl. H04L 29/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR USER AUTHENTICATION**
[54] **SYSTEME ET PROCEDE D'AUTHENTIFICATION D'UTILISATEUR**
[72] AUMASSON, JEAN-PHILIPPE, CH
[73] NAGRAVISION S.A., CH
[85] 2015-11-24
[86] 2014-05-19 (PCT/EP2014/060261)
[87] (WO2014/195122)
[30] EP (13170745.7) 2013-06-06

[11] **2,913,657**
[13] C
[51] **Int.Cl. B01F 15/02 (2006.01) A61B 17/88 (2006.01) A61F 2/46 (2006.01) A61J 1/20 (2006.01) B01F 3/12 (2006.01) B01F 5/06 (2006.01) B01F 13/00 (2006.01) A61F 2/28 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR IMPROVING HYDRATION OF A BIOMATERIAL**
[54] **DISPOSITIF ET PROCEDE POUR L'AMELIORATION DE L'HYDRATATION D'UN BIOMATERIAU**
[72] GEPPERT, KEVIN C., US
[72] KIRK, THOMAS A., US
[73] NORDSON CORPORATION, US
[85] 2015-11-25
[86] 2014-06-18 (PCT/US2014/042913)
[87] (WO2014/205063)
[30] US (61/837,315) 2013-06-20
[30] US (14/306,852) 2014-06-17

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[13] C

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[25] EN

[54] **BEVERAGE CAN END HAVING AN ARCUATE PANEL WALL AND CURVED TRANSITION WALL**

[54] **EXTREMITE DE CANETTE DE BOISSON AYANT UNE PAROI DE PANNEAU ARQUEE ET UNE PAROI DE TRANSITION ARRONDIE**

[72] JOHNSON, EZEKIEL, US

[72] FIELDS, BRIAN, US

[73] CROWN PACKAGING TECHNOLOGY, INC., US

[85] 2015-11-27

[86] 2014-05-29 (PCT/US2014/039974)

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[30] US (61/829,874) 2013-05-31

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[13] C

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[25] EN

[54] **METHODS, INFORMATION PROVIDING SYSTEM, AND RECEPTION APPARATUS FOR DISTRIBUTION OF AT LEAST ONE CONTENT VERSION**

[54] **PROCEDES, SYSTEME DE FOURNITURE D'INFORMATIONS ET APPAREIL DE RECEPTION POUR DISTRIBUER AU MOINS UNE VERSION DE CONTENU**

[72] FAY, LUKE, US

[72] ZUSTAK, FREDERICK J., US

[72] SHINTANI, PETER, US

[72] CANDELORE, BRANT, US

[73] SONY CORPORATION, JP

[85] 2015-11-30

[86] 2014-06-04 (PCT/US2014/040870)

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[11] **2,914,065**
[13] C

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 23/00 (2006.01)**

[25] EN

[54] **MULTI-STAGE WELL SYSTEM AND TECHNIQUE**

[54] **SYSTEME ET TECHNIQUE DE Puits A ETAGES MULTIPLES**

[72] PABON, JAHIR, US

[72] GODFREY, MATTHEW, US

[72] ROWATT, JOHN DAVID, US

[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2015-11-30

[86] 2014-06-16 (PCT/US2014/042455)

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[13] C

[51] **Int.Cl. F04B 9/109 (2006.01) B01F 15/04 (2006.01) F04B 9/111 (2006.01) F04B 9/113 (2006.01) F04B 13/00 (2006.01) F04B 13/02 (2006.01)**

[25] EN

[54] **METERING PUMP AND METERING SYSTEM**

[54] **POMPE DOSEUSE ET SYSTEME DE DOSAGE**

[72] WICHMANN, WOLF-DIETER, DE

[73] BASF SE, DE

[85] 2015-12-01

[86] 2014-06-03 (PCT/EP2014/061480)

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[30] EP (13170604.6) 2013-06-05

[11] **2,914,172**
[13] C

[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 50/02 (2015.01) B33Y 80/00 (2015.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR MANUFACTURING AN ANTI-COUNTERFEIT THREE-DIMENSIONAL ARTICLE**

[54] **APPAREIL ET METHODE DE FABRICATION D'UN ARTICLE TRIDIMENSIONNEL ANTI-CONTREFACON**

[72] DIETRICH, DAVID M., US

[73] THE BOEING COMPANY, US

[86] (2914172)

[87] (2914172)

[22] 2015-12-04

[30] US (14/613,504) 2015-02-04

[11] **2,914,501**
[13] C

[51] **Int.Cl. A61K 31/7032 (2006.01) A61P 35/00 (2006.01) A61K 39/39 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR REDUCING OR PREVENTING METASTASIS**

[54] **COMPOSITIONS ET PROCEDES POUR REDUIRE OU PREVENIR LES METASTASES**

[72] BEN-ELIYAHU, SHAMGAR, IL

[72] MATZNER, PINI, IL

[72] REED, STEVEN G., US

[73] INFECTIOUS DISEASE RESEARCH INSTITUTE, US

[85] 2015-12-03

[86] 2014-06-04 (PCT/US2014/040954)

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[11] **2,914,786**
[13] C

[51] **Int.Cl. H04W 4/10 (2009.01) H04W 88/16 (2009.01)**

[25] EN

[54] **SIP EXTENSION FOR DMR NETWORKS MATCHING PMR FEATURES**

[54] **EXTENSION DE SIP POUR DES RESEAUX DMR CORRESPONDANT A DES FONCTIONS PMR**

[72] LUCANO, DANIELE, IT

[72] OLIVIERI, CLAUDIA, IT

[72] PIZZORNO, MARCO, IT

[73] LEONARDO SOCIETA PER AZIONI, IT

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[13] C

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[25] EN
[54] **AUTOMATED MULTI-SILO AGGREGATE MANAGEMENT**
[54] **GESTION REGROUPEE MULTI-SILO AUTOMATISEE**
[72] LOPEZ, MIGUEL ANGEL, US
[72] KAJITA, MARCOS SUGURU, US
[72] CHAUHAN, BANSI, US
[72] SHEN, CHRISTOPHER TODD, US
[73] SCHLUMBERGER CANADA LIMITED, CA
[86] (2914875)
[87] (2914875)
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[30] US (62/090,789) 2014-12-11
[30] US (62/093,272) 2014-12-17

[11] **2,914,928**
[13] C

[51] **Int.Cl. C08L 83/04 (2006.01)**
[25] EN
[54] **POLYOLEFIN ELASTOMER AND POLYSILOXANE BLENDS**
[54] **MELANGES D'ELASTOMERE POLYOLEFINIQUE ET DE POLYSILOXANE**
[72] CREE, STEPHEN H., CH
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2015-12-09
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[87] (WO2014/209543)
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[11] **2,915,244**
[13] C

[51] **Int.Cl. A61M 16/06 (2006.01) A61M 16/04 (2006.01)**
[25] EN
[54] **HELMET FOR ANESTHESIA**
[54] **CASQUE POUR ANESTHESIE**
[72] GIULIANOTTI, PIER, US
[72] VITTORI, ARTURO, US
[72] VOGLER, ANDREAS, US
[73] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2015-12-11
[86] 2014-06-13 (PCT/US2014/042281)
[87] (WO2014/201338)
[30] US (61/834,510) 2013-06-13

[11] **2,915,292**
[13] C

[51] **Int.Cl. B64D 25/14 (2006.01)**
[25] FR
[54] **METHOD FOR ARMING/DISARMING AN AIRCRAFT DOOR EVACUATION SLIDE AND IMPLEMENTATION MECHANISM**
[54] **PROCEDE D'ARMEMENT/DESARMEMENT DE TOBOGGAN DE PORTE D'AVION ET MECANISME DE MISE EN OEUVRE**
[72] BESSETTES, CYRILLE, FR
[72] BUCHET, DAMIEN, FR
[72] OTHOMENE, RENAUD, FR
[73] LATECOERE, FR
[85] 2015-12-11
[86] 2014-06-13 (PCT/EP2014/062482)
[87] (WO2014/198952)
[30] FR (1355563) 2013-06-14

[11] **2,915,578**
[13] C

[51] **Int.Cl. B01J 23/847 (2006.01) B01J 23/89 (2006.01) B01J 35/00 (2006.01) B01J 37/02 (2006.01) B01J 37/03 (2006.01) B01J 37/16 (2006.01) C07C 31/04 (2006.01)**
[25] EN
[54] **NATA03 : LA2O3 CATALYST WITH CO-CATALYST COMPOSITION FOR PHOTOCATALYTIC REDUCTION OF CARBON DIOXIDE**
[54] **COMPOSITION DE CATALYSEUR NATAO3 : LA2O3 AVEC CO-CATALYSEUR POUR LA REDUCTION PHOTOCATALYTIQUE DE DIOXYDE DE CARBONE**
[72] VELU, JEYALAKSHMI, IN
[72] KONDA, KRISHNAMURTHY RAMASWAMY, IN
[72] BALASUBRAMANIAN, VISWANATHAN, IN
[72] RAMESH, KANAPARTHI, IN
[72] PEDDY, VENKATA CHALAPATHI RAO, IN
[72] NETTEM, VENKATESWARLU CHOUDARY, IN
[72] GANDHAM, SRI GANESH, IN
[73] HINDUSTAN PETROLEUM CORPORATION LIMITED, IN
[73] INDIAN INSTITUTE OF TECHNOLOGY, MADRAS, IN
[85] 2015-12-15
[86] 2013-08-27 (PCT/IN2013/000521)
[87] (WO2014/203265)
[30] IN (2039/MUM/2013) 2013-06-17

[11] **2,915,763**
[13] C

[51] **Int.Cl. C01B 5/02 (2006.01) B01D 59/40 (2006.01) G01N 1/40 (2006.01)**
[25] EN
[54] **ELECTROLYTIC ENRICHMENT METHOD FOR HEAVY WATER**
[54] **PROCEDE D'ENRICHISSEMENT ELECTROLYTIQUE DE L'EAU LOURDE**
[72] MANABE, AKIYOSHI, JP
[72] NISHIKI, YOSHINORI, JP
[72] KUNIMATSU, AKIRA, JP
[73] INDUSTRIE DE NORA S.P.A., IT
[85] 2015-12-16
[86] 2014-07-24 (PCT/EP2014/065948)
[87] (WO2015/014716)
[30] JP (2013-158735) 2013-07-31

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[13] C

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[25] EN

[54] **NOVEL LIGHT STABILIZERS**

[54] **NOUVEAUX STABILISANTS LUMIERE**

[72] PETER, WOLFGANG, DE

[72] BRAIG, ADALBERT, DE

[72] BERENS, ULRICH, DE

[72] SCHONING, KAI-UWE, CH

[72] GROB, MARKUS, CH

[72] TARTARINI, CINZIA, CH

[72] WEYLAND, TANIA, FR

[73] BASF SE, DE

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[87] (WO2015/004580)

[30] EP (13175595.1) 2013-07-08

[11] **2,916,747**
[13] C

[51] **Int.Cl. A47F 7/02 (2006.01)**

[25] EN

[54] **JEWELRY ORGANIZER STAND**

[54] **SUPPORT DE RANGEMENT DE BIJOUX**

[72] TRAINOR-SMITH, SHARON, US

[72] MENDEZ, MARK HENRY, US

[73] STS INNOVATION & DESIGN, LLC, US

[85] 2015-12-22

[86] 2014-07-28 (PCT/US2014/048345)

[87] (WO2015/017296)

[30] US (61/860,358) 2013-07-31

[11] **2,917,228**
[13] C

[51] **Int.Cl. F16H 1/28 (2006.01) F16H 3/44 (2006.01)**

[25] FR

[54] **INCORPORATION OF A GEAR TRAIN IN A PINION WALL IN A GEARBOX FOR A TURBOMACHINE**

[54] **INTEGRATION D'UN TRAIN D'ENGRENAGES DANS UN VOILE DE PIGNON DE BOITIER D'ENTRAINEMENT POUR TURBOMACHINE**

[72] PRUNERA-USACH, STEPHANE, FR

[72] BECK, GUILLAUME, FR

[72] PELTIER, JORDANE, FR

[73] HISPANO SUIZA, FR

[85] 2016-01-04

[86] 2014-07-09 (PCT/FR2014/051760)

[87] (WO2015/004387)

[30] FR (13 56787) 2013-07-10

[11] **2,917,298**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 47/64 (2017.01) A61K 9/14 (2006.01) A61P 9/00 (2006.01) C07C 237/40 (2006.01) C07C 257/18 (2006.01) C07D 271/06 (2006.01)**

[25] EN

[54] **NOVEL FORMULATIONS OF FACTOR VIIA INHIBITORS AND UTILITY**

[54] **NOUVELLES FORMULATIONS D'INHIBITEURS DE FACTEUR VIIA, ET UTILISATION**

[72] MOUSA, SHAKER A., US

[73] MOUSA, SHAKER A., US

[85] 2016-01-04

[86] 2014-07-02 (PCT/US2014/045177)

[87] (WO2015/003025)

[30] US (13/935,665) 2013-07-05

[11] **2,917,400**
[13] C

[51] **Int.Cl. B60R 11/00 (2006.01)**

[25] EN

[54] **ADAPTABLE MOUNTS FOR ATTACHMENT TO CYLINDRICAL SURFACES**

[54] **SUPPORTS ADAPTABLES DESTINES A ETRE ATTACHES A DES SURFACES CYLINDRIQUES**

[72] HAARBURGER, DANIEL J., US

[73] NITE IZE, INC., US

[85] 2016-01-05

[86] 2014-06-13 (PCT/US2014/042416)

[87] (WO2014/201425)

[30] US (61/834,502) 2013-06-13

[11] **2,917,596**
[13] C

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 9/72 (2006.01) A61K 31/4709 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **SALTS OF 2-AMINO-1-HYDROXYETHYL-8-HYDROXYQUINOLIN-2(1H)-ONE DERIVATIVES HAVING BOTH MUSCARINIC RECEPTOR ANTAGONIST AND .BETA.2 ADRENERGIC RECEPTOR AGONIST ACTIVITIES**

[54] **SELS DE DERIVES 2-AMINO-1-HYDROXYETHYL-8-HYDROXYQUINOLIN-2(1H)-ONE AYANTA LA FOIS L'ACTIVITE D'UN ANTAGONISTE DU RECEPTEUR MUSCARINIQUE ET L'ACTIVITE D'UN AGONISTE DU RECEPTEUR .BETA.2 ADRENERGIQUE**

[72] JULIA JANE, MONTSERRAT, ES

[72] CARRERA CARRERA, FRANCESC, ES

[72] PRAT QUINONES, MARIA, ES

[72] PUIG DURAN, CARLOS, ES

[72] PAJUELO LORENZO, FRANCESCA, ES

[72] PEREZ ANDRES, JUAN ANTONIO, ES

[73] ALMIRALL, S.A., ES

[85] 2016-01-06

[86] 2014-07-24 (PCT/EP2014/065965)

[87] (WO2015/011244)

[30] EP (13382304.7) 2013-07-25

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[13] C

[51] **Int.Cl. B64D 45/00 (2006.01) B64C 9/14 (2006.01)**
[25] EN
[54] **AIRCRAFT WING SLAT SKEW DETECTION SYSTEMS AND METHODS**
[54] **SYSTEMES DE DETECTION D'INCLINAISON DE BEC DE BORD D'ATTAQUE D'UN AERONEF ET METHODES**
[72] ANDERSON, RANDALL EUGENE, US
[73] THE BOEING COMPANY, US
[86] (2918142)
[87] (2918142)
[22] 2016-01-19
[30] US (14/683036) 2015-04-09

[11] **2,918,261**
[13] C

[51] **Int.Cl. A47G 19/02 (2006.01) A47G 23/06 (2006.01)**
[25] EN
[54] **PLATE FOR SERVING HOT MEALS THEREON**
[54] **ASSIETTE SUR LAQUELLE SERVIR DES REPAS CHAUDS**
[72] SPELEERS, POL, BE
[72] REDJAL, KARIM, BE
[73] PROBALCO BVBA, BE
[85] 2016-01-14
[86] 2014-07-23 (PCT/EP2014/065831)
[87] (WO2015/011195)
[30] EP (13177666.8) 2013-07-23

[11] **2,918,285**
[13] C

[51] **Int.Cl. C04B 41/64 (2006.01)**
[25] EN
[54] **HYDROPHOBIZED FIBER CEMENT PRODUCT COMPRISING AT LEAST ONE PROFILED SURFACE**
[54] **PRODUIT DE FIBROCIMENT HYDROPHOBISE COMPRENANT AU MOINS UNE SURFACE PROFILEE**
[72] VAN DEN BERGH, FRANK, BE
[73] ETEX SERVICES NV, BE
[85] 2016-01-14
[86] 2014-09-08 (PCT/EP2014/069086)
[87] (WO2015/036362)
[30] EP (13184402.9) 2013-09-13

[11] **2,918,489**
[13] C

[51] **Int.Cl. G01V 9/00 (2006.01) G16Z 99/00 (2019.01)**
[25] EN
[54] **IDENTIFYING MATCHING PROPERTIES BETWEEN A GROUP OF BODIES REPRESENTING A GEOLOGICAL STRUCTURE AND A TABLE OF PROPERTIES**
[54] **IDENTIFICATION DE PROPRIETES CORRESPONDANTES ENTRE UN GROUPE DE CORPS REPRESENTANT UNE STRUCTURE GEOLOGIQUE ET UNE TABLE DE PROPRIETES**
[72] EWING, MICHAEL DAVID, US
[72] IGARASHI, SAMMI, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2016-01-15
[86] 2014-08-15 (PCT/US2014/051292)
[87] (WO2015/023954)
[30] US (61/866,927) 2013-08-16

[11] **2,919,187**
[13] C

[51] **Int.Cl. B63B 17/00 (2006.01) B63B 29/20 (2006.01) F16C 7/04 (2006.01)**
[25] EN
[54] **DIVING BOARD FOR USE ON A BOAT**
[54] **PLONGEOIR DESTINE A ETRE UTILISE SUR UN NAVIRE**
[72] SCHAUB, COREY L., US
[73] SCHAUB, COREY L., US
[85] 2016-01-22
[86] 2014-07-22 (PCT/US2014/047591)
[87] (WO2015/013261)
[30] US (61/857,504) 2013-07-23

[11] **2,919,192**
[13] C

[51] **Int.Cl. B65H 35/07 (2006.01)**
[25] EN
[54] **ADHESIVE TAPE DISPENSER FOR FOLDED EDGE TAPE**
[54] **DISTRIBUTEUR DE RUBAN ADHESIF POUR RUBAN A BORDS PLIES**
[72] VULPITTA, BRIAN A., US
[72] FESTA, DANIEL E., SR., US
[72] DEWITT, WILLIAM F., US
[72] MISENER, AARON A., US
[72] TAYLOR, CURTIS P., US
[73] SHURTAPE TECHNOLOGIES, LLC, US
[85] 2016-01-22
[86] 2014-07-22 (PCT/US2014/047685)
[87] (WO2015/013325)
[30] US (61/856,908) 2013-07-22

[11] **2,919,253**
[13] C

[51] **Int.Cl. G06T 7/571 (2017.01) G06T 5/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR GENERATING AN ALL-IN-FOCUS IMAGE**
[54] **PROCEDE ET APPAREIL DE PRODUCTION D'UNE IMAGE TOTALEMENT MISE AU POINT**
[72] SHROFF, NITESH, US
[72] REZAIIFAR, RAMIN, US
[72] SHARMA, PIYUSH, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-01-22
[86] 2014-08-29 (PCT/US2014/053583)
[87] (WO2015/031856)
[30] US (61/872,504) 2013-08-30
[30] US (14/471,416) 2014-08-28

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[11] **2,919,532**
[13] C

[51] **Int.Cl. C07C 69/732 (2006.01) A61L 27/54 (2006.01) C08G 63/64 (2006.01) C08L 67/00 (2006.01)**

[25] EN

[54] **POLYMERIC BIOMATERIALS DERIVED FROM MONOMERS COMPRISING HYDROXYACIDS AND PHENOL COMPOUNDS AND THEIR MEDICAL USES**

[54] **BIOMATERIAUX POLYMERES ISSUS DE MONOMERES COMPRENANT DES HYDROXYACIDES ET DES COMPOSES PHENOL, ET LEURS UTILISATIONS MEDICALES**

[72] BOLIKAL, DURGADAS, US

[72] KOHN, JOACHIM B., US

[72] KABALNOVA, LIOBOV, US

[73] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US

[73] REVA MEDICAL, INC., US

[85] 2016-01-26

[86] 2014-08-07 (PCT/US2014/050105)

[87] (WO2015/021254)

[30] US (61/863,216) 2013-08-07

[11] **2,919,683**
[13] C

[51] **Int.Cl. E06B 9/32 (2006.01) E06B 9/26 (2006.01)**

[25] EN

[54] **RAIL RETENTION SYSTEM FOR A CORDLESS WINDOW SHADE**

[54] **MECANISME DE RETENUE DE GLISSIERE DESTINE A UN STORE SANS CORDE**

[72] RETTIG, DIRK JEREMY, US

[73] SPRINGS WINDOW FASHIONS, LLC, US

[86] (2919683)

[87] (2919683)

[22] 2016-02-02

[30] US (62/110,956) 2015-02-02

[11] **2,919,717**
[13] C

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/15 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **BONE RESECTION GUIDE AND METHOD**

[54] **GUIDE DE RESECTION OSSEUSE ET PROCEDE**

[72] ROBICHAUD, JEAN, CA

[72] MIQUEL, FLORENT, CA

[72] RIVET-SABOURIN, GEOFFROY, CA

[72] BEDARD, MARC, CA

[73] LABORATOIRES BODYCAD INC., CA

[85] 2016-01-28

[86] 2014-08-21 (PCT/CA2014/050806)

[87] (WO2015/024130)

[30] US (61/868,242) 2013-08-21

[11] **2,920,006**
[13] C

[51] **Int.Cl. C09D 11/101 (2014.01) C09D 11/322 (2014.01) C09D 11/324 (2014.01) C09D 11/40 (2014.01)**

[25] EN

[54] **RADIATION CURABLE COMPOSITIONS FOR FOOD PACKAGING**

[54] **COMPOSITIONS DURCISSABLES PAR UN RAYONNEMENT POUR L'EMBALLAGE ALIMENTAIRE**

[72] DE MONDT, ROEL, BE

[72] LOCCUFIER, JOHAN, BE

[73] AGFA NV, BE

[85] 2016-01-29

[86] 2014-09-16 (PCT/EP2014/069693)

[87] (WO2015/036615)

[30] EP (13184521.6) 2013-09-16

[11] **2,920,292**
[13] C

[51] **Int.Cl. H04B 1/10 (2006.01) H04B 1/7097 (2011.01)**

[25] EN

[54] **A MULTIUSER COMMUNICATIONS SYSTEM**

[54] **SYSTEME DE COMMUNICATION MULTIUTILISATEUR**

[72] GRANT, ALEXANDER JAMES, AU

[72] LECHNER, GOTTFRIED, AU

[72] POLLOK, ANDRE, AU

[72] MCKILLIAM, ROBERT GEORGE, AU

[72] LAND, INGMAR RUDIGER, AU

[72] HALEY, DAVID VICTOR LAWRIE, AU

[72] COWLEY, WILLIAM GEORGE, AU

[72] DAVIS, LINDA MARY, AU

[72] BARBULESCU, SORIN ADRIAN, AU

[72] BUETEFUER, JOHN LAWRENCE, AU

[72] LAVENANT, MARC PIERRE DENIS, AU

[73] MYRIOTA PTY LTD, AU

[85] 2016-02-03

[86] 2014-08-21 (PCT/AU2014/000826)

[87] (WO2015/024056)

[30] AU (2013903163) 2013-08-21

[11] **2,920,335**
[13] C

[51] **Int.Cl. F01D 5/14 (2006.01) F04D 29/32 (2006.01)**

[25] FR

[54] **MOBILE TURBOMACHINE BLADE**

[54] **AUBE MOBILE DE TURBOMACHINE**

[72] CELLIER, DAMIEN JOSEPH, FR

[72] DUFRESNE, ALICIA LISE JULIA, FR

[72] PELLETRAU, PHILIPPE PIERRE MARCEL MARIE, FR

[72] PERROT, VINCENT PAUL GABRIEL, FR

[72] VILLAINES, LAURENT CHRISTOPHE FRANCIS, FR

[73] SNECMA, FR

[85] 2016-02-03

[86] 2014-08-04 (PCT/FR2014/052023)

[87] (WO2015/019009)

[30] FR (1357855) 2013-08-07

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[11] **2,920,428**
[13] C

[51] **Int.Cl. A01C 1/00 (2006.01) A01C 1/02 (2006.01) G01B 11/30 (2006.01) G01N 21/35 (2014.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ESTIMATING A SEED GERMINATION ABILITY**

[54] **PROCEDE ET APPAREIL POUR ESTIMER UNE CAPACITE DE GERMINATION DE SEMENCE**

[72] BARYCHEV, ANDREI
MIKHAILOVITCH, NL

[72] BELITSKAYA, ALENA
VLADIMIROVNA, NL

[72] KHUDCHENKO, ANDREY
VYACHESLAVOVICH, NL

[72] BALTISSSEN, ANTONIUS HENRICUS
MARIA CATHARINA, NL

[73] DUTCH TERAHERTZ INSPECTION SERVICES B.V., NL

[85] 2016-02-03
[86] 2013-08-05 (PCT/NL2013/050579)
[87] (WO2015/020515)

[11] **2,920,664**
[13] C

[51] **Int.Cl. D06F 60/00 (2009.01) G01K 11/12 (2021.01)**

[25] EN

[54] **LAUNDRY PROCESS TEMPERATURE INDICATORS / MARKERS AND FABRICS INCORPORATING SAME**

[54] **INDICATEURS / MARQUEURS DE TEMPERATURE DE TRAITEMENT DE LINGE ET TISSUS LES INCORPORANT**

[72] SAVARIA, NORM, US

[72] HARRIS, BILLY, US

[73] WESTPOINT HOME LLC, US

[85] 2016-02-05
[86] 2014-08-11 (PCT/US2014/050530)
[87] (WO2015/021464)
[30] US (61/864,399) 2013-08-09
[30] US (61/864,395) 2013-08-09

[11] **2,920,683**
[13] C

[51] **Int.Cl. A61M 25/01 (2006.01) A61B 17/34 (2006.01) A61B 18/14 (2006.01) A61M 25/06 (2006.01)**

[25] EN

[54] **METHODS AND DEVICES FOR PUNCTURING TISSUE**

[54] **PROCEDES ET DISPOSITIFS POUR PONCTURER UN TISSU**

[72] DAVIES, GARETH, CA

[72] URBANSKI, JOHN PAUL, CA

[72] BECA, BOGDAN, CA

[72] ALLEY, FERRY, CA

[73] BAYLIS MEDICAL COMPANY INC., CA

[85] 2016-02-05
[86] 2013-11-20 (PCT/IB2013/060287)
[87] (WO2015/019132)
[30] US (61/863,265) 2013-08-07
[30] US (61/863,579) 2013-08-08

[11] **2,921,364**
[13] C

[51] **Int.Cl. B60K 7/00 (2006.01)**

[25] EN

[54] **CYCLOIDAL WHEEL DRIVE**

[54] **ENTRAINEMENT DE ROUE CYCLOIDALE**

[72] KLUBERTANZ, JAMES A., US

[72] BUEGE, WALLACE, US

[72] BALLWEG, BRADLEY, US

[72] ZOLP, DENNIS, US

[73] WEASLER ENGINEERING, INC., US

[85] 2016-02-12
[86] 2014-08-13 (PCT/US2014/050899)
[87] (WO2015/023754)
[30] US (61/865,280) 2013-08-13

[11] **2,921,506**
[13] C

[51] **Int.Cl. B07B 1/46 (2006.01)**

[25] EN

[54] **DUAL SCREEN ASSEMBLY FOR VIBRATING SCREENING MACHINE**

[54] **ENSEMBLE DE DOUBLE TAMIS POUR MACHINE DE TAMISAGE VIBRANTE**

[72] POMERLEAU, DANIEL GUY, CA

[73] FP CANMECHANICA INC., CA

[85] 2016-02-17
[86] 2014-08-26 (PCT/CA2014/000655)
[87] (WO2015/027321)
[30] US (61/870,687) 2013-08-27
[30] US (61/936,119) 2014-02-05
[30] US (62/008,868) 2014-06-06

[11] **2,921,901**
[13] C

[51] **Int.Cl. B21D 53/78 (2006.01) B21J 13/02 (2006.01) B21K 3/04 (2006.01) B23P 15/04 (2006.01)**

[25] FR

[54] **METHOD FOR THE HIGH-TEMPERATURE SHAPING OF A METAL BLADE REINFORCEMENT**

[54] **PROCEDE DE CONFORMAGE A HAUTE TEMPERATURE D'UN RENFORT METALLIQUE D'AUBE**

[72] ABOUSEFIAN, JACQUES, FR

[72] BOSSELUT, ANTOINE, FR

[72] KLEIN, GILLES CHARLES
CASIMIR, FR

[73] SNECMA, FR

[85] 2016-02-19
[86] 2014-08-25 (PCT/FR2014/052117)
[87] (WO2015/028750)
[30] FR (1358360) 2013-09-02

[11] **2,922,306**
[13] C

[51] **Int.Cl. H04L 12/10 (2006.01)**

[25] EN

[54] **POWER DISTRIBUTION SYSTEM**

[54] **SYSTEME DE DISTRIBUTION D'ENERGIE**

[72] THEUNISSEN, BOB BERNARDUS
ANTHONIUS, NL

[72] YSEBOODT, LENNART, NL

[72] VAN DER ZANDEN, HENRICUS
THEODORUS, NL

[72] WENDT, MATTHIAS, NL

[73] PHILIPS LIGHTING HOLDING B.V., NL

[85] 2016-02-24
[86] 2014-07-24 (PCT/EP2014/065874)
[87] (WO2015/028210)
[30] EP (13181853.6) 2013-08-27

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[11] **2,923,442**
[13] C

[51] **Int.Cl. C22C 21/00 (2006.01) C22F 1/04 (2006.01)**
[25] EN
[54] **ALUMINUM ALLOY PRODUCTS AND METHODS FOR PRODUCING SAME**
[54] **PRODUITS D'ALLIAGE D'ALUMINIUM ET LEURS PROCEDES DE PRODUCTION**
[72] UNAL, ALI, US
[72] WYATT-MAIR, GAVIN F., US
[72] TOMES, DAVID A., US
[72] ROUNS, THOMAS N., US
[72] KARABIN, LYNETTE M., US
[73] ARCONIC TECHNOLOGIES LLC, US
[85] 2016-03-04
[86] 2014-09-08 (PCT/US2014/054588)
[87] (WO2015/035318)
[30] US (61/874,828) 2013-09-06

[11] **2,923,495**
[13] C

[51] **Int.Cl. G01F 1/74 (2006.01)**
[25] EN
[54] **A METHOD AND APPARATUS FOR MEASUREMENT OF INDIVIDUAL COMPONENTS OF A MULTIPHASE FLUID**
[54] **METHODE ET APPAREIL DE MESURE DE COMPOSANTS INDIVIDUELS D'UN FLUIDE POLYPHASIQUE**
[72] WEE, ARNSTEIN, NO
[72] GUNDERSEN, KENNETH, NO
[73] FMC KONGSBERG SUBSEA AS, NO
[85] 2016-03-04
[86] 2014-10-01 (PCT/NO2014/050183)
[87] (WO2015/050459)
[30] NO (20131319) 2013-10-01

[11] **2,924,319**
[13] C

[51] **Int.Cl. B01D 53/78 (2006.01) B01D 47/06 (2006.01) B01D 53/56 (2006.01)**
[25] EN
[54] **TREATMENT OF NITROGEN OXIDES IN FLUE GAS STREAMS**
[54] **TRAITEMENT DES OXYDES D'AZOTE DANS LES FLUX DE GAZ DE COMBUSTION**
[72] BLOCK, PHILIP A., US
[72] HOLTZ, TIMOTHY, US
[72] PISANOVA, ELENA, US
[72] ROVISON, JOHN M., JR., US
[73] EVONIK OPERATIONS GMBH, DE
[85] 2016-03-14
[86] 2014-09-15 (PCT/US2014/055630)
[87] (WO2015/039019)
[30] US (14/026,338) 2013-09-13
[30] US (14/486,395) 2014-09-15

[11] **2,924,501**
[13] C

[51] **Int.Cl. H04N 19/50 (2014.01)**
[25] EN
[54] **METHOD OF VIDEO CODING USING PREDICTION BASED ON INTRA PICTURE BLOCK COPY**
[54] **PROCEDE DE CODAGE VIDEO UTILISANT UNE PREDICTION BASEE SUR UNE COPIE INTRA-BLOC D'IMAGE**
[72] LIU, SHAN, US
[72] XU, XIAOZHONG, US
[73] HFI INNOVATION INC., CN
[85] 2016-03-16
[86] 2014-11-14 (PCT/CN2014/091058)
[87] (WO2015/078304)
[30] US (61/909,499) 2013-11-27
[30] US (61/926,577) 2014-01-13

[11] **2,924,789**
[13] C

[51] **Int.Cl. C07D 401/06 (2006.01) A61K 31/454 (2006.01) A61P 25/04 (2006.01) C07D 401/14 (2006.01) C07D 403/06 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **CYCLIC AMINE DERIVATIVE AND PHARMACEUTICAL USE THEREOF**
[54] **DERIVE D'AMINE CYCLIQUE ET UTILISATION PHARMACEUTIQUE DE CELUI-CI**
[72] MORITA, YASUHIRO, JP
[72] IZUMIMOTO, NAOKI, JP
[72] ISEKI, KATSUHIKO, JP
[72] IWANO, SHUNSUKE, JP
[72] UDAGAWA, SHUJI, JP
[72] MIYOSHI, TOMOYA, JP
[72] OSADA, YUJI, JP
[72] KOREEDA, TETSURO, JP
[72] MURAKAMI, MASANORI, JP
[72] SHIRAKI, MOTOHIRO, JP
[72] TAKAHASHI, KEI, JP
[72] OSHIDA, KEIYU, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2016-03-18
[86] 2014-09-26 (PCT/JP2014/075569)
[87] (WO2015/046403)
[30] JP (2013-199853) 2013-09-26

[11] **2,925,156**
[13] C

[51] **Int.Cl. A61B 18/12 (2006.01) A61B 18/18 (2006.01) A61N 5/02 (2006.01) H01P 1/213 (2006.01)**
[25] EN
[54] **ELECTROSURGICAL APPARATUS**
[54] **APPAREIL ELECTROCHIRURGICAL**
[72] HANCOCK, CHRISTOPHER PAUL, GB
[72] WHITE, MALCOLM, GB
[72] AMOAH, FRANCIS, GB
[72] DHARMISIRI, NUWAN, GB
[73] CREO MEDICAL LIMITED, GB
[85] 2016-03-23
[86] 2013-09-16 (PCT/GB2013/052413)
[87] (WO2014/049332)
[30] GB (1217247.4) 2012-09-27

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[11] **2,925,683**
[13] C

[51] **Int.Cl. E02D 31/02 (2006.01)**
[25] EN
[54] **MECHANICALLY DETACHABLE
MEMBRANE FOR PRE-APPLIED
WATERPROOFING**
[54] **MEMBRANE DETACHABLE
MECANIQUEMENT DE LA
STRUCTURE D'ETANCHEITE
EXISTANTE**
[72] HORSTMAN, ERIC K., US
[72] SOVEY, CASEY, US
[73] TREMCO INCORPORATED, US
[86] (2925683)
[87] (2925683)
[22] 2016-03-30
[30] US (62/140,528) 2015-03-31

[11] **2,926,008**
[13] C

[51] **Int.Cl. F16L 58/10 (2006.01) F16L
55/164 (2006.01) F16L 55/18 (2006.01)**
[25] EN
[54] **APPARATUS FOR DELIVERING
MATERIAL TO A PIPE**
[54] **APPAREIL POUR LA
DISTRIBUTION DE MATERIAU A
UNE CONDUITE**
[72] CHRISTOPHER, RICHARD, GB
[73] NU FLOW TECHNOLOGIES 2000
INC., CA
[85] 2016-03-31
[86] 2014-09-24 (PCT/GB2014/052897)
[87] (WO2015/044657)
[30] GB (1316936.2) 2013-09-24

[11] **2,926,029**
[13] C

[51] **Int.Cl. A21B 1/00 (2006.01)**
[25] EN
[54] **OVEN HAVING A ROTATING
DOOR**
[54] **FOUR COMPRENANT UNE
PORTE TOURNANTE**
[72] MCKEE, PHILIP R., US
[72] JOHNSON, ALEX WAYNE, US
[73] OVENTION, INC., US
[85] 2016-03-31
[86] 2014-10-02 (PCT/US2014/058836)
[87] (WO2015/051124)
[30] US (14/045,257) 2013-10-03

[11] **2,926,698**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) C07K
19/00 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR
T CELL SWITCHES AND USES
THEREOF**
[54] **COMMUTATEURS DE
LYMPHOCYTES T DES
RECEPTEURS D'ANTIGENE
CHIMERIQUES ET LEUR
UTILISATION**
[72] KIM, CHANHYUK, US
[72] YOUNG, TRAVIS, US
[72] CAO, YU, US
[72] MA, JENNIFER, US
[72] KIM, MINSOO, US
[72] PINKERTON, STEPHANIE, US
[72] SCHULTZ, PETER G., US
[73] THE SCRIPPS RESEARCH
INSTITUTE, US
[85] 2016-04-06
[86] 2014-10-15 (PCT/US2014/060713)
[87] (WO2015/057852)
[30] US (61/891,347) 2013-10-15
[30] US (61/895,704) 2013-10-25
[30] US (62/009,056) 2014-06-06

[11] **2,927,085**
[13] C

[51] **Int.Cl. A01B 3/00 (2006.01) A01B
17/00 (2006.01) A01B 63/111 (2006.01)**
[25] EN
[54] **DEPTH ADJUSTMENT DEVICE
FOR A PLOUGH SKIMMER**
[54] **DISPOSITIF DE REGLAGE DE LA
PROFONDEUR POUR CHARRUE
POUR LABOUR A PLAT**
[72] SIGMUNDSTAD, SVEIN, NO
[73] KVERNELAND GROUP
OPERATIONS NORWAY AS, NO
[85] 2016-04-12
[86] 2014-10-09 (PCT/NO2014/050191)
[87] (WO2015/057080)
[30] NO (20131387) 2013-10-18

[11] **2,927,426**
[13] C

[51] **Int.Cl. C08L 81/02 (2006.01) C08J
3/20 (2006.01) C08K 3/36 (2006.01)**
[25] EN
[54] **POLYARYLENE SULFIDE RESIN
POWDER/GRAIN COMPOSITION
AND METHOD FOR PRODUCING
SAME**
[54] **COMPOSITION DE POUDRE/DE
GRAINS DE RESINE DE
POLY(SULFURE D'ARYLENE), ET
SON PROCEDE DE PRODUCTION**
[72] WATANABE, KEI, JP
[72] TAKEDA, KAZUSADA, JP
[72] TAKEZAKI, HIROSHI, JP
[72] MAKITA, KEI, JP
[72] NISHIMURA, YOSUKE, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2016-04-13
[86] 2015-02-13 (PCT/JP2015/053971)
[87] (WO2015/129487)
[30] JP (2014-034174) 2014-02-25

[11] **2,927,619**
[13] C

[51] **Int.Cl. A61K 8/27 (2006.01) A61K
8/44 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ANTI-MALODOR ORAL CARE
COMPOSITION CONTAINING
ARGININE AND ZINC**
[54] **COMPOSITION D'HYGIENE
BUCCALE CONTRE LES
MAUVAISES ODEURS
CONTENANT DE L'ARGININE ET
DU ZINC**
[72] VAZQUEZ, JOE, US
[72] TRIVEDI, HARSH MAHENDRA, US
[72] KILPATRICK-LIVERMAN,
LATONYA, US
[72] LAVENDER, STACEY, US
[73] COLGATE-PALMOLIVE COMPANY,
US
[85] 2016-04-14
[86] 2013-12-19 (PCT/US2013/076354)
[87] (WO2015/094254)

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[11] **2,927,942**
[13] C

[51] **Int.Cl. B29C 70/50 (2006.01) B29B 15/12 (2006.01) B29B 11/16 (2006.01) B29C 43/48 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR IMPREGNATING FIBERS TO FORM A PREPREG**

[54] **PROCEDE ET SYSTEME D'IMPREGNATION DE FIBRES POUR FORMER UN PREIMPREGNE**

[72] JUNKER, SHAWN, US
[72] REYNOLDS, LARRY, US
[73] CYTEC INDUSTRIES INC., US
[85] 2016-04-18
[86] 2014-10-27 (PCT/US2014/062325)
[87] (WO2015/076981)
[30] US (61/907,561) 2013-11-22

[11] **2,928,267**
[13] C

[51] **Int.Cl. F02C 7/047 (2006.01) B64D 15/04 (2006.01) B64D 33/02 (2006.01) F01D 25/02 (2006.01)**

[25] EN

[54] **ANTI-ICING SYSTEM FOR AN AIRCRAFT**

[54] **SYSTEME DE DEGIVRAGE POUR UN AERONEF**

[72] NEWMAN, RICHARD, GB
[72] MCCAUSLAND, MICHAEL, GB
[73] SHORT BROTHERS PLC, IE
[85] 2016-04-20
[86] 2014-10-24 (PCT/GB2014/053174)
[87] (WO2015/059489)
[30] US (61/895,540) 2013-10-25

[11] **2,928,883**
[13] C

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/06 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **STABILISED MULTIPLE EMULSIONS AS SKIN PROTECTION PRODUCT**

[54] **EMULSIONS MULTIPLES STABILISEES EN TANT QUE PRODUIT DE PROTECTION DE LA PEAU**

[72] HEISLER, ECKHARD, DE
[72] MANGEN, THOMAS, DE
[72] KAMPS, NICOLE, DE
[73] DEB IP LIMITED, GB
[85] 2016-04-27
[86] 2014-10-29 (PCT/GB2014/053205)
[87] (WO2015/063471)
[30] DE (102013222164.9) 2013-10-31

[11] **2,929,416**
[13] C

[51] **Int.Cl. B60K 15/035 (2006.01)**

[25] EN

[54] **LIQUID VAPOR SEPARATOR DRAIN VALVE**

[54] **ROBINET DE VIDANGE A SEPARATION DE VAPEUR/LIQUIDE**

[72] MARLOW, GEORGE J., US
[72] HURLEY, DARRIN W., US
[73] FCA US LLC, US
[85] 2016-05-02
[86] 2014-11-06 (PCT/US2014/064203)
[87] (WO2015/069816)
[30] US (61/901,158) 2013-11-07
[30] US (14/530,075) 2014-10-31

[11] **2,929,571**
[13] C

[51] **Int.Cl. C11D 7/12 (2006.01) C11D 7/02 (2006.01) C11D 7/42 (2006.01)**

[25] EN

[54] **MULTIUSE, ENZYMATIC DETERGENT AND METHODS OF STABILIZING A USE SOLUTION**

[54] **DETERGENT ENZYMATIQUE A USAGE MULTIPLE ET PROCEDES DE STABILISATION D'UNE SOLUTION PRETE A L'EMPLOI**

[72] CHAN, WENDY, US
[72] STOKES, JENNIFER, US
[72] JENSEN, LYNDAL, US
[72] SILVERNAIL, CARTER M., US
[72] EVERSON, TERRENCE P., US
[72] LEGATT, GRAIG, US
[72] ORTMANN, NATHAN RICHARD, US
[72] HAMMEL, DEVON BEAU, US
[73] ECOLAB USA INC., US
[85] 2016-05-03
[86] 2014-11-10 (PCT/US2014/064740)
[87] (WO2015/070119)
[30] US (61/902,490) 2013-11-11

[11] **2,930,179**
[13] C

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[25] EN

[54] **IMPROVED WEB SERVER FOR STORING LARGE FILES**

[54] **SERVEUR INTERNET AMELIORE POUR MEMORISER DE GRANDS FICHIERS**

[72] COLACO, VERNON, US
[72] ACCOMAZZI, VITTORIO, CA
[73] INTERNATIONAL MEDICAL SOLUTIONS, INC., CA
[85] 2016-05-10
[86] 2013-12-17 (PCT/CA2013/001051)
[87] (WO2015/070313)
[30] US (14/082,115) 2013-11-16

[11] **2,930,412**
[13] C

[51] **Int.Cl. G06F 15/00 (2006.01) G06Q 50/00 (2012.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ENHANCED PERSONAL CARE**

[54] **PROCEDE ET APPAREIL POUR SOINS PERSONNELS AMELIORES**

[72] SALEM, AYMAN, US
[73] MORES, INC., US
[85] 2016-05-11
[86] 2014-11-10 (PCT/US2014/064849)
[87] (WO2015/073376)
[30] US (14/080,021) 2013-11-14

[11] **2,930,760**
[13] C

[51] **Int.Cl. A23F 5/16 (2006.01) A23F 5/10 (2006.01) B65D 81/20 (2006.01) B65D 90/44 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ACCELERATED OR CONTROLLED DEGASSING OF ROASTED COFFEE**

[54] **PROCEDE ET APPAREIL POUR LE DEGAZAGE ACCELERE OU CONTROLE DE CAFE TORREFIE**

[72] FU, YUCHENG, CA
[72] LEUNG, STEPHEN, CA
[73] 2266170 ONTARIO INC., CA
[85] 2016-05-16
[86] 2014-11-20 (PCT/CA2014/051107)
[87] (WO2015/074149)
[30] US (61/906,513) 2013-11-20

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[11] **2,931,192**
[13] C
[51] **Int.Cl. E21B 37/06 (2006.01)**
[25] EN
[54] **ANTI-AGGLOMERANTS FOR CONTROLLING GAS HYDRATES**
[54] **ANTI-AGGLOMERANTS POUR LA REGULATION D'HYDRATES DE GAZ**
[72] WEBBER, PETER A., US
[72] NAGAPPAYYA, SAHANA, US
[73] ECOLAB USA INC., US
[85] 2016-05-19
[86] 2014-10-08 (PCT/US2014/059730)
[87] (WO2015/080803)
[30] US (14/090,621) 2013-11-26

[11] **2,931,490**
[13] C
[51] **Int.Cl. B64C 25/58 (2006.01) B64C 25/62 (2006.01)**
[25] EN
[54] **AIRCRAFT LANDING GEAR ASSEMBLY**
[54] **DISPOSITIF DE TRAIN D'ATTERRISSAGE D'UN AERONEF**
[72] SCHMIDT, ROBERT KYLE, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (2931490)
[87] (2931490)
[22] 2016-05-25
[30] EP (15170283.4) 2015-06-02

[11] **2,932,170**
[13] C
[51] **Int.Cl. E04B 2/82 (2006.01) E04B 2/74 (2006.01)**
[25] EN
[54] **METHOD OF CONFIGURING WALLS**
[54] **PROCEDE DE CONFIGURATION DE PAROIS**
[72] GOSLING, GEOFF, CA
[72] SMED, MOGENS F., CA
[72] HARRIS, PATRICK JOHN, CA
[73] DIRTT ENVIRONMENTAL SOLUTIONS, LTD., CA
[85] 2016-05-30
[86] 2015-02-13 (PCT/US2015/015920)
[87] (WO2015/126762)
[30] US (61/942,601) 2014-02-20
[30] US (61/942,600) 2014-02-20
[30] US (61/942,602) 2014-02-20
[30] US (62/009,061) 2014-06-06
[30] US (62/009,557) 2014-06-09

[11] **2,932,187**
[13] C
[51] **Int.Cl. C07C 69/732 (2006.01) A61K 31/216 (2006.01) C07C 67/31 (2006.01) C07C 67/48 (2006.01) A61P 9/00 (2006.01) A61P 17/18 (2006.01)**
[25] EN
[54] **NEW SALVIANOLIC ACID COMPOUND T, PREPARATION METHOD THEREFOR, AND USE THEREOF**
[54] **NOUVEAU COMPOSE D'ACIDE SALVIANOLIQUE T, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] ZHOU, SHUIPING, CN
[72] LI, WEI, CN
[72] JIN, YUANPENG, CN
[72] LI, XINXIN, CN
[72] MA, XIAOHUI, CN
[72] ZHOU, WEI, CN
[72] HAN, MIN, CN
[72] LI, SHUMING, CN
[73] TASLY PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2016-02-29
[86] 2014-08-26 (PCT/CN2014/085154)
[87] (WO2015/027891)
[30] CN (201310384234.6) 2013-08-29

[11] **2,932,532**
[13] C
[51] **Int.Cl. A61K 47/30 (2006.01) B82Y 5/00 (2011.01) B82Y 40/00 (2011.01)**
[25] EN
[54] **MICROPARTICLES AND NANOPARTICLES HAVING NEGATIVE SURFACE CHARGES**
[54] **MICROPARTICULES ET NANOPARTICULES AYANT DES CHARGES DE SURFACE NEGATIVES**
[72] WU, BIN, US
[73] PHOSPHOREX, INC., US
[85] 2016-06-02
[86] 2013-12-04 (PCT/US2013/073019)
[87] (WO2014/089160)
[30] US (61/733,216) 2012-12-04

[11] **2,932,995**
[13] C
[51] **Int.Cl. D06H 7/00 (2006.01) B26D 7/20 (2006.01) D06H 7/24 (2006.01)**
[25] FR
[54] **CUTTING TABLE FOR CUTTING A FIBROUS PREFORM OBTAINED BY THREE-DIMENSIONAL WEAVING AND CUTTING METHOD USING SUCH A TABLE**
[54] **TABLE DE COUPE POUR LA DECOUPE D'UNE PREFORME FIBREUSE OBTENUE PAR TISSAGE TRIDIMENSIONNEL ET PROCEDE DE DECOUPE UTILISANT UNE TELLE TABLE**
[72] MATHON, RICHARD, FR
[73] SNECMA, FR
[85] 2016-06-07
[86] 2014-12-01 (PCT/FR2014/053092)
[87] (WO2015/086947)
[30] FR (1362408) 2013-12-11

[11] **2,933,203**
[13] C
[51] **Int.Cl. H04N 21/61 (2011.01) H04N 21/845 (2011.01)**
[25] EN
[54] **ROBUST LIVE OPERATION OF DASH**
[54] **OPERATION EN DIRECT ROBUSTE DE DASH**
[72] STOCKHAMMER, THOMAS, US
[73] QUALCOMM INCORPORATED, US
[85] 2016-06-08
[86] 2015-01-16 (PCT/US2015/011817)
[87] (WO2015/109228)
[30] US (61/928,381) 2014-01-16
[30] US (14/598,110) 2015-01-15

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[11] **2,933,617**
[13] C

- [51] **Int.Cl. A61L 27/12 (2006.01) A61L 24/02 (2006.01) C04B 35/447 (2006.01)**
[25] EN
[54] **MULTIPHASIC BONE GRAFT SUBSTITUTE MATERIAL**
[54] **MATERIAU MULTIPHASIQUE DE SUBSTITUTION D'UNE GREFFE OSSEUSE**
[72] MOSELEY, JON, US
[72] MACDOUGALL, JAMIE, US
[72] HARRIGAN, KATIE, US
[73] AGNOVOS HEALTHCARE, LLC, US
[85] 2016-06-10
[86] 2014-12-12 (PCT/US2014/069963)
[87] (WO2015/089373)
[30] US (61/915,837) 2013-12-13
[30] US (62/031,635) 2014-07-31

[11] **2,934,563**
[13] C

- [51] **Int.Cl. H01R 9/05 (2006.01) H01R 4/30 (2006.01) H01R 13/622 (2006.01)**
[25] EN
[54] **COAXIAL CABLE CONNECTOR WITH INTEGRAL RFI PROTECTION**
[54] **CONNECTEUR DE CABLE COAXIAL AYANT PROTECTION RFI INTEGREE**
[72] BURRIS, DONALD ANDREW, US
[73] CORNING OPTICAL COMMUNICATIONS RF LLC, US
[85] 2015-09-11
[86] 2014-03-11 (PCT/US2014/023374)
[87] (WO2014/150484)
[30] US (13/833,793) 2013-03-15

[11] **2,934,923**
[13] C

- [51] **Int.Cl. A23C 9/15 (2006.01) A23C 9/14 (2006.01) A23C 9/142 (2006.01)**
[25] EN
[54] **AN IMPROVED BEVERAGE AND METHOD OF MANUFACTURE**
[54] **BOISSON AMELIOREE ET PROCEDE DE FABRICATION**
[72] DAS, SHANTANU, NZ
[72] OLNEY, SONYA DIANNE, NZ
[72] SINGH, HARJINDER, NZ
[72] TANEJA, NAMRATA, NZ
[72] YE, AIQIAN, NZ
[73] GOODMAN FIELDER PTE. LTD, SG
[85] 2016-06-22
[86] 2014-05-07 (PCT/NZ2014/000083)
[87] (WO2015/099542)
[30] NZ (619422) 2013-12-23

[11] **2,935,158**
[13] C

- [51] **Int.Cl. A01B 13/08 (2006.01) A01B 49/02 (2006.01)**
[25] EN
[54] **ARRANGEMENT AND METHOD FOR DEEP SOIL PREPARATION**
[54] **ENSEMBLE ET PROCEDE DE PREPARATION DU SOL PROFOND**
[72] SKJAEVELAND, MAGNE, NO
[72] MORK, SINDRE KJEANG, NO
[73] KVERNELAND GROUP OPERATIONS NORWAY AS, NO
[85] 2016-06-27
[86] 2015-01-07 (PCT/NO2015/050001)
[87] (WO2015/108424)
[30] NO (20140046) 2014-01-16

[11] **2,935,920**
[13] C

- [51] **Int.Cl. F42B 12/50 (2006.01) F42B 8/12 (2006.01) F42B 12/40 (2006.01)**
[25] EN
[54] **PAYLOAD CARRYING ARRANGEMENT FOR A NON-LETHAL PROJECTILE**
[54] **AGENCEMENT DE SUPPORT DE CHARGE UTILE POUR PROJECTILE NON-LETAL**
[72] SULLIVAN, GREGORY BARRY, CA
[72] THRASHER, DEAN GREGORY, CA
[73] SECURITY DEVICES INTERNATIONAL, INC., US
[85] 2016-07-05
[86] 2014-06-30 (PCT/US2014/044892)
[87] (WO2015/105526)
[30] US (61/926,728) 2014-01-13

[11] **2,937,810**
[13] C

- [51] **Int.Cl. H04L 29/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PEER TO PEER COMMUNICATION**
[54] **SYSTEMES ET PROCEDES DE COMMUNICATION DE POSTE A POSTE**
[72] CHRISTMAS, COY, US
[72] MALPASS, LUKE, GB
[73] FASETTO, INC., US
[85] 2016-07-21
[86] 2015-01-20 (PCT/US2015/012063)
[87] (WO2015/112506)
[30] US (14/164,919) 2014-01-27

[11] **2,937,952**
[13] C

- [51] **Int.Cl. G06Q 40/04 (2012.01) H04W 4/14 (2009.01) H04L 12/16 (2006.01) H04L 12/58 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATICALLY GENERATING ORDER DATA BASED ON SOCIAL MEDIA MESSAGING**
[54] **SYSTEMES ET METHODES DE GENERATION AUTOMATIQUE DE DONNEES DE COMMANDE FONDEE SUR LA MESSAGERIE DE MEDIAS SOCIAUX**
[72] SANDRE, BRUNO, CA
[72] HAMILTON, MATTHEW, CA
[72] BARNETT, JONATHAN K., CA
[72] CHAN, PAUL MON-WAH, CA
[72] LEE, JOHN JONG SUK, CA
[72] DEL VECCHIO, ORIN, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2937952)
[87] (2937952)
[22] 2016-08-04
[30] US (62/201,392) 2015-08-05

[11] **2,938,436**
[13] C

- [51] **Int.Cl. C03B 23/03 (2006.01) C03B 35/16 (2006.01) C03B 35/24 (2006.01)**
[25] EN
[54] **FORMING STATION AND METHOD FOR FORMING A HOT GLASS SHEET WITH TRANSVERSE CURVATURE**
[54] **POSTE DE FORMAGE ET PROCEDE POUR FORMER UNE FEUILLE DE VERRE CHAUD AYANT UNE COURBURE TRANSVERSALE**
[72] NITSCHKE, DEAN M., US
[72] NITSCHKE, DAVID B., US
[73] GLASSTECH, INC., US
[85] 2016-07-29
[86] 2015-01-23 (PCT/US2015/012566)
[87] (WO2015/119785)
[30] US (14/174,245) 2014-02-06

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[11] **2,939,067**
[13] C

[51] **Int.Cl. B63B 1/06 (2006.01) B63B 35/12 (2006.01) B63B 35/08 (2006.01)**
[25] EN
[54] **SHIP FOR NAVIGATING IN ICY WATERS HAVING IMPROVED PROPULSION PERFORMANCES**
[54] **NAVIRE POUR NAVIGUER DANS DES EAUX GLACEES PRESENTANT DES PERFORMANCES DE PROPULSION AMELIOREES**
[72] LAVINI, GIANPIERO, IT
[73] FINCANTIERI S.P.A., IT
[85] 2016-08-08
[86] 2015-01-14 (PCT/IB2015/050279)
[87] (WO2015/125033)
[30] IT (PD2014A000034) 2014-02-18

[11] **2,939,476**
[13] C

[51] **Int.Cl. C07K 14/415 (2006.01) C07K 17/14 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **PEPTIDES, MAGNETIC PEPTIDES, IMMUNOSENSORS AND METHOD FOR DETECTING CELIAC DISEASE**
[54] **PEPTIDES, PEPTIDES MAGNETIQUES, IMMUNOCAPTEURS ET METHODE POUR DETECTER LA MALADIE COELIAQUE**
[72] PIVIDORI GURGO, MARIA ISABEL, ES
[72] KERGARAVAT, SILVINA VANESA, ES
[73] UNIVERSITAT AUTONOMA DE BARCELONA, ES
[85] 2016-08-11
[86] 2015-02-16 (PCT/ES2015/070097)
[87] (WO2015/121526)
[30] ES (P201430198) 2014-02-14

[11] **2,939,769**
[13] C

[51] **Int.Cl. C01B 3/38 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF SYNTHESIS GAS**
[54] **PROCEDE DE PRODUCTION DE GAZ DE SYNTHESE**
[72] DYBKJAER, IB (DECEASED), DK
[72] AASBERG-PETERSEN, KIM, DK
[73] HALDOR TOPSOE A/S, DK
[85] 2016-08-15
[86] 2015-02-26 (PCT/EP2015/053968)
[87] (WO2015/128395)
[30] DK (PA 2014 70095) 2014-02-28

[11] **2,939,799**
[13] C

[51] **Int.Cl. G06F 3/0481 (2013.01) G06F 3/0484 (2013.01)**
[25] EN
[54] **COMPOUND CONTROLS**
[54] **COMMANDES COMPOSEES**
[72] YOST, GREGG, US
[72] GOLDSHLAG, JOSHUA, US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2016-08-15
[86] 2015-02-24 (PCT/US2015/017222)
[87] (WO2015/130642)
[30] US (14/192,184) 2014-02-27

[11] **2,939,928**
[13] C

[51] **Int.Cl. G06T 5/50 (2006.01) G06F 3/01 (2006.01) H04N 5/225 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR IMPROVING, AUGMENTING OR ENHANCING VISION**
[54] **APPAREIL ET PROCEDE POUR OPTIMISER, AUGMENTER OU AMELIORER LA VISION**
[72] ANTAKI, PATRICK R., US
[72] DUNN, RONNIE, US
[72] LEMBURG, RUSSELL, US
[73] EVERGAZE, INC., US
[85] 2016-08-16
[86] 2015-02-19 (PCT/US2015/016717)
[87] (WO2015/127146)
[30] US (61/941,777) 2014-02-19

[11] **2,940,991**
[13] C

[51] **Int.Cl. A61M 39/22 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **ASPIRATORS**
[54] **ASPIRATEURS**
[72] GALLAGHER, GEORGE, AE
[73] NASOGASTRIC FEEDING SOLUTIONS LIMITED, GB
[85] 2016-08-26
[86] 2015-02-25 (PCT/GB2015/050539)
[87] (WO2015/128638)
[30] GB (1403597.6) 2014-02-28
[30] GB (1419542.4) 2014-11-03

[11] **2,941,205**
[13] C

[51] **Int.Cl. C22C 38/08 (2006.01) B23K 35/24 (2006.01) B23K 35/30 (2006.01) C21D 7/00 (2006.01) C22C 38/06 (2006.01)**
[25] FR
[54] **IRON-NICKEL ALLOY HAVING IMPROVED WELDABILITY**
[54] **ALLIAGE FER-NICKEL PRESENTANT UNE SOUDABILITE AMELIOREE**
[72] REYDET, PIERRE-LOUIS, FR
[72] JOUVENCEAU, FANNY, FR
[72] PANIER, ROLAND, FR
[73] APERAM, LU
[85] 2016-08-29
[86] 2014-03-14 (PCT/IB2014/059819)
[87] (WO2015/136333)

[11] **2,941,275**
[13] C

[51] **Int.Cl. H02P 25/02 (2016.01) H02K 99/00 (2014.01)**
[25] EN
[54] **EDDY CURRENT REPULSION MOTOR**
[54] **MOTEUR A REPULSION A COURANT DE FOUCAULT**
[72] TILLOTSON, BRIAN JAY, US
[72] ZENG, PENG, US
[73] THE BOEING COMPANY, US
[86] (2941275)
[87] (2941275)
[22] 2016-09-02
[30] US (14/933,333) 2015-11-05

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[11] **2,941,544**
[13] C

- [51] **Int.Cl. H04L 12/46 (2006.01)**
[25] EN
[54] **TUNNELLING TIME-CRITICAL MESSAGES BETWEEN SUBSTATIONS OVER WAN**
[54] **TUNNELLISATION DE MESSAGES CRITIQUES EN TERMES DE TEMPS ENTRE DES SOUS-STATIONS DANS UN RESEAU ETENDU**
[72] SIVANTHI, THANIKESAVAN, CH
[72] WIDMER, THEO, CH
[72] CACHIN, DOMINIQUE, CH
[72] LEEB, CHRISTIAN, CH
[72] MAAG, HANS-JOERG, CH
[72] BAG, GARGI, SE
[72] PALM, JOHAN, SE
[72] THRYBORN, LINUS, SE
[73] ABB POWER GRIDS SWITZERLAND AG, CH
[85] 2016-09-02
[86] 2015-02-06 (PCT/EP2015/052498)
[87] (WO2015/132039)
[30] EP (14158205.6) 2014-03-06

[11] **2,942,208**
[13] C

- [51] **Int.Cl. A01N 43/60 (2006.01) A01N 35/10 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITION COMPRISING AN ARYLOXYPHENOXYPROPIONATE AND A CYCLOHEXANEDIONE HERBICIDE**
[54] **COMPOSITION HERBICIDE COMPRENANT UN ARYLOXYPHENOXYPROPIONATE ET UN HERBICIDE A BASE DE BENZOYLCYCLOHEXANEDIONE**
[72] GUICHARD, AURELIEN, FR
[72] SEPULCHRE DE CONDE, CHRISTOPHE, FR
[73] ARYSTA LIFESCIENCE, FR
[85] 2016-09-09
[86] 2015-03-11 (PCT/FR2015/050606)
[87] (WO2015/136221)
[30] FR (14 51983) 2014-03-11
[30] FR (14 51982) 2014-03-11

[11] **2,942,726**
[13] C

- [51] **Int.Cl. A61M 16/04 (2006.01) A61M 16/00 (2006.01)**
[25] EN
[54] **SYSTEM AND ASSEMBLY FOR INFLATING AND MONITORING PRESSURE WITHIN A RETAINING CUFF**
[54] **SYSTEME ET ENSEMBLE DE GONFLAGE ET DE SURVEILLANCE DE PRESSION A L'INTERIEUR D'UN BALLONNET DE RETENUE**
[72] LOWENSTEIN, STEPHEN JAY, US
[72] RUBIN, KEITH, US
[72] SOLOVAY, KEN, US
[72] VANDERMEY, TIMOTHY, US
[72] LESSNAU, KLAUS, US
[72] COLE, MICHAEL R., US
[73] SEEDLINGS LIFE SCIENCE VENTURES, LLC., US
[85] 2016-09-13
[86] 2014-03-17 (PCT/US2014/030176)
[87] (WO2014/145411)
[30] US (61/788,458) 2013-03-15
[30] US (14/067,158) 2013-10-30

[11] **2,944,202**
[13] C

- [51] **Int.Cl. A23L 15/00 (2016.01) A23L 5/10 (2016.01) A23B 5/04 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING FROZEN FRIED EGGS**
[54] **METHODE DE PREPARATION D'OEUF S FRITS CONGELES**
[72] IZUEL SANZ, FRANCISCO JAVIER, ES
[73] INNOVATION FOODS 360, S.L., ES
[85] 2016-09-27
[86] 2014-11-03 (PCT/ES2014/070820)
[87] (WO2015/144945)
[30] ES (P201430457) 2014-03-28

[11] **2,944,858**
[13] C

- [51] **Int.Cl. B03C 7/08 (2006.01) B03C 7/00 (2006.01) B65G 15/44 (2006.01) F16G 1/14 (2006.01)**
[25] EN
[54] **IMPROVED CONTINUOUS BELT FOR BELT-TYPE SEPARATOR DEVICES**
[54] **COURROIE CONTINUE AMELIOREE ET DISPOSITIFS DE SEPARATEUR DU TYPE A COURROIE**
[72] FLYNN, KYLE P., US
[72] RIVERA-ORTIZ, JOSE L., US
[72] SERT, BULENT, US
[73] SEPARATION TECHNOLOGIES LLC, US
[85] 2016-10-04
[86] 2014-04-24 (PCT/US2014/035287)
[87] (WO2015/163883)

[11] **2,946,400**
[13] C

- [51] **Int.Cl. A61M 39/16 (2006.01) A61M 39/20 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL CAPS FOR MEDICAL CONNECTORS**
[54] **CAPUCHONS ANTIMICROBIENS POUR RACCORDS MEDICAUX**
[72] BURKHOLZ, JONATHAN KARL, US
[72] LIU, HUIBIN, US
[72] ISAACSON, S. RAY, US
[72] HARDING, WESTON F., US
[72] TRAINER, LAWRENCE J., US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2016-10-19
[86] 2015-04-14 (PCT/US2015/025791)
[87] (WO2015/164129)
[30] US (14/260,027) 2014-04-23

[11] **2,946,504**
[13] C

- [51] **Int.Cl. F02B 71/00 (2006.01) F01L 11/00 (2006.01) F02B 71/04 (2006.01)**
[25] EN
[54] **FREE PISTON ENGINE**
[54] **MOTEUR A PISTON LIBRE**
[72] YAAKOBY, SHAUL, IL
[73] AQUARIUS ENGINES (A.M.) LTD., IL
[85] 2016-10-20
[86] 2015-04-22 (PCT/IL2015/050425)
[87] (WO2015/162614)
[30] US (61/983,469) 2014-04-24

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[11] **2,947,542**
[13] C

[51] **Int.Cl. A21D 13/47 (2017.01) A23L 5/00 (2016.01) A21D 13/40 (2017.01) A21D 13/80 (2017.01)**

[25] EN

[54] **INTERIORLY SUPPORTED EDIBLE STRUCTURE AND RELATED METHODS**

[54] **STRUCTURE COMESTIBLE SOUTENUE INTERIEUREMENT ET METHODES ASSOCIEES**

[72] MAY, JASON, US

[73] MAY, JASON, US

[86] (2947542)

[87] (2947542)

[22] 2016-11-04

[30] US (14/948,358) 2015-11-22

[30] US (15/342,558) 2016-11-03

[11] **2,947,831**
[13] C

[51] **Int.Cl. E21B 47/12 (2012.01) E21B 47/24 (2012.01) E21B 47/16 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR GENERATING PULSES IN A FLUID COLUMN**

[54] **PROCEDE ET APPAREIL DE GENERATION D'IMPULSIONS DANS UNE COLONNE DE FLUIDE**

[72] SITKA, MARK ANTHONY, US

[72] CHAMBERS, LARRY DELYNN, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2016-11-02

[86] 2014-05-14 (PCT/US2014/000103)

[87] (WO2015/174951)

[11] **2,951,737**
[13] C

[51] **Int.Cl. A62C 27/00 (2006.01) A62C 3/00 (2006.01)**

[25] EN

[54] **NARROW-GAUGE LOCOMOTIVE SPECIAL FOR MAINTENANCE AND FIRE CONTROL IN TUNNELS**

[54] **LOCOMOTIVE ETROITE CONCUE POUR L'ENTRETIEN ET L'EXTINCTION D'INCENDIE DANS LES TUNNELS**

[72] LI, CONGLIN, CN

[73] LI, CONGLIN, CN

[85] 2016-12-09

[86] 2015-06-05 (PCT/CN2015/080847)

[87] (WO2016/015520)

[30] CN (201410364036.8) 2014-07-28

[11] **2,951,779**
[13] C

[51] **Int.Cl. C07C 29/14 (2006.01) C07C 27/04 (2006.01) C07C 31/20 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL FROM SUGARS**

[54] **PROCEDE POUR LA PREPARATION D'ETHYLENE GLYCOL A PARTIR DE SUCRES**

[72] MARUP OSMUNDSEN, CHRISTIAN, DK

[72] TAARNING, ESBEN, DK

[72] HOLM, MARTIN SPANGSBERG, GB

[73] HALDOR TOPSOE A/S, DK

[85] 2016-12-09

[86] 2015-06-29 (PCT/EP2015/064693)

[87] (WO2016/001136)

[30] EP (14174977.0) 2014-06-30

[11] **2,952,550**
[13] C

[51] **Int.Cl. D04H 1/4334 (2012.01) D04H 1/492 (2012.01) D04H 1/542 (2012.01) A47L 13/16 (2006.01) B01J 20/26 (2006.01) B32B 5/26 (2006.01) D04H 1/46 (2012.01) D04H 3/16 (2006.01)**

[25] EN

[54] **WATER ABSORBENT LAMINATE AND METHOD FOR PRODUCING SAME**

[54] **STRATIFIE ABSORBANT L'EAU ET SON PROCEDE DE PRODUCTION**

[72] NAKAYAMA, KAZUHISA, JP

[72] KIYOOKA, SUMITO, JP

[72] ARAIDA, YASUROU, JP

[73] KURARAY CO., LTD., JP

[85] 2016-12-15

[86] 2015-06-16 (PCT/JP2015/067342)

[87] (WO2015/194563)

[30] JP (2014-124491) 2014-06-17

[11] **2,952,833**
[13] C

[51] **Int.Cl. H04W 24/10 (2009.01)**

[25] EN

[54] **ULTRA RELIABLE LINK DESIGN CONCEPTION DE LIAISON ULTRA-FIABLE**

[72] JI, TINGFANG, US

[72] SMEE, JOHN EDWARD, US

[72] SORIAGA, JOSEPH, US

[72] BHUSHAN, NAGA, US

[72] AZARIAN YAZDI, KAMBIZ, US

[72] MUKKAVILLI, KRISHNA KIRAN, US

[72] GOROKHOV, ALEXEI YURIEVITCH, US

[72] GAAL, PETER, US

[73] QUALCOMM INCORPORATED, US

[85] 2016-12-16

[86] 2015-07-15 (PCT/US2015/040485)

[87] (WO2016/014304)

[30] US (62/027,623) 2014-07-22

[30] US (14/567,887) 2014-12-11

[11] **2,952,909**
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01)**

[25] EN

[54] **CONTROLLED PRESSURE PULSER FOR COILED TUBING MEASUREMENT WHILE DRILLING APPLICATIONS**

[54] **GENERATEUR D'IMPULSIONS DE PRESSION CONTROLEE POUR MESURES DE TUBAGES ENROULES DANS DES APPLICATIONS DE FORAGE**

[72] MACDONALD, ROBERT, US

[72] VECSEI, GABOR, US

[73] TELEDRIILL, INC., US

[73] MACDONALD, ROBERT, US

[73] VECSEI, GABOR, US

[85] 2016-12-19

[86] 2014-04-17 (PCT/US2014/034554)

[87] (WO2015/160355)

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[11] **2,952,916**
[13] C

[51] **Int.Cl. A61K 8/81 (2006.01) A61K 8/19 (2006.01) A61K 8/24 (2006.01) A61K 8/27 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS WITH IMPROVED RHEOLOGICAL PROPERTIES COMPRISING A METAL ION, POLYVINYLPIRROLIDONE, A POLYSACCHARIDE GUM, AND CARBOXYMETHYL CELLULOSE**

[54] **COMPOSITIONS POUR SOINS BUCCO-DENTAIRE POSSEDANT DES PROPRIETES RHEOLOGIQUES AMELIOREES COMPRENANT UN ION METALLIQUE, DE LA POLYVINYLPIRROLIDONE, UNE GOMME GLUCIDIQUE, ET DE LA CARBOXYMETHYLCELLULOSE**

[72] VEMISHETTI, KAVITA, US
[72] FRUGE, LINH, US
[72] PRENCIPE, MICHAEL, US
[73] COLGATE-PALMOLIVE COMPANY, US

[85] 2016-12-19
[86] 2014-06-20 (PCT/US2014/043420)
[87] (WO2015/195139)

[11] **2,953,001**
[13] C

[51] **Int.Cl. B32B 27/00 (2006.01) B32B 9/04 (2006.01)**

[25] EN

[54] **COLD SHRINK ARTICLE FOR ELECTRICAL DEVICE**

[54] **ARTICLE RETRECISSE A FROID POUR DISPOSITIF ELECTRIQUE**

[72] YU, HAIYANG, CN
[72] HUO, YANLI, BE
[72] ESSEGHIR, MOHAMED, US
[72] SENGUPTA, SAURAV, US
[72] COGEN, JEFFREY, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2016-12-20
[86] 2014-06-27 (PCT/CN2014/080971)
[87] (WO2015/196459)

[11] **2,953,395**
[13] C

[51] **Int.Cl. B62K 15/00 (2006.01)**

[25] EN

[54] **COMPACTABLE BICYCLE**

[54] **BICYCLETTE PLIANTE**

[72] BOUTAKIS, PETER, CA
[73] BOUTAKIS, PETER, CA

[85] 2016-12-22
[86] 2015-06-23 (PCT/CA2015/050584)
[87] (WO2015/196286)
[30] US (62/016,021) 2014-06-23

[11] **2,953,664**
[13] C

[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/32 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS TO SWITCH A WELD POWER OUTPUT**

[54] **METHODES ET APPAREIL DE COMMUTATION D'UNE SORTIE DE COURANT DE SOUDURE**

[72] RYAN, JOSEPH ROBERT, US
[72] BYRNE, JAMES ANDREW, US
[72] ACHTNER, RICHARD MARK, US
[72] SALSICH, ANTHONY VAN BERGEN, US

[73] ILLINOIS TOOL WORKS INC., US

[86] (2953664)
[87] (2953664)
[22] 2017-01-05
[30] US (15/062,775) 2016-03-07

[11] **2,954,563**
[13] C

[51] **Int.Cl. G01N 1/20 (2006.01) G01N 27/00 (2006.01) H01L 23/485 (2006.01)**

[25] EN

[54] **LOW SAMPLE VOLUME SENSING DEVICE**

[54] **DISPOSITIF DE DETECTION DE FAIBLE VOLUME D'ECHANTILLON**

[72] SAMPRONI, JENNIFER A., US
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US

[85] 2017-01-06
[86] 2015-07-09 (PCT/US2015/039695)
[87] (WO2016/007716)
[30] US (62/022,376) 2014-07-09

[11] **2,955,557**
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/00 (2006.01) A61K 31/167 (2006.01) A61K 31/192 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **AQUEOUS FORMULATION COMPRISING PARACETAMOL AND IBUPROFEN**

[54] **FORMULATION AQUEUSE COMPRENANT DU PARACETAMOL ET DE L'IBUPROFENE**

[72] JACOBSEN, THOMAS, LU
[73] HYLORIS PHARMACEUTICALS SA, BE

[85] 2017-01-18
[86] 2015-07-17 (PCT/EP2015/066466)
[87] (WO2016/009067)
[30] EP (PCT/EP2014/065544) 2014-07-18

[11] **2,956,941**
[13] C

[51] **Int.Cl. G02B 6/10 (2006.01) G02B 5/20 (2006.01) H01S 3/098 (2006.01)**

[25] EN

[54] **OPTICAL FIBER ASSEMBLY WITH ENHANCED FILTERING OF HIGHER-ORDER MODES**

[54] **ASSEMBLAGE DE FIBRE OPTIQUE A FILTRAGE AMELIORE DE MODES D'ORDRE SUPERIEUR**

[72] DELADURANTAYE, MARC, CA
[72] PARE, CLAUDE, CA
[72] LAPERLE, PIERRE, CA
[73] INSTITUT NATIONAL D'OPTIQUE, CA

[86] (2956941)
[87] (2956941)
[22] 2017-02-03
[30] US (62/294,525) 2016-02-12

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[11] **2,959,457**
[13] C

[51] **Int.Cl. C12N 15/56 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 9/24 (2006.01) C12P 19/14 (2006.01) C12N 9/42 (2006.01)**

[25] EN

[54] **POLYPEPTIDES HAVING XYLANASE ACTIVITY WITH A HIGH CONVERSION RATE OF XYLOSE-CONTAINING POLYSACCHARIDES**

[54] **POLYPEPTIDES AYANT UNE ACTIVITE XYLANASE AVEC UN TAUX DE CONVERSION ELEVE DE POLYSACCHARIDES CONTENANT DU XYLOSE**

[72] REISINGER, CHRISTOPH, DE
[72] GAMAUF, CHRISTIAN, DE
[72] KRAUS, MICHAEL, DE
[72] UNTERSTRASSER, ISABEL, DE
[72] MITROVIC, ALEKSANDRA, AT
[72] GLIEDER, ANTON, AT
[73] CLARIANT PRODUKTE (DEUTSCHLAND) GMBH, DE
[85] 2017-02-27
[86] 2015-08-24 (PCT/EP2015/069351)
[87] (WO2016/034449)
[30] EP (14003017.2) 2014-09-02

[11] **2,960,012**
[13] C

[51] **Int.Cl. G01N 33/574 (2006.01)**

[25] EN

[54] **SERINE PROTEASES AS BIOMARKERS FOR OVARIAN CANCER**

[54] **SERINE PROTEASES EN TANT QUE BIOMARQUEURS POUR LE CANCER DE L'OVAIRE**

[72] PECORA, ANDREW L., US
[72] SUH, K., STEPHEN, US
[72] TAMIR, AYALA, US
[73] PECORA, ANDREW L., US
[73] HACKENSACK UNIVERSITY MEDICAL CENTER, US
[85] 2017-02-28
[86] 2015-08-28 (PCT/US2015/047434)
[87] (WO2016/033464)
[30] US (62/043,290) 2014-08-28

[11] **2,960,619**
[13] C

[51] **Int.Cl. F16B 25/04 (2006.01) F16B 25/00 (2006.01)**

[25] EN

[54] **SCREW-TYPE FASTENER**

[54] **FIXATION DE TYPE VISSE**

[72] FALKENSTEIN, MICHAEL K., US
[72] LAJEWARDI, FARHAD, US
[73] THE HILLMAN GROUP, INC., US
[86] (2960619)
[87] (2960619)
[22] 2017-03-13
[30] US (62/317,717) 2016-04-04

[11] **2,960,625**
[13] C

[51] **Int.Cl. A61M 5/19 (2006.01) A61M 39/10 (2006.01)**

[25] EN

[54] **SOLUTION DELIVERY DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE DISTRIBUTION DE SOLUTION**

[72] CHANG, BYEONG SEON, US
[73] CHANG, BYEONG SEON, US
[85] 2017-03-08
[86] 2015-09-08 (PCT/US2015/049002)
[87] (WO2016/040360)
[30] US (62/048,089) 2014-09-09

[11] **2,961,309**
[13] C

[51] **Int.Cl. B65D 43/03 (2006.01) B65D 21/032 (2006.01) B65D 43/06 (2006.01) B65D 55/06 (2006.01)**

[25] EN

[54] **COVER FOR A CONTAINER**

[54] **COUVERCLE D'UN CONTENANT**

[72] LABRECQUE, JEAN-GABRIEL, CA
[72] MERCIER, STEPHANE, CA
[72] DEL ROSARIO ROY, DAISY, CA
[73] IPL NORTH AMERICA INC., CA
[86] (2961309)
[87] (2961309)
[22] 2017-03-16
[30] US (62/309,994) 2016-03-18

[11] **2,961,653**
[13] C

[51] **Int.Cl. A61N 5/06 (2006.01) A61M 21/00 (2006.01)**

[25] EN

[54] **DEVICE FOR SIGNAL TRANSMISSION TO THE EYE**

[54] **DISPOSITIF DE TRANSMISSION DE SIGNAL A L'OEIL**

[72] GEYER, MICHAEL, AT
[72] WALLERBERGER, MARK, AT
[73] POCKET SKY OG, AT
[85] 2017-03-17
[86] 2015-09-09 (PCT/AT2015/050224)
[87] (WO2016/049669)
[30] AT (A 50694/2014) 2014-09-29

[11] **2,962,125**
[13] C

[51] **Int.Cl. F22B 21/00 (2006.01) F01K 3/24 (2006.01) F22B 31/04 (2006.01) F22B 37/40 (2006.01) F22G 1/16 (2006.01)**

[25] EN

[54] **A HEAT RECOVERY UNIT AND POWER PLANT**

[54] **UNITE DE RECUPERATION DE CHALEUR ET CENTRALE ELECTRIQUE**

[72] STEVENSON, ERIC ROBERT, NL
[72] BERGMANS, STEPHAN CORNELIS GERARDUS, NL
[73] STORK THERMEQ B.V., NL
[85] 2017-03-22
[86] 2015-09-24 (PCT/EP2015/071950)
[87] (WO2016/046305)
[30] EP (14186586.5) 2014-09-26

[11] **2,962,131**
[13] C

[51] **Int.Cl. G01R 31/69 (2020.01) G01R 31/55 (2020.01)**

[25] EN

[54] **THREE-PHASE RECEPTACLE ELECTRICAL TESTER**

[54] **TESTEUR ELECTRIQUE A RECEPTACLES TRIPHASES**

[72] SUICA, THOMAS SAMUEL, US
[72] LISCINSKY, STEPHEN MICHAEL, III, US
[73] HUBBELL INCORPORATED, US
[85] 2017-03-21
[86] 2015-10-07 (PCT/US2015/054366)
[87] (WO2016/057598)
[30] US (14/508,852) 2014-10-07

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[11] **2,962,796**
[13] C

[51] **Int.Cl. B60N 2/58 (2006.01) B60N 2/56 (2006.01)**
[25] EN
[54] **THERMALLY CONDUCTIVE LEATHER**
[54] **CUIR THERMOCONDUCTEUR**
[72] KOZLOWSKI, ERIC, US
[73] MAGNA SEATING INC., CA
[86] (2962796)
[87] (2962796)
[22] 2017-03-30
[30] US (62/315,239) 2016-03-30

[11] **2,965,384**
[13] C

[51] **Int.Cl. A61L 27/56 (2006.01) A61F 2/28 (2006.01) A61F 2/30 (2006.01) A61L 27/12 (2006.01) A61L 27/46 (2006.01)**
[25] EN
[54] **BI-LAYERED BONE-LIKE SCAFFOLDS**
[54] **CHARPENTE DE TYPE OSSEUX A DEUX COUCHES**
[72] OH, DANIEL SUNHO, US
[72] ONG, ANSON, US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[86] (2965384)
[87] (2965384)
[22] 2008-08-08
[62] 2,695,946
[30] US (60/955,014) 2007-08-09

[11] **2,966,185**
[13] C

[51] **Int.Cl. A62B 7/02 (2006.01) B63C 11/02 (2006.01) B63C 11/20 (2006.01) B63C 11/26 (2006.01) F16L 3/015 (2006.01)**
[25] EN
[54] **INTEGRATED UMBILICAL DELIVERY SYSTEM FOR GAS, DATA COMMUNICATIONS ACQUISITION / DOCUMENTATION, ACCESSORY POWER AND SAFETY FOR USERS IN ADVERSE ENVIRONMENTS**
[54] **SYSTEME INTEGRE DE FOURNITURE OMBILICALE DE GAZ, ACQUISITION/DOCUMENTATION DE DONNEES/COMMUNICATIONS, ALIMENTATION ET SECURITE D'ACCESSOIRES POUR DES UTILISATEURS DANS DES ENVIRONNEMENTS HOSTILES**
[72] MESSNER, WILLIAM, US
[73] MESSNER, WILLIAM, US
[85] 2017-04-27
[86] 2014-12-23 (PCT/US2014/072009)
[87] (WO2015/100274)
[30] US (61/920,670) 2013-12-24
[30] US (61/946,854) 2014-03-02
[30] US (62/093,866) 2014-12-18

[11] **2,968,760**
[13] C

[51] **Int.Cl. C08L 95/00 (2006.01)**
[25] EN
[54] **POLYMER STABILIZERS FOR BITUMINOUS EMULSIONS**
[54] **STABILISANTS POLYMERES POUR EMULSIONS BITUMINEUSES**
[72] FRANKLIN, RALPH, US
[72] ZHOU, QIONG, US
[73] AKZO NOBEL CHEMICALS INTERNATIONAL B.V., NL
[85] 2017-05-24
[86] 2015-12-02 (PCT/EP2015/078320)
[87] (WO2016/087498)
[30] US (62/088,227) 2014-12-05
[30] EP (15152236.4) 2015-01-23

[11] **2,968,862**
[13] C

[51] **Int.Cl. C10G 50/02 (2006.01) C07C 407/00 (2006.01)**
[25] EN
[54] **UPGRADING PARAFFINS TO DISTILLATES AND LUBRICANT BASESTOCKS**
[54] **VALORISATION DE PARAFFINES EN DISTILLATS ET HUILES DE BASE LUBRIFIANTES**
[72] WANG, KUN, US
[72] HO, SUZZY CHEN HSI, US
[72] OLMSTEAD, WILLIAM N., US
[73] EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, US
[85] 2017-05-24
[86] 2015-12-02 (PCT/US2015/063394)
[87] (WO2016/099883)
[30] US (62/092,485) 2014-12-16
[30] US (14/956,477) 2015-12-02

[11] **2,968,972**
[13] C

[51] **Int.Cl. H04N 21/278 (2011.01) H04N 21/233 (2011.01) H04N 21/235 (2011.01) H04N 21/236 (2011.01) H04N 21/8352 (2011.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTINUOUS MEDIA SEGMENT IDENTIFICATION**
[54] **SYSTEME ET PROCEDE D'IDENTIFICATION DE SEGMENT MULTIMEDIA CONTINUE**
[72] HOARTY, W., LEO, US
[73] INSCAPE DATA, INC., US
[85] 2017-05-25
[86] 2015-11-30 (PCT/US2015/062945)
[87] (WO2016/089749)
[30] US (62/086,113) 2014-12-01

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[11] **2,969,371**
[13] C

[51] **Int.Cl. G06F 7/00 (2006.01) G06F 21/56 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FAST AND SCALABLE FUNCTIONAL FILE CORRELATION**
[54] **SYSTEME ET PROCEDE DE CORRELATION RAPIDE ET EXTENSIBLE DE FICHIERS FONCTIONNELS**
[72] PERICIN, TOMISLAV, RS
[73] REVERSING LABS HOLDING GMBH, CH
[85] 2017-05-31
[86] 2015-12-04 (PCT/EP2015/078716)
[87] (WO2016/087662)
[30] US (62/088,119) 2014-12-05

[11] **2,971,222**
[13] C

[51] **Int.Cl. C22B 1/00 (2006.01) C22B 3/04 (2006.01) C22B 15/00 (2006.01)**
[25] EN
[54] **METHODS FOR RAPIDLY LEACHING CHALCOPYRITE**
[54] **PROCEDES DE LIXIVIATION RAPIDE DE LA CHALCOPYRITE**
[72] CHAIKO, DAVID J., US
[72] ROCKS, SALLY, US
[73] FLSMIDTH A/S, DK
[85] 2017-06-15
[86] 2015-12-21 (PCT/US2015/067188)
[87] (WO2016/100981)
[30] US (62/094,895) 2014-12-19
[30] US (62/101,932) 2015-01-09
[30] US (62/141,741) 2015-04-01
[30] US (62/156,165) 2015-05-01
[30] US (62/195,204) 2015-07-21

[11] **2,971,265**
[13] C

[51] **Int.Cl. A61L 2/10 (2006.01) E03D 9/00 (2006.01)**
[25] EN
[54] **MULTI-WAVELENGTH ULTRAVIOLET LIGHT SANITIZING SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES D'ASSAINISSEMENT AU RAYONNEMENT ULTRAVIOLET MULTI LONGUEUR D'ONDE**
[72] LIN, CHAO-HSIN, US
[72] DYTIOCO, ROVELYN T., US
[72] NORRIS, SHARON L., US
[73] THE BOEING COMPANY, US
[86] (2971265)
[87] (2971265)
[22] 2017-06-16
[30] US (15/245,251) 2016-08-24

[11] **2,969,782**
[13] C

[51] **Int.Cl. G01S 11/00 (2006.01) B65G 43/00 (2006.01) B65G 43/08 (2006.01) G01S 11/06 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR POSITION TRACKING**
[54] **PROCEDES ET SYSTEMES POUR LE SUIVI DE POSITION**
[72] THILLAINADARAJAH, KUMARAN, CA
[72] MACDONALD, ADAM JOSEPH, CA
[72] ROGERS, DANIEL ROBERT, CA
[72] KAR, ABHISHEK, CA
[73] SMART SKIN TECHNOLOGIES INC., CA
[85] 2017-06-05
[86] 2015-12-04 (PCT/CA2015/051271)
[87] (WO2016/086312)
[30] US (62/088,312) 2014-12-05

[11] **2,971,241**
[13] C

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) C07D 401/14 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **NOVEL FXR (NR1H4) MODULATING COMPOUNDS**
[54] **NOUVEAUX COMPOSES MODULANT FXR (NR1H4)**
[72] KINZEL, OLAF, DE
[72] KREMOSER, CLAUS, DE
[72] BLOMGREN, PETER A., US
[72] CURRIE, KEVIN S., US
[72] KROPF, JEFFREY E., US
[72] SCHMITT, AARON C., US
[72] WATKINS, WILLIAM J., US
[72] XU, JIANJUN, US
[72] GEGER, CHRISTIAN, DE
[73] GILEAD SCIENCES, INC., US
[85] 2017-06-16
[86] 2015-12-14 (PCT/EP2015/002512)
[87] (WO2016/096116)
[30] EP (14004260.7) 2014-12-17

[11] **2,974,620**
[13] C

[51] **Int.Cl. C12N 5/10 (2006.01) C12N 5/0735 (2010.01) C07K 2/00 (2006.01) C07K 14/78 (2006.01) C07K 16/18 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **CELL CULTURE METHOD, CELL AGGREGATES, CELL AGGREGATION CONTROL AGENT, AND MEDIUM**
[54] **PROCEDE DE CULTURE CELLULAIRE, AGREGATS CELLULAIRES, AGENT DE REGULATION DE L'AGREGATION CELLULAIRE ET MILIEU**
[72] SAKAI, YASUYUKI, JP
[72] HORIZUCHI, IKKI, JP
[72] MATSUNAGA, KUMIKO, JP
[72] HAYASAKA, SHUNJI, JP
[73] THE UNIVERSITY OF TOKYO, JP
[73] SOMAR CORPORATION, JP
[85] 2017-07-21
[86] 2016-01-27 (PCT/JP2016/052398)
[87] (WO2016/121840)
[30] JP (2015-016045) 2015-01-29

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[11] **2,976,433**

[13] C

- [51] **Int.Cl. B28B 19/00 (2006.01)**
[25] EN
[54] **IMPROVEMENTS RELATING TO CONCRETE**
[54] **PERFECTIONNEMENTS APPORTES AU BETON**
[72] JONES, GRAEME, GB
[73] C-PROBE SYSTEMS LIMITED, GB
[85] 2017-08-11
[86] 2016-02-12 (PCT/GB2016/050349)
[87] (WO2016/128768)
[30] GB (1502356.7) 2015-02-12

[11] **2,976,702**

[13] C

- [51] **Int.Cl. H05K 9/00 (2006.01) H03H 1/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR ABSORBING ELECTRICAL NOISE**
[54] **DISPOSITIF POUR ABSORBER LE BRUIT ELECTRIQUE DE CABLES**
[72] WEIDINGER, ROBERT, AT
[72] TREBUCH, SIMON, AT
[72] SCHLEICH, HARALD, DE
[72] MUTSCH, STEFFEN, DE
[72] FIEBIG, NILS-HENNING, DE
[73] WURTH ELEKTRONIK EISOS GMBH & CO. KG, DE
[85] 2017-08-15
[86] 2016-02-25 (PCT/EP2016/053915)
[87] (WO2016/150638)
[30] DE (102015205193.5) 2015-03-23

[11] **2,977,631**

[13] C

- [51] **Int.Cl. A61G 5/12 (2006.01) A61G 5/00 (2006.01) A61G 5/10 (2006.01)**
[25] EN
[54] **A BRACKET SUPPORT**
[72] PATEL, ANIL RAMAN, GB
[73] MASCULL, ROGER THOMAS, NZ
[73] MASCULL, ELIZABETH JOCELYN, NZ
[85] 2017-08-23
[86] 2016-02-19 (PCT/NZ2016/050022)
[87] (WO2016/137338)
[30] NZ (705331) 2015-02-23

[11] **2,977,698**

[13] C

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[25] EN
[54] **TRANSVERSE RAIL SWITCHING ELEMENT**
[54] **ELEMENT DE COMMUTATION DE RAIL TRANSVERSAL**
[72] RUPP, DAVID ROBERT, US
[72] EMERICK-WHITSON, CYNTHIA LYNN, US
[73] DYNAMIC ATTRACTIONS LTD., CA
[85] 2017-08-24
[86] 2016-03-01 (PCT/CA2016/050213)
[87] (WO2016/138581)
[30] US (62/127,446) 2015-03-03

[11] **2,978,179**

[13] C

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[25] EN
[54] **TRANSMUCOSAL AND TRANSDERMAL DELIVERY SYSTEMS**
[54] **SYSTEMES D'ADMINISTRATION TRANSMUQUEUSE ET TRANSDERMIQUE**
[72] HALL, SEAN MICHAEL, AU
[72] VITETTA, LUIS, AU
[72] ZHOU, YUSI, AU
[72] RUTOLO, DAVID A., JR., US
[72] COULSON, SAMANTHA MAREE, AU
[73] MEDLAB CLINICAL U.S., INC., US
[85] 2017-08-29
[86] 2016-03-02 (PCT/US2016/020468)
[87] (WO2016/141069)
[30] US (62/127,220) 2015-03-02
[30] US (62/199,007) 2015-07-30

[11] **2,980,233**

[13] C

- [51] **Int.Cl. H04W 36/00 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND COMMUNICATIONS DEVICE**
[54] **PROCEDE DE COMMUNICATION ET DISPOSITIF DE COMMUNICATION**
[72] ZHANG, HONGPING, CN
[72] YAN, LE, CN
[72] WANG, XUEHUA, CN
[72] DAI, MINGZENG, CN
[72] GUO, YI, CN
[72] QIN, YILEI, CN
[72] CHEN, XIONGFEI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2017-09-19
[86] 2016-05-11 (PCT/CN2016/081749)
[87] (WO2017/024823)
[30] CN (201510496615.2) 2015-08-13

[11] **2,980,247**

[13] C

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[25] EN
[54] **THICK STEEL PLATE FOR STRUCTURAL PIPES OR TUBES, METHOD OF PRODUCING THICK STEEL PLATE FOR STRUCTURAL PIPES OR TUBES, AND STRUCTURAL PIPES AND TUBES**
[54] **TOLE D'ACIER EPAISSE POUR TUYAU DE CONSTRUCTION, PROCEDE POUR LA PRODUCTION DE TOLE D'ACIER EPAISSE POUR TUYAU DE CONSTRUCTION ET TUYAU DE CONSTRUCTION**
[72] OTA, SHUSAKU, JP
[72] SHIMAMURA, JUNJI, JP
[72] ISHIKAWA, NOBUYUKI, JP
[72] ENDO, SHIGERU, JP
[73] JFE STEEL CORPORATION, JP
[85] 2017-09-19
[86] 2016-03-25 (PCT/JP2016/001763)
[87] (WO2016/152170)
[30] JP (PCT/JP2015/001750) 2015-03-26

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[13] C

[51] **Int.Cl. H04N 19/61 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS OF NON-SQUARE INTRA PREDICTION FOR CHROMA COMPONENTS IN CODING SYSTEM WITH QUAD-TREE AND BINARY-TREE PARTITION**
[54] **PROCEDE ET APPAREIL D'INTRA-PREDICTION NON CARREE POUR COMPOSANTES DE CHROMINANCE DANS UN SYSTEME DE CODAGE AVEC DIVISION ENTRE UN ARBRE QUATERNAIRE ET UN ARBRE BINAIRE**
[72] CHEN, YI-WEN, CN
[72] AN, JICHENG, CN
[72] LIN, JIAN-LIANG, CN
[72] HUANG, YU-WEN, CN
[73] MEDIATEK INC., CN
[85] 2017-09-28
[86] 2016-03-31 (PCT/CN2016/077961)
[87] (WO2016/155641)
[30] CN (PCT/CN2015/075672) 2015-04-01

[11] **2,981,197**
[13] C

[51] **Int.Cl. H04B 7/06 (2006.01) H04B 7/04 (2017.01)**
[25] EN
[54] **WIRELESS COMMUNICATION SYSTEM, AND DEVICE AND METHOD IN WIRELESS COMMUNICATION SYSTEM**
[54] **SYSTEME DE COMMUNICATION SANS FIL, ET DISPOSITIF ET PROCEDE DANS UN SYSTEME DE COMMUNICATION SANS FIL**
[72] QIAN, CHEN, CN
[72] WANG, ZHAOCHENG, CN
[72] LIU, WENDONG, CN
[72] CHEN, JINHUI, CN
[73] SONY CORPORATION, JP
[85] 2017-09-28
[86] 2016-05-12 (PCT/CN2016/081848)
[87] (WO2016/184344)
[30] CN (201510250263.2) 2015-05-15

[11] **2,983,618**
[13] C

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/20 (2012.01) G06Q 20/34 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR TRANSFERRING FUNDS DATA**
[54] **PROCEDE ET SYSTEME POUR TRANSFERER DES DONNEES DE FONDS**
[72] DERMOSESSIAN, GARO, CA
[72] DERMOSESSIAN, RAPHAEL, CA
[72] DERMOSESSIAN, ALEX, CA
[73] PLEMICOR HOLDINGS CANADA INC., CA
[85] 2017-10-23
[86] 2015-04-22 (PCT/CA2015/000266)
[87] (WO2015/161358)
[30] US (61/982,391) 2014-04-22
[30] US (14/308,089) 2014-06-18

[11] **2,984,650**
[13] C

[51] **Int.Cl. F21V 21/02 (2006.01) F21V 21/10 (2006.01) F21V 21/108 (2006.01) F21V 21/35 (2006.01)**
[25] EN
[54] **RING POWER BAR HANGER FOR MODULAR LIGHTING SYSTEM**
[54] **SUPPORT DE BARRE D'ALIMENTATION ANNULAIRE DESTINE A UN SYSTEME D'ECLAIRAGE MODULAIRE**
[72] SONNEMAN, ROBERT A., US
[73] CONTEMPORARY VISIONS, LLC, US
[86] (2984650)
[87] (2984650)
[22] 2017-11-02
[30] US (62/419,505) 2016-11-09
[30] US (15/446,302) 2017-03-01

[11] **2,985,375**
[13] C

[51] **Int.Cl. H04L 5/00 (2006.01) H04L 27/00 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR TRANSMITTING ON MULTIPLE CARRIERS OF A SHARED RADIO FREQUENCY SPECTRUM BAND**
[54] **TECHNIQUES DE TRANSMISSION SUR DE MULTIPLES PORTEUSES D'UNE BANDE DE SPECTRE DE FREQUENCE RADIO PARTAGEE**
[72] ZHANG, XIAOXIA, US
[72] MALLIK, SIDDHARTHA, US
[72] YERRAMALLI, SRINIVAS, US
[72] YOO, TAESANG, US
[72] LUO, TAO, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-11-07
[86] 2016-05-19 (PCT/US2016/033332)
[87] (WO2016/209441)
[30] US (62/184,217) 2015-06-24
[30] US (15/157,612) 2016-05-18

[11] **2,985,517**
[13] C

[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/02 (2006.01)**
[25] EN
[54] **HIGH DEFINITION AND EXTENDED DEPTH OF FIELD INTRAOCULAR LENS**
[54] **LENTILLE INTRAOCULAIRE DE PROFONDEUR DE CHAMP ETENDUE ET DE HAUTE DEFINITION**
[72] SIMMS, JAMES J., US
[72] SARVER, EDWIN J., US
[73] Z OPTICS, INC., US
[85] 2017-11-08
[86] 2016-03-11 (PCT/US2016/022063)
[87] (WO2016/167906)
[30] US (14/686,233) 2015-04-14

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[11] **2,986,569**
[13] C

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[25] EN

[54] **METHOD AND SYSTEM FOR FRAUD CONTROL OF BLOCKCHAIN-BASED TRANSACTIONS**

[54] **PROCEDE ET SYSTEME ANTI-FRAUDE POUR TRANSACTIONS A BASE DE CHAINE DE BLOC**

[72] DAVIS, STEVEN CHARLES, US

[73] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2017-11-20

[86] 2016-05-06 (PCT/US2016/031253)

[87] (WO2016/186872)

[30] US (14/719,030) 2015-05-21

[11] **2,988,662**
[13] C

[51] **Int.Cl. G01N 33/49 (2006.01) A61B 5/00 (2006.01) G01N 21/64 (2006.01)**

[25] EN

[54] **TUNABLE OPTICAL RECEIVER**

[54] **RECEPTEUR OPTIQUE ACCORDABLE**

[72] BARRETT, LOUIS L., US

[73] FRESenius MEDICAL CARE HOLDINGS, INC., US

[85] 2017-12-06

[86] 2016-06-24 (PCT/US2016/039419)

[87] (WO2016/210368)

[30] US (62/183,792) 2015-06-24

[11] **2,989,225**
[13] C

[51] **Int.Cl. B65G 27/30 (2006.01)**

[25] EN

[54] **A SINGULATING VIBRATION FEEDER**

[54] **DISPOSITIF D'ALIMENTATION A VIBRATIONS POUR INDIVIDUALISATION**

[72] MUSIL, JIRI, CZ

[72] PETERSEN, ANDERS BLICHER, DK

[73] NEWTEC ENGINEERING A/S, DK

[85] 2017-11-30

[86] 2016-06-02 (PCT/DK2016/000025)

[87] (WO2016/192730)

[30] DK (PA 2015 00322) 2015-06-02

[11] **2,989,910**
[13] C

[51] **Int.Cl. A61B 8/00 (2006.01) A61B 8/08 (2006.01) A61B 8/14 (2006.01)**

[25] EN

[54] **OBSTETRICAL IMAGING AT THE POINT OF CARE FOR UNTRAINED OR MINIMALLY TRAINED OPERATORS**

[54] **IMAGERIE OBSTETRICALE SUR LE LIEU DE SOIN POUR MANIPULATEURS TRES PEU OU NON FORMES**

[72] FELTOVICH, HELEN, US

[72] HALL, TIMOTHY, US

[73] WISCONSIN ALUMNI RESEARCH FOUNDATION, US

[85] 2017-12-15

[86] 2016-06-27 (PCT/US2016/039497)

[87] (WO2017/003905)

[30] US (62/187,079) 2015-06-30

[11] **2,993,304**
[13] C

[51] **Int.Cl. C07D 231/12 (2006.01) A61K 31/506 (2006.01) A61P 37/00 (2006.01) C07D 213/40 (2006.01) C07D 239/26 (2006.01) C07D 239/36 (2006.01) C07D 239/42 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 413/04 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01)**

[25] EN

[54] **NOVEL COMPOUNDS AS ROR GAMMA MODULATORS**

[54] **NOUVEAUX COMPOSES UTILISES EN TANT QUE MODULATEURS DE ROR GAMMA**

[72] DAS, SANJIB, IN

[72] GHARAT, LAXMIKANT ATMARAM, IN

[72] HARDE, RAJENDRA LAXMAN, IN

[72] SHELKE, SANDEEP YADUNATH, IN

[72] PARDESHI, SHAILESH RAMESH, IN

[72] THOMAS, ABRAHAM, IN

[72] KHAIRATKAR-JOSHI, NEELIMA, IN

[72] SHAH, DAISY MANISH, IN

[72] BAJPAI, MALINI, IN

[73] GLENMARK PHARMACEUTICALS S.A., CH

[85] 2018-01-22

[86] 2016-08-02 (PCT/IB2016/054639)

[87] (WO2017/021879)

[30] IN (2930/MUM/2015) 2015-08-03

[11] **2,993,973**
[13] C

[51] **Int.Cl. C08K 9/10 (2006.01) B29B 9/00 (2006.01) C08J 3/22 (2006.01)**

[25] EN

[54] **ENCAPSULATED STABILIZER COMPOSITIONS**

[54] **COMPOSITIONS ENCAPSULEES DE STABILISANT**

[72] TIJHUIS, DINAND, NL

[72] TIJHUIS, ERWIN, NL

[72] KOZAKIEWICZ, JOSEPH, US

[72] ENG, JERRY MON HEL, US

[72] GUPTA, RAM B., US

[72] VANZIN, DAVID, US

[72] MAJMUDAR, SHAILESH, US

[73] CYTEC INDUSTRIES INC., US

[85] 2018-01-26

[86] 2016-07-29 (PCT/US2016/044721)

[87] (WO2017/023755)

[30] US (62/199,265) 2015-07-31

[11] **2,997,304**
[13] C

[51] **Int.Cl. H04L 27/38 (2006.01) H03M 13/11 (2006.01) H03M 13/27 (2006.01)**

[25] EN

[54] **BIT INTERLEAVER FOR LOW-DENSITY PARITY CHECK CODEWORD HAVING LENGTH OF 64800 AND CODE RATE OF 4/15 AND QUADRATURE PHASE SHIFT KEYING, AND BIT INTERLEAVING METHOD USING SAME**

[54] **ENTRELACEUR DE BITS POUR MOT CODE A CONTROLE DE PARITE FAIBLE DENSITE AYANT UNE LONGUEUR DE 64 800 BITS ET UN TAUX DE CODE DE 4/15 ET UNE MODULATION PAR DEPLACEMENT DE PHASE A QUATRE ETATS, ET PROCEDE A ENTRELACEMENT DE BITS UTILISANT CELUI-CI**

[72] PARK, SUNG-IK, KR

[72] KWON, SUN-HYOUNG, KR

[72] LEE, JAE-YOUNG, KR

[72] KIM, HEUNG-MOOK, KR

[72] HUR, NAM-HO, KR

[73] ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, KR

[86] (2997304)

[87] (2997304)

[22] 2015-01-27

[62] 2,880,079

[30] KR (10-2015-0009382) 2015-01-20

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[11] **2,997,418**
[13] C

[51] **Int.Cl. G07F 11/46 (2006.01)**
[25] EN
[54] **AUTOMATED VENDING
MACHINE WITH TRAY
TRANSPORT SYSTEM**
[54] **DISTRIBUTEUR AUTOMATIQUE
DOTE D'UN SYSTEME DE
TRANSPORT DE PLATEAUX**
[72] JAFFER, SHAMIRA, CA
[72] TREADWELL, SIMON, CA
[73] SIGNIFI SOLUTIONS INC., CA
[85] 2018-03-05
[86] 2016-12-02 (PCT/IB2016/057330)
[87] (WO2017/093975)
[30] US (62/263,208) 2015-12-04

[11] **2,997,608**
[13] C

[51] **Int.Cl. E21B 43/00 (2006.01) G05B
17/02 (2006.01) G06F 9/455 (2018.01)**
[25] EN
[54] **HISTORY MATCHING OF
HYDROCARBON PRODUCTION
FROM HETEROGENOUS
RESERVOIRS**
[54] **MISE EN CORRESPONDANCE
D'HISTORIQUE DE PRODUCTION
D'HYDROCARBURES A PARTIR
DE RESERVOIRS HETEROGENES**
[72] SINGH, AJAY PRATAP, US
[72] KHAN, HASNAIN A., US
[73] LANDMARK GRAPHICS
CORPORATION, US
[85] 2018-03-05
[86] 2015-12-18 (PCT/US2015/066672)
[87] (WO2017/065813)
[30] US (62/241,441) 2015-10-14

[11] **2,997,655**
[13] C

[51] **Int.Cl. A61K 6/887 (2020.01)**
[25] EN
[54] **DENTAL COMPOSITION
CONTAINING A
POLYMERIZATION INITIATOR
SYSTEM INCLUDING A
COMPOUND HAVING A SILYL
OR GERMANYL GROUP**
[54] **COMPOSITION DENTAIRE
CONTENANT UN SYSTEME
INITIATEUR DE
POLYMERISATION
COMPRENANT UN COMPOSE
AYANT UN GROUPE SILYLE OU
UN GROUPE GERMANYLE**
[72] KLEE, JOACHIM E., DE
[72] SZILLAT, FLORIAN, DE
[72] MAIER, MAXIMILIAN, DE
[72] RITTER, HELMUT, DE
[72] LALEVEE, JACQUES, FR
[72] FIK, CHRISTOPH P., CH
[72] FOUASSIER, JEAN PIERRE, FR
[72] MORLET-SAVARY, FABRICE, FR
[72] DIETLIN, CELINE, FR
[72] BOUZRATI-ZERELLI, MARIEM, FR
[73] DENTSPLY DETREY GMBH, DE
[85] 2018-03-06
[86] 2016-10-07 (PCT/EP2016/074049)
[87] (WO2017/060459)
[30] EP (15188969.8) 2015-10-08

[11] **2,998,431**
[13] C

[51] **Int.Cl. B61L 25/02 (2006.01) B61L
1/16 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING
THE SPEED OF A RAIL-BOUND
VEHICLE**
[54] **PROCEDE DE DETERMINATION
DE LA VITESSE D'UN VEHICULE
ROULANT SUR RAILS**
[72] OLDEWURTEL, KASSEN, DE
[73] THALES MANAGEMENT &
SERVICES DEUTSCHLAND GMBH,
DE
[85] 2018-03-12
[86] 2016-08-24 (PCT/EP2016/070015)
[87] (WO2017/045888)
[30] DE (10 2015 217 535.9) 2015-09-14

[11] **2,999,310**
[13] C

[51] **Int.Cl. A47C 7/14 (2006.01) A47C
3/025 (2006.01)**
[25] EN
[54] **STACKABLE CHAIR SUPPORTED
BY BELLOWS WITH MOTION
CONTROL**
[54] **CHAISE EMPILABLE SUPPORTEE
PAR UN SOUFFLET AVEC
COMMANDE DU MOUVEMENT**
[72] TOLAND, JAMIE, US
[72] GREGORY, JOHN, US
[72] FLETCHER, SCOTT LLOYD, US
[73] VIRCO MFG. CORPORATION, US
[86] (2999310)
[87] (2999310)
[22] 2018-03-26
[30] US (62/477,348) 2017-03-27

[11] **3,000,161**
[13] C

[51] **Int.Cl. G06F 9/50 (2006.01) G06F
11/34 (2006.01)**
[25] EN
[54] **DISTRIBUTED STREAM-BASED
DATABASE TRIGGERS**
[54] **DECLENCHEURS DE BASE DE
DONNEES A BASE DE FLUX
DISTRIBUE**
[72] POL, PARIKSHIT SHIVAJIRAO, US
[72] SUBRAMANIAN, SUBRAMANIAN
SANKARA, US
[72] LOGANATHAN, RAJAPRABHU
THIRUCHI, US
[72] POKKUNURI, RAMA KRISHNA
SANDEEP, US
[72] DUDDI, GOPINATH, US
[72] VIG, AKSHAT, US
[72] MOHIUDDIN, SAFEER, US
[72] NARASIMHAN, SUDARSHAN, US
[73] AMAZON TECHNOLOGIES, INC.,
US
[85] 2018-03-27
[86] 2016-09-26 (PCT/US2016/053822)
[87] (WO2017/058734)
[30] US (14/868,236) 2015-09-28

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[11] **3,000,507**
[13] C

[51] **Int.Cl. B03D 1/02 (2006.01) B01D 21/00 (2006.01) B02C 23/12 (2006.01) B03D 1/018 (2006.01) B03D 1/14 (2006.01)**

[25] EN

[54] **MINERAL BENEFICIATION UTILIZING ENGINEERED MATERIALS FOR MINERAL SEPARATION AND COARSE PARTICLE RECOVERY**

[54] **ENRICHISSEMENT DE MINERAUX UTILISANT DES MATERIAUX MODIFIES POUR LA SEPARATION DES MINERAUX ET LA RECUPERATION DE GROSSES PARTICULES**

[72] ROTHMAN, PAUL J., US
[72] FERNALD, MARK R., US
[72] AMELUNXEN, PETER A., CA
[73] CIDRA CORPORATE SERVICES INC., US

[85] 2018-03-28
[86] 2016-10-17 (PCT/US2016/057322)
[87] (WO2017/066752)
[30] US (62/242,545) 2015-10-16

[11] **3,001,205**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01) B60L 53/60 (2019.01) B60S 5/00 (2006.01) F24F 5/00 (2006.01) H02J 7/02 (2016.01) H05K 7/20 (2006.01)**

[25] EN

[54] **ELECTRICAL VEHICLE CHARGING SYSTEM FOR CHARGING AN ELECTRICAL VEHICLE**

[54] **SYSTEME DE CHARGE DE VEHICULE ELECTRIQUE POUR CHARGER UN TEL VEHICULE**

[72] ZOON, WIEBE, NL
[73] ABB SCHWEIZ AG, CH
[86] (3001205)
[87] (3001205)
[22] 2018-04-11
[30] EP (17165942.8) 2017-04-11

[11] **3,001,456**
[13] C

[51] **Int.Cl. H01H 13/83 (2006.01)**

[25] EN

[54] **WIRELESS CONTROL DEVICE HAVING A FACEPLATE WITH ILLUMINATED INDICIA**

[54] **DISPOSITIF DE COMMANDE SANS FIL AYANT UNE PLAQUE FRONTALE AVEC SYMBOLES LUMINEUX**

[72] GAGE, ALEXANDER WADE, US
[72] MCDONALD, MATTHEW PHILIP, US
[72] SHIVELL, WILLIAM TAYLOR, US
[72] SIMCHAYOFF, ALAN, US
[72] VINOKUROV, DMITRIY, US
[73] LUTRON ELECTRONICS CO., INC., US

[85] 2018-04-09
[86] 2016-10-07 (PCT/US2016/056110)
[87] (WO2017/062851)
[30] US (62/239,741) 2015-10-09

[11] **3,002,866**
[13] C

[51] **Int.Cl. B65D 63/00 (2006.01) B65D 63/10 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SECURING ITEMS**

[54] **SYSTEMES ET PROCEDES POUR FIXER DES ARTICLES**

[72] MARTINSON, DANIEL J., US
[73] NITE IZE, INC., US

[85] 2018-04-20
[86] 2017-01-04 (PCT/US2017/012191)
[87] (WO2017/120238)
[30] US (62/274,650) 2016-01-04

[11] **3,003,285**
[13] C

[51] **Int.Cl. G09B 23/30 (2006.01) B29C 70/30 (2006.01) C08J 5/04 (2006.01) C08K 7/02 (2006.01) C08L 29/04 (2006.01) A61L 27/16 (2006.01)**

[25] EN

[54] **STIMULATED FIBROUS TISSUE FOR SURGICAL TRAINING**

[54] **TISSUS FIBREUX STIMULES DESTINES A LA FORMATION EN CHIRURGIE**

[72] WHITTON, GREGORY ALLAN, CA
[72] KERINS, FERGAL, CA
[72] TYLER, BRANDON WILLIAM RUSSELL, CA

[73] SYNAPTIVE MEDICAL INC., CA

[86] (3003285)
[87] (3003285)
[22] 2018-05-01
[30] US (15/587,438) 2017-05-05

[11] **3,004,217**
[13] C

[51] **Int.Cl. H04B 10/11 (2013.01) G08B 25/01 (2006.01) G08C 23/04 (2006.01)**

[25] EN

[54] **LIFI ENABLED GUARD SECURITY SYSTEM**

[54] **SYSTEME DE BARRIERE DE SECURITE ACTIONNE PAR LIFI**

[72] LATHEEF, RINAS PUTHUVEETIL ABDUL, US
[72] CHERUVALLY, ARAVINDAN, US
[72] MYLADAN, JAREESH, US
[72] KUMARACHERIL, RANJIT MATHEW, US

[73] HONEYWELL INTERNATIONAL INC., US

[86] (3004217)
[87] (3004217)
[22] 2018-05-07
[30] US (15/618,065) 2017-06-08

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[11] **3,005,106**
[13] C
[51] **Int.Cl. G01C 11/08 (2006.01) G06T 7/593 (2017.01)**
[25] EN
[54] **METHOD FOR PRODUCING A DEPTH MAP**
[54] **PROCEDE D'ELABORATION D'UNE CARTE DE PROFONDEUR**
[72] BIRCHBAUER, JOSEF ALOIS, AT
[72] WAKOLBINGER, STEFAN, AT
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[85] 2018-05-11
[86] 2016-12-07 (PCT/EP2016/080055)
[87] (WO2017/097827)
[30] DE (10 2015 224 854.2) 2015-12-10

[11] **3,005,135**
[13] C
[51] **Int.Cl. H04S 3/02 (2006.01)**
[25] EN
[54] **SIGNAL PROCESSING METHODS AND SYSTEMS FOR RENDERING AUDIO ON VIRTUAL LOUDSPEAKER ARRAYS**
[54] **PROCEDES ET SYSTEMES DE TRAITEMENT DE SIGNAL POUR RESTITUER UN AUDIO SUR DES RESEAUX DE HAUT-PARLEURS VIRTUELS**
[72] BOLAND, FRANCIS MORGAN, US
[73] GOOGLE LLC, US
[85] 2018-05-10
[86] 2017-02-08 (PCT/US2017/017000)
[87] (WO2017/142759)
[30] US (62/296,934) 2016-02-18
[30] US (15/426,629) 2017-02-07

[11] **3,005,717**
[13] C
[51] **Int.Cl. H02M 3/137 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **WIDE-INPUT-RANGE DOWNHOLE POWER SUPPLY**
[54] **ALIMENTATION EN COURANT DE FOND DE TROU, A LARGE GAMME D'ENTREE**
[72] CHU, JIANYING, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2018-05-17
[86] 2016-02-17 (PCT/US2016/018203)
[87] (WO2017/142521)

[11] **3,007,591**
[13] C
[51] **Int.Cl. F03D 80/40 (2016.01) F03D 17/00 (2016.01)**
[25] EN
[54] **ELECTRO-THERMAL HEATING FOR WIND TURBINE BLADE**
[54] **CHAUFFAGE ELECTROTHERMIQUE POUR AUBE D'EOLIENNE**
[72] BUGGY, STEPHEN, GB
[72] SPANDLEY, LUKE, GB
[72] BADGER, PAUL, GB
[73] VESTAS WIND SYSTEMS A/S, DK
[85] 2018-06-06
[86] 2016-12-22 (PCT/DK2016/050463)
[87] (WO2017/108064)
[30] DK (PA 2015 70870) 2015-12-23

[11] **3,007,844**
[13] C
[51] **Int.Cl. H04L 29/06 (2006.01)**
[25] EN
[54] **COMPUTER NETWORK THREAT ASSESSMENT**
[54] **EVALUATION DE MENACE DE RESEAU INFORMATIQUE**
[72] REYBOK, RICHARD, JR., US
[72] RHINES, JEFFREY, US
[72] ZETTLE, KURT JOSEPH, II, US
[72] GEDDES, HENRY, US
[73] SERVICENOW, INC., US
[85] 2018-06-07
[86] 2016-12-09 (PCT/US2016/065765)
[87] (WO2017/100534)
[30] US (62/266,435) 2015-12-11

[11] **3,008,243**
[13] C
[51] **Int.Cl. A61B 18/18 (2006.01) H01Q 9/30 (2006.01) H01Q 15/14 (2006.01)**
[25] EN
[54] **MICROWAVE AND RADIOFREQUENCY ENERGY-TRANSMITTING TISSUE ABLATION SYSTEMS**
[54] **SYSTEMES D'ABLATION DE TISSUS TRANSMETTANT L'ENERGIE DE MICRO-ONDES ET DE FREQUENCES RADIO**
[72] BRANNAN, JOSEPH D., US
[72] LARSON, ERIC W., US
[73] COVIDIEN LP, US
[86] (3008243)
[87] (3008243)
[22] 2018-06-14
[30] US (15/626,867) 2017-06-19

[11] **3,009,259**
[13] C
[51] **Int.Cl. G01N 21/64 (2006.01) C12M 1/34 (2006.01) G01N 17/00 (2006.01) G01N 21/85 (2006.01) G01N 21/94 (2006.01) G01N 33/18 (2006.01) G01N 33/34 (2006.01) G06K 9/78 (2006.01)**
[25] EN
[54] **A METHOD AND AN APPARATUS FOR MONITORING AND CONTROLLING DEPOSIT FORMATION**
[54] **PROCEDE ET APPAREIL PERMETTANT DE SURVEILLER ET DE REGLER UNE FORMATION DE DEPOT**
[72] PIIRONEN, MARJATTA, FI
[72] JOENSUU, IIRIS, FI
[72] HESAMPOUR, MEHRDAD, FI
[72] EKMAN, JAAKKO, FI
[73] KEMIRA OYJ, FI
[85] 2018-06-20
[86] 2016-12-21 (PCT/FI2016/050907)
[87] (WO2017/109287)
[30] FI (20156009) 2015-12-23

[11] **3,009,845**
[13] C
[51] **Int.Cl. B01D 3/00 (2006.01) B01J 19/30 (2006.01)**
[25] EN
[54] **STRUCTURED ELEMENTS AND METHODS OF USE**
[54] **ELEMENTS STRUCTURES ET PROCEDES D'UTILISATION**
[72] GLOVER, JOHN, US
[72] SCHNEIDER, AUSTIN, US
[72] HAM, PETER GREGORY, US
[73] CRYSTAPHASE PRODUCTS, INC., US
[85] 2018-06-26
[86] 2016-12-30 (PCT/US2016/069396)
[87] (WO2017/117492)
[30] US (62/273,590) 2015-12-31
[30] US (62/294,718) 2016-02-12

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[11] **3,010,331**
[13] C

[51] **Int.Cl. C08F 20/60 (2006.01) B29D 11/00 (2006.01) C08F 20/34 (2006.01) C08J 3/075 (2006.01) G02B 1/04 (2006.01) G02B 5/22 (2006.01) G02C 7/04 (2006.01)**

[25] EN

[54] **UV-ABSORBING VINYLIC MONOMERS AND USES THEREOF**

[54] **MONOMERES VINYLIQUES ABSORBANT LES UV ET LEURS UTILISATIONS**

[72] CHANG, FRANK, US
[72] DESOUSA, RYAN, US
[72] HOLLAND, TROY VERNON, US
[72] PRUITT, JOHN DALLAS, US
[72] NELSON, JARED, US
[73] ALCON INC., US
[85] 2018-07-03
[86] 2017-02-16 (PCT/IB2017/050875)
[87] (WO2017/145024)
[30] US (62/298,137) 2016-02-22

[11] **3,010,550**
[13] C

[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/52 (2006.01) B01D 53/77 (2006.01) C07C 47/127 (2006.01) C07C 211/03 (2006.01) C07C 211/09 (2006.01) C10G 29/20 (2006.01) C10G 29/22 (2006.01) C10G 29/24 (2006.01) C10L 3/10 (2006.01)**

[25] EN

[54] **HYDROGEN SULFIDE SCAVENGING ADDITIVE COMPOSITION AND METHOD OF USE THEREOF.**

[54] **COMPOSITION ADDITIVE DE RECUPERATION DE SULFURE D'HYDROGENE ET METHODE D'UTILISATION**

[72] SUBRAMANIAM, MAHESH, IN
[73] DORF KETAL CHEMICALS (INDIA) PRIVATE LIMITED, IN
[85] 2018-07-04
[86] 2016-12-26 (PCT/IB2016/058008)
[87] (WO2017/118896)
[30] IN (201621000398) 2016-01-05

[11] **3,012,964**
[13] C

[51] **Int.Cl. G07F 11/46 (2006.01) G07F 11/60 (2006.01)**

[25] EN

[54] **AUTOMATED KIOSK FOR TRANSPORTING AN ITEM WITH A TRAY**

[54] **KIOSQUE AUTOMATISE POUR LE TRANSPORT D'UN ARTICLE AVEC UN PLATEAU**

[72] JIN, YONG SUK, CA
[72] JAFFER, SHAMIRA, CA
[73] SIGNIFI SOLUTIONS INC., CA
[85] 2018-07-27
[86] 2017-03-07 (PCT/IB2017/051340)
[87] (WO2017/153920)
[30] US (62/305,718) 2016-03-09

[11] **3,013,956**
[13] C

[51] **Int.Cl. F04B 35/04 (2006.01) F04B 49/06 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING A STATIONARY HYDRAULIC PUMPING SYSTEM, AND CORRESPONDING CONTROL DEVICE AND PUMPING SYSTEM**

[54] **PROCEDE POUR COMMANDER UN SYSTEME DE POMPAGE HYDRAULIQUE STATIONNAIRE, ET DISPOSITIF DE COMMANDE ET SYSTEME DE POMPAGE CORRESPONDANTS**

[72] URIONA, LEONARDO, DE
[72] KLEIN, MANUEL, DE
[72] EICHSTETTER, EDWARD, DE
[73] EKU POWER DRIVES GMBH, DE
[85] 2018-08-08
[86] 2017-02-03 (PCT/EP2017/052345)
[87] (WO2017/137317)
[30] DE (10 2016 102 220.9) 2016-02-09

[11] **3,014,031**
[13] C

[51] **Int.Cl. E21B 3/02 (2006.01) E21B 7/00 (2006.01) E21B 17/18 (2006.01)**

[25] EN

[54] **DOUBLE HEAD DRILLING DEVICE AND METHOD FOR PRODUCING A BORE**

[54] **APPAREIL DE FORAGE A DOUBLE TETE ET METHODE DE PRODUCTION D'UN TROU**

[72] PIKOWSKI, ANDREAS, DE
[72] MERZHAUSER, MARKUS, DE
[72] UELHOFF, HENRIK, DE
[73] EURODRILL GMBH, DE
[86] (3014031)
[87] (3014031)
[22] 2018-08-14
[30] EP (17 191 865.9) 2017-09-19

[11] **3,014,049**
[13] C

[51] **Int.Cl. B25J 13/00 (2006.01) B65F 7/00 (2006.01) B65G 43/00 (2006.01) B65G 47/46 (2006.01) G06K 9/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING PROCESSING OF A VARIETY OF OBJECTS EMPLOYING MOTION PLANNING**

[54] **SYSTEMES ET PROCEDES DE REALISATION DU TRAITEMENT DE DIVERS OBJETS EN UTILISANT LA PLANIFICATION DE MOUVEMENTS**

[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHEKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW, 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, INC., US
[85] 2018-08-08
[86] 2017-02-08 (PCT/US2017/016933)
[87] (WO2017/139330)
[30] US (62/292,538) 2016-02-08

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[11] **3,014,096**
[13] C

[51] **Int.Cl. B07C 3/14 (2006.01)**
[25] EN
[54] **METHOD FOR SORTING PIECES OF LUGGAGE AND LUGGAGE SORTING SYSTEM**
[54] **PROCEDE POUR TRIER DES BAGAGES ET SYSTEME DE TRI DE BAGAGES**
[72] BERGER, GISBERT, DE
[72] DELIANSKI, SVETLOZAR, DE
[72] DENGLE, ULRICH, DE
[72] ROTTLAND, JORG, DE
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[85] 2018-08-09
[86] 2016-11-15 (PCT/EP2016/077724)
[87] (WO2017/137106)
[30] EP (16155151.0) 2016-02-11

[11] **3,015,802**
[13] C

[51] **Int.Cl. G06K 9/20 (2006.01) A61B 5/1171 (2016.01) A61B 3/14 (2006.01) G06K 9/78 (2006.01) G06F 21/32 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF BIOMETRIC ACQUISITION USING POSITIVE OPTICAL DISTORTION**
[54] **SYSTEMES ET METHODES D'ACQUISITION BIOMETRIQUE AU MOYEN DE DISTORSION OPTIQUE**
[72] CARTER, THOMAS E., II, US
[73] EYELOCK, LLC, US
[86] (3015802)
[87] (3015802)
[22] 2018-08-29
[30] US (62/552,852) 2017-08-31

[11] **3,017,277**
[13] C

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/15 (2006.01)**
[25] EN
[54] **OSTEOTOMY GUIDE**
[54] **GABARIT D'OSTEOTOMIE**
[72] WOODARD, JOSEPH RYAN, US
[72] LUTTRELL, PAUL, US
[72] MULLER, ERIN, US
[72] FREE, DANIEL E., US
[72] MOORE, JESSE G., US
[73] WRIGHT MEDICAL TECHNOLOGY, INC., US
[86] (3017277)
[87] (3017277)
[22] 2018-09-13
[30] US (16/100,308) 2018-08-10

[11] **3,017,612**
[13] C

[51] **Int.Cl. B01D 53/04 (2006.01) B01D 53/047 (2006.01)**
[25] EN
[54] **APPARATUS AND SYSTEM FOR SWING ADSORPTION PROCESSES RELATED THERETO**
[54] **APPAREIL ET SYSTEME POUR PROCEDES D'ADSORPTION MODULEE ASSOCIES**
[72] TAMMERA, ROBERT F., US
[72] KELLEY, BRUCE T., US
[72] CHIALVO, SEBASTIAN, US
[72] NAGAVARAPU, ANANDA K., US
[72] BARNES, WILLIAM, US
[72] FOWLER, TRACY A., US
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2018-09-12
[86] 2017-03-06 (PCT/US2017/020914)
[87] (WO2017/160521)
[30] US (62/310,289) 2016-03-18

[11] **3,018,062**
[13] C

[51] **Int.Cl. E21B 49/00 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **DETERMINING THE ROBUSTNESS OF DISCRETE FRACTURE NETWORK PERMEABILITY ESTIMATES**
[54] **DETERMINATION D'ESTIMATIONS DE ROBUSTESSE DE PERMEABILITE DE RESEAU DE FRACTURES DISCRETES**
[72] HOEINK, TOBIAS, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2018-09-17
[86] 2017-03-17 (PCT/US2017/022894)
[87] (WO2017/161230)
[30] US (15/074,621) 2016-03-18

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[11] **3,018,602**
[13] C

[51] **Int.Cl. C07D 403/04 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 403/14 (2006.01) C07D 413/04 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **PYRIMIDIN-4-YL IMIDAZOLIDINE-2-ONE DERIVATIVES AND COMPOSITIONS HAVING MUTANT IDH INHIBITORY ACTIVITY, PREPARATION METHOD AND USE THEREOF**

[54] **DERIVES DE PYRIMIDINE-4-YL D'IMIDAZOLIDINE-2-ONE ET COMPOSITIONS AYANT UNE ACTIVITE INHIBITRICE DE L'ISOCITRATE-DESHYDROGENASE (IDH) MUTEE, LEUR PROCEDE DE PREPARATION ET LEUR UTILISATION**

[72] JIANG, LEI, CN
[72] GENG, MEIYU, CN
[72] ZHENG, QIANGANG, CN
[72] HUANG, MIN, CN
[72] WAN, HUIXIN, CN
[72] TANG, SHUAI, CN
[72] FU, XIANLEI, CN
[72] LAN, XIAOJING, CN
[72] CAO, JIANHUA, CN
[72] LIU, FEIFEI, CN
[72] DING, JIAN, CN
[73] SHANGHAI HAIHE PHARMACEUTICAL CO., LTD., CN
[73] SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, CN

[85] 2018-09-21
[86] 2017-03-21 (PCT/CN2017/077467)
[87] (WO2017/162133)
[30] CN (201610165095.1) 2016-03-22

[11] **3,019,179**
[13] C

[51] **Int.Cl. A61L 15/58 (2006.01)**

[25] EN

[54] **A MEDICAL ADHESIVE TAPE**

[54] **RUBAN ADHESIF POUR USAGE MEDICAL**

[72] CARR, JAN, US
[72] SCHUETTE, MARIO, DE
[72] SHORT, AUSTIN, US
[72] HOFFMANN, GREGG, US
[73] LOHMANN CORPORATION, US

[85] 2018-09-26
[86] 2017-04-11 (PCT/US2017/026965)
[87] (WO2017/180595)
[30] US (62/320,781) 2016-04-11

[11] **3,019,875**
[13] C

[51] **Int.Cl. H02M 7/12 (2006.01) H02M 7/483 (2007.01)**

[25] EN

[54] **CONVERTER AND POWER CONVERSION APPARATUS INCLUDING THE SAME**

[54] **CONVERTISSEUR ET DISPOSITIF DE CONVERSION D'ENERGIE UTILISANT CELUI-CI**

[72] OHNISHI, KEISUKE, JP
[72] ABE, SHOICHI, JP
[72] SANADA, KAZUNORI, JP
[73] TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION, JP

[85] 2018-10-03
[86] 2016-04-12 (PCT/JP2016/061757)
[87] (WO2017/179112)

[11] **3,020,121**
[13] C

[51] **Int.Cl. A24F 40/51 (2020.01) A24F 40/40 (2020.01)**

[25] EN

[54] **PNEUMATIC SENSOR AND ELECTRONIC CIGARETTE HAVING SAME**

[54] **CAPTEUR PNEUMATIQUE ET CIGARETTE ELECTRONIQUE EQUIPEE D'UN CAPTEUR PNEUMATIQUE**

[72] OUYANG, JUNWEI, CN
[73] SHENZHEN IVPS TECHNOLOGY CO., LTD., CN

[86] (3020121)
[87] (3020121)
[22] 2018-10-09
[30] CN (201821063423.8) 2018-07-05

[11] **3,021,114**
[13] C

[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 9/127 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **USE OF THE LIPIDATED IMMUNE RESPONSE MODIFIER COMPOUND N-4-{[4-AMINO-2-BUTYL-1H-IMIDAZO[4,5-C]QUINOLIN-1-YL]OXY}BUTLY)OCTADECANAMIDE**

[54] **UTILISATION DE COMPOSE MODIFICATEUR DE REPONSE IMMUNITAIRE LIPIDEE N-4-{[4-AMINO-2-BUTYL-1H-IMIDAZO[4,5-C]QUINOLIN-1-YL]OXY} BUTLY)OCTADECANAMIDE**

[72] WIGHTMAN, PAUL D., US
[73] 3M INNOVATIVE PROPERTIES COMPANY, US

[86] (3021114)
[87] (3021114)
[22] 2011-08-16
[62] 2,808,624
[30] US (61/374512) 2010-08-17

[11] **3,021,804**
[13] C

[51] **Int.Cl. B32B 29/08 (2006.01) B31F 1/22 (2006.01) B31F 1/24 (2006.01) B31F 1/28 (2006.01) B32B 3/28 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PRODUCING MULTI-LAYERED BOARD HAVING AT LEAST THREE MEDIUMS WITH AT LEAST TWO MEDIUMS BEING DIFFERENT**

[54] **SYSTEME ET PROCEDE POUR PRODUIRE DU CARTON MULTICOUCHE POSSEDANT AU MOINS TROIS MEDIUMS DONT AU MOINS DEUX SONT DIFFERENTS**

[72] GREENFIELD, GILES, US
[73] SCORRBOARD, LLC, US

[85] 2018-10-19
[86] 2017-04-14 (PCT/US2017/027624)
[87] (WO2017/184447)
[30] US (15/134,206) 2016-04-20

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[11] **3,022,381**
[13] C

[51] **Int.Cl. B64C 39/02 (2006.01) G06Q 10/08 (2012.01)**
[25] EN
[54] **UNMANNED AERIAL VEHICLE PICK-UP AND DELIVERY SYSTEMS**
[54] **SYSTEME DE RAMASSAGE ET DE LIVRAISON PAR VEHICULES AERIENS SANS PILOTE**
[72] GIL, JULIO, US
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2018-10-26
[86] 2017-04-28 (PCT/US2017/030157)
[87] (WO2017/190026)
[30] US (62/329,491) 2016-04-29

[11] **3,022,382**
[13] C

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[25] EN
[54] **UNMANNED AERIAL VEHICLE PICK-UP AND DELIVERY SYSTEMS**
[54] **SYSTEMES DE RAMASSAGE ET DE LIVRAISON PAR VEHICULES AERIENS SANS PILOTE**
[72] GIL, JULIO, US
[72] COOPER, ANDREW, US
[72] COOPER, JEFFREY, US
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2018-10-26
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[30] US (62/329,491) 2016-04-29

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[13] C

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[25] EN
[54] **LEVEL**
[54] **NIVEAU A BULLE**
[72] STEELE, MICHAEL S., US
[72] BURCH, WADE, US
[72] ALBRECHT, TIMOTHY, US
[72] PHILLIPS, MICHAEL, US
[72] MILLER, BRANDON, US
[73] MILWAUKEE ELECTRIC TOOL CORPORATION, US
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[13] C

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[25] EN
[54] **METHODS OF USING CARBON QUANTUM DOTS TO ENHANCE PRODUCTIVITY OF FLUIDS FROM WELLS**
[54] **PROCEDES D'UTILISATION DE POINTS QUANTIQUES DE CARBONE POUR ACCROITRE LE RENDEMENT DE PRODUCTION DE FLUIDES A PARTIR DE PUITES**
[72] GUPTA, D.V. SATYANARAYANA, US
[72] MURUGESAN, SANKARAN, US
[72] KHABASHEKU, VALERY N., US
[72] KUZNETSOV, OLEKSANDR, US
[72] SURESH, RADHIKA, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
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[30] US (14/739,629) 2015-06-15
[30] US (15/172,335) 2016-06-03

[11] **3,024,720**
[13] C

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[25] EN
[54] **DATA EXCHANGE PROCESSING METHOD, TERMINAL, AND SYSTEM**
[54] **PROCEDE, TERMINAL ET SYSTEME DE TRAITEMENT D'ECHANGE DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2018-11-19
[86] 2015-06-30 (PCT/CN2015/082786)
[87] (WO2017/000187)

[11] **3,024,889**
[13] C

[51] **Int.Cl. H04L 29/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PREVENTING SERVER FROM BEING ATTACKED**
[54] **PROCEDE ET DISPOSITIF POUR EMPECHER L'ATTAQUE D'UN SERVEUR**
[72] LU, YARAN, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2018-11-20
[86] 2017-04-18 (PCT/CN2017/080862)
[87] (WO2017/206605)
[30] CN (201610377847.0) 2016-05-31

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[13] C

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[25] EN
[54] **TENSIONER**
[54] **TENDEUR**
[72] DEC, ANDRZEJ, US
[72] SESHACHALAM, VENKATAKRISHNAN, DE
[73] GATES CORPORATION, US
[85] 2018-12-06
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[30] US (15/625,635) 2017-06-16
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[11] **3,027,562**
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[51] **Int.Cl. B65D 43/02 (2006.01) B65D 47/08 (2006.01) B65D 47/12 (2006.01) B65D 51/16 (2006.01) B65D 51/24 (2006.01) B65D 81/38 (2006.01)**
[25] EN
[54] **LID FOR CONTAINER**
[54] **COUVERCLE POUR RECIPIENT**
[72] SEIDERS, ROY, US
[72] SULLIVAN, DEREK, US
[72] BONDHUS, ANDY, US
[72] GOLDBERG, EVAN, US
[73] YETI COOLERS, LLC, US
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[25] EN
[54] **FLUID ANALYZER FOR MEASURING A TARGET ANALYTE AND METHOD OF CALIBRATING AN AMPEROMETRIC SENSOR**
[54] **ANALYSEUR DE FLUIDE POUR MESURER UN ANALYTE CIBLE ET PROCÉDE D'ÉTALONNAGE D'UN CAPTEUR AMPEROMETRIQUE**
[72] LI, JAY, US
[72] CHAN, ANDY, US
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2018-12-14
[86] 2017-06-06 (PCT/US2017/036059)
[87] (WO2017/218231)
[30] US (62/351,377) 2016-06-17
[30] US (62/356,632) 2016-06-30

[11] **3,028,240**
[13] C

[51] **Int.Cl. C10B 33/00 (2006.01) C10B 1/04 (2006.01) C10B 33/14 (2006.01)**
[25] EN
[54] **ARRANGEMENT OF A COKE DRUM AND OF A COKE CRUSHING UNIT, FOR USE IN A CLOSED, GAS-TIGHT SYSTEM FOR GAINING SELLABLE PETROLEUM COKE PIECES OUT OF SOLIDIFIED PETROLEUM COKE IN A COKE DRUM UNIT AND A CLOSED, GAS-TIGHT SYSTEM COMPRISING SUCH ARRANGEMENT**
[54] **AGENCEMENT D'UNE UNITE DE TAMBOUR A COKE ET D'UNE UNITE DE BROYAGE DE COKE, A UTILISER DANS UN SYSTEME FERME ETANCHE AUX GAZ POUR OBTENIR DES MORCEAUX DE COKE DE PETROLE VENDABLES A PARTIR DE COKE DE PETROLE SOLIDIFIE DANS UNE UNITE DE TAMBOUR A COKE, ET SYSTEME FERME ETANCHE AUX GAZ COMPRENANT CET AGENCEMENT**
[72] STREICH, ZHENG-ZHU, DE
[73] TTP GMBH, DE
[85] 2018-12-18
[86] 2016-06-28 (PCT/EP2016/065004)
[87] (WO2018/001462)

[11] **3,028,822**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **MECHANISTIC TARGET OF RAPAMYCIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC APPLICATIONS THEREOF**
[54] **CIBLE MECANISTE D'INHIBITEURS DE LA VOIE DE SIGNALISATION DE LA RAPAMYCINE ET SES APPLICATIONS THERAPEUTIQUES**
[72] GUO, CHUANGXING, US
[72] TONG, YOUZHI, US
[73] SUZHOU KINTOR PHARMACEUTICALS, INC., CN
[85] 2018-12-20
[86] 2017-05-17 (PCT/CN2017/084683)
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[30] US (62354754) 2016-06-25

[11] **3,029,961**
[13] C

[51] **Int.Cl. C08G 73/02 (2006.01) C08G 64/22 (2006.01) C08G 81/00 (2006.01)**
[25] EN
[54] **BIOCOMPATIBLE POLYMERS FOR MEDICAL DEVICES**
[54] **POLYMERES BIOCOMPATIBLES POUR DISPOSITIFS MEDICAUX**
[72] KOHN, JOACHIM, US
[72] BOLIKAL, DURGADAS, US
[73] RUTGERS, THE STATE OF UNIVERSITY OF NEW JERSEY, US
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[13] C

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[25] EN
[54] **ANASTOMOTIC DRAINAGE STENT**
[54] **ENDOPROTHESE DE DRAINAGE ANASTOMOTIQUE**
[72] GRAY, JEFF, US
[72] BANNON, BRYAN, US
[72] DONOVAN, RYAN R., US
[72] ECKERLINE, KATHARINE, US
[73] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2019-01-07
[86] 2017-09-19 (PCT/US2017/052200)
[87] (WO2018/053477)
[30] US (62/396,524) 2016-09-19

[11] **3,030,875**
[13] C

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[25] EN
[54] **ELECTRONIC CUTTING MACHINE**
[54] **MACHINE DE COUPE ELECTRONIQUE**
[72] CRYSTAL, JEREMY B., US
[72] GUBLER, JEFFERY V., US
[72] ROPER, CLARK L., US
[72] COLBY, JIM A., US
[72] TORGERSON, DANIEL, US
[72] ROMIG, ALAN, US
[72] BANDIS, STEVEN, US
[72] WAIBEL, MATTHEW, US
[72] WOLDBERG, ROBERT, US
[72] OLSEN, DONALD B., US
[72] TUTTLE, MATTHEW L., US
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[73] PROVO CRAFT & NOVELTY, INC., US
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[25] EN
[54] **A METHOD FOR OPERATING A
CONDITION MONITORING
SYSTEM OF A VIBRATING
MACHINE AND A CONDITION
MONITORING SYSTEM**

[54] **UNE METHODE
D'EXPLOITATION D'UN
SYSTEME DE SURVEILLANCE
D'ETAT D'UNE MACHINE
VIBRATOIRE ET UN SYSTEME
DE SURVEILLANCE D'ETAT**

[72] SCHAEFER, JAN, DE
[73] SCHENCK PROCESS EUROPE
GMBH, DE
[85] 2019-01-17
[86] 2017-11-10 (PCT/EP2017/078933)
[87] (WO2018/087316)
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[13] C

[51] **Int.Cl. C09K 8/487 (2006.01) B28C
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C04B 28/04 (2006.01)**

[25] EN
[54] **HIGH TEMPERATURE
RESISTANT PORTLAND CEMENT
SLURRY AND PRODUCTION
METHOD THEREOF**

[54] **BOUE DE CIMENT PORTLAND
RESISTANT A UNE
TEMPERATURE ELEVEE ET
METHODE DE PRODUCTION
ASSOCIEE**

[72] ZHANG, HUA, CN
[72] JIN, JIANZHOU, CN
[72] LIU, SHUOQIONG, CN
[72] QI, FENGZHONG, CN
[72] YU, YONGJIN, CN
[72] XU, MING, CN
[72] YUAN, JINPING, CN
[72] DING, ZHIWEI, CN
[72] ZHOU, CHONGFENG, CN
[72] ZHANG, CHI, CN
[72] LIU, ZISHUAI, CN
[72] FENG, YUSI, CN
[72] GUO, YUCHAO, CN
[73] CHINA NATIONAL PETROLEUM
CORPORATION, CN
[73] CNPC ENGINEERING
TECHNOLOGY R&D COMPANY
LIMITED, CN
[86] (3032137)
[87] (3032137)
[22] 2019-01-31
[30] CN (201810104596.8) 2018-02-02

[11] **3,032,795**
[13] C

[51] **Int.Cl. C07D 487/04 (2006.01) A61K
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29/00 (2006.01) A61P 35/00 (2006.01)
A61P 35/02 (2006.01) A61P 37/08
(2006.01)**

[25] EN
[54] **IMIDAZOPYRIDINAMINE
PHENYL DERIVATIVE AND USE
THEREOF**

[54] **DERIVE
D'IMIDAZOPYRIDINAMINE
PHENYLE ET SON UTILISATION**

[72] LV, YUBIN, CN
[72] LI, BANGLIANG, CN
[72] YIN, JIANMING, US
[73] YIN, JIANMING, US
[73] HANGZHOU BANGSHUN
PHARMACEUTICAL CO., LTD., CN
[85] 2019-01-30
[86] 2017-06-29 (PCT/CN2017/090908)
[87] (WO2018/001331)
[30] CN (201610533291.X) 2016-06-30
[30] CN (201611062661.2) 2016-11-25

[11] **3,033,514**
[13] C

[51] **Int.Cl. G06Q 50/18 (2012.01)**

[25] EN
[54] **CUSTOMIZED PLATFORM FOR
HOST PROTECTION IN HOME
SHARING**

[54] **PLATE-FORME PERSONNALISEE
DE PROTECTION D'UN HOTE
DANS UN PARTAGE
DOMESTIQUE**

[72] SNYDER, JENNIFER L., US
[72] HRADEK, CHRISTY, US
[73] ALLSTATE INSURANCE
COMPANY, US
[85] 2019-02-08
[86] 2017-08-14 (PCT/US2017/046702)
[87] (WO2018/035011)
[30] US (15/237,197) 2016-08-15

[11] **3,034,837**
[13] C

[51] **Int.Cl. G06F 17/40 (2006.01) G06F
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[25] EN
[54] **SYSTEM AND METHOD FOR
COLLECTING AND UPDATING
GEOGRAPHICAL DATA**

[54] **SYSTEME ET PROCEDE DE
COLLECTE ET DE MISE A JOUR
DE DONNEES GEOGRAPHIQUES**

[72] SAWYER, TOM Y., JR., US
[72] BECKNER, MARK, US
[72] TUCKER, PAGE, US
[72] JONES, SCOTT AUSTIN, US
[73] PROSTAR GEOCORP, INC., US
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[30] US (60/781719) 2006-03-14
[30] US (60/868502) 2006-12-04

[11] **3,035,292**
[13] C

[51] **Int.Cl. A24F 15/01 (2020.01) A24F
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[25] EN
[54] **A CONTAINER
CONTENANT**

[72] HEPWORTH, RICHARD, GB
[72] DAVIS, ANDREW, GB
[72] MAJOR, JOHN, GB
[72] YURTERI, CANER, GB
[72] WOODCOCK, DOMINIC, GB
[72] DICKENS, COLIN, GB
[73] NICOVENTURES TRADING
LIMITED, GB
[85] 2019-02-27
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[30] GB (1615608.5) 2016-09-14

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[13] C

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[25] EN
[54] **SYSTEM AND METHOD FOR HEART RATE ESTIMATION USING A TRACKING MECHANISM**
[54] **SYSTEME ET METHODE D'ESTIMATION DU RYTHME CARDIAQUE AU MOYEN D'UN MECANISME DE SUIVI**
[72] MUKHOPADHYAY, SHALINI, IN
[72] GHOSE, AVIK, IN
[72] AHMED, NASIMUDDIN, IN
[72] PAL, ARPAN, IN
[73] TATA CONSULTANCY SERVICES LIMITED, IN
[86] (3036244)
[87] (3036244)
[22] 2019-03-08
[30] IN (201821040008) 2018-10-23

[11] **3,037,660**
[13] C

[51] **Int.Cl. B05C 5/00 (2006.01)**
[25] EN
[54] **APPLICATION DEVICE**
[54] **DISPOSITIF D'APPLICATION**
[72] HAYAMA, HIRONOBU, JP
[72] NABETA, TAKESHI, JP
[72] MOTOHASHI, TAKASHI, JP
[72] WATANABE, CHIKANORI, JP
[72] YAMAMURO, TAKASHI, JP
[73] HONDA MOTOR CO., LTD., JP
[85] 2019-03-20
[86] 2017-09-15 (PCT/JP2017/033569)
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[30] JP (2016-186214) 2016-09-23

[11] **3,038,450**
[13] C

[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/33 (2013.01) G06F 21/41 (2013.01) H04L 9/30 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **METHOD FOR OAUTH SERVICE THROUGH BLOCKCHAIN NETWORK, AND DEVICE AND SERVER USING THE SAME**
[54] **METHODE DE SERVICE OAUTH AU MOYEN D'UN RESEAU DE CHAINES DE BLOCS, ET DISPOSITIF ET SERVEUR EMPLOYANT LADITE METHODE**
[72] UHR, JOON SUN, KR
[72] HONG, JAY WU, KR
[72] SUH, MOON GJU, KR
[73] COINPLUG, INC., KR
[86] (3038450)
[87] (3038450)
[22] 2019-03-29
[30] KR (10-2018-0037131) 2018-03-30

[11] **3,038,479**
[13] C

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[25] EN
[54] **PYRAZOLOPYRIDINE DERIVATIVE HAVING GLP-1 RECEPTOR AGONIST EFFECT**
[54] **DERIVE DE PYRAZOLOPYRIDINE AYANT UN EFFET AGONISTE DU RECEPTEUR GLP-1**
[72] YOSHINO, HITOSHI, JP
[72] TSUCHIYA, SATOSHI, JP
[72] MATSUO, ATSUSHI, JP
[72] SATO, TSUTOMU, JP
[72] NISHIMOTO, MASAHIRO, JP
[72] OGURI, KYOKO, JP
[72] OGAWA, HIROKO, JP
[72] NISHIMURA, YOSHIKAZU, JP
[72] FURUTA, YOSHIYUKI, JP
[72] KASHIWAGI, HIROTAKA, JP
[72] HORI, NOBUYUKI, JP
[72] KAMON, TAKUMA, JP
[72] SHIRAIISHI, TAKUYA, JP
[72] YOSHIDA, SHOSHIN, JP
[72] KAWAI, TAKAHIRO, JP
[72] TANIDA, SATOSHI, JP
[72] AOKI, MASAHIRO, JP
[73] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2019-03-26
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[87] (WO2018/056453)
[30] JP (2016-187605) 2016-09-26

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[11] **3,039,450**
[13] C

[51] **Int.Cl. H05B 45/20 (2020.01) H05B 45/10 (2020.01)**
[25] EN
[54] **LED LIGHT TEMPERATURE CONTROL**
[54] **CONTROLE DE TEMPERATURE D'AMPOULE DEL**
[72] FERRELL, DIRRICK, US
[73] ITC, INC., US
[86] (3039450)
[87] (3039450)
[22] 2019-04-08
[30] US (62/653,941) 2018-04-06

[11] **3,039,482**
[13] C

[51] **Int.Cl. B62B 9/14 (2006.01) E04H 15/06 (2006.01) E04H 15/54 (2006.01) E04H 15/60 (2006.01) E04H 15/64 (2006.01)**
[25] EN
[54] **CANOPY POLE SYSTEM**
[54] **SYSTEME DE MAT D'AUVENT**
[72] FITZWATER, JASON, US
[72] OSTERGAARD, COLLIN, US
[73] RADIO FLYER INC., US
[85] 2019-04-04
[86] 2017-09-20 (PCT/US2017/052400)
[87] (WO2018/080664)
[30] US (15/338,900) 2016-10-31

[11] **3,040,534**
[13] C

[51] **Int.Cl. A61M 60/148 (2021.01) A61M 60/274 (2021.01) A61M 60/40 (2021.01) A61M 60/405 (2021.01) A61M 60/857 (2021.01) A61B 17/11 (2006.01) A61F 2/06 (2013.01)**
[25] EN
[54] **DEVICES AND SYSTEMS FOR COUNTERPULSATION AND BLOOD FLOW CONDUIT CONNECTION**
[54] **DISPOSITIFS ET SYSTEMES DE CONTREPULSATION ET DE RACCORD DE CONDUIT DE FLUX SANGUIN**
[72] DOWLING, ROB, US
[72] KUNG, BOB, US
[72] SPENCE, PAUL, US
[72] SIESS, THORSTEN, DE
[72] SPANIER, GERD, DE
[72] GRATZ, ERIC, US
[72] HASTIE, CAITLYN, US
[73] ABIOMED, INC., US
[86] (3040534)
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[22] 2012-08-13
[62] 2,844,744
[30] US (61/522401) 2011-08-11

[11] **3,040,722**
[13] C

[51] **Int.Cl. C09D 11/52 (2014.01) B82Y 30/00 (2011.01) H01C 7/00 (2006.01) H01C 17/06 (2006.01)**
[25] EN
[54] **AQUEOUS CARBON NANOPARTICLE INK COMPOSITION FOR RESISTORS**
[54] **COMPOSITION D'ENCRE A BASE DE NANOPARTICULES DE CARBONE AQUEUX POUR RESISTANCES**
[72] SMITHSON, CHAD S., CA
[73] XEROX CORPORATION, US
[86] (3040722)
[87] (3040722)
[22] 2019-04-18
[30] US (15/968324) 2018-05-01

[11] **3,040,884**
[13] C

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[25] EN
[54] **INFANT CALMING/SLEEP-AID DEVICE**
[54] **DISPOSITIF PERMETTANT DE CALMER UN NOURRISSON/DE FAVORISER L'ENDORMISSEMENT D'UN NOURRISSON**
[72] KARP, HARVEY NEIL, US
[72] LARSON, TED, US
[72] GARBANATI, ROBERT, US
[72] SARYAN, MIKAYEL, US
[72] FORNELL, PETER, US
[72] KOSUGE, ROY, US
[72] KOPP, JOE, US
[73] HB INNOVATIONS, INC., US
[85] 2019-04-16
[86] 2017-10-17 (PCT/US2017/057055)
[87] (WO2018/075566)
[30] US (62/409,307) 2016-10-17

[11] **3,041,101**
[13] C

[51] **Int.Cl. G02B 6/35 (2006.01) G02F 1/313 (2006.01)**
[25] EN
[54] **INTEGRATED MEMS SWITCHES FOR SELECTIVELY COUPLING LIGHT IN AND OUT OF A WAVEGUIDE**
[54] **COMMUTATEURS SMEM INTEGRES POUR COUPLER SELECTIVEMENT DE LA LUMIERE DANS ET HORS D'UN GUIDE D'ONDES**
[72] SPECTOR, STEVEN J., US
[72] MOEBIUS, MICHAEL G., US
[72] LANE, BENJAMIN F., US
[72] FAVALORA, GREGG E., US
[73] THE CHARLES STARK DRAPER LABORATORY, INC., US
[85] 2019-04-17
[86] 2017-12-16 (PCT/US2017/066885)
[87] (WO2018/112447)
[30] US (62/498,158) 2016-12-16
[30] US (62/450,855) 2017-01-26
[30] US (62/516,602) 2017-06-07

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[11] **3,041,778**
[13] C

[51] **Int.Cl. F16L 37/18 (2006.01) F16L 37/00 (2006.01) F16L 37/08 (2006.01) F16L 37/12 (2006.01)**

[25] EN

[54] **DOUBLE CAM LEVERS AND SAFETY LOCK FOR CAM LOCK FITTING**

[54] **LEVIERS A CAME DOUBLES ET VERROU DE SECURITE POUR RACCORD A VERROU A CAME**

[72] HARTMAN, JEFFREY, US

[72] WILLIAMSON, GEORGE L., US

[73] HARTMAN, JEFFREY, US

[73] WILLIAMSON, GEORGE L., US

[85] 2019-04-25

[86] 2016-12-24 (PCT/US2016/000133)

[87] (WO2018/117995)

[11] **3,042,019**
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) G01V 1/40 (2006.01) G01V 3/18 (2006.01) G01V 5/04 (2006.01) G01V 11/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS TO OPTIMIZE DOWNHOLE CONDITION IDENTIFICATION AND RESPONSE USING DIFFERENT TYPES OF DOWNHOLE SENSING TOOLS**

[54] **PROCEDES ET SYSTEMES D'OPTIMISATION DE L'IDENTIFICATION DE CONDITIONS ET DE LA REPOSE DE FOND DE TROU A L'AIDE DE DIFFERENTS TYPES D'OUTILS DE DETECTION DE FOND DE TROU**

[72] DYKSTRA, JASON D., US

[72] ZHAO, YIMING, US

[72] SONG, XINGYONG, US

[72] BU, FANPING, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2019-04-26

[86] 2016-12-08 (PCT/US2016/065663)

[87] (WO2018/106247)

[11] **3,042,099**
[13] C

[51] **Int.Cl. A42B 3/12 (2006.01) A42B 3/06 (2006.01) A42B 3/20 (2006.01)**

[25] EN

[54] **FOOTBALL HELMET HAVING EXCEPTIONAL IMPACT PERFORMANCE**

[54] **CASQUE DE FOOTBALL AVEC ABSORPTION DES IMPACTS EXCEPTIONNELLE**

[72] VANHOUTIN, LOUIS ANTHONY, US

[72] LONG, VINCENT R., US

[72] ERB, ROBERT, US

[72] GROFF, RICHARD, III, US

[73] SCHUTT SPORTS IP, LLC, US

[86] (3042099)

[87] (3042099)

[22] 2019-05-02

[30] US (62/754,582) 2018-11-01

[30] US (62/768,257) 2018-11-16

[30] US (16/269,664) 2019-02-07

[11] **3,042,195**
[13] C

[51] **Int.Cl. F16D 11/12 (2006.01) B64C 25/50 (2006.01)**

[25] FR

[54] **LOCKING DEVICE WITH ROTARY LOCK WITH FLICK-SHIFT CONTROL**

[54] **DISPOSITIF DE VERROUILLAGE A VERROU ROTATIF A COMMANDE IMPULSIONNELLE**

[72] DUBACHER, BERTRAND, FR

[72] QUERNERCH'DU, MARC, FR

[72] EUZET, BERTRAND, FR

[73] SAFRAN LANDING SYSTEMS, FR

[86] (3042195)

[87] (3042195)

[22] 2019-05-02

[30] FR (1853897) 2018-05-04

[11] **3,043,098**
[13] C

[51] **Int.Cl. B64C 25/26 (2006.01) F15B 15/16 (2006.01) F15B 15/26 (2006.01) F16B 7/10 (2006.01)**

[25] FR

[54] **AUTOMATIC LOCKING TELESCOPIC ACTUATOR**

[54] **ACTIONNEUR TELESCOPIQUE A VERROUILLAGE AUTOMATIQUE**

[72] LECOURTIER, GILBERT, FR

[72] LE BRETON, ARNAUD, FR

[73] SAFRAN LANDING SYSTEMS, FR

[86] (3043098)

[87] (3043098)

[22] 2019-05-10

[30] FR (1854162) 2018-05-18

[11] **3,043,363**
[13] C

[51] **Int.Cl. A61M 5/168 (2006.01) A61M 13/00 (2006.01) G05D 16/06 (2006.01)**

[25] EN

[54] **SELF-REGULATING ELECTROLYTIC GAS GENERATOR AND IMPLANT SYSTEM COMPRISING THE SAME**

[54] **GENERATEUR DE GAZ ELECTROLYTIQUE A AUTO-REGULATION ET SYSTEME D'IMPLANT LE COMPRENANT**

[72] STONE, SIMON G., US

[72] TEMPELMAN, LINDA A., US

[72] SCHWENK, MELISSA, US

[73] GINER LIFE SCIENCES, INC., US

[85] 2019-05-08

[86] 2017-11-15 (PCT/US2017/061859)

[87] (WO2018/093940)

[30] US (62/422,420) 2016-11-15

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[11] **3,043,369**
[13] C
[51] **Int.Cl. F16K 11/04 (2006.01) F15B 3/00 (2006.01) F16K 27/02 (2006.01)**
[25] EN
[54] **VOLUME BOOSTER WITH STABILIZED TRIM**
[54] **SURPRESSEUR DE VOLUME AVEC SYSTEME DE COMPENSATION STABILISE**
[72] LOVELL, MICHEL K., US
[72] JWANOUSKOS, RYAN J., US
[72] SCOTT, GARY L., US
[72] JUNK, KENNETH W., US
[72] STIEHL, MARK, US
[73] FISHER CONTROLS INTERNATIONAL LLC, US
[86] (3043369)
[87] (3043369)
[22] 2011-09-13
[62] 2,812,020
[30] US (12/882,549) 2010-09-15

[11] **3,043,468**
[13] C
[51] **Int.Cl. A61M 5/14 (2006.01)**
[25] EN
[54] **PERCUTANEOUS GAS DIFFUSION DEVICE SUITABLE FOR USE WITH A SUBCUTANEOUS IMPLANT**
[54] **DISPOSITIF DE DIFFUSION DE GAZ PERCUTANE ADAPTE POUR UTILISATION AVEC UN IMPLANT SOUS-CUTANE**
[72] FERRANTE, ANTHONY A., US
[72] STONE, SIMON G., US
[73] GINER LIFE SCIENCES, INC., US
[85] 2019-05-09
[86] 2017-11-15 (PCT/US2017/061878)
[87] (WO2018/093956)
[30] US (62/422,397) 2016-11-15

[11] **3,043,873**
[13] C
[51] **Int.Cl. C09D 5/16 (2006.01)**
[25] EN
[54] **A FOULING RELEASE COATING SYSTEM**
[54] **SYSTEME DE REVETEMENT ANTISALISSURE**
[72] COURTIN, JACQUES, NL
[73] PPG COATINGS EUROPE B.V., NL
[73] AVERY DENNISON CORPORATION, US
[85] 2019-05-14
[86] 2017-11-30 (PCT/EP2017/081067)
[87] (WO2018/100108)
[30] EP (16202062.2) 2016-12-02

[11] **3,044,363**
[13] C
[51] **Int.Cl. F04F 5/20 (2006.01) B08B 5/02 (2006.01) B08B 5/04 (2006.01) F04F 5/46 (2006.01)**
[25] EN
[54] **AIR INTAKE AND BLOWOUT TOOL**
[54] **OUTIL D'ADMISSION/SOUFFLAGE D'AIR**
[72] NAKAJIMA, KOTARO, JP
[73] KYOKUTOH CO., LTD., JP
[85] 2019-05-17
[86] 2017-09-21 (PCT/JP2017/034093)
[87] (WO2018/100851)
[30] JP (2016-231456) 2016-11-29

[11] **3,044,875**
[13] C
[51] **Int.Cl. B60D 1/18 (2006.01) B62D 63/08 (2006.01)**
[25] EN
[54] **HITCH ATTACHABLE RELEASING HOLDER FOR SAFETY CHAINS**
[54] **SUPPORT DE RELACHEMENT POUVANT ETRE FIXE A UN ATTELAGE POUR DES CHAINES DE SECURITE**
[72] OLSON, BRIAN R., CA
[73] CURT MANUFACTURING, LLC, US
[86] (3044875)
[87] (3044875)
[22] 2019-06-03

[11] **3,044,939**
[13] C
[51] **Int.Cl. E05B 65/08 (2006.01)**
[25] EN
[54] **HEAVY-DUTY JAMB LATCH FOR SLIDING BUILDING DOORS**
[54] **VERROU DE MONTANT ROBUSTE DESTINE AUX PORTES COULISSANTES DE BATIMENT**
[72] NESTOR, PATRICK MICHAEL, US
[72] RAMSTACK, PHILIP LLOYD, US
[72] OSMAN, JAY EDWARD, US
[72] KUPKA, KEVIN AUGUST, US
[72] GRANADOS RAYA, NORMA GABRIELA, US
[73] METAL WORKS, INC. D/B/A MWI COMPONENTS, US
[86] (3044939)
[87] (3044939)
[22] 2019-05-30
[30] US (15/994,701) 2018-05-31

[11] **3,044,944**
[13] C
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 9/00 (2006.01) A61K 31/045 (2006.01) A61K 31/047 (2006.01)**
[25] EN
[54] **FILM FOR ORAL HEMOSTASIS AND WOUND PROTECTION**
[54] **FILM BUCCAL HEMOSTATIQUE ET DE PROTECTION DES PLAIES**
[72] YUN, SEIYEONG, KR
[73] TBM COMPANY, KR
[73] GOOD THINKING CO, KR
[85] 2019-05-24
[86] 2016-10-28 (PCT/KR2016/012271)
[87] (WO2017/090902)
[30] KR (10-2015-0165396) 2015-11-25
[30] KR (10-2016-0141695) 2016-10-28

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

[11] **3,045,469**
[13] C
[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/31 (2006.01) A61Q 5/02 (2006.01)**
[25] EN
[54] **DRY SHAMPOO COMPOSITION**
[54] **COMPOSITION DE SHAMPOING SEC**
[72] DESALE, SHIRISH, GB
[73] CHURCH & DWIGHT CO., INC., US
[85] 2019-05-29
[86] 2017-12-05 (PCT/US2017/064721)
[87] (WO2018/106694)
[30] US (62/430,572) 2016-12-06

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[11] **3,046,206**
[13] C

[51] **Int.Cl. B25C 1/08 (2006.01)**
[25] EN
[54] **FASTENER DRIVING TOOL
HAVING AUTO IGNITION**
[54] **OUTIL D'ENTRAÎNEMENT
D'ELEMENT DE FIXATION A
AUTO-ALLUMAGE**
[72] FAN, CHINBAY Q., US
[72] TALANO, PATRICK, US
[72] HABERSTROH, JAMES, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2019-06-05
[86] 2017-12-07 (PCT/US2017/065029)
[87] (WO2018/111669)
[30] US (62/434,663) 2016-12-15
[30] US (15/833,525) 2017-12-06

[11] **3,046,349**
[13] C

[51] **Int.Cl. B28B 7/02 (2006.01) B28B 7/00
(2006.01) B28B 7/06 (2006.01) B28B
7/16 (2006.01) B29C 33/00 (2006.01)
B29C 45/26 (2006.01)**
[25] EN
[54] **ADJUSTABLE MOLD AND
METHOD FOR
MANUFACTURING DRAINAGE
CHANNELS**
[54] **MOULE REGLABLE ET PROCEDE
DE FABRICATION DE CANAUX
DE DRAINAGE**
[72] LOCKE, BLAKE, US
[73] ABT, INC., US
[85] 2019-06-06
[86] 2017-12-06 (PCT/US2017/064963)
[87] (WO2018/106838)
[30] US (62/430,731) 2016-12-06

[11] **3,046,507**
[13] C

[51] **Int.Cl. E04H 1/00 (2006.01) E04B
1/343 (2006.01) E04B 2/00 (2006.01)**
[25] EN
[54] **IMPROVEMENTS TO MODULAR
DWELLINGS**
[54] **AMELIORATIONS APPORTEES A
DES HABITATIONS
MODULAIRES**
[72] PHILIBERT, CARL, CA
[72] LEE, JAMES, CA
[72] HUNSBERGER, MATTHEW, CA
[72] RONAN, ANDREW, CA
[72] SCHMALE, JARED A., CA
[73] METHOD INNOVATION PARTNERS
INC., CA
[86] (3046507)
[87] (3046507)
[22] 2012-05-03
[62] 2,835,247
[30] CL (1031-2011) 2011-05-09

[11] **3,046,775**
[13] C

[51] **Int.Cl. E21B 47/022 (2012.01) E21B
47/09 (2012.01) G01V 3/18 (2006.01)**
[25] EN
[54] **ECCENTRIC FERRITE COILS
FOR RANGING APPLICATIONS**
[54] **BOBINES DE FERRITE
EXCENTRIQUES DESTINEES A
DES APPLICATIONS DE
TELEMETRIE**
[72] KALATEH AHMAD, AKRAM
AHMADI, US
[72] DONDERICI, BURKAY, US
[72] CAPOGLU, ILKER R., US
[73] HALLIBURTON ENERGY
SERVICES, INC., US
[85] 2019-06-11
[86] 2017-01-27 (PCT/US2017/015412)
[87] (WO2018/140039)

[11] **3,047,407**
[13] C

[51] **Int.Cl. E21B 7/06 (2006.01) E21B
41/00 (2006.01)**
[25] EN
[54] **SLIDING MODE CONTROL
TECHNIQUES FOR STEERABLE
SYSTEMS**
[54] **TECHNIQUES DE COMMANDE
DE MODE GLISSEMENT POUR
SYSTEMES ORIENTABLES**
[72] ZALLUHOGLU, UMUT, US
[72] ZHAO, YIMING, US
[73] HALLIBURTON ENERGY
SERVICES, INC., US
[85] 2019-06-17
[86] 2017-12-29 (PCT/US2017/069048)
[87] (WO2018/144169)
[30] US (62/452,917) 2017-01-31

[11] **3,047,857**
[13] C

[51] **Int.Cl. A61K 31/7088 (2006.01) C12N
15/113 (2010.01) A61K 9/14 (2006.01)
A61K 31/713 (2006.01) A61P 31/12
(2006.01) A61P 31/22 (2006.01)**
[25] EN
[54] **PUM 1 PROTEIN AS A TARGET
FOR VIRUS INHIBITION**
[54] **PROTEINE PUM1 COMME CIBLE
D'INHIBITION DE VIRUS**
[72] ZHOU, GRACE, CN
[72] ROIZMAN, BERNARD, CN
[72] LIU, YONGHONG, CN
[73] SHENZHEN INTERNATIONAL
INSTITUTE FOR BIOMEDICAL
RESEARCH, CN
[85] 2019-06-20
[86] 2017-04-12 (PCT/CN2017/080213)
[87] (WO2018/187957)

[11] **3,048,099**
[13] C

[51] **Int.Cl. B25B 7/14 (2006.01) B25B 7/04
(2006.01)**
[25] EN
[54] **PUSH BUTTON PIN FOR PLIERS**
[54] **GOUPILLE DE BOUTON-
POUSSOIR POUR PINCES**
[72] DAHLKE, SCOTT G., US
[72] DIEDERICH, KEVIN R., US
[73] SNAP-ON INCORPORATED, US
[86] (3048099)
[87] (3048099)
[22] 2019-06-26
[30] US (16/205,379) 2018-11-30

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[11] **3,048,427**
[13] C

[51] **Int.Cl. C08J 11/06 (2006.01) C08J 3/12 (2006.01) C08J 3/20 (2006.01) C08J 3/24 (2006.01) C08J 11/14 (2006.01) C08J 11/28 (2006.01)**

[25] EN

[54] **METHOD OF RECYCLING RUBBER**

[54] **PROCEDE DE RECYCLAGE DE CAOUTCHOUC**

[72] BOHM, GEORG, US

[73] APPIA, LLC, US

[85] 2019-06-25

[86] 2017-12-28 (PCT/US2017/068681)

[87] (WO2018/125987)

[30] US (62/440,118) 2016-12-29

[30] US (62/552,471) 2017-08-31

[11] **3,048,500**
[13] C

[51] **Int.Cl. A41C 3/00 (2006.01)**

[25] EN

[54] **SUPPORT GARMENT**

[54] **VETEMENT DE SOUTIEN**

[72] BRANDT, BARON C., US

[72] GROGRO, DANIELA, US

[72] KOSHKAROFF, IUSTINIA, US

[73] NIKE INNOVATE C.V., US

[85] 2019-06-25

[86] 2018-02-23 (PCT/US2018/019419)

[87] (WO2018/156893)

[30] US (62/463,286) 2017-02-24

[30] US (15/901,651) 2018-02-21

[11] **3,048,572**
[13] C

[51] **Int.Cl. F15B 13/042 (2006.01) B64C 25/16 (2006.01) B64C 25/22 (2006.01) F15C 3/00 (2006.01)**

[25] FR

[54] **HYDRAULIC CIRCUIT SUPPLYING AN ACTUATOR, NOTABLY USED TO MANOEUVRE AN AIRCRAFT COMPARTMENT DOOR**

[54] **CIRCUIT HYDRAULIQUE D'ALIMENTATION D'UN VERIN, NOTAMMENT UTILISE POUR MANOEUVRER UNE PORTE DE SOUTE D'AERONEF**

[72] JUBERT, XAVIER, FR

[72] ERNIS, SEBASTIEN, FR

[73] SAFRAN LANDING SYSTEMS, FR

[86] (3048572)

[87] (3048572)

[22] 2019-07-03

[30] FR (18 56297) 2018-07-09

[11] **3,048,825**
[13] C

[51] **Int.Cl. B27C 1/12 (2006.01) B27C 1/14 (2006.01)**

[25] EN

[54] **PUSHER FOR PLANER**

[54] **POUSSOIR POUR RABOTEUSE**

[72] WANG, LONG-WEI, TW

[73] WANG, LONG-WEI, TW

[86] (3048825)

[87] (3048825)

[22] 2019-07-08

[11] **3,049,448**
[13] C

[51] **Int.Cl. C02F 9/14 (2006.01) C02F 9/00 (2006.01) C02F 1/20 (2006.01) C02F 1/32 (2006.01) C02F 1/40 (2006.01) C02F 1/52 (2006.01) C02F 1/56 (2006.01) C02F 1/66 (2006.01) C02F 1/72 (2006.01) C02F 3/30 (2006.01)**

[25] EN

[54] **SYSTEM AND PROCESS FOR TREATING PRODUCED AND FRAC FLOWBACK WATERS**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT D'EAU DE PRODUCTION ET DE REFLUX DE FRACTURATION**

[72] BIAGINI, BRAD, US

[72] BLUMENSCHN, CHARLES, US

[72] DALE, CAROLINE, FR

[72] KRONEBUSCH, HILLARY, US

[73] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR

[85] 2019-07-04

[86] 2018-01-10 (PCT/US2018/013094)

[87] (WO2018/132426)

[30] US (62/444,975) 2017-01-11

[11] **3,050,051**
[13] C

[51] **Int.Cl. B64C 27/26 (2006.01) B64C 1/26 (2006.01) B64C 39/08 (2006.01)**

[25] EN

[54] **A COMPOUND HELICOPTER WITH A FIXED WING ARRANGEMENT**

[54] **UN HELICOPTERE COMPOSEE EQUIPE D'UN ARRANGEMENT DE VOILURE FIXE**

[72] BLACHA, MARTIN, DE

[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE

[86] (3050051)

[87] (3050051)

[22] 2019-07-17

[30] EP (18400030.5) 2018-11-07

[11] **3,050,709**
[13] C

[51] **Int.Cl. B65B 1/04 (2006.01) A01F 25/14 (2006.01) B65B 37/00 (2006.01)**

[25] EN

[54] **AN EXPANDABLE GRAIN BAGGING APPARATUS AND METHOD THEREOF**

[54] **APPAREIL D'ENSACHAGE DU GRAIN EXTENSIBLE ET PROCEDE D'UTILISATION**

[72] WIERENGA, JOHN MARVIN, CA

[72] WIERENGA, LAMBERT, CA

[72] VANDER LEEST, BRYAN RICHARD, CA

[73] NEERALTA MANUFACTURING INC., CA

[86] (3050709)

[87] (3050709)

[22] 2019-07-29

[30] US (62/746,130) 2018-10-16

[11] **3,050,897**
[13] C

[51] **Int.Cl. E04G 11/00 (2006.01) B28B 1/14 (2006.01) B28B 7/02 (2006.01) B28B 23/02 (2006.01) E04B 2/86 (2006.01) E04G 11/08 (2006.01)**

[25] EN

[54] **TRC FOLDED ASSEMBLY-TYPE PERMANENT FORMWORK AND MANUFACTURING METHOD THEREOF**

[54] **COFFRAGE PERMANENT PLIABLE TRC POUVANT ETRE ASSEMBLE ET METHODE DE FABRICATION**

[72] YIN, SHIPING, CN

[72] LI, SHICHANG, CN

[72] WANG, FEI, CN

[72] WANG, CONGCONG, CN

[73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN

[85] 2019-07-31

[86] 2018-10-08 (PCT/CN2018/109266)

[87] (WO2019/214155)

[30] CN (201810427319.0) 2018-05-07

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[11] **3,051,141**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0735 (2010.01) C12N 5/074 (2010.01) C12N 5/02 (2006.01)**

[25] EN

[54] **MEDIA AND METHODS FOR ENHANCING THE SURVIVAL AND PROLIFERATION OF STEM CELLS**

[54] **MILIEUX ET PROCEDES POUR AMELIORER LA SURVIE ET LA PROLIFERATION DE CELLULES SOUCHES**

[72] HIRST, ADAM, CA
[72] KARDEL, MELANIE, CA
[72] CHANG, WING, CA
[72] HIATT, MICHAEL, CA
[72] JERVIS, ERIC, CA
[72] HUNTER, ARWEN, CA
[73] STEMCELL TECHNOLOGIES CANADA INC., CA

[85] 2019-07-22
[86] 2018-01-23 (PCT/CA2018/050076)
[87] (WO2018/132926)
[30] US (62/449,413) 2017-01-23
[30] US (62/518,776) 2017-06-13
[30] US (62/608,875) 2017-12-21

[11] **3,051,385**
[13] C

[51] **Int.Cl. C12C 3/00 (2006.01) A23L 2/00 (2006.01) C12G 3/06 (2006.01)**

[25] EN

[54] **METHOD FOR MANUFACTURING BEVERAGE AND METHOD FOR IMPROVING FLAVOR OF BEVERAGE**

[54] **METHODE DE PRODUCTION D'UNE BOISSON ET METHODE D'AMELIORATION DU GOUT D'UNE BOISSON**

[72] UEMOTO, MITSUHIRO, JP
[72] TAKOI, KIYOSHI, JP
[72] TANIGAWA, ATSUSHI, JP
[72] KOIE, KOICHIRO, JP
[72] ITOGA, YUTAKA, JP
[73] SAPPORO BREWERIES LIMITED, JP

[85] 2019-07-23
[86] 2017-12-26 (PCT/JP2017/046743)
[87] (WO2018/139153)
[30] JP (2017-011904) 2017-01-26

[11] **3,052,735**
[13] C

[51] **Int.Cl. G06F 21/62 (2013.01) H04L 9/00 (2006.01) H04L 9/32 (2006.01) G06F 16/27 (2019.01)**

[25] EN

[54] **SMART CONTRACT WHITELISTS**

[54] **LISTES BLANCHES DE CONTRATS INTELLIGENTS**

[72] XIA, NING, CN
[72] XIE, GUILU, CN
[72] DENG, FUXI, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY

[85] 2019-08-06
[86] 2018-12-28 (PCT/CN2018/124852)
[87] (WO2019/072304)

[11] **3,055,313**
[13] C

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

[25] EN

[54] **TUBULAR CLAMP SYSTEM**

[54] **SYSTEME DE SERRAGE TUBULAIRE**

[72] RIOS, ROGELIO, US
[73] FORUM US, INC., US

[85] 2019-09-04
[86] 2018-02-07 (PCT/US2018/017253)
[87] (WO2018/164799)
[30] US (15/453,629) 2017-03-08

[11] **3,055,909**
[13] C

[51] **Int.Cl. E03C 1/04 (2006.01) B05B 15/65 (2018.01) F16K 11/00 (2006.01)**

[25] EN

[54] **PULLDOWN KITCHEN FAUCET SPRING SPOUT**

[54] **BEC VERSEUR A RESSORT POUR ROBINET DE CUISINE A LEVIER ABAISSANT**

[72] FOURMAN, TERRENCE L., US
[72] MOORE, JEFFREY L., US
[72] DAVIDSON, KYLE R., US
[72] SCHNEIDER, RANDY L., US
[72] SAWASKI, JOEL D., US
[72] NELSON, ALFRED C., US
[73] DELTA FAUCET COMPANY, US

[86] (3055909)
[87] (3055909)
[22] 2016-01-18
[62] 2,918,026
[30] US (62/107,730) 2015-01-26
[30] US (14/996,974) 2016-01-15

[11] **3,056,235**
[13] C

[51] **Int.Cl. B65D 25/38 (2006.01) B67D 7/04 (2010.01) B65D 25/46 (2006.01)**

[25] EN

[54] **FUEL CONTAINER**

[54] **RESERVOIR A CARBURANT**

[72] SHAW, TIMOTHY JAMES, US
[73] SHAW, TIMOTHY JAMES, US

[85] 2019-09-11
[86] 2018-03-15 (PCT/US2018/022691)
[87] (WO2018/170294)
[30] US (62/471,808) 2017-03-15

[11] **3,057,011**
[13] C

[51] **Int.Cl. A01K 15/02 (2006.01) A01K 1/03 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR COUPLING AN EXERCISE WHEEL ACCESSORY TO A SMALL ANIMAL HABITAT**

[54] **SYSTEME ET METHODE POUR JOINDRE UN ACCESSOIRE DE ROUE D'EXERCICE A UN HABITAT POUR PETIT ANIMAL**

[72] TAMULEWICZ, PAUL, US
[72] WATSON, JEFFREY STOCKER, US
[73] PETSMART HOME OFFICE, INC., US

[86] (3057011)
[87] (3057011)
[22] 2019-09-27
[30] US (62/739,699) 2018-10-01
[30] US (16/567,985) 2019-09-11

[11] **3,057,529**
[13] C

[51] **Int.Cl. G05D 9/12 (2006.01) F04D 15/00 (2006.01) F04D 15/02 (2006.01)**

[25] EN

[54] **ADAPTIVE WATER LEVEL CONTROLS FOR WATER EMPTY OR FILL APPLICATIONS**

[54] **COMMANDES ADAPTATIVES DE NIVEAU D'EAU POUR APPLICATIONS DE VIDAGE OU DE REMPLISSAGE D'EAU**

[72] CHENG, ANDREW A., US
[72] RUFFO, MATT, US
[72] RUFF, JORDAN, US
[73] FLUID HANDLING LLC, US

[85] 2019-09-20
[86] 2018-03-21 (PCT/US2018/023476)
[87] (WO2018/175527)
[30] US (62/474,233) 2017-03-21

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[11] **3,057,779**
[13] C

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[25] EN
[54] **SELECTIVELY MOVEABLE VALVE ELEMENTS FOR ASPIRATION AND IRRIGATION CIRCUITS**
[54] **ELEMENTS DE SOUPAPE A DEPLACEMENT SELECTIF DESTINES A DES CIRCUITS D'ASPIRATION ET D'IRRIGATION**
[72] OLIVEIRA, MEL MATTHEW, US
[72] SORENSEN, GARY P., US
[72] MORGAN, MICHAEL D., US
[73] ALCON INC., CH
[86] (3057779)
[87] (3057779)
[22] 2012-11-27
[62] 2,855,744
[30] US (61/568,220) 2011-12-08

[11] **3,058,356**
[13] C

[51] **Int.Cl. F22B 29/12 (2006.01) F01K 13/02 (2006.01) F22B 29/06 (2006.01) F22B 35/10 (2006.01) F22B 35/14 (2006.01)**
[25] EN
[54] **WATER FEEDBACK IN VERTICAL FORCED-FLOW STEAM GENERATORS**
[54] **RECIRCULATION D'EAU DANS DES GENERATEURS DE VAPEUR VERTICAUX A CIRCULATION FORCEE**
[72] BRUCKNER, JAN, DE
[72] EFFERT, MARTIN, DE
[73] SIEMENS AKTIENGESSELLSCHAFT, DE
[85] 2019-09-27
[86] 2018-03-13 (PCT/EP2018/056199)
[87] (WO2018/177738)
[30] DE (10 2017 205 382.8) 2017-03-30

[11] **3,058,765**
[13] C

[51] **Int.Cl. G06F 16/23 (2019.01) G06F 16/27 (2019.01)**
[25] EN
[54] **REPLICATION LAG-CONSTRAINED DELETION OF DATA IN A LARGE-SCALE DISTRIBUTED DATA STORAGE SYSTEM**
[54] **SUPPRESSION DE DONNEES SOUS CONTRAINTE DE RETARD DE REPLICATION DANS UN SYSTEME DE MEMORISATION DE DONNEES DISTRIBUE A GRANDE ECHELLE**
[72] BAID, MEHANT, US
[72] MUNTEANU, BOGDAN, US
[72] TAHARA, DANIEL K., US
[73] DROPBOX, INC., US
[85] 2019-10-01
[86] 2018-01-29 (PCT/US2018/015803)
[87] (WO2018/217244)
[30] US (15/601,094) 2017-05-22

[11] **3,058,859**
[13] C

[51] **Int.Cl. E04G 19/00 (2006.01)**
[25] EN
[54] **HYDRAULIC SYSTEM FOR STRIPPING CONCRETE FORMS**
[54] **SYSTEME HYDRAULIQUE POUR LA DENUDATION DE COFFRAGES A BETON**
[72] SCHOCK, NATHAN, US
[73] HAWKEYEPEDERSHAAB CONCRETE TECHNOLOGIES, INC., US
[86] (3058859)
[87] (3058859)
[22] 2019-10-16
[30] US (16/580,701) 2019-09-24

[11] **3,060,476**
[13] C

[51] **Int.Cl. F21V 21/116 (2006.01) F21S 8/08 (2006.01)**
[25] EN
[54] **LIGHT POLE RETROFIT MOUNTING BRACKET**
[54] **SUPPORT DE MONTAGE AJUSTABLE POUR LA FIXATION A UN LAMPADAIRE**
[72] CHAMBERLAIN, PAUL, US
[72] GILMORE, JOHN, US
[72] WALLACE, COOPER, US
[73] LINMORE LED LABS, INC., US
[86] (3060476)
[87] (3060476)
[22] 2019-10-28
[30] US (62/797,609) 2019-01-28
[30] US (16/659,234) 2019-10-21

[11] **3,060,511**
[13] C

[51] **Int.Cl. E06C 5/00 (2006.01) B60R 9/042 (2006.01) B60R 11/06 (2006.01)**
[25] EN
[54] **VEHICLE RACK SYSTEM FOR STACKED LADDERS**
[54] **SYSTEME DE SUPPORT D'ECHELLES SUPERPOSEES POUR VEHICULE**
[72] HERRIMAN, ELIZABETH ELAINE, US
[72] HENRY, MARK ANTHONY, JR., US
[73] ADRIAN STEEL COMPANY, US
[86] (3060511)
[87] (3060511)
[22] 2019-10-29
[30] US (62/773,519) 2018-11-30
[30] US (16/665,680) 2019-10-28

[11] **3,060,975**
[13] C

[51] **Int.Cl. G07D 11/00 (2019.01) G07D 11/10 (2019.01) G07B 15/00 (2011.01)**
[25] EN
[54] **AUTONOMOUS CASH BOX AND PAYMENT TERMINAL RECEIVING THE AUTONOMOUS CASH BOX**
[54] **TIROIR-CAISSE AUTONOME ET TERMINAL DE PAIEMENT RECEVANT LE TIROIR-CAISSE AUTONOME**
[72] ROBITAILLE, CYRIL, CA
[73] ROBITAILLE, CYRIL, CA
[86] (3060975)
[87] (3060975)
[22] 2019-11-06
[30] US (62/756,965) 2018-11-07

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[11] **3,061,708**

[13] C

- [51] **Int.Cl. C07D 207/36 (2006.01) A61K 31/4015 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING INTERMEDIATE OF 4-METHOXYPYRROLE DERIVATIVE**
[54] **PROCEDE DE PREPARATION D'INTERMEDIAIRE DE DERIVE DE 4-METHOXYPYRROLE**
[72] SHIN, JEONG-TAEK, KR
[72] SON, JEONG HYUN, KR
[72] EOM, DEOK KI, KR
[72] LEE, CHUN HO, KR
[73] DAEWOONG PHARMACEUTICAL CO., LTD., KR
[85] 2019-10-28
[86] 2018-05-31 (PCT/KR2018/006188)
[87] (WO2018/221971)
[30] KR (10-2017-0067646) 2017-05-31

[11] **3,062,478**

[13] C

- [51] **Int.Cl. E21B 43/241 (2006.01) E21B 43/24 (2006.01) E21B 47/00 (2012.01)**
[25] EN
[54] **OPTIMIZATION OF GREENHOUSE GAS EMISSIONS IN A SOLVENT-BASED HEAVY OIL RECOVERY PROCESS**
[54] **OPTIMISATION DES EMISSIONS DE GAZ A EFFET DE SERRE DANS UN PROCEDE DE RECUPERATION D'HUILE LOURDE A BASE DE SOLVANT**
[72] FARSHIDI, FOROUGH, CA
[72] DADGOSTAR, NAFISEH, CA
[72] MOTAHHARI, HAMED R., CA
[72] KHALEDI, RAHMAN, CA
[73] IMPERIAL OIL RESOURCES LIMITED, CA
[86] (3062478)
[87] (3062478)
[22] 2019-11-22

[11] **3,063,401**

[13] C

- [51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/172 (2006.01) A61M 5/50 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETECTING OCCLUSIONS IN AN AMBULATORY INFUSION PUMP**
[54] **PROCEDE ET APPAREIL DE DETECTION D'OCCLUSIONS DANS UNE POMPE DE PERFUSION AMBULATOIRE**
[72] MOBERG, SHELDON B., US
[72] HANSON, IAN B., US
[72] TALBOT, CARY D., US
[73] MEDTRONIC MINIMED, INC., US
[86] (3063401)
[87] (3063401)
[22] 2006-12-21
[62] 2,998,939
[30] US (11/323104) 2005-12-30

[11] **3,065,728**

[13] C

- [51] **Int.Cl. F25B 45/00 (2006.01)**
[25] EN
[54] **REFRIGERATION SYSTEM WITH TRANSFER SYSTEM**
[54] **SYSTEME DE REFRIGERATION ET SYSTEME DE TRANSFERT**
[72] FAUSER, DAVID, CA
[72] BELL, JOSH, CA
[72] BORROWMAN, WAYNE, CA
[73] TOROMONT INDUSTRIES LTD., CA
[86] (3065728)
[87] (3065728)
[22] 2019-12-19
[30] US (62/781,966) 2018-12-19
[30] US (62/860,555) 2019-06-12

[11] **3,065,829**

[13] C

- [51] **Int.Cl. A47J 27/00 (2006.01) A47J 36/10 (2006.01)**
[25] EN
[54] **COOKING DEVICE AND COMPONENTS THEREOF**
[54] **DISPOSITIF DE CUISSON ET COMPOSANTS DE CELUI-CI**
[72] GILL, AARON MICHAEL, US
[72] RICHARDSON, ROSS, US
[72] ZABEL, NAOMI KALIA WILLIAMS, US
[72] DENG, DA, US
[72] GURSEL, METE, US
[72] TATTERSFIELD, ANDREW JOHN ROY, US
[72] DENHAM, NIALL CHRISTOPHER, US
[72] JACKSON, ROGER NEIL, US
[72] LEAHY, RONAN PATRICK, US
[72] WHITE, EVAN JAMES, US
[72] GUERIN, THOMAS, US
[72] MARTIN, CHRIS, US
[72] LAVINS, NATHANIEL R., US
[72] SWANHART, MACKENZIE LEE, US
[72] FERGUSON, SAMUEL ANDREW, US
[72] STEWART, SCOTT JAMES, US
[73] SHARKNINJA OPERATING LLC, US
[86] (3065829)
[87] (3065829)
[22] 2018-08-09
[62] 3,067,866
[30] US (62/543,082) 2017-08-09

[11] **3,067,104**

[13] C

- [51] **Int.Cl. A61B 50/30 (2016.01) A61F 5/44 (2006.01) A61J 1/00 (2006.01) A61M 25/00 (2006.01) B65B 5/04 (2006.01) B65B 31/02 (2006.01)**
[25] EN
[54] **PACKAGED PRECISION-LUBRICATED READY-TO-USE INTERMITTENT URINARY CATHETER**
[54] **CATHETER VESICAL INTERMITTENT PRET A UTILISER, LUBRIFIE AVEC PRECISION ET EMBALLE**
[72] PALMER, TIMOTHY, US
[73] CURE MEDICAL, LLC, US
[86] (3067104)
[87] (3067104)
[22] 2020-01-08
[30] US (16385440) 2019-04-16

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[11] **3,069,141**
[13] C
[51] **Int.Cl. B08B 17/04 (2006.01) C09D 5/16 (2006.01) G01C 13/00 (2006.01) G01N 33/18 (2006.01)**
[25] EN
[54] **ANTIFOULING ACCESSORY FOR FIELD DEPLOYED SENSORS AND INSTRUMENTS**
[54] **ACCESSOIRE ANTISALISSURE POUR DES CAPTEURS ET INSTRUMENTS DEPLOYES SUR LE TERRAIN**
[72] ROJO, MIGUEL ANGEL, US
[72] SCHIRMER, TIFFANY LAVON, US
[73] YSI, INC., US
[85] 2020-01-06
[86] 2018-07-09 (PCT/US2018/041231)
[87] (WO2019/010478)
[30] US (62/529,594) 2017-07-07

[11] **3,069,742**
[13] C
[51] **Int.Cl. B01J 19/00 (2006.01) B01L 3/00 (2006.01) B05D 3/10 (2006.01) B29C 35/02 (2006.01) C08J 3/24 (2006.01) G01N 33/543 (2006.01) H01L 21/027 (2006.01)**
[25] EN
[54] **SURFACE FUNCTIONALIZATION**
[54] **FONCTIONNALISATION DE SURFACE**
[72] LEVNER, DANIEL, US
[72] KERNS, S. JORDAN, US
[72] PUERTA, JEFFERSON, US
[73] EMULATE, INC., US
[85] 2020-01-10
[86] 2018-07-12 (PCT/US2018/041818)
[87] (WO2019/014441)
[30] US (62/531,705) 2017-07-12

[11] **3,070,136**
[13] C
[51] **Int.Cl. H01S 3/07 (2006.01) H01S 3/03 (2006.01) H01S 3/034 (2006.01) H01S 3/038 (2006.01) H01S 3/086 (2006.01)**
[25] EN
[54] **RADIO FREQUENCY SLAB LASER**
[54] **LASER A PLAQUE DE RADIOFREQUENCE**
[72] KERN, GERALD L., US
[72] JACKSON, PAUL E., US
[73] KERN TECHNOLOGIES, LLC, US
[86] (3070136)
[87] (3070136)
[22] 2020-01-28
[30] EP (19158714.6) 2019-02-22

[11] **3,072,482**
[13] C
[51] **Int.Cl. E01C 19/42 (2006.01) E01C 19/48 (2006.01)**
[25] EN
[54] **COMBINATION DOOR/PLATFORM FOR MAINTENANCE ACCESS FOR CONVEYOR OF MATERIAL TRANSFER VEHICLE**
[54] **COMBINAISON PORTE/PLATEFORME POUR ACCES DE MAINTENANCE POUR TRANSPORTEUR DE VEHICULE DE TRANSFERT DE MATERIAU**
[72] NEISEN, MATTHEW, US
[73] ROADTEC, INC., US
[85] 2020-02-07
[86] 2018-07-30 (PCT/US2018/044332)
[87] (WO2019/050637)
[30] US (62/556,576) 2017-09-11

[11] **3,073,758**
[13] C
[51] **Int.Cl. G01F 23/66 (2006.01) G01F 1/64 (2006.01) G01F 23/22 (2006.01) H01M 10/48 (2006.01)**
[25] EN
[54] **BATTERY ELECTROLYTE LEVEL MONITOR, SYSTEM, AND METHOD**
[54] **MONITEUR, SYSTEME ET PROCEDE DE SURVEILLANCE DE NIVEAU D'ELECTROLYTE DE BATTERIE**
[72] FOX, JASON L., US
[72] BONNAH, HARRIE W., II, US
[72] PAUL, LUKE J., US
[72] SHINAW, MATTHEW T., US
[73] FLOW-RITE CONTROLS, LTD., US
[85] 2020-02-21
[86] 2018-11-28 (PCT/US2018/062842)
[87] (WO2019/125712)
[30] US (15/852,920) 2017-12-22

[11] **3,076,561**
[13] C
[51] **Int.Cl. C25B 11/031 (2021.01) C25B 11/061 (2021.01) C25B 11/073 (2021.01) C25B 1/04 (2021.01) C23C 28/02 (2006.01) C23F 17/00 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING AN ELECTROCATALYST**
[54] **PROCEDE DE PRODUCTION D'UN ELECTROCATALYSEUR**
[72] BISHWAS, SUMON, DK
[73] HYMETH APS, DK
[85] 2020-03-20
[86] 2018-09-19 (PCT/EP2018/075335)
[87] (WO2019/057763)
[30] EP (17192444.2) 2017-09-21

[11] **3,077,100**
[13] C
[51] **Int.Cl. C07C 2/82 (2006.01)**
[25] EN
[54] **A PROCESS FOR CONVERTING A NATURAL GAS FEEDSTOCK WITH INERT CONTENT TO CHEMICAL INTERMEDIATES**
[54] **PROCEDE DE CONVERSION D'UNE CHARGE D'ALIMENTATION DE GAZ NATUREL POURVUE D'UN CONTENU INERTE EN INTERMEDIAIRES CHIMIQUES**
[72] RAJAGOPALAN, VIJAYANAND, IN
[72] BROEKHUIS, ROBERT, US
[72] GAUTAM, PANKAJ SINGH, US
[72] SANSANI, VIDYA SAGAR REDDY, US
[73] SABIC GLOBAL TECHNOLOGIES, B.V., NL
[85] 2020-03-26
[86] 2018-05-10 (PCT/US2018/032128)
[87] (WO2019/083561)
[30] US (62/576,514) 2017-10-24

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[11] **3,077,399**
[13] C

[51] **Int.Cl. G01N 29/22 (2006.01) B63G 8/00 (2006.01) G01N 21/88 (2006.01) G01N 29/26 (2006.01) G01N 29/265 (2006.01) G01S 17/89 (2020.01) G02B 23/24 (2006.01) G21C 17/013 (2006.01) H04N 5/225 (2006.01)**

[25] EN

[54] **METHODS FOR HANDLING A MOBILE PLATFORM IN A TANK CONTAINING NON-CONDUCTIVE HAZARDOUS SUBSTANCES**

[54] **PROCEDES DE GESTION D'UNE PLATE-FORME MOBILE DANS UN RESERVOIR CONTENANT DES SUBSTANCES DANGEREUSES NON CONDUCTRICES**

[72] MEYERS, JOHN W., US

[72] DAILY, JOSEPH A., US

[72] EFFINGER, ROBERT T., IV, US

[72] PONTRELLI, DONALD A., US

[72] LOVELACE, JAMES TODD, US

[72] GILLORY, RONALD, US

[72] CASSIMATIS, DAVID JOHN, US

[72] CHEUVRONT, DAVID L., US

[73] TANKBOTS, INC., US

[85] 2020-03-27

[86] 2018-12-15 (PCT/US2018/065888)

[87] (WO2019/118950)

[30] US (PCT/US2017/066758) 2017-12-15

[11] **3,077,403**
[13] C

[51] **Int.Cl. G06Q 20/00 (2012.01)**

[25] EN

[54] **SYSTEMS FOR REAL-TIME ANALYSIS AND REPORTING OF UTILITY USAGE AND SPEND**

[54] **SYSTEMES D'ANALYSE ET DE RAPPORT EN TEMPS REEL D'UTILISATION ET DE DEPENSES DE SERVICES**

[72] KIZIUK, STEVE R., US

[72] PITT, ROBERT BRUCE, US

[72] MANKEY, PAIGE A., US

[72] LAMB, MADELINE RAE, US

[73] MOUNTAIN VECTOR ENERGY, LLC, US

[85] 2020-03-29

[86] 2017-09-08 (PCT/US2017/050767)

[87] (WO2018/063779)

[30] US (62/402,742) 2016-09-30

[11] **3,080,737**
[13] C

[51] **Int.Cl. H04W 24/02 (2009.01) H04W 84/12 (2009.01)**

[25] FR

[54] **PRIMARY CHANNEL SELECTION METHOD FOR WIRELESS COMMUNICATIONS**

[54] **PROCEDE DE SELECTION DE CANAL PRIMAIRE POUR DES COMMUNICATIONS SANS-FIL**

[72] REUCHE, ANTHONY, FR

[72] LALAM, MASSINISSA, FR

[73] SAGEMCOM BROADBAND SAS, FR

[85] 2020-04-28

[86] 2018-10-29 (PCT/EP2018/079589)

[87] (WO2019/086386)

[30] FR (1760262) 2017-10-31

[11] **3,081,691**
[13] C

[51] **Int.Cl. B65G 69/34 (2006.01) B65G 67/24 (2006.01)**

[25] EN

[54] **UNBINDING APPARATUS, METHODS, AND SYSTEMS**

[54] **APPAREIL, METHODES ET SYSTEMES DE DESACTIVATION**

[72] BARTELS, BRIAN KENNETH ARTHUR, CA

[73] BARTELS, BRIAN KENNETH ARTHUR, CA

[86] (3081691)

[87] (3081691)

[22] 2020-05-28

[11] **3,082,393**
[13] C

[51] **Int.Cl. G06F 3/01 (2006.01) G06F 9/451 (2018.01) G06F 11/00 (2006.01) G06F 11/34 (2006.01)**

[25] EN

[54] **DEVICE, SYSTEM AND METHOD FOR CORRECTING OPERATIONAL DEVICE ERRORS**

[54] **DISPOSITIF, SYSTEME ET PROCEDE DE CORRECTION D'ERREURS DE FONCTIONNEMENT DE DISPOSITIF**

[72] LIM, BING QIN, MY

[72] GAN, GUO DONG, MY

[72] KEE, CHEW YEE, MY

[73] MOTOROLA SOLUTIONS, INC., US

[85] 2020-05-11

[86] 2018-11-06 (PCT/US2018/059436)

[87] (WO2019/099244)

[30] US (15/816,241) 2017-11-17

[11] **3,084,086**
[13] C

[51] **Int.Cl. G06F 16/24 (2019.01) G06F 21/62 (2013.01) G06F 16/22 (2019.01) G06F 16/27 (2019.01) G06F 16/903 (2019.01)**

[25] EN

[54] **BLOCKCHAIN-BASED SMART CONTRACT INVOCATION METHOD AND APPARATUS, AND ELECTRONIC DEVICE**

[54] **PROCEDE ET APPAREIL D'APPEL DE CONTRAT INTELLIGENT SUR LA BASE D'UNE CHAINE DE BLOCS, ET DISPOSITIF ELECTRONIQUE**

[72] QIU, HONGLIN, CN

[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY

[85] 2020-05-29

[86] 2019-06-27 (PCT/US2019/039405)

[87] (WO2020/006172)

[30] CN (201810681250.4) 2018-06-27

[11] **3,084,257**
[13] C

[51] **Int.Cl. A01F 12/24 (2006.01) A01F 12/26 (2006.01) A01F 12/28 (2006.01)**

[25] EN

[54] **CONCAVE COVER PLATE SYSTEM AND METHODS**

[54] **SYSTEME DE PLAQUES DE RECOUVREMENT CONCAVES ET PROCEDES**

[72] ROBERTSON, BRIAN, US

[73] ROBERTSON, BRIAN, US

[85] 2020-06-02

[86] 2018-11-20 (PCT/US2018/062008)

[87] (WO2019/112794)

[30] US (15/832,142) 2017-12-05

[30] US (16/050,714) 2018-07-31

[30] US (16/129,432) 2018-09-12

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[11] **3,086,843**
[13] C

[51] **Int.Cl. C01D 5/16 (2006.01) B01D 61/42 (2006.01) C01D 5/00 (2006.01) C01D 15/00 (2006.01) C22B 1/02 (2006.01) C22B 3/04 (2006.01) C22B 3/20 (2006.01) C22B 26/10 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING LITHIUM-CONTAINING MATERIALS**

[54] **METHODS DE TRAITEMENT DE MATERIAUX CONTENANT DU LITHIUM**

[72] MAGNAN, JEAN-FRANCOIS, CA
[72] BOURASSA, GUY, CA
[72] LAROCHE, NICOLAS, CA
[72] PEARSE, GARY, CA
[72] MACKIE, STEPHEN CHARLES, CA
[72] GLADKOVAS, MYKOLAS, CA
[72] SYMONS, PETER, US
[72] GENDERS, J. DAVID, US
[72] CLAYTON, GENEVIEVE, CA
[72] BOUCHARD, PIERRE, CA
[73] NEMASKA LITHIUM INC., CA
[86] (3086843)
[87] (3086843)
[22] 2015-02-24
[62] 3,047,774
[30] US (61/943,700) 2014-02-24

[11] **3,087,620**
[13] C

[51] **Int.Cl. H04W 84/06 (2009.01) H04W 16/28 (2009.01) H04W 16/32 (2009.01) H04W 56/00 (2009.01) H04W 88/16 (2009.01) H04B 7/024 (2017.01) H04B 7/15 (2006.01)**

[25] EN

[54] **INTER-SITE TRANSMISSION/PROPAGATION DELAY CORRECTION WHEN APPLYING SITE DIVERSITY IN HAPS FEEDER LINK**

[54] **CORRECTION DE RETARD DE TRANSMISSION/PROPAGATION DE SITE A SITE PENDANT L'APPLICATION D'UNE DIVERSITE DE SITE DANS UNE LIAISON DE CONNEXION HAPS**

[72] HOSHINO, KENJI, JP
[73] SOFTBANK CORP., JP
[85] 2020-07-03
[86] 2018-12-21 (PCT/JP2018/047258)
[87] (WO2019/135369)
[30] JP (2018-000311) 2018-01-04

[11] **3,088,269**
[13] C

[51] **Int.Cl. G01N 1/36 (2006.01)**

[25] EN

[54] **TISSUE EMBEDDING CASSETTE WITH SHIELD**

[54] **CASSETTE ENROBEE DE TISSU AVEC PROTECTION**

[72] AMBARTSOUMIAN, GOURGEN, CA
[73] AMBARTSOUMIAN, GOURGEN, CA
[85] 2020-08-17
[86] 2020-04-09 (PCT/CA2020/050471)
[87] (WO2020/206545)

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[30] US (62/833,198) 2019-04-12

[11] **3,088,406**
[13] C

[51] **Int.Cl. C07K 14/00 (2006.01) C07K 14/195 (2006.01) C07K 14/315 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS OF PRODUCING PHARMACEUTICAL GRADE LANTIBIOTICS**

[54] **PROCEDES ET SYSTEMES DE PRODUCTION DE LANTIBIOTIQUES DE QUALITE PHARMACEUTIQUE**

[72] CRABB, JOSEPH H., US
[72] ZINCKGRAF, JOHN W., US
[72] FROEBE, HANNA, US
[73] IMMUCELL CORPORATION, US
[85] 2020-07-13
[86] 2019-01-09 (PCT/US2019/012909)
[87] (WO2019/139992)
[30] US (15/868,765) 2018-01-11

[11] **3,089,670**
[13] C

[51] **Int.Cl. B22F 9/14 (2006.01) B33Y 70/00 (2020.01) B29C 64/141 (2017.01) B29C 64/30 (2017.01) B01J 2/04 (2006.01) C04B 35/626 (2006.01) C08J 3/12 (2006.01)**

[25] EN

[54] **PROCESS AND APPARATUS FOR PRODUCING POWDER PARTICLES BY ATOMIZATION OF A FEED MATERIAL IN THE FORM OF AN ELONGATED MEMBER**

[54] **PROCEDE ET APPAREIL DE PRODUCTION DE PARTICULES DE POUDRE PAR LA PULVERISATION D'UN MATERIAU ALIMENTE PRENANT LA FORME D'UN ELEMENT ALLONGE**

[72] AUGER, ALEXANDRE, CA
[72] BOULOS, MAHER I., CA
[72] JUREWICZ, JERZY W., CA
[73] TEKNA PLASMA SYSTEMS INC., CA
[86] (3089670)
[87] (3089670)
[22] 2015-03-09
[62] 3,065,675
[30] US (61/950,915) 2014-03-11
[30] US (62/076,150) 2014-11-06

[11] **3,090,058**
[13] C

[51] **Int.Cl. C25C 3/34 (2006.01) C25B 15/06 (2006.01) C25C 3/36 (2006.01) C25C 7/00 (2006.01) G21C 19/48 (2006.01)**

[25] EN

[54] **CONTINUOUS REPROCESSING OF SPENT NUCLEAR FUEL**

[54] **RETRAITEMENT EN CONTINU DE COMBUSTIBLE NUCLEAIRE EPUISE**

[72] SCOTT, IAN RICHARD, GB
[73] SCOTT, IAN RICHARD, GB
[85] 2020-07-29
[86] 2019-01-30 (PCT/GB2019/050249)
[87] (WO2019/150099)
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[13] C

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[25] EN
[54] **FAST FIT BRACKET ASSEMBLY**
[54] **ASSEMBLAGE DE SUPPORT DE FIXATION RAPIDE**

[72] ELLIOTT, TIMOTHY, US
[73] KENNEY MANUFACTURING COMPANY, US

[86] (3091347)
[87] (3091347)
[22] 2020-08-27
[30] US (16/556,968) 2019-08-30

[11] **3,093,678**
[13] C

[51] **Int.Cl. B01D 65/00 (2006.01) B01D 65/10 (2006.01)**

[25] EN
[54] **METHOD AND APPARATUS FOR REAL-TIME DIRECT MEMBRANE SURFACE MONITORING**
[54] **PROCEDE ET APPAREIL DE SURVEILLANCE DIRECTE DE SURFACE DE MEMBRANE EN TEMPS REEL**

[72] RAHARDIANTO, ANDITYA, US
[72] BILAL, MUHAMMAD, US
[73] NORIA WATER TECHNOLOGIES, INC., US

[85] 2020-09-10
[86] 2018-04-23 (PCT/US2018/028823)
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[11] **3,095,789**
[13] C

[51] **Int.Cl. B25G 1/04 (2006.01) A46B 5/00 (2006.01) A46B 15/00 (2006.01) B25G 1/06 (2006.01) B60S 3/04 (2006.01)**

[25] EN
[54] **TOOL WITH ARTICULATED HANDLE**
[54] **OUTIL A POIGNEE ARTICULEE**

[72] SAVARD, NORMAND, CA
[73] SAVARD, NORMAND, CA

[85] 2020-10-01
[86] 2019-06-21 (PCT/CA2019/050871)
[87] (WO2019/241894)
[30] CA (3009220) 2018-06-22

[11] **3,096,478**
[13] C

[51] **Int.Cl. C12Q 1/6858 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6848 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6876 (2018.01)**

[25] EN
[54] **HIGHLY SELECTIVE NUCLEIC ACID AMPLIFICATION PRIMERS**
[54] **AMORCES D'AMPLIFICATION D'ACIDES NUCLEIQUES TRES SELECTIVES**

[72] MARRAS, SALVATORE A. E., US
[72] VARGAS-GOLD, DIANA, US
[72] TYAGI, SANJAY, US
[72] KRAMER, FRED RUSSELL, US
[73] RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, US

[86] (3096478)
[87] (3096478)
[22] 2014-02-07
[62] 2,900,259
[30] US (61/762,117) 2013-02-07

[11] **3,099,894**
[13] C

[51] **Int.Cl. B60N 2/08 (2006.01) B60N 2/07 (2006.01) B60N 2/68 (2006.01)**

[25] EN
[54] **SLIDING DEVICE FOR A VEHICLE SEAT**
[54] **DISPOSITIF DE COULISSEMENT POUR UN SIEGE DE VEHICULE**

[72] SPAGNOLI, LUIGI, IT
[72] USTUNBERK, CAN, IT
[73] MARTUR ITALY S.R.L., IT

[85] 2020-11-10
[86] 2019-04-17 (PCT/IB2019/053167)
[87] (WO2019/224624)
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[11] **3,101,079**
[13] C

[51] **Int.Cl. G06F 3/0481 (2013.01) G06Q 10/06 (2012.01) G06F 3/0484 (2013.01) B61K 9/08 (2006.01)**

[25] EN
[54] **LINEAR ASSETS INSPECTION SYSTEM**
[54] **SYSTEME LINEAIRE DE CONTROLE D'ACTIFS**

[72] TAYS, DWIGHT, CA
[72] LILLEY, DAVID, CA
[72] ABBOTT, BRIAN, CA
[73] CANADIAN NATIONAL RAILWAY COMPANY, CA

[86] (3101079)
[87] (3101079)
[22] 2008-08-22
[62] 2,992,198
[30] US (61/071,849) 2008-05-21

[11] **3,105,819**
[13] C

[51] **Int.Cl. G05D 1/03 (2006.01) E05F 15/70 (2015.01) A01D 34/00 (2006.01)**

[25] EN
[54] **GROUND WIRE GUIDANCE SYSTEM FOR ROBOTIC VEHICLE WITH DOORWAY ACCESS**
[54] **SYSTEME DE GUIDAGE PAR FIL AU SOL POUR VEHICULE ROBOTIQUE AVEC ACCES PAR UN PASSAGE**

[72] CRANDALL, JUSTIN, US
[72] LOMONT, BART M., US
[72] MELBOURNE, DAVID J., US
[73] ROBIN TECHNOLOGIES, INC., US

[85] 2021-01-06
[86] 2019-07-26 (PCT/US2019/043592)
[87] (WO2020/028160)
[30] US (16/050,256) 2018-07-31

[11] **3,109,365**
[13] C

[51] **Int.Cl. A63B 23/08 (2006.01) A61H 1/02 (2006.01) A63B 21/02 (2006.01) A63B 21/04 (2006.01) A63B 23/04 (2006.01) A63B 26/00 (2006.01)**

[25] EN
[54] **CALF STRETCHING APPARATUS**
[54] **APPAREIL D'ETIREMENT DE MOLLET**

[72] BAROUCHE, DAVID, US
[73] BAROUCHE, DAVID, US

[85] 2021-02-10
[86] 2018-11-21 (PCT/US2018/062352)
[87] (WO2020/036616)
[30] US (16/103,004) 2018-08-14

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[21] **3,064,087**
[13] A1
[51] **Int.Cl. G06Q 10/10 (2012.01) G06N 20/00 (2019.01) G10L 15/26 (2006.01)**
[25] EN
[54] **NOSY SMART EVENT SCHEDULER**
[54] **PLANIFICATEUR INTELLIGENT D'ÉVÈNEMENT**
[72] AJISE, DAVID, CA
[71] AJISE, DAVID, CA
[22] 2019-12-06
[41] 2021-06-06

[21] **3,064,089**
[13] A1
[51] **Int.Cl. A01K 85/00 (2006.01) A01K 75/00 (2006.01) A01K 85/01 (2006.01)**
[25] EN
[54] **METHOD OF TRAPPING FISH UTILIZING GAS BUBBLES AND A FISH TRAP UTILIZING GAS BUBBLES**
[54] **METHODE POUR PECHER DU POISSON EN UTILISANT DES BULLES DE GAZ ET PIEGE A POISSONS UTILISANT DES BULLES DE GAZ**
[72] EARNSHAW, JOHN, CA
[71] DUBADECA HOLDINGS LTD., CA
[22] 2019-12-06
[41] 2021-06-06

[21] **3,064,110**
[13] A1
[51] **Int.Cl. G06F 16/48 (2019.01) G06Q 30/02 (2012.01) G06F 16/78 (2019.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING UNIQUE INTERACTIVE MEDIA CONTENT**
[54] **SYSTEME ET METHODE POUR FOURNIR DU CONTENU MEDIATIQUE INTERACTIF UNIQUE**
[72] JENSEN, MATTHEW, CA
[71] MAXOGRAM MEDIA INC., CA
[22] 2019-12-06
[41] 2021-06-06

[21] **3,064,117**
[13] A1
[51] **Int.Cl. G08G 1/07 (2006.01) E01F 9/615 (2016.01) H04W 4/44 (2018.01) G08G 1/14 (2006.01)**
[25] EN
[54] **ELECTRONIC TRAFFIC ALERT SYSTEM**
[54] **SYSTEME D'ALERTE DE TRAFIC ELECTRONIQUE**
[72] DIBA, KEYVAN T., US
[71] DIBA, KEYVAN T., US
[22] 2019-12-06
[41] 2021-06-06

[21] **3,064,128**
[13] A1
[51] **Int.Cl. A01K 63/00 (2017.01) A01G 9/00 (2018.01) A01G 9/14 (2006.01) A01K 63/04 (2006.01) B05B 17/08 (2006.01)**
[25] EN
[54] **AN ARTIFICIAL INTEGRATED ECOSYSTEM WITH COMBINATIONAL FUNCTIONS OF THE AQUARIUM, FOUNTAIN, AND IRRIGATION**
[54] **ECOSYSTEME INTEGRE ARTIFICIEL AVEC FONCTIONS COMBINATOIRES DE LA FONTAINE D'AQUARIUM, ET IRRIGATION**
[72] UNKNOWN, XX
[71] LU, DINGLIN, CA
[22] 2019-12-06
[41] 2021-06-06

[21] **3,064,213**
[13] A1
[51] **Int.Cl. C11D 17/00 (2006.01) C11D 1/02 (2006.01) C11D 3/10 (2006.01) C11D 3/22 (2006.01)**
[25] EN
[54] **SOLID DETERGENT**
[54] **DETERGENT SOLIDE**
[72] KANG, SEUNG JAE, KR
[72] JEONG, DAE HAN, KR
[71] KEVIN ORCHARD CO., LTD., KR
[22] 2019-12-09
[41] 2021-06-09

[21] **3,064,217**
[13] A1
[51] **Int.Cl. A42B 3/04 (2006.01) A42B 3/06 (2006.01) A42B 3/28 (2006.01) A42B 3/30 (2006.01)**
[25] EN
[54] **HARD HAT ACCESSORIES KIT**
[54] **TROUSSE ACCESSOIRE DE CASQUE PROTECTEUR**
[72] MUDE, FUAD A., CA
[72] MUDE, KAMAL, CA
[71] MUDE, FUAD A., CA
[71] MUDE, KAMAL, CA
[22] 2019-12-09
[41] 2021-06-09

[21] **3,064,232**
[13] A1
[51] **Int.Cl. A42B 3/18 (2006.01)**
[25] EN
[54] **ADJUSTABLE LOWER FACE SHIELD PROTECTION FOR SPORTS HELMET**
[54] **ECRAN FACIAL INFERIEUR REGLABLE POUR CASQUE DE SPORT**
[72] UNKNOWN, XX
[72] LABROSSE-GIRARD, LOIC, CA
[72] DAIGLE, DOMINIC, CA
[71] S.H.I.E.L.D. PROTECTION G.P., CA
[22] 2019-12-07
[41] 2021-06-07

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[21] **3,064,238**
[13] A1

[51] **Int.Cl. B66F 7/28 (2006.01)**
[25] EN
[54] **ARM RESTRAINTS FOR VEHICLE LIFT AND VEHICLE LIFT INCLUDING THE SAME**
[54] **ACCOUDOIRS POUR PONT ELEVATEUR POUR VEHICULES ET PONT ELEVATEUR POUR VEHICULES COMPORTANT LEDIT ACCOUDOIR**
[72] MAILHOT, LUC, CA
[72] MITCHELL, NORMAND, CA
[72] JEAN, STEPHANE, CA
[71] CANADA HYDRAULIQUE EQUIPEMENT INC., CA
[22] 2019-12-06
[41] 2021-06-06

[21] **3,064,242**
[13] A1

[51] **Int.Cl. H01P 1/19 (2006.01) B81B 7/02 (2006.01)**
[25] EN
[54] **PLANAR MEMS-BASED PHASE SHIFTER**
[54] **DEPHASEUR FONDE SUR LE MEMS PLANAIRE**
[72] RAEESI, AMIR, CA
[72] GHAFARIAN, NAIME, CA
[72] GIGOYAN, SUREN, CA
[72] SAFAVI-NAEINI, SAFIEDDIN, CA
[71] C-COM SATELLITE SYSTEMS INC., CA
[22] 2019-12-09
[41] 2021-06-09

[21] **3,064,257**
[13] A1

[51] **Int.Cl. B60K 28/10 (2006.01) B60K 26/00 (2006.01) B60K 28/02 (2006.01)**
[25] EN
[54] **SAFETY DEVICE FOR VEHICLE ACCELERATOR**
[54] **DISPOSITIF DE SECURITE POUR ACCELERATEUR DE VEHICULE**
[72] WU, WEN-YI, CN
[71] WU, WEN-YI, CN
[22] 2019-12-08
[41] 2021-06-08

[21] **3,064,380**
[13] A1

[51] **Int.Cl. H04L 12/58 (2006.01) H04L 12/953 (2013.01) H04L 12/22 (2006.01)**
[25] EN
[54] **METHOD OF USING SEQUENTIAL EMAIL NUMBERING TO DETECT AN EMAIL PHISHING ATTEMPT OR FRAUDULENT EMAIL WITHIN AN EMAIL DOMAIN**
[54] **METHODE D'UTILISATION DE LA NUMEROTATION DU COURRIEL SEQUENTIELLE POUR DETECTER UNE TENTATIVE D'HAMECONNAGE PAR COURRIEL OU UN COURRIEL FRAUDULEUX A L'INTERIEUR D'UN DOMAINE DE COURRIEL**
[72] PEARCE, WILLIAM MICHAEL, CA
[71] PEARCE, WILLIAM MICHAEL, CA
[22] 2019-12-10
[41] 2021-06-10

[21] **3,064,455**
[13] A1

[51] **Int.Cl. A01K 7/02 (2006.01) A01K 13/00 (2006.01)**
[25] EN
[54] **PORTABLE INSULATING SELF-WATERING APPARATUS**
[54] **APPAREIL D'AUTO-ARROSAGE ISOLANT PORTATIF**
[72] SMITH, TERENCE FRASER LEE, CA
[71] SMITH, TERENCE FRASER LEE, CA
[22] 2019-12-10
[41] 2021-06-10

[21] **3,064,541**
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) H04L 12/24 (2006.01)**
[25] EN
[54] **VIRTUAL NETWORK MONITORING SYSTEM, VIRTUAL NETWORK MONITORING APPARATUS, VIRTUAL NETWORK MONITORING METHOD, AND NON-TRANSITORY COMPUTER-READABLE RECORDING MEDIUM**
[54] **SYSTEME DE SURVEILLANCE DU RESEAU VIRTUEL, APPAREIL DE SURVEILLANCE DU RESEAU VIRTUEL, METHODE DE SURVEILLANCE DU RESEAU VIRTUEL, ET SUPPORT D'ENREGISTREMENT SOUS FORME ELECTRONIQUE NON TRANSITOIRE**
[72] TAKANO, YUKI, JP
[72] TACHIBANA, TOMOKAZU, JP
[72] FUKUDA, MASATSUGU, JP
[71] NTT ADVANCED TECHNOLOGY CORPORATION, JP
[22] 2019-12-11
[41] 2021-06-11

[21] **3,064,579**
[13] A1

[51] **Int.Cl. A41D 20/00 (2006.01) B26B 19/38 (2006.01)**
[25] EN
[54] **HEBAND**
[54] **HEBAND**
[72] MCIVOR, CRAIG J., CA
[71] MCIVOR, CRAIG J., CA
[22] 2019-12-11
[41] 2021-06-11

[21] **3,064,582**
[13] A1

[51] **Int.Cl. E02B 3/04 (2006.01) B65D 30/00 (2006.01) B65D 37/00 (2006.01)**
[25] EN
[54] **COLLAPSIBLE RECEPACLE**
[54] **PRISE ESCAMOTABLE**
[72] CLOUTIER, JEAN-FRANCOIS, CA
[71] DIGUES CITADEL INC., CA
[22] 2019-12-11
[41] 2021-06-06
[30] US (62/944,405) 2019-12-06

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[21] **3,064,587**
[13] A1

[51] **Int.Cl. B23B 47/02 (2006.01) B23B 45/00 (2006.01)**
[25] EN
[54] **LOW PROFILE RIGHT ANGLE CUTTING ASSEMBLY**
[54] **ENSEMBLE DE COUPE A ANGLE DROIT ET A PROFIL BAS**
[72] UNKNOWN, XX
[71] WRIGHT, JOSEPH R., CA
[22] 2019-12-11
[41] 2021-06-11

[21] **3,064,592**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06Q 30/06 (2012.01) G06Q 20/00 (2012.01)**
[25] EN
[54] **PAYMENT APPLICATION AND METHOD**
[54] **APPLICATION ET METHODE DE PAIEMENT**
[72] CUZZETTO, ANTHONY, CA
[71] CUZZETTO, ANTHONY, CA
[22] 2019-12-11
[41] 2021-06-10
[30] US (16/709,888) 2019-12-10

[21] **3,064,605**
[13] A1

[51] **Int.Cl. B60S 5/02 (2006.01) B67D 7/04 (2010.01) B67D 7/06 (2010.01)**
[25] EN
[54] **SELF-DIRECTING AUTOMATIC FUEL REFILLING DEVICE**
[54] **APPAREIL DE RAVITAILLEMENT DES CARBURANTS AUTOMATIQUE AUTODIRIGE**
[72] DONG, ZHU XUAN, CA
[71] DONG, ZHU XUAN, CA
[22] 2019-12-11
[41] 2021-06-11

[21] **3,064,813**
[13] A1

[51] **Int.Cl. G05D 3/20 (2006.01) G01S 15/08 (2006.01)**
[25] EN
[54] **ULTRASONIC POSITION DETECTION TEMPERATURE CALIBRATION**
[54] **ETALONNAGE DE LA TEMPERATURE DE DETECTION DE POSITION ULTRASONIQUE**
[72] VIJAY, ASHISH, IN
[72] RANI, UDAYA, IN
[72] JOSYULA, ANIL PRASAD, IN
[72] VENKATESHA, HARISH, IN
[71] HAMILTON SUNDSTRAND CORPORATION, US
[22] 2019-12-11
[41] 2021-06-11

[21] **3,064,909**
[13] A1

[51] **Int.Cl. A63B 67/00 (2006.01)**
[25] EN
[54] **GAME OF SKILL**
[54] **JEU D'ADRESSE**
[72] PIERRE, WALTER, CA
[72] ADECLAT, MARIO JACQUES, CA
[71] PIERRE, WALTER, CA
[71] ADECLAT, MARIO JACQUES, CA
[22] 2019-12-12
[41] 2021-06-12

[21] **3,064,924**
[13] A1

[51] **Int.Cl. G09D 3/00 (2006.01)**
[25] EN
[54] **GLOBAL CALENDAR**
[54] **CALENDRIER MONDIAL**
[72] KAMYABI, KHOSRO, CA
[71] KAMYABI, KHOSRO, CA
[22] 2019-12-12
[41] 2021-06-12

[21] **3,065,017**
[13] A1

[51] **Int.Cl. E03C 1/06 (2006.01) A47K 3/28 (2006.01) E03C 1/02 (2006.01)**
[25] EN
[54] **DOUBLE SHOWER DEVICE**
[54] **DISPOSITIF DE DOUCHE DOUBLE**
[72] TZENG, RONG-CHYAN, CN
[71] NCIP INC., CN
[22] 2019-12-12
[41] 2021-06-12

[21] **3,068,028**
[13] A1

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **MULTI-STAGE DRAW INDICATION SYSTEM FOR A VAPORIZATION DEVICE**
[54] **SYSTEME D'INDICATION DE TIRAGE MULTIETAPE POUR UN DISPOSITIF DE VAPORISATION**
[72] GREEN, JEREMY, US
[72] CLULEE, ALEX, AU
[71] 14TH ROUND INC., US
[22] 2020-01-15
[41] 2021-06-09
[30] US (16/707,919) 2019-12-09

[21] **3,073,858**
[13] A1

[51] **Int.Cl. B60R 9/048 (2006.01) B60P 7/08 (2006.01)**
[25] EN
[54] **APPARATUS FOR TYING A BOARD TO A VEHICLE ROOF**
[54] **APPAREIL POUR ATTACHER UN PANNEAU AU TOIT D'UN VEHICULE**
[72] YEH, TZONG IN, US
[71] YEH, TZONG IN, US
[22] 2020-02-27
[41] 2021-06-12
[30] TW (108145604) 2019-12-12

[21] **3,074,230**
[13] A1

[51] **Int.Cl. B65D 41/04 (2006.01)**
[25] EN
[54] **CHILD RESISTANT LIP PRODUCT MATERIAL DISPENSER**
[54] **DISTRIBUTEUR DE PRODUIT POUR LEVRES A L'EPREUVE DES ENFANTS**
[72] ZHANG, KEVIN, CN
[72] GREEN, JEREMY, US
[72] CLULEE, ALEX, AU
[71] 14TH ROUND INC., US
[22] 2020-02-28
[41] 2021-06-09
[30] US (16/708,126) 2019-12-09

Demandes canadiennes mises à la disponibilité du public
6 juin 2021 au 12 juin 2021

[21] **3,075,797**
[13] A1

[51] **Int.Cl. B01J 23/74 (2006.01) B01J 35/00 (2006.01) B01J 37/02 (2006.01) C01C 1/04 (2006.01) C01G 55/00 (2006.01)**

[25] EN

[54] **RUTHENIUM-BASED CATALYST FOR AMMONIA SYNTHESIS AND PREPARATION METHOD AND USE THEREOF**

[54] **CATALYSEUR A BASE DE RUTHENIUM POUR SYNTHESE DE L'AMMONIAC ET PROCEDE DE PREPARATION ET SON UTILISATION**

[72] JIANG, LILONG, CN
[72] NI, JUN, CN
[72] LIN, JIANXIN, CN
[72] HE, SHENGBAO, CN
[72] LIN, KE, CN
[72] LIN, BINGYU, CN
[72] LING, XINGYI, CN
[71] BEIJING SANJU ENVIRONMENTAL PROTECTION & NEW MATERIALS CO., LTD., CN
[71] PETROCHINA PETROCHEMICAL RESEARCH INSTITUTE, CN
[71] NATIONAL ENGINEERING RESEARCH CENTER OF CHEMICAL FERTILIZER CATALYST, FUZHOU UNIVERSITY, CN

[22] 2020-03-16
[41] 2021-06-06
[30] CN (CN201911246502.1) 2019-12-06

[21] **3,077,236**
[13] A1

[51] **Int.Cl. A63B 59/70 (2015.01)**

[25] EN

[54] **HOCKEY STICK AND BLADE FOR HOCKEY STICK**

[54] **BATON DE HOCKEY ET PALETTE DE BATON DE HOCKEY**

[72] ROUZIER, EDOUARD, CA
[72] CHAMBERT, MARTIN, CA
[71] BAUER HOCKEY LTD., CA

[22] 2020-03-27
[41] 2021-06-12
[30] US (16/830,896) 2020-03-26
[30] US (PCT/US19/65908) 2019-12-12

[21] **3,077,583**
[13] A1

[51] **Int.Cl. F16L 9/08 (2006.01) E03F 3/04 (2006.01) F16L 9/14 (2006.01) F16L 17/067 (2006.01)**

[25] EN

[54] **PREFABRICATED PART WITH A CONCRETE BODY**

[54] **PIECE PREFABRIQUEE AVEC CORPS DE BETON**

[72] PREDL, MANFRED, DE
[71] PREDL GMBH, DE

[22] 2020-04-07
[41] 2021-06-06
[30] DE (202019004970.3) 2019-12-06

[21] **3,080,358**
[13] A1

[51] **Int.Cl. E04H 9/02 (2006.01) E04B 1/94 (2006.01) E04B 2/88 (2006.01) E04H 9/14 (2006.01) F16B 1/00 (2006.01)**

[25] EN

[54] **CONNECTING DEVICE**

[54] **APPAREIL DE BRANCHEMENT**

[72] BAI, BAOKUN, CN
[71] GUANGDONG KIN LONG HARDWARE PRODUCTS CO., LTD., CN

[22] 2020-05-06
[41] 2021-06-11
[30] CN (201911268595.8) 2019-12-11

[21] **3,080,663**
[13] A1

[51] **Int.Cl. B62D 37/02 (2006.01)**

[25] EN

[54] **INNER WHEEL SKIRT REDUCING VEHICLE DRAG**

[54] **JUPE DE ROUE INTERIEURE POUR REDUIRE LA TRAINEE DU VEHICULE**

[72] MAGEE, GARTH L., US
[71] MAGEE, GARTH L., US

[22] 2020-05-08
[41] 2021-06-06
[30] US (16706480) 2019-12-06

[21] **3,080,865**
[13] A1

[51] **Int.Cl. A47J 42/40 (2006.01) A24B 7/00 (2006.01) A24C 5/02 (2006.01) A24C 5/40 (2006.01) A24F 47/00 (2020.01) A47J 42/34 (2006.01) B02C 18/16 (2006.01)**

[25] EN

[54] **TOBACCO GRINDING, SORTING AND/OR LOADING DEVICE**

[54] **DISPOSITIF DE CHARGEMENT, DE TRI ET/OU DE BROYAGE DU TABAC**

[72] SPIELMAN, ZACHARY ELLIOTT, US
[71] ZES PRODUCTS, LLC, US

[22] 2020-05-19
[41] 2021-06-10
[30] US (16/857,151) 2020-04-23
[30] US (62/946,353) 2019-12-10

[21] **3,081,503**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61K 31/519 (2006.01) A61K 31/565 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **METHODS OF USING A BISPECIFIC ANTIGEN-BINDING CONSTRUCT TARGETING HER2 IN COMBINATION WITH CDK4/6 INHIBITORS FOR THE TREATMENT OF BREAST CANCER**

[54] **PROCEDES D'UTILISATION D'UNE CONSTRUCTION DE FIXATION DE L'ANTIGENE BISPECIFIQUE CIBLANT HER2 EN COMBINAISON AVEC LES INHIBITEURS CDK4/6 POUR LE TRAITEMENT DU CANCER DU SEIN**

[72] WEISSER, NINA E., CA
[72] HAUSMAN, DIANA F., CA
[72] KAMINKER, PATRICK, US
[71] ZYMEWORKS INC., CA
[71] WEISSER, NINA E., CA
[71] HAUSMAN, DIANA F., US
[71] KAMINKER, PATRICK, US

[22] 2020-05-29
[41] 2021-06-06
[30] US (62/944,822) 2019-12-06

**Canadian Applications Open to Public Inspection
June 6, 2021 to June 12, 2021**

[21] **3,081,976**
[13] A1

[51] **Int.Cl. B62D 37/02 (2006.01) B60R 19/54 (2006.01) B62D 35/00 (2006.01)**

[25] EN

[54] **LATERALLY INSET TRAILER SKIRT AND INNER WHEEL SKIRT PANEL, EACH REDUCING VEHICLE DRAG**

[54] **JUPE DE REMORQUE INSEREE LATERALEMENT ET PANNEAU DE JUPE DE ROUE INTERIEURE, CHACUNE REDUISANT LA TRAINEE DU VEHICULE**

[72] MAGEE, GARTH L., US

[71] MAGEE, GARTH L., US

[22] 2020-06-04

[41] 2021-06-06

[30] US (16706480) 2019-12-06

[21] **3,085,023**
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) A47G 1/16 (2006.01) A47G 29/00 (2006.01) A47G 33/00 (2006.01) F16B 45/00 (2006.01)**

[25] EN

[54] **HOOK AND LATTICE ADJUSTABLE WREATH HANGER**

[54] **CROCHET DE COURONNE AJUSTABLE AVEC ACCROCHE ET GRILLE**

[72] KACINES, JEFFERY J., US

[71] KACINES, JEFFERY J., US

[22] 2020-06-30

[41] 2021-06-06

[30] US (16/705,513) 2019-12-06

[21] **3,085,273**
[13] A1

[51] **Int.Cl. G02B 6/26 (2006.01) G02B 1/18 (2015.01) G02B 1/00 (2006.01)**

[25] EN

[54] **MID-INFRARED OPTICAL FIBERS WITH ENHANCED OH-DIFFUSION RESISTANCE**

[54] **FIBRES OPTIQUES A INFRAROUGES MOYENS AVEC RESISTANCE AMELIOREE DE DIFFUSION DE OH**

[72] BERNIER, MARTIN, CA

[72] VALLEE, REAL, CA

[72] TOUBOU BAH, SOULEYMANE, CA

[72] FORTIN, VINCENT, CA

[72] MAES, FREDERIC, CA

[72] AYDIN, YIGIT OZAN, CA

[71] UNIVERSITE LAVAL, CA

[22] 2020-07-02

[41] 2021-06-12

[30] US (62/947,192) 2019-12-12

[21] **3,089,357**
[13] A1

[51] **Int.Cl. B60N 2/28 (2006.01)**

[25] EN

[54] **CHILD RESTRAINT SPIN LOCK AND A SAFETY SEAT HAVING THE SAME**

[54] **VERROU TOURNANT DE RETENUE D'ENFANT ET SIEGE DE SECURITE-ENFANT MUNI DUDIT VERROU**

[72] WILLIAMS, BRUCE L., US

[71] WONDERLAND SWITZERLAND AG, CH

[22] 2020-08-07

[41] 2021-06-12

[30] US (62/947,239) 2019-12-12

[21] **3,090,355**
[13] A1

[51] **Int.Cl. A01B 59/042 (2006.01) A01B 71/06 (2006.01) A01D 34/86 (2006.01) B60D 1/42 (2006.01) B60D 1/48 (2006.01)**

[25] EN

[54] **ARTICULATED IMPLEMENT TOWING APPARATUS**

[54] **APPAREIL DE REMORQUAGE AVEC ELEMENT ARTICULE**

[72] GRASS, MARTIN, CA

[72] BERG, WALDEMAR, CA

[72] REDEKOP, JOHAN, CA

[71] J A REDEKOP HOLDING LTD., CA

[22] 2020-08-18

[41] 2021-06-09

[30] US (62945615) 2019-12-09

[21] **3,090,612**
[13] A1

[51] **Int.Cl. A01K 7/00 (2006.01)**

[25] EN

[54] **LIVESTOCK WATERING APPARATUS**

[54] **APPAREIL D'ARROSAGE DU BETAIL**

[72] SMITH, TERENCE FRASER LEE, CA

[71] SMITH, TERENCE FRASER LEE, CA

[22] 2020-08-20

[41] 2021-06-10

[30] CA (3,064,455) 2019-12-10

[21] **3,095,269**
[13] A1

[51] **Int.Cl. H04L 12/16 (2006.01) G09B 5/00 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **MESSAGE BOARDS**

[54] **BABILLARDS**

[72] SUDMAN, DAVID, US

[72] ARSINOW, ALAN, US

[72] KOGA, KEVIN, US

[72] SCHEER, JON, US

[72] YARD, BRENT, US

[71] RAULAND-BORG CORPORATION, US

[22] 2020-10-05

[41] 2021-06-12

[30] US (16/711629) 2019-12-12

Demandes canadiennes mises à la disponibilité du public
6 juin 2021 au 12 juin 2021

[21] **3,096,612**
[13] A1

[51] **Int.Cl. B01J 20/28 (2006.01) B01J 20/22 (2006.01)**

[25] EN

[54] **INTELLIGENT RESPONSE-TYPE NANOFIBER-BASED OIL-ABSORBING MATERIAL AND PREPARATION METHOD AND USE THEREOF**

[54] **MATERIAU ABSORBANT D'HUILE DE NANOFIBRES DE TYPE DE REPONSE INTELLIGENTE, PROCEDE DE PREPARATION ET SON UTILISATION**

[72] HE, HUI, CN

[72] QIN, CHENGRONG, CN

[72] ZHU, HONGXIANG, CN

[72] WANG, LEI, CN

[72] ZHAO, CHAO, CN

[72] CHEN, RIMEI, CN

[72] QUAN, ZONGYAN, CN

[72] CHEN, ZHIPING, CN

[71] GUANGXI UNIVERSITY, CN

[22] 2020-10-16

[41] 2021-06-10

[30] CN (202010868176.4) 2020-08-26

[21] **3,096,642**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 7/00 (2006.01) G06F 17/00 (2019.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING NON-CAUSAL DEPENDENCIES IN MACHINE LEARNING MODELS**

[54] **SYSTEMES ET PROCEDES POUR DETECTER DES DEPENDANCES NON-CAUSALES AUX MODELES D'APPRENTISSAGE AUTOMATIQUE**

[72] CLARKE, GREGORY, CA

[71] SHOPIFY INC., CA

[22] 2020-10-20

[41] 2021-06-12

[30] US (16/711538) 2019-12-12

[21] **3,097,015**
[13] A1

[51] **Int.Cl. H01Q 1/12 (2006.01) H01Q 1/18 (2006.01) H01Q 3/08 (2006.01)**

[25] EN

[54] **ANTENNA ALIGNMENT SYSTEM INCLUDING TECHNICIAN TOOL MOUNT AND RELATED METHODS**

[54] **SYSTEME D'ALIGNEMENT D'ANTENNE, Y COMPRIS LE SUPPORT DE L'OUTIL DU TECHNICIEN ET PROCEDES CONNEXES**

[72] WATTWOOD, JAMES A., US

[71] SUNSIGHT HOLDINGS, LLC, US

[22] 2020-10-23

[41] 2021-06-12

[30] US (16/711,869) 2019-12-12

[21] **3,097,721**
[13] A1

[51] **Int.Cl. B64D 15/12 (2006.01) F03D 80/40 (2016.01) B64C 27/473 (2006.01)**

[25] EN

[54] **ICE PROTECTION SYSTEM FOR ROTARY BLADES**

[54] **SYSTEME DE PROTECTION DE LA GLACE POUR DES LAMES CIRCULAIRES**

[72] HU, JIN, US

[72] SLANE, CASEY, US

[72] BOTURA, GALDEMIR CEZAR, US

[72] CHING, NATHANIEL, US

[71] GOODRICH CORPORATION, US

[22] 2020-10-30

[41] 2021-06-12

[30] US (16/711,867) 2019-12-12

[21] **3,098,029**
[13] A1

[51] **Int.Cl. F41A 19/10 (2006.01) F41A 19/16 (2006.01)**

[25] EN

[54] **TRIGGER RESISTANCE SETTING MECHANISM**

[54] **MECANISME DE DETENTE DE REGLAGE DE LA RESISTANCE**

[72] MALINA, JAROSLAV, CZ

[71] CESKA ZBROJOVKA A.S., CZ

[22] 2020-11-03

[41] 2021-06-06

[30] CZ (PV2019-748) 2019-12-06

[21] **3,099,195**
[13] A1

[51] **Int.Cl. H04W 4/70 (2018.01) H04W 88/16 (2009.01) D06F 34/05 (2020.01) A47L 15/42 (2006.01)**

[25] EN

[54] **METHOD, SYSTEM, AND DEVICE FOR REMOTELY COMMUNICATING WITH AND CONTROLLING LAUNDRY UNITS**

[54] **PROCEDE, SYSTEME ET DISPOSITIF POUR COMMUNIQUER A DISTANCE AVEC LES UNITES DE LAVAGE ET LES CONTROLER**

[72] CHIAVETTA, SCOTT, US

[72] DILL, ADAM, US

[72] CORDOBA, MAURO, US

[72] DICKSON, ALAN, US

[71] ALLIANCE LAUNDRY SYSTEMS LLC, US

[22] 2020-11-13

[41] 2021-06-09

[30] US (16/707,747) 2019-12-09

[21] **3,099,312**
[13] A1

[51] **Int.Cl. G01S 5/00 (2006.01) B60C 23/04 (2006.01) B60R 16/023 (2006.01) B60T 17/22 (2006.01)**

[25] EN

[54] **METHOD FOR AUTO-LOCATING POSITIONS OF A PLURALITY OF WIRELESS SENSORS ON A VEHICLE AND AN APPARATUS THEREFOR**

[54] **PROCEDE ET APPAREIL POUR AUTO-LOCALISER LES POSITIONS DE PLUSIEURS CAPTEURS SANS FIL DANS UN VEHICULE**

[72] SHEIKH-BAHAIE, KIAN, US

[72] PATTERSON, ROBERT G., US

[72] LAMMERS, SHAWN D., US

[72] CHEN, QING (STEVEN), US

[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US

[22] 2020-11-13

[41] 2021-06-09

[30] US (16/707452) 2019-12-09

**Canadian Applications Open to Public Inspection
June 6, 2021 to June 12, 2021**

[21] **3,099,515**
[13] A1

[51] **Int.Cl. B01D 29/11 (2006.01) B01D 29/66 (2006.01)**
[25] EN
[54] **FILTER ELEMENT, FILTER, FILTER DEVICE, AND METHOD OF USE**
[54] **CARTOUCHE FILTRANTE, FILTRE ET DISPOSITIF DE FILTRE ET PROCEDE D'UTILISATION**
[72] WHITLOCK, MICHAEL B., US
[72] BRAND, SAMANTHA M., US
[72] CINQUANTI, NICHOLAS R., US
[71] PALL CORPORATION, US
[22] 2020-11-17
[41] 2021-06-09
[30] US (16/707,325) 2019-12-09

[21] **3,099,961**
[13] A1

[51] **Int.Cl. A41D 19/015 (2006.01)**
[25] EN
[54] **PROTECTIVE FIRE GLOVE**
[54] **GANT DE PROTECTION CONTRE LE FEU**
[72] LOCHNER, TOM, US
[71] FIRECRAFT SAFETY PRODUCTS, LLC, US
[22] 2020-11-19
[41] 2021-06-09
[30] US (16/707826) 2019-12-09

[21] **3,100,261**
[13] A1

[51] **Int.Cl. B60P 1/43 (2006.01)**
[25] EN
[54] **GEARED RAMP ASSEMBLY WITH RAISED RAMP POSITION AND SIDE RAILS AND METHOD OF USE**
[54] **ENSEMBLE RAMPE A ENGRENAGES AVEC POSITION DE RAMPE ELEVEE ET RAILS LATERAUX ET PROCEDE D'UTILISATION**
[72] SMITH, ADAM, US
[72] KLINE, JUSTIN M., US
[71] THE BRAUN CORPORATION, US
[22] 2020-11-20
[41] 2021-06-09
[30] US (62/945,291) 2019-12-09
[30] US (63/026,777) 2020-05-19
[30] US (17/094,930) 2020-11-11

[21] **3,100,369**
[13] A1

[51] **Int.Cl. B60T 3/00 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT WHEEL CHOCK**
[54] **CALE DE ROUE LEGERE**
[72] WIDGERY, GREG, US
[71] CHECKERS INDUSTRIAL PRODUCTS, LLC, US
[22] 2020-11-20
[41] 2021-06-06
[30] US (16/706293) 2019-12-06

[21] **3,100,418**
[13] A1

[51] **Int.Cl. A61B 17/56 (2006.01)**
[25] EN
[54] **ORTHOPAEDIC SURGICAL INSTRUMENT SYSTEM HAVING AN ANTERIOR-LOADING TIBIAL BEARING TRIAL AND ASSOCIATED SURGICAL METHOD OF USING THE SAME**
[54] **SYSTEME D'INSTRUMENT CHIRURGICAL ORTHOPEDIQUE MUNI D'UN ESSAI DE PATIN TIBIAL DE CHARGEMENT ANTERIEUR ET METHODE CHIRURGICALE CONNEXE POUR UTILISER LEDIT SYSTEME**
[72] WEBB, ANTHONY J., US
[72] SHULAW, CORY A., US
[72] CARVER, ADAM L., US
[71] DEPUY IRELAND UNLIMITED COMPANY, IE
[22] 2020-11-23
[41] 2021-06-09
[30] US (16/707,425) 2019-12-09

[21] **3,100,456**
[13] A1

[51] **Int.Cl. B66F 11/00 (2006.01) B60J 7/10 (2006.01) B66C 13/54 (2006.01) E02F 9/16 (2006.01)**
[25] EN
[54] **SELF-PROPELLED OPERATING MACHINE EQUIPPED WITH AN IMPROVED CABIN**
[54] **MACHINE DE MANOEUVRE AUTO-ENTRAINEE MUNIE D'UNE CABINE AMELIOREE**
[72] IOTTI, MARCO, IT
[71] MANITOU ITALIA S.R.L., IT
[22] 2020-11-24
[41] 2021-06-10
[30] IT (102019000023532) 2019-12-10

[21] **3,100,651**
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/13 (2006.01)**
[25] EN
[54] **PLUGGING DEVICES HAVING FILAMENTS COATED WITH SWELLABLE MATERIAL**
[54] **APPAREILS DE BRANCHEMENT MUNIS DE FILAMENTS REVETUS D'UN MATERIAU GONFLABLE**
[72] FUNKHOUSER, GARY P., US
[71] THRU TUBING SOLUTIONS, INC., US
[22] 2020-11-25
[41] 2021-06-09
[30] US (PCT/US2019/065157) 2019-12-09

[21] **3,100,668**
[13] A1

[51] **Int.Cl. B60R 22/10 (2006.01) A01K 27/00 (2006.01) B60R 22/12 (2006.01) B60R 22/34 (2006.01)**
[25] EN
[54] **SELF-TENSIONING AND RETRACTING PET SAFETY BELT DEVICE**
[54] **DISPOSITIF DE CEINTURE DE SECURITE POUR ANIMAUX AUTO-REGLABLE ET RETRACTABLE**
[72] ANDERSON, REID, CA
[71] ANDERSON, REID, CA
[22] 2020-11-26
[41] 2021-06-09
[30] US (62945543) 2019-12-09

[21] **3,100,680**
[13] A1

[51] **Int.Cl. E04F 19/04 (2006.01)**
[25] EN
[54] **BASEBOARD**
[54] **PLINTHE**
[72] BORDIN, DENNIS, IT
[71] PROGRESS PROFILES SPA, IT
[22] 2020-11-26
[41] 2021-06-11
[30] IT (102019000023565) 2019-12-11

Demandes canadiennes mises à la disponibilité du public
6 juin 2021 au 12 juin 2021

[21] **3,100,796**
[13] A1

[51] **Int.Cl. B60P 7/08 (2006.01) F16G 11/12 (2006.01)**
 [25] EN
 [54] **SAFETY TENSIONING DEVICE FOR AUTOMOBILES**
 [54] **DISPOSITIF DE TENSION DE SECURITE POUR LES AUTOMOBILES**
 [72] CHEN, WEIGUO, CN
 [72] CHEN, YANQIONG, CN
 [72] DENG, WEI, CN
 [71] NINGBO XULI METAL PRODUCTS CO.,LTD., CN
 [22] 2020-11-26
 [41] 2021-06-06
 [30] CN (201911237673.8) 2019-12-06

[21] **3,100,805**
[13] A1

[51] **Int.Cl. B66C 23/72 (2006.01) B66C 23/36 (2006.01) B66F 11/00 (2006.01)**
 [25] EN
 [54] **ROTARY TOWER WITH BALLAST**
 [54] **TOUR ROTATIVE AVEC BALLAST**
 [72] IOTTI, MARCO, IT
 [71] MANITOU ITALIA S.R.L., IT
 [22] 2020-11-26
 [41] 2021-06-11
 [30] IT (102019000023631) 2019-12-11

[21] **3,100,864**
[13] A1

[51] **Int.Cl. G06N 10/00 (2019.01)**
 [25] EN
 [54] **HOLOGRAPHIC QUANTUM DYNAMICS SIMULATION**
 [54] **SIMULATION DYNAMIQUE QUANTIQUE HOLOGRAPHIQUE**
 [72] FEIG, MICHAEL, US
 [72] POTTER, ANDREW C., US
 [71] HONEYWELL INTERNATIONAL INC., US
 [22] 2020-11-26
 [41] 2021-06-06
 [30] US (16/705727) 2019-12-06

[21] **3,101,128**
[13] A1

[51] **Int.Cl. H04W 4/029 (2018.01) H04W 24/10 (2009.01) H04B 17/318 (2015.01)**
 [25] EN
 [54] **CELLULAR MONITORING APPLICATION**
 [54] **APPLICATION DE SURVEILLANCE CELLULAIRE**
 [72] LABRIE, MARTIN, CA
 [71] LABRIE, MARTIN, CA
 [22] 2020-11-30
 [41] 2021-06-06
 [30] US (16/705,796) 2019-12-06

[21] **3,101,157**
[13] A1

[51] **Int.Cl. B64C 1/06 (2006.01)**
 [25] EN
 [54] **ARCHED HORIZONTAL PRESSURE DECK TO REAR SPAR GUTTER**
 [54] **PONT DE PRESSION A L'HORIZONTALE ARQUE A LA CUVETTE D'ENTRAINEMENT ARRIERE**
 [72] MCLAUGHLIN, MARK R., US
 [72] LEIBOV, DAVID H., US
 [72] PARAVATA, SOMA GOPALA RAO, US
 [72] MENANNO, ALFONS, US
 [72] VUKOSAV, DANILO, US
 [71] THE BOEING COMPANY, US
 [22] 2020-11-30
 [41] 2021-06-06
 [30] US (16/706266) 2019-12-06

[21] **3,101,161**
[13] A1

[51] **Int.Cl. A47L 11/34 (2006.01) A47L 11/292 (2006.01)**
 [25] EN
 [54] **SURFACE CLEANING APPARATUS**
 [54] **APPAREIL DE NETTOYAGE DE SURFACE**
 [72] PRUIETT, JASON W., US
 [72] RESCH, JACOB, US
 [72] HOTARY, JAMES THEODORE, US
 [72] WANG, GUOSHUN, US
 [71] BISSELL INC., US
 [22] 2020-11-30
 [41] 2021-06-09
 [30] US (62/945,263) 2019-12-09

[21] **3,101,256**
[13] A1

[51] **Int.Cl. G01N 25/18 (2006.01) G01N 25/72 (2006.01)**
 [25] EN
 [54] **METHOD FOR ASSESSING THE LONG-TERM THERMAL RESISTANCE OF CLOSED-CELL THERMAL INSULATING FOAMS AT MULTIPLE MEAN TEMPERATURES**
 [54] **PROCEDE POUR EVALUER LA RESISTANCE THERMIQUE A LONG TERME DE MOUSSES D'ISOLATION THERMIQUE A CELLULE FERMEE A DIFFERENTES TEMPERATURES MOYENNES**
 [72] OWENS, STEVEN G., US
 [71] COVESTRO LLC, US
 [22] 2020-11-30
 [41] 2021-06-10
 [30] US (16/708,525) 2019-12-10

[21] **3,101,287**
[13] A1

[51] **Int.Cl. G06N 10/00 (2019.01)**
 [25] EN
 [54] **SUPPRESSING/TRANSFORMING LEAKAGE ERRORS IN HYPERFINE QUBITS**
 [54] **SUPPRESSION/TRANSFORMATION DES ERREURS DE FUITE DANS LES QUBITS HYPERFINS**
 [72] HAYES, DAVID, US
 [72] STUTZ, RUSSELL, US
 [71] HONEYWELL INTERNATIONAL, INC., US
 [22] 2020-12-01
 [41] 2021-06-10
 [30] US (16/709290) 2019-12-10

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[21] **3,101,289**
[13] A1

[51] **Int.Cl. E04B 2/96 (2006.01) E04B 2/88 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS AND APPARATUS FOR INTERLOCKING UNITIZED CURTAINWALL BUILDING FACADE**

[54] **SYSTEMES, PROCEDES ET APPAREILS POUR L'INTERVERROUILLAGE D'UNE FACADE DE BATIMENT EN MUR-RIDEAU A L'UNITE**

[72] TOFFOLI, ELIO, CA

[71] BVGLAZING SYSTEMS LTD., CA

[22] 2020-11-30

[41] 2021-06-06

[30] US (16/705,335) 2019-12-06

[21] **3,101,429**
[13] A1

[51] **Int.Cl. H02H 3/093 (2006.01) A61G 5/04 (2013.01) A61G 5/10 (2006.01)**

[25] EN

[54] **PROTECTION APPARATUS AND METHOD FOR AN ELECTRIC WHEELCHAIR**

[54] **APPAREIL ET PROCEDE DE PROTECTION POUR UN FAUTEUIL ROULANT ELECTRIQUE**

[72] PECK, JOHN HAMISH, GB

[71] PENNY & GILES CONTROLS LIMITED, GB

[22] 2020-12-02

[41] 2021-06-11

[30] GB (1918197.3) 2019-12-11

[21] **3,101,445**
[13] A1

[51] **Int.Cl. A01K 1/03 (2006.01) A01K 1/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MONITORING AIR FLOW IMPURITY**

[54] **PROCEDE ET SYSTEME POUR SURVEILLER LES IMPURETES DANS LA CIRCULATION D'AIR**

[72] COIRO, JOHN M., US

[72] BILECKI, BRIAN M., US

[72] MILLER, STEVEN, US

[71] ALLENTOWN, LLC, US

[22] 2020-12-02

[41] 2021-06-06

[30] US (16/705,311) 2019-12-06

[21] **3,101,542**
[13] A1

[51] **Int.Cl. F24B 5/00 (2006.01) A47J 37/07 (2006.01) F24C 15/32 (2006.01)**

[25] EN

[54] **AIR CIRCULATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE CIRCULATION D'AIR**

[72] JAMES, CHRIS, US

[72] KOSTER, ANDREW, US

[71] DANSONS US, LLC, US

[22] 2020-12-03

[41] 2021-06-11

[30] US (16/710,504) 2019-12-11

[21] **3,101,550**
[13] A1

[51] **Int.Cl. F24B 5/00 (2006.01) A47J 37/07 (2006.01) F24C 15/32 (2006.01)**

[25] EN

[54] **REMOVABLE BURN POT**

[54] **POT DE COMBUSTION AMOVIBLE**

[72] JAMES, CHRIS, US

[71] DANSONS US, LLC, US

[22] 2020-12-03

[41] 2021-06-11

[30] US (16/710,490) 2019-12-11

[21] **3,101,555**
[13] A1

[51] **Int.Cl. B64D 11/00 (2006.01) H02J 50/00 (2016.01) H02J 50/30 (2016.01) B64D 41/00 (2006.01)**

[25] EN

[54] **CABIN INTERIOR ARRANGEMENT COMPRISING A POWER TRANSFER ARRANGEMENT FOR AN AIRCRAFT, AND AIRCRAFT COMPRISING THE CABIN INTERIOR ARRANGEMENT**

[54] **DISPOSITION INTERIEURE DE LA CABINE COMPRENANT UNE DISPOSITION DE TRANSFERT D'ENERGIE POUR UN AERONEF, ET AERONEF COMPRENANT LA DISPOSITION INTERIEURE DE LA CABINE**

[72] GUT, TOBIAS, DE

[72] RICHTER, MARTIN, DE

[72] PETERSEN, BENNO, DE

[71] DIEHL AEROSPACE GMBH, DE

[22] 2020-12-02

[41] 2021-06-11

[30] DE (102019008569.8) 2019-12-11

[21] **3,101,557**
[13] A1

[51] **Int.Cl. A47L 13/44 (2006.01) A47L 13/16 (2006.01) A47L 13/24 (2006.01)**

[25] EN

[54] **A CLEANING DEVICE WITH A DISPOSABLE CLEANING HEAD**

[54] **UN DISPOSITIF DE NETTOYAGE AVEC UNE TETE DE NETTOYAGE JETABLE**

[72] HATTIN, ROBERT S., CA

[71] HATTIN, ROBERT S., CA

[22] 2020-12-03

[41] 2021-06-10

[30] US (62946041) 2019-12-10

[21] **3,101,577**
[13] A1

[51] **Int.Cl. A01G 23/10 (2006.01)**

[25] EN

[54] **TREE TAP AND METHOD OF USING SAME**

[54] **CHALUMEAU D'ARBRE ET METHODE D'UTILISATION**

[72] ADAM, FREDERIC, CA

[71] ADAM, FREDERIC, CA

[22] 2020-12-03

[41] 2021-06-10

[30] US (62945980) 2019-12-10

[21] **3,101,588**
[13] A1

[51] **Int.Cl. F01D 17/16 (2006.01) F01D 9/04 (2006.01) F04D 29/46 (2006.01)**

[25] EN

[54] **ASSEMBLY FOR A COMPRESSOR SECTION OF A GAS TURBINE ENGINE**

[54] **ENSEMBLE POUR UNE SECTION DU COMPRESSEUR D'UNE TURBINE A GAZ**

[72] ANAND, KARAN, CA

[72] YU, HONG, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2020-12-03

[41] 2021-06-06

[30] US (16/705,452) 2019-12-06

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[21] **3,101,656**
[13] A1

[51] **Int.Cl. E06C 7/42 (2006.01)**
[25] EN
[54] **LADDER STABILIZER APPARATUS**
[54] **APPAREIL STABILISATEUR D'ECHELLE**
[72] GERBRANDT, ALBERT L., CA
[71] GERBRANDT, ALBERT L., CA
[22] 2020-12-04
[41] 2021-06-12
[30] US (62947065) 2019-12-12

[21] **3,101,701**
[13] A1

[51] **Int.Cl. B66D 1/44 (2006.01) B66D 1/08 (2006.01)**
[25] EN
[54] **NO TITLE SPECIFIED**
[54] **AUCUN TITRE SPECIFIE**
[72] SOETEMANS, DEVAN ANTHONY, CA
[72] SCHMIDT, QUINN MATHEW, US
[71] SOETEMANS, DEVAN ANTHONY, CA
[71] SCHMIDT, QUINN MATHEW, US
[22] 2020-12-04
[41] 2021-06-06
[30] US (62/944,962) 2019-12-06

[21] **3,101,713**
[13] A1

[51] **Int.Cl. H04L 29/02 (2006.01) G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING DATA STREAMS**
[54] **SYSTEMES ET METHODES DE TRAITEMENT DES FLUX DE DONNEES**
[72] PATEL, RAKESH THAKOR, CA
[72] WEI, JEFF, CA
[72] DALTON, BARNABY, CA
[71] EVERTZ MICROSYSTEMS LTD., CA
[22] 2020-12-04
[41] 2021-06-06
[30] US (62/944,543) 2019-12-06

[21] **3,101,714**
[13] A1

[51] **Int.Cl. H04N 7/15 (2006.01) H04N 21/2347 (2011.01) H04N 21/81 (2011.01) G06F 16/70 (2019.01) G10L 15/26 (2006.01) H04L 12/16 (2006.01) H04L 12/58 (2006.01)**
[25] EN
[54] **SECURE, IMMUTABLE AND VERIFIABLE INTERVIEW RECORDS**
[54] **DOSSIERS D'ENTREVUE SECURITAIRES, IMMUABLES ET VERIFIABLES**
[72] BEARDSWORTH, DAVID, GB
[72] STONE, JEDDIAH, GB
[72] EMPSON, JONATHAN, GB
[71] ISSURED LIMITED, GB
[22] 2020-12-04
[41] 2021-06-12
[30] GB (1918314.4) 2019-12-12
[30] EP (20207550.3) 2020-11-13

[21] **3,101,715**
[13] A1

[51] **Int.Cl. A47L 11/40 (2006.01) A47L 9/00 (2006.01) A47L 11/24 (2006.01)**
[25] EN
[54] **AUTONOMOUS FLOOR CLEANER AND DOCKING STATION**
[54] **NETTOYANT POUR PARQUETS AUTONOME ET STATION D'ACCUEIL**
[72] BROWN, ADAM, US
[71] BISSELL INC., US
[22] 2020-12-03
[41] 2021-06-06
[30] US (62/944,602) 2019-12-06

[21] **3,101,717**
[13] A1

[51] **Int.Cl. A47L 11/40 (2006.01) A47L 9/28 (2006.01)**
[25] EN
[54] **AUTONOMOUS FLOOR CLEANER WITH AUDIBLE WARNING**
[54] **NETTOYANT POUR PARQUETS AVEC AVERTISSEMENT SONORE**
[72] BROWN, ADAM, US
[71] BISSELL INC., US
[22] 2020-12-04
[41] 2021-06-06
[30] US (62/944,593) 2019-12-06

[21] **3,101,718**
[13] A1

[51] **Int.Cl. G01S 17/36 (2006.01) B23K 26/02 (2014.01) B23K 26/14 (2014.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING THE SEPARATION DISTANCE BETWEEN A BODY AND THE SURFACE OF AN OBJECT BY MEANS OF LOW COHERENCE OPTICAL INTERFEROMETRY TECHNIQUES UNDER DISTORTION DUE TO SUB-SAMPLING**
[54] **METHODE ET SYSTEME POUR DETERMINER LA DISTANCE DE SEPARATION ENTRE UN CORPS ET LA SURFACE D'UN OBJET AU MOYEN DE TECHNIQUES D'INTERFEROMETRIE EN FAIBLE COHERENCE OPTIQUE REPOasant SUR UNE DISTORSION EN RAISON D'UN SOUS-ECHANTILLONNAGE**
[72] DONADELLO, SIMONE, IT
[72] PREVITALI, BARBARA, IT
[72] COLOMBO, DANIELE, IT
[71] ADIGE S.P.A., IT
[22] 2020-12-04
[41] 2021-06-06
[30] IT (102019000023202) 2019-12-06

[21] **3,101,748**
[13] A1

[51] **Int.Cl. B60L 58/18 (2019.01) B60L 58/12 (2019.01) B60L 58/24 (2019.01)**
[25] EN
[54] **BATTERY MANAGEMENT SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE GESTION DES BATTERIES**
[72] REA, DAVID, US
[72] KAYE, KENNETH L., US
[72] REED, DAVID JAMES, US
[72] FRONK, MATTHEW, US
[72] GREY, THADDEUS, US
[71] THE RAYMOND CORPORATION, US
[22] 2020-12-04
[41] 2021-06-06
[30] US (62/944825) 2019-12-06

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[21] **3,101,753**
[13] A1

[51] **Int.Cl. F16L 55/162 (2006.01) F16L 57/06 (2006.01)**
[25] EN
[54] **METHOD OF REINFORCING PIPE AND REINFORCED PIPE**
[54] **METHODE DE RENFORCEMENT DE TUYAU ET TUYAU RENFORCE**
[72] LANCASTER, IAN, US
[72] WAGNER, AMBER, US
[72] REYES, VICTOR, US
[72] ORTIZ, REYMUENDO, US
[71] INA ACQUISITION CORP, US
[22] 2020-12-04
[41] 2021-06-06
[30] US (62/944562) 2019-12-06

[21] **3,101,784**
[13] A1

[51] **Int.Cl. E21B 34/14 (2006.01)**
[25] EN
[54] **BACK PRESSURE VALVE**
[54] **CLAPET DE NON-RETOUR**
[72] KELLNER, JUSTIN, US
[72] VOSS, JASON, US
[71] INNOVEX DOWNHOLE SOLUTIONS, INC., US
[22] 2020-12-07
[41] 2021-06-06
[30] US (62/944,431) 2019-12-06
[30] US (17/113,262) 2020-12-07

[21] **3,101,806**
[13] A1

[51] **Int.Cl. B60B 25/00 (2006.01) A01C 5/06 (2006.01) A01C 7/20 (2006.01)**
[25] FR
[54] **WHEEL SCRAPER FOR SEED PLANTER**
[54] **ROUE RACLEUSE POUR SEMOIR**
[72] PHELY, OLIVIER, FR
[71] OTICO, FR
[22] 2020-12-07
[41] 2021-06-09
[30] FR (1913998) 2019-12-09

[21] **3,101,807**
[13] A1

[51] **Int.Cl. C12M 1/22 (2006.01) B29C 39/02 (2006.01) C08L 67/04 (2006.01) C12N 1/00 (2006.01) C12N 3/00 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **POLYLACTIDE CELL CULTURE CONTAINERS AND USE IN CELL CULTURE WITHOUT SURFACE MODIFICATION**
[54] **CONTENEURS DE CULTURE CELLULAIRE DE POLYACTIDES ET UTILISATION DANS LA CULTURE CELLULAIRE SANS MODIFICATION DE LA SURFACE**
[72] PERLMAN, DANIEL, US
[71] DIVERSIFIED BIOTECH, INC., US
[22] 2020-12-07
[41] 2021-06-06
[30] US (16/705,920) 2019-12-06

[21] **3,101,814**
[13] A1

[51] **Int.Cl. F16B 1/00 (2006.01) E04H 12/00 (2006.01) F16B 2/24 (2006.01) F16B 12/32 (2006.01) F16B 13/04 (2006.01)**
[25] EN
[54] **RETROFIT ELECTRIC VEHICLE CHARGING SYSTEM WITH OPTIONAL ADVERTISING AND NETWORKING FUNCTIONALITY AND RETROFITTING METHODS FOR THE SAME**
[54] **BORNE DE RECHARGE DE VEHICULE ELECTRIQUE MODIFIABLE AYANT UNE PUBLICITE FACULTATIVE ET UNE FONCTIONNALITE DE RESEAUTAGE ET PROCEDES D'ADAPTATION POUR CELLE-CI**
[72] RAUMA, HARRI T., CA
[71] ALLPOLE, LLC, US
[22] 2020-12-07
[41] 2021-06-09
[30] US (62/945,573) 2019-12-09
[30] US (17/110,118) 2020-12-02

[21] **3,101,872**
[13] A1

[51] **Int.Cl. E04B 9/06 (2006.01)**
[25] EN
[54] **SUSPENDED CEILING SYSTEM INCORPORATING KEY AND KEYHOLE COMBINATIONS AND METHOD OF INSTALLING SAME**
[54] **SYSTEME DE PLAFOND SUSPENDU COMPREND UNE COMBINAISON DE CLE ET DE TROU DE SERRURE ET METHODE DE SON INSTALLATION**
[72] MARC-AURELE, ANDRE, CA
[71] MARC-AURELE, ANDRE, CA
[22] 2020-12-03
[41] 2021-06-10
[30] GB (1918148.6) 2019-12-10

[21] **3,101,874**
[13] A1

[51] **Int.Cl. E01H 5/06 (2006.01)**
[25] EN
[54] **SNOW PLOW AND MOUNT ASSEMBLY**
[54] **CHASSE-NEIGE ET PLAQUE DE FIXATION**
[72] BARKER, CHAD THOMAS, US
[72] BLOXDORF, DAVID N., US
[72] CURRAN, MATTHEW THOMA, US
[72] DEPIES, GERALD L., US
[72] HORN, CHRISTOPHER AARON, US
[72] IVERSON, BOB, US
[72] KAMINECKI, MATTHEW TERRAN, US
[72] MORRIS, LEONARD D., US
[71] DOUGLAS DYNAMICS, LLC, US
[22] 2020-12-04
[41] 2021-06-06
[30] US (16/705,632) 2019-12-06

[21] **3,101,877**
[13] A1

[51] **Int.Cl. B25J 15/04 (2006.01)**
[25] EN
[54] **TOOL CHANGER**
[54] **CHANGEUR D'OUTIL**
[72] GEARY, JAMES W., US
[71] DELAWARE CAPITAL FORMATION, INC., US
[22] 2020-12-04
[41] 2021-06-11
[30] US (16/710,425) 2019-12-11

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[21] **3,101,881**
[13] A1

[51] **Int.Cl. B25F 5/00 (2006.01)**
[25] EN
[54] **POWER TOOL ELEMENT INDICATING SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE D'INDICATION D'ELEMENT D'OUTIL ELECTRIQUE**
[72] RICKEY, TODD, AU
[71] TECHTRONIC CORDLESS GP, US
[22] 2020-12-04
[41] 2021-06-06
[30] HK (19133288.1) 2019-12-06

[21] **3,101,887**
[13] A1

[51] **Int.Cl. G09B 23/30 (2006.01) A61C 19/00 (2006.01)**
[25] EN
[54] **AUTOMATED DENTAL ARTICULATOR AND METHOD FOR TRAINING AND PRACTICING DENTAL PROCEDURES**
[54] **ARTICULATEUR DENTAIRE AUTOMATISE ET METHODE DE FORMATION ET DE PRATIQUE DES PROCEDURES DENTAIRES**
[72] MADDAHI, YASER, CA
[72] KALVANDI, MARYAM, CA
[72] MADDAHI, ALI, CA
[72] ASADI, ALIREZA A., CA
[71] TACTILE ROBOTICS LTD., CA
[22] 2020-12-08
[41] 2021-06-10
[30] US (62945940) 2019-12-10

[21] **3,101,897**
[13] A1

[51] **Int.Cl. F24C 15/12 (2006.01) A47B 5/00 (2006.01) A47B 46/00 (2006.01) A47J 37/07 (2006.01)**
[25] EN
[54] **CONVERTIBLE SHELF FOR A COOKING APPLIANCE**
[54] **ETAGERE CONVERTIBLE POUR UN APPAREIL DE CUISSON**
[72] JAMES, CHRIS, US
[71] DANSONS US, LLC, US
[22] 2020-12-08
[41] 2021-06-11
[30] US (16/710,477) 2019-12-11

[21] **3,101,981**
[13] A1

[51] **Int.Cl. A47C 17/52 (2006.01) A47C 17/17 (2006.01)**
[25] EN
[54] **CONVERTIBLE FURNITURE SYSTEM**
[54] **MEUBLE CONVERTIBLE**
[72] NIEMELA, CAL G., US
[72] NIEMELA, MARCUS, US
[72] LAHTI, TERRY L., US
[71] NB4 BRAND L.L.C., US
[22] 2020-12-08
[41] 2021-06-10
[30] US (62/946123) 2019-12-10

[21] **3,101,996**
[13] A1

[51] **Int.Cl. C03C 27/10 (2006.01) E04B 1/74 (2006.01) E04B 2/56 (2006.01)**
[25] EN
[54] **FIBERGLASS INSULATION PRODUCT**
[54] **PRODUIT ISOLANT EN FIBRE DE VERRE**
[72] GRANT, LARRY J., US
[72] HOUPPT, RONALD A., US
[72] BOONE, TENO, US
[72] NEWSOME, TONI ELWELL, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2020-12-08
[41] 2021-06-09
[30] US (62/945318) 2019-12-09

[21] **3,102,000**
[13] A1

[51] **Int.Cl. H02G 3/06 (2006.01) A62C 35/68 (2006.01)**
[25] EN
[54] **CONDUIT FITTING**
[54] **RACCORD DE CONDUIT**
[72] NAPOLI, JOSEPH R., US
[72] SHOCKENCY, CHARLES A., US
[71] GREASE FIRE BEGONE LLC, US
[22] 2020-12-09
[41] 2021-06-10
[30] US (16/709,067) 2019-12-10

[21] **3,102,002**
[13] A1

[51] **Int.Cl. C03C 27/10 (2006.01) E04B 1/74 (2006.01) E04B 2/56 (2006.01)**
[25] EN
[54] **FIBERGLASS INSULATION PRODUCT**
[54] **PRODUIT ISOLANT EN FIBRE DE VERRE**
[72] GRANT, LARRY J., US
[72] HOUPPT, RONALD A., US
[72] NEWSOME, TONI ELWELL, US
[72] BOONE, TENO, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2020-12-08
[41] 2021-06-09
[30] US (62/945323) 2019-12-09

[21] **3,102,005**
[13] A1

[51] **Int.Cl. G01V 11/00 (2006.01)**
[25] FR
[54] **METHOD FOR UPDATING A STRATIGRAPHIC MODEL OF A SEDIMENTARY BASIN BY MEANS OF MEASUREMENTS**
[54] **PROCEDE POUR METTRE A JOUR UN MODELE STRATIGRAPHIQUE D'UN BASSIN SEDIMENTAIRE EN FONCTION DE MESURES**
[72] MALINOUSKAYA, IRYNA, FR
[72] RASOLOFOSON, PATRICK, FR
[72] GERVAIS-COUPLET, VERONIQUE, FR
[72] GRANJEON, DIDIER, FR
[71] IFP ENERGIES NOUVELLES, FR
[22] 2020-12-09
[41] 2021-06-12
[30] FR (1914308) 2019-12-12

[21] **3,102,007**
[13] A1

[51] **Int.Cl. B65D 19/38 (2006.01) B29C 45/00 (2006.01)**
[25] EN
[54] **OVERMOLDED TWO-COMPONENT FRICTION ELEMENT IN A PLASTIC PALLET**
[54] **ELEMENT DE FRICTION A DEUX COMPOSANTS SURMOULE DANS UNE PALETTE DE PLASTIQUE**
[72] BANIK, JOACHIM, US
[71] ORBIS CORPORATION, US
[22] 2020-12-09
[41] 2021-06-12
[30] US (62/947,332) 2019-12-12
[30] US (17/113,530) 2020-12-07

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[21] **3,102,014**
[13] A1

[51] **Int.Cl. C25B 9/65 (2021.01) H01M 8/0245 (2016.01)**
[25] FR
[54] **METHOD FOR IMPROVED IMPLEMENTATION OF A COMPONENT CONSTITUTING AN HTE ELECTROLYZER OR SOFC FUEL CELL INTERCONNECTOR**
[54] **PROCEDE DE REALISATION AMELIORE D'UN COMPOSANT CONSTITUANT UN INTERCONNECTEUR D'ELECTROLYSEUR EHT OU DE PILE A COMBUSTIBLE SOFC**
[72] ORESIC, BRUNO, FR
[72] DI IORIO, STEPHANE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[22] 2020-12-09
[41] 2021-06-10
[30] FR (1914063) 2019-12-10

[21] **3,102,015**
[13] A1

[51] **Int.Cl. H04W 4/021 (2018.01) G06Q 30/02 (2012.01) G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LOCATION-BASED PRODUCT SOLUTIONS USING ARTIFICIAL INTELLIGENCE**
[54] **SYSTEME ET PROCEDE POUR DES SOLUTIONS DE PRODUITS AXEES SUR L'EMPLACEMENT EN UTILISANT L'INTELLIGENCE ARTIFICIELLE**
[72] KHAN, ASIF R., CA
[71] GROUNDLEVEL INSIGHTS INC., CA
[22] 2020-12-09
[41] 2021-06-10
[30] US (62/946,054) 2019-12-10

[21] **3,102,018**
[13] A1

[51] **Int.Cl. E21B 43/08 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **HYDRAULICALLY SET LINER TOP PACKER**
[54] **REGLAGE HYDRAULIQUE DE L'EMBALLEUR SUPERIEUR DU REVETEMENT**
[72] CORTEZ, STEVE, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[22] 2020-12-09
[41] 2021-06-12
[30] US (16/711717) 2019-12-12

[21] **3,102,020**
[13] A1

[51] **Int.Cl. B27B 27/10 (2006.01) B23D 47/04 (2006.01) B27B 27/06 (2006.01)**
[25] EN
[54] **MITER FENCE POSITIONER**
[54] **POSITIONNEUR DE GUIDE DE SCIE A ONGLET**
[72] OWENS, TIMOTHY, US
[71] OWENS, TIMOTHY, US
[22] 2020-12-09
[41] 2021-06-09
[30] US (62/945,307) 2019-12-09

[21] **3,102,073**
[13] A1

[51] **Int.Cl. E01B 37/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR RAILWAY EQUIPMENT CONTROL**
[54] **SYSTEMES ET PROCEDES POUR LE CONTROLE D'EQUIPEMENT FERROVIAIRE**
[72] HAMILTON, WILLIAM MICHAEL, US
[72] KOCI, RYAN JAY, US
[72] TOMAC, JUSTIN WYNNE, US
[71] MOW EQUIPMENT SOLUTIONS, INC., US
[22] 2020-12-09
[41] 2021-06-10
[30] US (62/946220) 2019-12-10

[21] **3,102,130**
[13] A1

[51] **Int.Cl. F24F 13/02 (2006.01) B08B 15/02 (2006.01) F04D 29/40 (2006.01) F24F 7/007 (2006.01)**
[25] EN
[54] **EXHAUST FAN UNIT OF A HEATING, VENTILATION, AND/OR AIR CONDITIONING (HVAC) SYSTEM**
[54] **UNITE DE VENTILATEUR D'EXTRACTION D'UN SYSTEME DE CHAUFFAGE, VENTILATION ET CLIMATISATION (CVC)**
[72] KOLE, ANUP T., IN
[72] PARAMESWARAN, SETHURAM, IN
[72] VARGAS, LUIS L., US
[72] KENNEDY, JUAN, US
[72] PATIL, PARMESHWAR G., IN
[71] AIR DISTRIBUTION TECHNOLOGIES IP, LLC, US
[22] 2020-12-09
[41] 2021-06-09
[30] US (62/945621) 2019-12-09
[30] US (16/836671) 2020-03-31

[21] **3,102,154**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BINDING UNIQUE TOKENS WITH TRANSACTION PARAMETERS TO AUTHORIZE TRANSACTIONS**
[54] **SYSTEMES ET PROCEDES POUR LIER DES JETONS UNIQUES A DES PARAMETRES DE TRANSACTION POUR AUTORISER DES TRANSACTIONS**
[72] GUPTA, VARUN, US
[72] FENICHEL, ALLISON, US
[72] DAVIS, JOHANNA, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2020-12-09
[41] 2021-06-09
[30] US (16/706947) 2019-12-09

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[21] **3,102,157**
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[51] **Int.Cl. A44C 21/00 (2006.01) B44B 5/00 (2006.01)**

[25] EN
[54] **COIN OR MEDAL**
[54] **PIECE OU MEDAILLE**
[72] WEGNER, ALEX, DE
[71] B.H. MAYER'S
KUNSTPRAGEANSTALT GMBH, DE
[22] 2020-12-09
[41] 2021-06-10
[30] DE (10 2019 133 806.9) 2019-12-10

[21] **3,102,181**
[13] A1

[51] **Int.Cl. A47K 10/04 (2006.01) A47K 10/12 (2006.01) E05B 1/00 (2006.01) F24C 15/00 (2006.01)**

[25] EN
[54] **TOWEL HOLDING HANDLE ASSEMBLY**
[54] **ENSEMBLE DE POIGNEE DE MAINTIEN DE SERVIETTE**
[72] IIGELKA, HERNAN C., CA
[72] BOOKEY, JOSHUA, CA
[71] ELK & BOOK INNOVATIONS INC., CA
[22] 2020-12-10
[41] 2021-06-12
[30] US (62947042) 2019-12-12

[21] **3,102,204**
[13] A1

[51] **Int.Cl. F24B 13/00 (2006.01) A47J 37/07 (2006.01) F23J 1/00 (2006.01) F24B 1/26 (2006.01)**

[25] EN
[54] **REMOVABLE ASH CLEAN OUT ASSEMBLY**
[54] **ENSEMBLE DETACHABLE POUR LE NETTOYAGE DES CENDRES**
[72] MEADOWS, GLEN, US
[71] DANSONS US, LLC, US
[22] 2020-12-10
[41] 2021-06-10
[30] US (16/709,456) 2019-12-10

[21] **3,102,207**
[13] A1

[51] **Int.Cl. F24B 5/00 (2006.01) A47J 37/07 (2006.01) F24B 1/22 (2006.01)**

[25] EN
[54] **INDIRECT AIR FLOW SYSTEM**
[54] **SYSTEME DE CIRCULATION D'AIR INDIRECTE**
[72] MEADOWS, GLEN, US
[72] SIMON, PAUL, US
[72] GIEBEL, MICHAEL, US
[71] DANSONS US, LLC, US
[22] 2020-12-10
[41] 2021-06-10
[30] US (16/709,543) 2019-12-10

[21] **3,102,208**
[13] A1

[51] **Int.Cl. A61H 99/00 (2006.01) A61B 5/024 (2006.01)**

[25] EN
[54] **TECHNOLOGIES FOR AUDIO-VISUAL ENTRAINMENT WITH BREATHING CUES FOR MANAGING HEART RATE VARIABILITY**
[54] **TECHNOLOGIES D'ENTRAINEMENT AUDIOVISUEL AVEC DES INDICES DE RESPIRATION POUR GERER LA VARIABILITE DANS LA FREQUENCE CARDIAQUE**
[72] SIEVER, DAVID, CA
[71] MIND ALIVE INC., CA
[22] 2020-12-10
[41] 2021-06-11
[30] US (62/946,716) 2019-12-11

[21] **3,102,301**
[13] A1

[51] **Int.Cl. B60S 9/02 (2006.01) B60S 9/10 (2006.01)**

[25] EN
[54] **OPERATING MACHINE WITH IMPROVED STABILISERS**
[54] **APPAREIL DE MANOEUVRE A STABILISATEURS AMELIORES**
[72] IOTTI, MARCO, IT
[71] MANITOU ITALIA S.R.L., IT
[22] 2020-12-10
[41] 2021-06-12
[30] IT (102019000023835) 2019-12-12

[21] **3,102,306**
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) H04L 9/00 (2006.01) H04L 12/22 (2006.01)**

[25] EN
[54] **MITIGATION OF EXTERNAL EXPOSURE OF ENERGY DELIVERY SYSTEMS**
[54] **ATTENUATION DE L'EXPOSITION EXTERNE DE SYSTEME DE DISTRIBUTION D'ENERGIE**
[72] MYLREA, MICHAEL E., US
[72] GOURISETTI, SRI NIKHIL GUPTA, US
[71] BATTELLE MEMORIAL INSTITUTE, US
[22] 2020-12-10
[41] 2021-06-10
[30] US (62/946,269) 2019-12-10

[21] **3,102,327**
[13] A1

[51] **Int.Cl. F16L 21/06 (2006.01) F16J 15/06 (2006.01) F16L 23/18 (2006.01)**

[25] EN
[54] **IMPROVED COMPRESSIBLE SEAL FOR PIPE CLAMP**
[54] **JOINT COMPRESSIBLE AMELIORE POUR UN COLLIER DE SERRAGE**
[72] CHIPROOT, AVI, IL
[71] KRAUSZ INDUSTRIES LTD., IL
[22] 2020-12-10
[41] 2021-06-11
[30] US (16/710,028) 2019-12-11

[21] **3,102,385**
[13] A1

[51] **Int.Cl. B65D 5/66 (2006.01) B65D 5/16 (2006.01) B65D 5/54 (2006.01)**

[25] EN
[54] **SHIPPERS WITH A CONSTANT DEPTH**
[54] **CONTENEURS D'EXPEDITION A PROFONDEUR CONSTANTE**
[72] SIMPKINS, KEVIN M., US
[72] JAMES, JEFFREY S., US
[71] WESTROCK SHARED SERVICES, LLC, US
[22] 2020-12-11
[41] 2021-06-12
[30] US (16/712,477) 2019-12-12

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[21] **3,102,414**
[13] A1

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 90/11 (2016.01) A61B 17/17 (2006.01)**
[25] EN
[54] **COMPUTER-ASSISTED SHOULDER SURGERY AND METHOD**
[54] **CHIRURGIE DE L'ÉPAULE ASSISTÉE PAR ORDINATEUR ET MÉTHODE**
[72] MADIÉRE-VIGNEUX, JOSEPH, CA
[72] DUVAL, KARINE, CA
[72] GOYETTE, ANDREANNE, CA
[72] DEVANNE LANGLAIS, PABLO, CA
[72] MILLER, KEVIN, CA
[72] MUELLER, MICHAEL, CA
[71] ORTHOSOFT ULC, CA
[22] 2020-12-11
[41] 2021-06-12
[30] US (63/027,653) 2020-05-20
[30] US (62/947,295) 2019-12-12

[21] **3,102,487**
[13] A1

[51] **Int.Cl. B32B 5/18 (2006.01) B32B 7/04 (2019.01) B32B 13/12 (2006.01) B32B 37/26 (2006.01) E04B 1/86 (2006.01) E04C 2/288 (2006.01)**
[25] EN
[54] **WALLBOARD WITH FOAM MATERIAL LAYER**
[54] **PANNEAU MURAL AVEC UNE COUCHE DE MATÉRIAU EN MOUSSE**
[72] BUSCHE, BRADLEY J., US
[72] BAILEY, JOSEPH J., US
[72] RANDALL, BRIAN G., US
[72] BLADES, MICHAEL N., US
[71] NATIONAL GYPSUM PROPERTIES, LLC, US
[22] 2020-12-11
[41] 2021-06-12
[30] US (62/947,087) 2019-12-12

[21] **3,102,495**
[13] A1

[51] **Int.Cl. E03F 7/00 (2006.01) G01M 99/00 (2011.01) E02D 29/12 (2006.01) E03F 5/02 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PERFORMING AUTOMATED INSPECTION OF A SEWER LINE USING MACHINE LEARNING**
[54] **SYSTÈME ET MÉTHODE D'EXÉCUTION D'UNE INSPECTION AUTOMATISÉE D'UNE CONDUITE D'ÉGOUT AU MOYEN DE L'APPRENTISSAGE AUTOMATIQUE**
[72] MICHAUD, SEBASTIEN, CA
[72] BROCHU, FRANCIS, CA
[71] CAN-EXPLORE INC., CA
[22] 2020-12-11
[41] 2021-06-11
[30] US (62/946694) 2019-12-11

[21] **3,102,501**
[13] A1

[51] **Int.Cl. F16L 37/08 (2006.01)**
[25] EN
[54] **CONNECTING ASSEMBLY FOR CONNECTING HOSE SEGMENTS TOGETHER, AND MAPLE TREE SAP HARVESTING SYSTEM PROVIDED WITH THE SAME**
[54] **ENSEMBLE DE RACCORD POUR RACCORDER DES SEGMENTS DE BOYAU ENSEMBLE ET SYSTÈME DE RECOLTE DE LA SÈVE D'ÉRABLE COMPORTANT CET ENSEMBLE**
[72] LAPIERRE, DONALD, CA
[71] LES ÉQUIPEMENTS LAPIERRE INC., CA
[22] 2020-12-11
[41] 2021-06-11
[30] US (62/946.744) 2019-12-11

[21] **3,102,524**
[13] A1

[51] **Int.Cl. E01C 5/00 (2006.01)**
[25] EN
[54] **PAVING STONE EDGE JOINT FILL BLOCKER**
[54] **UN BLOQUEUR DE REMPLISSAGE DE JOINT LONGITUDINAL DE PAVÉ EN PIERRE**
[72] ROBIDOUX, FREDERIC, CA
[71] ROBIDOUX, FREDERIC, CA
[22] 2020-12-11
[41] 2021-06-11
[30] US (62946637) 2019-12-11

[21] **3,102,526**
[13] A1

[51] **Int.Cl. B62D 55/08 (2006.01)**
[25] EN
[54] **SHOE TRIMMING TOOL**
[54] **OUTIL DE GARNITURE DE CHAUSSURE**
[72] GROSS, MATTHEW L., US
[72] HUTSICK, JAMES M., US
[72] WIRKUS, JOSEPH J., US
[72] SEVERSON, JOSH, US
[72] PEDRETTI, ETHAN, US
[72] POPP, JAMES, US
[71] JOY GLOBAL SURFACE MINING INC, US
[22] 2020-12-11
[41] 2021-06-12
[30] US (62/947,109) 2019-12-12

[21] **3,102,537**
[13] A1

[51] **Int.Cl. C02F 11/04 (2006.01) C02F 11/00 (2006.01) C02F 11/12 (2019.01)**
[25] EN
[54] **METHOD OF TREATMENT OF PARTIALLY HYDROLYZED BIOSOLIDS**
[54] **MÉTHODE DE TRAITEMENT DE BIOSOLIDES PARTIELLEMENT HYDROLYSÉS**
[72] BESWICK, MICHAEL, CA
[72] SINGH, AJAY, CA
[71] LYSTEK INTERNATIONAL CORP., CA
[22] 2020-12-11
[41] 2021-06-12
[30] US (62/947,184) 2019-12-12

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[21] **3,102,542**
[13] A1

[51] **Int.Cl. B02C 4/28 (2006.01) B02C 4/08 (2006.01)**
[25] EN
[54] **GRINDING ROLL IMPROVEMENTS**
[54] **AMELIORATIONS DE CYLINDRE DE BROYAGE**
[72] ZEBROSKI, LUCAS, US
[72] OLSON, ROY, US
[72] SANDNES, ROBERT, US
[72] PEARSON, ALEX, US
[72] TRACY, JOSHUA, US
[71] PEARSON INC., US
[22] 2020-12-11
[41] 2021-06-11
[30] US (16/710,492) 2019-12-11

[21] **3,102,552**
[13] A1

[51] **Int.Cl. B60K 35/00 (2006.01) B60W 40/13 (2012.01)**
[25] EN
[54] **TRAILED VEHICLES, MOBILE DEVICES, AND WEIGHT SENSING SYSTEM USER INTERFACES COMPRISED THEREIN**
[54] **VEHICULES REMORQUES, DISPOSITIFS MOBILES ET INTERFACES UTILISATEUR DE SYSTEME DE DETECTION DE MASSE COMPRISES**
[72] BULLOCK, MARK, US
[72] BROCK, JON, US
[71] KEYSTONE RV COMPANY, US
[22] 2020-12-11
[41] 2021-06-12
[30] US (62/947275) 2019-12-12
[30] US (16/849367) 2020-04-15

[21] **3,102,564**
[13] A1

[51] **Int.Cl. F28G 15/02 (2006.01) F24F 13/00 (2006.01) F25B 47/00 (2006.01) F28G 1/08 (2006.01) F28G 13/00 (2006.01)**
[25] EN
[54] **CLEANING DEVICE FOR COMPACT HEATING AND/OR COOLING UNITS**
[54] **DISPOSITIF DE NETTOYAGE POUR DES UNITES DE CHAUFFAGE ET/OU DE REFROIDISSEMENT COMPACTES**
[72] TOWBERMAN, JEFFREY CLAYTON, US
[71] NET BUILDING SERVICES, LLC, US
[22] 2020-12-14
[41] 2021-06-12
[30] US (62/947041) 2019-12-12
[30] US (17/121460) 2020-12-14

[21] **3,102,651**
[13] A1

[51] **Int.Cl. C10G 1/04 (2006.01)**
[25] EN
[54] **SMALL-SCALE BITUMEN EXTRACTION PROCESSES AND PLANTS**
[54] **PROCEDES ET INSTALLATIONS D'EXTRACTION DE BITUME A PETITE ECHELLE**
[72] OZUM, BAKI, CA
[71] APEX ENGINEERING INC., CA
[22] 2020-12-14
[41] 2021-06-12
[30] CA (3064756) 2019-12-12

[21] **3,102,665**
[13] A1

[51] **Int.Cl. E04B 2/82 (2006.01) E04B 2/74 (2006.01)**
[25] EN
[54] **PLENUM SUPPORT FOR DEMOUNTABLE WALL SYSTEM**
[54] **SUPPORT DE PLENUM POUR UN SYSTEME DE MUR DEMONTABLE**
[72] MCDONALD, CONOR, US
[72] MASSEY, CURTIS, US
[72] PHILLIPS, JEFFREY JAMES, US
[71] OLDCASTLE BUILDINGENVELOPE, INC., US
[22] 2020-12-14
[41] 2021-06-12
[30] US (62/947,349) 2019-12-12

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[13] A1

[51] **Int.Cl. F24F 1/46 (2011.01)**
[25] EN
[54] **COMPRESSOR WALL**
[54] **PAROI DE COMPRESSEUR**
[72] THERIAULT, JONATHAN, CA
[72] VIEIRA, LUIS, CA
[71] DEHUMIDIFIED AIR SOLUTIONS, INC., CA
[85] 2020-03-11
[86] 2019-12-10 (PCT/IB2019/060635)
[87] (3075153)

[21] **3,101,296**
[13] A1

[51] **Int.Cl. G01N 3/36 (2006.01)**
[25] EN
[54] **TRUE TRIAXIAL TESTING SYSTEM FOR DISTURBANCE EXPERIMENT WITH BROADBAND AND LOW AMPLITUDE OF HIGH PRESSURE HARD ROCK**
[54] **SYSTEME DE MISE A L'ESSAI TRIAXIAL REEL POUR UNE EXPERIENCE DE PERTURBATION RELATIVE A LA LARGE BANDE ET LA FAIBLE AMPLITUDE D'UNE ROCHE DURE HAUTE PRESSION**
[72] FENG, XIATING, CN
[72] TIAN, MIAN, CN
[72] ZHANG, FENGPENG, CN
[72] TIAN, JUN, CN
[72] YANG, CHENGXIANG, CN
[72] PENG, JIANYU, CN
[72] ZHAO, YUEMAO, CN
[72] JIANG, JIANQING, CN
[72] GAO, JIKAI, CN
[71] NORTHEASTERN UNIVERSITY, CN
[85] 2021-03-03
[86] 2019-12-20 (PCT/CN2019/126887)
[87] (3101296)
[30] CN (201911257770.3) 2019-12-10

[21] **3,104,921**
[13] A1

[51] **Int.Cl. C02F 9/08 (2006.01) B01D 9/00 (2006.01) C02F 1/04 (2006.01) C02F 1/40 (2006.01) C02F 1/52 (2006.01) C02F 9/00 (2006.01) E21B 43/34 (2006.01)**
[25] EN
[54] **PROCESS FOR REMOVING SILICA FROM HIGH PH BRINES PRODUCED BY EVAPORATION IN THE COURSE OF TREATING PRODUCED WATER**
[54] **PROCEDE D'ELIMINATION DE SILICE DE SAUMURES A PH ELEVE PRODUITE PAR L'EVAPORATION PENDANT LE TRAITEMENT DE L'EAU PRODUITE**
[72] NICHOLSON, MARK, US
[71] VEOLIA WATER TECHNOLOGIES, INC., US
[85] 2021-01-04
[86] 2020-12-04 (PCT/US2020/063352)
[87] (3104921)
[30] US (62/944,451) 2019-12-06

[21] **3,109,897**
[13] A1

[51] **Int.Cl. A61K 39/13 (2006.01) A61P 31/14 (2006.01) A61K 39/215 (2006.01)**
[25] EN
[54] **VACCINATION AGAINST CORONAVIRUS WITH POLIOMYELITIS VACCINE**
[54] **VACCINATION CONTRE LE CORONAVIRUS A L'AIDE D'UN VACCIN SABIN**
[72] XIE, QIYI, US
[71] XIE, QIYI, US
[85] 2021-02-22
[86] 2021-01-20 (PCT/US2021/014253)
[87] (3109897)
[30] US (63/013,561) 2020-04-22
[30] US (17/098,449) 2020-11-15
[30] US (63/010,678) 2020-04-15
[30] US (63/008,664) 2020-04-11

[21] **3,109,958**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 36/48 (2006.01) A61K 36/899 (2006.01)**
[25] EN
[54] **MODIFIED PLANT MESSENGER PACKS AND USES THEREOF**
[54] **PAQUETS DE MESSAGERS VEGETAUX MODIFIES ET UTILISATIONS ASSOCIEES**
[72] VAN ROOIJEN, MARIA HELENA CHRISTINE, US
[72] TAM, HOK HEI, US
[72] AVENDANO AMADO, MAIER STEVE, US
[72] MARTIN, BARRY ANDREW, US
[72] MARTINEZ, IGNACIO, US
[72] KOWALSKI, PIOTR STANISLAW, US
[72] NUKOLOVA, NATALIYA VLADIMIROVNA, US
[72] CASEY, JOHN PATRICK, JR., US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2021-02-17
[86] 2019-08-24 (PCT/US2019/048046)
[87] (WO2020/041783)
[30] US (62/722,576) 2018-08-24

[21] **3,112,145**
[13] A1

[25] EN
[54] **WORK IMPLEMENT TILT CONTROL SYSTEM AND METHOD FOR TRACKED VEHICLE**
[54] **WORK IMPLEMENT TILT CONTROL SYSTEM AND METHOD FOR TRACKED VEHICLE**
[72] HEBERT, PATRICK, CA
[72] STEBEN, ERIC, CA
[72] FILION, SIMON, CA
[72] TREMBLAY, ERIC, CA
[71] PRINOTH LTD, CA
[85] 2021-03-11
[86] 2020-10-29 (PCT/CA2020/051463)
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[30] US (62/927,962) 2019-10-30

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[21] **3,114,971**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01) A47J 31/10 (2006.01) B65D 75/58 (2006.01)**

[25] EN

[54] **SINGLE DOSE UNIT FOR BREWED COFFEE AND PROCESS OF PRODUCTION AND INFUSION OF THE UNIT**

[54] **UNITE MONODOSE POUR CAFE FILTRE ET PROCEDE DE PRODUCTION ET D'INFUSION DE CETTE UNITE**

[72] FERREIRA DE SOUZA, JAILTON, BR

[71] CAFE RANCHEIRO AGRO INDUSTRIAL LTDA, BR

[85] 2021-03-31

[86] 2019-09-17 (PCT/BR2019/050405)

[87] (WO2020/073107)

[30] BR (BR 10 2018 070867 8) 2018-10-10

[21] **3,116,888**
[13] A1

[51] **Int.Cl. B65D 41/08 (2006.01)**

[25] EN

[54] **SAFETY-CAP BOTTLE ASSEMBLY**

[54] **ASSEMBLAGE DE BOUTEILLE AVEC CAPUCHON DE SECURITE**

[72] ABOABDO, IBRAHIEM H., US

[71] CHUBBY GORILLA, INC., US

[85] 2021-04-29

[86] 2020-12-04 (PCT/US2020/063252)

[87] (3116888)

[30] US (62/945,016) 2019-12-06

[21] **3,118,767**
[13] A1

[25] EN

[54] **HOSE AND RIGID PIPE CONNECTING SYSTEM USED IN HIGH PRESSURE SYSTEM**

[54] **BOYAU ET SYSTEME DE RACCORD DE TUYAU RIGIDE UTILISES DANS UN SYSTEME HAUTE PRESSION**

[72] SONG, XIAOWEI, CN

[72] PENG, XIAOYONG, CN

[72] YAN, SHIJIE, CN

[71] SHANGHAI ZHONGYUAN FUEL RAIL MANUFACTURE CO., LTD, CN

[85] 2021-05-14

[86] 2019-12-13 (PCT/CN2019/124962)

[87] (3118767)

[30] CN (201911268166.0) 2019-12-11

[21] **3,119,396**
[13] A1

[25] EN

[54] **SHAREABLE AND NESTED TRANSACTIONS OF HASH CHAINS**

[54]

[72] SCOTT, GLENN CARTER, US

[72] GABRIEL, MICHAEL RICHARD, US

[71] INTUIT INC., US

[85] 2021-05-21

[86] 2019-12-11 (PCT/US2020/032935)

[87] (3119396)

[30] US (16/710,639) 2019-12-11

[21] **3,119,416**
[13] A1

[25] EN

[54] **COMBINING STATISTICAL METHODS WITH A KNOWLEDGE GRAPH**

[54]

[72] COULOMBE, GREGORY KENNETH, US

[72] MEIKE, ROGER C., US

[72] OSMON, CYNTHIA J., US

[72] KUMAR, SRICHARAN KALLUR PALLI, US

[72] MALYNIN, PAVLO, US

[71] INTUIT INC., US

[85] 2021-05-21

[86] 2020-06-08 (PCT/US2020/036595)

[87] (3119416)

[30] US (16/693,593) 2019-11-25

[21] **3,119,418**
[13] A1

[25] EN

[54] **DEHUMIDIFIER**

[54]

[72] XING, ZHIGANG, CN

[72] LI, WEIMING, CN

[71] GD MIDEA AIR-CONDITIONING EQUIPMENT CO., LTD., CN

[85] 2021-05-21

[86] 2020-04-13 (PCT/CN2020/084374)

[87] (3119418)

[30] CN (201911219186.9) 2019-11-29

[30] CN (201922132726.1) 2019-11-29

[21] **3,119,634**
[13] A1

[51] **Int.Cl. C07K 14/395 (2006.01) C12N 1/22 (2006.01) C12P 7/10 (2006.01)**

[25] EN

[54] **MODULATION OF FORMATE OXIDATION BY RECOMBINANT YEAST HOST CELL DURING FERMENTATION**

[54] **MODULATION DE L'OXYDATION DE FORMIATE PAR UNE CELLULE HOTE DE LEVURE RECOMBINANTE PENDANT LA FERMENTATION**

[72] BARRETT, TRISHA, US

[72] SKINNER, RYAN, US

[72] ARGYROS, AARON, US

[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU

[85] 2021-05-11

[86] 2019-11-13 (PCT/IB2019/059760)

[87] (WO2020/100069)

[30] US (62/760,444) 2018-11-13

[21] **3,119,639**
[13] A1

[51] **Int.Cl. C12P 7/06 (2006.01) C12P 7/10 (2006.01) C12P 7/14 (2006.01) C12P 7/54 (2006.01) C12P 19/02 (2006.01)**

[25] EN

[54] **SYNERGISTIC BACTERIAL AND YEAST COMBINATIONS**

[54] **COMBINAISONS SYNERGIQUES DE BACTERIES ET DE LEVURES**

[72] BROADBENT, JEFFERY R., US

[72] ARGYROS, AARON, US

[72] HENNINGSSEN, BROOKS, US

[72] FIRMINO, FERNANDA CRISTINA, US

[72] PHROMMAO, EKKARAT, US

[72] STEELE, JAMES L., US

[71] LALLEMAND HUNGARY LIQUIDITY MANAGEMENT LLC, HU

[85] 2021-05-11

[86] 2019-11-13 (PCT/IB2019/059765)

[87] (WO2020/100072)

[30] US (62/760,472) 2018-11-13

PCT Applications Entering the National Phase

[21] **3,119,647**
[13] A1

[51] **Int.Cl. C21D 8/02 (2006.01) B21B 15/00 (2006.01) C21D 8/04 (2006.01) C21D 9/46 (2006.01) C21D 9/50 (2006.01)**

[25] EN

[54] **A METHOD OF MANUFACTURING MARTENSITIC STEEL AND A MARTENSITIC STEEL THEREOF**

[54] **PROCEDE DE FABRICATION D'ACIER MARTENSITIQUE ET ACIER MARTENSITIQUE AINSI OBTENU**

[72] GHASSEMI-ARMAKI, HASSAN, US
[72] PATEL, VIKAS KANUBHAI, US
[72] GUSTAFSON, TIMOTHY, US
[71] ARCELORMITTAL, LU
[85] 2021-05-11
[86] 2019-11-15 (PCT/IB2019/059833)
[87] (WO2020/109918)
[30] IB (PCT/IB2018/059513) 2018-11-30

[21] **3,119,655**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/02 (2006.01) A61P 37/06 (2006.01) C07K 14/435 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **ANTIBODIES TO HUMAN COMPLEMENT FACTOR C2B AND METHODS OF USE**

[54] **ANTICORPS CONTRE LE FACTEUR C2B DU COMPLEMENT HUMAIN ET LEURS PROCEDES D'UTILISATION**

[72] BLANCHETOT, CHRISTOPHE, BE
[72] DE HAARD, HANS, NL
[71] ARGENX BVBA, BE
[85] 2021-05-11
[86] 2019-12-13 (PCT/IB2019/060802)
[87] (WO2020/121282)
[30] US (62/779,102) 2018-12-13

[21] **3,119,656**
[13] A1

[51] **Int.Cl. C07D 417/04 (2006.01) A61K 31/4985 (2006.01) A61P 11/00 (2006.01) C07D 419/14 (2006.01)**

[25] EN

[54] **MACROCYCLIC COMPOUNDS AND THEIR USE IN THE TREATMENT OF DISEASE**

[54] **COMPOSES MACROCYCLIQUES ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES**

[72] AZIMIOARA, MIHAI, US
[72] BURSULAYA, BADRY, US
[72] JIANG, SONGCHUN, US
[72] MATHISON, CASEY JACOB NELSON, US
[72] NIKULIN, VICTOR IVANOVICH, US
[72] NGUYEN, TRUC NGOC, US
[72] OKRAM, BARUN, US
[72] PATEL, SEJAL, US
[72] PHILLIPS, DEAN PAUL, US
[72] WHITEHEAD, LEWIS, US
[72] WU, BAOGEN, US
[72] YAN, SHANSHAN, US
[72] ZHU, XUEFENG, US
[71] NOVARTIS AG, CH
[85] 2021-05-11
[86] 2019-12-18 (PCT/IB2019/061054)
[87] (WO2020/128925)
[30] US (62/783,270) 2018-12-21

[21] **3,119,867**
[13] A1

[51] **Int.Cl. H04L 9/00 (2006.01) H04L 9/14 (2006.01) H04L 9/32 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **TRUSTED HARDWARE NETWORK INTERCONNECTION DEVICE AND RESOURCES, AND INTEGRATED MULTI-LEVEL OR CROSS-DOMAIN NETWORK SECURITY MANAGEMENT APPLIANCE, PLATFORM AND SYSTEM**

[54] **DISPOSITIF ET RESSOURCES MATERIELS DE CONFIANCE POUR INTERCONNEXION DE RESEAU, ET APPAREIL, PLATE-FORME ET SYSTEME INTEGRES DE GESTION DE SECURITE DE RESEAU MULTINIVEAU OU INTER-DOMAINES**

[72] COUILLARD, BRUNO, CA
[72] RITCHIE, BRADLEY CLARE, CA
[72] GOODMAN, JAMES ROSS, CA
[72] Fiset, JEAN-PIERRE, CA
[71] CRYPTO4A TECHNOLOGIES INC., CA
[85] 2021-05-13
[86] 2019-11-15 (PCT/CA2019/051638)
[87] (WO2020/107098)
[30] US (62/772,901) 2018-11-29
[30] US (62/772,953) 2018-11-29

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[21] **3,119,871**
[13] A1

[51] **Int.Cl. C07D 229/02 (2006.01)**
[25] FR
[54] **NOVEL PATHWAY FOR THE SYNTHESIS OF DIAZIRINES, THAT MAY OR MAY NOT BE ENRICHED IN NITROGEN-15**
[54] **NOUVELLE VOIE DE SYNTHÈSE DE DIAZIRINES, ENRICHIES OU NON EN AZOTE-15**
[72] REBOUL, VINCENT, FR
[72] FRANCK, XAVIER, FR
[72] GLACHET, THOMAS, FR
[72] MARZAG, HAMID, FR
[71] UNIVERSITE DE ROUEN-NORMANDIE, FR
[71] UNIVERSITE DE CAEN NORMANDIE, FR
[71] INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE ROUEN (INSA), FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[71] ECOLE NATIONALE SUPERIEURE D'INGENIEURS DE CAEN, FR
[85] 2021-05-13
[86] 2019-11-14 (PCT/EP2019/081393)
[87] (WO2020/099596)
[30] FR (1860507) 2018-11-14

[21] **3,119,872**
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01) A61F 2/16 (2006.01) G02C 7/04 (2006.01) G02C 7/06 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING AN OPHTHALMIC LENS ADAPTED FOR CORRECTING AN ABNORMAL REFRACTION OF AN EYE OF A WEARER**
[54] **PROCEDE DE DETERMINATION D'UNE LENTILLE OPHTHALMIQUE ADAPTEE POUR CORRIGER UNE REFRACTION ANORMALE D'UN □IL D'UN PORTEUR**
[72] DROBE, BJORN, SG
[72] GUILLOT, MATTHIEU, FR
[72] FERMIGIER, BRUNO, FR
[72] PAILLE, DAMIEN, FR
[71] ESSILOR INTERNATIONAL, FR
[85] 2021-05-13
[86] 2019-11-14 (PCT/EP2019/081304)
[87] (WO2020/099549)
[30] EP (18315041.6) 2018-11-15

[21] **3,119,875**
[13] A1

[51] **Int.Cl. A01H 1/06 (2006.01) A01H 6/46 (2018.01)**
[25] EN
[54] **GRAFT-MEDIATED HYBRIDISATION OF MONOCOTYLEDONOUS PLANTS**
[54] **HYBRIDATION MEDIEE PAR GREFFAGE DE PLANTES MONOCOTYLEDONES**
[72] REEVES, GREGORY, GB
[72] HIBBERD, JULIAN, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2021-05-13
[86] 2019-11-14 (PCT/GB2019/053231)
[87] (WO2020/099878)
[30] GB (1818577.7) 2018-11-14

[21] **3,119,880**
[13] A1

[51] **Int.Cl. A01G 2/35 (2018.01)**
[25] EN
[54] **PERENNIAL MONOCOTYLEDON GRAFTING**
[54] **GREFFE DE MONOCOTYLEDONE VIVACE**
[72] REEVES, GREGORY, GB
[72] HIBBERD, JULIAN, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2021-05-13
[86] 2019-11-14 (PCT/GB2019/053232)
[87] (WO2020/099879)
[30] GB (1818578.5) 2018-11-14

[21] **3,119,882**
[13] A1

[51] **Int.Cl. C07D 471/10 (2006.01) A61K 31/438 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **HETEROCYCLIC SPIRO-COMPOUNDS AS AM2 RECEPTOR INHIBITORS**
[54] **COMPOSES SPIRO HETEROCYCLIQUES CONSTITUANT DES INHIBITEURS DU RECEPTEUR DE L'AM2**
[72] RICHARDS, GARETH, GB
[72] SKERRY, TIMOTHY M., GB
[72] HARRITY, JOSEPHY P.A., GB
[72] ZIRIMWABAGABO, JEAN-OLIVIER, GB
[72] TOZER, MATTHEW J., GB
[72] GIBSON, KARL RICHARD, GB
[72] PORTER, RODERICK ALAN, GB
[72] GLOSSOP, PAUL ALAN, GB
[71] THE UNIVERSITY OF SHEFFIELD, GB
[85] 2021-05-13
[86] 2019-11-15 (PCT/GB2019/053236)
[87] (WO2020/099882)
[30] GB (1818651.0) 2018-11-15

[21] **3,119,889**
[13] A1

[51] **Int.Cl. B64C 31/036 (2006.01) B64D 17/02 (2006.01) B64C 31/028 (2006.01)**
[25] EN
[54] **AN AERIAL VEHICLE**
[54] **VEHICULE AERIEN**
[72] COLTMAN, ALEXANDER, GB
[72] JOHNSON, WILL, GB
[72] HOBSON, OLIVER, GB
[72] THOMAS, ADRIAN, GB
[72] TVEIT, JORGEN, GB
[71] ANIMAL DYNAMICS LIMITED, GB
[85] 2021-05-13
[86] 2019-11-22 (PCT/GB2019/053307)
[87] (WO2020/104816)
[30] GB (1819006.6) 2018-11-22

PCT Applications Entering the National Phase

[21] **3,119,896**
[13] A1

[51] **Int.Cl. B25H 3/00 (2006.01) B25J 5/02 (2006.01) B65G 1/02 (2006.01)**

[25] EN

[54] **MANUFACTURING SYSTEM WITH AN INTERCONNECTED STORAGE STRUCTURE AND MANUFACTURING CELLS SHARING A COMMON ROBOTIC FLEET**

[54] **SYSTEME DE FABRICATION COMPRENANT UNE STRUCTURE DE STOCKAGE INTERCONNECTEE ET DES CELLULES DE FABRICATION PARTAGEANT UNE FLOTTE ROBOTIQUE COMMUNE**

[72] GRAVELLE, SCOTT, CA
[71] ATTABOTICS INC, CA
[85] 2021-05-13
[86] 2020-06-11 (PCT/IB2020/055479)
[87] (WO2020/250166)
[30] US (62/860,024) 2019-06-11

[21] **3,119,904**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) B60P 1/38 (2006.01)**

[25] EN

[54] **SPACE-EFFICIENT ORDER FULFILLMENT SYSTEM FOR WORKFLOW BETWEEN SERVICE AREAS**

[54] **SYSTEME D'EXECUTION DE COMMANDE EFFICACE EN TERMES D'ESPACE POUR UN FLUX DE TRAVAUX ENTRE DES ZONES DE SERVICE**

[72] GRAVELLE, SCOTT, CA
[72] LANGEN, DOUGLAS, CA
[72] DHALIWAL, SUNNY, CA
[71] ATTABOTICS INC, CA
[85] 2021-05-13
[86] 2020-05-08 (PCT/IB2020/054380)
[87] (WO2020/229973)
[30] US (62/846,295) 2019-05-10

[21] **3,119,906**
[13] A1

[51] **Int.Cl. B65G 49/04 (2006.01)**

[25] EN

[54] **PLANT FOR THE TREATMENT OF BODYWORK**

[54] **INSTALLATION POUR LE TRAITEMENT DE CARROSSERIES**

[72] IGLIO, VALERIO, IT
[72] FRUSTACI, SALVATORE, IT
[71] GEICO SPA, IT
[85] 2021-05-13
[86] 2020-02-03 (PCT/IB2020/050826)
[87] (WO2020/161590)
[30] IT (102019000001557) 2019-02-04

[21] **3,119,910**
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 7/06 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **METHODS FOR IMPROVING THE EFFICACY OF A SURVIVIN THERAPEUTIC IN THE TREATMENT OF TUMORS**

[54] **METHODES D'AMELIORATION DE L'EFFICACITE D'UN AGENT THERAPEUTIQUE A BASE DE SURVIVINE DANS LE TRAITEMENT DE TUMEURS**

[72] STANFORD, MARIANNE, CA
[72] FISET, STEPHAN, CA
[72] MACDONALD, LISA, CA
[72] WEIR, GENEVIEVE, CA
[72] RAJAGOPALAN, RAJKANNAN, CA
[71] IMMUNOVACCINE TECHNOLOGIES INC., CA
[85] 2021-05-13
[86] 2019-11-18 (PCT/IB2019/059899)
[87] (WO2020/104923)
[30] US (62/769,347) 2018-11-19

[21] **3,119,913**
[13] A1

[51] **Int.Cl. H04L 1/00 (2006.01) H04L 29/06 (2006.01)**

[25] EN

[54] **METHOD OF ENCODING AND DECODING DATA TRANSFERRED VIA A COMMUNICATIONS LINK**

[54] **PROCEDE DE CODAGE ET DE DECODAGE DE DONNEES TRANSFEREES PAR L'INTERMEDIAIRE D'UNE LIAISON DE COMMUNICATION**

[72] BABICH, KEVIN J., US
[71] SKYWAVE NETWORKS LLC, US
[85] 2021-05-13
[86] 2018-11-15 (PCT/US2018/061266)
[87] (WO2019/099658)
[30] US (62/587,744) 2017-11-17

[21] **3,119,919**
[13] A1

[51] **Int.Cl. G16H 20/30 (2018.01) G16H 20/40 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR REDUCING STRESS**

[54] **SYSTEME ET PROCEDE POUR REDUIRE LE STRESS**

[72] MAYO, VICKI, US
[72] SERIN, AMY, US
[72] VICE, JACK, US
[71] VMAS SOLUTIONS INC., US
[85] 2021-05-13
[86] 2018-11-29 (PCT/US2018/063008)
[87] (WO2020/101718)
[30] US (16/191,242) 2018-11-14

Demandes PCT entrant en phase nationale

[21] **3,119,922**
[13] A1

[51] **Int.Cl. A61M 5/34 (2006.01) A61M 5/00 (2006.01) A61M 5/20 (2006.01) A61M 5/24 (2006.01)**

[25] EN

[54] **PEN AND PEN NEEDLE ADAPTER WITH FEATURE TO IMPROVE ACCESS TO PACKAGED NEEDLE ASSEMBLY**

[54] **STYLO ET ADAPTEUR D'AIGUILLE DE STYLO AYANT UNE CARACTERISTIQUE POUR AMELIORER L'ACCES A UN ENSEMBLE AIGUILLE EMBALLE**

[72] WEST, ROBERT, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2021-05-13

[86] 2018-11-29 (PCT/US2018/063047)

[87] (WO2020/112113)

[21] **3,119,924**
[13] A1

[51] **Int.Cl. F16B 7/18 (2006.01) A45B 9/00 (2006.01) A45B 19/08 (2006.01) A45B 25/00 (2006.01) B25G 1/04 (2006.01) B25G 3/30 (2006.01) E03C 1/302 (2006.01) E04H 12/18 (2006.01) E04H 15/48 (2006.01) F16S 3/00 (2006.01)**

[25] EN

[54] **COMPOSITE FERRULES FOR EXTENSION POLES**

[54] **FERRULES COMPOSITES POUR PIQUETS D'EXTENSION**

[72] WILLIS, CHRISTOPHER RYAN, US

[71] JAMESON, LLC, US

[85] 2021-05-13

[86] 2019-08-20 (PCT/US2019/047187)

[87] (WO2020/101782)

[30] US (62/768,338) 2018-11-16

[21] **3,119,926**
[13] A1

[51] **Int.Cl. G08B 15/00 (2006.01) G08B 15/02 (2006.01)**

[25] EN

[54] **NON-LETHAL DEFENSIVE FLUID COMPOSITION AND PRESSURIZED DELIVERY SYSTEM**

[54] **COMPOSITION DE LIQUIDE DEFENSIF NON LETAL ET SYSTEME DE DISTRIBUTION SOUS PRESSION**

[72] RANKIN, DAVID DANIEL, SR., US

[71] RANKIN, DAVID DANIEL, SR., US

[85] 2021-05-13

[86] 2019-10-16 (PCT/US2019/056449)

[87] (WO2020/101833)

[30] US (62/760,612) 2018-11-13

[30] US (16/509,830) 2019-07-12

[21] **3,119,927**
[13] A1

[51] **Int.Cl. B65D 63/10 (2006.01) F16G 11/00 (2006.01)**

[25] EN

[54] **SECURING DEVICE**

[54] **DISPOSITIF DE FIXATION**

[72] EVEREST, JONATHAN F., US

[72] SMITH, CAMERON, US

[72] KOMER, BENJAMIN, US

[71] SIMPLE STRAP LLC, US

[85] 2021-05-13

[86] 2019-10-11 (PCT/US2019/055793)

[87] (WO2020/101827)

[30] US (62/768,881) 2018-11-17

[30] US (16/544,514) 2019-08-19

[21] **3,119,931**
[13] A1

[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/44 (2006.01) G01N 21/62 (2006.01) G01N 21/64 (2006.01) G02B 13/22 (2006.01) G02B 26/00 (2006.01)**

[25] EN

[54] **COMPACT HIGH DENSITY ROTARY OPTICAL FILTER WHEEL ASSEMBLIES**

[54] **ENSEMBLES ROUE PORTE-FILTRES OPTIQUE ROTATIFS DE HAUTE DENSITE COMPACTS**

[72] RAGATZ, ANDREW GEORGE, US

[72] LESIAK, CHRISTOPHER, US

[72] NICHOLLS, IRMA, US

[72] FIEDLER, MARK, US

[72] BOUZID, AHMED, US

[71] LI-COR, INC., US

[85] 2021-05-13

[86] 2019-11-14 (PCT/US2019/061435)

[87] (WO2020/102504)

[30] US (62/767,385) 2018-11-14

[30] US (16/682,383) 2019-11-13

[21] **3,119,933**
[13] A1

[51] **Int.Cl. H02J 3/00 (2006.01) H02J 9/06 (2006.01)**

[25] EN

[54] **EXTENDED BRAKING WITH VARIABLE FREQUENCY DRIVE WITHOUT INPUT POWER**

[54] **FREINAGE ETENDU A ENTRAINEMENT A FREQUENCE VARIABLE SANS ENERGIE D'ENTREE**

[72] RASTOGI, MUKUL, US

[72] MARTINEZ, RICARDO, US

[71] SIEMENS AKTIENGESELLSCHAFT, DE

[85] 2021-05-13

[86] 2019-11-14 (PCT/US2019/061440)

[87] (WO2020/102508)

[30] US (62/767,760) 2018-11-15

PCT Applications Entering the National Phase

[21] **3,119,938**
[13] A1

[51] **Int.Cl. A61B 5/02 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR REDUCING THE RISK OF NEONATAL NEUROLOGICAL INJURY**
[54] **PROCEDE ET APPAREIL POUR REDUIRE LE RISQUE DE LESION NEUROLOGIQUE NEONATALE**
[72] EVANS, MARK, US
[71] EVANS, MARK, US
[85] 2021-05-13
[86] 2019-11-14 (PCT/US2019/061465)
[87] (WO2020/102524)
[30] US (62/767,147) 2018-11-14
[30] US (62/791,337) 2019-01-11

[21] **3,119,946**
[13] A1

[51] **Int.Cl. H04L 12/58 (2006.01)**
[25] EN
[54] **AUTOMATIC BOT CREATION BASED ON SCRIPTS**
[54] **CREATION DE BOT AUTOMATIQUE BASEE SUR DES SCRIPTS**
[72] CHITTARI, RAVIKIRAN, US
[72] PRIYADARSHAN, ESWAR, US
[72] LOCASCIO, ROBERT, US
[72] ALTSCHULER, JONATHAN, US
[72] RAMAKRISHNAIAH, SURESH, US
[72] WIN, HTET, US
[72] HE, CHUQING, US
[72] DUNN, MATTHEW, US
[71] LIVEPERSON, INC., US
[85] 2021-05-13
[86] 2019-11-14 (PCT/US2019/061527)
[87] (WO2020/102571)
[30] US (62/768,699) 2018-11-16

[21] **3,119,947**
[13] A1

[51] **Int.Cl. H02J 15/00 (2006.01) F02C 6/16 (2006.01) H02J 3/00 (2006.01) H02J 3/28 (2006.01) H02J 3/38 (2006.01)**
[25] EN
[54] **COMPRESSED AIR ENERGY STORAGE AND POWER GENERATION APPARATUS AND COMPRESSED AIR ENERGY STORAGE AND POWER GENERATION METHOD**
[54] **DISPOSITIF ET PROCEDE DE GENERATION D'ENERGIE A STOCKAGE PNEUMATIQUE**
[72] KUBO, YOHEI, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2021-05-13
[86] 2019-11-20 (PCT/JP2019/045339)
[87] (WO2020/121756)
[30] JP (2018-234826) 2018-12-14

[21] **3,119,957**
[13] A1

[51] **Int.Cl. C07D 413/06 (2006.01) A61K 31/422 (2006.01) A61K 31/454 (2006.01) A61P 31/04 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **NOVEL IMIDAZOLE DERIVATIVE**
[54] **NOUVEAU DERIVE D'IMIDAZOLE**
[72] TAKASHIMA, HAJIME, JP
[72] MATSUDA, YOHEI, JP
[72] OGATA, YUYA, JP
[72] SASAMOTO, NAOKI, JP
[72] TSURUTA, RISA, JP
[72] USHIYAMA, FUMIHITO, JP
[72] UEKI, KAORI, JP
[72] TANAKA, NOZOMI, JP
[71] TAISHO PHARMACEUTICAL CO., LTD., JP
[85] 2021-05-13
[86] 2019-11-20 (PCT/JP2019/045362)
[87] (WO2020/105660)
[30] JP (2018-218448) 2018-11-21

[21] **3,120,046**
[13] A1

[51] **Int.Cl. B60R 13/01 (2006.01) B60P 1/28 (2006.01) B62D 25/20 (2006.01)**
[25] EN
[54] **TRUCK BED**
[54] **PLATEFORME DE CAMION**
[72] LAGERSKIOLD, JENS, SE
[72] PERSSON, HENRIK, SE
[71] METSO OUTOTEC SWEDEN AB, SE
[85] 2021-05-14
[86] 2019-12-11 (PCT/EP2019/084707)
[87] (WO2020/120602)
[30] SE (1851564-3) 2018-12-12

[21] **3,120,060**
[13] A1

[51] **Int.Cl. B61L 23/04 (2006.01) B61L 1/06 (2006.01) B61L 27/00 (2006.01)**
[25] EN
[54] **VERTICAL RAIL MEASUREMENT DEVICE**
[54] **DISPOSITIF DE MESURE DE RAIL VERTICAL**
[72] BARTEK, PETER M., US
[72] DASH, COREY, US
[71] PROTRAN TECHNOLOGY, LLC, US
[85] 2021-05-14
[86] 2019-11-06 (PCT/US2019/059997)
[87] (WO2020/101964)
[30] US (62/767,728) 2018-11-15
[30] US (16/508,008) 2019-07-10

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[21] **3,120,061**
[13] A1

[51] **Int.Cl. C05G 5/30 (2020.01) C05G 3/20 (2020.01) C05G 3/40 (2020.01) C05G 3/60 (2020.01) C05G 5/12 (2020.01) C05F 11/08 (2006.01) C05G 3/00 (2020.01)**

[25] EN

[54] **DELIVERY OF BIOACTIVE MOLECULES IN COATINGS OR SURFACE LAYERS OF ORGANICALLY ENHANCED INORGANIC FERTILIZERS**

[54] **ADMINISTRATION DE MOLECULES BIOACTIVES DANS DES ENROBAGES OU DES COUCHES DE SURFACE D'ENGRAIS INORGANIQUES ORGANIQUEMENT AMELIORES**

[72] BURNHAM, JEFFREY C., US
[72] SIEGEL, SANFORD A., US
[71] ANUVIA PLANT NUTRIENTS HOLDINGS INC., US

[85] 2021-05-14
[86] 2019-11-13 (PCT/US2019/061276)
[87] (WO2020/102420)
[30] US (62/767,172) 2018-11-14

[21] **3,120,062**
[13] A1

[51] **Int.Cl. E03C 1/04 (2006.01)**

[25] EN

[54] **TOP-MOUNT FAUCET ROBINET A MONTAGE PAR LE DESSUS**

[72] BENSTEAD, EVAN, US
[71] SPECTRUM BRANDS, INC., US

[85] 2021-05-14
[86] 2019-11-14 (PCT/US2019/061498)
[87] (WO2020/102550)
[30] US (62/767,909) 2018-11-15
[30] US (16/672,033) 2019-11-01

[21] **3,120,066**
[13] A1

[51] **Int.Cl. G01N 33/74 (2006.01)**

[25] EN

[54] **DIAGNOSIS OF DIABETES BY DETECTING AGGREGATED AMYLIN IN ERYTHROCYTES**

[54] **DIAGNOSTIC DU DIABETE PAR LA DETECTION D'AMYLIN AGREGEE DANS LES ERYTHROCYTES**

[72] DESPA, FLORIN, US
[71] UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, US

[85] 2021-05-14
[86] 2019-11-14 (PCT/US2019/061518)
[87] (WO2020/102566)
[30] US (62/767,131) 2018-11-14
[30] US (62/883,992) 2019-08-07

[21] **3,120,079**
[13] A1

[51] **Int.Cl. G02B 27/02 (2006.01) A63F 13/53 (2014.01) G02B 30/00 (2020.01) G02B 30/10 (2020.01) G02B 27/01 (2006.01) G02B 27/18 (2006.01)**

[25] EN

[54] **REFLECTIVE LENS HEADSET CONFIGURATION DETECTION**

[54] **DETECTION DE CONFIGURATION DE CASQUE A LENTILLE REFLECHISSANTE**

[72] KOZLOWSKI, MIKE, US
[71] MIRA LABS, INC., US

[85] 2021-05-14
[86] 2019-11-18 (PCT/US2019/062071)
[87] (WO2020/102818)
[30] US (62/768,837) 2018-11-16

[21] **3,120,081**
[13] A1

[51] **Int.Cl. C04B 28/18 (2006.01) C04B 28/00 (2006.01) C04B 28/04 (2006.01)**

[25] EN

[54] **CEMENTITIOUS MATERIALS AND METHODS OF MAKING AND USING THEREOF**

[54] **MATERIAUX CIMENTERAIRES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] CLARENS, ANDRES F., US
[72] PLATTENBERGER, DAN A., US
[71] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US

[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061809)
[87] (WO2020/102724)
[30] US (62/767,586) 2018-11-15

[21] **3,120,084**
[13] A1

[51] **Int.Cl. E04B 1/348 (2006.01)**

[25] EN

[54] **CORE FOR BUILDING PARTIE CENTRALE DE BATIMENT**

[72] PITT, WILLIAM, US
[72] RAHMAN, Z. A., US
[71] AUTOTELIC HOLDING LLC, US

[85] 2021-05-14
[86] 2019-11-21 (PCT/US2019/062618)
[87] (WO2020/106960)
[30] US (62/770,361) 2018-11-21

[21] **3,120,085**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**

[25] EN

[54] **METHOD FOR CULTURING CORD BLOOD-DERIVED NATURAL KILLER CELLS USING TRANSFORMED T-CELLS**

[54] **PROCEDE DE CULTURE DE CELLULES TUEUSES NATURELLES DERIVEES DE SANG DE CORDON OMBILICAL AU MOYEN DE LYMPHOCYTES T TRANSFORMES**

[72] KIM, YOU-SUN, KR
[72] KIM, EUN JI, KR
[72] PARK, GYEONG MIN, KR
[72] YANG, BITNA, KR
[72] MIN, BOKYUNG, KR
[72] CHO, SUNGYOO, KR
[72] HWANG, YU KYEONG, KR
[71] GREEN CROSS LAB CELL CORPORATION, KR

[85] 2021-05-14
[86] 2019-11-13 (PCT/KR2019/015469)
[87] (WO2020/101361)
[30] KR (10-2018-0139722) 2018-11-14
[30] KR (10-2019-0145068) 2019-11-13

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[21] **3,120,086**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C09K 15/32 (2006.01) C12N 15/10 (2006.01) G01N 1/28 (2006.01) A01N 1/00 (2006.01)**

[25] EN

[54] **RNA PRESERVATION SOLUTION AND METHODS OF MANUFACTURE AND USE**

[54] **SOLUTION DE CONSERVATION D'ARN ET PROCEDES DE PREPARATION ET D'UTILISATION ASSOCIES**

[72] GAETA, FEDERICO, US

[71] SPECTRUM SOLUTIONS L.L.C., US

[85] 2021-05-14

[86] 2019-11-14 (PCT/US2019/061525)

[87] (WO2020/102570)

[30] US (62/767,296) 2018-11-14

[21] **3,120,087**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61K 38/30 (2006.01) C07K 14/65 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **VECTORS COMPRISING A NUCLEIC ACID ENCODING LYSOSOMAL ENZYMES FUSED TO A LYSOSOMAL TARGETING SEQUENCE**

[54] **VECTEURS COMPRENANT UN ACIDE NUCLEIQUE CODANT POUR DES ENZYMES LYSOSOMALES FUSIONNEES A UNE SEQUENCE DE CIBLAGE LYSOSOMALE**

[72] O'CALLAGHAN, MICHAEL W., US

[72] FRANCOIS, ACHILLE, US

[71] ASKLEPIOS BIOPHARMACEUTICAL, INC., US

[85] 2021-05-14

[86] 2019-11-15 (PCT/US2019/061701)

[87] (WO2020/102667)

[30] US (62/768,645) 2018-11-16

[30] US (62/769,697) 2018-11-20

[30] US (62/778,706) 2018-12-12

[21] **3,120,091**
[13] A1

[51] **Int.Cl. A61C 13/00 (2006.01) A61C 13/08 (2006.01)**

[25] EN

[54] **COLOUR MATCHING FOR DENTAL RESTORATIONS**

[54] **APPARIEMENT DE COULEURS POUR RESTAURATIONS DENTAIREES**

[72] FRANKE, FREDERIKE, DE

[72] BRANDES, CHRISTOPH, DE

[72] BAURER, MICHAEL, DE

[72] VOSS, BJORN, DE

[71] DENTSPLY SIRONA INC., US

[85] 2021-05-14

[86] 2019-11-25 (PCT/US2019/062906)

[87] (WO2020/112584)

[30] EP (18209279.1) 2018-11-29

[21] **3,120,093**
[13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) C12N 15/88 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR COMPARTMENT-SPECIFIC CARGO DELIVERY**

[54] **COMPOSITIONS ET PROCEDES DE LIVRAISON DE CARGAISON A COMPARTIMENT SPECIFIQUE**

[72] VON MALTZAHN, GEOFFREY A., US

[72] MILWID, JOHN MILES, US

[72] RUBENS, JACOB ROSENBLUM, US

[72] MEE, MICHAEL TRAVIS, US

[72] GORDON, NEAL FRANCIS, US

[72] SHAH, JAGESH VIJAYKUMAR, US

[72] TRUDEAU, KYLE MARVIN, US

[72] HARTLEY, BRIGHAM JAY, US

[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US

[85] 2021-05-14

[86] 2019-11-14 (PCT/US2019/061535)

[87] (WO2020/102578)

[30] US (62/767,394) 2018-11-14

[21] **3,120,094**
[13] A1

[51] **Int.Cl. C09K 8/12 (2006.01) E21B 21/00 (2006.01)**

[25] EN

[54] **WELLBORE DRILLING COMPOSITIONS**

[54] **COMPOSITIONS DE FORAGE POUR Puits DE FORAGE**

[72] RAMIREZ, MARIO A., US

[72] BISHOP, MARSHALL D., US

[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US

[85] 2021-05-14

[86] 2019-12-12 (PCT/US2019/066017)

[87] (WO2020/123830)

[30] US (62/778,363) 2018-12-12

[21] **3,120,096**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/20 (2006.01) A61K 39/395 (2006.01) A61P 35/04 (2006.01) C07K 14/54 (2006.01) C07K 14/55 (2006.01) C07K 14/78 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **CD25 ANTIBODIES**

[54] **ANTICORPS ANTI-CD25**

[72] LI, BING, US

[72] GREVING, MATTHEW P., US

[72] GIP, PHUNG TU, US

[72] LUNDBERG, MATT, US

[72] SRINIVASAN, MOHAN, US

[71] RUBRYC THERAPEUTICS, INC., US

[85] 2021-05-14

[86] 2019-11-14 (PCT/US2019/061552)

[87] (WO2020/102591)

[30] US (62/767,405) 2018-11-14

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[21] **3,120,097**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) B33Y 80/00 (2015.01)**
[25] EN
[54] **FABRIC MATERIAL FOR MEDICAL DEVICES**
[54] **MATERIAU TEXTILE POUR DISPOSITIFS MEDICAUX**
[72] ALKHATIB, YOUSEF F., US
[72] REIMER, JAY, US
[72] ASHWORTH, PAUL E., US
[72] HIGH, KEITH T., US
[72] KALETA, RICHARD, US
[72] FINN, RYAN, US
[71] ABBOTT LABORATORIES, US
[85] 2021-05-14
[86] 2019-12-13 (PCT/US2019/066237)
[87] (WO2020/123945)
[30] US (62/779,176) 2018-12-13
[30] US (62/925,379) 2019-10-24
[30] US (62/925,391) 2019-10-24
[30] US (62/925,412) 2019-10-24
[30] US (62/925,402) 2019-10-24

[21] **3,120,102**
[13] A1

[51] **Int.Cl. C07K 14/715 (2006.01) A61K 38/20 (2006.01) C12N 15/26 (2006.01)**
[25] EN
[54] **ENGINEERED CD25 POLYPEPTIDES AND USES THEREOF**
[54] **POLYPEPTIDES CD25 GENETIQUEMENT MODIFIES ET LEURS UTILISATIONS**
[72] GREVING, MATTHEW P., US
[72] GIP, PHUNG TU, US
[72] SRINIVASAN, MOHAN, US
[72] MORIN, ANDREW, US
[72] HAUSER, KEVIN EDUARD, US
[72] WILLIS, JORDAN R., US
[72] MOORE, CODY A., US
[72] BARRETT, CHRISTIAN, US
[72] TAGUCHI, ALEX T., US
[72] ESTELLES, ANGELES, US
[71] RUBRYC THERAPEUTICS, INC., US
[85] 2021-05-14
[86] 2019-11-14 (PCT/US2019/061567)
[87] (WO2020/102603)
[30] US (62/767,431) 2018-11-14
[30] US (62/902,334) 2019-09-18

[21] **3,120,104**
[13] A1

[51] **Int.Cl. C10M 159/24 (2006.01) C07C 303/00 (2006.01) C07C 309/62 (2006.01)**
[25] EN
[54] **ALKYLBENZENE SULFONATE DETERGENTS**
[54] **DETERGENTS A BASE DE SULFONATE D'ALKYLBENZENE**
[72] DELBRIDGE, EWAN E., US
[72] BURRINGTON, JAMES D., US
[72] MOSIER, PATRICK E., US
[72] PUCKACE, JAMES S., US
[71] THE LUBRIZOL CORPORATION, US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061708)
[87] (WO2020/102672)
[30] US (62/768,219) 2018-11-16

[21] **3,120,105**
[13] A1

[51] **Int.Cl. C12N 15/864 (2006.01) A61K 35/76 (2015.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C07K 14/65 (2006.01) C12N 7/01 (2006.01) C12N 15/12 (2006.01) C12N 15/16 (2006.01) C12N 15/35 (2006.01) C12N 15/56 (2006.01) C12N 15/62 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **THERAPEUTIC ADENO-ASSOCIATED VIRUS FOR TREATING POMPE DISEASE**
[54] **VIRUS ADENO-ASSOCIE THERAPEUTIQUE POUR LE TRAITEMENT DE LA MALADIE DE POMPE**
[72] O'CALLAGHAN, MICHAEL W., US
[72] FRANCOIS, ACHILLE, US
[71] ASKLEPIOS BIOPHARMACEUTICAL, INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061653)
[87] (WO2020/102645)
[30] US (62/768,449) 2018-11-16
[30] US (62/769,702) 2018-11-20

[21] **3,120,106**
[13] A1

[51] **Int.Cl. B65D 71/36 (2006.01)**
[25] EN
[54] **NESTED BEVERAGE CARTON LAYOUT**
[54] **AGENCEMENT DE CARTON DE BOISSONS EMBOITEES**
[72] MERZEAU, JULIEN D., FR
[72] PERRIN, DOMINIQUE, FR
[72] TEILLOL, NICOLAS, FR
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2021-05-14
[86] 2019-12-09 (PCT/US2019/065150)
[87] (WO2020/123340)
[30] US (62/779,901) 2018-12-14

[21] **3,120,107**
[13] A1

[51] **Int.Cl. C07H 21/00 (2006.01) C12Q 1/68 (2018.01) C40B 40/06 (2006.01) C40B 50/00 (2006.01) C40B 50/14 (2006.01)**
[25] EN
[54] **A METHOD FOR GENERATING RANDOM OLIGONUCLEOTIDES AND DETERMINING THEIR SEQUENCE**
[54] **PROCEDE DE GENERATION D'OLIGONUCLEOTIDES ALEATOIRES ET DE DETERMINATION DE LEUR SEQUENCE**
[72] SAWAYA, STERLING, US
[71] GENEINFOSEC, INC., US
[85] 2021-05-14
[86] 2019-11-30 (PCT/US2019/063890)
[87] (WO2020/113195)
[30] US (62/773,671) 2018-11-30

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[21] **3,120,109**
[13] A1

[51] **Int.Cl. B65D 81/03 (2006.01) B31D 5/00 (2017.01) B65B 55/20 (2006.01) B65D 81/05 (2006.01)**

[25] EN

[54] **PACKAGING PRODUCT AND METHODS OF MAKING AND USING FOR BOX-LINING**

[54] **PRODUIT D'EMBALLAGE ET PROCEDES DE FABRICATION ET D'UTILISATION D'UNE GARNITURE DE BOITE**

[72] THOMAS, LAWRENCE B., US
[72] WARHOLIC, MICHAEL DANE, US
[71] RANPAK CORP., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061757)
[87] (WO2020/102692)
[30] US (62/768,173) 2018-11-16

[21] **3,120,112**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01) G06Q 30/02 (2012.01) G06Q 50/02 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD TO MANAGE DEPOSITS AND PAYMENTS FOR VARIABLE WEIGHTED AND VARIABLE PRICED AGRICULTURAL PRODUCTS**

[54] **SYSTEME ET PROCEDE DE GESTION DE DEPOTS ET DE PAIEMENTS POUR PRODUITS AGRICOLES PONDERES VARIABLES ET A PRIX VARIABLES**

[72] MAIOCCO, JANELLE JOY, US
[72] MA, JEFF A., US
[72] SAN NICOLAS, SAMUEL JAMES, US
[72] SPIEGEL, ELI, US
[71] BARN2DOOR, INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061784)
[87] (WO2020/102711)
[30] US (62/768,001) 2018-11-15

[21] **3,120,113**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 90/00 (2016.01)**

[25] EN

[54] **TISSUE RETRIEVAL SYSTEM WITH RETENTION FEATURES**

[54] **SYSTEME DE PRELEVEMENT DE TISSU DOTE D'ELEMENTS DE RETENUE**

[72] TAYLOR, SCOTT V., US
[72] TRAN, QUOC P., US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061788)
[87] (WO2020/102714)
[30] US (62/768,254) 2018-11-16

[21] **3,120,115**
[13] A1

[51] **Int.Cl. C07C 253/30 (2006.01) A01N 37/34 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARATION OF 2,6-DICHLOROBENZONITRILE**

[54] **PROCEDE DE PREPARATION DE 2,6-DICHLOROBENZONITRILE**

[72] KATARIA, KAMAL, IN
[72] PRASAD, VIC, US
[72] LARSON, CHRISTOPHER LYNN, US
[72] GIBB, CAMERON SEATH, US
[72] DESAI, KIRIT, IN
[72] GUPTA, ASHWANI, IN
[72] SISODE, GIRISH, IN
[71] ARYSTA LIFESCIENCE INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061792)
[87] (WO2020/102716)
[30] US (62/768,407) 2018-11-16

[21] **3,120,118**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **METHODS OF DOSING ENGINEERED T CELLS FOR THE TREATMENT OF B CELL MALIGNANCIES**

[54] **METHODES DE POSOLOGIE POUR CELLULES T MODIFIEES POUR LE TRAITEMENT DE CANCERS A CELLULES B**

[72] TREDE, NIKOLAUS SEBASTIAN, US
[72] ALBERTSON, TINA, US
[72] CHRISTIN, BRIAN, US
[72] YOST, RACHEL K., US
[72] KANG, MICHELLE, US
[72] TEOH, JEFFREY, US
[72] LARSON, RYAN P., US
[71] JUNO THERAPEUTICS, INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061876)
[87] (WO2020/102770)
[30] US (62/768,844) 2018-11-16
[30] US (62/914,303) 2019-10-11

[21] **3,120,119**
[13] A1

[51] **Int.Cl. B60N 2/30 (2006.01) B60N 2/90 (2018.01) B60N 2/12 (2006.01)**

[25] EN

[54] **HANDLE INTERLOCK UTILIZING SEAT BACK ROTATION**

[54] **VERROUILLAGE A POIGNEE UTILISANT UNE ROTATION DE DOSSIER DE SIEGE**

[72] PLOCH, STEVEN, US
[71] MAGNA SEATING INC., CA
[85] 2021-05-14
[86] 2019-11-18 (PCT/US2019/061922)
[87] (WO2020/102792)
[30] US (62/768,132) 2018-11-16

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[21] **3,120,121**
[13] A1

[51] **Int.Cl. E04B 1/348 (2006.01) E04H 1/12 (2006.01)**
[25] EN
[54] **BASE FOR USE WITH A TEMPORARY HABITABLE ENCLOSURE OR NON-ENCLOSED AREA**
[54] **BASE DESTINEE A ETRE UTILISEE AVEC UNE ENCEINTE HABITABLE TEMPORAIRE OU UNE ZONE NON ENFERMEE**
[72] PITT, WILLIAM, US
[72] RAHMAN, Z. A., US
[71] META - BASE HOLDINGS LLP, US
[85] 2021-05-14
[86] 2019-11-19 (PCT/US2019/062227)
[87] (WO2020/106727)
[30] US (62/769,138) 2018-11-19

[21] **3,120,126**
[13] A1

[51] **Int.Cl. B67D 1/04 (2006.01)**
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[54] **REPLACEABLE BEVERAGE OUTLET AND CONDUIT FOR DISPENSER**
[54] **SORTIE DE BOISSON REMPLACABLE ET CONDUIT POUR DISTRIBUTEUR**
[72] RIDER, MICHAEL, US
[72] DERUNTZ, OTTO, US
[72] SWEEZEY, ANDREW S., US
[71] CORAVIN, INC., US
[85] 2021-05-14
[86] 2019-11-20 (PCT/US2019/062406)
[87] (WO2020/106834)
[30] US (62/770,320) 2018-11-21

[21] **3,120,129**
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) A61K 35/76 (2015.01) A61K 39/12 (2006.01) C12M 3/00 (2006.01) C12N 7/01 (2006.01) C12N 7/02 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **MANUFACTURE OF VIRUS**
[54] **FABRICATION DE VIRUS**
[72] WRIGHT, PAUL ANDREW, US
[72] WACK, KATY, US
[72] ZHANG, MINGRUI, US
[72] VASSEUR, JACKIE, US
[72] HOLLEY, SUSAN NICOLE, US
[72] RENSHAW, AUGUST ALLEN, US
[72] ZHU, GUANGYU, US
[72] VENDEL, MICHELLE CATHERINE, US
[71] WESTERN ONCOLYTICS LTD., US
[85] 2021-05-14
[86] 2019-11-21 (PCT/US2019/062643)
[87] (WO2020/106975)
[30] US (62/770,577) 2018-11-21

[21] **3,120,133**
[13] A1

[51] **Int.Cl. A47K 10/36 (2006.01) A47K 10/22 (2006.01)**
[25] EN
[54] **A SHEET MATERIAL DISPENSER ASSEMBLY FOR SELECTIVELY DISPENSING SHEET MATERIAL FROM A PLURALITY OF SUPPLIES OF ROLLED SHEET MATERIAL**
[54] **ENSEMBLE DISTRIBUTEUR DE MATERIAU EN FEUILLE POUR DISTRIBUER SELECTIVEMENT UN MATERIAU EN FEUILLE A PARTIR D'UNE PLURALITE DE SOURCES DE MATERIAU EN FEUILLE LAMINEE**
[72] OSBORNE, CHARLES AGNEW, JR., US
[71] OSBORNE, CHARLES AGNEW, JR., US
[85] 2021-05-14
[86] 2019-11-22 (PCT/US2019/062795)
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[30] US (62/772,199) 2018-11-28

[21] **3,120,135**
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/142 (2006.01)**
[25] EN
[54] **CASSETTE FOR A FLOW CONTROL APPARATUS**
[54] **CASSETTE POUR APPAREIL DE COMMANDE DE FLUX**
[72] BIERMANN, WAYNE, US
[72] TRELFOED, LESTER PAUL, US
[71] KPR U.S., LLC, US
[85] 2021-05-14
[86] 2019-11-26 (PCT/US2019/063386)
[87] (WO2020/112862)
[30] US (62/771,463) 2018-11-26

[21] **3,120,138**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **IMAGE-BASED IRRIGATION RECOMMENDATIONS**
[54] **RECOMMANDATIONS D'IRRIGATION BASEES SUR DES IMAGES**
[72] DEVECIGIL, DEMIR, US
[72] KOVALSKYY, VALERIY, US
[71] THE CLIMATE CORPORATION, US
[85] 2021-05-14
[86] 2019-12-10 (PCT/US2019/065348)
[87] (WO2020/123428)
[30] US (62/777,736) 2018-12-10
[30] US (16/708,239) 2019-12-09

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[13] A1

[51] **Int.Cl. H01L 51/50 (2006.01) H01L 33/06 (2010.01) H01L 27/32 (2006.01)**
[25] EN
[54] **LIGHT EMITTING FLUID DECANTING DEVICE AND METHOD OF LIGHT-TREATING A FLUID**
[54] **DISPOSITIF ELECTROLUMINESCENT DE DECANTATION DE FLUIDE ET PROCEDE DE TRAITEMENT D'UN FLUIDE PAR LA LUMIERE**
[72] LEVIN, DEAN, US
[72] DAVIS, SANDRA, US
[71] LEVIN, DEAN, US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061682)
[87] (WO2020/102656)
[30] US (62/768,043) 2018-11-15

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[21] **3,120,140**
[13] A1

[51] **Int.Cl. H04L 12/865 (2013.01) H04L 12/803 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LATENCY CRITICAL QUALITY OF SERVICE USING CONTINUOUS BANDWIDTH CONTROL**
[54]
[72] MAS, SAMUEL PHILIPPE, ES
[72] YU, JIE, CA
[72] WOLFSBERGER, PHILIP, CA
[72] TRUDEL-LAPIERRE, VINCENT, CA
[72] GROGAN, PATRICK, CA
[72] RICHARDSON, FRANCOIS-DOMINIQUE, CA
[72] WU, JUN, CA
[71] DRW TECHNOLOGIES LLC, US
[85] 2021-03-30
[86] 2020-12-02 (PCT/US2020/062958)
[87] (3120140)
[30] US (62/942,299) 2019-12-02

[21] **3,120,145**
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GENERATING AUGMENTED REALITY ENVIRONMENTS FROM TWO-DIMENSIONAL DRAWINGS**
[54] **SYSTEMES ET PROCEDES DE GENERATION DES ENVIRONNEMENTS DE REALITE AUGMENTEE A PARTIR DE DESSINS BIDIMENSIONNELS**
[72] NUNEZ, JUAN CARLOS, ES
[72] RIVAS, FRANCISCO, ES
[72] MARTIN, ALBERTO, ES
[71] GEOMNI, INC., US
[85] 2021-05-14
[86] 2019-11-18 (PCT/US2019/061984)
[87] (WO2020/102803)
[30] US (62/768,291) 2018-11-16

[21] **3,120,147**
[13] A1

[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/06 (2006.01) G01J 3/12 (2006.01) G01J 3/32 (2006.01) G01N 21/00 (2006.01) G02B 26/00 (2006.01)**
[25] EN
[54] **FILTER DEVICE FOR AN OPTICAL MODULE FOR A LAB-ON-A-CHIP ANALYSIS DEVICE, OPTICAL MODULE FOR A LAB-ON-A-CHIP ANALYSIS DEVICE AND METHOD FOR OPERATING AN OPTICAL MODULE FOR A LAB-ON-A-CHIP ANALYSIS DEVICE**
[54] **DISPOSITIF DE FILTRAGE POUR UN MODULE OPTIQUE POUR UN APPAREIL D'ANALYSE DE LABORATOIRE DE MICROELECTRONIQUE, MODULE OPTIQUE POUR UN APPAREIL D'ANALYSE DE LABORATOIRE DE MICROELEC TRONIQUE ET PROCEDE DE FONCTIONNEMENT D'UN MODULE OPTIQUE POUR UN APPAREIL D'ANALYSE DE LABORATOIRE DE MICROELECTRONIQUE**
[72] RUPP, JOCHEN, DE
[72] SCHREINER, ROBERT, DE
[72] SEIDL, KARSTEN, DE
[72] FRANK, TINO, CH
[72] SIRIS, GENRICH, DE
[71] ROBERT BOSCH GMBH, DE
[85] 2021-05-17
[86] 2019-10-18 (PCT/EP2019/078348)
[87] (WO2020/083768)
[30] DE (10 2018 218 046.6) 2018-10-22

[21] **3,120,141**
[13] A1

[51] **Int.Cl. G16C 20/50 (2019.01) G16C 20/70 (2019.01) G16C 60/00 (2019.01)**
[25] EN
[54] **MOLECULAR STRUCTURE EDITOR WITH VERSION CONTROL AND SIMULTANEOUS EDITING OPERATIONS**
[54] **EDITEUR DE STRUCTURE MOLECULAIRE AVEC COMMANDE DE VERSION ET OPERATIONS D'EDITION SIMULTANEEES**
[72] LAFON, JHARROD, US
[71] OPENEYE SCIENTIFIC SOFTWARE, INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061848)
[87] (WO2020/102751)
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[13] A1

[51] **Int.Cl. C12P 7/42 (2006.01) C12P 7/04 (2006.01) C12P 7/64 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING HIGHER ALKANONES, PREFERABLY 6-UNDECANONE, AND DERIVATIVES THEREOF**

[54] **PROCEDE DE PRODUCTION D'ALCANONES PLUS ELEVEES, DE PREFERENCE 6-UNDECANONES, ET LEURS DERIVES**

[72] HAAS, THOMAS, DE

[72] RICHTER, CHRISTIAN, DE

[72] PAULMANN, UWE, DE

[72] HECKER, ANJA, DE

[71] EVONIK OPERATIONS GMBH, DE

[85] 2021-05-17

[86] 2019-11-19 (PCT/EP2019/081753)

[87] (WO2020/104429)

[30] EP (18207311.4) 2018-11-20

[21] **3,120,150**
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61B 5/053 (2021.01) A61B 5/15 (2006.01) A61M 19/00 (2006.01) A61N 1/36 (2006.01) C23C 14/00 (2006.01)**

[25] EN

[54] **MULTIPOLAR CANNULA**

[54] **CANULE MULTIPOLAIRE**

[72] PAJUNK-SHELLING, SIMONE, DE

[72] HAUGER, MARTIN, DE

[71] PAJUNK GMBH
MEDIZINTECHNOLOGIE, DE

[85] 2021-05-17

[86] 2019-11-12 (PCT/EP2019/081060)

[87] (WO2020/104259)

[30] DE (10 2018 129 541.3) 2018-11-23

[21] **3,120,151**
[13] A1

[51] **Int.Cl. C12P 1/04 (2006.01) C10J 3/00 (2006.01) C10L 3/08 (2006.01)**

[25] EN

[54] **INTEGRATION OF FERMENTATION AND GASIFICATION**

[54] **INTEGRATION DE FERMENTATION ET DE GAZEIFICATION**

[72] CONRADO, ROBERT JOHN, US

[72] GAO, ALLAN HAIMING, US

[71] LANZATECH, INC., US

[85] 2021-05-14

[86] 2019-11-19 (PCT/US2019/062217)

[87] (WO2020/106722)

[30] US (62/769,043) 2018-11-19

[30] US (62/779,696) 2018-12-14

[21] **3,120,152**
[13] A1

[51] **Int.Cl. C07D 491/107 (2006.01) A61K 31/506 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **A2-ADRENOCEPTOR SUBTYPE C (ALPHA-2C) ANTAGONISTS FOR THE TREATMENT OF SLEEP APNEA**

[54] **ANTAGONISTES DE RECEPTEUR ALPHA 2-ADRENERGIQUES DE SOUS-TYPE C (ALPHA-2C) POUR LE TRAITEMENT DE L'APNEE DU SOMMEIL**

[72] DELBECK, MARTINA, DE

[72] HAHN, MICHAEL, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2021-05-17

[86] 2019-11-13 (PCT/EP2019/081133)

[87] (WO2020/104266)

[30] EP (18207138.1) 2018-11-20

[21] **3,120,153**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/00 (2006.01)**

[25] EN

[54] **MODIFIED CELL EXPRESSING THERAPEUTIC AGENT AND USES THEREOF**

[54] **AGENT THERAPEUTIQUE D'EXPRESSION DE CELLULES MODIFIEES ET UTILISATIONS ASSOCIEES**

[72] XIAO, LEI, US

[72] CAO, ZHIYUAN, CN

[72] PU, CHENGFEI, CN

[71] INNOVATIVE CELLULAR THERAPEUTICS HOLDINGS, LTD., KY

[85] 2021-05-14

[86] 2019-11-20 (PCT/US2019/062417)

[87] (WO2020/106843)

[30] US (62/769,987) 2018-11-20

[30] US (62/774,595) 2018-12-03

[30] US (62/795,810) 2019-01-23

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[30] US (62/846,563) 2019-05-10

[30] US (62/848,961) 2019-05-16

[30] US (16/445,965) 2019-06-19

[30] US (62/889,926) 2019-08-21

[30] US (62/902,766) 2019-09-19

[21] **3,120,155**
[13] A1

[51] **Int.Cl. G06Q 50/00 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR A PAYMENT EXCHANGE BASED ON AN ENHANCED PATIENT CARE PLAN**

[54] **SYSTEME ET PROCEDE POUR UN ECHANGE DE PAIEMENT BASE SUR UN PLAN DE SOINS DE PATIENT AMELIORE**

[72] OLIVER, GEORGE, US

[72] MIFF, STEVE, US

[72] KOSEL, KEITH, US

[72] CHOWDHRY, VIKAS, US

[72] KHARAT, PRIYANKA, US

[71] PARKLAND CENTER FOR CLINICAL INNOVATION, US

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[87] (WO2021/096538)

[30] US (16/194,277) 2019-11-16

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[21] **3,120,156**
[13] A1

[51] **Int.Cl. G06F 21/55 (2013.01) H04L 29/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BEHAVIORAL THREAT DETECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE MENACE COMPORTEMENTALE**
[72] DICHIU, DANIEL, RO
[72] NICULAE, STEFAN, RO
[72] BOSINCEANU, ELENA A., RO
[72] ZAMFIR, SORINA N., RO
[72] DINCU, ANDREEA, RO
[72] APOSTOAE, ANDREI A., RO
[71] BITDEFENDER IPR MANAGEMENT LTD, CY
[85] 2021-05-17
[86] 2019-12-10 (PCT/EP2019/084310)
[87] (WO2020/120427)
[30] US (16/215,179) 2018-12-10

[21] **3,120,160**
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) A61P 31/00 (2006.01) C07K 14/005 (2006.01)**
[25] EN
[54] **BRANCHED RECEPTOR BINDING MULTI-SUBUNIT PROTEIN COMPLEXES FOR USE IN BACTERIAL DELIVERY VEHICLES**
[54] **PROTEINES CHIMERES DE LIAISON AU RECEPTEUR DESTINEES A ETRE UTILISEES DANS DES VECTEURS POUR DELIVRER DES BACTERIES**
[72] FERNANDEZ-RODRIGUEZ, JESUS, FR
[71] ELIGO BIOSCIENCE, FR
[85] 2021-05-17
[86] 2019-12-23 (PCT/EP2019/086990)
[87] (WO2020/128108)
[30] US (62/783,258) 2018-12-21
[30] US (62/802,777) 2019-02-08
[30] US (16/696,769) 2019-11-26
[30] EP (PCT/EP2019/082640) 2019-11-26

[21] **3,120,163**
[13] A1

[51] **Int.Cl. E06B 3/677 (2006.01) B32B 17/10 (2006.01) E06B 3/66 (2006.01) E06B 3/663 (2006.01)**
[25] EN
[54] **LAMINATED VACUUM-INSULATED GLAZING ASSEMBLY**
[54] **ENSEMBLE VITRAGE ISOLE SOUS VIDE STRATIFIE**
[72] JEANFILS, JULIEN, BE
[72] BEN TRAD, ABDERRAZEK, BE
[71] AGC GLASS EUROPE, BE
[71] AGC INC., JP
[71] AGC FLAT GLASS NORTH AMERICA INC., US
[71] AGC VIDROS DO BRASIL LTDA, BR
[85] 2021-05-17
[86] 2019-12-10 (PCT/EP2019/084343)
[87] (WO2020/120440)
[30] EP (18212518.7) 2018-12-14

[21] **3,120,164**
[13] A1

[51] **Int.Cl. E21B 47/10 (2012.01) E21B 47/135 (2012.01) E21B 41/00 (2006.01) E21B 47/12 (2012.01)**
[25] EN
[54] **EVENT DETECTION USING DAS FEATURES WITH MACHINE LEARNING**
[54] **DETECTION D'EVENEMENT A L'AIDE DE CARACTERISTIQUES DAS AVEC APPRENTISSAGE AUTOMATIQUE**
[72] THIRUVENKATANATHAN, PRADYUMNA, GB
[71] BP EXPLORATION OPERATING COMPANY LIMITED, GB
[71] LYTT LIMITED, GB
[85] 2021-05-17
[86] 2019-11-27 (PCT/EP2019/082809)
[87] (WO2020/109427)
[30] EP (PCT/EP2018/082985) 2018-11-29

[21] **3,120,165**
[13] A1

[51] **Int.Cl. E01F 13/02 (2006.01)**
[25] EN
[54] **ASSEMBLY OF A PRIMARY LIMITING ELEMENT AND A SECONDARY LIMITING ELEMENT FOR A SLUICE SYSTEM, USE OF SUCH AN ARRANGEMENT AND PRIMARY LIMITING ELEMENTS AND/OR SECONDARY LIMITING ELEMENTS FOR SUCH AN ARRANGMENT**
[54] **AGENCEMENT D'UN ELEMENT DE LIMITATION PRIMAIRE ET D'UN ELEMENT DE LIMITATION SECONDAIRE POUR UN SYSTEME DE SAS, UTILISATION D'UN TEL AGENCEMENT ET ELEMENTS DE LIMITATION PRIMAIRES ET/OU ELEMENTS DE LIMITATION SECONDAIRES POUR UN TEL AGENCEMENT**
[72] LERCHE, JOCHEN, DE
[72] ALBINGER, THOMAS, DE
[71] COMPANEER GMBH, DE
[85] 2021-05-17
[86] 2019-11-21 (PCT/EP2019/082115)
[87] (WO2020/104600)
[30] DE (10 2018 129 449.2) 2018-11-22

[21] **3,120,166**
[13] A1

[51] **Int.Cl. C12N 5/073 (2010.01) C12N 5/0735 (2010.01) A23K 10/10 (2016.01) A23J 1/00 (2006.01)**
[25] EN
[54] **FOOD PRODUCTS COMPRISING AVIAN STEM CELLS**
[54] **PRODUITS ALIMENTAIRES COMPRENANT DES CELLULES SOUCHES AVIAIRES**
[72] GUEHENNEUX, FABIENNE, FR
[72] LEON, ARNAUD, FR
[72] MADELINE, BRICE, FR
[72] MOREAU, KARINE, FR
[71] VALNEVA SE, FR
[85] 2021-05-17
[86] 2019-11-22 (PCT/EP2019/082218)
[87] (WO2020/104650)
[30] EP (18208055.6) 2018-11-23

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[13] A1

[51] **Int.Cl. F23K 5/00 (2006.01) F23N 1/00 (2006.01)**

[25] EN

[54] **DEVICE FOR CONTROLLING THE SUPPLY OF A COMBUSTIBLE GAS TO A BURNER OF A HEATING APPARATUS**

[54] **DISPOSITIF DE REGULATION D'ALIMENTATION EN GAZ COMBUSTIBLE DE BRULEUR D'APPAREIL DE CHAUFFAGE**

[72] GIACOMELLI, MASSIMO, IT

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

[85] 2021-05-17

[86] 2019-11-25 (PCT/EP2019/082343)

[87] (WO2020/109196)

[30] IT (102018000010571) 2018-11-26

[21] **3,120,168**
[13] A1

[51] **Int.Cl. C02F 1/34 (2006.01) B01F 5/04 (2006.01) B01F 5/10 (2006.01) C02F 11/04 (2006.01) C02F 11/123 (2019.01) C02F 1/20 (2006.01) C02F 1/24 (2006.01) C02F 1/56 (2006.01)**

[25] FR

[54] **METHOD AND DEVICE FOR IMPROVING SLUDGE BIODEGRADABILITY**

[54] **PROCEDE ET DISPOSITIF D'AMELIORATION DE LA BIODEGRADABILITE D'UNE BOUE**

[72] CAPEAU, PATRICE, FR

[72] GENDROT, PASCAL, FR

[71] OREGE, FR

[85] 2021-05-17

[86] 2019-12-24 (PCT/EP2019/087032)

[87] (WO2020/136212)

[30] FR (FR1874159) 2018-12-26

[21] **3,120,174**
[13] A1

[51] **Int.Cl. A01N 25/28 (2006.01) A01N 25/34 (2006.01) A01N 47/30 (2006.01) A01P 15/00 (2006.01)**

[25] EN

[54] **ENCAPSULATED BIOCIDES**

[54] **BIOCIDES ENCAPSULES**

[72] ELLINGER, STEFAN, CH

[72] CALDWELL, BRITANY, US

[72] STAGGEMEIER, KATRINA, US

[72] WANG, SHUJUN, US

[72] VERDI, SIMONE, CH

[72] KERBER, JOACHIM, CH

[72] JANAK, KEVIN E., US

[72] MAYERHOEFFER, ULRICH, CH

[72] JOBMANN, MONIKA, DE

[72] LATNIKOVA, ALEXANDRA, DE

[72] LOWE, ROSHANAK, US

[71] LONZA SOLUTIONS AG, CH

[85] 2021-05-14

[86] 2019-11-14 (PCT/EP2019/081332)

[87] (WO2020/099567)

[30] EP (18206778.5) 2018-11-16

[30] US (62/768,227) 2018-11-16

[30] EP (19180117.4) 2019-06-13

[30] EP (19180948.2) 2019-06-18

[21] **3,120,175**
[13] A1

[51] **Int.Cl. G06N 3/02 (2006.01) A61B 34/10 (2016.01) G06N 20/10 (2019.01)**

[25] EN

[54] **METHOD FOR DETERMINING A STEREOTACTIC BRAIN TARGET**

[54] **METHODE DE DETERMINATION D'UNE CIBLE CEREBRALE STEREOTAXIQUE**

[72] ENGELHARDT, JULIEN, FR

[72] ZEMZEMI, NEJIB, FR

[72] CUNY, EMMANUEL, FR

[71] UNIVERSITE DE BORDEAUX, FR

[71] INSTITUT POLYTECHNIQUE DE BORDEAUX, FR

[71] CENTRE HOSPITALIER DE BORDEAUX, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE (INRIA), FR

[85] 2021-05-14

[86] 2019-11-18 (PCT/EP2019/081571)

[87] (WO2020/099671)

[30] FR (1860588) 2018-11-16

[21] **3,120,176**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12N 9/22 (2006.01)**

[25] EN

[54] **OPTIMIZATION OF IN VITRO ISOLATION OF NUCLEIC ACIDS USING SITE-SPECIFIC NUCLEASES**

[54] **OPTIMISATION D'ISOLEMENT IN VITRO D'ACIDES NUCLEIQUES A L'AIDE DE NUCLEASES A SITE SPECIFIQUE**

[72] OUELLET, JIMMY, FR

[72] MALUENDA, JEROME, FR

[71] DEPIXUS, FR

[85] 2021-05-14

[86] 2019-11-18 (PCT/EP2019/081625)

[87] (WO2020/099675)

[30] EP (18306507.7) 2018-11-16

[21] **3,120,177**
[13] A1

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

[25] EN

[54] **METHOD AND MEANS TO DELIVER MIRNA TO TARGET CELLS**

[54] **PROCEDE ET MOYENS POUR DELIVRER DU MIARN A DES CELLULES CIBLES**

[72] VALLES-SANCHEZ, ASTRID, NL

[72] KONSTANTINOVA, PAVLINA STEFANOVA, NL

[72] VAN DEVENTER, SANDER JAN HENDRIK, NL

[72] GONZALEZ, MARINA SOGORB, NL

[71] UNIQUE IP B.V., NL

[85] 2021-05-14

[86] 2019-11-19 (PCT/EP2019/081822)

[87] (WO2020/104469)

[30] EP (18206970.8) 2018-11-19

[30] US (62/769,111) 2018-11-19

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[21] **3,120,178**
[13] A1

[51] **Int.Cl. B82B 1/00 (2006.01)**
[25] EN
[54] **FUNCTIONALIZED ENZYME-POWERED NANOMOTORS**
[54] **NANOMOTEURS ALIMENTES PAR FONCTIONNALISATION ENZYMATIQUE**
[72] SANCHEZ ORDONEZ, SAMUEL, ES
[72] PATINO PADIAL, TANIA, ES
[72] LOPES HORTELAO, ANA CANDIDA, ES
[71] FUNDACIÓ INSTITUT DE BIOENGINYERIA DE CATALUNYA, ES
[71] INSTITUCIO CATALANA DE RECERCA I ESTUDIS AVANCATS, ES
[85] 2021-05-14
[86] 2019-12-04 (PCT/EP2019/083662)
[87] (WO2020/115124)
[30] EP (18382896.1) 2018-12-05

[21] **3,120,179**
[13] A1

[51] **Int.Cl. B01J 13/04 (2006.01)**
[25] EN
[54] **GAS-FILLED MICROVESICLES WITH LIGAND**
[54] **MICROVESICULES REMPLIES DE GAZ AVEC LIGAND**
[72] BUSSAT, PHILIPPE, CH
[72] CHERKAOUI, SAMIR, CH
[72] LAZARUS, DAVID, CH
[71] BRACCO SUISSE SA, CH
[85] 2021-05-14
[86] 2019-12-19 (PCT/EP2019/086434)
[87] (WO2020/127816)
[30] EP (18215695.0) 2018-12-21

[21] **3,120,180**
[13] A1

[51] **Int.Cl. B66F 9/075 (2006.01)**
[25] EN
[54] **LOAD WHEEL ASSEMBLY FOR PREVENTING AXIAL AND ROTATIONAL MOVEMENT OF AN AXLE**
[54] **ENSEMBLE ROUE DE CHARGE POUR EMPECHER UN MOUVEMENT AXIAL ET ROTATIF D'UN ESSIEU**
[72] REGES, CLINTON L., US
[72] WETTERER, GEORGE R., US
[72] DUBBERLY, BRUCE A., US
[71] CROWN EQUIPMENT CORPORATION, US
[85] 2021-05-14
[86] 2019-06-27 (PCT/US2019/039379)
[87] (WO2020/139419)
[30] US (16/233,607) 2018-12-27

[21] **3,120,181**
[13] A1

[51] **Int.Cl. C07C 17/383 (2006.01)**
[25] EN
[54] **METHOD TO NEUTRALIZE AND REMOVE HF FROM A CRUDE STREAM CONTAINING HYDROCHLOROFLUOROOLEFIN**
[54] **PROCEDE DE NEUTRALISATION ET D'ELIMINATION DE HF D'UN FLUX BRUT CONTENANT UNE HYDROCHLOROFLUOROOLEFIN E**
[72] PIGAMO, ANNE MARIE, FR
[72] MILLER, JAY FINGERET, US
[72] BOUSSARIE, EMMANUEL DANIEL, FR
[72] HISLER, KEVIN, FR
[71] ARKEMA INC., US
[85] 2021-05-14
[86] 2019-10-10 (PCT/US2019/055546)
[87] (WO2020/101824)
[30] US (62/767,528) 2018-11-15

[21] **3,120,182**
[13] A1

[51] **Int.Cl. A61B 18/12 (2006.01) A61B 18/14 (2006.01)**
[25] EN
[54] **ELECTROSURGICAL SYSTEM**
[54] **SYSTEME ELECTROCHIRURGICAL**
[72] POPE, RYAN, US
[72] SIAZON, KEVIN, US
[72] NGUYEN, DUY, US
[72] RODRIGUEZ, VINCENT, US
[72] MARBUT, MOLLY, US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2021-05-14
[86] 2019-11-05 (PCT/US2019/059909)
[87] (WO2020/101954)
[30] US (62/768,782) 2018-11-16

[21] **3,120,183**
[13] A1

[51] **Int.Cl. F04D 9/00 (2006.01) E21B 43/12 (2006.01) F04D 1/06 (2006.01) F04D 9/02 (2006.01) F04D 13/10 (2006.01)**
[25] EN
[54] **GAS-LOCK RE-PRIME SHAFT PASSAGE IN SUBMERSIBLE WELL PUMP AND METHOD OF RE-PRIMING THE PUMP**
[54] **PASSAGE D'ARBRE DE REAMORCAGE A VERROUILLAGE DE GAZ DANS UNE POMPE DE PUIT SUBMERSIBLE ET PROCEDE DE REAMORCAGE DE LA POMPE**
[72] LU, XIAONAN, US
[72] RUTTER, RISA, US
[72] YE, ZHENG, US
[71] BAKER HUGHES HOLDINGS LLC, US
[85] 2021-05-14
[86] 2019-11-11 (PCT/US2019/060738)
[87] (WO2020/106480)
[30] US (62/769,145) 2018-11-19
[30] US (16/678,105) 2019-11-08

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[21] **3,120,184**
[13] A1

[51] **Int.Cl. A61B 17/29 (2006.01) A61B 90/00 (2016.01)**
[25] EN
[54] **LAPAROSCOPIC GRASPER WITH FORCE-LIMITING GRASPING MECHANISM**
[54] **DISPOSITIF DE PREHENSION LAPAROSCOPIQUE A MECANISME DE PREHENSION A LIMITATION DE FORCE**
[72] REINDEL, ERIC S., US
[72] HOVAIDA, JAVID E., US
[72] FAST, KYLE R., US
[72] STROKOSZ, ARKADIUSZ A., US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2021-05-14
[86] 2019-11-11 (PCT/US2019/060743)
[87] (WO2020/102086)
[30] US (62/768,018) 2018-11-15

[21] **3,120,185**
[13] A1

[51] **Int.Cl. A61K 39/085 (2006.01) A61P 35/00 (2006.01) C12N 1/12 (2006.01) C12N 1/20 (2006.01) C12N 15/00 (2006.01) C12N 15/74 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **AUXOTROPHIC STRAINS OF STAPHYLOCOCCUS BACTERIUM**
[54] **SOUCHES AUXOTROPHES DE BACTERIE STAPHYLOCOCCUS**
[72] ANDREWS, RICHARD, US
[71] AZITRA INC, US
[85] 2021-05-14
[86] 2019-11-14 (PCT/US2019/061439)
[87] (WO2020/102507)
[30] US (62/768,485) 2018-11-16

[21] **3,120,186**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/64 (2017.01) A61K 35/12 (2015.01) A61K 38/17 (2006.01) A61K 39/44 (2006.01) A61P 35/04 (2006.01) C07K 14/47 (2006.01) C07K 16/18 (2006.01) C07K 16/32 (2006.01) C07K 17/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE CYTOPLASMIC DELIVERY OF ANTIBODIES AND OTHER PROTEINS**
[54] **COMPOSITIONS ET PROCEDES POUR L'ADMINISTRATION CYTOPLASMIQUE D'ANTICORPS ET D'AUTRES PROTEINES**
[72] TSOURKAS, ANDREW, US
[72] WANG, HEJIA HENRY, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2021-05-14
[86] 2019-11-14 (PCT/US2019/061575)
[87] (WO2020/102609)
[30] US (62/768,034) 2018-11-15

[21] **3,120,187**
[13] A1

[51] **Int.Cl. E21B 7/15 (2006.01) E21B 21/00 (2006.01) E21B 43/00 (2006.01) E21C 25/60 (2006.01) E21C 45/00 (2006.01)**
[25] EN
[54] **MINING METHOD**
[54] **PROCEDE D'EXPLOITATION MINIERE**
[72] MORROW, ROBERT JOHN, AU
[72] THOMSON, ROSS HARPUR, AU
[72] CABASSI, PAUL JASON, AU
[72] MARDON, CHRISTOPHER GEORGE, AU
[72] MORROW, FRASER THOMAS ROBERT, AU
[71] PTRM PTY LTD, AU
[85] 2021-05-14
[86] 2019-11-15 (PCT/AU2019/051264)
[87] (WO2020/097695)
[30] AU (2018904379) 2018-11-16

[21] **3,120,188**
[13] A1

[51] **Int.Cl. C11D 1/90 (2006.01) A01N 37/44 (2006.01) C07C 237/06 (2006.01) C08K 5/19 (2006.01) C11D 3/48 (2006.01)**
[25] FR
[54] **PROCESS FOR PREPARING A SURFACTANT COMPOSITION BASED ON A GLYCINE BETAINE ESTER SALT, AND COMPOSITION THUS OBTAINED**
[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION TENSIOACTIVE A BASE DE SEL D'ESTER DE GLYCINE BETAINE ET COMPOSITION AINSI OBTENUE**
[72] PLESSEL, FREDDY, FR
[72] GALLE, FRANCIS, FR
[72] DIVET, PIERRE-YVES, FR
[72] ROUSSEL, XAVIER, FR
[71] SURFACTGREEN, FR
[85] 2021-05-14
[86] 2019-11-25 (PCT/FR2019/052801)
[87] (WO2020/109710)
[30] FR (1871892) 2018-11-27

[21] **3,120,189**
[13] A1

[51] **Int.Cl. H04L 29/08 (2006.01) H04W 4/00 (2018.01) A24F 47/00 (2020.01)**
[25] EN
[54] **DIAGNOSTIC SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DIAGNOSTIC**
[72] JAIN, SIDDHARTHA, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2021-05-14
[86] 2019-10-03 (PCT/GB2019/052787)
[87] (WO2020/099822)
[30] GB (1818741.9) 2018-11-16

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[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 39/00 (2006.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61K 47/26 (2006.01)**

[25] EN
[54] **STABLE LIQUID COMPOSITION COMPRISING PROTEIN**
[54] **COMPOSITION LIQUIDE STABLE COMPRENANT UNE PROTEINE**

[72] JUNG, YOUNGSEOK, KR
[72] HONG, JAHYE, KR
[72] JOO, KYUNG HEE, KR
[72] LEE, JAEMIN, KR
[72] LEE, HUN JOO, KR
[72] KIM, YONGKOOK, KR
[71] SAMSUNG BIOEPIS CO., LTD., KR
[85] 2021-05-14
[86] 2019-11-15 (PCT/KR2019/015709)
[87] (WO2020/101452)
[30] KR (10-2018-0141556) 2018-11-16

[21] **3,120,191**
[13] A1

[51] **Int.Cl. A45C 5/14 (2006.01) A45C 13/26 (2006.01)**

[25] EN
[54] **ROD ROTATION APPARATUS**
[54] **APPAREIL DE ROTATION DE TIGE**

[72] CHO, WONSANG, KR
[71] CHO, WONSANG, KR
[85] 2021-05-14
[86] 2019-11-19 (PCT/KR2019/015799)
[87] (WO2020/105999)
[30] KR (10-2018-0143064) 2018-11-20
[30] KR (10-2019-0111827) 2019-09-10

[21] **3,120,192**
[13] A1

[51] **Int.Cl. E02D 7/08 (2006.01) E02D 7/14 (2006.01)**

[25] EN
[54] **A PILE DRIVING SYSTEM**
[54] **SYSTEME DE BATTAGE DE PIEUX**

[72] JUNG, BOUDEWIJN CASPER, NL
[72] VAN VESSEM, HENRICUS GERARDUS ANDREAS, NL
[72] BROUWER, WILLIBRORDUS ADELBERTUS MARIA, NL
[71] IHC HOLLAND IE B.V., NL
[85] 2021-05-14
[86] 2019-11-20 (PCT/NL2019/050762)
[87] (WO2020/106147)
[30] NL (2022051) 2018-11-22

[21] **3,120,193**
[13] A1

[51] **Int.Cl. F16G 15/06 (2006.01) B66C 1/00 (2006.01)**

[25] EN
[54] **A SHACKLE ASSEMBLY**
[54] **ENSEMBLE MANILLE**

[72] GUNTER, DAVID HOWELL, GB
[71] IHC HOLLAND IE B.V., NL
[85] 2021-05-14
[86] 2019-11-20 (PCT/NL2019/050763)
[87] (WO2020/111938)
[30] NL (2022084) 2018-11-28

[21] **3,120,194**
[13] A1

[51] **Int.Cl. A61B 18/12 (2006.01)**

[25] EN
[54] **ELECTROSURGICAL SYSTEM**
[54] **SYSTEME ELECTROCHIRURGICAL**

[72] SIAZON, KEVIN, US
[72] POPE, RYAN, US
[72] RODRIGUEZ, VINCENT, US
[72] AUGUSTUS, DEVON, US
[72] NGUYEN, DUY, US
[72] ELLIOTT, PATRICK, US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2021-05-14
[86] 2018-11-16 (PCT/US2018/061646)
[87] (WO2020/101711)

[21] **3,120,195**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/76 (2006.01)**

[25] EN
[54] **SYSTEMS, METHOD AND APPARATUS FOR CORRECTING TRANSMISSION DEVIATIONS OF INTERFERENCE FILTERS DUE TO ANGLE OF INCIDENCE**
[54] **SYSTEMES, PROCEDE ET APPAREIL POUR CORRIGER DES DEVIATIONS DE TRANSMISSION DE FILTRES D'INTERFERENCE EN RAISON D'UN ANGLE D'INCIDENCE**

[72] MEGANCK, JEFFREY, US
[72] KEMPNER, JOSHUA, US
[72] ROYAL, MATTHEW, US
[71] PERKINELMER HEALTH SCIENCES, INC., US
[85] 2021-05-14
[86] 2018-11-19 (PCT/US2018/061741)
[87] (WO2020/101714)
[30] US (16/193,236) 2018-11-16

[21] **3,120,196**
[13] A1

[51] **Int.Cl. A61K 31/69 (2006.01) A61K 31/025 (2006.01) A61K 31/435 (2006.01)**

[25] EN
[54] **INHIBITORS OF ARG1 AND/OR ARG2**
[54] **INHIBITEURS D'ARG1 ET/OU D'ARG2**

[72] BEATTY, JOEL, US
[72] FOLEY, CORINNE NICOLE, US
[72] GRANGE, REBECCA LOUISE, US
[72] GUNEY, TEZCAN, US
[72] JACOB, STEVEN DONALD, US
[72] KALISIAK, JAROSLAW, US
[72] LELETI, MANMOHAN REDDY, US
[72] LINDSEY, ERICK ALLEN, US
[72] MANDAL, DEBASHIS, US
[72] NEWCOMB, ERIC THOMAS, US
[72] POWERS, JAY PATRICK, US
[72] ROSEN, BRANDON REID, US
[72] SU, YONGLI, US
[72] TRAN, ANH THU, US
[71] ARCUS BIOSCIENCES, INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061657)
[87] (WO2020/102646)
[30] US (62/768,284) 2018-11-16

[21] **3,120,197**
[13] A1

[51] **Int.Cl. G01S 11/00 (2006.01) H04W 64/00 (2009.01)**

[25] EN
[54] **DETERMINING A LOCATION OF MOTION DETECTED FROM WIRELESS SIGNALS**
[54] **DETERMINATION D'EMPLACEMENT DE MOUVEMENT DETECTE A PARTIR DE SIGNAUX SANS FIL**

[72] OMER, MOHAMMAD, CA
[72] DEVISON, STEPHEN ARNOLD, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2021-05-17
[86] 2019-10-29 (PCT/CA2019/051529)
[87] (WO2020/113313)
[30] US (16/207,673) 2018-12-03

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<p style="text-align: center;">[21] 3,120,198 [13] A1</p> <p>[51] Int.Cl. B65G 1/04 (2006.01) [25] EN [54] ROBOT-BASED RANDOM STORAGE METHOD AND APPARATUS, ELECTRONIC DEVICE AND STORAGE MEDIUM</p> <p>[54] PROCEDE ET APPAREIL DE STOCKAGE ALEATOIRE BASE SUR UN ROBOT, DISPOSITIF ELECTRONIQUE ET SUPPORT DE STOCKAGE</p> <p>[72] WAN, QI, CN [71] SYRIUS ROBOTICS CO., LTD., CN [85] 2021-05-17 [86] 2018-12-29 (PCT/CN2018/125121) [87] (WO2020/103295) [30] CN (201811371578.2) 2018-11-19</p>	<p style="text-align: center;">[21] 3,120,200 [13] A1</p> <p>[51] Int.Cl. A61K 39/395 (2006.01) C12Q 1/6827 (2018.01) C12Q 1/6886 (2018.01) A61P 35/00 (2006.01) C12Q 1/68 (2018.01)</p> <p>[25] EN [54] METHOD OF IMPROVING PREDICTION OF RESPONSE FOR CANCER PATIENTS TREATED WITH IMMUNOTHERAPY</p> <p>[54] PROCEDE D'AMELIORATION DE LA PREDICTION DE LA REPOSE POUR DES PATIENTS CANCEREUX TRAITES PAR IMMUNOTHERAPIE</p> <p>[72] DRACOPOLI, NICHOLAS C., US [72] CERQUEIRA, GUSTAVO, US [71] PERSONAL GENOME DIAGNOSTICS INC., US [85] 2021-05-14 [86] 2019-11-15 (PCT/US2019/061710) [87] (WO2020/102674) [30] US (62/767,979) 2018-11-15</p>	<p style="text-align: center;">[21] 3,120,202 [13] A1</p> <p>[51] Int.Cl. G05D 1/00 (2006.01) B60W 60/00 (2020.01) G01S 17/931 (2020.01) A01B 69/04 (2006.01) A01B 79/00 (2006.01) G05D 1/02 (2020.01)</p> <p>[25] EN [54] INTEGRATED PLATFORM AND COMMON SOFTWARE STRUCTURAL ARCHITECTURE FOR AUTONOMOUS AGRICULTURAL VEHICLE AND MACHINERY OPERATION</p> <p>[54] PLATE-FORME INTEGREE ET ARCHITECTURE STRUCTURELLE LOGICIELLE COMMUNE DESTINEE A UN VEHICULE AGRICOLE AUTONOME ET FONCTIONNEMENT DE MACHINERIE</p> <p>[72] HURD, COLIN JOSH, US [72] BARGLOF, MARK WILLIAM, US [72] MILLOY, QUINCY CALVIN, US [71] RAVEN INDUSTRIES, INC., US [85] 2021-05-14 [86] 2019-11-15 (PCT/US2019/061867) [87] (WO2020/102763) [30] US (62/768,023) 2018-11-15</p>
<p style="text-align: center;">[21] 3,120,199 [13] A1</p> <p>[51] Int.Cl. H04W 72/04 (2009.01) [25] EN [54] METHOD FOR TRANSMITTING DATA AND TERMINAL DEVICE</p> <p>[54] PROCEDE DE TRANSMISSION DE DONNEES ET DISPOSITIF TERMINAL</p> <p>[72] LIN, YANAN, CN [71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN [85] 2021-05-17 [86] 2019-03-28 (PCT/CN2019/080240) [87] (WO2020/191765)</p>	<p style="text-align: center;">[21] 3,120,201 [13] A1</p> <p>[51] Int.Cl. A61C 17/34 (2006.01) A61C 17/00 (2006.01)</p> <p>[25] EN [54] VERTICAL-BRUSHING ELECTRIC TOOTHBRUSH</p> <p>[54] BROSSE A DENTS ELECTRIQUE A BROSSAGE VERTICAL</p> <p>[72] LIU, PINGJUN, CN [71] DAJOCARE TECHNOLOGY (SHENZHEN) CO., LTD., CN [85] 2021-05-17 [86] 2019-06-14 (PCT/CN2019/091310) [87] (WO2020/124969) [30] CN (201811544481.7) 2018-12-17 [30] CN (201822117398.3) 2018-12-17</p>	<p style="text-align: center;">[21] 3,120,203 [13] A1</p> <p>[51] Int.Cl. A61K 8/04 (2006.01) A61Q 5/10 (2006.01)</p> <p>[25] EN [54] HAIR MODIFICATION SYSTEM</p> <p>[54] SYSTEME DE MODIFICATION DES CHEVEUX</p> <p>[72] COHEN, BEN JAN, AU [72] RISHER, BENNY, AU [72] BOKSHISH, KOBİ, AU [71] 2B1K IMPORTS PTY LTD, AU [85] 2021-05-17 [86] 2019-07-23 (PCT/AU2019/050771) [87] (WO2020/097665) [30] AU (2018904356) 2018-11-15 [30] AU (2019901545) 2019-05-07</p>

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[21] **3,120,204**
[13] A1

[51] **Int.Cl. F25B 9/00 (2006.01) C09K 5/04 (2006.01)**

[25] EN

[54] **NONFLAMMABLE REFRIGERANTS HAVING LOW GWP, AND SYSTEMS FOR AND METHODS OF PROVIDING REFRIGERATION**

[54] **FLUIDES FRIGORIGENES ININFLAMMABLES AYANT UN FAIBLE PRG ET SYSTEMES ET PROCEDES PERMETTANT D'ASSURER UNE REFRIGERATION**

[72] YANA MOTTA, SAMUEL F., US

[72] HULSE, RYAN, US

[72] CLOSE, JOSHUA, US

[72] SETHL, ANKIT, US

[72] POTTKER, GUSTAVO, US

[71] HONEYWELL INTERNATIONAL INC., US

[85] 2021-05-14

[86] 2019-11-21 (PCT/US2019/062560)

[87] (WO2020/106930)

[30] US (62/770,522) 2018-11-21

[30] US (16/690,030) 2019-11-20

[21] **3,120,205**
[13] A1

[51] **Int.Cl. F24C 15/20 (2006.01) F24F 7/06 (2006.01) F24F 11/00 (2018.01)**

[25] EN

[54] **SMART INDOOR AIR VENTING SYSTEM**

[54] **SYSTEME INTELLIGENT DE VENTILATION D'AIR INTERIEUR**

[72] MOORE, MIKE, US

[72] SINUR, RICHARD R., US

[72] ASMUS, JASON, US

[72] ROUGAB, SEDDIK, US

[72] SCHROEDER, TAYLOR, US

[72] THERIAULT, ERIC, US

[71] BROAN-NUTONE LLC, US

[85] 2021-05-14

[86] 2019-11-27 (PCT/US2019/063581)

[87] (WO2020/112981)

[30] US (62/772,724) 2018-11-29

[21] **3,120,206**
[13] A1

[51] **Int.Cl. A61K 31/4406 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **APPLICATION OF CHIDAMIDE**

[54] **APPLICATION DU CHIDAMIDE**

[72] LU, XIANPING, CN

[72] HUANG, HUIQIANG, CN

[72] LI, WENYU, CN

[72] FU, XIN, CN

[71] SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., CN

[85] 2021-05-17

[86] 2019-11-18 (PCT/CN2019/119094)

[87] (WO2020/103778)

[30] CN (201811385440.8) 2018-11-20

[21] **3,120,207**
[13] A1

[51] **Int.Cl. A61K 31/44 (2006.01) A61K 31/475 (2006.01) A61K 31/573 (2006.01) A61K 31/675 (2006.01) A61K 31/704 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **APPLICATION OF CHIDAMIDE IN COMBINATION WITH R-CHOP, AND DRUG COMBINATION**

[54] **APPLICATION DU CHIDAMIDE ASSOCIE A R-CHOP ET COMBINAISON DE MEDICAMENTS**

[72] LU, XIANPING, CN

[72] ZHAO, WEILI, CN

[72] FU, XIN, CN

[72] XU, PENG PENG, CN

[72] LIU, TING, CN

[71] SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., CN

[71] RUI JIN HOSPITAL AFFILIATED TO THE SHANGHAI JIAO TONG UNIVERSITY SCHOOL OF MEDICINE, CN

[85] 2021-05-17

[86] 2019-11-18 (PCT/CN2019/119170)

[87] (WO2020/103788)

[30] CN (201811394614.7) 2018-11-20

[21] **3,120,208**
[13] A1

[51] **Int.Cl. G01N 19/06 (2006.01) G01N 23/2251 (2018.01) G01R 31/302 (2006.01) G01R 31/303 (2006.01)**

[25] EN

[54] **ION BEAM DELAYERING SYSTEM AND METHOD, TOPOGRAPHICALLY ENHANCED DELAYERED SAMPLE PRODUCED THEREBY, AND IMAGING METHODS AND SYSTEMS RELATED THERETO**

[54] **SYSTEME ET PROCEDE DE DESTRUCTURATION PAR FAISCEAU D'IONS, ECHANTILLON DESTRUCTURE AMELIORE DE MANIERE TOPOLOGIQUE PRODUIT PAR CES DERNIERS ET PROCEDES ET SYSTEMES D'IMAGERIE ASSO CIES**

[72] PAWLOWICZ, CHRISTOPHER, CA

[72] SORKIN, ALEXANDER, CA

[71] TECHINSIGHTS INC., CA

[85] 2021-05-17

[86] 2019-11-20 (PCT/CA2019/051661)

[87] (WO2020/102899)

[30] US (62/770,528) 2018-11-21

[21] **3,120,209**
[13] A1

[51] **Int.Cl. F02C 3/107 (2006.01) F01D 25/16 (2006.01) F02C 7/36 (2006.01)**

[25] EN

[54] **DUAL-FLOW TURBOJET ENGINE ARRANGEMENT WITH EPICYCLIC OR PLANETARY REDUCTION GEAR**

[54] **AGENCEMENT DE TURBOREACTEUR DOUBLE FLUX A REDUCTEUR EPICYCLOIDAL OU PLANETAIRE**

[72] TAN-KIM, ALEXANDRE JEAN-MARIE, FR

[72] BENSLAMA, YANIS, FR

[72] DIEVART, JEREMY, FR

[72] BECOULET, JULIEN FABIEN PATRICK, FR

[71] SAFRAN AIRCRAFT ENGINES, FR

[85] 2021-05-17

[86] 2019-11-21 (PCT/FR2019/052774)

[87] (WO2020/109702)

[30] FR (1871931) 2018-11-27

Demandes PCT entrant en phase nationale

[21] **3,120,210**
[13] A1

[51] **Int.Cl. F02C 3/107 (2006.01) F01D 25/16 (2006.01) F02C 7/36 (2006.01)**
[25] EN
[54] **DOUBLE-FLOW TURBOJET ENGINE ASSEMBLY WITH EPICYCLOIDAL OR PLANETARY GEARBOX**
[54] **AGENCEMENT DE TURBOREACTEUR DOUBLE FLUX A REDUCTEUR EPICYCLOIDAL OU PLANETAIRE**
[72] BELMON, GUILLAUME CLAUDE ROBERT, FR
[72] ZACCARDI, CEDRIC, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-05-17
[86] 2019-11-21 (PCT/FR2019/052775)
[87] (WO2020/109703)
[30] FR (1871930) 2018-11-27

[21] **3,120,211**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/44 (2006.01) A61P 7/02 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **POLYPEPTIDE FOR TREATING PATHOLOGICAL BLOOD CLOTS**
[54] **POLYPEPTIDE POUR LE TRAITEMENT DE CAILLOTS SANGUINS PATHOLOGIQUES**
[72] CHANG, TSE-WEN, CN
[72] CHU, HSING-MAO, CN
[72] TIAN, WEI-TING, CN
[72] CHANG, TING-WEI, CN
[72] HSIEH, MING-YU, CN
[71] IMMUNWORK INC., CN
[85] 2021-05-17
[86] 2019-11-21 (PCT/CN2019/120004)
[87] (WO2020/103910)
[30] US (62/770,188) 2018-11-21

[21] **3,120,212**
[13] A1

[51] **Int.Cl. F15B 19/00 (2006.01)**
[25] FR
[54] **METHOD FOR CONTROL OF A CYLINDER**
[54] **PROCEDE DE CONTROLE D'UN VERIN**
[72] LE BRUN, CHRISTOPHE MARC ALEXANDRE, FR
[72] YING, CHARLES, FR
[72] FERRER BELLOTI CARDIN, ALEXIS, FR
[71] SAFRAN AIRCRAFT ENGINES, FR
[85] 2021-05-17
[86] 2019-11-26 (PCT/FR2019/052811)
[87] (WO2020/115400)
[30] FR (1872531) 2018-12-07

[21] **3,120,213**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A23L 29/10 (2016.01) A23L 33/105 (2016.01) A23D 7/005 (2006.01) A61K 9/107 (2006.01) A61K 9/14 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 47/24 (2006.01) A61K 47/26 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE FORMULATIONS, METHODS OF MAKING AND USE**
[54] **FORMULATIONS HYDROSOLUBLES DE CANNABINOIDES OU DE COMPOSES DERIVES DU CANNABIS, LEURS PROCEDES DE FABRICATION ET LEURS METHODES D'UTILISATION**
[72] GEILING, BEN, CA
[72] HAJIRAHIMKHAN, SOHEIL, CA
[72] JACKOWETZ, JOHN NICHOLAS, CA
[72] PASQUARIELLO, BRANDON, CA
[72] YOUNG, SCOTT, CA
[71] CANOPY GROWTH CORPORATION, CA
[85] 2021-05-17
[86] 2019-11-27 (PCT/CA2019/051698)
[87] (WO2020/107114)
[30] US (62/773,644) 2018-11-30
[30] US (62/773,652) 2018-11-30
[30] US (62/926,885) 2019-10-28

[21] **3,120,214**
[13] A1

[51] **Int.Cl. F16K 5/20 (2006.01) F16K 5/06 (2006.01) F16K 31/44 (2006.01)**
[25] EN
[54] **DBB FORCED SEALING VALVE AND OPERATION DEVICE**
[54] **SOUPAPE D'ETANCHEITE FORCEE DBB ET DISPOSITIF DE FONCTIONNEMENT**
[72] LIU, ZHIGANG, CN
[72] CHEN, JIMENG, CN
[72] LIU, XIAOQI, CN
[71] ZIBO VOTAISI PETROCHEMICAL EQUIPMENT CO., LTD., CN
[85] 2021-05-17
[86] 2020-07-29 (PCT/CN2020/105504)
[87] (WO2021/052018)
[30] CN (201910889922.5) 2019-09-20

[21] **3,120,216**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01)**
[25] EN
[54] **ENHANCED DETECTION OF LOW-COPY-NUMBER NUCLEIC ACIDS IN AN INTEGRATED WORKFLOW**
[54] **DETECTION AMELIOREE D'ACIDES NUCLEIQUES A FAIBLE NOMBRE DE COPIES DANS UN FLUX DE TRAVAIL INTEGRE**
[72] HAESSENDONCKX, MAX, BE
[71] BIOCARTIS NV, BE
[85] 2021-05-17
[86] 2019-11-18 (PCT/EP2019/081683)
[87] (WO2020/104390)
[30] EP (18207092.0) 2018-11-19

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[21] **3,120,218**
[13] A1

[51] **Int.Cl. G21F 1/10 (2006.01) G21F 1/06 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL PAINTS AND CAULKS WITH CONTROLLABLE ELECTROMAGNETIC PROPERTIES**
[54] **PEINTURES ET MASTICS MULTIFONCTIONNELS A PROPRIETES ELECTROMAGNETIQUES REGLABLES**
[72] HANSEN, GEORGE CLAYTON, US
[71] HANSEN, GEORGE CLAYTON, US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061845)
[87] (WO2020/102748)
[30] US (62/768,740) 2018-11-16
[30] US (16/601,095) 2019-10-14

[21] **3,120,219**
[13] A1

[51] **Int.Cl. B01D 65/08 (2006.01) A61F 2/01 (2006.01) A61F 13/00 (2006.01) B01D 69/10 (2006.01) B01D 69/12 (2006.01) B01D 69/14 (2006.01) B01D 71/32 (2006.01) B01D 71/36 (2006.01) B01D 71/54 (2006.01)**
[25] EN
[54] **A SEMIPERMEABLE ARRANGEMENT**
[54] **AGENCEMENT SEMI-PERMEABLE**
[72] LAU, ERNEST WAI YIN, GB
[71] LAU, ERNEST WAI YIN, GB
[85] 2021-05-17
[86] 2019-05-03 (PCT/EP2019/061465)
[87] (WO2019/211479)
[30] GB (1807322.1) 2018-05-03
[30] GB (1812846.2) 2018-08-07

[21] **3,120,220**
[13] A1

[51] **Int.Cl. F24F 13/06 (2006.01) B64D 13/00 (2006.01)**
[25] EN
[54] **AIR DEFLECTOR AND SYSTEM INCLUDING THE AIR DEFLECTOR**
[54] **DEFLECTEUR D'AIR ET SYSTEME DOTE DUDIT DEFLECTEUR D'AIR**
[72] WANG, HONGZHI, CA
[72] VERRELLI, DANILLO, CA
[72] RHEAUME, MICHEL, CA
[71] MHI RJ AVIATION ULC, CA
[85] 2021-05-17
[86] 2019-12-17 (PCT/CA2019/051827)
[87] (WO2020/124216)
[30] US (62/783,321) 2018-12-21

[21] **3,120,221**
[13] A1

[51] **Int.Cl. C07C 17/35 (2006.01) C07C 25/08 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARATION OF 5-BROMO-1,3-DICHLORO-2-FLUORO-BENZENE**
[54] **PROCEDE DE PREPARATION DE 5-BROMO-1,3-DICHLORO-2-FLUORO-BENZENE**
[72] KOERBER, KARSTEN, DE
[72] RACK, MICHAEL, DE
[72] BINDSCHAEDLER, PASCAL, CH
[72] MCLAUGHLIN, MARTIN JOHN, DE
[72] GOCKEL, BIRGIT, DE
[72] VYAS, DEVENDRA, US
[72] SOERGEL, SEBASTIAN, DE
[71] BASF SE, DE
[85] 2021-05-17
[86] 2019-11-25 (PCT/EP2019/082352)
[87] (WO2020/114813)
[30] EP (18209956.4) 2018-12-04

[21] **3,120,223**
[13] A1

[51] **Int.Cl. A61B 34/10 (2016.01) A61B 5/01 (2006.01) A61B 5/05 (2021.01) A61B 8/08 (2006.01) A61B 18/12 (2006.01) G06K 9/34 (2006.01)**
[25] EN
[54] **TEMPORAL MAPPING OF THERMAL ABLATION AREAS**
[54] **CARTOGRAPHIE TEMPORELLE DE ZONES D'ABLATION THERMIQUE**
[72] KRUECKER, JOCHEN, NL
[72] SETHURAMAN, SHRIRAM, NL
[72] MERAL, FAIK CAN, NL
[72] SHI, WILLIAM TAO, NL
[72] LEYVI, EVGENIY, NL
[71] KONINKLIJKE PHILIPS N.V., NL
[85] 2021-05-17
[86] 2019-11-15 (PCT/EP2019/081450)
[87] (WO2020/104308)
[30] US (62/769602) 2018-11-20

[21] **3,120,224**
[13] A1

[51] **Int.Cl. A61F 5/00 (2006.01) A61F 2/26 (2006.01) A61F 2/50 (2006.01) A61F 5/41 (2006.01) A61H 19/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING PENILE MODELING**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR UN MODELAGE DU PENIS**
[72] PAI, SURESH SUBRAYA, US
[72] BAGAOISAN, CELSO JACINTO, US
[72] GOLDMAN, IAN L., US
[72] STROBEL, JOHN M., US
[71] LAMAMED SOLUTIONS, US
[85] 2021-05-13
[86] 2019-11-11 (PCT/US2019/060805)
[87] (WO2020/102120)
[30] US (62/768,316) 2018-11-16

Demandes PCT entrant en phase nationale

[21] **3,120,226**
[13] A1

[51] **Int.Cl. C12N 1/15 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/80 (2006.01) C12P 7/48 (2006.01)**

[25] EN

[54] **CITRIC ACID-PRODUCING MICROBIAL STRAIN AND METHOD FOR PRODUCING CITRIC ACID BY FERMENTING STARCH SUGAR USING SAME**

[54] **SOUICHE DE MICRO-ORGANISME PRODUISANT DE L'ACIDE CITRIQUE ET PROCEDE DE PRODUCTION D'ACIDE CITRIQUE PAR FERMENTATION DE SUCRE D'AMIDON S'Y RAPPORTANT**

[72] WANG, DEPEI, CN
[72] ZHANG, HONGFEI, CN
[72] QIN, LI, CN
[72] ZHANG, JIANHUA, CN
[72] HOU, LI, CN
[71] TIANJIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, CN

[85] 2021-05-17
[86] 2018-11-20 (PCT/CN2018/000393)
[87] (WO2020/056536)
[30] CN (201811104656.2) 2018-09-21

[21] **3,120,227**
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01) A61B 5/103 (2006.01) A61B 5/11 (2006.01) G02C 7/06 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING A PROGRESSIVE LENS AND ASSOCIATED SYSTEM**

[54] **PROCEDE DE DETERMINATION D'UNE LENTILLE PROGRESSIVE ET SYSTEME ASSOCIE**

[72] TRANVOUEZ-BERNARDIN, DELPHINE, CA
[72] FAUBERT, JOCELYN, CA
[72] GIRAUDET, GUILLAUME, FR
[71] ESSILOR INTERNATIONAL, FR
[71] UNIVERSITE DE MONTREAL, CA

[85] 2021-05-17
[86] 2019-11-27 (PCT/EP2019/082813)
[87] (WO2020/109430)
[30] EP (18306598.6) 2018-11-30

[21] **3,120,229**
[13] A1

[51] **Int.Cl. B22F 9/22 (2006.01) B22F 1/00 (2006.01) B22F 9/04 (2006.01) C01G 49/02 (2006.01) C22C 33/02 (2006.01) B22F 9/00 (2006.01)**

[25] EN

[54] **A METHOD OF PRODUCING SPHERICAL IRON POWDER AND PRODUCTS THEREOF**

[54] **PROCEDE DE PRODUCTION DE POUVRE DE FER SPHERIQUE ET PRODUITS ASSOCIES**

[72] DWARAPUDI, SRINIVAS, IN
[72] RANJAN SINHA, GOURAV, IN
[72] KAMESWARA SRIKAR, SISTA, IN
[72] KUMAR, DEEPAK, IN
[72] SUDAN, MUNISH, IN
[72] NARAYAN VAIDYA, MANISH, CA
[72] BERGTHORSON, JEFFREY, CA
[72] JULIEN, PHILIPPE, CA
[71] TATA STEEL LIMITED, IN
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA

[85] 2021-05-17
[86] 2019-08-05 (PCT/IB2019/056636)
[87] (WO2020/104866)
[30] IN (201841044234) 2018-11-23

[21] **3,120,230**
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01) A61B 5/103 (2006.01) G02C 7/06 (2006.01)**

[25] EN

[54] **METHOD FOR DETERMINING A PROGRESSIVE LENS AND ASSOCIATED SYSTEM**

[54] **PROCEDE DE DETERMINATION D'UNE LENTILLE PROGRESSIVE ET SYSTEME ASSOCIE**

[72] TRANVOUEZ-BERNARDIN, DELPHINE, CA
[72] FAUBERT, JOCELYN, CA
[72] GIRAUDET, GUILLAUME, FR
[71] ESSILOR INTERNATIONAL, FR
[71] UNIVERSITE DE MONTREAL, CA

[85] 2021-05-17
[86] 2019-11-27 (PCT/EP2019/082814)
[87] (WO2020/109431)
[30] EP (18306597.8) 2018-11-30

[21] **3,120,231**
[13] A1

[51] **Int.Cl. B63B 21/50 (2006.01) F03D 13/25 (2016.01) B63B 35/44 (2006.01) F03B 13/14 (2006.01)**

[25] EN

[54] **BUOY AND INSTALLATION METHOD FOR THE BUOY**

[54] **BOUEE ET PROCEDE D'INSTALLATION DE LA BOUEE**

[72] BAROSS, JOHN STEPHEN, GB
[71] AXIS ENERGY PROJECTS GROUP LIMITED, GB

[85] 2021-05-17
[86] 2018-11-20 (PCT/GB2018/053359)
[87] (WO2019/102188)
[30] GB (1719303.8) 2017-11-21

[21] **3,120,232**
[13] A1

[51] **Int.Cl. A41F 9/02 (2006.01) A41D 31/12 (2019.01) A41D 31/18 (2019.01) B32B 7/02 (2019.01) B32B 33/00 (2006.01)**

[25] EN

[54] **ABSORBENT, WICKING, EXPANDABLE BANDROLLS, AND WAISTBANDS AND GARMENTS WITH SAME**

[54] **BANDES DE TRIPLURE EXTENSIBLES, DRAINANTES ET ABSORBANTES, CEINTURES MONTEES ET VETEMENTS COMPRENANT CELLES-CI**

[72] ROUP, HERMAN, US
[72] NIELDS, THOMAS, US
[71] TALON TECHNOLOGIES, INC., US

[85] 2021-05-17
[86] 2019-11-16 (PCT/IB2019/059858)
[87] (WO2020/115588)
[30] US (62/775,841) 2018-12-05
[30] US (16/574,749) 2019-09-18

PCT Applications Entering the National Phase

[21] **3,120,233**
[13] A1

[51] **Int.Cl. A61K 47/44 (2017.01) A61K 9/107 (2006.01) A61K 47/10 (2017.01) A61P 31/02 (2006.01) B01F 3/08 (2006.01)**

[25] EN

[54] **STABILIZED OIL-IN-WATER EMULSION**

[54] **EMULSION HUILE DANS L'EAU STABILISEE**

[72] ENGBLOM, JOHAN, SE
[72] ALI, ABDULLAH, SE
[72] WAHLGREN, MARIE, SE
[72] ANDERSON, CHRISTOPHER, SE
[72] SJOO, MALIN, SE
[71] ENGBLOM, JOHAN, SE
[71] ALI, ABDULLAH, SE
[71] WAHLGREN, MARIE, SE
[71] ANDERSON, CHRISTOPHER, SE
[85] 2021-05-17
[86] 2019-11-20 (PCT/EP2019/081982)
[87] (WO2020/104553)
[30] EP (18207348.6) 2018-11-20

[21] **3,120,234**
[13] A1

[51] **Int.Cl. G05B 19/4099 (2006.01) G01N 1/44 (2006.01) B22F 3/105 (2006.01) B22F 3/11 (2006.01) B22F 3/12 (2006.01) B22F 5/00 (2006.01) B22F 5/10 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURE AND PREDICTING POWDER DEGRADATION IN AN ADDITIVE MANUFACTURING PROCESS**

[54] **PROCEDE DE FABRICATION ET DE PREDICTION D'UNE DEGRADATION DE POUDRE LORS D'UN PROCESSUS DE FABRICATION ADDITIVE**

[72] FERRAR, BEN, GB
[71] LPW TECHNOLOGY LIMITED, GB
[85] 2021-05-17
[86] 2018-11-23 (PCT/GB2018/053386)
[87] (WO2019/102203)
[30] GB (1719436.6) 2017-11-23
[30] GB (1811226.8) 2018-07-09

[21] **3,120,235**
[13] A1

[51] **Int.Cl. C07H 17/08 (2006.01) A61K 31/7048 (2006.01) A61P 31/04 (2006.01) C07H 1/00 (2006.01) C07H 15/18 (2006.01) C07H 15/26 (2006.01)**

[25] EN

[54] **C11-CYCLIC SUBSTITUTED 13-MEMBERED MACROLIDES AND USES THEREOF**

[54] **MACROLIDES A 13 CHAINONS A SUBSTITUTION CYCLIQUE EN C11 ET LEURS UTILISATIONS**

[72] CLARK, ROGER B., US
[72] ALM, RICHARD, US
[72] AUSTIN, WESLEY FRANCIS, US
[72] GONDI, VIJAYA, US
[72] HOGAN, PHILIP, US
[72] JEWETT, IVAN, US
[72] LAHIRI, SUSHMITA D., US
[72] LAWRENCE, JONATHAN F., US
[72] LI, XIBEN, US
[72] SHI, SHUHAO, US
[72] WANG, WENYING, US
[72] ICHIKAWA, YOSHITAKA, US
[72] MYERS, ANDREW G., US
[72] ZHANG, ZIYANG, US
[72] CARLSEN, PETER NIELS, US
[72] RAHMAN, MD. ATAUR, US
[71] ZIKANI THERAPEUTICS, INC., US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2021-05-14
[86] 2019-11-18 (PCT/US2019/062045)
[87] (WO2020/106636)
[30] US (62/769,413) 2018-11-19

[21] **3,120,236**
[13] A1

[51] **Int.Cl. C07K 14/765 (2006.01) A61K 38/00 (2006.01) C07K 14/475 (2006.01)**

[25] EN

[54] **GDF15 ANALOGS AND METHODS FOR USE IN DECREASING BODY WEIGHT AND/OR REDUCING FOOD INTAKE**

[54] **ANALOGUES DE GDF15 ET PROCEDES DESTINES A ETRE UTILISES POUR DIMINUER LE POIDS CORPOREL ET/OU REDUIRE L'INGESTION D'ALIMENTS**

[72] ZHENG, SONGMAO, US
[72] KIMKO, HOLLY, US
[72] HERMANN, ROBERT, CH
[72] FABBRINI, ELISA, US
[72] STOJANOVIC-SUSULIC, VEDRANA, US
[72] ROTHENBERG, PAUL, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2021-05-17
[86] 2019-11-19 (PCT/IB2019/059945)
[87] (WO2020/104948)
[30] US (62/769,675) 2018-11-20

[21] **3,120,237**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61K 9/08 (2006.01)**

[25] EN

[54] **SAFE AND EFFECTIVE METHOD OF TREATING PSORIASIS WITH ANTI-IL-23 SPECIFIC ANTIBODY**

[54] **PROCEDE SUR ET EFFICACE DE TRAITEMENT DU PSORIASIS AVEC UN ANTICORPS SPECIFIQUE ANTI-IL-23**

[72] ANGSANA, JULIANTY, US
[72] BRANIGAN, PATRICK, US
[72] DEPRIMO, SAMUEL, US
[72] FLAVIN, SUSAN, US
[72] LI, SHU, US
[72] LIU, XUEJUN, US
[72] MUNOZ, ERNESTO, US
[72] RANDAZZO, BRUCE, US
[71] JANSSEN BIOTECH, INC., US
[85] 2021-05-17
[86] 2019-11-19 (PCT/IB2019/059939)
[87] (WO2020/104943)
[30] US (62/769,889) 2018-11-20
[30] US (62/796,673) 2019-01-25
[30] US (62/810,617) 2019-02-26
[30] US (62/817,711) 2019-03-13
[30] US (62/915,115) 2019-10-15

Demandes PCT entrant en phase nationale

[21] **3,120,238**
[13] A1

[51] **Int.Cl. E04F 15/02 (2006.01) B27F 1/06 (2006.01) B32B 21/00 (2006.01)**

[25] EN

[54] **PANEL AND METHOD FOR MANUFACTURING SUCH A PANEL**

[54] **PANNEAU ET PROCEDE DE FABRICATION D'UN TEL PANNEAU**

[72] SCHACHT, BENNY, BE

[72] DE RICK, JAN, BE

[71] FLOORING INDUSTRIES LIMITED, SARL, LU

[85] 2021-05-17

[86] 2019-11-25 (PCT/IB2019/060116)

[87] (WO2020/109961)

[30] BE (2018/5830) 2018-11-27

[30] US (62/862,850) 2019-06-18

[30] DE (20 2019 103 690.7) 2019-07-04

[21] **3,120,239**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 35/08 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR MICRODROPLET DETECTION OF CELLS**

[54] **DISPOSITIF ET PROCEDE DE DETECTION DE MICROGOUTTELETTES DE CELLULES**

[72] ISAAC, TOM, GB

[72] FRAYLING, CAMERON, GB

[71] LIGHTCAST DISCOVERY LTD, GB

[85] 2021-05-17

[86] 2019-11-08 (PCT/GB2019/053168)

[87] (WO2020/104769)

[30] EP (18207377.5) 2018-11-20

[30] EP (18207379.1) 2018-11-20

[30] GB (1909514.0) 2019-07-02

[21] **3,120,240**
[13] A1

[51] **Int.Cl. C07D 249/12 (2006.01) A61K 31/4196 (2006.01) A61K 31/4439 (2006.01) A61K 31/4709 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) C07D 401/04 (2006.01) C07D 401/10 (2006.01) C07D 401/14 (2006.01) C07D 403/04 (2006.01)**

[25] EN

[54] **3,3-DIFLUOROALLYLAMINES OR SALTS THEREOF AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME**

[54] **3,3-DIFLUOROALLYLAMINES OU LEURS SELS ET COMPOSITIONS PHARMACEUTIQUES LES COMPRENANT**

[72] HAN, TAE DONG, KR

[72] TAK, HEE JAE, KR

[72] KIM, EUN KYUNG, KR

[72] LEE, EUI CHUL, KR

[72] PARK, SOL, KR

[72] CHO, HYOK JUN, KR

[72] LIM, CHEOL HEE, KR

[72] KIM, SO YOUNG, KR

[72] CHOI, HYUN HO, KR

[72] JEONG, DA NA, KR

[72] YANG, NA YEON, KR

[72] HA, NA RY, KR

[71] YUHAN CORPORATION, KR

[85] 2021-05-17

[86] 2019-12-12 (PCT/IB2019/060736)

[87] (WO2020/121261)

[30] KR (10-2018-0161725) 2018-12-14

[30] KR (10-2019-0137387) 2019-10-31

[21] **3,120,241**
[13] A1

[51] **Int.Cl. A61K 8/33 (2006.01) A61K 8/34 (2006.01) A61K 8/365 (2006.01) A61K 8/368 (2006.01) A61K 8/37 (2006.01) A61K 8/39 (2006.01) A61K 8/42 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61K 8/60 (2006.01) A61K 8/81 (2006.01) A61K 8/86 (2006.01) A61K 8/92 (2006.01) A61Q 19/10 (2006.01)**

[25] EN

[54] **PERSONAL CARE COMPOSITIONS**

[54] **COMPOSITIONS DE SOINS PERSONNELS**

[72] PARKER, JODIE, US

[72] JHA, BRAJESH, US

[72] ALVERADO, EMMA, US

[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2021-05-17

[86] 2018-12-14 (PCT/US2018/065626)

[87] (WO2020/122932)

[21] **3,120,243**
[13] A1

[51] **Int.Cl. C12M 3/00 (2006.01) B01L 3/00 (2006.01) C12M 1/00 (2006.01) C12M 1/04 (2006.01) C12M 1/12 (2006.01) C12N 1/04 (2006.01)**

[25] EN

[54] **BIOLOGICAL FLUIDIC SYSTEM**

[54] **SYSTEME FLUIDIQUE BIOLOGIQUE**

[72] GOME, GILAD BINYAMIN, IL

[72] WALD, IDDO YEHOSHUA, IL

[72] GRISHKO, ANDREY, IL

[71] THE INTERDISCIPLINARY CENTER HERZLIYA PROJECTS LTD., IL

[85] 2021-05-17

[86] 2019-11-19 (PCT/IL2019/051264)

[87] (WO2020/105044)

[30] IL (263127) 2018-11-19

PCT Applications Entering the National Phase

[21] **3,120,244**
[13] A1

[51] **Int.Cl. G01S 7/521 (2006.01) G08C 15/02 (2006.01) G10K 11/00 (2006.01) H04B 3/56 (2006.01) H04L 5/06 (2006.01)**

[25] EN

[54] **SIGNAL MULTIPLEXER FOR SONAR**

[54] **MULTIPLEXEUR DE SIGNAUX POUR SONAR**

[72] CORBEL, PHILIPPE, FR

[71] THALES, FR

[85] 2021-05-14

[86] 2019-11-15 (PCT/EP2019/081527)

[87] (WO2020/099655)

[30] FR (1871858) 2018-11-15

[21] **3,120,245**
[13] A1

[51] **Int.Cl. B62B 3/02 (2006.01)**

[25] EN

[54] **SHOPPING TROLLEY**

[54] **CHARIOT DE SUPERMARCHE**

[72] O'DONNELL, JEANNE LOUISE, AU

[72] KHOURY, EDWARD JOSEPH, AU

[72] KHOURY, ROSS, AU

[71] SHOPPACART PTY LTD, AU

[85] 2021-05-17

[86] 2019-11-22 (PCT/AU2019/051287)

[87] (WO2020/107061)

[30] AU (2018904492) 2018-11-26

[30] AU (2018904510) 2018-11-27

[30] AU (2019901845) 2019-05-29

[30] AU (2019903768) 2019-10-07

[21] **3,120,246**
[13] A1

[51] **Int.Cl. C07C 1/24 (2006.01) C07C 5/48 (2006.01) C07C 11/04 (2006.01) C07C 29/147 (2006.01) C07C 31/08 (2006.01)**

[25] EN

[54] **A PROCESS, A SYSTEM, AND AN APPARATUS FOR CATALYTIC CONVERSION OF AN OXIDATIVE DEHYDROGENATION PRODUCT TO AN ALCOHOL**

[54] **PROCEDE, SYSTEME ET APPAREIL DE CONVERSION CATALYTIQUE D'UN PRODUIT DE DESHYDROGENATION OXYDANTE EN ALCOOL**

[72] GOODARZANIA, SHAHIN, CA

[72] SIMANZHENKOV, VASILY, CA

[72] OLAYIWOLA, BOLAJI, CA

[72] STYLES, YIPEI, CA

[71] NOVA CHEMICALS CORPORATION, CA

[85] 2021-05-17

[86] 2019-12-20 (PCT/IB2019/061210)

[87] (WO2020/141395)

[30] US (62/788,252) 2019-01-04

[21] **3,120,247**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 72/12 (2009.01) H04B 7/08 (2006.01)**

[25] EN

[54] **DEFAULT BEAM SELECTION BASED ON A SUBSET OF CORESETS**

[54] **SELECTION DE FAISCEAU PAR DEFAUT SUR LA BASE D'UN SOUS-ENSEMBLE DE CORESETS**

[72] ZHOU, YAN, US

[72] LUO, TAO, US

[72] NAM, WOOSEOK, US

[72] JOHN WILSON, MAKESH PRAVIN, US

[72] YERRAMALLI, SRINIVAS, US

[72] ZHANG, XIAOXIA, US

[72] SUN, JING, US

[72] CHENDAMARAI KANNAN, ARUMUGAM, US

[71] QUALCOMM INCORPORATED, US

[85] 2021-05-17

[86] 2019-10-25 (PCT/US2019/058211)

[87] (WO2020/123046)

[30] US (62/780,175) 2018-12-14

[30] US (16/662,766) 2019-10-24

[21] **3,120,248**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/22 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND USES OF VASOACTIVE INTESTINAL PEPTIDE (VIP) ANTAGONISTS**

[54] **COMPOSITIONS ET UTILISATIONS D'ANTAGONISTES DE PEPTIDE INTESTINAL VASOACTIF (VIP)**

[72] WALLER, EDMUND K., US

[72] LI, YIWEN, US

[72] RAVINDRANATHAN, SRUTHI, US

[72] LI, JIAN-MING, US

[71] EMORY UNIVERSITY, US

[85] 2021-05-14

[86] 2019-11-15 (PCT/US2019/061760)

[87] (WO2020/102694)

[30] US (62/768,060) 2018-11-15

[21] **3,120,249**
[13] A1

[51] **Int.Cl. A24F 40/00 (2020.01) A24B 15/167 (2020.01) A24F 40/05 (2020.01) A24F 40/30 (2020.01)**

[25] EN

[54] **METHOD**

[54] **PROCEDE**

[72] BRUTON, CONNOR, GB

[72] AZZOPARDI, ANNA, GB

[72] CLAYTON, PETER, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2021-05-14

[86] 2019-11-15 (PCT/GB2019/053233)

[87] (WO2020/099880)

[30] GB (1818711.2) 2018-11-16

[21] **3,120,250**
[13] A1

[51] **Int.Cl. E06B 3/663 (2006.01) E06B 3/54 (2006.01) E06B 5/10 (2006.01) F41H 5/04 (2006.01) F41H 5/26 (2006.01)**

[25] EN

[54] **FRAME ASSEMBLY**

[54] **ENSEMBLE CADRE**

[72] JOHN, ZUCKER, GB

[72] ANDREW, NEW, GB

[72] ADRIAN, TOON, GB

[72] JOHN, BRADES, GB

[71] JOHN, ZUCKER, GB

[71] JOHN, BRADES, GB

[85] 2021-05-17

[86] 2019-11-15 (PCT/GB2019/053234)

[87] (WO2020/104773)

[30] GB (1818966.2) 2018-11-21

Demandes PCT entrant en phase nationale

[21] **3,120,251**
[13] A1

[51] **Int.Cl. C07F 7/24 (2006.01) H01L 31/032 (2006.01) H01L 31/036 (2006.01) H01L 31/0392 (2006.01) H01L 31/18 (2006.01)**

[25] EN

[54] **ENHANCED PEROVSKITE MATERIALS FOR PHOTOVOLTAIC DEVICES**

[54] **MATERIAUX A BASE DE PEROVSKITE AMELIORES POUR DISPOSITIFS PHOTOVOLTAIQUES**

[72] IRWIN, MICHAEL D., US

[72] HOLLAND, MICHAEL, US

[72] ANDERSON, NICHOLAS, US

[71] HUNT PEROVSKITE TECHNOLOGIES, L.L.C., US

[85] 2021-05-17

[86] 2019-11-08 (PCT/US2019/060410)

[87] (WO2020/106469)

[30] US (62/770,313) 2018-11-21

[30] US (16/665,831) 2019-10-28

[21] **3,120,253**
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01)**

[25] EN

[54] **LIVER-SPECIFIC REGULATORY NUCLEIC ACID SEQUENCES**

[54] **SEQUENCES D'ACIDES NUCLEIQUES REGULATRICES SPECIFIQUES DU FOIE**

[72] ROBERTS, MICHAEL, GB

[72] IGLESIAS, JUAN MANUEL, GB

[72] BAKER, KATIE, GB

[72] KIPPEN, NICOLLE, GB

[72] YANEZ-CUNA, JORGE OMAR, GB

[72] FRASER, ROSS, GB

[71] SYNPROMICS LIMITED, GB

[85] 2021-05-17

[86] 2019-11-19 (PCT/GB2019/053267)

[87] (WO2020/104782)

[30] GB (1818816.9) 2018-11-19

[21] **3,120,254**
[13] A1

[51] **Int.Cl. B01D 39/14 (2006.01) A61L 9/16 (2006.01) A01N 25/34 (2006.01) A01N 47/12 (2006.01) A01N 63/00 (2020.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01)**

[25] EN

[54] **FILTERING MATERIAL FOR AIR FILTERS AND METHOD FOR MANUFACTURING FILTERING MATERIAL FOR AIR FILTERS**

[54] **MATERIAU FILTRANT POUR FILTRES A AIR ET PROCEDE POUR LA FABRICATION DE MATERIAU FILTRANT POUR FILTRES A AIR**

[72] NARIYUKI, AKANE, JP

[72] ISHIDA, MITSUHIRO, JP

[72] NASHIDA, TOSHIYA, JP

[72] TOZUKA, KAORI, JP

[72] INA, KANAKO, JP

[71] NIKKI-UNIVERSAL CO., LTD., JP

[85] 2021-05-17

[86] 2019-08-02 (PCT/JP2019/030473)

[87] (WO2020/105227)

[30] JP (2018-219208) 2018-11-22

[30] JP (2018-219210) 2018-11-22

[21] **3,120,255**
[13] A1

[51] **Int.Cl. A61K 38/48 (2006.01) A61P 7/02 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **ANCROD FOR THE TREATMENT OR PROPHYLAXIS OF ENDOCARDITIS**

[54] **UTILISATION D'ANCROD POUR LE TRAITEMENT OU LA PROPHYLAXIE DE L'ENDOCARDITE**

[72] VERHAMME, PETER, BE

[72] LIESENBORGHS, LAURENS, BE

[71] NORDMARK IP GMBH, DE

[85] 2021-05-17

[86] 2019-11-18 (PCT/EP2019/081651)

[87] (WO2020/104373)

[30] DE (10 2018 129 005.5) 2018-11-19

[30] DE (10 2019 106 408.2) 2019-03-13

[21] **3,120,256**
[13] A1

[51] **Int.Cl. A47C 19/04 (2006.01) A47C 21/04 (2006.01) A47D 7/03 (2006.01)**

[25] EN

[54] **AUTOMATED BED OR BABY COT**

[54] **LIT OU LIT DE BEBE AUTOMATISE**

[72] OLUFESO, CHRIS, AU

[71] INSIGHT AND INREACH (ISNIR) PTY LTD, AU

[85] 2021-05-17

[86] 2019-12-13 (PCT/GB2019/053553)

[87] (WO2020/120993)

[30] GB (1820367.9) 2018-12-13

[21] **3,120,258**
[13] A1

[51] **Int.Cl. C07F 7/24 (2006.01) H01L 31/032 (2006.01) H01L 31/036 (2006.01) H01L 31/0392 (2006.01) H01L 31/18 (2006.01)**

[25] EN

[54] **ENHANCED PEROVSKITE MATERIALS FOR PHOTOVOLTAIC DEVICES**

[54] **MATERIAUX A BASE DE PEROVSKITE AMELIORES POUR DISPOSITIFS PHOTOVOLTAIQUES**

[72] IRWIN, MICHAEL D., US

[72] HOLLAND, MICHAEL, US

[72] ANDERSON, NICHOLAS, US

[71] HUNT PEROVSKITE TECHNOLOGIES, L.L.C., US

[85] 2021-05-17

[86] 2019-11-08 (PCT/US2019/060405)

[87] (WO2020/106468)

[30] US (62/770,313) 2018-11-21

[30] US (16/665,815) 2019-10-28

PCT Applications Entering the National Phase

[21] **3,120,260**
[13] A1

[51] **Int.Cl. C04B 35/573 (2006.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B22F 3/00 (2021.01) C04B 35/52 (2006.01) C04B 35/56 (2006.01) F01D 5/12 (2006.01) G21C 3/28 (2006.01)**

[25] EN

[54] **ADDITIVE MANUFACTURING OF COMPLEX OBJECTS USING REFRACTORY MATRIX MATERIALS**

[54] **FABRICATION ADDITIVE D'OBJETS COMPLEXES UTILISANT DES MATERIAUX DE MATRICE REFRACTAIRE**

[72] TERRANI, KURT A., US
[72] TRAMMELL, MICHAEL P., US
[72] JOLLY, BRIAN C., US
[71] UT-BATTELLE, LLC, US
[85] 2021-05-17
[86] 2019-07-31 (PCT/US2019/044276)
[87] (WO2020/106334)
[30] US (62/769,588) 2018-11-20

[21] **3,120,262**
[13] A1

[51] **Int.Cl. C09D 5/08 (2006.01) C09D 5/44 (2006.01) C23C 18/16 (2006.01)**

[25] EN

[54] **SELECTIVE PLATING OF THREE DIMENSIONAL SURFACES TO PRODUCE DECORATIVE AND FUNCTIONAL EFFECTS**

[54] **PLACAGE SELECTIF DE SURFACES TRIDIMENSIONNELLES POUR PRODUIRE DES EFFETS DECORATIFS ET FONCTIONNELS**

[72] BRAY, PAUL A., GB
[72] HERBERT, MARTIN V., GB
[72] PARSONS, KEITH P., GB
[72] WARWICK, PETER A., GB
[71] MACDERMID ENTHONE INC., US
[85] 2021-05-17
[86] 2019-09-25 (PCT/US2019/052869)
[87] (WO2020/112224)
[30] US (16/201,092) 2018-11-27

[21] **3,120,264**
[13] A1

[51] **Int.Cl. B63B 3/26 (2006.01) B63B 3/00 (2006.01) B63B 3/13 (2006.01) B63B 3/14 (2006.01) B63B 3/32 (2006.01) B63B 3/34 (2006.01) B63B 3/36 (2006.01) B63G 8/00 (2006.01)**

[25] EN

[54] **LOAD-BEARING FRAME STRUCTURE FOR MARITIME VEHICLES**

[54] **STRUCTURE DE CADRE PORTEUR POUR VEHICULES MARITIMES**

[72] SGOBBO, JERROLD N., US
[72] RAYMOND, TIMOTHY G., US
[72] RUSSO, SAMUEL J., US
[72] LEBO, WILLAM T., US
[71] DIVE TECHNOLOGIES INC., US
[85] 2021-05-17
[86] 2019-11-06 (PCT/US2019/059985)
[87] (WO2020/106448)
[30] US (62/769,747) 2018-11-20

[21] **3,120,261**
[13] A1

[51] **Int.Cl. B01J 21/12 (2006.01) B01J 35/00 (2006.01) B01J 35/10 (2006.01) B01J 37/02 (2006.01) B01J 37/03 (2006.01) B01J 37/08 (2006.01)**

[25] EN

[54] **SILICA ALUMINA COMPOSITION WITH IMPROVED STABILITY AND METHOD FOR MAKING SAME**

[54] **COMPOSITION DE SILICE ALUMINE A STABILITE AMELIOREE, ET SON PROCEDE DE PREPARATION**

[72] RABAIOLI, MARIA ROBERTA, US
[72] CHAUDHARY, UMESH, US
[71] SASOL (USA) CORPORATION, US
[85] 2021-05-17
[86] 2019-11-20 (PCT/US2019/062408)
[87] (WO2020/106836)
[30] US (62/770,393) 2018-11-21
[30] US (62/888,120) 2019-08-16

[21] **3,120,263**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23L 13/00 (2016.01) A23L 13/40 (2016.01) A23L 35/00 (2016.01) A21D 13/31 (2017.01) A21D 13/38 (2017.01) A21D 2/18 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING FOOD**

[54] **PROCEDE DE PRODUCTION D'UN ALIMENT**

[72] KUBOTA, JUNPEI, JP
[72] ISHIKAWA, CHIHIRO, JP
[72] SAGARA, KOJI, JP
[72] IWABUCHI, KOJI, JP
[72] NAGAHATA, YUYA, JP
[72] SAITO, SANSHIRO, JP
[71] J-OIL MILLS, INC., JP
[85] 2021-05-17
[86] 2019-11-26 (PCT/JP2019/046164)
[87] (WO2020/111059)
[30] JP (2018-226092) 2018-11-30

Demandes PCT entrant en phase nationale

[21] **3,120,265**
[13] A1

[51] **Int.Cl. C07F 5/02 (2006.01) C07C 211/64 (2006.01) C08F 2/38 (2006.01) C08F 4/52 (2006.01) C08F 4/646 (2006.01) C08F 4/659 (2006.01) C08F 4/6592 (2006.01) C08F 110/02 (2006.01) C08F 210/16 (2006.01)**

[25] EN

[54] **NOVEL TETRAARYLBORATE COMPOUND, CATALYST COMPOSITION COMPRISING SAME, AND METHOD FOR PREPARING ETHYLENE HOMOPOLYMERS OR COPOLYMERS OF ETHYLENE AND A-OLEFIN BY USING SAME**

[54] **NOUVEAU COMPOSE DE TETRAARYLBORATE, COMPOSITION DE CATALYSEUR LE CONTENANT, ET PROCEDE DE PREPARATION D'HOMOPOLYMERES OU DE COPOLYMERES D'ETHYLENE ET D'ALPHA-OLEFINE L'UTILISANT**

[72] SHIN, DONGCHEOL, KR
[72] OH, YEONOCK, KR
[72] KIM, MIJI, KR
[71] SABIC SK NEXLENE COMPANY PTE. LTD., SG
[71] SABIC SK NEXLENE COMPANY PTE. LTD., SG
[85] 2021-05-17
[86] 2020-02-24 (PCT/IB2020/051519)
[87] (WO2020/174346)
[30] KR (10-2019-0024356) 2019-02-28
[30] KR (10-2020-0020828) 2020-02-20

[21] **3,120,267**
[13] A1

[51] **Int.Cl. B29C 31/08 (2006.01) B29C 48/09 (2019.01) B29C 33/42 (2006.01) B29C 43/56 (2006.01) B32B 3/02 (2006.01) B32B 3/30 (2006.01) E04B 5/43 (2006.01)**

[25] EN

[54] **FLOOR MATS AND METHODS OF PRODUCING THE SAME**

[54] **TAPIS DE SOL ET LEURS PROCEDES DE PRODUCTION**

[72] TRIMBLE, CRAIG, US
[72] JENKINS, JOEY, US
[72] EDWARDS, SHAWN, US
[72] LAWSON, ANTHONY, US
[72] SANCHEZ-CAMARILLO, FRANCO, US
[72] BROWN, ANDREW, US
[71] ALADDIN MANUFACTURING CORPORATION, US
[85] 2021-05-17
[86] 2019-11-12 (PCT/US2019/060888)
[87] (WO2020/123072)
[30] US (62/779,939) 2018-12-14
[30] EP (19152445.3) 2019-01-18

[21] **3,120,268**
[13] A1

[51] **Int.Cl. A61K 31/4427 (2006.01) A61K 31/4439 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61K 31/506 (2006.01) A61P 25/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01)**

[25] EN

[54] **HETEROCYCLIC DERIVATIVES AS NAV1.7 AND NAV1.8 BLOCKERS**

[54] **DERIVES HETEROCYCLIQUES UTILISES EN TANT QUE BLOQUEURS NAV1.7 ET NAV1.8**

[72] YAMAGISHI, TATSUYA, JP
[72] KAWAMURA, KIYOSHI, JP
[72] SHISHIDO, YUJI, JP
[72] YAMAGUCHI, RYUICHI, JP
[72] MORITA, MIKIO, JP
[72] GAJA, NORIKAZU, JP
[71] RAQUALIA PHARMA INC., JP
[85] 2021-05-17
[86] 2019-12-26 (PCT/JP2019/051086)
[87] (WO2020/138271)
[30] US (62/784,881) 2018-12-26

[21] **3,120,271**
[13] A1

[51] **Int.Cl. C22C 38/58 (2006.01) C21D 8/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01)**

[25] EN

[54] **HIGH-STRENGTH STEEL PLATE HAVING EXCELLENT LOW-TEMPERATURE FRACTURE TOUGHNESS AND ELONGATION RATIO, AND MANUFACTURING METHOD THEREFOR**

[54] **PLAQUE D'ACIER A HAUTE RESISTANCE AYANT UN EXCELLENT RAPPORT DE TENACITE A LA RUPTURE ET D'ALLONGEMENT A BASSE TEMPERATURE ET PROCEDE DE FABRICATION ASSOCIE**

[72] YOO, JANG-YONG, KR
[72] BAE, MOO-JONG, KR
[72] PARK, YOEN-JUNG, KR
[71] POSCO, KR
[85] 2021-05-17
[86] 2019-11-29 (PCT/KR2019/016785)
[87] (WO2020/111891)
[30] KR (10-2018-0151565) 2018-11-30

[21] **3,120,272**
[13] A1

[51] **Int.Cl. B01D 53/32 (2006.01) H01M 8/0258 (2016.01) H01M 8/026 (2016.01) C25B 1/00 (2021.01) C25B 1/02 (2006.01) H01M 8/1018 (2016.01)**

[25] EN

[54] **CELL PLATE ASSEMBLY FOR A SOLID-STATE COMPRESSOR, SOLID-STATE COMPRESSOR AND METHOD FOR OPERATING A SOLID-STATE COMPRESSOR**

[54] **ENSEMBLE PLAQUE DE CELLULES POUR COMPRESSEUR A SEMI-CONDUCTEURS, COMPRESSEUR A SEMI-CONDUCTEURS ET PROCEDE DE FONCTIONNEMENT D'UN COMPRESSEUR A SEMI-CONDUCTEURS**

[72] RAYMAKERS, LEONARD, NL
[72] KONINK, JONNE, NL
[71] HYET HOLDING B.V., NL
[85] 2021-05-17
[86] 2019-11-21 (PCT/NL2019/050770)
[87] (WO2020/106152)
[30] NL (2022065) 2018-11-23

PCT Applications Entering the National Phase

[21] **3,120,273**
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01) G06F 3/048 (2013.01)**

[25] EN

[54] **ADAPTING A VIRTUAL REALITY EXPERIENCE FOR A USER BASED ON A MOOD IMPROVEMENT SCORE**

[54] **ADAPTATION D'UNE EXPERIENCE DE REALITE VIRTUELLE POUR UN UTILISATEUR SUR LA BASE D'UN SCORE D'AMELIORATION DE L'HUMEUR**

[72] REEVES, NANEVA, US
[72] NORMAN, ZACHARY, US
[72] DJOKOVIC, ANDREJA, US
[72] HANDLEY, STEPHEN, US
[72] KENNEDY, PETER, US
[72] BOTHWELL, SOLOMON, US
[72] HAN, HYOSUNG, US
[71] TRIPP, INC., US
[85] 2021-05-17
[86] 2019-11-18 (PCT/US2019/062076)
[87] (WO2020/106652)
[30] US (62/769,538) 2018-11-19
[30] US (16/687,419) 2019-11-18

[21] **3,120,274**
[13] A1

[51] **Int.Cl. C25B 15/02 (2021.01)**

[25] EN

[54] **SOLID-STATE COMPRESSOR AND METHOD FOR PROVIDING COUNTER PRESSURE ON A SOLID-STATE COMPRESSOR CELL STACK**

[54] **COMPRESSEUR A SEMI-CONDUCTEURS ET PROCEDE DE FOURNITURE D'UNE CONTREPRESSION SUR UN EMPILEMENT DE CELLULES DE COMPRESSEUR A SEMI-CONDUCTEURS**

[72] BOS, ALBERT, NL
[72] SWANBORN, ROMBOUT ADRIAAN, NL
[71] HYET HOLDING B.V., NL
[85] 2021-05-17
[86] 2019-11-21 (PCT/NL2019/050771)
[87] (WO2020/106153)
[30] NL (2022067) 2018-11-23

[21] **3,120,276**
[13] A1

[51] **Int.Cl. B01D 39/16 (2006.01) C12N 5/074 (2010.01)**

[25] EN

[54] **MEMBRANE FOR SEPARATION OF STEM CELLS FROM BIOLOGICAL SAMPLES, PRODUCTION PROCESS OF SAID MEMBRANE, AND PROCESS AND DEVICE FOR SEPARATION, COMPRISING SAID MEMBRANE**

[54] **MEMBRANE POUR LA SEPARATION DE CELLULES SOUCHES D'ECHANTILLONS BIOLOGIQUES, PROCESSUS DE PRODUCTION DE LADITE MEMBRANE, ET PROCESSUS ET DISPOSITIF DE SEPARATION, COMPRENANT LADITE MEMBRANE**

[72] ARKO, ZORAN, SI
[72] TOFANT, TADEJ, SI
[72] SIMONCIC, BORIS, SI
[72] MAVER, UROS, SI
[72] MAVER, TINA, SI
[72] GOLE, BORIS, SI
[72] POTOČNIK, UROS, SI
[72] ZIDARIC, TANJA, SI
[71] BIO-RECELL LTD., GB
[85] 2021-05-17
[86] 2018-12-20 (PCT/SI2018/050035)
[87] (WO2020/130949)

[21] **3,120,277**
[13] A1

[51] **Int.Cl. H01M 16/00 (2006.01) H01M 8/026 (2016.01) H01M 8/0662 (2016.01) H01M 8/248 (2016.01) B01D 53/22 (2006.01) H01M 8/0267 (2016.01) H01M 8/1018 (2016.01)**

[25] EN

[54] **FLOW FIELD PLATE AND COMPRESSOR COMPRISING SUCH PLATE**

[54] **PLAQUE DE CHAMP D'ECOULEMENT ET COMPRESSEUR COMPRENANT UNE TELLE PLAQUE**

[72] KONINK, JONNE, NL
[71] HYET HOLDING B.V., NL
[85] 2021-05-17
[86] 2019-11-21 (PCT/NL2019/050772)
[87] (WO2020/145815)
[30] NL (2022354) 2019-01-08

[21] **3,120,278**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) H04B 7/204 (2006.01)**

[25] EN

[54] **SATELLITE COMMUNICATION SYSTEM AND METHOD FOR POINTING ERROR RESISTENT REUSE**

[54] **SYSTEME ET PROCEDE DE COMMUNICATION PAR SATELLITE POUR MISE EN EVIDENCE DE REUTILISATION DE RESISTANCE AUX ERREURS**

[72] KAY, STANLEY EDWARD, US
[72] CHEN, LIPING, US
[72] BHASKAR, UDAY RAMACHANDRA RAO, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2021-05-17
[86] 2019-11-17 (PCT/US2019/061901)
[87] (WO2020/102789)
[30] US (16/194,338) 2018-11-17

[21] **3,120,279**
[13] A1

[51] **Int.Cl. B61L 5/10 (2006.01) B61L 15/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR VEHICLE-BASED SWITCH LOCKING IN A RAIL NETWORK**

[54] **PROCEDE ET APPAREIL DESTINES AU VERROUILLAGE D'AIGUILLAGE BASE SUR UN VEHICULE DANS UN RESEAU FERROVIAIRE**

[72] KERNWEIN, JEFFREY D., US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[85] 2021-05-17
[86] 2019-04-30 (PCT/US2019/029782)
[87] (WO2020/112165)
[30] US (16/206,674) 2018-11-30

Demandes PCT entrant en phase nationale

[21] **3,120,280**
[13] A1

[51] **Int.Cl. G06N 10/00 (2019.01) G06N 99/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS INVOLVING HYBRID QUANTUM MACHINES, ASPECTS OF QUANTUM INFORMATION TECHNOLOGY AND/OR OTHER FEATURES**
[54] **SYSTEMES ET PROCEDES FAISANT INTERVENIR DES MACHINES QUANTIQUES HYBRIDES, DES ASPECTS DE LA TECHNOLOGIE D'INFORMATIONS QUANTIQUES ET/OU D'AUTRES CARACTERISTIQUES**
[72] GESEK, GEORG, US
[71] QMWARE AG, CH
[85] 2021-05-17
[86] 2019-11-19 (PCT/US2019/062299)
[87] (WO2020/106777)
[30] US (62/769,455) 2018-11-19

[21] **3,120,281**
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01) G06K 9/62 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FACILITATING CLONE SELECTION**
[54] **SYSTEMES ET PROCEDES POUR FACILITER LA SELECTION DE CLONES**
[72] YUAN, YU, US
[72] MILNE, GRAHAM F., US
[72] WANG, TONY Y., US
[72] LE, KIM H., US
[72] TAN, GLENN, US
[71] AMGEN INC., US
[85] 2021-05-17
[86] 2019-11-26 (PCT/US2019/063177)
[87] (WO2020/112723)
[30] US (62/774,154) 2018-11-30

[21] **3,120,282**
[13] A1

[51] **Int.Cl. C12N 15/88 (2006.01)**
[25] EN
[54] **FUSOSOME COMPOSITIONS FOR HEMATOPOIETIC STEM CELL DELIVERY**
[54] **COMPOSITIONS DE FUSOSOMES POUR L'APPORT DE CELLULES SOUCHES HEMATOPOIETIQUES**
[72] VON MALTZAHN, GEOFFREY A., US
[72] RUBENS, JACOB ROSENBLUM, US
[72] SHAH, JAGESH VIJAYKUMAR, US
[72] RUZO MATIAS, ALBERT, US
[72] PUCCI, FERDINANDO, US
[72] MILWID, JOHN MILES, US
[72] MEE, MICHAEL TRAVIS, US
[72] GORDON, NEAL FRANCIS, US
[71] FLAGSHIP PIONEERING INNOVATIONS V, INC., US
[85] 2021-05-17
[86] 2019-11-14 (PCT/US2019/061389)
[87] (WO2020/102485)
[30] US (62/767,287) 2018-11-14
[30] US (62/900,040) 2019-09-13

[21] **3,120,284**
[13] A1

[51] **Int.Cl. G01R 33/483 (2006.01) A61B 5/00 (2006.01) A61B 5/05 (2021.01) A61B 5/055 (2006.01)**
[25] EN
[54] **A METHOD TO MEASURE TISSUE TEXTURE USING NMR SPECTROSCOPY WITH VOI LENGTH IN AN ANALYSIS DIRECTION DEFINED BY RECEIVER BANDWIDTH**
[54] **PROCEDE DE MESURE DE TEXTURE TISSULAIRE A L'AIDE D'UNE SPECTROSCOPIE PAR RESONANCE MAGNETIQUE NUCLEAIRE (RMN) AVEC UNE LONGUEUR DE VOLUME D'INTERET (VOI) DANS UNE DIRECTION D'ANAL YSE DEFINIE PAR UNE BANDE PASSANTE DE RECEPTEUR**
[72] JAMES, TIMOTHY W., US
[71] BIOPROTONICS, INC., US
[85] 2021-05-17
[86] 2019-11-20 (PCT/US2019/062435)
[87] (WO2020/106857)
[30] US (62/769,666) 2018-11-20

[21] **3,120,285**
[13] A1

[51] **Int.Cl. B65D 50/00 (2006.01) B65D 5/00 (2006.01) B65D 5/38 (2006.01) B65D 50/02 (2006.01)**
[25] EN
[54] **RESTRICTED ACCESS CONTAINER**
[54] **CONTENANT A ACCES RESTREINT**
[72] COOPER, JEREMY, US
[72] BUCK, JEREMIAH, US
[72] HANEY, TIMOTHY, US
[72] JOHNSON, ZACHARIAH, US
[71] WVC HOLDINGS, INC., US
[71] BUCK, JEREMIAH, US
[71] HANEY, TIMOTHY, US
[71] JOHNSON, ZACHARIAH, US
[85] 2021-05-17
[86] 2019-11-14 (PCT/US2019/061463)
[87] (WO2020/102522)
[30] US (62/767,960) 2018-11-15

[21] **3,120,286**
[13] A1

[51] **Int.Cl. G06K 7/10 (2006.01) G06Q 10/08 (2012.01) G08B 13/14 (2006.01)**
[25] EN
[54] **RADIOFREQUENCY IDENTIFICATION EQUIPPED MEDICAL CABINET SYSTEMS AND METHODS OF ASSEMBLY AND USE THEREOF**
[54] **SYSTEMES D'ARMOIRES MEDICALES EQUIPEES D'IDENTIFICATION PAR RADIOFREQUENCE ET LEURS PROCEDES D'ASSEMBLAGE ET D'UTILISATION**
[72] LEITERMANN, RICHARD EUGENE, US
[72] DAVIES, GRAHAM, US
[72] KIEFER, LEO, US
[72] ROHRBERG, LARS, US
[71] WAVEMARK, INC., US
[85] 2021-05-17
[86] 2019-11-20 (PCT/US2019/062452)
[87] (WO2020/106869)
[30] US (62/770,020) 2018-11-20
[30] US (16/688,953) 2019-11-19

PCT Applications Entering the National Phase

[21] **3,120,288**
[13] A1

[51] **Int.Cl. A61B 5/02 (2006.01)**
[25] EN
[54] **DEVICE NETWORKS FOR MODULATING NEURAL ACTIVITY**
[54] **RESEAUX DE DISPOSITIFS POUR MODULER L'ACTIVITE NEURONALE**
[72] CARMENA, JOSE M., US
[72] MAHARBIZ, MICHEL M., US
[72] NEELY, RYAN, US
[71] IOTA BIOSCIENCES, INC., US
[85] 2021-05-17
[86] 2019-12-04 (PCT/US2019/064523)
[87] (WO2020/117967)
[30] US (62/776,351) 2018-12-06

[21] **3,120,289**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01)**
[25] EN
[54] **RECOMBINANT VIRAL VECTORS AND NUCLEIC ACIDS FOR PRODUCING THE SAME**
[54] **VECTEURS VIRAUX RECOMBINANTS ET ACIDES NUCLEIQUES POUR LEUR PRODUCTION**
[72] THOMAS, DARBY, US
[72] DISMUKE, DAVID, US
[71] STRIDEBIO, INC., US
[85] 2021-05-17
[86] 2019-11-21 (PCT/US2019/062531)
[87] (WO2020/106916)
[30] US (62/770,202) 2018-11-21

[21] **3,120,290**
[13] A1

[51] **Int.Cl. A47F 5/08 (2006.01) A47B 96/06 (2006.01)**
[25] EN
[54] **WALL AND CEILING TRACK SYSTEMS FOR MOUNTING DEVICES**
[54] **SYSTEMES DE PISTE DE MUR ET DE PLAFOND POUR DISPOSITIFS DE MONTAGE**
[72] THRUSH, BRUCE, US
[71] THE PARALLAX GROUP INTERNATIONAL, LLC, US
[85] 2021-05-17
[86] 2019-11-15 (PCT/US2019/061835)
[87] (WO2020/102743)
[30] US (62/768,362) 2018-11-16

[21] **3,120,291**
[13] A1

[51] **Int.Cl. G05D 1/00 (2006.01) B64C 39/02 (2006.01) G01C 11/02 (2006.01) G01C 15/00 (2006.01) G01S 17/00 (2020.01)**
[25] EN
[54] **NAVIGATING UNMANNED AIRCRAFT USING PITCH**
[54] **NAVIGATION D'AERONEF SANS PILOTE A L'AIDE DE TANGAGE**
[72] GIUFFRIDA, FRANK D., US
[72] FINN, MATTHEW, US
[72] WALLACE, GLENN, US
[71] EAGLE VIEW TECHNOLOGIES, INC., US
[85] 2021-05-17
[86] 2019-11-21 (PCT/US2019/062660)
[87] (WO2020/106984)
[30] US (62/770,570) 2018-11-21

[21] **3,120,294**
[13] A1

[51] **Int.Cl. G01S 13/50 (2006.01) G01S 13/89 (2006.01) G01S 13/931 (2020.01) G01S 7/03 (2006.01) G01S 7/35 (2006.01) G01S 13/02 (2006.01) G01S 13/56 (2006.01) G01S 13/58 (2006.01) G01S 13/90 (2006.01)**
[25] EN
[54] **OBJECT SENSING FROM A POTENTIALLY MOVING FRAME OF REFERENCE WITH VIRTUAL APERTURES FORMED FROM SPARSE ANTENNA ARRAYS**
[54] **DETECTION D'OBJETS CONTENUS DANS UN CADRE DE REFERENCE POTENTIELLEMENT MOBILE AVEC DES OUVERTURES VIRTUELLES FORMEES A PARTIR DE RESEAUX D'ANTENNES CLAIRSEMES**
[72] CATTLE, BRYAN, US
[72] MAHAL, JASMIN A., US
[72] JOHNSTON, JEREMY, US
[71] KMB TELEMATICS, INC., US
[85] 2021-05-17
[86] 2019-11-20 (PCT/US2019/062424)
[87] (WO2020/106849)
[30] US (62/769,824) 2018-11-20
[30] US (16/688,282) 2019-11-19

[21] **3,120,295**
[13] A1

[51] **Int.Cl. A23L 5/20 (2016.01) A23L 33/115 (2016.01) C11B 3/14 (2006.01)**
[25] EN
[54] **POLYUNSATURATED FATTY ACID CONTAINING FOOD INGREDIENT WITH ENHANCED PALATABILITY AND METHOD FOR MANUFACTURING THE SAME**
[54] **INGREDIENT ALIMENTAIRE CONTENANT UN ACIDE GRAS POLYINSATURE PRESENTANT UNE MEILLEURE PALATABILITE ET PROCEDE DE FABRICATION ASSOCIE**
[72] MACGILLIVRAY, TANYA FRANCIS, US
[72] MAY, JENNIFER YVONNE, US
[72] STEFANSKI, MICHAEL L., US
[72] TABAYEHNEJAD, NASRIN, US
[72] WILSON, JONATHAN WESLEY, US
[72] KASSNER, STEPHANE LANOUE, US
[71] DSM IP ASSETS B.V., NL
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-05-17
[86] 2019-12-13 (PCT/US2019/066265)
[87] (WO2020/123965)
[30] US (62/779,660) 2018-12-14

[21] **3,120,296**
[13] A1

[51] **Int.Cl. A61N 1/37 (2006.01) A61N 1/372 (2006.01) A61N 1/378 (2006.01)**
[25] EN
[54] **ULTRASOUND-BASED PROTOCOL FOR OPERATING AN IMPLANTABLE DEVICE**
[54] **PROTOCOLE A BASE D'ULTRASON PERMETTANT DE FAIRE FONCTIONNER UN DISPOSITIF IMPLANTABLE**
[72] MAHARBIZ, MICHEL M., US
[72] KAY, JOSHUA, US
[72] CARMENA, JOSE M., US
[71] IOTA BIOSCIENCES, INC., US
[85] 2021-05-17
[86] 2020-01-03 (PCT/US2020/012246)
[87] (WO2020/142732)
[30] US (62/788,390) 2019-01-04

Demandes PCT entrant en phase nationale

[21] **3,120,299**
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01)**
[25] EN
[54] **IN-SEASON FIELD LEVEL YIELD FORECASTING**
[54] **PREVISION DE RENDEMENT AU NIVEAU DU CHAMP EN SAISON**
[72] CHEN, YAQI, US
[72] JOHANNESSON, GARDAR, US
[72] GUAN, WEI, US
[71] THE CLIMATE CORPORATION, US
[85] 2021-05-17
[86] 2019-12-23 (PCT/US2019/068306)
[87] (WO2020/132674)
[30] US (62/784,252) 2018-12-21

[21] **3,120,301**
[13] A1

[51] **Int.Cl. B31B 70/81 (2017.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SECURING A ZIPPER CLOSURE TO POLYMERIC FILM**
[54] **APPAREIL ET PROCEDE POUR FIXER UNE FERMETURE A GLISSIERE A UN FILM POLYMERE**
[72] SOLLER, CRAIG, US
[72] CHAPEK, CARLOS, US
[72] THOMPSON, ZACHARY, US
[72] WELLS, AARON, US
[72] HECKMAN, GREGORY, US
[71] REYNOLDS PRESTO PRODUCTS INC., US
[85] 2021-05-17
[86] 2020-01-10 (PCT/US2020/013132)
[87] (WO2020/150101)
[30] US (16/252,070) 2019-01-18

[21] **3,120,303**
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PARTITIONING A VIDEO FEED TO SEGMENT LIVE PLAYER ACTIVITY**
[54] **SYSTEMES ET PROCEDES POUR DIVISER UN FLUX VIDEO AFIN DE SEGMENTER UNE ACTIVITE DE JOUEUR EN DIRECT**
[72] SCHWARTZ, ERIK, US
[72] NAQUIN, MICHAEL, US
[72] BROWN, CHRISTOPHER, US
[72] KING, STEVE, US
[72] CZARNECKI, PAWEL, US
[72] EBERSOL, CHARLES D., US
[71] TEMPUS EX MACHINA, INC., US
[85] 2021-05-17
[86] 2020-01-21 (PCT/US2020/014452)
[87] (WO2020/154309)
[30] US (62/795,020) 2019-01-22
[30] US (62/802,186) 2019-02-06
[30] US (16/747,440) 2020-01-20

[21] **3,120,320**
[13] A1

[51] **Int.Cl. A61B 1/12 (2006.01) A61B 1/005 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS AND METHODS FOR CLEANING OF ELONGATED INSTRUMENT SURFACE**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE NETTOYAGE D'UNE SURFACE D'INSTRUMENT ALLONGE**
[72] RYLANDER, CHRISTOPHER, US
[72] IDELSON, CHRISTOPHER, US
[72] UECKER, JOHN, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[71] ASCENSION TEXAS, US
[85] 2021-05-17
[86] 2019-11-26 (PCT/US2019/063369)
[87] (WO2020/112852)
[30] US (62/773,060) 2018-11-29

[21] **3,120,321**
[13] A1

[51] **Int.Cl. A61B 5/25 (2021.01) A61B 5/30 (2021.01) A61B 5/316 (2021.01) A61B 5/00 (2006.01)**
[25] EN
[54] **CONTACTLESS ELECTRODE FOR SENSING PHYSIOLOGICAL ELECTRICAL ACTIVITY**
[54] **ELECTRODE SANS CONTACT DE DETECTION D'ACTIVITE ELECTRIQUE PHYSIOLOGIQUE**
[72] MOGHADDAMBAGHERI, ALIREZA, CA
[71] EASYG LLC, US
[85] 2021-05-17
[86] 2019-11-26 (PCT/US2019/063403)
[87] (WO2020/112871)
[30] US (62/772,242) 2018-11-28

[21] **3,120,322**
[13] A1

[51] **Int.Cl. H04L 12/24 (2006.01)**
[25] EN
[54] **HYBRID ADAPTIVE NETWORKS**
[54] **RESEAUX ADAPTATIFS HYBRIDES**
[72] MILLER, CRAIG A., US
[72] CALIGIURI, MEREDITH L., US
[72] VANDERMEULEN, RICHARD A., US
[71] VIASAT, INC., US
[85] 2021-05-17
[86] 2019-11-26 (PCT/US2019/063438)
[87] (WO2020/112897)
[30] US (62/772,402) 2018-11-28
[30] US (62/822,666) 2019-03-22

PCT Applications Entering the National Phase

[21] **3,120,323**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 35/28 (2015.01) A61K 38/17 (2006.01) A61K 39/395 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **MARROW INFILTRATING LYMPHOCYTES (MILS) EXPRESSING CHIMERIC ANTIGEN RECEPTORS (CAR), METHOD OF MANUFACTURING SAME, AND METHOD OF USING IN THERAPY**

[54] **LYMPHOCYTES INFILTRANT LA MOELLE (MIL) EXPRIMANT DES RECEPTEURS CHIMERIQUES DE L'ANTIGENE (CAR), LEURS METHODES DE FABRICATION ET METHODE D'UTILISATION EN THERAPIE**

[72] NOONAN, KIMBERLY A., US
[72] BORRELLO, IVAN, US
[72] LUTZ, ERIC R., US
[72] RUDRARAJU, LAKSHMI, US
[72] JANA, SRIKANTA, US
[72] WEISS, IDO, US
[72] HOYOS, VALENTINA, US
[71] WINDMIL THERAPEUTICS, INC., US

[85] 2021-05-17
[86] 2019-11-27 (PCT/US2019/063605)
[87] (WO2020/113000)
[30] US (62/773,384) 2018-11-30
[30] US (62/828,592) 2019-04-03
[30] US (62/930,886) 2019-11-05

[21] **3,120,324**
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) C07K 14/15 (2006.01) C07K 14/155 (2006.01)**

[25] EN

[54] **HIV VACCINE IMMUNOGENS**

[54] **IMMUNOGENES DE VACCIN CONTRE LE VIH**

[72] NUSSENZWEIG, MICHEL, US
[72] BJORKMAN, PAMELA J., US
[72] ESCOLANO, AMELIA, US
[72] GRISTICK, HARRY, US
[71] THE ROCKEFELLER UNIVERSITY, US

[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US

[85] 2021-05-17
[86] 2019-11-27 (PCT/US2019/063619)
[87] (WO2020/117590)
[30] US (62/775,192) 2018-12-04

[21] **3,120,325**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 1/00 (2006.01) A61M 1/04 (2006.01) A61M 39/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR TREATING TENSION PNEUMOTHORAX USING A RAPID DEPLOYMENT CHEST PORT**

[54] **PROCEDE ET APPAREIL POUR TRAITER UN PNEUMOTHORAX SOUS TENSION A L'AIDE D'UN ACCES A DEPLOIEMENT RAPIDE A LA POITRINE**

[72] LUTTRELL, RYAN, US
[72] SMITH, ALLEN CARMICHAEL, US
[72] SMITH, BYRON, US
[72] SPRINGS, CHRISTEN, US
[71] QUICK TUBE MEDICAL, LLC, US

[85] 2021-05-17
[86] 2019-11-29 (PCT/US2019/063848)
[87] (WO2020/113159)
[30] US (62/773,765) 2018-11-30

[21] **3,120,326**
[13] A1

[51] **Int.Cl. A61B 17/12 (2006.01)**

[25] EN

[54] **PASSING TENSION MEMBER AROUND TISSUE MASS**

[54] **PASSAGE D'UN ELEMENT DE TENSION AUTOUR D'UNE MASSE TISSULAIRE**

[72] TAL, MICHAEL GABRIEL, IL
[72] MAGNAZI, GILAD, IL
[72] HENN, OHAD, IL
[71] EMPRESS MEDICAL, INC., US

[85] 2021-05-17
[86] 2019-12-02 (PCT/US2019/064030)
[87] (WO2020/117687)
[30] US (62/774,249) 2018-12-02
[30] US (16/539,800) 2019-08-13

[21] **3,120,327**
[13] A1

[51] **Int.Cl. A61K 38/05 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **MATRIX METALLOPROTEASE-CLEAVABLE AND SERINE OR CYSTEINE PROTEASE-CLEAVABLE SUBSTRATES AND METHODS OF USE THEREOF**

[54] **SUBSTRATS CLIVABLES PAR METALLOPROTEASE MATRICIELLE ET CLIVABLES PAR SERINE OU CYSTEINE PROTEASE ET PROCEDES D'UTILISATION DE CEUX-CI**

[72] VASILJEVA, OLGA, US
[72] WINTER, MICHAEL B., US
[71] CYTOMX THERAPEUTICS, INC., US

[85] 2021-05-17
[86] 2019-12-05 (PCT/US2019/064779)
[87] (WO2020/118109)
[30] US (62/776,409) 2018-12-06
[30] US (62/778,062) 2018-12-11

[21] **3,120,328**
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01)**

[25] EN

[54] **SELF-CONTAINED APPARATUS AND SYSTEM FOR DETECTING MICROORGANISMS**

[54] **APPAREIL AUTONOME ET SYSTEME DE DETECTION DE MICROORGANISMES**

[72] ERICKSON, STEPHEN E., US
[72] PAULSON, JOHN, US
[72] NGUYEN, MINH MINDY BAO, US
[72] GIL, JOSE S., US
[72] HAHN, WENDY, US
[72] ANDERSON, DWIGHT LYMAN, US
[72] STACH, JESSICA, US
[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US

[85] 2021-05-17
[86] 2019-12-10 (PCT/US2019/065528)
[87] (WO2020/123542)
[30] US (62/777,473) 2018-12-10
[30] US (62/798,980) 2019-01-30

Demandes PCT entrant en phase nationale

[21] **3,120,329**
[13] A1

[51] **Int.Cl. B32B 5/04 (2006.01) B65H 51/015 (2006.01) D01B 9/00 (2006.01) D01D 1/04 (2006.01) D01D 1/09 (2006.01) D02G 3/04 (2006.01) G01F 23/22 (2006.01)**

[25] EN

[54] **A METHOD TO PROVIDE MULTIFILAMENT BUNDLES OF MELT SPUN POLYMER FILAMENTS**

[54] **PROCEDE POUR FOURNIR DES FAISCEAUX MULTIFILAMENTAIRES DE FILAMENTS POLYMERES FILES PAR FUSION**

[72] CASCIO, ANTHONY, US

[71] ALADDIN MANUFACTURING CORPORATION, US

[85] 2021-05-17

[86] 2019-11-22 (PCT/US2019/062873)

[87] (WO2020/123127)

[30] US (62/778,722) 2018-12-12

[30] EP (19152387.7) 2019-01-17

[21] **3,120,330**
[13] A1

[51] **Int.Cl. E21B 33/04 (2006.01) E21B 33/12 (2006.01) F16L 21/02 (2006.01)**

[25] EN

[54] **CENTRALIZING AND PROTECTING SABOT**

[54] **SABOT DE CENTRALISATION ET DE PROTECTION**

[72] CHENG, SAMUEL HEUNG YEUNG, US

[72] O'DELL, KEVIN, US

[72] DUNN, GREGORY, US

[72] PALLINI, JOSEPH, US

[71] VETCO GRAY, LLC, US

[85] 2021-05-17

[86] 2019-11-25 (PCT/US2019/062970)

[87] (WO2020/112619)

[30] US (16/204,521) 2018-11-29

[21] **3,120,331**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 487/18 (2006.01)**

[25] EN

[54] **7-, 8-, AND 10-SUBSTITUTED AMINO TRIAZOLO QUINAZOLINE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS, PHARMACEUTICAL COMPOSITIONS AND THEIR USE**

[54] **DERIVES D'AMINO TRIAZOLO QUINAZOLINE A SUBSTITUTION EN POSITIONS 7, 8 ET 10 UTILISES EN TANT QU'ANTAGONISTES DU RECEPTEUR DE L'ADENOSINE, COMPOSITIONS PHARMACEUTIQUES ET LEUR UTILISATION**

[72] ZHANG, YONGLIAN, US

[72] ALI, AMJAD, US

[72] CUMMING, JARED, US

[72] DEMONG, DUANE, US

[72] DENG, QIAOLIN, US

[72] GRAHAM, THOMAS H., US

[72] HENNESSY, ELISABETH, US

[72] LARSEN, MATTHEW A., US

[72] LIU, KUN, US

[72] LIU, PING, US

[72] MANSOOR, UMAR FARUK, US

[72] PAN, JIANPING, US

[72] PLUMMER, CHRISTOPHER W., US

[72] SATHER, AARON, US

[72] SWAMINATHAN, UMA, US

[72] WANG, HUIJUN, US

[71] MERCK SHARP & DOHME CORP., US

[85] 2021-05-17

[86] 2019-11-26 (PCT/US2019/063146)

[87] (WO2020/112706)

[30] US (62/774,069) 2018-11-30

[21] **3,120,332**
[13] A1

[51] **Int.Cl. B32B 7/12 (2006.01) B32B 7/05 (2019.01) B32B 3/02 (2006.01) B32B 3/08 (2006.01) B32B 17/10 (2006.01) B32B 27/20 (2006.01)**

[25] FR

[54] **LAMINATED GLAZING COMPRISING A PERIPHERAL STEPPED ELEMENT MADE OF POLYMER MATERIAL HAVING A REQUIRED MAXIMUM PERMEABILITY TO WATER VAPOR**

[54] **VITRAGE FEUILLETE A ELEMEN EN GRADIN PERIPHERIQUE EN MATERIAU POLYMERE AYANT UNE PERMEABILITE A LA VAPEUR D'EAU MAXIMALE REQUISE**

[72] TONDU, THOMAS, FR

[72] TELLIER, DIDIER, FR

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2021-05-18

[86] 2019-12-03 (PCT/FR2019/052906)

[87] (WO2020/115425)

[30] FR (1872291) 2018-12-04

[21] **3,120,333**
[13] A1

[51] **Int.Cl. B32B 17/10 (2006.01) H05B 3/84 (2006.01)**

[25] FR

[54] **LAMINATED GLAZING COMPRISING A TRANSPARENT SUBSTRATE WITH A HEATING LAYER HAVING FLOW LINES WHICH ALTOGETHER ARE OF VARIABLE WIDTH**

[54] **VITRAGE FEUILLETE COMPRENANT UN SUBSTRAT TRANSPARENT A COUCHE CHAUFFANTE AYANT DES LIGNES DE FLUX DONT L'ENSEMBLE EST DE LARGEUR VARIABLE**

[72] LEGOIS, VINCENT, FR

[71] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2021-05-18

[86] 2019-12-04 (PCT/FR2019/052931)

[87] (WO2020/120879)

[30] FR (1872679) 2018-12-11

PCT Applications Entering the National Phase

[21] **3,120,334**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) H04W 12/02 (2009.01) G06F 21/55 (2013.01) H04L 29/08 (2006.01)**

[25] EN

[54] **ANTI-CYBERBULLYING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES ANTI-CYBERINTIMIDATION**

[72] MIRON, ADRIAN, RO

[72] ZAVOIU, VIOREL, RO

[72] AFLOAREI, ANDREI M., RO

[72] PATRU, ELENA M., RO

[72] BOTEZATU, LOREDANA, RO

[72] BUGOIU, BOGDAN, RO

[72] HOLBAN, LIVIU A., RO

[71] BITDEFENDER IPR MANAGEMENT LTD, CY

[85] 2021-05-18

[86] 2020-01-20 (PCT/EP2020/051290)

[87] (WO2020/152106)

[30] US (62/794,856) 2019-01-21

[30] US (16/746,648) 2020-01-17

[21] **3,120,335**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61B 17/04 (2006.01) A61B 17/06 (2006.01) A61B 17/34 (2006.01) B21G 1/08 (2006.01)**

[25] EN

[54] **SYSTEMS, DEVICES, AND METHODS FOR ANALYTE SENSOR INSERTION**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES D'INSERTION DE CAPTEUR D'ANALYTE**

[72] RAO, VIVEK S., US

[72] DIPALMA, VINCENT M., US

[72] CARTER, PHILLIP W., US

[72] WU, HSUEH-CHIEH, US

[72] MCCANLESS, JONATHAN D., US

[72] MITCHELL, STEVEN T., US

[72] HOSS, UDO, US

[72] ROBINSON, PETER G., US

[72] NAEGELI, ANDREW H., US

[72] PUDJIJANTO, STEPHEN T., US

[72] BUENCONSEJO, ALLAN C., US

[72] HWANG, MICHELLE, US

[72] SIMMONS, MATTHEW, US

[71] ABBOTT DIABETES CARE INC., US

[85] 2021-05-18

[86] 2019-06-06 (PCT/US2019/035843)

[87] (WO2020/131159)

[30] US (62/784,074) 2018-12-21

[21] **3,120,336**
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 31/166 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **ARYL-ANILINE AND HETEROARYL-ANILINE COMPOUNDS FOR TREATMENT OF BIRTHMARKS**

[54] **COMPOSES D'ARYL-ANILINE ET D'HETEROARYL-ANILINE POUR LE TRAITEMENT DE MARQUES DE NAISSANCE**

[72] KINCAID, JOHN, US

[72] SARIN, KAVITA YANG, US

[71] NFLECTION THERAPEUTICS, INC., US

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

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/000069)

[87] (WO2020/106307)

[30] US (62/769,844) 2018-11-20

[21] **3,120,337**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 9/06 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **NAPHTHYRIDINONE-ANILINE COMPOUNDS FOR TREATMENT OF DERMAL DISORDERS**

[54] **COMPOSES NAPHTHYRIDINONE-ANILINE DESTINES AU TRAITEMENT D'AFFECTIONS DE LA PEAU**

[72] KINCAID, JOHN, US

[72] DUNCTON, MATTHEW, US

[71] NFLECTION THERAPEUTICS, INC., US

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/000070)

[87] (WO2020/106308)

[30] US (62/769,866) 2018-11-20

[21] **3,120,338**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/06 (2012.01) G06Q 20/40 (2012.01) H04L 9/32 (2006.01)**

[25] EN

[54] **AUTO-PILOT TRANSACTIONS USING SMART CONTRACTS**

[54] **TRANSACTIONS EN PILOTE AUTOMATIQUE A L'AIDE DE CONTRATS INTELLIGENTS**

[72] SHAH, MANISH RAMESH, IN

[72] SHARMA, AMINISH, IN

[72] KALLEPALLI, GOUTHAM, IN

[72] MISHRA, ASHISH KUMAR, IN

[71] INTUIT INC., US

[85] 2021-05-18

[86] 2019-07-29 (PCT/US2019/043909)

[87] (WO2020/247002)

[30] US (16/429,260) 2019-06-03

[21] **3,120,339**
[13] A1

[51] **Int.Cl. A61K 31/541 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/573 (2006.01)**

[25] EN

[54] **METHODS FOR ADMINISTERING CORTICOSTEROIDS**

[54] **PROCEDES D'ADMINISTRATION DE CORTICOSTEROIDES**

[72] KATZ, DAVID A., US

[71] SPARROW PHARMACEUTICALS, INC., US

[85] 2021-05-18

[86] 2019-08-14 (PCT/US2019/046449)

[87] (WO2020/106337)

[30] US (62/769,932) 2018-11-20

Demandes PCT entrant en phase nationale

[21] **3,120,340**
[13] A1

[51] **Int.Cl. G01N 21/57 (2006.01) G01J 3/00 (2006.01) G01J 3/02 (2006.01) G01N 21/00 (2006.01) G01N 21/17 (2006.01) G01N 21/55 (2014.01)**

[25] EN

[54] **ADJUSTED COLOR PRESCRIPTIONS FOR AQUEOUS COATING COMPOSITIONS TO CORRECT GLOSS DIFFERENCES**

[54] **PRESCRIPTIONS DE COULEUR AJUSTEES POUR COMPOSITIONS DE REVETEMENT AQUEUSES EN VUE DE CORRIGER DES DIFFERENCES DE BRILLANCE**

[72] TOMSIA, THOMAS P., US
[72] FAIRMAN, HUGH S., US
[72] SANDERS, CHRISTOPHER, US
[71] BENJAMIN MOORE & CO., US
[85] 2021-05-18
[86] 2019-11-18 (PCT/US2019/061961)
[87] (WO2020/117460)
[30] US (62/774,920) 2018-12-04

[21] **3,120,341**
[13] A1

[51] **Int.Cl. H04W 4/16 (2009.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROVIDING CALLER IDENTIFICATION OVER A PUBLIC SWITCHED TELEPHONE NETWORK**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE FOURNIR UNE IDENTIFICATION D'APPELANT SUR UN RESEAU TELEPHONIQUE PUBLIC COMMUTE**

[72] GAYALDO, MICHAEL, US
[71] SUCCESSFUL CULTURES, INC, US
[85] 2021-05-18
[86] 2019-03-06 (PCT/US2019/021000)
[87] (WO2020/106316)
[30] US (62/769,423) 2018-11-19
[30] US (62/771,942) 2018-11-27
[30] US (62/776,761) 2018-12-07

[21] **3,120,342**
[13] A1

[51] **Int.Cl. H01B 7/04 (2006.01) H01B 7/02 (2006.01) H01B 7/18 (2006.01) H01B 7/20 (2006.01) H01B 7/22 (2006.01)**

[25] EN

[54] **REINFORCED POWER CABLE FOR ELECTRIC ARTIFICIAL LIFT SYSTEM**

[54] **CABLE D'ALIMENTATION RENFORCE POUR SYSTEME DE LEVAGE ARTIFICIEL ELECTRIQUE**

[72] DINKINS, WALTER RUSSELL, US
[72] HEDGES, JOHN FARRAR, CA
[72] BENNETT, BRUCE RICHARD, CA
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-05-18
[86] 2019-03-07 (PCT/US2019/021200)
[87] (WO2020/180331)

[21] **3,120,343**
[13] A1

[51] **Int.Cl. A61M 39/24 (2006.01) A61M 5/165 (2006.01)**

[25] EN

[54] **CHECK VALVE WITH INTEGRATED FILTER**

[54] **CLAPET ANTIRETOUR A FILTRE INTEGRE**

[72] FEITH, RAYMOND P., US
[72] MASON, EUGENE, US
[71] CAREFUSION 303, INC., US
[85] 2021-05-18
[86] 2019-10-31 (PCT/US2019/059238)
[87] (WO2020/112299)
[30] US (16/205,122) 2018-11-29

[21] **3,120,344**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61J 1/10 (2006.01) A61M 1/02 (2006.01) B65D 1/02 (2006.01) F25D 3/10 (2006.01) F25D 25/00 (2006.01)**

[25] EN

[54] **SHAPING LIQUID MATERIAL IN A CRYOSTORAGE BAG TO OBTAIN DESIRED SOLID SHAPE**

[54] **MISE EN FORME D'UN MATERIAU LIQUIDE DANS UN SAC DE CRYOSTOCKAGE POUR OBTENIR UNE FORME SOLIDE SOUHAITEE**

[72] SCHYVER, BRIAN, US
[71] BIOLIFE SOLUTIONS, INC., US
[85] 2021-05-18
[86] 2019-10-02 (PCT/US2019/054346)
[87] (WO2020/209892)
[30] US (PCT/US2019/027047) 2019-04-11

[21] **3,120,345**
[13] A1

[51] **Int.Cl. B29C 63/42 (2006.01) B29C 61/06 (2006.01) B29C 63/00 (2006.01) B29C 63/44 (2006.01) B65D 23/14 (2006.01) B65D 55/08 (2006.01)**

[25] EN

[54] **TAG ATTACHMENT BY SHRINK FILM**

[54] **FIXATION D'ETIQUETTE PAR FILM RETRACTABLE**

[72] SCHILLER, DAVID, US
[72] MILBRATH, ERIC, US
[71] BEDFORD INDUSTRIES, INC., US
[85] 2021-05-18
[86] 2019-11-07 (PCT/US2019/060195)
[87] (WO2020/117420)
[30] US (62/776,607) 2018-12-07

PCT Applications Entering the National Phase

[21] **3,120,346**
[13] A1

[51] **Int.Cl. A01G 25/09 (2006.01) A01C 21/00 (2006.01) A01C 23/04 (2006.01) A01G 25/16 (2006.01) B05B 1/20 (2006.01)**

[25] EN

[54] **CROP INPUT APPLICATION SYSTEMS, METHODS, AND APPARATUS**

[54] **SYSTEMES, PROCEDES ET APPAREIL D'APPLICATION D'ENTREE DE RECOLTE**

[72] SAUDER, GREGGORY A., US

[72] SAUDER, TIMOTHY, US

[72] KOCH, JUSTIN L., US

[72] MOORE, NOWELL, US

[72] WELTE, JONATHAN T., US

[72] ABERLE, REID, US

[72] NUEST, STEVEN, US

[71] 360 YIELD CENTER, LLC, US

[85] 2021-05-18

[86] 2019-11-07 (PCT/US2019/060348)

[87] (WO2020/106465)

[30] US (62/769,378) 2018-11-19

[21] **3,120,347**
[13] A1

[51] **Int.Cl. G10L 21/02 (2013.01) G10L 21/0208 (2013.01) G06T 5/00 (2006.01)**

[25] EN

[54] **NOISE REDUCTION FILTER FOR SIGNAL PROCESSING**

[54] **FILTRE DE REDUCTION DE BRUIT POUR TRAITEMENT DE SIGNAUX**

[72] RAKOV, V. SERGEY, US

[71] PERKINELMER HEALTH SCIENCES, INC., US

[85] 2021-05-18

[86] 2019-11-14 (PCT/US2019/061467)

[87] (WO2020/106543)

[30] US (62/769,174) 2018-11-19

[30] US (16/275,978) 2019-02-14

[21] **3,120,348**
[13] A1

[51] **Int.Cl. D01D 5/00 (2006.01) D04H 1/728 (2012.01) D01D 5/18 (2006.01)**

[25] EN

[54] **DEVICE, SYSTEMS, AND METHODS OF APPLYING A TREATMENT SOLUTION TO A TREATMENT SITE**

[54] **DISPOSITIF, SYSTEMES ET METHODES D'APPLICATION D'UNE SOLUTION DE TRAITEMENT A UN SITE DE TRAITEMENT**

[72] WRIGHT, CLIFFORD A., US

[71] OCTET MEDICAL, INC., US

[85] 2021-05-18

[86] 2019-11-18 (PCT/US2019/061963)

[87] (WO2020/106609)

[30] US (62/769,511) 2018-11-19

[30] US (62/878,250) 2019-07-24

[30] US (62/882,945) 2019-08-05

[21] **3,120,349**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) A61K 38/19 (2006.01) C07K 14/525 (2006.01)**

[25] EN

[54] **SUICIDE GENE**

[54] **GENE SUICIDE**

[72] REZVANI, KATY, US

[72] SHPALL, ELIZABETH, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2021-05-18

[86] 2019-11-18 (PCT/US2019/062009)

[87] (WO2020/106619)

[30] US (62/769,405) 2018-11-19

[30] US (62/773,372) 2018-11-30

[30] US (62/791,464) 2019-01-11

[21] **3,120,350**
[13] A1

[51] **Int.Cl. G02F 1/13 (2006.01)**

[25] EN

[54] **MULTIVIEW DISPLAY, SYSTEM, AND METHOD HAVING DYNAMIC COLOR SUB-PIXELS REMAPPING**

[54] **AFFICHAGE A VUES MULTIPLES, SYSTEME ET PROCEDE AYANT UN REMAPPAGE DE SOUS-PIXELS DE COULEUR DYNAMIQUE**

[72] FATTAL, DAVID A., US

[72] GEISLER, DANIEL, JR., US

[71] LEIA INC., US

[85] 2021-05-18

[86] 2018-12-27 (PCT/US2018/067644)

[87] (WO2020/139338)

[21] **3,120,351**
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 31/192 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ARYL-ANILINE AND HETEROARYL-ANILINE COMPOUNDS FOR TREATMENT OF SKIN CANCERS**

[54] **COMPOSES ARYL-ANILINE ET HETEROARYL-ANILINE POUR LE TRAITEMENT DE CANCERS DE LA PEAU**

[72] TSAI, KENNETH Y., US

[72] KINCAID, JOHN, US

[72] SARIN, KAVITA YANG, US

[71] NFLECTION THERAPEUTICS, INC., US

[71] H. LEE MOFFITT CANCER CENTER & RESEARCH INSTITUTE, US

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/000065)

[87] (WO2020/106303)

[30] US (62/769,879) 2018-11-20

Demandes PCT entrant en phase nationale

[21] **3,120,352**
[13] A1

[51] **Int.Cl. A61K 31/381 (2006.01) A61P 35/00 (2006.01) C07D 333/38 (2006.01)**

[25] EN

[54] **THIENYL-ANILINE COMPOUNDS FOR TREATMENT OF DERMAL DISORDERS**

[54] **COMPOSES THIENYL-ANILINE DESTINES AU TRAITEMENT D'AFFECTIONS DE LA PEAU**

[72] KINCAID, JOHN, US

[72] DUNCTON, MATTHEW, US

[71] NFLECTION THERAPEUTICS, INC., US

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/000067)

[87] (WO2020/106305)

[30] US (62/769,832) 2018-11-20

[21] **3,120,353**
[13] A1

[51] **Int.Cl. A47L 11/40 (2006.01) A47L 9/30 (2006.01) A47L 11/30 (2006.01)**

[25] EN

[54] **VACUUM CLEANER WITH SMALL AREA EXTRACTION**

[54] **ASPIRATEUR AVEC EXTRACTION DE PETITE SURFACE**

[72] KREBS, ALAN J., US

[72] FINNIE, ALAN, US

[71] BISSELL INC., US

[85] 2021-05-18

[86] 2019-11-19 (PCT/US2019/062094)

[87] (WO2020/106657)

[30] US (62/769,298) 2018-11-19

[21] **3,120,354**
[13] A1

[51] **Int.Cl. B29B 17/00 (2006.01) B29C 70/08 (2006.01) B29C 70/16 (2006.01)**

[25] EN

[54] **ACRYLIC COMPOSITES WITH IMPROVED SURFACE PROPERTIES**

[54] **COMPOSITES ACRYLIQUES AYANT DES PROPRIETES DE SURFACE AMELIOREES**

[72] SWAN, DANA L, US

[72] WANAT, ROBERT A., US

[72] BARSOTTI, ROBERT J., US

[72] BACHMAN, NATHAN J., US

[72] GERARD, PIERRE, FR

[71] ARKEMA FRANCE, FR

[85] 2021-05-18

[86] 2019-11-19 (PCT/US2019/062102)

[87] (WO2020/106663)

[30] US (62/769,027) 2018-11-19

[21] **3,120,355**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B66C 1/10 (2006.01) E04G 21/16 (2006.01)**

[25] EN

[54] **RACK AND HOIST SYSTEM**

[54] **RATELIER ET SYSTEME DE LEVAGE**

[72] PRUSKAUER, MARK ALAN, US

[71] AIRO INDUSTRIES, INC., US

[85] 2021-05-18

[86] 2019-11-19 (PCT/US2019/062279)

[87] (WO2020/106765)

[30] US (16/195,200) 2018-11-19

[21] **3,120,356**
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) B22F 3/105 (2006.01) B22F 5/10 (2006.01)**

[25] EN

[54] **VARIABLE DENSITY ELEMENT RETAINER FOR USE DOWNHOLE**

[54] **DISPOSITIF DE RETENUE D'ELEMENT A DENSITE VARIABLE POUR UTILISATION EN FOND DE TROU**

[72] PELTO, CHRISTOPHER MICHAEL, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-05-18

[86] 2019-02-05 (PCT/US2019/016636)

[87] (WO2020/162883)

[21] **3,120,357**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 10/10 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PROVIDING A MULTI-DIMENSIONAL HUMAN RESOURCE ALLOCATION ADVISER**

[54] **PROCEDE ET SYSTEME POUR FOURNIR UN CONSEILLER D'ALLOCATION DE RESSOURCES HUMAINES MULTIDIMENSIONNEL**

[72] SAHNI, PRAVEEN, US

[72] SLEPKO, BRIAN, US

[72] CULLEN, PHILIP, US

[72] HARDIMAN, JASON, US

[71] RIMINI STREEET, INC., US

[85] 2021-05-18

[86] 2019-11-11 (PCT/US2019/060741)

[87] (WO2020/106481)

[30] US (16/195,668) 2018-11-19

[21] **3,120,358**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 37/06 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTAGONISTIC CD40 MONOCLONAL ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS MONOCLONAUX ANTAGONISTES ANTI-CD40 ET LEURS UTILISATIONS**

[72] YAMNIUK, AARON, US

[72] STRUTHERS, MARY, US

[72] KRYSSTEK, STANLEY R., JR., US

[72] NAYEEM, AKBAR, US

[72] RAKESTRAW, GINGER, US

[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2021-05-18

[86] 2019-11-18 (PCT/US2019/062011)

[87] (WO2020/106620)

[30] US (62/769,514) 2018-11-19

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[21] **3,120,359**
[13] A1

[51] **Int.Cl. C12Q 1/44 (2006.01) C12Q 1/6816 (2018.01) A61K 38/46 (2006.01) C12N 9/22 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTING AND SEQUENCING A TARGET NUCLEIC ACID**

[54] **PROCEDES DE DETECTION ET DE SEQUENCAGE D'UN ACIDE NUCLEIQUE CIBLE**

[72] DOUDNA, JENNIFER A., US

[72] HARRINGTON, LUCAS B., US

[72] CHEN, JANICE S., US

[72] DENG, XIANDING, US

[72] GRANADOS, ANDREA, US

[72] CHIU, CHARLES, US

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

[85] 2021-05-18

[86] 2019-11-18 (PCT/US2019/062033)

[87] (WO2020/106630)

[30] US (62/769,410) 2018-11-19

[21] **3,120,360**
[13] A1

[51] **Int.Cl. A23K 20/189 (2016.01) C12N 9/16 (2006.01)**

[25] EN

[54] **ENGINEERED ROBUST HIGH TM-PHYTASE CLADE POLYPEPTIDES AND FRAGMENTS THEREOF**

[54] **POLYPEPTIDES ROBUSTES MODIFIES A CLADE DE PHYTASE A TM ELEVEE ET FRAGMENTS DE CEUX-CI**

[72] BABE, LILIA MARIA, US

[72] CHRISTENSEN, TRINE, DK

[72] HAANING, SVEND, DK

[72] KIM, HYE-SOOK, US

[72] MEJLDAL, RIE, DK

[72] NIKOLAEV, IGOR, NL

[72] PRASAD, JAHNAVI CHANDRA, US

[72] PRICELIUS, SINA, NL

[72] SORENSEN, JENS FRISBAEK, DK

[72] SORG, ROBIN ANTON, NL

[71] DUPONT NUTRITION BIOSCIENCES APS, DK

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/062335)

[87] (WO2020/106796)

[30] US (62/769,713) 2018-11-20

[30] US (62/851,122) 2019-05-22

[30] US (62/887,714) 2019-08-16

[21] **3,120,361**
[13] A1

[51] **Int.Cl. E21B 43/1185 (2006.01) E21B 43/11 (2006.01) E21B 43/117 (2006.01) E21B 43/119 (2006.01) F42B 3/10 (2006.01) F42D 1/045 (2006.01)**

[25] EN

[54] **UNIVERSAL PLUG AND PLAY PERFORATING GUN TANDEM**

[54] **TANDEM DE PERFORATEURS PRET A L'EMPLOI UNIVERSEL**

[72] DYESS, ADAM, US

[72] MAI, JASON HOANG, US

[72] BRADLEY, RICHARD WAYNE, US

[72] HOWK, JOSHUA BLAKE, US

[71] HUNTING TITAN, INC., US

[85] 2021-05-18

[86] 2019-11-27 (PCT/US2019/063584)

[87] (WO2020/112983)

[30] US (62/773,044) 2018-11-29

[21] **3,120,362**
[13] A1

[51] **Int.Cl. G01B 5/14 (2006.01) G01S 13/06 (2006.01) G01S 13/16 (2006.01)**

[25] EN

[54] **SYSTEM, APPARATUS AND METHOD FOR INVENTORY**

[54] **SYSTEME, APPAREIL ET PROCEDE D'INVENTAIRE**

[72] HOWARD, STEPHEN, US

[71] OMNI CONSUMER PRODUCTS, LLC, US

[85] 2021-05-18

[86] 2019-11-28 (PCT/US2019/063815)

[87] (WO2020/113142)

[30] US (62/772,604) 2018-11-28

[30] US (16/698,917) 2019-11-27

[21] **3,120,363**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHODS FOR DOSING AND TREATMENT OF B CELL MALIGNANCIES IN ADOPTIVE CELL THERAPY**

[54] **METHODES DE DOSAGE ET DE TRAITEMENT DE MALIGNITES DE LYMPHOCYTES B AU MOYEN D'UNE THERAPIE CELLULAIRE ADOPTIVE**

[72] GILLENWATER, HEIDI, US

[72] THORPE, JERILL, US

[72] ALBERTSON, TINA, US

[72] DUBOVSKY, JASON A., US

[71] JUNO THERAPEUTICS, INC., US

[85] 2021-05-18

[86] 2019-11-29 (PCT/US2019/063883)

[87] (WO2020/113188)

[30] US (62/774,168) 2018-11-30

[30] US (62/774,858) 2018-12-03

[30] US (62/847,897) 2019-05-14

[30] US (62/854,957) 2019-05-30

[30] US (62/931,143) 2019-11-05

[21] **3,120,364**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/073 (2010.01) C12N 5/0783 (2010.01) C07K 14/725 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **PLACENTA-DERIVED ALLOGENEIC CAR-T CELLS AND USES THEREOF**

[54] **CELLULES CAR-T ALLOGENIQUES DERIVEES DE PLACENTA ET LEURS UTILISATIONS**

[72] HARIRI, ROBERT J., US

[72] KARASIEWICZ, KATHY, US

[72] LI, TIANJIAN, US

[71] CELULARITY, INC., US

[85] 2021-05-18

[86] 2019-12-02 (PCT/US2019/064074)

[87] (WO2020/113234)

[30] US (62/774,142) 2018-11-30

[30] US (62/878,736) 2019-07-25

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[21] **3,120,365**
[13] A1

[51] **Int.Cl. A46B 11/00 (2006.01) A46B 15/00 (2006.01) A61C 19/06 (2006.01)**

[25] EN

[54] **ORAL CARE AGENT DISPENSING SYSTEM**

[54] **SYSTEME DE DISTRIBUTION D'AGENT DE SOINS BUCCAUX**

[72] SPEICHER, ERIN, US

[72] DAVIES-SMITH, LEIGHTON, US

[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2021-05-18

[86] 2019-12-04 (PCT/US2019/064358)

[87] (WO2020/131371)

[30] US (16/221,533) 2018-12-16

[21] **3,120,366**
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/444 (2006.01) C07D 213/82 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL METHODS**

[54] **PROCEDES PHARMACEUTIQUES**

[72] MCGINN, ARLO N., US

[72] KIM, BUMJIN, US

[72] KIM, SUNG CHUL, US

[72] PARK, CHEOL HEE, US

[71] ELEVAR THERAPEUTICS, INC., US

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/062494)

[87] (WO2020/106898)

[30] US (62/770,437) 2018-11-21

[21] **3,120,367**
[13] A1

[51] **Int.Cl. H04H 60/31 (2009.01) H04H 60/56 (2009.01) H04H 60/66 (2009.01) H04N 21/2389 (2011.01) H04N 21/442 (2011.01) H04N 21/8358 (2011.01)**

[25] EN

[54] **FLEXIBLE COMMERCIAL MONITORING**

[54] **SURVEILLANCE DE MESSAGE PUBLICITAIRE FLEXIBLE**

[72] FUHRER, BRIAN, US

[72] KRAMER, MARIE, US

[71] THE NIELSEN COMPANY (US), LLC, US

[85] 2021-05-18

[86] 2019-11-25 (PCT/US2019/063054)

[87] (WO2020/112661)

[30] US (62/771,946) 2018-11-27

[21] **3,120,368**
[13] A1

[51] **Int.Cl. A61K 31/137 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ELACESTRANT IN COMBINATION WITH ABEMACICLIB IN WOMEN WITH BREAST CANCER**

[54] **ELACESTRANT EN COMBINAISON AVEC DE L'ABEMACICLIB CHEZ DES FEMMES ATTEINTES D'UN CANCER DU SEIN**

[72] ARAGAM, NINA K., US

[72] MORRIS, CHARLES, US

[71] RADIUS PHARMACEUTICALS, INC., US

[85] 2021-05-18

[86] 2019-11-26 (PCT/US2019/063239)

[87] (WO2020/112765)

[30] US (62/773,960) 2018-11-30

[21] **3,120,369**
[13] A1

[51] **Int.Cl. A47J 37/07 (2006.01) A47J 33/00 (2006.01) A47J 37/00 (2006.01) A47J 37/04 (2006.01) A47J 37/06 (2006.01)**

[25] EN

[54] **MODULAR GRILL AND BURN BARREL**

[54] **GRILLE MODULAIRE ET CYLINDRE DE COMBUSTION**

[72] BURCH, ROBERT L., II, US

[72] JORDAN, ANDREW, US

[72] UNDI, ALEXANDER, US

[71] BURCH BARREL, LLC, US

[85] 2021-05-18

[86] 2019-12-04 (PCT/US2019/064546)

[87] (WO2020/117986)

[30] US (62/775,098) 2018-12-04

[21] **3,120,370**
[13] A1

[51] **Int.Cl. G06K 9/20 (2006.01) G06T 7/73 (2017.01) G06K 9/36 (2006.01) G06K 9/46 (2006.01)**

[25] EN

[54] **MAPPING SOIL PROPERTIES WITH SATELLITE DATA USING MACHINE LEARNING APPROACHES**

[54] **MAPPAGE DE PROPRIETES DE SOL AVEC DES DONNEES SATELLITAIRES EN UTILISANT DES APPROCHES PAR APPRENTISSAGE AUTOMATIQUE**

[72] CASAS, ANGELES, US

[72] YANG, XIAOYUAN, US

[72] WARD, STEVEN, US

[71] THE CLIMATE CORPORATION, US

[85] 2021-05-18

[86] 2019-12-09 (PCT/US2019/065153)

[87] (WO2020/123342)

[30] US (62/778,268) 2018-12-11

[21] **3,120,371**
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 31/166 (2006.01) A61K 31/44 (2006.01) A61P 17/00 (2006.01)**

[25] EN

[54] **CYANOARYL-ANILINE COMPOUNDS FOR TREATMENT OF DERMAL DISORDERS**

[54] **COMPOSES CYANOARYL-ANILINE POUR LE TRAITEMENT D'AFFECTIONS DE LA PEAU**

[72] KINCAID, JOHN, US

[72] DUNCTON, MATTHEW, US

[71] INFLECTION THERAPEUTICS, INC., US

[85] 2021-05-18

[86] 2019-11-20 (PCT/US2019/000068)

[87] (WO2020/106306)

[30] US (62/769,871) 2018-11-20

PCT Applications Entering the National Phase

[21] **3,120,372**
[13] A1

[51] **Int.Cl. G10K 11/178 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR NOISE CANCELLATION IN EMERGENCY RESPONSE VEHICLES**
[54] **SYSTEME ET PROCEDE D'ANNULATION DE BRUIT DANS DES VEHICULES DE REPOSE D'URGENCE**
[72] CONLON, BRANDON, US
[72] DORNFELD, DAVID, US
[71] WHELEN ENGINEERING COMPANY, INC., US
[85] 2021-05-18
[86] 2019-03-07 (PCT/US2019/021124)
[87] (WO2020/180326)

[21] **3,120,373**
[13] A1

[51] **Int.Cl. G06F 21/55 (2013.01) H04L 29/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BEHAVIORAL THREAT DETECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE MENACE COMPORTEMENTALE**
[72] DICHIU, DANIEL, RO
[72] NICULAE, STEFAN, RO
[72] BOSINCEANU, ELENA A., RO
[72] ZAMFIR, SORINA N., RO
[72] DINCU, ANDREEA, RO
[72] APOSTOAE, ANDREI A., RO
[71] BITDEFENDER IPR MANAGEMENT LTD, CY
[85] 2021-05-18
[86] 2019-12-10 (PCT/EP2019/084311)
[87] (WO2020/120428)
[30] US (16/215,214) 2018-12-10

[21] **3,120,374**
[13] A1

[51] **Int.Cl. A01M 1/02 (2006.01) A01M 1/10 (2006.01) A01M 1/20 (2006.01)**
[25] EN
[54] **SELECTIVE DETECTION OF BED BUGS**
[54] **DETECTION SELECTIVE DES PUNAISES DES LITS**
[72] GIAMPIETRO, NATALIE C., US
[72] BEACH, MARK W., US
[72] SHANKAR, RAVI, US
[72] SPOMER, NEIL A., US
[71] DOW AGROSCIENCES LLC, US
[85] 2021-05-18
[86] 2019-11-20 (PCT/US2019/062423)
[87] (WO2020/106848)
[30] US (62/770,413) 2018-11-21

[21] **3,120,375**
[13] A1

[51] **Int.Cl. H02K 1/02 (2006.01) H02K 15/02 (2006.01) H02K 1/16 (2006.01)**
[25] EN
[54] **A METHOD OF MAKING A MULTI-MATERIAL SEGMENTED STATOR FOR A ROTATING ELECTRIC MACHINE AND A STATOR MADE BY SAID METHOD**
[54] **PROCEDE DE FABRICATION D'UN STATOR SEGMENTE A PLUSIEURS MATERIAUX POUR MACHINE ELECTRIQUE TOURNANTE ET STATOR FABRIQUE PAR LEDIT PROCEDE**
[72] DAS, JAYDIP, US
[72] MEHEDI, MD, US
[72] GEHRET, KYLE, US
[72] STRITCH, KYLE, US
[72] SHAH, TAPAN, US
[71] CRS HOLDINGS, INC., US
[85] 2021-05-18
[86] 2019-11-20 (PCT/US2019/062445)
[87] (WO2020/106864)
[30] US (62/769,765) 2018-11-20

[21] **3,120,376**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DIGITALLY PROCESSING BIOPOTENTIAL SIGNAL**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT NUMERIQUE D'UN SIGNAL DE BIOPOTENTIEL**
[72] MOGHADDAMBAGHERI, ALIREZA, CA
[71] EASYG LLC, US
[85] 2021-05-18
[86] 2019-11-26 (PCT/US2019/063410)
[87] (WO2020/112877)
[30] US (62/772,248) 2018-11-28

[21] **3,120,377**
[13] A1

[51] **Int.Cl. G06F 30/10 (2020.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR A SPACE MODELING TOOL**
[54] **SYSTEME, PROCEDE ET APPAREIL DESTINES A UN OUTIL DE MODELISATION D'ESPACE**
[72] GILPIN, MARC ALLEN, US
[72] MCNUTT, LARRY DON, US
[71] OMNI CONSUMER PRODUCTS, LLC, US
[85] 2021-05-18
[86] 2019-11-27 (PCT/US2019/063622)
[87] (WO2020/113012)
[30] US (62/772,606) 2018-11-28
[30] US (16/696,157) 2019-11-26

Demandes PCT entrant en phase nationale

[21] **3,120,378**
[13] A1

[51] **Int.Cl. F16F 7/116 (2006.01)**
[25] EN
[54] **TUNED MASS ABSORBER ASSEMBLY AND SYSTEM FOR ATTENUATING FREQUENCY SPECIFIC VIBRATIONAL ENERGY**
[54] **ENSEMBLE ABSORBEUR DE MASSE ACCORDE ET SYSTEME D'ATTENUATION D'ENERGIE VIBRATOIRE SPECIFIQUE A UNE FREQUENCE**
[72] MILLER, BRETT A., US
[72] MARTINEZ, MICHAEL, US
[71] RAYTHEON COMPANY, US
[85] 2021-05-18
[86] 2019-09-27 (PCT/US2019/053496)
[87] (WO2020/112232)
[30] US (16/205,090) 2018-11-29

[21] **3,120,379**
[13] A1

[51] **Int.Cl. A61B 6/02 (2006.01) A61B 34/20 (2016.01)**
[25] EN
[54] **MARKER FOR IDENTIFYING A SURGICAL CAVITY**
[54] **MARQUEUR D'IDENTIFICATION D'UNE CAVITE CHIRURGICALE**
[72] HABIBI, MEHRAN, US
[72] SHIR, FARHAD, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2021-05-18
[86] 2019-11-18 (PCT/US2019/062042)
[87] (WO2020/106634)
[30] US (62/769,259) 2018-11-19

[21] **3,120,380**
[13] A1

[51] **Int.Cl. C07D 207/08 (2006.01) A61K 31/40 (2006.01) A61K 31/4427 (2006.01) A61K 31/445 (2006.01) A61K 31/4523 (2006.01) A61K 31/497 (2006.01) A61K 31/5375 (2006.01) A61K 31/5377 (2006.01) A61K 31/54 (2006.01) A61K 31/541 (2006.01) A61P 7/06 (2006.01) C07D 211/22 (2006.01) C07D 265/30 (2006.01) C07D 279/12 (2006.01) C07D 401/06 (2006.01) C07D 401/10 (2006.01) C07D 403/06 (2006.01) C07D 413/06 (2006.01) C07D 417/06 (2006.01)**
[25] EN
[54] **2-FORMYL-3-HYDROXYPHENYLOXYMETHYL COMPOUNDS CAPABLE OF MODULATING HEMOGLOBIN**
[54] **COMPOSES DE 2-FORMYL-3-HYDROXYPHENYLOXYMETHYL E CAPABLES DE MODULER L'HEMOGLOBINE**
[72] LI, ZHE, US
[71] GLOBAL BLOOD THERAPEUTICS, INC., US
[85] 2021-05-18
[86] 2019-11-18 (PCT/US2019/062054)
[87] (WO2020/106642)
[30] US (62/769,196) 2018-11-19
[30] US (62/821,314) 2019-03-20
[30] US (62/848,773) 2019-05-16
[30] US (62/883,313) 2019-08-06

[21] **3,120,381**
[13] A1

[51] **Int.Cl. A01K 27/00 (2006.01) B65H 75/00 (2006.01) B65H 75/02 (2006.01) B65H 75/30 (2006.01) B65H 75/34 (2006.01) B65H 75/44 (2006.01)**
[25] EN
[54] **PALM ACTIVATED RETRACTABLE LEASH**
[54] **LAISSE RETRACTABLE ACTIVEE PAR LA PAUME**
[72] ANDERSON, JOHN, US
[71] BOW AND ARROW MARKETING, INC., US
[85] 2021-05-18
[86] 2019-11-19 (PCT/US2019/062300)
[87] (WO2020/106778)
[30] US (62/769,257) 2018-11-19

[21] **3,120,382**
[13] A1

[51] **Int.Cl. B27N 3/00 (2006.01) C08J 7/04 (2020.01) C09J 189/00 (2006.01)**
[25] EN
[54] **NOVEL AQUEOUS ADHESIVES USING SACCHARIDE FATTY ACID ESTERS**
[54] **NOUVEAUX ADHESIFS AQUEUX UTILISANT DES ESTERS D'ACIDES GRAS DE SACCHARIDE**
[72] SPENDER, JONATHAN, US
[72] BILODEAU, MICHAEL ALBERT, US
[72] MIKAIL, SAMUEL, US
[71] GREENTECH GLOBAL PTE. LTD., SG
[85] 2021-05-18
[86] 2019-11-20 (PCT/US2019/062338)
[87] (WO2020/106799)
[30] US (62/770,482) 2018-11-21

[21] **3,120,383**
[13] A1

[51] **Int.Cl. C07D 471/10 (2006.01) A61P 35/00 (2006.01) C07D 487/10 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS OF USE THEREOF FOR TREATMENT OF CANCER**
[54] **COMPOSES ET PROCEDES D'UTILISATION ASSOCIES POUR LE TRAITEMENT DU CANCER**
[72] LI, LIANSHENG, US
[72] LIU, YUAN, US
[72] WU, TAO, US
[72] REN, PINGDA, US
[72] LIU, YI, US
[71] ARAXES PHARMA LLC, US
[85] 2021-05-18
[86] 2019-11-27 (PCT/US2019/063702)
[87] (WO2020/113071)
[30] US (62/773,084) 2018-11-29
[30] US (62/773,104) 2018-11-29

PCT Applications Entering the National Phase

[21] **3,120,384**
[13] A1

[51] **Int.Cl. A23C 11/00 (2006.01) A23L 9/20 (2016.01) A23C 11/02 (2006.01) A23C 11/04 (2006.01) A23C 11/06 (2006.01) A23J 3/00 (2006.01) A23J 3/14 (2006.01) A23J 3/16 (2006.01)**

[25] EN

[54] **NON-DAIRY ANALOGS WITH SUCCINYLATED PLANT PROTEINS AND METHODS USING SUCH PRODUCTS**

[54] **ANALOGUES NON LAITIERS AVEC DES PROTEINES VEGETALES SUCCINYLEES ET PROCEDES UTILISANT DE TELS PRODUITS**

[72] STILES, AMANDA, US
[72] HOMYAK, CELIA, US
[72] ASTOR, SAVINA, US
[72] SMITH, BRIDGET, US
[71] RIPPLE FOODS, PBC, US
[85] 2021-05-18
[86] 2019-12-04 (PCT/US2019/064455)
[87] (WO2020/117927)
[30] US (62/775,612) 2018-12-05
[30] US (62/799,494) 2019-01-31

[21] **3,120,385**
[13] A1

[51] **Int.Cl. F26B 3/347 (2006.01) F26B 9/06 (2006.01)**

[25] EN

[54] **CANNABIS DRYING OVEN**

[54] **FOUR DE SECHAGE DE CANNABIS**

[72] ZICKEL, BEN, IL
[72] DANOV, TATIANA, IL
[72] COHEN, RONEN, IL
[72] BURSTEIN, AMIR, IL
[71] GOJI LIMITED, BM
[85] 2021-05-17
[86] 2019-11-18 (PCT/IL2019/051262)
[87] (WO2020/105043)
[30] US (62/769,005) 2018-11-19

[21] **3,120,386**
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) H04L 9/08 (2006.01)**

[25] EN

[54] **MUTUAL AUTHENTICATION OF COMPUTER SYSTEMS OVER AN INSECURE NETWORK**

[54] **AUTHENTIFICATION MUTUELLE DE SYSTEMES INFORMATIQUES SUR UN RESEAU NON SECURISE**

[72] SMALES, ANTONY, AU
[72] CEYZAR, MIRZA, AU
[71] FORTICODE LIMITED, AU
[85] 2021-05-18
[86] 2019-11-26 (PCT/AU2019/051294)
[87] (WO2020/107065)
[30] AU (2018904493) 2018-11-26

[21] **3,120,387**
[13] A1

[51] **Int.Cl. G01S 5/00 (2006.01) H04W 64/00 (2009.01)**

[25] EN

[54] **DETERMINING A LOCATION OF MOTION DETECTED FROM WIRELESS SIGNALS BASED ON PRIOR PROBABILITY**

[54] **DETERMINATION D'EMPLACEMENT DE MOUVEMENT DETECTE A PARTIR DE SIGNAUX SANS FIL EN FONCTION D'UNE PROBABILITE ANTERIEURE**

[72] OMER, MOHAMMAD, CA
[72] DEVISON, STEPHEN ARNOLD, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2021-05-18
[86] 2019-10-29 (PCT/CA2019/051527)
[87] (WO2020/113312)
[30] US (16/207,649) 2018-12-03

[21] **3,120,388**
[13] A1

[51] **Int.Cl. C07D 409/12 (2006.01) A61K 31/381 (2006.01) A61K 31/4155 (2006.01) A61K 31/455 (2006.01) A61K 31/506 (2006.01) C07D 333/68 (2006.01)**

[25] EN

[54] **4,5,6,7-TETRAHYDRO-L-BENZOTHIOPHENE MODULATORS OF RETINOIC ACID RECEPTOR RELATED (RAR) ORPHAN NUCLEAR RECEPTORS (RORS)**

[54] **MODULATEURS DE 4,5,6,7-TETRAHYDRO-L-BENZOTHIOPHENE DE RECEPTEURS NUCLEAIRES ORPHELINS (ROR) LIES AU RECEPTEUR DE L'ACIDE RETINOIQUE (RAR)**

[72] FOU DA, AHMED, CA
[72] NEGI, SARITA, CA
[72] PARASKEVAS, STEVEN, CA
[72] TCHERVENKOV, JEAN I., CA
[71] 11949098 CANADA INC., CA
[85] 2021-05-18
[86] 2019-11-19 (PCT/CA2019/051644)
[87] (WO2020/102889)
[30] US (62/769,167) 2018-11-19
[30] US (62/769,849) 2018-11-20

[21] **3,120,389**
[13] A1

[51] **Int.Cl. A47G 9/10 (2006.01) A47D 15/00 (2006.01) A61F 5/01 (2006.01)**

[25] EN

[54] **PLAGIOCEPHALY PILLOW ASSEMBLY, PLAGIOCEPHALY PREVENTION SET AND METHOD FOR PREVENTING DEFORMATIONAL PLAGIOCEPHALY**

[54] **ENSEMBLE OREILLER PLAGIOCEPHALIE, ENSEMBLE DE PREVENTION DE PLAGIOCEPHALIE ET PROCEDE DE PREVENTION DE PLAGIOCEPHALIE DEFORMANTE**

[72] TREMBLAY, MATHIEU, CA
[72] TREMBLAY, MATHIEU, CA
[71] GROUPE BBLUV INC., CA
[85] 2021-05-18
[86] 2019-11-19 (PCT/CA2019/051649)
[87] (WO2020/102891)
[30] US (62/770,925) 2018-11-23

Demandes PCT entrant en phase nationale

<p style="text-align: center;">[21] 3,120,390 [13] A1</p> <p>[51] Int.Cl. E04B 1/00 (2006.01) E04B 1/04 (2006.01) E04B 1/348 (2006.01) E04B 5/32 (2006.01)</p> <p>[25] EN</p> <p>[54] MODULAR BUILDING SYSTEMS</p> <p>[54] SYSTEMES DE CONSTRUCTION MODULAIRES</p> <p>[72] ISAACS, SCOTT, CA</p> <p>[72] NEWNHAM, DARRIN, CA</p> <p>[71] VERO SOLUTIONS INC., CA</p> <p>[85] 2021-05-18</p> <p>[86] 2019-11-19 (PCT/CA2019/051651)</p> <p>[87] (WO2020/102893)</p> <p>[30] US (62/769,275) 2018-11-19</p>	<p style="text-align: center;">[21] 3,120,392 [13] A1</p> <p>[51] Int.Cl. F16H 9/12 (2006.01) F16H 9/16 (2006.01)</p> <p>[25] EN</p> <p>[54] DRIVEN PULLEY FOR A CONTINUOUSLY VARIABLE TRANSMISSION</p> <p>[54] POULIE MENEÉ POUR UNE TRANSMISSION A VARIATION CONTINUE</p> <p>[72] JUTRAS, ALEXANDRE, CA</p> <p>[72] FILLION, SAMUEL, CA</p> <p>[72] LABBE, JOCELYN, CA</p> <p>[72] ALLARD, FREDERIC, CA</p> <p>[72] LAVOIE, STEPHANE, CA</p> <p>[71] CVTECH-IBC INC., CA</p> <p>[85] 2021-05-18</p> <p>[86] 2019-11-26 (PCT/CA2019/051686)</p> <p>[87] (WO2020/107103)</p> <p>[30] US (62/771,828) 2018-11-27</p>	<p style="text-align: center;">[21] 3,120,394 [13] A1</p> <p>[51] Int.Cl. A61K 38/17 (2006.01) A61K 35/76 (2015.01) A61P 25/00 (2006.01) C07K 14/47 (2006.01) C12N 15/864 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD OF REDUCING NEURONAL MICROTUBULE BINDING PROTEIN TAU (TAU) LEVELS</p> <p>[54] PROCEDE DE REDUCTION DES TAUX DE PROTEINE TAU DE LIAISON AUX MICROTUBULES NEURONAUX</p> <p>[72] CAYOUILLE, MICHEL, CA</p> <p>[72] LACOMME, MARINE, CA</p> <p>[71] ADAERATA, LIMITED PARTNERSHIP, CA</p> <p>[85] 2021-05-18</p> <p>[86] 2019-12-05 (PCT/CA2019/051751)</p> <p>[87] (WO2020/113338)</p> <p>[30] US (62/775,520) 2018-12-05</p>
<p style="text-align: center;">[21] 3,120,391 [13] A1</p> <p>[51] Int.Cl. B01D 11/02 (2006.01) A23L 33/105 (2016.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)</p> <p>[25] EN</p> <p>[54] PROCESS FOR SELECTIVELY EXTRACTING CANNABINOIDS FROM CANNABIS PLANT MATERIALS</p> <p>[54] PROCESSUS POUR L'EXTRACTION SELECTIVE DE CANNABINOIDES A PARTIR DE MATERIAUX VEGETAUX DE CANNABIS</p> <p>[72] ALSAYAR, MAX, CA</p> <p>[71] HEXO OPERATIONS INC., CA</p> <p>[85] 2021-05-18</p> <p>[86] 2019-11-20 (PCT/CA2019/051659)</p> <p>[87] (WO2020/102898)</p> <p>[30] US (62/769,800) 2018-11-20</p>	<p style="text-align: center;">[21] 3,120,393 [13] A1</p> <p>[51] Int.Cl. C07K 7/06 (2006.01) C07K 1/00 (2006.01) C07K 1/107 (2006.01) C12N 15/11 (2006.01) C40B 30/04 (2006.01) C40B 40/02 (2006.01) C40B 40/10 (2006.01) C40B 50/06 (2006.01) C40B 70/00 (2006.01)</p> <p>[25] EN</p> <p>[54] GENETICALLY-ENCODED MACROCYCLIC PEPTIDE LIBRARIES BEARING A PHARMACOPHORE</p> <p>[54] BANQUES PEPTIDIQUES MACROCYCLIQUES PORTANT UN PHARMACOPHORE</p> <p>[72] DERDA, RATMIR, CA</p> <p>[72] MUKHERJEE, RAJA, CA</p> <p>[72] EKANAYAKE, ARUNIKA, CA</p> <p>[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA</p> <p>[85] 2021-05-18</p> <p>[86] 2019-11-28 (PCT/CA2019/051703)</p> <p>[87] (WO2020/107118)</p> <p>[30] US (62/772,339) 2018-11-28</p>	<p style="text-align: center;">[21] 3,120,395 [13] A1</p> <p>[51] Int.Cl. C22B 3/10 (2006.01) C22B 15/00 (2006.01)</p> <p>[25] EN</p> <p>[54] SOLID-LIQUID-SOLID HYDROMETALLURGICAL METHOD FOR THE SOLUBILIZATION OF METALS FROM SULFIDE COPPER MINERALS AND/OR CONCENTRATES</p> <p>[54] PROCEDE HYDRO-METALLURGIQUE SOLIDE-LIQUIDE-SOLIDE POUR LA SOLUBILISATION DE METAUX A PARTIR DE MINERAUX ET/OU DE CONCENTRES SULFURES DE CUIVRE</p> <p>[72] CORTES CORTES, RODRIGO ANDRES, CL</p> <p>[71] NOVA MINERALIS S.A., CL</p> <p>[85] 2021-05-13</p> <p>[86] 2019-10-29 (PCT/IB2019/059258)</p> <p>[87] (WO2020/099966)</p> <p>[30] IB (PCT/IB2018/058969) 2018-11-14</p>

PCT Applications Entering the National Phase

[21] **3,120,396**
[13] A1

[51] **Int.Cl. A61K 8/42 (2006.01) A61K 8/04 (2006.01) A61K 8/92 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING OXALAMIDE GELATORS AND VEGETABLE OIL**
[54] **COMPOSITION COMPRENANT DES AGENTS DE GELIFICATION OXALAMIDE ET DE L'HUILE VEGETALE**
[72] SIJAKOVIC VUJICIC, NATASA, HR
[72] JERIC, IVANKA, HR
[72] SUC SAJKO, JOSIPA, HR
[72] RADOSEVIC, PETRA, HR
[71] RUDJER BOSKOVIC INSTITUTE, HR
[85] 2021-05-18
[86] 2018-12-17 (PCT/EP2018/085216)
[87] (WO2020/125926)

[21] **3,120,397**
[13] A1

[51] **Int.Cl. A23K 10/00 (2016.01) C07C 49/84 (2006.01) C07C 51/367 (2006.01) C07C 65/40 (2006.01)**
[25] EN
[54] **APPLICATIONS OF DIPHENYLPROPENONE COMPOUND IN PREPARING ANIMAL FEED ADDITIVE OR ANIMAL FEED**
[54] **APPLICATIONS DE COMPOSE DE DIPHENYLPROPENONE DANS LA PREPARATION D'UN ADDITIF ALIMENTAIRE POUR ANIMAUX OU D'UN ALIMENT POUR ANIMAUX**
[72] PENG, XIANFENG, CN
[72] HUANG, HUACHENG, CN
[71] PENG, XIANFENG, CN
[85] 2021-05-18
[86] 2018-11-19 (PCT/CN2018/116274)
[87] (WO2020/102952)

[21] **3,120,398**
[13] A1

[51] **Int.Cl. H04W 76/15 (2018.01)**
[25] EN
[54] **RESOURCE ESTABLISHING METHOD, AND DEVICE**
[54] **PROCEDE D'ETABLISSEMENT DE RESSOURCES, ET DISPOSITIF**
[72] TANG, HAI, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-05-18
[86] 2019-01-11 (PCT/CN2019/071489)
[87] (WO2020/143061)

[21] **3,120,399**
[13] A1

[51] **Int.Cl. E21B 10/62 (2006.01) E21B 10/08 (2006.01) E21B 10/20 (2006.01)**
[25] EN
[54] **DRILL BIT FOR BORING EARTH AND OTHER HARD MATERIALS**
[54] **TREPAN POUR FORER LA TERRE ET D'AUTRES MATERIAUX DURS**
[72] BROOKS, NATHAN ANDREW, AU
[71] ULTERRA DRILLING TECHNOLOGIES, L.P., US
[85] 2021-05-18
[86] 2019-11-26 (PCT/AU2019/051292)
[87] (WO2020/107063)
[30] AU (2018904497) 2018-11-26

[21] **3,120,400**
[13] A1

[51] **Int.Cl. G02B 6/293 (2006.01) G02B 6/35 (2006.01)**
[25] EN
[54] **WAVELENGTH SELECTIVE SWITCH BASED ON LCOS**
[54] **COMMUTATEUR SELECTIF EN LONGUEUR D'ONDE A BASE DE LCOS**
[72] MAO, LEI, CN
[72] ZONG, LIANGJIA, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-05-18
[86] 2019-06-13 (PCT/CN2019/091120)
[87] (WO2020/107861)
[30] CN (201811413981.7) 2018-11-26

[21] **3,120,401**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **ROBOT-BASED WAREHOUSE ORDER PICKING METHOD, APPARATUS AND SYSTEM, ELECTRONIC DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE DE PREPARATION DE COMMANDE D'INVENTAIRE BASE SUR UN ROBOT, APPAREIL, SYSTEME, ET DISPOSITIF ELECTRONIQUE, ET SUPPORT D'INFORMATIONS**
[72] YANG, ZHIQIN, CN
[72] WAN, QI, CN
[71] SYRIUS ROBOTICS CO., LTD., CN
[85] 2021-05-18
[86] 2018-12-29 (PCT/CN2018/125142)
[87] (WO2020/103296)
[30] CN (201811371579.7) 2018-11-19

[21] **3,120,402**
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) B22F 9/26 (2006.01) C22B 3/00 (2006.01)**
[25] EN
[54] **BATTERY RECYCLING BY HYDROGEN GAS INJECTION IN LEACH**
[54] **RECYCLAGE DE BATTERIE PAR INJECTION D'HYDROGENE GAZEUX DANS UN LIXIVIAT**
[72] ROHDE, WOLFGANG, DE
[72] ADERMANN, TORBEN, DE
[72] GERKE, BIRGIT, DE
[71] BASF SE, DE
[85] 2021-05-18
[86] 2019-11-18 (PCT/EP2019/081608)
[87] (WO2020/109045)
[30] EP (18208229.7) 2018-11-26

[21] **3,120,403**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**
[25] EN
[54] **ROBOT SENSOR ARRANGEMENT SYSTEM**
[54] **SYSTEME D'ARRANGEMENT DE CAPTEUR DE ROBOT**
[72] YANG, ZHIQIN, CN
[71] SYRIUS ROBOTICS CO., LTD., CN
[85] 2021-05-18
[86] 2018-12-29 (PCT/CN2018/125146)
[87] (WO2020/103297)
[30] CN (201821895318.0) 2018-11-19

Demandes PCT entrant en phase nationale

[21] **3,120,404**
[13] A1

[51] **Int.Cl. G05B 19/418 (2006.01)**
[25] EN
[54] **DISTRIBUTED ROBOT SCHEDULING DECISION METHOD, APPARATUS AND SYSTEM, ELECTRONIC DEVICE AND STORAGE MEDIUM**
[54] **DISPOSITIF, PROCEDE ET SYSTEME DE PRISE DE DECISION DE REPARTITION DE ROBOT DISTRIBUE, DISPOSITIF ELECTRONIQUE ET SUPPORT D'ENREGISTREMENT**
[72] YANG, ZHIQIN, CN
[71] SYRIUS ROBOTICS CO., LTD., CN
[85] 2021-05-18
[86] 2018-12-29 (PCT/CN2018/125150)
[87] (WO2020/103298)
[30] CN (201811371589.0) 2018-11-19

[21] **3,120,405**
[13] A1

[51] **Int.Cl. B60L 3/00 (2019.01) B60L 13/03 (2006.01) B60L 15/00 (2006.01)**
[25] EN
[54] **METHOD FOR SECURE MONITORING OF THE FUNCTION OF AN ELECTROMAGNETIC TRANSPORTATION DEVICE**
[54] **PROCEDE DE SURVEILLANCE FIABLE DU FONCTIONNEMENT D'UN DISPOSITIF DE TRANSPORT ELECTROMAGNETIQUE**
[72] HANIS, GERHARD, AT
[72] MAYRHOFER, ANDREAS, AT
[71] B&R INDUSTRIAL AUTOMATION GMBH, AT
[85] 2021-05-18
[86] 2019-11-19 (PCT/EP2019/081795)
[87] (WO2020/104454)
[30] EP (18207059.9) 2018-11-19

[21] **3,120,406**
[13] A1

[51] **Int.Cl. A23L 2/66 (2006.01) A23L 33/18 (2016.01) A23F 3/00 (2006.01) A23L 2/84 (2006.01)**
[25] EN
[54] **BEVERAGES HAVING CLEAR APPEARANCE, SHELF STABILITY, HIGH PROTEIN, AND NEUTRAL PH**
[54] **BOISSONS AYANT UN ASPECT CLAIR, UNE LONGUE DUREE DE CONSERVATION, UNE TENEUR EN PROTEINE ELEVEE ET UN PH NEUTRE**
[72] GEMILI, SEYHUN, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-05-18
[86] 2019-11-06 (PCT/EP2019/080320)
[87] (WO2020/104192)
[30] US (62/769,364) 2018-11-19

[21] **3,120,407**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01) B65G 1/137 (2006.01)**
[25] EN
[54] **ROBOT-BASED SUBAREA LOGISTICS PICKING METHOD AND APPARATUS, TERMINAL, SYSTEM AND STORAGE MEDIUM**
[54] **PROCEDE, DISPOSITIF, TERMINAL ET SYSTEME D'ENLEVEMENT DE ZONAGE LOGISTIQUE REPOSANT SUR UN ROBOT**
[72] WAN, QI, CN
[72] YANG, ZHIQIN, CN
[71] SYRIUS ROBOTICS CO., LTD., CN
[85] 2021-05-18
[86] 2018-12-29 (PCT/CN2018/125156)
[87] (WO2020/103299)
[30] CN (201811371601.8) 2018-11-19

[21] **3,120,408**
[13] A1

[51] **Int.Cl. G01N 33/34 (2006.01) G01N 17/04 (2006.01) G01N 33/487 (2006.01)**
[25] EN
[54] **METHOD FOR ESTIMATING THE VAPOR PHASE CORROSION LOAD**
[54] **PROCEDE D'ESTIMATION DE LA CHARGE DE CORROSION EN PHASE VAPEUR**
[72] KOLARI, MARKO, FI
[72] JOENSUU, IIRIS, FI
[71] KEMIRA OYJ, FI
[85] 2021-05-18
[86] 2019-11-27 (PCT/FI2019/050842)
[87] (WO2020/109660)
[30] FI (20186005) 2018-11-27

[21] **3,120,409**
[13] A1

[51] **Int.Cl. C07K 16/26 (2006.01) C12N 5/20 (2006.01) G01N 33/577 (2006.01) G01N 33/74 (2006.01)**
[25] EN
[54] **SPECIFIC ANTIBODY AGAINST HUMAN ANTI-MULLERIAN HORMONE AND APPLICATION THEREOF**
[54] **ANTICORPS SPECIFIQUE POUR AMH ET SES APPLICATIONS**
[72] XIONG, JUNHUI, CN
[72] CHEN, ZIMIN, CN
[72] XU, WEILING, CN
[72] WANG, LONG, CN
[72] KE, QISHEN, CN
[72] LI, LIHUA, CN
[72] SONG, LIUWEI, CN
[72] SUN, XUDONG, CN
[72] GE, SHENGXIANG, CN
[71] XIAMEN INNODX BIOTECH CO., LTD, CN
[71] XIAMEN UNIVERSITY, CN
[85] 2021-05-18
[86] 2019-11-06 (PCT/CN2019/115998)
[87] (WO2020/103691)
[30] CN (201811382047.3) 2018-11-20

PCT Applications Entering the National Phase

[21] **3,120,410**
[13] A1

[51] **Int.Cl. G09B 9/00 (2006.01) G06Q 10/06 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING ONE OR MORE ACTIONS TO CARRY OUT IN AN ENVIRONMENT**
[54] **PROCEDES ET SYSTEMES POUR DETERMINER UNE OU PLUSIEURS ACTIONS A EFFECTUER DANS UN ENVIRONNEMENT**
[72] MCCONACHIE, ROBERT, GB
[71] THALES HOLDINGS UK PLC, GB
[85] 2021-05-18
[86] 2019-11-19 (PCT/GB2019/053269)
[87] (WO2020/104784)
[30] GB (1819058.7) 2018-11-22

[21] **3,120,411**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A23K 20/147 (2016.01) A23L 33/18 (2016.01) A61K 38/17 (2006.01) A61P 1/00 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS FROM GASTROINTESTINAL TRACT MUCINS AND USES THEREOF**
[54] **COMPOSITIONS DE MUCINES DU TRACTUS GASTRO-INTESTINAL ET UTILISATIONS ASSOCIEES**
[72] ADESOKAN, ADEYEMI, CH
[72] MIAO, YONG, CH
[72] LOPEZ, SARA VIDAL, CH
[71] GNUBIOTICS SCIENCES SA, CH
[85] 2021-05-18
[86] 2019-11-19 (PCT/EP2019/081852)
[87] (WO2020/104486)
[30] US (62/769,555) 2018-11-19
[30] US (62/831,627) 2019-04-09
[30] US (62/880,630) 2019-07-30
[30] US (62/888,436) 2019-08-16

[21] **3,120,413**
[13] A1

[51] **Int.Cl. G01B 11/25 (2006.01)**
[25] EN
[54] **PROJECTION APPARATUS, COLLECTION APPARATUS, AND THREE-DIMENSIONAL SCANNING SYSTEM WITH SAME**
[54] **DISPOSITIF DE PROJECTION, DISPOSITIF D'ACQUISITION ET SYSTEME DE BALAYAGE TRIDIMENSIONNEL COMPRENANT CES DERNIERS**
[72] MA, CHAO, CN
[72] YE, ZI, CN
[71] SHINING3D TECHNOLOGY CO., LTD., CN
[85] 2021-05-18
[86] 2019-11-19 (PCT/CN2019/119446)
[87] (WO2020/103822)
[30] CN (201811378663.1) 2018-11-19

[21] **3,120,414**
[13] A1

[51] **Int.Cl. G06Q 50/30 (2012.01) G06T 19/00 (2011.01) H04N 21/2187 (2011.01) H04N 21/2743 (2011.01) H04N 21/81 (2011.01) G06F 3/0481 (2013.01) G01C 21/36 (2006.01) G06K 9/00 (2006.01) G08G 1/00 (2006.01)**
[25] EN
[54] **MUTUAL AUGMENTED REALITY EXPERIENCE FOR USERS IN A NETWORK SYSTEM**
[54] **EXPERIENCE DE REALITE AUGMENTEE MUTUELLE POUR DES UTILISATEURS DANS UN SYSTEME DE RESEAU**
[72] ROGAN, AARON MATTHEW, US
[72] LEUNG, WES, US
[72] BELMONTE, NICOLAS GARCIA, US
[71] UBER TECHNOLOGIES, INC., US
[85] 2021-05-18
[86] 2019-01-24 (PCT/IB2019/050612)
[87] (WO2020/104857)
[30] US (16/197,243) 2018-11-20

[21] **3,120,415**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **AN INTERMITTENT URINARY CATHETER**
[54] **CATHETER URINAIRE INTERMITTENT**
[72] HEDE, ANDERS WILHELM, DK
[72] SOERENSEN, CAECILIE, DK
[72] MOLLESKOV, LASSE HYLLEBERG, DK
[72] OEELUND, JAKOB, DK
[72] PEDERSEN, TROELS GOTTFRIED, DK
[71] COLOPLAST A/S, DK
[85] 2021-05-18
[86] 2019-11-21 (PCT/DK2019/050363)
[87] (WO2020/103996)
[30] DK (PA 2018 00892) 2018-11-21

[21] **3,120,416**
[13] A1

[51] **Int.Cl. A01K 61/13 (2017.01)**
[25] EN
[54] **SYSTEM FOR BATHING FISH IN MARINE FISH FARMS**
[54] **SYSTEME AQUATIQUE POUR POISSON DANS DES FERMES PISCICOLES MARINES**
[72] RESSEM, GEIR TERJE, NO
[72] TRENGEREID, HENRIK, NO
[71] AKVAFRESH AS, NO
[71] MARINE HARVEST ASA, NO
[85] 2021-05-18
[86] 2019-11-21 (PCT/EP2019/082124)
[87] (WO2020/104604)
[30] NO (20181509) 2018-11-23

[21] **3,120,417**
[13] A1

[51] **Int.Cl. G06F 21/00 (2013.01) H04L 9/00 (2006.01)**
[25] EN
[54] **DATA SECURITY AND OBFUSCATION USING EXTREMELY LARGE INTEGERS**
[54] **SECURITE ET OBSCURCISSEMENT DE DONNEES A L'AIDE DE NOMBRES ENTIERS EXTREMEMENT GRANDS**
[72] KHAN, MOHAMMED NAWAZ, IN
[71] KHAN, MOHAMMED NAWAZ, IN
[85] 2021-05-18
[86] 2019-02-13 (PCT/IB2019/051144)
[87] (WO2020/104858)
[30] IN (201841043588) 2018-11-20

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[21] **3,120,418**
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01)**
[25] FR
[54] **METHOD FOR AIDING THE MASKING OF WORKPIECE SURFACES TO BE PAINTED OR TREATED**
[54] **PROCEDE D'AIDE AU MASQUAGE DE SURFACES DE PIECES A PEINDRE OU TRAITER**
[72] GRASSER, MICKAEL, FR
[71] SAFRAN LANDING SYSTEMS, FR
[85] 2021-05-18
[86] 2019-11-26 (PCT/EP2019/082638)
[87] (WO2020/109337)
[30] FR (1871951) 2018-11-27

[21] **3,120,420**
[13] A1

[51] **Int.Cl. B65D 21/02 (2006.01)**
[25] FR
[54] **RECEPTACLE FOR FOOD AND/OR BEVERAGES**
[54] **RECIPIENT POUR ALIMENTS ET/OU BOISSONS**
[72] DE BLOOS, MICHEL, BE
[71] KIOBOX SRL, BE
[85] 2021-05-18
[86] 2019-11-29 (PCT/EP2019/083138)
[87] (WO2020/109578)
[30] BE (BE2018/5842) 2018-11-29

[21] **3,120,421**
[13] A1

[51] **Int.Cl. G01N 33/574 (2006.01) A61K 35/761 (2015.01)**
[25] EN
[54] **METHOD FOR PREDICTING THE CLINICAL RESPONSE OF ONCOLYTIC PARVOVIRUS H1 (H-IPV) TREATMENT IN A PATIENT SUSPECTED OF SUFFERING FROM CANCER BY MEASURING THE EXPRESSION LEVELS OF LAMININS AND/OR GALECTINS AS BIOMARKERS IN A PATIENT'S SAMPLE**
[54] **METHODE DE PREDICTION DE LA REPOSE CLINIQUE D'UN TRAITEMENT PAR PARVOVIRUS H1 ONCOLYTIQUE (H-IPV) CHEZ UN PATIENT SUSPECTE D'ETRE ATTEINT D'UN CANCER PAR LA MESURE DES NIVEAUX D'EXPRESSION DE LAMININES ET/OU DE GALECTINES EN TANT QUE BIOMARQUEURS DANS UN ECHANTILLON D'UN PATIENT**
[72] MARCHINI, ANTONIO, LU
[72] KULKARNI, AMIT, DE
[72] GREWENIG, ANNABEL, DE
[72] ROMMELAERE, JEAN, DE
[72] MARTTILA, TIINA, DE
[72] FERREIRA, TIAGO, DE
[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM STIFTUNG DES OFFENTLICHEN RECHTS, DE
[85] 2021-05-18
[86] 2019-11-14 (PCT/EP2019/081368)
[87] (WO2020/104294)
[30] EP (18207749.5) 2018-11-22

[21] **3,120,422**
[13] A1

[51] **Int.Cl. H04W 28/02 (2009.01) H04W 76/00 (2018.01)**
[25] EN
[54] **SERVICE INSTANCE INDICATION FOR RESOURCE CREATION**
[54] **INDICATION D'INSTANCE DE SERVICE POUR LA CREATION DE RESSOURCES**
[72] CHEN, QIAN, SE
[72] HEDMAN, PETER, SE
[72] ZHU, JINYIN, CN
[72] GAN, JUYING, CN
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2021-05-18
[86] 2019-05-30 (PCT/IB2019/054503)
[87] (WO2020/104861)
[30] CN (PCT/CN2018/116113) 2018-11-19

[21] **3,120,423**
[13] A1

[51] **Int.Cl. G06F 21/55 (2013.01) H04L 29/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BEHAVIORAL THREAT DETECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE MENACE COMPORTEMENTALE**
[72] DICHIU, DANIEL, RO
[72] NICULAE, STEFAN, RO
[72] BOSINCEANU, ELENA A., RO
[72] ZAMFIR, SORINA N., RO
[72] DINCU, ANDREEA, RO
[72] APOSTOAE, ANDREI A., RO
[71] BITDEFENDER IPR MANAGEMENT LTD, CY
[85] 2021-05-18
[86] 2019-12-10 (PCT/EP2019/084312)
[87] (WO2020/120429)
[30] US (16/215,251) 2018-12-10

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[21] **3,120,424**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) H04W 12/02 (2009.01) G06F 21/55 (2013.01) H04L 29/08 (2006.01)**

[25] EN

[54] **PARENTAL CONTROL SYSTEMS AND METHODS FOR DETECTING AN EXPOSURE OF CONFIDENTIAL INFORMATION**

[54] **SYSTEMES DE CONTROLE PARENTAL ET PROCEDES DE DETECTION D'EXPOSITION D'INFORMATIONS CONFIDENTIELLES**

[72] MINEA, CRISTIAN, RO

[72] ION, CRISTIAN, RO

[72] MIRON, ADRIAN, RO

[72] ZAVOIU, VIOREL, RO

[72] HOLBAN, LIVIU A., RO

[72] BUGOIU, BOGDAN, RO

[71] BITDEFENDER IPR MANAGEMENT LTD, CY

[85] 2021-05-18

[86] 2020-01-20 (PCT/EP2020/051292)

[87] (WO2020/152108)

[30] US (62/794,856) 2019-01-21

[30] US (16/746,675) 2020-01-17

[21] **3,120,425**
[13] A1

[51] **Int.Cl. A24F 40/57 (2020.01)**

[25] EN

[54] **TEMPERATURE CONTROL IN AN AEROSOL DELIVERY DEVICE**

[54] **REGULATION DE LA TEMPERATURE DANS UN DISPOSITIF DE DISTRIBUTION D'AEROSOL**

[72] NOVAK, III, CHARLES JACOB, US

[72] DAUGHERTY, SEAN A., US

[72] GALLOWAY, MICHAEL RYAN, US

[72] WOOD, JASON L., US

[72] FRISBEE, MARK, US

[72] LAMB, WILSON CHRISTOPHER, US

[72] HENRY, JR., RAYMOND CHARLES, US

[72] FINDIKLI, NADI, US

[71] RAI STRATEGIC HOLDINGS, INC., US

[85] 2021-05-18

[86] 2019-10-31 (PCT/IB2019/059373)

[87] (WO2020/104875)

[30] US (62/769,296) 2018-11-19

[30] US (62/911,595) 2019-10-07

[30] US (16/668,929) 2019-10-30

[21] **3,120,426**
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01)**

[25] EN

[54] **POWER CONTROL FOR AN AEROSOL DELIVERY DEVICE**

[54] **COMMANDE DE PUISSANCE POUR UN DISPOSITIF DE DISTRIBUTION D'AEROSOL**

[72] NOVAK, III, CHARLES JACOB, US

[72] DAUGHERTY, SEAN A., US

[72] GALLOWAY, MICHAEL RYAN, US

[72] WOOD, JASON L., US

[72] FERGUSON, MATTHEW, US

[72] CARPENTER, AUSTIN, US

[72] LAMB, WILSON CHRISTOPHER, US

[72] HENRY, RAYMOND CHARLES, JR., US

[71] RAI STRATEGIC HOLDINGS, INC., US

[85] 2021-05-18

[86] 2019-10-31 (PCT/IB2019/059369)

[87] (WO2020/104874)

[30] US (62/769,296) 2018-11-19

[30] US (62/911,727) 2019-10-07

[30] US (16/669,031) 2019-10-30

[21] **3,120,428**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23L 7/117 (2016.01) A23L 27/00 (2016.01) A23L 29/25 (2016.01) A23L 29/281 (2016.01) A23L 33/00 (2016.01)**

[25] EN

[54] **COMPOSITION FOR THE PREPARATION OF FOOD PRODUCTS FOR SUBJECTS WITH SWALLOWING DIFFICULTY**

[54] **COMPOSITION POUR LA PREPARATION DE PRODUITS ALIMENTAIRES POUR DES SUJETS A DIFFICULTE DE DEGLUTITION**

[72] ZANINI, MILKO, IT

[72] SASSO, LOREDANA, IT

[72] BAGNASCO, ANNAMARIA, IT

[72] CATANIA, GIANLUCA, IT

[72] ICARDI, GIANCARLO, IT

[72] OPPI, MATTEO, IT

[72] ROMANO, ANTONIO ROSARIO, IT

[72] RIPAMONTI, STEFANIA, IT

[71] HEALTHY AGING RESEARCH GROUP SOCIETA BENEFIT S.R.L. IN SIGLA H.A.R.G. S.R.L., IT

[85] 2021-05-18

[86] 2019-11-26 (PCT/IB2019/060158)

[87] (WO2020/109988)

[30] IT (102018000010674) 2018-11-29

[21] **3,120,429**
[13] A1

[51] **Int.Cl. A61K 33/42 (2006.01) A61K 9/00 (2006.01) A61P 3/12 (2006.01)**

[25] EN

[54] **MINERAL SUPPLEMENTS FOR RUMINANT NUTRITION**

[54] OLSON, MERLE, CA

[71] ALBERTA VETERINARY LABORATORIES LTD., CA

[85] 2021-05-31

[86] 2020-12-11 (PCT/CA2020/051708)

[87] (3120429)

[30] US (62/947,329) 2019-12-12

[21] **3,120,430**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **SIX-MEMBERED FUSED WITH SIX-MEMBERED HETEROCYCLIC COMPOUND AND USES THEREOF SERVING AS PROTEIN RECEPTOR KINASE INHIBITOR**

[54] **COMPOSE HETEROCYCLIQUE A SIX CHAINONS ET SIX CHAINONS, ET UTILISATIONS ASSOCIEES EN TANT QU'INHIBITEUR DU RECEPTEUR DE PROTEINE KINASE**

[72] JIANG, LEI, CN

[72] FENG, ZHIYONG, CN

[72] JIN, XIAN, CN

[72] QIAO, ZHI, CN

[72] SHOU, JIANYONG, CN

[72] SHANG, KE, CN

[72] WU, DANYI, CN

[72] XU, LINGLING, CN

[72] XU, YUAN, CN

[72] ZHANG, SHUYUN, CN

[72] ZHANG, YI, CN

[72] ZHANG, YUXING, CN

[71] SHANGHAI ENNOVABIO PHARMACEUTICALS CO., LTD., CN

[85] 2021-05-13

[86] 2019-11-13 (PCT/CN2019/118217)

[87] (WO2020/098723)

[30] CN (201811348040.X) 2018-11-13

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[21] **3,120,431**
[13] A1

[51] **Int.Cl. B26B 21/56 (2006.01)**
[25] EN
[54] **RAZOR**
[54] **RASOIR**
[72] HALEY, CHRISTOPHER DARREN,
GB
[71] BRENGOR INNOVATION LTD, GB
[85] 2021-05-18
[86] 2019-12-06 (PCT/IB2019/060523)
[87] (WO2020/128706)
[30] GB (1820916.3) 2018-12-21

[21] **3,120,432**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) A61K 35/12 (2015.01) A61K 48/00 (2006.01) C12N 15/52 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **CRISPR-CAS12J ENZYME AND SYSTEM**
[54] **ENZYME CRISPR-CAS12J ET SYSTEME**
[72] LAI, JINSHENG, CN
[72] ZHOU, YINGSI, CN
[72] LI, YINGNAN, CN
[72] ZHANG, JIHONG, CN
[72] WANG, YINGYING, CN
[72] LYU, MENGLU, CN
[72] ZHANG, XIANGBO, CN
[72] ZHAO, HAIMING, CN
[72] SONG, WEIBIN, CN
[71] CHINA AGRICULTURAL UNIVERSITY, CN
[85] 2021-05-13
[86] 2019-11-15 (PCT/CN2019/118702)
[87] (WO2020/098772)
[30] CN (201811355943.0) 2018-11-15

[21] **3,120,433**
[13] A1

[51] **Int.Cl. B66C 23/76 (2006.01) B66C 23/72 (2006.01)**
[25] EN
[54] **LUFFING CRANE FEATURING TIPPING OVER BALANCE**
[54] **GRUE A PORTEE VARIABLE PRESENTANT UN EQUILIBRE DE BASCULEMENT**
[72] CARMEL, AVIV, IL
[71] SKY-LINE CRANES & TECHNOLOGIES LTD., IL
[85] 2021-05-18
[86] 2019-11-17 (PCT/IL2019/051252)
[87] (WO2020/100145)
[30] IL (263088) 2018-11-18

[21] **3,120,434**
[13] A1

[51] **Int.Cl. B25J 11/00 (2006.01) A61F 2/60 (2006.01) A61F 2/70 (2006.01)**
[25] EN
[54] **LOAD REDUCTION DEVICE, LOAD REDUCTION METHOD, AND STORAGE MEDIUM FOR STORING PROGRAM THEREIN**
[54] **DISPOSITIF DE REDUCTION DE CHARGE, PROCEDE DE REDUCTION DE CHARGE ET SUPPORT DE STOCKAGE STOCKANT UN PROGRAMME**
[72] OOKOBA, TADASHI, JP
[71] NEC CORPORATION, JP
[85] 2021-05-18
[86] 2019-11-08 (PCT/JP2019/043800)
[87] (WO2020/105462)
[30] JP (2018-219220) 2018-11-22

[21] **3,120,437**
[13] A1

[51] **Int.Cl. C01B 25/06 (2006.01) A01N 25/00 (2006.01) A01N 25/20 (2006.01) A01N 61/00 (2006.01) A01P 7/04 (2006.01) C07F 9/06 (2006.01)**
[25] EN
[54] **PHOSPHINE FOR FUMIGATION, METHOD FOR PRODUCING SAME, AND FUMIGATION METHOD**
[54] **PHOSPHINE POUR FUMIGATION, SA METHODE DE PRODUCTION ET METHODE DE FUMIGATION**
[72] KAWASE, HIROYA, JP
[71] NIPPON CHEMICAL INDUSTRIAL CO., LTD., JP
[85] 2021-05-18
[86] 2019-12-20 (PCT/JP2019/050165)
[87] (WO2020/137905)
[30] JP (2018-245736) 2018-12-27

[21] **3,120,438**
[13] A1

[51] **Int.Cl. B29B 7/20 (2006.01) B29C 48/92 (2019.01) B29B 7/28 (2006.01)**
[25] EN
[54] **KNEADING DEVICE**
[54] **DISPOSITIF DE MALAXAGE**
[72] YAMANE, YASUAKI, JP
[72] HAMADA, HIKARU, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBELCO STEEL, LTD.), JP
[85] 2021-05-18
[86] 2019-11-20 (PCT/JP2019/045441)
[87] (WO2020/137270)
[30] JP (2018-246485) 2018-12-28

[21] **3,120,439**
[13] A1

[51] **Int.Cl. E01C 3/00 (2006.01) A63C 19/04 (2006.01) E01C 5/22 (2006.01) E01C 13/00 (2006.01) E01C 13/02 (2006.01) E01C 13/08 (2006.01) E02D 27/02 (2006.01) E03F 1/00 (2006.01)**
[25] EN
[54] **SPORTS FIELD AND METHODS FOR FORMING AND OPERATING THE SAME**
[54] **TERRAIN DE SPORT, ET SES PROCEDES DE FORMATION ET DE FONCTIONNEMENT**
[72] VAN RAAM, CAROLUS HERMANUS, NL
[71] DUTCHBLUE WORLD B.V., NL
[85] 2021-05-18
[86] 2019-11-20 (PCT/NL2019/050760)
[87] (WO2020/106145)
[30] EP (18207290.0) 2018-11-20

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[21] **3,120,440**
[13] A1

[51] **Int.Cl. B65G 47/24 (2006.01)**
[25] EN
[54] **SINGULATING AND ORIENTING OBJECTS FOR FEEDING**
[54] **SEPARATION ET ORIENTATION D'OBJETS DESTINES A ETRE ALIMENTES**
[72] PRYSTUPA, DAVID, CA
[72] PACAK, JOHN, CA
[71] 9754741 CANADA LTD., CA
[85] 2020-09-21
[86] 2019-04-15 (PCT/CA2019/050462)
[87] (WO2019/195946)
[30] US (62/657,068) 2018-04-13

[21] **3,120,441**
[13] A1

[51] **Int.Cl. F24D 13/02 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **A PANEL AND AN ELECTRICAL END CONNECTOR, A METHOD FOR COUPLING OF PANELS AND A HEATING SYSTEM**
[54] **PANNEAU ET CONNECTEUR D'EXTREMITE ELECTRIQUE, PROCEDE DE COUPLAGE DE PANNEAUX ET SYSTEME DE CHAUFFAGE**
[72] LOFHOLM, HAKAN JOHAN, SE
[72] NYSTROM, TAISTO KALEVI, SE
[71] HEAT CLICK COMPANY AB, SE
[85] 2021-05-18
[86] 2019-11-14 (PCT/SE2019/051153)
[87] (WO2020/106202)
[30] SE (1851449-7) 2018-11-22

[21] **3,120,443**
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01) F24D 19/10 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR BALANCING MASS FLOW DURING PRODUCTION FAILURE OR INSUFFICIENCY IN A DISTRICT HEATING NETWORK**
[54] **PROCEDE ET SYSTEME D'EQUILIBRAGE DE DEBIT MASSIQUE PENDANT UNE DEFAILLANCE OU UNE INSUFFISANCE DE PRODUCTION DANS UN RESEAU DE CHAUFFAGE URBAIN**
[72] HAMP, QUIRIN, SE
[71] STOCKHOLM EXERGI AB, SE
[85] 2021-05-18
[86] 2019-11-21 (PCT/SE2019/051180)
[87] (WO2020/106210)
[30] SE (1851448-9) 2018-11-22

[21] **3,120,444**
[13] A1

[51] **Int.Cl. C22B 1/00 (2006.01) B07C 5/344 (2006.01) G01N 24/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SORTING AND COLLECTING ENHANCED METAL-BEARING ORES OF A DESIRED SIZE FROM METAL-BEARING ORES**
[54] **SYSTEMES ET PROCEDES DE TRI ET DE COLLECTE DE MINERAIS METALLIFERES AMELIORES D'UN CALIBRE SOUHAITE A PARTIR DE MINERAIS METALLIFERES**
[72] SHAW, DANIEL, US
[72] SAVILLE, JAMES, US
[71] CD PROCESSING LTD., GB
[85] 2021-05-18
[86] 2019-11-05 (PCT/IB2019/059505)
[87] (WO2020/109893)
[30] US (62/771,280) 2018-11-26
[30] US (16/582,104) 2019-09-25

[21] **3,120,446**
[13] A1

[51] **Int.Cl. E21B 47/00 (2012.01) E21B 41/00 (2006.01) E21B 47/12 (2012.01)**
[25] EN
[54] **REMOTELY LOCATING A BLOCKAGE IN A PIPELINE FOR TRANSPORTING HYDROCARBON FLUIDS**
[54] **LOCALISATION A DISTANCE D'UN BLOCAGE DANS UNE CANALISATION DE TRANSPORT DE FLUIDES HYDROCARBONES**
[72] JAGANNATHAN, SRINIVASAN, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-05-18
[86] 2019-07-10 (PCT/US2019/041179)
[87] (WO2020/162964)
[30] US (62/800,970) 2019-02-04

[21] **3,120,447**
[13] A1

[51] **Int.Cl. F16L 39/02 (2006.01) E21B 43/013 (2006.01) F16L 1/26 (2006.01)**
[25] EN
[54] **JUNCTION BOX FOR CONNECTING TWO UMBILICAL SECTIONS**
[54] **BOITE DE RACCORDEMENT POUR RACCORDER DEUX SEGMENTS D'OMBILICAUX**
[72] FIORENZA DE LIMA, HENRI, BR
[72] LOSCHIAVO, ROBERTO, BR
[72] ALVES FERREIRA, LUIS FERNANDO, BR
[72] GERALDO PAPPEN, GUSTAVO, BR
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR
[85] 2021-05-19
[86] 2019-11-21 (PCT/BR2019/050499)
[87] (WO2020/102873)
[30] BR (BR 102018073829-1) 2018-11-21

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[21] **3,120,448**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01)**
[25] EN
[54] **CENTRALIZED AUTHENTICATION AND AUTHORIZATION WITH CERTIFICATE MANAGEMENT**

[54] **AUTHENTICIFICATION ET AUTORISATION CENTRALISEES AVEC GESTION DE CERTIFICAT**

[72] KESELMEN, GLEB, US
[72] SHEFFER, YARON, US
[72] ROOZ, MICHAEL, US
[71] INTUIT INC., US
[85] 2021-05-18
[86] 2019-07-26 (PCT/US2019/043783)
[87] (WO2020/247000)
[30] US (16/429,631) 2019-06-03

[21] **3,120,449**
[13] A1

[51] **Int.Cl. G01F 23/292 (2006.01) H04W 4/12 (2009.01) H04W 4/38 (2018.01) G01S 7/481 (2006.01) G08C 17/02 (2006.01)**

[25] EN
[54] **BIN LEVEL MONITORING SYSTEM**

[54] **SYSTEME DE SURVEILLANCE DE NIVEAU DE SILO**

[72] SCHWARTZENTRUBER, RANDALL, CA
[71] BINSENTRY INC., CA
[85] 2021-05-19
[86] 2019-07-31 (PCT/CA2019/051044)
[87] (WO2020/102879)
[30] US (62/770,897) 2018-11-23

[21] **3,120,450**
[13] A1

[51] **Int.Cl. B66F 7/28 (2006.01) B66F 3/36 (2006.01) B66F 3/46 (2006.01) B66F 7/20 (2006.01)**

[25] EN
[54] **HEAVY MACHINERY LIFTING APPARATUS, HEAVY MACHINERY LIFTING ASSEMBLY AND METHOD FOR ASSEMBLING A LIFT FOR HEAVY MACHINERY**

[54] **APPAREIL DE LEVAGE DE MACHINE LOURDE, ENSEMBLE DE LEVAGE DE MACHINE LOURDE ET PROCEDE D'ASSEMBLAGE DE DISPOSITIF DE LEVAGE POUR MACHINE LOURDE**

[72] BELLEY, ROBIN, CA
[72] BIENVENU, CHARLES-ETIENNE, CA

[72] SYLVESTRE, PATRICK, CA
[71] 8082464 CANADA INC., CA
[85] 2021-05-19
[86] 2019-11-19 (PCT/CA2019/051648)
[87] (WO2020/102890)
[30] US (62/770,877) 2018-11-23

[21] **3,120,453**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 47/14 (2017.01) A61K 47/44 (2017.01)**

[25] EN
[54] **OPHTHALMIC FORMULATIONS PROVIDING DURABLE OCULAR LUBRICATION**

[54] **FORMULATIONS OPHTALMIQUES FOURNISSANT UNE LUBRIFICATION OCULAIRE DURABLE**

[72] WILLIS, TIMOTHY R., US
[72] STONE, RALPH P., US
[71] ETERNATEAR, INC., US
[85] 2021-05-18
[86] 2019-12-09 (PCT/US2019/065191)
[87] (WO2020/123362)
[30] US (62/777,588) 2018-12-10

[21] **3,120,454**
[13] A1

[51] **Int.Cl. A61K 38/19 (2006.01) A61K 39/395 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01)**

[25] EN
[54] **METHODS OF TREATING AN AUTOIMMUNE DISEASE**

[54] **METHODES DE TRAITEMENT D'UNE MALADIE AUTO-IMMUNE**

[72] GOMMERMAN, JENNIFER, CA
[72] ROJAS, OLGA, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[71] F. HOFFMANN-LA ROCHE LTD, CH
[85] 2021-05-19
[86] 2019-11-20 (PCT/CA2019/051653)
[87] (WO2020/102895)
[30] US (62/770,408) 2018-11-21

[21] **3,120,455**
[13] A1

[51] **Int.Cl. A24F 40/00 (2020.01)**

[25] EN
[54] **AEROSOL DELIVERY DEVICE**

[54] **DISPOSITIF DE DISTRIBUTION D'AEROSOL**

[72] NOVAK, III, CHARLES JACOB, US
[72] DAUGHERTY, SEAN A., US
[72] GALLOWAY, MICHAEL RYAN, US
[72] HOLT, JUSTIN, US
[71] RAI STRATEGIC HOLDINGS, INC., US
[85] 2021-05-18
[86] 2019-11-06 (PCT/IB2019/059556)
[87] (WO2020/104880)
[30] US (62/769,296) 2018-11-19
[30] US (16/674,502) 2019-11-05

PCT Applications Entering the National Phase

[21] **3,120,456**
[13] A1

[51] **Int.Cl. H05B 47/00 (2020.01) A61L 2/10 (2006.01) H03K 3/00 (2006.01)**

[25] EN

[54] **A PERFORMANCE IMPROVEMENT UNIT FOR PULSED-ULTRAVIOLET DEVICES**

[54] **UNITE D'AMELIORATION DES PERFORMANCES POUR DISPOSITIFS AUX ULTRAVIOLETS PULSES**

[72] RAMANAND, PRAKASH VALENTINO, CA

[72] DHILLON, MANJINDER SINGH, CA

[72] RAMANAND, PRAKASH VALENTINO, CA

[71] ANRAM HOLDINGS, CA

[85] 2021-05-19

[86] 2019-11-20 (PCT/CA2019/051656)

[87] (WO2020/102896)

[30] US (62/769,779) 2018-11-20

[21] **3,120,460**
[13] A1

[51] **Int.Cl. A45C 13/18 (2006.01) A45C 13/20 (2006.01) A45F 3/04 (2006.01)**

[25] EN

[54] **SECURE PORTABLE ENCASUREMENT**

[54] **CONTENANT PORTATIF SECURISE**

[72] MCLEAN, HUGH DAVID GEOFFREY, GB

[72] ENGLISH, NIALL, IE

[71] EVERS SAFE TECHNOLOGIES LIMITED, GB

[85] 2021-05-19

[86] 2019-04-11 (PCT/EP2019/059343)

[87] (WO2019/197576)

[30] US (62/656,002) 2018-04-11

[21] **3,120,461**
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 39/00 (2006.01)**

[25] EN

[54] **ANTI-SNAGGING INFUSION SETS**

[54] **ENSEMBLES DE PERFUSION ANTI-ACCROCS**

[72] SUWITO, WANTJINARJO, US

[72] CHRISTENSEN, COREY, US

[72] ZOLLINGER, CHRISTOPHER, US

[71] CAREFUSION 303, INC., US

[85] 2021-05-18

[86] 2019-12-12 (PCT/US2019/065894)

[87] (WO2020/131548)

[30] US (16/224,577) 2018-12-18

[21] **3,120,463**
[13] A1

[51] **Int.Cl. A23L 33/105 (2016.01) A23L 33/115 (2016.01) A23L 33/12 (2016.01) A23P 10/30 (2016.01) A61K 9/107 (2006.01) A61K 9/51 (2006.01)**

[25] EN

[54] **MULTI-LAYERED PARTICLES**

[54] **PARTICULES MULTICOUCHES**

[72] ZANONI, FRANCESCA, IT

[72] ZOCCATELLI, GIANNI, IT

[72] VAKARELOVA, MARTINA, IT

[72] CHIGNOLA, ROBERTO, IT

[71] SPHERA ENCAPSULATION SRL, IT

[85] 2021-05-18

[86] 2019-11-20 (PCT/IB2019/059991)

[87] (WO2020/104970)

[30] US (62/769,642) 2018-11-20

[21] **3,120,466**
[13] A1

[51] **Int.Cl. A61K 38/03 (2006.01) A61K 49/00 (2006.01) A61P 43/00 (2006.01) C07K 7/08 (2006.01) C07K 9/00 (2006.01)**

[25] EN

[54] **TRANSFERRIN RECEPTOR TARGETING PEPTIDES**

[54] **PEPTIDES CIBLANT UN RECEPTEUR DE LA TRANSFERRINE**

[72] CROOK, ZACHARY, US

[72] BRUSNIAK, MI-YOUN, US

[72] OLSON, JAMES, US

[72] MHYRE, ANDREW JAMES, US

[72] YIN, CHUNFENG, US

[72] HOPPING, GENE GREGORY, US

[72] STRONG, ROLAND, US

[71] FRED HUTCHINSON CANCER RESEARCH CENTER, US

[85] 2021-05-18

[86] 2019-12-13 (PCT/US2019/066376)

[87] (WO2020/124032)

[30] US (62/779,885) 2018-12-14

[30] US (62/836,520) 2019-04-19

[21] **3,120,468**
[13] A1

[51] **Int.Cl. H04W 4/00 (2018.01) H04W 68/00 (2009.01) H04W 12/72 (2021.01)**

[25] EN

[54] **MULTI-USER TIME TRACKING MESH NETWORK**

[54] **RESEAU MAILLE A SUIVI TEMPOREL MULTI-UTILISATEUR**

[72] MCINTYRE, NATHAN A., US

[72] SHIVELY, DEVIN, US

[72] YUNDT, JOSHUA ANDREW, US

[71] INTUIT INC., US

[85] 2021-05-18

[86] 2020-06-02 (PCT/US2020/035631)

[87] (WO2021/002991)

[30] US (16/502,851) 2019-07-03

[21] **3,120,469**
[13] A1

[51] **Int.Cl. G06F 21/55 (2013.01) G06F 21/50 (2013.01) G06N 20/00 (2019.01) H04L 29/02 (2006.01)**

[25] EN

[54] **THREAT DETECTION PLATFORMS FOR DETECTING, CHARACTERIZING, AND REMEDIATING EMAIL-BASED THREATS IN REAL TIME**

[54] **PLATES-FORMES DE DETECTION DE MENACES PERMETTANT DE DETECTER, DE CARACTERISER ET DE REMEDIER A DES MENACES BASEES SUR UN COURRIER ELECTRONIQUE EN TEMPS REEL**

[72] JEYAKUMAR, SANJAY, US

[72] BRATMAN, JESHUA, US

[72] CHECHIK, DMITRY, US

[72] BAGRI, ABHIJIT, US

[72] REISER, EVAN, US

[72] LIAO, SANNY XIAO YANG, US

[72] LEE, YU ZHOU, US

[72] GASPERI, CARLOS DANIEL, US

[72] LAU, KEVIN, US

[72] JIANG, KAI JING, US

[72] TAN, SU LI DEBBIE, US

[72] KAO, JEREMY, US

[72] YEH, CHENG-LIN, US

[71] ABNORMAL SECURITY CORPORATION, US

[85] 2021-05-18

[86] 2019-12-18 (PCT/US2019/067279)

[87] (WO2020/132137)

[30] US (62/782,158) 2018-12-19

[30] US (62/807,888) 2019-02-20

[30] US (62/813,603) 2019-03-04

[30] US (16/672,854) 2019-11-04

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[21] **3,120,470**
[13] A1

[51] **Int.Cl. G06K 9/00 (2006.01) G06K 9/32 (2006.01) G06K 9/34 (2006.01) G06K 9/62 (2006.01)**

[25] EN

[54] **REGION PROPOSAL NETWORKS FOR AUTOMATED BOUNDING BOX DETECTION AND TEXT SEGMENTATION**

[54] **RESEAUX DE PROPOSITION DE REGION POUR DETECTION DE RECTANGLE ENGLOBANT ET SEGMENTATION DE TEXTE AUTOMATISEES**

[72] TORRES, TERRENCE J., US
[72] FOROUGH, HOMA, US
[71] INTUIT INC., US
[85] 2021-05-18
[86] 2020-06-17 (PCT/US2020/038023)
[87] (WO2021/021331)
[30] US (16/524,882) 2019-07-29

[21] **3,120,473**
[13] A1

[51] **Int.Cl. G01R 29/08 (2006.01) H04B 17/309 (2015.01) G01R 29/10 (2006.01) H01Q 3/00 (2006.01)**

[25] EN

[54] **TESTING ANTENNA SYSTEMS**

[54] **TEST DE SYSTEMES D'ANTENNE**

[72] SHAFFER, JAMES P., CA
[71] QUANTUM VALLEY IDEAS LABORATORIES, CA
[85] 2021-05-13
[86] 2019-03-07 (PCT/CA2019/050277)
[87] (WO2020/140147)
[30] US (62/786,675) 2018-12-31

[21] **3,120,474**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01)**

[25] EN

[54] **ANTI-IL-36 ANTIBODIES AND METHODS OF USE THEREOF**

[54] **ANTICORPS ANTI-IL-36 ET LEURS PROCEDES D'UTILISATION**

[72] LEE, CHINGWEI VIVIAN, US
[72] FUH-KELLY, GERMAINE, US
[72] SCHARF, LOUISE, US
[72] THAI, TINA, US
[72] PATEL, ASHKA, US
[72] BHARILL, SHASHANK, US
[72] KARRER, ERIK EDWARD, US
[71] 23ANDME, INC., US
[85] 2021-05-18
[86] 2019-12-19 (PCT/US2019/067435)
[87] (WO2020/132220)
[30] US (62/784,316) 2018-12-21

[21] **3,120,475**
[13] A1

[51] **Int.Cl. H04L 29/12 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING MULTIPLE SERIAL CONTROL DEVICES IN AN EMERGENCY VEHICLE**

[54] **SYSTEME ET PROCEDE POUR COMMANDER DE MULTIPLES DISPOSITIFS DE COMMANDE EN SERIE DANS UN VEHICULE D'URGENCE**

[72] LEMIEUX, KENNETH S., US
[72] JACKSON, COLE, US
[72] RUSSELL, ERIC, US
[72] WALCZAK, TOMASZ, US
[71] WHELEN ENGINEERING COMPANY, INC., US
[85] 2021-05-18
[86] 2020-03-11 (PCT/US2020/022085)
[87] (WO2020/185887)
[30] US (62/817,723) 2019-03-13

[21] **3,120,478**
[13] A1

[51] **Int.Cl. G08B 3/10 (2006.01)**

[25] EN

[54] **VOLUME SCALING AND SYNCHRONIZATION OF TONES**

[54] **MISE A L'ECHELLE ET SYNCHRONISATION DE VOLUME DE TONALITES**

[72] CONLON, BRANDON, US
[72] DORNFELD, DAVID, US
[72] GARRETT, CALEB, US
[71] WHELEN ENGINEERING COMPANY, INC., US
[85] 2021-05-18
[86] 2020-03-11 (PCT/US2020/022141)
[87] (WO2020/185927)
[30] US (62/816,958) 2019-03-12

[21] **3,120,479**
[13] A1

[51] **Int.Cl. C08G 63/08 (2006.01) C08G 63/78 (2006.01) C08G 63/82 (2006.01) C08J 3/12 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING A RESORBABLE POLYESTER AS A GRANULATE OR POWDER BY BULK POLYMERIZATION**

[54] **PROCEDE DE PREPARATION D'UN POLYESTER RESORBABLE SOUS FORME DE GRANULES OU DE POUDRE PAR POLYMERISATION EN MASSE**

[72] SEIBEL, MANUEL, DE
[72] SCHATTKA, JAN HENDRIK, DE
[72] WAHL, ISABEL, DE
[72] MAX, ALENA-DAVINA, DE
[72] GHULAM, ELISABETH, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-05-19
[86] 2019-10-17 (PCT/EP2019/078142)
[87] (WO2020/108844)
[30] EP (18208541.5) 2018-11-27

PCT Applications Entering the National Phase

[21] **3,120,480**
[13] A1

[51] **Int.Cl. G16H 30/20 (2018.01) A61B 34/10 (2016.01) G06T 1/40 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ASSESSING MEDICAL IMAGES**

[54] **SYSTEME ET PROCEDE D'EVALUATION D'IMAGES MEDICALES**

[72] BARZILAI, DAN, IL
[72] ABDOLELL, MOHAMED, CA
[72] CHUNG, DESMOND RYAN, CA
[72] DUGGAN, RYAN, CA
[72] GHAZANFARI, AMIN, CA
[72] HU, NING, CA
[72] PAQUET, NICOLE, CA
[71] DENSITAS INCORPORATED, CA
[85] 2021-05-19
[86] 2019-11-25 (PCT/CA2019/051684)
[87] (WO2020/102914)
[30] US (62/771,067) 2018-11-24

[21] **3,120,482**
[13] A1

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

[25] EN

[54] **METHODS AND REAGENTS FOR MULTIPLEX BINDING EXPERIMENTS**

[54] **PROCEDES ET REACTIFS POUR EXPERIENCES DE LIAISON MULTIPLEX**

[72] LECINE, PATRICK, FR
[72] VEDRINE, CHRISTOPHE, FR
[72] LUGARI, ADRIEN, FR
[71] BIOASTER, FR
[85] 2021-05-19
[86] 2019-11-18 (PCT/EP2019/081692)
[87] (WO2020/104397)
[30] EP (18306517.6) 2018-11-19

[21] **3,120,483**
[13] A1

[51] **Int.Cl. H04W 76/40 (2018.01) H04W 74/04 (2009.01) H04W 12/04 (2021.01) H04W 52/02 (2009.01) H04W 4/23 (2018.01)**

[25] EN

[54] **CONTROLLING TRANSMISSION OF GROUP-ADDRESSED DATA**

[54] **COMMANDE DE TRANSMISSION DE DONNEES ADRESSEES A UN GROUPE**

[72] LEPP, JAMES RANDOLPH WINTER, CA
[72] MCCANN, STEPHEN, CA
[72] MONTEMURRO, MICHAEL PETER, CA
[71] BLACKBERRY LIMITED, CA
[85] 2021-05-19
[86] 2019-12-17 (PCT/CA2019/051831)
[87] (WO2020/142831)
[30] US (16/242,798) 2019-01-08

[21] **3,120,485**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**

[25] EN

[54] **CAPSULE FOR FOOD OR BEVERAGE PREPARATION COMPRISING AN OVERSIZED MEMBRANE**

[54] **CAPSULE POUR PREPARATION D'ALIMENTS OU DE BOISSONS COMPRENANT UNE MEMBRANE SURDIMENSIONNEE**

[72] DOGAN, NIHAN, CH
[72] MCPOLAND, KAREN, CH
[72] MARVILLE, FRED, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-05-19
[86] 2019-11-19 (PCT/EP2019/081700)
[87] (WO2020/104402)
[30] EP (18207128.2) 2018-11-20

[21] **3,120,487**
[13] A1

[51] **Int.Cl. E21B 19/06 (2006.01) E21B 19/16 (2006.01) E21B 23/00 (2006.01)**

[25] EN

[54] **AXIAL-LOAD-ACTUATED ROTARY LATCH RELEASE MECHANISMS FOR CASING RUNNING TOOLS**

[54] **MECANISMES DE LIBERATION DE VERROUS ROTATIFS ACTIONNES PAR CHARGE AXIALE POUR OUTILS DE PASSAGE DE TUBAGE**

[72] SLACK, MAURICE WILLIAM, CA
[71] NOETIC TECHNOLOGIES INC., CA
[85] 2021-05-19
[86] 2020-01-19 (PCT/CA2020/000003)
[87] (WO2020/146936)
[30] US (62/794,619) 2019-01-19

[21] **3,120,488**
[13] A1

[51] **Int.Cl. A24C 5/18 (2006.01) A24C 5/39 (2006.01)**

[25] EN

[54] **CIGARETTE MACHINE AND METHOD FOR PRODUCING CIGARETTES**

[54] **CONFECTIONNEUSE DE CIGARETTES ET PROCEDE DE FABRICATION DE CIGARETTES**

[72] KOCH, ROGER, CH
[71] KOCH, ROGER, CH
[85] 2021-05-19
[86] 2019-12-02 (PCT/CH2019/050027)
[87] (WO2020/113348)
[30] CH (01485/18) 2018-12-03

Demandes PCT entrant en phase nationale

[21] **3,120,489**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A23L 33/105 (2016.01) A61K 31/192 (2006.01) A61K 31/353 (2006.01) A61K 31/7048 (2006.01) A61K 36/45 (2006.01) A61K 36/87 (2006.01) A61K 45/06 (2006.01) A61P 25/28 (2006.01)**

[25] FR

[54] **SINGLE-DOSE USE OF A COMPOSITION COMPRISING A PARTICULAR MIXTURE OF GRAPE EXTRACT AND BLUEBERRY EXTRACT**

[54] **UTILISATION EN PRISE UNIQUE D'UNE COMPOSITION COMPRENANT UN MELANGE PARTICULIER D'EXTRAIT DE RAISINS ET D'EXTRAIT DE BLEUETS**

[72] GAUDOUT, DAVID, FR
[72] REY, STEPHANE, FR
[72] LEMAIRE, BENOIT, FR
[72] MAZIER, WILFRID, FR
[72] DUBREUIL, SEVERINE, FR
[71] ACTIV'INSIDE, FR
[85] 2021-05-19
[86] 2019-11-20 (PCT/EP2019/081945)
[87] (WO2020/104533)
[30] FR (1871663) 2018-11-21

[21] **3,120,490**
[13] A1

[51] **Int.Cl. F03B 3/02 (2006.01) F03B 11/04 (2006.01)**

[25] EN

[54] **HYDROTURBINE RUNNER CROWN WITH BALANCING SLOTS**

[54] **COURONNE DE CANAL D'HYDROTURBINE DOTE DE FENTES D'EQUILIBRAGE**

[72] BORNARD, LAURENT, FR
[72] SCOTT, DAVID, FR
[72] BOUTET-BLAIS, GUILLAUME, FR
[71] GE RENEWABLE TECHNOLOGIES, FR
[85] 2021-05-19
[86] 2019-11-20 (PCT/EP2019/081954)
[87] (WO2020/104536)
[30] EP (18306542.4) 2018-11-21

[21] **3,120,492**
[13] A1

[51] **Int.Cl. A23K 10/38 (2016.01) C12P 7/08 (2006.01) C12P 7/10 (2006.01)**

[25] EN

[54] **PRODUCTION OF ETHANOL AND ENHANCED CO-PRODUCTS USING CO-PRODUCTS AS FEEDSTOCK**

[54] **PRODUCTION D'ETHANOL ET DE CO-PRODUITS AMELIORES A L'AIDE DE CO-PRODUITS EN TANT QUE CHARGE D'ALIMENTATION**

[72] BOTELLA-FRANCO, CAROLINA, NL
[72] SADASIVAN VIJAYAKUMARI, SIVAKUMAR, US
[72] BLACKBOURN, ROBERT LAWRENCE, US
[72] WEIDER, PAUL RICHARD, US
[72] CHEN, YE-MON, US
[72] LIANG, YI, US
[72] GAGNE, DANIEL, US
[72] BAUGH, ASHLEY, VILLARREAL, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2021-05-19
[86] 2019-11-26 (PCT/EP2019/082503)
[87] (WO2020/109268)
[30] US (62/772,719) 2018-11-29

[21] **3,120,493**
[13] A1

[51] **Int.Cl. E21B 47/10 (2012.01) E21B 47/135 (2012.01) E21B 41/00 (2006.01) E21B 47/12 (2012.01)**

[25] EN

[54] **DAS DATA PROCESSING TO IDENTIFY FLUID INFLOW LOCATIONS AND FLUID TYPE**

[54] **TRAITEMENT DE DONNEES DAS POUR IDENTIFIER DES EMPLACEMENTS D'AFFLUX DE FLUIDE ET UN TYPE DE FLUIDE**

[72] THIRUVENKATANATHAN, PRADYUMNA, GB
[71] BP EXPLORATION OPERATING COMPANY LIMITED, GB
[85] 2021-05-19
[86] 2019-11-27 (PCT/EP2019/082808)
[87] (WO2020/109426)
[30] EP (PCT/EP2018/082985) 2018-11-29

[21] **3,120,494**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61B 17/04 (2006.01)**

[25] EN

[54] **DEVICE FOR HEART REPAIR**

[54] **DISPOSITIF POUR REPARATION CARDIAQUE**

[72] HIORTH, NIKOLAI, NO
[72] HIORTH, HANS EMIL, NO
[71] CARDIOMECH AS, NO
[85] 2021-05-19
[86] 2019-11-29 (PCT/EP2019/083143)
[87] (WO2020/109582)
[30] GB (1819480.3) 2018-11-29
[30] GB (1819489.4) 2018-11-29
[30] GB (1819484.5) 2018-11-29
[30] GB (1819490.2) 2018-11-29
[30] GB (1820258.0) 2018-12-12
[30] GB (1820990.8) 2018-12-21
[30] GB (1904688.7) 2019-04-03
[30] GB (1907110.9) 2019-05-20
[30] GB (1911817.3) 2019-08-16
[30] GB (1911812.4) 2019-08-16
[30] GB (1913057.4) 2019-09-10
[30] GB (1913360.2) 2019-09-16

[21] **3,120,496**
[13] A1

[51] **Int.Cl. B01J 19/24 (2006.01)**

[25] EN

[54] **AMPLIFICATION METHOD FOR METALLURGICAL PROCESS**

[54] **PROCEDE DE VALORISATION DE PROCESSUS METALLURGIQUE**

[72] ZHANG, TINGAN, CN
[72] DOU, ZHIHE, CN
[72] LIU, YAN, CN
[72] ZHANG, ZIMU, CN
[72] ZHAO, QIUYUE, CN
[72] LV, GUOZHI, CN
[72] HE, JICHENG, CN
[71] NORTHEASTERN UNIVERSITY, CN
[85] 2021-05-19
[86] 2018-12-10 (PCT/CN2018/119969)
[87] (WO2020/113593)
[30] CN (201811485574.7) 2018-12-06

PCT Applications Entering the National Phase

[21] **3,120,499**
[13] A1

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4427 (2006.01) A61K 31/497 (2006.01) A61P 3/10 (2006.01) C07D 405/04 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **GLP-1R AGONISTS AND USES THEREOF**

[54] **AGONISTES DE GLP-1R ET LEURS UTILISATIONS**

[72] ZHONG, WENGE, US

[71] QILU REGOR THERAPEUTICS INC., CN

[85] 2021-05-19

[86] 2019-11-19 (PCT/CN2019/119373)

[87] (WO2020/103815)

[30] CN (PCT/CN2018/117047) 2018-11-22

[21] **3,120,500**
[13] A1

[51] **Int.Cl. H04W 4/40 (2018.01)**

[25] EN

[54] **V2X MESSAGE TRANSMISSION METHOD, DEVICE, AND SYSTEM**

[54] **PROCEDE ET DISPOSITIF DE TRANSMISSION D'UN MESSAGE V2X ET SYSTEME ASSOCIE**

[72] YING, JIANGWEI, CN

[72] LI, MENG, CN

[72] XIAO, XIAO, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2021-05-19

[86] 2019-11-20 (PCT/CN2019/119696)

[87] (WO2020/103863)

[30] CN (201811386032.4) 2018-11-20

[21] **3,120,501**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01)**

[25] EN

[54] **INSTANT MONEY TRANSFER METHODS AND SYSTEM FOR IMPLEMENTING SAME**

[54] **PROCEDES POUR EFFECTUER DES TRANSFERTS DE FONDS INSTANTANES ET SYSTEME DE MISE EN OEUVRE**

[72] SOLOV'EV, EVGENIJ GEORGIEVICH, RU

[72] KOLESNIKOV, DMITRIJ ALEKSANDROVICH, RU

[72] PETUSHKOVA, NATAL'YA OLEGOVNA, RU

[71] AKCIONERNOE OBSHESTVO "NACIONAL'NAYA SISTEMA PLATEZHNYKH KART", RU

[85] 2021-05-17

[86] 2019-12-24 (PCT/RU2019/001005)

[87] (WO2020/139157)

[30] RU (2018145943) 2018-12-24

[21] **3,120,514**
[13] A1

[51] **Int.Cl. C07D 231/06 (2006.01) A61K 31/397 (2006.01) A61K 31/4155 (2006.01) A61P 43/00 (2006.01) C07D 205/04 (2006.01)**

[25] EN

[54] **CYCLIC UREAS**

[54] **UREES CYCLIQUES**

[72] SU, YANING, CN

[72] ZHANG, ZHIYUAN, CN

[72] HAN, JIANGUANG, CN

[72] RUAN, HANYING, CN

[72] LI, YING, CN

[72] WANG, GUOZHENG, CN

[72] LIU, WENDONG, CN

[72] ZHANG, CHONG, CN

[72] LIANG, LEIMING, CN

[71] SIRONAX LTD, KY

[85] 2021-05-14

[86] 2019-11-20 (PCT/CN2019/119795)

[87] (WO2020/103884)

[30] CN (PCT/CN2018/116553) 2018-11-20

[21] **3,120,516**
[13] A1

[51] **Int.Cl. G02B 5/18 (2006.01) G02B 27/09 (2006.01) G02F 1/1337 (2006.01) G02F 1/1343 (2006.01) G02F 1/19 (2019.01)**

[25] EN

[54] **BEAM STEERING DEVICES**

[54] **DISPOSITIF DE DIRECTION DE FAISCEAU**

[72] VAN HEUGTEN, ANTHONY, US

[71] E-VISION SMART OPTICS, INC., US

[85] 2021-05-19

[86] 2019-11-19 (PCT/US2019/062110)

[87] (WO2020/106667)

[30] US (62/769,052) 2018-11-19

[21] **3,120,517**
[13] A1

[51] **Int.Cl. A61K 35/744 (2015.01) A61K 35/747 (2015.01) A61K 31/715 (2006.01)**

[25] EN

[54] **ADHERENT ORAL PHARMABIOTIC DELIVERY STRIP**

[54] **BANDE D'ADMINISTRATION PHARMABIOTIQUE BUCCALE ADHESIVE**

[72] EDWARDS, STEVEN J., US

[71] EDWARDS, STEVEN J., US

[85] 2021-05-19

[86] 2019-11-15 (PCT/US2019/061861)

[87] (WO2020/106591)

[30] US (62/769,502) 2018-11-19

[30] US (16/684,255) 2019-11-14

[21] **3,120,520**
[13] A1

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

[25] EN

[54] **SATELLITE LOAD BALANCING**

[54] **EQUILIBRAGE DE CHARGE DE SATELLITE**

[72] ROY, SATYAJIT, US

[72] CHOQUETTE, GEORGE, US

[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2021-05-19

[86] 2019-11-19 (PCT/US2019/062096)

[87] (WO2020/106659)

[30] US (16/196,265) 2018-11-20

Demandes PCT entrant en phase nationale

[21] **3,120,522**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G16H 20/17 (2018.01) A61B 5/00 (2006.01) A61M 39/00 (2006.01) G06F 21/00 (2013.01)**

[25] EN

[54] **WIRELESS CHARGING, LOCALIZATION, AND DATA COMMUNICATION FOR IMPLANTABLE VASCULAR ACCESS DEVICES**

[54] **CHARGE, LOCALISATION ET COMMUNICATION DE DONNEES SANS FIL POUR DISPOSITIFS D'ACCES VASCULAIRE IMPLANTABLES**

[72] MITCHELL, JAMES D., US
[72] JOHNSON, THEODORE C., US
[72] THORESON, ANDREW, US
[72] COATES, JAYME ORMISTON, US
[71] ONCODISC, INC., US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062350)
[87] (WO2020/106804)
[30] US (62/769,698) 2018-11-20

[21] **3,120,524**
[13] A1

[51] **Int.Cl. G21C 3/07 (2006.01)**

[25] EN

[54] **COATINGS AND SURFACE MODIFICATIONS TO MITIGATE SIC CLADDING DURING OPERATION IN LIGHT WATER REACTORS**

[54] **RETELEMENTS ET MODIFICATIONS DE SURFACE POUR RENFORCER UNE GAINÉ EN SIC PENDANT LE FONCTIONNEMENT DANS DES REACTEURS A EAU LEGERE**

[72] LAHODA, EDWARD J., US
[72] XU, PENG, US
[72] OELRICH, ROBERT L., JR., US
[72] YEOM, Hwasung, US
[72] SRIDHARAN, KUMAR, US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2021-05-19
[86] 2019-11-18 (PCT/US2019/061947)
[87] (WO2020/106606)
[30] US (16/196,005) 2018-11-20

[21] **3,120,526**
[13] A1

[51] **Int.Cl. B60N 2/07 (2006.01) B60N 2/015 (2006.01) B60N 2/02 (2006.01)**

[25] EN

[54] **REMOVABLE SEAT USED WITH A LONG RAIL ASSEMBLY**

[54] **SIEGE AMOVIBLE UTILISE AVEC UN ENSEMBLE RAIL LONG**

[72] ZHAO, KAI, US
[72] NACY, MICHAEL D., US
[72] MARINI, DETJON, US
[72] VETERE, LOUIS, II, US
[72] DIOUM, CHEIKH, US
[71] MAGNA SEATING INC., CA
[85] 2021-05-19
[86] 2019-11-19 (PCT/US2019/062212)
[87] (WO2020/082094)
[30] US (62/769,029) 2018-11-19

[21] **3,120,528**
[13] A1

[51] **Int.Cl. C07D 233/64 (2006.01) A61K 47/68 (2017.01) A61K 47/69 (2017.01) C07C 233/90 (2006.01) C07D 249/16 (2006.01) C07H 17/02 (2006.01) C07K 5/06 (2006.01) C07K 5/08 (2006.01)**

[25] EN

[54] **BIS-OCTAHYDROPHENANTHRENE CARBOXAMIDE DERIVATIVES AND PROTEIN CONJUGATES THEREOF FOR USE AS LXR AGONISTS**

[54] **DERIVES DE BIS-OCTAHYDROPHENANTHRENE CARBOXAMIDE ET LEURS CONJUGUES PROTEIQUES DESTINES A ETRE UTILISES EN TANT QU'AGONISTES DE LXR**

[72] GROMADA, JESPER, US
[72] GUSAROVA, VIKTORIA, US
[72] HAN, AMY, US
[72] HAXHINASTO, SOKOL, US
[72] MURPHY, ANDREW J., US
[72] OLSON, WILLIAM, US
[72] SLEEMAN, MATTHEW, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2021-05-19
[86] 2019-11-19 (PCT/US2019/062302)
[87] (WO2020/106780)
[30] US (62/769,946) 2018-11-20

[21] **3,120,529**
[13] A1

[51] **Int.Cl. B60K 1/04 (2019.01) B60K 1/00 (2006.01)**

[25] EN

[54] **A COMPOSITE BATTERY ENCLOSURE**

[54] **BOITIER DE BATTERIE COMPOSITE**

[72] HOWARD, MICHAEL F., US
[72] VELOSO, MCKEVIN, US
[71] TPI COMPOSITES, INC., US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062411)
[87] (WO2020/106837)
[30] US (62/769,925) 2018-11-20

[21] **3,120,530**
[13] A1

[51] **Int.Cl. A61K 31/015 (2006.01) C07C 217/64 (2006.01)**

[25] EN

[54] **NOVEL COMPOUNDS HAVING ESTROGEN RECEPTOR ALPHA DEGRADATION ACTIVITY AND USES THEREOF**

[54] **NOUVEAUX COMPOSES AYANT UNE ACTIVITE DE DEGRADATION DES RECEPTEUR DES OESTROGENES ALPHA ET LEURS UTILISATIONS**

[72] FAN, JIE, US
[72] LIU, KE, US
[72] ZHANG, HUI, US
[72] HE, WEI, US
[71] ACCUTAR BIOTECHNOLOGY INC., US
[85] 2021-05-19
[86] 2019-11-21 (PCT/US2019/062564)
[87] (WO2020/106933)
[30] US (62/770,476) 2018-11-21

PCT Applications Entering the National Phase

[21] **3,120,531**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/0215 (2006.01) A61B 5/06 (2006.01) A61B 5/145 (2006.01) A61M 39/02 (2006.01)**

[25] EN

[54] **VASCULAR ACCESS DEVICES, SYSTEMS, AND METHODS FOR MONITORING PATIENT HEALTH**

[54] **DISPOSITIFS D'ACCES VASCULAIRE, SYSTEMES ET METHODES DE SURVEILLANCE DE LA SANTE D'UN PATIENT**

[72] MITCHELL, JAMES D., US

[72] JOHNSON, THEODORE C., US

[72] THORESON, ANDREW, US

[71] ONCODISC, INC., US

[85] 2021-05-19

[86] 2019-11-20 (PCT/US2019/062416)

[87] (WO2020/106842)

[30] US (16/197,083) 2018-11-20

[21] **3,120,532**
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/553 (2006.01) A61P 1/16 (2006.01) A61P 31/12 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **CRYSTAL FORM OF HEPATITIS B SURFACE ANTIGEN INHIBITOR**

[54] **FORME CRISTALLINE D'UN INHIBITEUR D'ANTIGENE DE SURFACE DE L'HEPATITE B**

[72] HU, YANBIN, CN

[72] SUN, FEI, CN

[72] SHI, SHENYI, CN

[72] SU, YANXIAO, CN

[72] DING, CHARLES Z., CN

[71] FUJIAN COSUNTER PHARMACEUTICAL CO., LTD., CN

[85] 2021-05-19

[86] 2019-11-22 (PCT/CN2019/120169)

[87] (WO2020/103924)

[30] CN (201811399514.3) 2018-11-22

[21] **3,120,533**
[13] A1

[51] **Int.Cl. H04N 19/11 (2014.01)**

[25] EN

[54] **PULSE CODE MODULATION TECHNIQUE IN VIDEO PROCESSING**

[54] **TECHNIQUE DE MODULATION DE CODE D'IMPULSION DANS UN TRAITEMENT VIDEO**

[72] ZHANG, LI, US

[72] ZHANG, KAI, US

[72] LIU, HONGBIN, CN

[72] XU, JIZHENG, US

[72] WANG, YUE, CN

[71] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN

[71] BYTEDANCE INC., US

[85] 2021-05-19

[86] 2019-11-22 (PCT/CN2019/120266)

[87] (WO2020/103931)

[30] CN (PCT/CN2018/116885) 2018-11-22

[21] **3,120,534**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 48/00 (2006.01) A61P 21/00 (2006.01) C07H 21/00 (2006.01)**

[25] EN

[54] **OLIGOMERIC NUCLEIC ACID MOLECULE AND USE THEREOF**

[54] **MOLECULE D'ACIDE NUCLEIQUE OLIGOMERE ET APPLICATION CORRESPONDANTE**

[72] LI, LONGCHENG, CN

[72] KANG, MOORIM, CN

[71] RACTIGEN THERAPEUTICS, CN

[85] 2021-05-19

[86] 2019-12-27 (PCT/CN2019/129025)

[87] (WO2020/135677)

[30] CN (201811634268.5) 2018-12-29

[21] **3,120,535**
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01) A61B 17/29 (2006.01) A61F 2/24 (2006.01) A61B 17/00 (2006.01)**

[25] EN

[54] **DEVICE FOR HEART REPAIR**

[54] **DISPOSITIF POUR REPARATION CARDIAQUE**

[72] HIORTH, NIKOLAI, NO

[72] HIORTH, HANS EMIL, NO

[72] BLIX, JOHN B., US

[71] CARDIOMECH AS, NO

[85] 2021-05-19

[86] 2019-11-29 (PCT/EP2019/083159)

[87] (WO2020/109594)

[30] GB (1819480.3) 2018-11-29

[30] GB (1819489.4) 2018-11-29

[30] GB (1819484.5) 2018-11-29

[30] GB (1819490.2) 2018-11-29

[30] GB (1820258.0) 2018-12-12

[30] GB (1820990.8) 2018-12-21

[30] GB (1904688.7) 2019-04-03

[30] GB (1907110.9) 2019-05-20

[30] GB (1911817.3) 2019-08-16

[30] GB (1911812.4) 2019-08-16

[30] GB (1913057.4) 2019-09-10

[30] GB (1913360.2) 2019-09-16

[21] **3,120,536**
[13] A1

[51] **Int.Cl. F16L 33/22 (2006.01)**

[25] EN

[54] **SEALING STRUCTURE**

[54] **STRUCTURE D'ETANCHEITE**

[72] DIAO, ZHENBIN, CN

[72] LI, XIMIN, CN

[72] LIN, XIYONG, CN

[72] CHENG, JIAJIA, CN

[72] CHEN, WENFENG, CN

[72] CAO, HUIJIAN, CN

[72] CHEN, ALI, CN

[71] RIFENG ENTERPRISE (FOSHAN) CO., LTD., CN

[71] RIFENG ENTERPRISE GROUP CO., LTD., CN

[85] 2021-05-19

[86] 2020-06-05 (PCT/CN2020/094770)

[87] (WO2021/093316)

[30] CN (201911124319.4) 2019-11-15

Demandes PCT entrant en phase nationale

[21] **3,120,537**
[13] A1

[51] **Int.Cl. F16H 57/08 (2006.01) B64C 27/00 (2006.01) F16H 57/00 (2012.01)**

[25] EN
[54] **HOVER-CAPABLE AIRCRAFT**
[54] **AERONEF CAPABLE DE VOL STATIONNAIRE**

[72] BIANCHI, ANDREA, IT
[72] SARTORI, SERGIO, IT
[71] LEONARDO S.P.A., IT
[85] 2021-05-19
[86] 2019-09-30 (PCT/IB2019/058287)
[87] (WO2020/109879)
[30] EP (18208981.3) 2018-11-28

[21] **3,120,538**
[13] A1

[51] **Int.Cl. G01T 1/00 (2006.01)**

[25] EN
[54] **FILM MADE OF METAL OR A METAL ALLOY**
[54] **FEUILLE CONSTITUEE DE METAL OU D'UN ALLIAGE METALLIQUE**

[72] SCHUBART, HOLGER THORSTEN, DE
[71] NEUTRINO DEUTSCHLAND GMBH, DE
[85] 2021-05-19
[86] 2019-09-17 (PCT/DE2019/000253)
[87] (WO2020/103965)
[30] DE (10 2018 009 125.3) 2018-11-21

[21] **3,120,539**
[13] A1

[51] **Int.Cl. G01N 1/10 (2006.01) B01D 15/00 (2006.01) G01N 33/18 (2006.01)**

[25] EN
[54] **METHOD FOR LIQUID ENVIRONMENT MONITORING AND LIQUID ENVIRONMENT MONITORING SYSTEM**
[54] **PROCEDE DE SURVEILLANCE D'ENVIRONNEMENT LIQUIDE ET SYSTEME DE SURVEILLANCE D'ENVIRONNEMENT LIQUIDE**

[72] JENSEN, PALLE EJLSKOV, DK
[72] VELA, IVAN YELAMOS, DK
[72] ELMOSE, JENS, DK
[71] EJLSKOV A/S, DK
[85] 2021-05-19
[86] 2019-11-19 (PCT/DK2019/050356)
[87] (WO2020/103992)
[30] DK (PA 2018 70758) 2018-11-19
[30] DK (PA 2018 70760) 2018-11-19

[21] **3,120,540**
[13] A1

[51] **Int.Cl. C25B 11/04 (2021.01) C25B 1/46 (2006.01)**

[25] EN
[54] **ELECTRODE FOR ELECTROLYTIC EVOLUTION OF GAS**
[54] **ELECTRODE POUR L'EVOLUTION ELECTROLYTIQUE D'UN GAZ**

[72] GARGIULO, ALICE, IT
[72] HAYASHIDA, TOSHIKAZU, JP
[71] INDUSTRIE DE NORA S.P.A., IT
[85] 2021-05-19
[86] 2019-12-03 (PCT/EP2019/083448)
[87] (WO2020/115028)
[30] IT (102018000010760) 2018-12-03

[21] **3,120,541**
[13] A1

[51] **Int.Cl. A24F 40/90 (2020.01) H02J 7/00 (2006.01)**

[25] EN
[54] **CHARGING CONTROL FOR AN AEROSOL DELIVERY DEVICE**
[54] **COMMANDE DE CHARGE DESTINEE A UN DISPOSITIF DE DISTRIBUTION D'AEROSOL**

[72] NOVAK, III, CHARLES JACOB, US
[72] DAUGHERTY, SEAN A., US
[72] GALLOWAY, MICHAEL RYAN, US
[72] WOOD, JASON L., US
[72] FRISBEE, MARK, US
[72] HENRY, RAYMOND CHARLES, JR., US
[71] RAI STRATEGIC HOLDINGS, INC., US
[85] 2021-05-19
[86] 2019-11-04 (PCT/IB2019/059455)
[87] (WO2020/104877)
[30] US (62/769,296) 2018-11-19
[30] US (16/537,784) 2019-08-12

[21] **3,120,542**
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 7/12 (2006.01) B32B 27/10 (2006.01) B32B 27/12 (2006.01) B32B 27/18 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) B32B 27/36 (2006.01) B32B 29/00 (2006.01) B32B 29/06 (2006.01)**

[25] EN
[54] **GAS BARRIER FILM FOR PACKAGING MATERIAL**
[54] **FILM BARRIERE AUX GAZ ET MATERIAU D'EMBALLAGE**

[72] KNOOS, ISABEL, SE
[71] STORA ENSO OYJ, FI
[85] 2021-05-19
[86] 2019-11-14 (PCT/IB2019/059775)
[87] (WO2020/104900)
[30] SE (1851444-8) 2018-11-22

[21] **3,120,543**
[13] A1

[51] **Int.Cl. B65G 21/14 (2006.01) B65G 47/31 (2006.01)**

[25] EN
[54] **TELESCOPIC CONVEYOR WITH INTEGRATED INDEXING AND MEASURING CONVEYOR MEANS**
[54] **CONVOYEUR TELESCOPIQUE INTEGRANT DES MOYENS CONVOYEURS CADENCES ET DE MESURE**

[72] CHRISTEN, HANSUELI, CH
[71] CHRISTEN, HANSUELI, CH
[85] 2021-05-19
[86] 2019-11-14 (PCT/IB2019/059781)
[87] (WO2020/104902)
[30] DE (10 2018 009 134.2) 2018-11-21

[21] **3,120,544**
[13] A1

[51] **Int.Cl. G09G 5/00 (2006.01) G09G 3/00 (2006.01) G09G 3/34 (2006.01)**

[25] EN
[54] **MULTIVIEW DISPLAY SYSTEM, MULTIVIEW DISPLAY, AND METHOD HAVING A VIEW-TERMINUS INDICATOR**
[54] **SYSTEME D'AFFICHAGE MULTI-VUE, DISPOSITIF D'AFFICHAGE MULTI-VUE ET PROCEDE AYANT UN INDICATEUR DE FIN DE VUES**

[72] FATTAL, DAVID A., US
[72] GEISLER, DANIEL, JR., US
[71] LEIA INC., US
[85] 2021-05-19
[86] 2018-12-21 (PCT/US2018/067177)
[87] (WO2020/131106)

PCT Applications Entering the National Phase

[21] **3,120,545**
[13] A1

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 17/16 (2006.01) A61B 17/32 (2006.01)**

[25] EN

[54] **SURGICAL INSTRUMENT FOR SCRAPING AND COLLECTING BONE PARTICLES**

[54] **INSTRUMENT CHIRURGICAL POUR RACLER ET COLLECTER DES PARTICULES OSSEUSES**

[72] PARMIGIANI, CORRADO SAVERIO, IT

[71] C.G.M. S.P.A., IT

[85] 2021-05-19

[86] 2019-11-26 (PCT/IB2019/060173)

[87] (WO2020/115611)

[30] IT (102018000010757) 2018-12-03

[21] **3,120,546**
[13] A1

[51] **Int.Cl. G02F 1/313 (2006.01) H04B 10/80 (2013.01)**

[25] EN

[54] **OPTICAL MODULE**

[54] **MODULE OPTIQUE**

[72] KUSAYAMA, ATSUSHI, JP

[72] NANAUMI, YASUYUKI, JP

[72] KIDO, KIYOSHI, JP

[72] AKAHORI, YUJI, JP

[71] NTT ELECTRONICS CORPORATION, JP

[85] 2021-05-19

[86] 2019-08-30 (PCT/JP2019/034185)

[87] (WO2020/110402)

[30] JP (2018-221319) 2018-11-27

[21] **3,120,547**
[13] A1

[51] **Int.Cl. D21H 11/18 (2006.01) D21H 17/24 (2006.01) D21H 17/26 (2006.01) D21H 21/02 (2006.01) D21H 21/06 (2006.01) D21H 23/16 (2006.01)**

[25] EN

[54] **A PROCESS FOR PRODUCING PAPER OR BOARD AND A PRODUCT THEREOF**

[54] **PROCEDE DE PRODUCTION DE PAPIER OU DE CARTON ET UN PRODUIT CORRESPONDANT**

[72] SALAS, DIEGO, ES

[72] LEE, JINHO, KR

[72] HEMMES, JAN-LUIKEN, DE

[71] KEMIRA OYJ, FI

[85] 2021-05-19

[86] 2019-05-22 (PCT/FI2019/050396)

[87] (WO2020/128144)

[30] FI (20186091) 2018-12-17

[21] **3,120,548**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 3/00 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **AGENT FOR INHIBITING IRON UPTAKE INTO CELLS**

[54] **INHIBITEUR DE L'ABSORPTION CELLULAIRE DE FER**

[72] ZHANG, LILIN, JP

[72] NOMURA, FUMIKO, JP

[72] KATSUMI, KEIKO, JP

[72] KOTAKA, ROMI, JP

[72] OHIRA, YUTA, JP

[71] PERSEUS PROTEOMICS INC., JP

[85] 2021-05-19

[86] 2019-11-19 (PCT/JP2019/045227)

[87] (WO2020/105621)

[30] JP (2018-217548) 2018-11-20

[30] JP (2019-167013) 2019-09-13

[21] **3,120,549**
[13] A1

[51] **Int.Cl. C12N 1/14 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING FUNGAL MATS AND MATERIALS MADE THEREFROM**

[54] **PROCEDE DE PRODUCTION DE TAPIS FONGIQUES ET MATERIAUX FABRIQUES A PARTIR DE CEUX-CI**

[72] GANDIA, ANTONI, ES

[72] MONTALTI, MAURIZIO, NL

[72] BABBINI, STEFANO, IT

[71] MOGU S.R.L., IT

[85] 2021-05-19

[86] 2019-12-05 (PCT/IB2019/060466)

[87] (WO2020/115690)

[30] IT (102018000010869) 2018-12-06

[21] **3,120,550**
[13] A1

[51] **Int.Cl. A61K 6/00 (2020.01)**

[25] EN

[54] **DENTAL CLEANER AND DENTAL REMOVER FOR TEMPORARY ADHESIVES**

[54] **MATERIAU DE NETTOYAGE DENTAIRE ET MATERIAU D'ELIMINATION DE MATERIAU ADHESIF PROVISoire DENTAIRE**

[72] OKADA, KEISHU, JP

[72] KAWANA, MARIKO, JP

[72] KASHIKI, NOBUSUKE, JP

[72] NOJIRI, YAMATO, JP

[72] TAJIRI, YUKO, JP

[72] MINE, ATSUSHI, JP

[72] YATANI, HIROFUMI, JP

[71] KURARAY NORITAKE DENTAL INC., JP

[85] 2021-05-19

[86] 2019-11-19 (PCT/JP2019/045299)

[87] (WO2020/105642)

[30] JP (2018-217303) 2018-11-20

[30] JP (2018-218485) 2018-11-21

[30] JP (2019-122136) 2019-06-28

[21] **3,120,551**
[13] A1

[51] **Int.Cl. F03B 13/26 (2006.01) F03B 17/06 (2006.01)**

[25] EN

[54] **A FREE STREAM TURBINE AND SYSTEM**

[54] **TURBINE A FLUX LIBRE ET SYSTEME**

[72] LITHGOW, WILLIAM, GB

[71] LITHGOW, WILLIAM, GB

[85] 2021-05-19

[86] 2019-11-20 (PCT/GB2019/053287)

[87] (WO2020/104799)

[30] GB (1818858.1) 2018-11-20

Demandes PCT entrant en phase nationale

[21] **3,120,552**
[13] A1

[51] **Int.Cl. A21D 13/00 (2017.01) A21D 13/41 (2017.01) A21D 13/60 (2017.01) A21D 2/14 (2006.01) A21D 2/18 (2006.01) A21D 8/02 (2006.01)**

[25] EN
[54] **METHOD FOR PRODUCING BAKERY FOOD**

[54] **PROCEDE DE PRODUCTION DE PRODUITS DE BOULANGERIE**

[72] MARUI, AYU, JP
[72] NAGAHATA, YUYA, JP
[72] NAGASAWA, DAISUKE, JP
[71] J-OIL MILLS, INC., JP
[85] 2021-05-19
[86] 2019-11-21 (PCT/JP2019/045684)
[87] (WO2020/110914)

[21] **3,120,554**
[13] A1

[51] **Int.Cl. B23K 9/26 (2006.01) B21J 5/06 (2006.01) B23K 9/32 (2006.01)**

[25] EN
[54] **CONTACT CHIP REGENERATING DEVICE AND CONTACT CHIP REGENERATING METHOD**

[54] **DISPOSITIF DE REGENERATION DE PUCE DE CONTACT ET PROCEDE DE REGENERATION DE PUCE DE CONTACT**

[72] HUYNH, HUU THINH, JP
[71] TIPMAN CO., LTD., JP
[85] 2021-05-19
[86] 2020-03-05 (PCT/JP2020/009285)
[87] (WO2020/179853)
[30] JP (2019-042021) 2019-03-07

[21] **3,120,555**
[13] A1

[51] **Int.Cl. A47J 27/10 (2006.01)**

[25] EN
[54] **BASE UNIT AND SYSTEM FOR LIQUID CIRCULATION AND HEATING AND FOR VACUUMIZING**

[54] **UNITE DE BASE ET SYSTEME DE CIRCULATION ET DE CHAUFFAGE DE LIQUIDE ET DE MISE SOUS VIDE**

[72] VERBAKEL, ALBERT JOHANNES, NL
[71] VERBAKEL INNOVATION HOLDING B.V., NL
[85] 2021-05-19
[86] 2019-11-15 (PCT/NL2019/050749)
[87] (WO2020/106138)
[30] NL (2022033) 2018-11-20

[21] **3,120,557**
[13] A1

[51] **Int.Cl. E21B 33/00 (2006.01) E21B 33/12 (2006.01) E21B 34/00 (2006.01) E21B 34/06 (2006.01) E21B 34/08 (2006.01) E21B 34/10 (2006.01) E21B 34/12 (2006.01) E21B 34/14 (2006.01) E21B 34/16 (2006.01)**

[25] EN
[54] **ELECTRONIC VALVE WITH DEFORMABLE SEAT AND METHOD**

[54] **VALVE ELECTRONIQUE AYANT UN SIEGE DEFORMABLE ET PROCEDE**

[72] ROESSLER, DENNIS, US
[72] SHAFFER, RAYMOND, US
[71] GEODYNAMICS, INC., US
[85] 2021-05-19
[86] 2019-02-27 (PCT/US2019/019708)
[87] (WO2020/112155)
[30] US (62/771,390) 2018-11-26

[21] **3,120,558**
[13] A1

[51] **Int.Cl. C08F 299/00 (2006.01) C08J 3/075 (2006.01) C08J 3/24 (2006.01)**

[25] EN
[54] **MONODISPERSE HYDROGEL PARTICLES**

[54] **PARTICULES D'HYDROGEL MONODISPERSEES**

[72] FUJITA, AKIO, JP
[72] INATOMI, ATSUSHI, JP
[72] TOSHINARI, KENTA, JP
[72] KOBAYASHI, GORO, JP
[71] KURARAY CO., LTD., JP
[85] 2021-05-19
[86] 2019-11-21 (PCT/JP2019/045655)
[87] (WO2020/105708)
[30] JP (2018-218610) 2018-11-21

[21] **3,120,559**
[13] A1

[51] **Int.Cl. C10G 11/00 (2006.01) B01J 8/00 (2006.01) C10G 11/22 (2006.01)**

[25] EN
[54] **ZONED FLUIDIZATION PROCESS FOR CATALYTIC CONVERSION OF HYDROCARBON FEEDSTOCKS TO PETROCHEMICALS**

[54] **PROCEDE DE FLUIDISATION PAR ZONES POUR LA CONVERSION CATALYTIQUE DE CHARGES D'ALIMENTATION HYDROCARBONEES EN PRODUITS PETROCHIMIQUES**

[72] GASCON, JORGE, SA
[72] SAIH, YOUSSEF, SA
[72] VITTENET, JULLIAN, SA
[72] GEVERS, LIEVEN, SA
[72] XU, WEI, SA
[72] MORALES, ISIDORO, SA
[72] ALI, OLA SALAH, SA
[71] KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-05-19
[86] 2019-10-24 (PCT/IB2019/059144)
[87] (WO2020/109885)
[30] US (62/771,789) 2018-11-27

[21] **3,120,560**
[13] A1

[51] **Int.Cl. A01N 25/30 (2006.01) A01N 25/00 (2006.01) A01N 33/24 (2006.01) A01N 53/00 (2006.01)**

[25] EN
[54] **SOLUTIONS FOR ENHANCING THE EFFECTIVENESS OF INSECTICIDES AND FUNGICIDES ON LIVING PLANTS AND RELATED METHODS**

[54] **SOLUTIONS POUR AMELIORER L'EFFICACITE D'INSECTICIDES ET DE FONGICIDES SUR DES PLANTES VIVANTES ET PROCEDES ASSOCIES**

[72] CLAWSON, JR., RONALD W., US
[72] WARD, HANS A., US
[72] CUTLER, KENNETH A., US
[72] SCOTT, CAMERON R., NZ
[71] KOP-COAT, INC., US
[85] 2021-05-19
[86] 2019-06-19 (PCT/US2019/037851)
[87] (WO2020/117315)
[30] US (16/208,976) 2018-12-04

PCT Applications Entering the National Phase

[21] **3,120,563**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 38/50 (2006.01) A61K 45/06 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR THE SIMULTANEOUS EXPANSION OF MULTIPLE IMMUNE CELL TYPES, RELATED COMPOSITIONS AND USES OF SAME IN CANCER IMMUNOTHERAPY**

[54] **PROCEDES D'EXPANSION SIMULTANEE DE MULTIPLES TYPES DE CELLULES IMMUNITAIRES, COMPOSITIONS ASSOCIEES ET UTILISATIONS DE CELLES-CI DANS L'IMMUNOTHERAPIE CONTRE LE CANCER**

[72] LIU, DAOFENG, US
[72] LI, GUANGNAN, US
[72] TRAGER, JAMES B., US
[71] NKARTA, INC., US
[85] 2021-05-19
[86] 2019-11-22 (PCT/US2019/062851)
[87] (WO2020/112563)
[30] US (62/771,482) 2018-11-26

[21] **3,120,564**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) A61K 38/19 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 14/52 (2006.01) C07K 14/54 (2006.01)**

[25] EN

[54] **PLASMID CONSTRUCTS FOR TREATING CANCER AND METHODS OF USE**

[54] **CONSTRUCTIONS PLASMIDIQUES POUR LE TRAITEMENT DU CANCER ET LEURS PROCEDES D'UTILISATION**

[72] TWITTY, CHRISTOPHER, US
[72] MUKHOPADHYAY, ANANDAROOP, US
[72] CANTON, DAVID A., US
[72] HAN, MIA, US
[72] BROWNING, ERICA, US
[71] ONCOSEC MEDICAL INCORPORATED, US
[85] 2021-05-19
[86] 2019-11-27 (PCT/US2019/063590)
[87] (WO2020/112987)
[30] US (62/771,928) 2018-11-27
[30] US (62/826,439) 2019-03-29

[21] **3,120,565**
[13] A1

[51] **Int.Cl. G06T 7/70 (2017.01) G06T 3/00 (2006.01) G06T 7/00 (2017.01) G06T 15/00 (2011.01) G06T 15/20 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUGMENTED REALITY USING WEB BROWSERS**

[54] **SYSTEMES ET PROCEDES POUR LA REALITE AUGMENTEE UTILISANT DES NAVIGATEURS WEB**

[72] GOLBERG, ALEXANDER, US
[72] MAMELI, DAVIDE, DE
[72] THOMMES, MATTHIAS EMANUEL, DE
[72] TKACHUK, ANDRII, DE
[71] GEENEE GMBH, DE
[85] 2021-05-19
[86] 2019-11-22 (PCT/US2019/062859)
[87] (WO2020/107021)
[30] US (62/770,967) 2018-11-23

[21] **3,120,568**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) B60P 1/00 (2006.01)**

[25] EN

[54] **TRAY, BELT, OR CARRIER ON COMPUTER CONTROLLED TRANSPORT VEHICLE**

[54] **PLATEAU, COURROIE OU SUPPORT SUR VEHICULE DE TRANSPORT COMMANDE PAR ORDINATEUR**

[72] FUTCH, MICHAEL C., US
[72] SERSTAD, JAMES M., US
[71] TOMPKINS ROBOTICS. INC., US
[85] 2021-05-19
[86] 2019-09-09 (PCT/US2019/050191)
[87] (WO2020/112201)
[30] US (62/771,621) 2018-11-27
[30] US (62/792,111) 2019-01-14

[21] **3,120,569**
[13] A1

[51] **Int.Cl. A01N 63/00 (2020.01) A23L 33/10 (2016.01) A61K 35/74 (2015.01)**

[25] EN

[54] **HIGH-COMPLEXITY SYNTHETIC GUT BACTERIAL COMMUNITIES**

[54] **COMMUNAUTES BACTERIENNES INTESTINALES SYNTHETIQUES HAUTE COMPLEXITE**

[72] FISCHBACH, MICHAEL A., US
[72] BRUMBAUGH, ARIEL R., US
[72] CHENG, ALICE G., US
[72] DODD, DYLAN, US
[72] SONNENBURG, JUSTIN L., US
[72] HUANG, KERWYN C., US
[72] ARANDA-DIAZ, ANDRES JESUS, US
[72] HIGGINBOTTOM, STEVE, US
[72] WANG, MIN, US
[72] YU, FEIQIAO BRIAN, US
[71] CHAN ZUCKERBERG BIOHUB, INC., US
[71] BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2021-05-19
[86] 2019-11-21 (PCT/US2019/062689)
[87] (WO2020/106999)
[30] US (62/770,706) 2018-11-21

[21] **3,120,570**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 35/28 (2015.01) A61K 38/17 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01)**

[25] EN

[54] **GENETICALLY MODIFIED HSPCS RESISTANT TO ABLATION REGIME**

[54] **CSPH GENETIQUEMENT MODIFIEES RESISTANTES AU TRAITEMENT ABLATIF**

[72] GIBBS, CRAIG, US
[72] VOLKMER, JENS-PETER, US
[72] WEISSMAN, IRVING L., US
[71] FORTY SEVEN, INC., US
[85] 2021-05-19
[86] 2019-11-26 (PCT/US2019/063402)
[87] (WO2020/112870)
[30] US (62/772,545) 2018-11-28

Demandes PCT entrant en phase nationale

[21] **3,120,571**
[13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) A01H 1/00 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TRANSFERRING BIOMOLECULES TO WOUNDED CELLS**

[54] **COMPOSITIONS ET PROCEDES DE TRANSFERT DE BIOMOLECULES A DES CELLULES BLESSEES**

[72] GILBERTSON, LARRY A., US
[72] KOURANOV, ANDREI Y., US
[72] SIDOROV, VLADIMIR A., US
[71] MONSANTO TECHNOLOGY LLC, US

[85] 2021-05-19
[86] 2019-10-01 (PCT/US2019/053956)
[87] (WO2020/072418)
[30] US (62/740,144) 2018-10-02

[21] **3,120,573**
[13] A1

[51] **Int.Cl. G01S 15/88 (2006.01) G01S 15/06 (2006.01) H04R 3/00 (2006.01) H04R 5/04 (2006.01) H04R 27/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS OF USER LOCALIZATION**

[54] **SYSTEMES ET PROCEDES DE LOCALISATION D'UTILISATEUR**

[72] FRANK, ERIC, US
[71] SONOS, INC., US

[85] 2021-05-19
[86] 2019-10-01 (PCT/US2019/054060)
[87] (WO2020/072488)
[30] US (16/149,992) 2018-10-02

[21] **3,120,576**
[13] A1

[51] **Int.Cl. A61F 2/00 (2006.01) A61K 35/33 (2015.01) A61K 35/407 (2015.01) A61K 35/44 (2015.01) A61K 45/06 (2006.01) A61L 27/00 (2006.01) A61P 37/06 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR IMMUNE TOLERANCE**

[54] **COMPOSITIONS ET PROCEDES POUR INDUIRE UNE TOLERANCE IMMUNITAIRE**

[72] BHATIA, SANGEETA N., US
[72] CHHABRA, ARNAV, US
[72] MAUS, MARCELA V., US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[71] THE GENERAL HOSPITAL CORPORATION, US

[85] 2021-05-19
[86] 2019-11-26 (PCT/US2019/063450)
[87] (WO2020/112904)
[30] US (62/771,457) 2018-11-26
[30] US (62/873,017) 2019-07-11

[21] **3,120,577**
[13] A1

[51] **Int.Cl. A61K 31/4155 (2006.01) A61K 31/407 (2006.01) C07D 247/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING DISEASE WITH MAGL INHIBITORS**

[54] **METHODES DE TRAITEMENT D'UNE MALADIE A L'AIDE D'INHIBITEURS DE MAGL**

[72] BEALS, CHANNING RODNEY, US
[72] JONES, DALLAS, US
[72] CLAPPER, JASON ROBERT, US
[72] O'NEILL, GARY PAUL, US
[72] FRASER, IAIN PETER, US
[72] BLANKMAN, JACQUELINE LORAYNE, US

[72] WIENER, JOHN J.M., US
[72] GRICE, CHERYL A., US
[71] H. LUNDBECK A/S., DK

[85] 2021-05-19
[86] 2019-11-26 (PCT/US2019/063451)
[87] (WO2020/112905)
[30] US (62/772,554) 2018-11-28

[21] **3,120,578**
[13] A1

[51] **Int.Cl. A61K 36/68 (2006.01) A61K 36/02 (2006.01) A61Q 19/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR THE TREATMENT OF CONDITIONS**

[54] **COMPOSITIONS POUR LE TRAITEMENT D'AFFECTIONS**

[72] PROEHL, GERALD THOMAS, US
[72] NARDO, CHRISTOPHER JOSEPH, US

[71] DERMATA THERAPEUTICS, LLC, US

[85] 2021-05-19
[86] 2019-12-02 (PCT/US2019/064050)
[87] (WO2020/117698)
[30] US (62/774,738) 2018-12-03

[21] **3,120,579**
[13] A1

[51] **Int.Cl. G06N 10/00 (2019.01) G06N 99/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHODS FOR QUANTUM POST-SELECTION USING LOGICAL PARITY ENCODING AND DECODING**

[54] **SYSTEME ET PROCEDES DE POST-SELECTION QUANTIQUE UTILISANT UN CODAGE ET UN DECODAGE DE PARITE LOGIQUE**

[72] LUCARELLI, DENNIS, US
[71] LUCARELLI, DENNIS, US

[85] 2021-05-19
[86] 2019-10-11 (PCT/US2019/055991)
[87] (WO2020/077303)
[30] US (62/744,902) 2018-10-12
[30] US (62/866,248) 2019-06-25

PCT Applications Entering the National Phase

[21] **3,120,580**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/113 (2010.01)**

[25] EN

[54] **RNAI AGENTS FOR INHIBITING EXPRESSION OF HIF-2 ALPHA (EPAS1), COMPOSITIONS THEREOF, AND METHODS OF USE**

[54] **AGENTS D'ARNI POUR INHIBER L'EXPRESSION DE HIF-2 ALPHA (EPAS1), LEURS COMPOSITIONS ET METHODES D'UTILISATION**

[72] LI, ZHEN, US

[72] SHU, DONGXU, US

[72] NICHOLAS, ANTHONY, US

[72] ZHU, RUI, US

[72] CARLSON, JEFFREY, US

[72] WONG, SO, US

[72] LI, XIAOKAI, US

[72] ALTENHOFER, ERICH, US

[72] FOWLER-WATTERS, MATTHEW, US

[72] CHEN, BO, US

[71] ARROWHEAD PHARMACEUTICALS, INC., US

[85] 2021-05-19

[86] 2020-01-08 (PCT/US2020/012775)

[87] (WO2020/146521)

[30] US (62/790,360) 2019-01-09

[30] US (62/827,564) 2019-04-01

[30] US (62/839,381) 2019-04-26

[21] **3,120,581**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06F 9/30 (2018.01) H04L 9/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR APPROXIMATING BRANCHING OPERATIONS FOR USE WITH DATA ENCRYPTED BY FULLY HOMOMORPHIC ENCRYPTION (FHE)**

[54] **SYSTEME ET PROCEDE D'APPROXIMATION D'OPERATIONS DE BRANCHEMENT DESTINEES A ETRE UTILISEES AVEC DES DONNEES CHIFFREES PAR CHIFFREMENT ENTIEREMENT HOMOMORPHIQUE (FHE)**

[72] VALD, MARGARITA, US

[72] SHEFFER, YARON, US

[72] RESHEFF, YEHEZKEL SHRAGA, US

[72] BARENHOLZ, TZVIKA, US

[71] INTUIT INC., US

[85] 2021-05-19

[86] 2020-07-01 (PCT/US2020/040397)

[87] (WO2021/050158)

[30] US (16/568,988) 2019-09-12

[21] **3,120,582**
[13] A1

[51] **Int.Cl. G06F 21/33 (2013.01) H04W 12/08 (2021.01) G06F 21/41 (2013.01) H04L 29/06 (2006.01)**

[25] EN

[54] **DUAL FACTOR AUTHENTICATION WITH ACTIVE DIRECTORY AND ONE TIME PASSWORD TOKEN COMBINATION**

[54] **AUTHENTIFICATION A DOUBLE FACTEUR AVEC REPERTOIRE ACTIF ET COMBINAISON DE JETONS DE MOT DE PASSE A USAGE UNIQUE**

[72] JAIN, AYUSH, US

[72] FEIJOO, RICARDO, US

[71] CITRIX SYSTEMS, INC., US

[85] 2021-05-19

[86] 2019-10-24 (PCT/US2019/057863)

[87] (WO2020/106407)

[30] US (16/198,249) 2018-11-21

[21] **3,120,585**
[13] A1

[51] **Int.Cl. G01V 8/20 (2006.01) A63G 1/00 (2006.01) A63G 31/00 (2006.01)**

[25] EN

[54] **ALTERNATING CROSSED ALIGNMENT OBJECT DETECTION**

[54] **DETECTION D'OBJET A ALIGNEMENT CROISE ALTERNE**

[72] REEVES, DENNIS, US

[72] GREEN, TRACY, US

[72] GUARDERAS, CESAR, US

[72] HIRAPARA, COLE, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2021-05-19

[86] 2019-11-18 (PCT/US2019/061985)

[87] (WO2020/112403)

[30] US (62/774,123) 2018-11-30

[30] US (16/601,372) 2019-10-14

[21] **3,120,586**
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61B 90/00 (2016.01) A61B 8/00 (2006.01) A61B 17/225 (2006.01) A61N 7/00 (2006.01)**

[25] EN

[54] **HISTOTRIPTY SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES D'HISTOTRYPSIE**

[72] CANNATA, JONATHAN M., US

[72] MILLER, RYAN, US

[72] DURYEY, ALEXANDER P., US

[72] TEOFILOVIC, DEJAN, US

[72] MLADENOVIC, ZELJKO, US

[72] RAKIC, ALEKSANDRA, US

[72] STOPEK, JOSHUA, US

[71] HISTOSONICS, INC., US

[85] 2021-05-19

[86] 2019-11-27 (PCT/US2019/063728)

[87] (WO2020/113083)

[30] US (62/772,473) 2018-11-28

Demandes PCT entrant en phase nationale

[21] **3,120,588**
[13] A1

[51] **Int.Cl. A63G 27/00 (2006.01) A63G 21/22 (2006.01) A63G 31/02 (2006.01) A63G 31/04 (2006.01) A63G 31/10 (2006.01) A63G 31/16 (2006.01)**

[25] EN

[54] **MULTI-DEGREE OF FREEDOM ELEVATOR RIDE SYSTEM**

[54] **SYSTEME DE MANEGE A DEGRES DE LIBERTE MULTIPLES**

[72] BRISTER, MICHAEL KEITH, US

[72] LEVY, LISA MARIE, US

[72] TRESAUGUE, MICHAEL JOSEPH, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2021-05-19

[86] 2019-11-18 (PCT/US2019/061996)

[87] (WO2020/112407)

[30] US (62/773,005) 2018-11-29

[30] US (16/248,957) 2019-01-16

[21] **3,120,589**
[13] A1

[51] **Int.Cl. H04B 10/114 (2013.01) H04B 10/116 (2013.01) B60Q 1/00 (2006.01)**

[25] EN

[54] **VEHICLE DATA TRANSFER SYSTEM**

[54] **SYSTEME DE TRANSFERT DE DONNEES DE VEHICULE**

[72] GREEN, TRACY, US

[72] FITZPATRICK, SEAN, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2021-05-19

[86] 2019-12-03 (PCT/US2019/064247)

[87] (WO2020/117812)

[30] US (62/776,013) 2018-12-06

[30] US (16/597,426) 2019-10-09

[21] **3,120,590**
[13] A1

[51] **Int.Cl. B62D 5/04 (2006.01) B62D 7/04 (2006.01) B62D 9/00 (2006.01) B62D 11/00 (2006.01)**

[25] EN

[54] **DIFFERENTIAL TRACTION DRIVE WITH STEERING AXIS COORDINATION SYSTEM AND METHOD**

[54] **ENTRAINEMENT DE TRACTION DIFFERENTIELLE AVEC SYSTEME DE COORDINATION D'AXE DE DIRECTION ET PROCEDE**

[72] CHANG, HER-JYE, US

[72] SMITH, AARON, US

[72] MAGGARD, JAY E., US

[71] MTD PRODUCTS INC, US

[85] 2021-05-19

[86] 2019-12-02 (PCT/US2019/063931)

[87] (WO2020/117640)

[30] US (62/774,279) 2018-12-02

[21] **3,120,591**
[13] A1

[51] **Int.Cl. E04B 2/18 (2006.01) E04B 2/46 (2006.01)**

[25] EN

[54] **WALL CONSTRUCTION SYSTEM AND SHIMS FOR USE THEREWITH**

[54] **SYSTEME DE CONSTRUCTION DE MUR ET CALES A UTILISER AVEC CELUI-CI**

[72] WEBER, MARK R., US

[71] MAX-BLOCK DEVELOPMENT L.L.C., US

[85] 2021-05-19

[86] 2019-11-19 (PCT/US2019/062236)

[87] (WO2020/106734)

[30] US (16/197,120) 2018-11-20

[30] US (16/253,127) 2019-01-21

[21] **3,120,592**
[13] A1

[51] **Int.Cl. A43B 13/18 (2006.01) A43B 13/12 (2006.01)**

[25] EN

[54] **SOLE FOR A RUNNING SHOE WITH SOFT-ELASTIC MIDSOLE**

[54] **SEMELLE D'USURE DOTEE D'UNE SEMELLE INTERMEDIAIRE SOUPLE**

[72] HEITZ, ILMARIN, CH

[72] BERNHARD, OLIVIER, CH

[71] ON CLOUDS GMBH, CH

[85] 2021-05-20

[86] 2019-10-25 (PCT/EP2019/079299)

[87] (WO2020/108896)

[30] CH (01463/18) 2018-11-27

[21] **3,120,594**
[13] A1

[51] **Int.Cl. H04N 21/81 (2011.01) H04N 21/431 (2011.01) H04N 21/478 (2011.01) H04N 5/445 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CUSTOMIZING AND COMPOSITING A VIDEO FEED AT A CLIENT DEVICE**

[54] **SYSTEMES ET PROCEDES DE PERSONNALISATION ET DE COMPOSITION D'UN FLUX VIDEO AU NIVEAU D'UN DISPOSITIF CLIENT**

[72] SCHWARTZ, ERIK, US

[72] NAQUIN, MICHAEL, US

[72] SHCHERBIK, GRYGORII, US

[72] HANES, KRISTOPHER, US

[72] EBERSOL, CHARLES D., US

[71] TEMPUS EX MACHINA, INC., US

[85] 2021-05-19

[86] 2020-03-13 (PCT/US2020/022767)

[87] (WO2020/160563)

[30] US (62/819,428) 2019-03-15

[30] US (16/747,440) 2020-01-20

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[21] **3,120,595**
[13] A1

[51] **Int.Cl. A63G 25/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **RIDE CONTROL SYSTEMS AND METHODS FOR AMUSEMENT PARK RIDES**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE MANEGES POUR MANEGES DE PARCS D'ATTRACTIONS**
[72] KRAUTHAMER, AKIVA MEIR, US
[72] GARNIER, TIMOTHY FITZGERALD, US
[72] BATRA, SIMRAN VEENA, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2021-05-19
[86] 2019-12-02 (PCT/US2019/063978)
[87] (WO2020/117660)
[30] US (62/775,238) 2018-12-04
[30] US (16/230,538) 2018-12-21

[21] **3,120,597**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01)**
[25] EN
[54] **INDIAGNOSTICS FRAMEWORK FOR LARGE SCALE HIERARCHICAL TIME-SERIES FORECASTING MODELS**
[54] **INFRASTRUCTURE EN DIAGNOSTIC POUR MODELES DE PREVISION DE SERIES CHRONOLOGIQUES HIERARCHIQUES A GRANDE ECHELLE**
[72] DASGUPTA, SAMBARTA, US
[72] DILLARD, COLIN R., US
[72] ROWAN, SEAN, US
[72] SHASHIKANT RAO, SHASHANK, US
[71] INTUIT INC., US
[85] 2021-05-19
[86] 2020-05-15 (PCT/US2020/033131)
[87] (WO2021/021271)
[30] US (16/526,903) 2019-07-30

[21] **3,120,600**
[13] A1

[51] **Int.Cl. A47J 42/40 (2006.01)**
[25] EN
[54] **KITCHEN APPLIANCE FOR PROCESSING FOOD**
[54] **ROBOT MENAGER POUR TRAITER DES ALIMENTS**
[72] BODUM, JORGEN, CH
[71] PI-DESIGN AG, CH
[85] 2021-05-20
[86] 2019-11-07 (PCT/EP2019/080541)
[87] (WO2020/120038)
[30] DE (10 2018 131 927.4) 2018-12-12

[21] **3,120,601**
[13] A1

[51] **Int.Cl. G06F 40/20 (2020.01) G06N 20/00 (2019.01) G06K 9/62 (2006.01)**
[25] EN
[54] **METAMODELING FOR CONFIDENCE PREDICTION IN MACHINE LEARNING BASED DOCUMENT EXTRACTION**
[54] **METAMODELISATION POUR PREDICTION DE CONFIANCE DANS UNE EXTRACTION DE DOCUMENTS BASEE SUR UN APPRENTISSAGE AUTOMATIQUE**
[72] TORRES, TERRENCE J., US
[72] RAVICHANDRAN, VENKATESH COIMBATORE, US
[72] LOWE, KAREN KRAEMER, US
[71] INTUIT INC., US
[85] 2021-05-19
[86] 2020-08-31 (PCT/US2020/048758)
[87] (WO2021/050313)
[30] US (62/898,382) 2019-09-10
[30] US (17/006,648) 2020-08-28

[21] **3,120,602**
[13] A1

[51] **Int.Cl. B60R 22/48 (2006.01) A63G 7/00 (2006.01) A63G 21/00 (2006.01) B60R 21/015 (2006.01)**
[25] EN
[54] **RIDE VEHICLE RESTRAINT SYSTEM**
[54] **SYSTEME DE RETENUE DE VEHICULE DE MANEGE**
[72] BRUNO, DANTE LAMAR, US
[72] KANIA, CAMERON JOHN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2021-05-19
[86] 2019-12-03 (PCT/US2019/064250)
[87] (WO2020/117815)
[30] US (62/776,830) 2018-12-07
[30] US (16/428,460) 2019-05-31

[21] **3,120,603**
[13] A1

[51] **Int.Cl. B63B 1/24 (2020.01) B63B 32/10 (2020.01) B63B 32/60 (2020.01) B63H 21/17 (2006.01) H02K 5/10 (2006.01)**
[25] EN
[54] **POWERED HYDROFOIL SYSTEM**
[54] **SYSTEME D'HYDROPTERE MOTORISE**
[72] TREWERN, DAVID, AU
[71] FLITEBOARD PTY LTD, AU
[85] 2021-05-20
[86] 2018-11-28 (PCT/AU2018/051265)
[87] (WO2019/104378)
[30] AU (2017268537) 2017-11-28
[30] AU (2018222940) 2018-08-29

[21] **3,120,604**
[13] A1

[51] **Int.Cl. A01B 1/00 (2006.01)**
[25] EN
[54] **AN AGRICULTURAL WORK VEHICLE**
[54] **VEHICULE DE TRAVAIL AGRICOLE**
[72] GREEN, OLE, DK
[72] JUUL, JACOB PILEGAARD, DK
[72] ZNOVA, LIUBAVA, DK
[72] JÆGER, CLAUS DUHRING, DK
[71] AGRO INTELLIGENCE APS, DK
[85] 2021-05-19
[86] 2019-11-15 (PCT/DK2019/050353)
[87] (WO2020/108712)
[30] DK (PA 2018 00917) 2018-11-27

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[21] **3,120,607**
[13] A1

[51] **Int.Cl. F41H 5/22 (2006.01) F41H 7/04 (2006.01) F41H 5/20 (2006.01)**

[25] EN

[54] **TURRET WITH RETRACTABLE PROTECTIVE ROOF**

[54] **TOURELLE AVEC TOIT DE PROTECTION ESCAMOTABLE**

[72] BOLEN, PHILIPPE, BE
[72] LEWANDOWSKI, PAUL, BE
[72] MATTHYS, SEBASTIEN, BE
[71] CMI DEFENCE S.A., BE
[85] 2021-05-20
[86] 2019-11-12 (PCT/EP2019/080938)
[87] (WO2020/108976)
[30] EP (18208946.6) 2018-11-28

[21] **3,120,608**
[13] A1

[51] **Int.Cl. C12N 1/04 (2006.01) A01N 63/20 (2020.01) A01N 25/22 (2006.01) A01P 21/00 (2006.01) C05F 11/08 (2006.01) C05G 3/00 (2020.01) C12N 1/16 (2006.01) C12N 1/20 (2006.01) C12N 1/21 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **POLYMER COMPOSITIONS WITH IMPROVED STABILITY FOR NITROGEN FIXING MICROBIAL PRODUCTS**

[54] **COMPOSITIONS POLYMERES A STABILITE AMELIOREE POUR PRODUITS MICROBIENS FIXANT L'AZOTE**

[72] REZAEI, FARZANEH, US
[72] KIBBEE, JOHN, US
[71] PIVOT BIO, INC., US
[85] 2021-05-19
[86] 2019-12-05 (PCT/US2019/064782)
[87] (WO2020/118111)
[30] US (62/776,782) 2018-12-07

[21] **3,120,613**
[13] A1

[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/472 (2011.01) H04N 21/81 (2011.01)**

[25] EN

[54] **CONTENT DELIVERY SYSTEM FOR TELEVISION BROADCAST SYSTEMS**

[54] **SYSTEME DE DISTRIBUTION DE CONTENUS POUR SYSTEMES DE TELEDIFFUSION**

[72] GATTS, DEREK, US
[72] LEACH, DANIEL, US
[72] WOO, CHRISTINE, US
[72] YEATTS, EVAN, US
[71] BLOOMBERG FINANCE L.P., US
[85] 2021-05-19
[86] 2019-12-09 (PCT/US2019/065120)
[87] (WO2020/123324)
[30] US (16/217,544) 2018-12-12

[21] **3,120,614**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/407 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07D 471/18 (2006.01) C07D 487/04 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **INHIBITORS OF GLII AS THERAPEUTIC AGENTS**

[54] **INHIBITEURS DE GLII UTILISES EN TANT QU'AGENTS THERAPEUTIQUES**

[72] GREENLEE, WILLIAM J., US
[72] VAN DRIE, JOHN, US
[72] HUANG, XINYAN, US
[72] SALZER, JAMES, US
[72] SHOHDY, NADIM, US
[71] NEW YORK UNIVERSITY, US
[85] 2021-05-19
[86] 2019-11-19 (PCT/US2019/062263)
[87] (WO2020/106751)
[30] US (62/769,510) 2018-11-19

[21] **3,120,615**
[13] A1

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

[25] EN

[54] **CHIMERIC RECEPTOR BINDING PROTEINS FOR USE IN BACTERIAL DELIVERY VEHICLES**

[54] **PROTEINES CHIMERES DE LIAISON AU RECEPTEUR DESTINEES A ETRE UTILISEES DANS DES VECTEURS POUR DELIVRER DES BACTERIES**

[72] FERNANDEZ-RODRIGUEZ, JESUS, FR
[71] ELIGO BIOSCIENCE, FR
[85] 2021-05-20
[86] 2019-11-26 (PCT/EP2019/082640)
[87] (WO2020/109339)
[30] US (62/771,761) 2018-11-27
[30] US (62/802,777) 2019-02-08

[21] **3,120,616**
[13] A1

[51] **Int.Cl. B63B 1/24 (2020.01)**

[25] EN

[54] **MODULE FOR CONNECTING A MAST TO A BOARD**

[54] **MODULE DE RACCORDEMENT D'UN MAT A UNE PLANCHE**

[72] TREWERN, DAVID, AU
[71] FLITEBOARD PTY LTD, AU
[85] 2021-05-20
[86] 2018-11-28 (PCT/AU2018/051266)
[87] (WO2019/104379)
[30] AU (2017268537) 2017-11-28

[21] **3,120,617**
[13] A1

[51] **Int.Cl. F16D 65/08 (2006.01) F16D 51/22 (2006.01) F16D 65/22 (2006.01)**

[25] EN

[54] **BRAKE SHOE GUIDE IMPROVEMENTS**

[54] **AMELIORATIONS APPORTEES A UN GUIDE DE MACHOIRE DE FREIN**

[72] PITT, KEN, AU
[71] PITT, KEN, AU
[85] 2021-05-20
[86] 2019-11-21 (PCT/AU2019/000146)
[87] (WO2020/102844)
[30] AU (2018904439) 2018-11-21
[30] AU (2018904637) 2018-12-06

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[21] **3,120,618**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM OF MANUFACTURING AN INSULATED MEMBER**
[54] **PROCEDE ET SYSTEME DE FABRICATION D'UN ELEMENT ISOLE**
[72] CWIK, TOMASZ, US
[72] DELGAS, RUDI, DE
[72] METZ, ERIK, DE
[71] BASF SE, DE
[85] 2021-05-20
[86] 2019-11-21 (PCT/EP2019/082035)
[87] (WO2020/104572)
[30] EP (18207648.9) 2018-11-21

[21] **3,120,619**
[13] A1

[51] **Int.Cl. A61M 31/00 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR TREATING A DISEASE WITH BIOTHERAPEUTICS**
[54] **METHODES ET DISPOSITIFS POUR TRAITER UNE MALADIE A L'AIDE D'AGENTS BIOTHERAPEUTIQUES**
[72] SHIMIZU, JEFFREY A., US
[72] JONES, MITCHELL LAWRENCE, US
[72] WAHL, CHRISTOPHER LOREN, US
[72] MUDGE, EDWARD, GB
[72] SALT, NICHOLAS MARK, GB
[72] STEVENS, NIA ELERI, GB
[72] ABERCROMBIE, STUART ROBERT, GB
[72] BUNCE, CHRISTOPHER IAN, GB
[72] QUINTANA, NELSON, US
[72] DRLIK, MARK SASHA, CA
[72] MULLER, NATHAN JOHN, CA
[72] NGUYEN, TUYEN, CA
[72] NIKNIA, IMAN, CA
[71] PROGENITY, INC., US
[85] 2021-05-19
[86] 2019-11-19 (PCT/US2019/062266)
[87] (WO2020/106754)
[30] US (62/769,496) 2018-11-19
[30] US (62/818,731) 2019-03-14
[30] US (62/819,513) 2019-03-15
[30] US (62/932,459) 2019-11-07

[21] **3,120,620**
[13] A1

[51] **Int.Cl. B65D 33/25 (2006.01)**
[25] EN
[54] **HIDDEN FLANGE CHILD RESISTANT CLOSURE FOR RECLOSABLE POUCH AND METHODS**
[54] **FERMETURE A L'EPREUVE DES ENFANTS A BRIDE CACHEE POUR POCHE REFERMABLE ET PROCEDES**
[72] HANSEN, WILLIAM BRADFORD, US
[72] AUSTRENG, ANDREW R., US
[71] REYNOLDS PRESTO PRODUCTS INC., US
[85] 2021-05-19
[86] 2019-12-09 (PCT/US2019/065240)
[87] (WO2020/131459)
[30] US (16/226,245) 2018-12-19
[30] US (16/550,872) 2019-08-26

[21] **3,120,621**
[13] A1

[51] **Int.Cl. G08B 21/02 (2006.01) G06K 9/00 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING A DEFINED OBJECT AND ALERTING A USER**
[54] **SYSTEME ET PROCEDE PERMETTANT D'IDENTIFIER UN OBJET DEFINI ET D'ALERTER UN UTILISATEUR**
[72] KIRCHNER, NATHAN GRAHAM EDWARD, AU
[71] PRESIEN PTY LTD, AU
[85] 2021-05-20
[86] 2019-11-21 (PCT/AU2019/051281)
[87] (WO2020/102855)
[30] AU (2018904451) 2018-11-22

[21] **3,120,624**
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 8/64 (2006.01) A61K 9/00 (2006.01) A61K 38/00 (2006.01) A61P 17/02 (2006.01) A61P 17/16 (2006.01) A61P 17/18 (2006.01) A61Q 17/04 (2006.01)**
[25] EN
[54] **POLYPEPTIDES AND METHODS FOR IMPROVING SKIN CONDITIONS**
[54] **POLYPEPTIDES ET METHODES POUR SOULAGER LES AFFECTIONS CUTANEEES**
[72] AGREZ, MICHAEL, AU
[71] INTERK PEPTIDE THERAPEUTICS LIMITED, AU
[85] 2021-05-20
[86] 2019-11-29 (PCT/AU2019/051313)
[87] (WO2020/107079)
[30] AU (2018904570) 2018-11-30

[21] **3,120,625**
[13] A1

[51] **Int.Cl. B01J 23/28 (2006.01) B01J 21/04 (2006.01) B01J 23/00 (2006.01) B01J 27/057 (2006.01) B01J 35/10 (2006.01) B01J 37/00 (2006.01) B01J 37/03 (2006.01) B01J 37/04 (2006.01) B01J 37/08 (2006.01) C07C 5/48 (2006.01) C07C 51/215 (2006.01) C07C 51/25 (2006.01)**
[25] EN
[54] **CATALYST FOR ALKANE OXIDATIVE DEHYDROGENATION AND/OR ALKENE OXIDATION**
[54] **CATALYSEUR POUR DESHYDROGENATION OXYDATIVE D'ALCANE ET/OU OXYDATION D'ALCENE**
[72] SCHRICKER, RALF, DE
[72] KLEMT, ANDREAS, DE
[72] STOBBE, ERWIN RODERICK, NL
[72] COLIJN, HENDRIK ALBERTUS, NL
[72] VAN ROSSUM, GUUS, NL
[72] BOS, ALOUISIUS NICOLAAS RENE, NL
[72] SCHOONEBEEK, RONALD JAN, NL
[72] SCHUT, PETER ALEXANDER, NL
[72] CHRISTIANSEN, MATTHEW ADAM, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2021-05-20
[86] 2019-12-16 (PCT/EP2019/085290)
[87] (WO2020/127003)
[30] EP (18213913.9) 2018-12-19

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[21] **3,120,626**
[13] A1

[51] **Int.Cl. B60L 53/80 (2019.01) H01M 10/60 (2014.01) H01M 10/613 (2014.01) H01M 10/625 (2014.01) H01M 10/6557 (2014.01) H01M 10/6567 (2014.01) B60L 53/18 (2019.01) B60L 58/26 (2019.01) H01M 10/44 (2006.01)**

[25] EN
[54] **BATTERY WITH LIQUID TEMPERATURE CONTROLLING SYSTEM**

[54] **BATTERIE A SYSTEME DE REGULATION DE TEMPERATURE DE LIQUIDE**

[72] MUNIZ, THOMAS P., US
[72] MELACK, JOHN, US
[71] WISK AERO LLC, US
[85] 2021-05-19
[86] 2019-12-12 (PCT/US2019/066057)
[87] (WO2020/123854)
[30] US (16/217,616) 2018-12-12

[21] **3,120,627**
[13] A1

[51] **Int.Cl. G02B 27/09 (2006.01) G06T 3/00 (2006.01) G06T 5/00 (2006.01) G06T 15/20 (2011.01)**

[25] EN
[54] **METHOD AND APPARATUS FOR REMAPPING PIXEL LOCATIONS**

[54] **PROCEDE ET APPAREIL DE REMAPPAGE D'EMPLACEMENTS DE PIXEL**

[72] EMIG, DAVID MICHAEL, US
[72] EBERT, BROCK ALAN, US
[72] LINN, TERRY R., US
[71] FLIGHTSAFETY INTERNATIONAL, US
[85] 2021-05-19
[86] 2019-11-19 (PCT/US2019/062273)
[87] (WO2020/106760)
[30] US (62/769,368) 2018-11-19

[21] **3,120,630**
[13] A1

[51] **Int.Cl. E04B 1/41 (2006.01) E04B 1/48 (2006.01)**

[25] EN
[54] **IMPROVED CONNECTOR**

[54] **RACCORD AMELIORE**

[72] ROGERS, LANCE, AU
[71] ROGERS, LANCE, AU
[85] 2021-05-20
[86] 2019-12-20 (PCT/AU2019/051425)
[87] (WO2020/124165)
[30] AU (2018904920) 2018-12-21

[21] **3,120,632**
[13] A1

[51] **Int.Cl. A61K 33/30 (2006.01) A61K 9/00 (2006.01) A61K 31/198 (2006.01) A61P 1/00 (2006.01) A61P 1/02 (2006.01) A61P 1/04 (2006.01)**

[25] EN
[54] **ORAL CARE COMPOSITION COMPRISING ZINC AND AN AMINO ACID FOR TREATING SYMPTOMS OF A GASTRIC DISORDER IN THE ORAL CAVITY**

[54] **COMPOSITION DE SOIN BUCCODENTAIRE COMPRENANT DU ZINC ET UN ACIDE AMINE POUR LE TRAITEMENT DE SYMPTOMES D'UN TROUBLE GASTRIQUE DANS LA CAVITE BUCCALE**

[72] MANUS, LISA, US
[72] STRANICK, MICHAEL, US
[72] WU, DONGHUI, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2021-05-19
[86] 2019-12-13 (PCT/US2019/066225)
[87] (WO2020/131616)
[30] US (62/782,838) 2018-12-20

[21] **3,120,633**
[13] A1

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

[25] EN
[54] **SYSTEM AND METHOD FOR DISPENSING A MIXTURE OF A LIQUID AND AN ADDITIVE AND CARTRIDGE FOR USE THEREIN**

[54] **SYSTEME ET METHODE DE DISTRIBUTION D'UN MELANGE D'UN LIQUIDE ET D'UN ADDITIF ET CARTOUCHE POUR UNE UTILISATION DANS CEUX-CI**

[72] NERVO, PAULO, NL
[72] VAN MELICK, DENNIS, NL
[72] VAN WIJK, DOMINICUS JAN, NL
[71] DISPENSING TECHNOLOGIES B.V., NL
[85] 2021-05-20
[86] 2019-11-26 (PCT/EP2019/082642)
[87] (WO2020/109341)
[30] NL (2022072) 2018-11-26

[21] **3,120,634**
[13] A1

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/04 (2006.01) B23K 9/09 (2006.01) B23K 9/12 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING HEAT INPUT DURING SHORT-CIRCUITING TYPE WELDING PROCESSES**

[54] **SYSTEMES ET PROCEDES DE REGULATION D'ENTREE DE CHALEUR PENDANT DES PROCESSUS DE SOUDAGE DE TYPE A COURT-CIRCUIT**

[72] HUTCHISON, RICHARD M., US
[72] WAGNER, DUSTIN, US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2021-05-19
[86] 2019-12-19 (PCT/US2019/067370)
[87] (WO2020/139678)
[30] US (62/785,852) 2018-12-28
[30] US (16/715,800) 2019-12-16

[21] **3,120,635**
[13] A1

[51] **Int.Cl. A61L 29/14 (2006.01) A61L 29/08 (2006.01) A61M 25/00 (2006.01)**

[25] EN
[54] **HYDRATION SOLUTIONS CONTAINING VOLATILE SOLUTES AND MEDICAL DEVICE PRODUCTS INCLUDING THE SAME**

[54] **SOLUTIONS D'HYDRATATION CONTENANT DES SOLUTES VOLATILS ET PRODUITS DE DISPOSITIFS MEDICAUX COMPRENANT CELLES-CI**

[72] FARRELL, DAVID J., US
[72] MURNAGHAN, KEVIN, US
[71] HOLLISTER INCORPORATED, US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062365)
[87] (WO2020/106812)
[30] US (62/770,294) 2018-11-21

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[21] **3,120,636**
[13] A1

[51] **Int.Cl. B67D 1/12 (2006.01) B67D 1/00 (2006.01) B67D 1/08 (2006.01)**
[25] EN
[54] **BACKFLOW DETECTION AND MIXING MODULE WITH A THERMAL MASS FLOW METER**
[54] **MODULE DE DETECTION DE REFLUX ET DE MELANGE DOTE D'UN DEBITMETRE MASSIQUE THERMIQUE**
[72] DALBERG, JAMES, US
[72] ROBERTS, JEVAWN SEBASTIAN, US
[72] JOHNSON, BRIAN B., US
[71] THE COCA-COLA COMPANY, US
[85] 2021-05-19
[86] 2019-12-20 (PCT/US2019/067871)
[87] (WO2020/132454)
[30] US (62/783,113) 2018-12-20

[21] **3,120,637**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE PACKAGE**
[54] **EMBALLAGE DE DISPOSITIF MEDICAL**
[72] MURRAY, MICHAEL G., US
[72] O'FLYNN, PADRAIG M., US
[71] HOLLISTER INCORPORATED, US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062382)
[87] (WO2020/106822)
[30] US (62/770,342) 2018-11-21

[21] **3,120,638**
[13] A1

[51] **Int.Cl. C12N 15/62 (2006.01)**
[25] EN
[54] **RNA ENCODING A PROTEIN**
[54] **ARN CODANT POUR UNE PROTEINE**
[72] SELVARAJ, JUSTIN ANTONY, DE
[72] SCHAFFHAUSER, HERVE, FR
[72] METZGER, FRIEDRICH, DE
[71] VERSAMEB AG, CH
[85] 2021-05-20
[86] 2019-12-18 (PCT/EP2019/086019)
[87] (WO2020/127532)
[30] EP (18214221.6) 2018-12-19
[30] EP (19208066.1) 2019-11-08

[21] **3,120,639**
[13] A1

[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/4436 (2006.01) A61P 3/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING NEURODEGENERATIVE, MYODEGENERATIVE, AND LYSOSOMAL STORAGE DISORDERS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE TROUBLES NEURODEGENERATIFS, MYODEGENERATIFS ET DU STOCKAGE LYSOSOMAL**
[72] WOLF, CHRISTIAN, US
[72] KALUVU, BALARAMAN, US
[72] MOUSSA, CHARBEL, US
[71] GEORGETOWN UNIVERSITY, US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062387)
[87] (WO2020/106825)
[30] US (62/769,791) 2018-11-20

[21] **3,120,640**
[13] A1

[51] **Int.Cl. H04W 4/021 (2018.01) H04W 4/02 (2018.01) G06Q 10/06 (2012.01) G06Q 10/00 (2012.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **OCCUPANT AND GUEST INTERACTION WITH A VIRTUAL ENVIRONMENT**
[54] **INTERACTION ENTRE OCCUPANT ET INVITE AVEC UN ENVIRONNEMENT VIRTUEL**
[72] SCHOENFELDER, LUKE ANDREW, US
[72] SOLE, IVAN ALMARAL, US
[71] LATCH, INC., US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062397)
[87] (WO2020/106830)
[30] US (62/770,104) 2018-11-20

[21] **3,120,641**
[13] A1

[51] **Int.Cl. B65D 21/02 (2006.01) B65D 25/54 (2006.01) B65D 81/26 (2006.01) B65G 1/00 (2006.01)**
[25] EN
[54] **TRANSPORT CONTAINER HAVING OFFSET SIDEWALL SLOTS**
[54] **RECIPIENT DE TRANSPORT POURVU DE FENTES DE PAROIS LATERALES DECALEES**
[72] HUIZINGH, JOHN, NL
[71] SCHOELLER ALLIBERT GMBH, DE
[85] 2021-05-20
[86] 2019-12-05 (PCT/EP2019/083851)
[87] (WO2020/115225)
[30] EP (18210749.0) 2018-12-06

[21] **3,120,643**
[13] A1

[51] **Int.Cl. H02J 50/20 (2016.01) H02J 50/00 (2016.01) A61N 1/362 (2006.01) A61N 1/368 (2006.01) A61N 1/372 (2006.01) A61N 1/378 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING WIRELESSLY POWERED LEADLESS PACEMAKERS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE STIMULATEURS CARDIAQUES SANS FIL ALIMENTES PAR VOIE SANS FIL**
[72] BABAKHANI, AYDIN, US
[72] LYU, HONGMING, US
[72] RAZAVI, MEHDI, US
[72] JOHN, MATHEWS, US
[72] POST, ALLISON, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] TEXAS HEART INSTITUTE, US
[85] 2021-05-19
[86] 2019-11-20 (PCT/US2019/062443)
[87] (WO2020/106862)
[30] US (62/769,984) 2018-11-20
[30] US (62/845,619) 2019-05-09

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[21] **3,120,645**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/145 (2006.01) A61M 39/02 (2006.01) A61B 5/0215 (2006.01) A61B 5/06 (2006.01)**

[25] EN

[54] **VASCULAR ACCESS DEVICES FOR MONITORING PATIENT HEALTH**

[54] **DISPOSITIFS D'ACCES VASCULAIRE POUR SURVEILLER LA SANTE D'UN PATIENT**

[72] MITCHELL, JAMES D., US

[72] JOHNSON, THEODORE C., US

[72] THORESON, ANDREW, US

[72] COATES, JAYME ORMISTON, US

[71] ONCODISC, INC., US

[85] 2021-05-19

[86] 2019-11-20 (PCT/US2019/062483)

[87] (WO2020/106890)

[30] US (62/770,033) 2018-11-20

[30] US (62/809,689) 2019-02-24

[21] **3,120,646**
[13] A1

[51] **Int.Cl. G03B 21/28 (2006.01) G03B 21/62 (2014.01) G06F 3/01 (2006.01) G06F 3/044 (2006.01) G06F 3/14 (2006.01)**

[25] EN

[54] **REAR PROJECTION SIMULATOR WITH FREEFORM FOLD MIRROR**

[54] **SIMULATEUR DE PROJECTION ARRIERE A MIROIR Pliable DE FORME LIBRE**

[72] SPIEGELMAN, ADAM KRISTOPHER, US

[72] KNAPLUND, JUSTIN KING, US

[71] FLIGHTSAFETY INTERNATIONAL, US

[85] 2021-05-19

[86] 2019-11-20 (PCT/US2019/062485)

[87] (WO2020/106892)

[30] US (62/769,667) 2018-11-20

[21] **3,120,647**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 9/00 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **TREATMENT OF CYSTIC FIBROSIS BY DELIVERY OF NEBULIZED MRNA ENCODING CFTR**

[54] **TRAITEMENT DE LA FIBROSE KYSTIQUE PAR ADMINISTRATION D'ARNM NEBULISE CODANT POUR LA CFTR**

[72] KARVE, SHRIRANG, US

[72] DEROSA, FRANK, US

[72] HEARTLEIN, MICHAEL, US

[72] PATEL, ZARNA, US

[71] TRANSLATE BIO, INC., US

[85] 2021-05-19

[86] 2019-11-21 (PCT/US2019/062592)

[87] (WO2020/106946)

[30] US (62/770,596) 2018-11-21

[30] US (62/829,461) 2019-04-04

[30] US (62/846,458) 2019-05-10

[30] US (62/848,401) 2019-05-15

[21] **3,120,648**
[13] A1

[51] **Int.Cl. A44C 5/24 (2006.01) A41H 1/02 (2006.01) A44C 5/02 (2006.01) G04B 37/14 (2006.01)**

[25] FR

[54] **METHOD FOR CONFIGURING A WRISTWATCH STRAP**

[54] **PROCEDE DE CONFIGURATION D'UN BRACELET DE MONTRE BRACELET**

[72] GROZEL, CLEMENT, FR

[72] HAEGY, FRANCK, FR

[72] JAFFRE, JULIEN, FR

[71] ROLEX SA, CH

[85] 2021-05-20

[86] 2019-11-25 (PCT/EP2019/082454)

[87] (WO2020/109246)

[30] EP (18208366.7) 2018-11-26

[21] **3,120,649**
[13] A1

[51] **Int.Cl. B23K 11/00 (2006.01) B23K 11/11 (2006.01) B23K 11/36 (2006.01)**

[25] EN

[54] **RIVET DISPENSING SYSTEMS AND METHODS OF USE THEREOF**

[54] **SYSTEMES DISTRIBUTEURS DE RIVETS ET LEURS PROCEDES D'UTILISATION**

[72] VANDERZWET, DANIEL PETER, CA

[72] BRITTON, SIMON MAURICE, CA

[72] KOSCIELSKI, LARRY FRANK, CA

[72] MICHAUD, ERIC JEAN, CA

[72] SIMONE, DAVID MARIO, CA

[72] SPINELLA, DONALD J., US

[72] IASELLA, GINO N., US

[72] BERGSTROM, DANIEL, US

[72] WILCOX, ROBERT B., US

[72] KINGSBURY, THOMAS R., US

[72] MUSGROVE, GRAHAM SCOTT, US

[71] HOWMET AEROSPACE INC., US

[71] CENTERLINE (WINDSOR) LIMITED, CA

[85] 2021-05-17

[86] 2019-12-13 (PCT/US2019/066133)

[87] (WO2020/123896)

[30] US (62/778,939) 2018-12-13

[21] **3,120,650**
[13] A1

[51] **Int.Cl. A44C 5/24 (2006.01) A41H 1/02 (2006.01) A44C 5/02 (2006.01) G04B 37/14 (2006.01)**

[25] FR

[54] **METHOD FOR CONFIGURING A WRISTWATCH STRAP**

[54] **PROCEDE DE CONFIGURATION D'UN BRACELET DE MONTRE BRACELET**

[72] GROZEL, CLEMENT, FR

[72] HAEGY, FRANCK, FR

[72] JAFFRE, JULIEN, FR

[71] ROLEX SA, CH

[85] 2021-05-20

[86] 2019-11-25 (PCT/EP2019/082453)

[87] (WO2020/109245)

[30] EP (18208366.7) 2018-11-26

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[21] **3,120,651**
[13] A1

[51] **Int.Cl. G01D 5/245 (2006.01)**
[25] FR
[54] **MEASUREMENT OF A RELATIVE POSITION OF MOVABLE ELEMENTS**
[54] **MESURE D'UNE POSITION RELATIVE D'ELEMENTS MOBILES**
[72] DAVID, CAMILLE, FR
[71] SAFRAN ELECTRONICS & DEFENSE, FR
[85] 2021-05-20
[86] 2019-11-20 (PCT/FR2019/052769)
[87] (WO2020/109699)
[30] FR (18 72039) 2018-11-29

[21] **3,120,652**
[13] A1

[51] **Int.Cl. B60C 11/24 (2006.01) B60C 23/04 (2006.01)**
[25] FR
[54] **METHOD FOR OBTAINING THE DEFORMATION OF A TYRE UNDER LOAD WHEN RUNNING**
[54] **PROCEDE D'OBTENTION DE LA DEFORMATION D'UN PNEUMATIQUE SOUS CHARGE EN ROULAGE**
[72] ALFF, DENIS, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2021-05-20
[86] 2019-12-16 (PCT/FR2019/053093)
[87] (WO2020/128279)
[30] FR (FR1873901) 2018-12-21
[30] FR (FR1900871) 2019-01-30

[21] **3,120,653**
[13] A1

[51] **Int.Cl. B01J 19/08 (2006.01) B01J 8/08 (2006.01)**
[25] EN
[54] **PRODUCTION OF IMMOBILISED BACTERIOPHAGE**
[54] **PRODUCTION DE BACTERIOPHAGE IMMOBILISE**
[72] MICHAEL, MATTEY, GB
[71] FIXED PHAGE LIMITED, GB
[85] 2021-05-20
[86] 2019-11-22 (PCT/EP2019/082323)
[87] (WO2020/104691)
[30] EP (18207889.9) 2018-11-22

[21] **3,120,654**
[13] A1

[51] **Int.Cl. H04L 12/10 (2006.01) G06F 1/26 (2006.01) H01B 11/02 (2006.01) H02J 4/00 (2006.01) H04L 29/06 (2006.01)**
[25] EN
[54] **INTERMEDIARY DEVICE FOR EXTRACTING POWER SUPPLIED OVER A DATA CONNECTION**
[54] **DISPOSITIF INTERMEDIAIRE D'EXTRACTION DE PUISSANCE FOURNIE SUR UNE CONNEXION DE DONNEES**
[72] ROY, DANNY, CA
[72] BRAIS, LOUIS-PHILIPPE, CA
[72] LEMIEUX, BENOIT, CA
[71] GENETEC INC., CA
[85] 2021-05-19
[86] 2019-11-19 (PCT/CA2019/051652)
[87] (WO2020/102894)
[30] US (62/769,233) 2018-11-19
[30] US (62/928,543) 2019-10-31

[21] **3,120,655**
[13] A1

[51] **Int.Cl. G02B 6/00 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER CABLE HAVING BUFFER COUPLED TO ARMOR USING WATER-BLOCK ADHESIVE AND METHOD**
[54] **CABLE A FIBRE OPTIQUE AYANT UN TAMPON COUPLE A UN BLINDAGE A L'AIDE D'UN ADHESIF DE BLOCAGE D'EAU ET PROCEDE**
[72] BLAZER, BRADLEY JEROME, US
[72] CHEN, YANGBIN, US
[72] MILLER, ALLEN MICHAEL, US
[72] QUINN, CHRISTOPHER MARK, US
[72] SMITH, RANDY CURTIS, US
[71] CORNING RESEARCH & DEVELOPMENT CORPORATION, US
[85] 2021-05-20
[86] 2019-11-12 (PCT/US2019/060984)
[87] (WO2020/106497)
[30] US (62/770,350) 2018-11-21

[21] **3,120,656**
[13] A1

[51] **Int.Cl. G09B 9/00 (2006.01) A61B 34/20 (2016.01) A61B 17/92 (2006.01) G09B 23/28 (2006.01)**
[25] EN
[54] **IMPACTOR MECHANISM FOR VIRTUAL REALITY SURGERY SIMULATION SYSTEM AND TELESURGERY**
[54] **MECANISME D'IMPACTEUR POUR SYSTEME DE SIMULATION DE CHIRURGIE EN REALITE VIRTUELLE ET TELECHIRURGIE**
[72] BLAIN, ANDRE, CA
[72] DELORME, SEBASTIEN, CA
[72] MASSE, VINCENT, CA
[72] JOUAULT, ERWAN, CA
[72] JOMPHE, SEBASTIEN, CA
[72] HAY, ALEXANDER, CA
[71] OSSIMTECH INC., CA
[85] 2021-05-20
[86] 2018-11-16 (PCT/CA2018/051458)
[87] (WO2019/100148)
[30] US (62/589,286) 2017-11-21

[21] **3,120,657**
[13] A1

[51] **Int.Cl. C23C 18/12 (2006.01) H01L 31/032 (2006.01)**
[25] EN
[54] **NICKEL OXIDE SOL-GEL INK**
[54] **ENCRE SOL-GEL D'OXYDE DE NICKEL**
[72] IRWIN, MICHAEL D., US
[72] SANEHIRA, ERIN, US
[71] HUNT PEROVSKITE TECHNOLOGIES, L.L.C., US
[85] 2021-05-20
[86] 2019-11-14 (PCT/US2019/061462)
[87] (WO2020/106542)
[30] US (62/770,389) 2018-11-21
[30] US (16/577,781) 2019-09-20

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[21] **3,120,658**
[13] A1

[51] **Int.Cl. C07C 309/51 (2006.01) A61K 31/145 (2006.01) C07C 309/41 (2006.01) C07C 309/45 (2006.01) C07C 309/46 (2006.01) C07C 311/08 (2006.01) C07C 311/14 (2006.01) C07C 311/21 (2006.01)**

[25] EN

[54] **DISULFONATE STILBENES FOR USE IN THE TREATMENT OF PROLIFERATIVE DISEASES**

[54] **STILBENES DE DISULFONATE DESTINES A ETRE UTILISES POUR TRAITER DES MALADIES PROLIFERATIVES**

[72] FLEURY, FABRICE, FR
[72] DEMEYER, ALEXANDRE, FR
[72] WEIGEL, PIERRE, FR
[72] CHENAIS, BENOIT, FR
[72] MATHE, MONIQUE, FR
[72] LEBRETON, JACQUES, FR
[71] UNIVERSITE DE NANTES, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DU MANS, FR
[85] 2021-05-20
[86] 2019-11-22 (PCT/EP2019/082176)
[87] (WO2020/104634)
[30] EP (18306546.5) 2018-11-22

[21] **3,120,659**
[13] A1

[51] **Int.Cl. B29B 11/08 (2006.01) B29C 45/26 (2006.01)**

[25] EN

[54] **MOLDS, MOLD ASSEMBLIES AND STACK COMPONENTS**

[54] **MOULES, ENSEMBLES MOULES ET ELEMENTS D'EMPILEMENT**

[72] MCCREADY, DEREK ROBERTSON, CA

[71] HUSKY INJECTION MOLDING SYSTEMS LTD., CA

[85] 2021-05-20
[86] 2019-11-20 (PCT/CA2019/051657)
[87] (WO2020/118412)
[30] US (62/778,023) 2018-12-11
[30] US (62/841,284) 2019-05-01

[21] **3,120,660**
[13] A1

[51] **Int.Cl. C07C 45/50 (2006.01) C07C 47/02 (2006.01)**

[25] EN

[54] **HYDROFORMYLATION PROCESS**

[54] **PROCEDE D'HYDROFORMYLATION**

[72] BRAMMER, MICHAEL A., US
[72] GILES, JASON F., US
[72] MILLER, GLENN A., US
[71] DOW TECHNOLOGY INVESTMENTS LLC, US

[85] 2021-05-20
[86] 2019-11-14 (PCT/US2019/061509)
[87] (WO2020/112373)
[30] US (62/772,681) 2018-11-29

[21] **3,120,661**
[13] A1

[51] **Int.Cl. A62D 1/00 (2006.01)**

[25] EN

[54] **FIRE SUPPRESSING PELLETS**

[54] **PASTILLES DE SUPPRESSION D'INCENDIE**

[72] HODGEN, ZACKERY MICHAEL, CA
[72] EMMONS, QUINCY ANDREW, CA
[72] RESENDES, RUI, CA
[71] FIREREIN INC., CA

[85] 2021-05-20
[86] 2019-11-20 (PCT/CA2019/051658)
[87] (WO2020/102897)
[30] US (62/770,400) 2018-11-21

[21] **3,120,662**
[13] A1

[51] **Int.Cl. C03C 17/00 (2006.01) C03C 17/22 (2006.01) C03C 17/245 (2006.01) C03C 21/00 (2006.01)**

[25] EN

[54] **GLASS ARTICLES HAVING DAMAGE-RESISTANT COATINGS AND METHODS FOR COATING GLASS ARTICLES**

[54] **ARTICLES EN VERRE A REVETEMENTS RESISTANTS AUX DETERIORATIONS ET PROCEDES DE REVETEMENT D'ARTICLES EN VERRE**

[72] ALLINGTON, ERIC LEWIS, US
[72] BLACK, MATTHEW LEE, US
[72] DEMARTINO, STEVEN EDWARD, US
[72] MARKLEY, JODY PAUL, US
[72] PAULSON, CHARLES ANDREW, US
[72] WESTBROOK, JAMIE TODD, US
[71] CORNING INCORPORATED, US

[85] 2021-05-20
[86] 2019-10-29 (PCT/US2019/058457)
[87] (WO2020/106412)
[30] US (62/769,758) 2018-11-20

[21] **3,120,663**
[13] A1

[51] **Int.Cl. B29B 11/08 (2006.01) B29C 33/00 (2006.01) B29C 45/17 (2006.01) B29C 45/26 (2006.01)**

[25] EN

[54] **MOLDS, MOLD ASSEMBLIES AND STACK COMPONENTS**

[54] **MOULES, ENSEMBLES MOULES ET COMPOSANTS D'EMPILEMENT**

[72] PANNU, BALTEJ SINGH, CA
[72] SUN, XIN, CA
[72] LOOIJIE, ADRIAN PETER, CA
[72] BRADSHAW, MAXFIELD PAUL, CA
[71] HUSKY INJECTION MOLDING SYSTEMS LTD., CA

[85] 2021-05-20
[86] 2019-11-20 (PCT/CA2019/051660)
[87] (WO2020/142828)
[30] US (62/778,026) 2018-12-11
[30] US (62/814,365) 2019-03-06
[30] US (62/841,287) 2019-05-01

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[21] **3,120,664**
[13] A1

[51] **Int.Cl. H04N 21/266 (2011.01) H04N 21/61 (2011.01) H04N 21/6336 (2011.01) H04N 21/81 (2011.01)**

[25] EN

[54] **INTEGRATED RECEIVER DECODER MANAGEMENT IN HTTP STREAMING NETWORKS**

[54] **GESTION DE DECODEUR DE RECEPTEUR INTEGRE DANS DES RESEAUX DE DIFFUSION EN CONTINU HTTP**

[72] ELSTERMANN, ERIC J., US

[71] ARRIS ENTERPRISES LLC, US

[85] 2021-05-20

[86] 2019-11-08 (PCT/US2019/060380)

[87] (WO2020/106466)

[30] US (16/195,996) 2018-11-20

[21] **3,120,665**
[13] A1

[51] **Int.Cl. A61K 49/12 (2006.01) A61K 49/08 (2006.01) A61K 49/10 (2006.01)**

[25] EN

[54] **FORMULATION OF CONTRAST MEDIA AND PROCESS OF PREPARATION THEREOF**

[54] **FORMULATION DE MILIEUX DE CONTRASTE ET PROCEDE DE PREPARATION ASSOCIE**

[72] HOLZSCHUH, STEPHAN, DE

[72] FRENZEL, THOMAS, DE

[72] JOST, GREGOR, DE

[72] LOHRKE, JESSICA, DE

[72] EBERT, WOLFGANG, DE

[72] BRUMBY, THOMAS, DE

[72] HALFBRODT, WOLFGANG, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE

[85] 2021-05-20

[86] 2019-11-21 (PCT/EP2019/082117)

[87] (WO2020/104602)

[30] EP (18208090.3) 2018-11-23

[21] **3,120,666**
[13] A1

[51] **Int.Cl. H03F 3/70 (2006.01) H01L 29/94 (2006.01) H03F 1/08 (2006.01) H03F 1/26 (2006.01) H03F 3/08 (2006.01) H03F 3/45 (2006.01)**

[25] EN

[54] **CHARGE PREAMPLIFIER DEVICE AND RADIATION DETECTING APPARATUS COMPRISING THE DEVICE**

[54] **DISPOSITIF PREAMPLIFICATEUR DE CHARGE ET APPAREIL DE DETECTION DE RAYONNEMENT COMPRENANT LE DISPOSITIF**

[72] MELE, FILIPPO, IT

[72] BERTUCCIO, GIUSEPPE, IT

[71] POLITECNICO DI MILANO, IT

[85] 2021-05-20

[86] 2019-11-19 (PCT/IB2019/059931)

[87] (WO2020/109924)

[30] IT (102018000010671) 2018-11-29

[21] **3,120,667**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/4709 (2006.01) A61K 31/5355 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **TRIAZOLOPYRIDIN-3-ONES OR THEIR SALTS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME**

[54] **TRIAZOLOPYRIDIN-3-ONES OU LEURS SELS ET COMPOSITIONS PHARMACEUTIQUES LES COMPRENANT**

[72] HAN, TAE DONG, KR

[72] TAK, HEE JAE, KR

[72] KIM, EUN KYUNG, KR

[72] KIM, DONG HOON, KR

[72] CHOI, SU BIN, KR

[72] PARK, SOL, KR

[72] CHOI, HYUN HO, KR

[72] KIM, TAE WANG, KR

[72] JU, MI KYEONG, KR

[72] HA, NA RY, KR

[71] YUHAN CORPORATION, KR

[85] 2021-05-20

[86] 2019-12-12 (PCT/IB2019/060738)

[87] (WO2020/121263)

[30] KR (10-2018-0161732) 2018-12-14

[30] KR (10-2019-0133228) 2019-10-24

[21] **3,120,668**
[13] A1

[51] **Int.Cl. B60Q 1/24 (2006.01) B60Q 1/08 (2006.01) B60Q 1/50 (2006.01) B62D 55/06 (2006.01) E01H 4/02 (2006.01)**

[25] EN

[54] **CRAWLER VEHICLE FOR SKI RUNS AND METHOD OF DISPLAYING INFORMATION FOR SUCH A SNOW CRAWLER VEHICLE**

[54] **VEHICULE A CHENILLES POUR DES PISTES DE SKI ET PROCEDE D'AFFICHAGE D'INFORMATIONS POUR UN TEL VEHICULE DE NEIGE A CHENILLES**

[72] KIRCHMAIR, MARTIN, IT

[72] MUIGG, ANDREAS, IT

[72] CASARTELLI, RICHARD, IT

[72] PAOLETTI, ALBERTO, IT

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

[85] 2021-05-20

[86] 2019-11-21 (PCT/IB2019/060043)

[87] (WO2020/104997)

[30] IT (102018000010490) 2018-11-21

[21] **3,120,669**
[13] A1

[51] **Int.Cl. G01C 11/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR PLANNING SAMPLE POINTS FOR SURVEYING AND MAPPING, CONTROL TERMINAL AND STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE PLANIFICATION D'ARPENTAGE ET DE CARTOGRAPHIE DE POINTS D'ECHANTILLONNAGE, TERMINAL DE COMMANDE ET SUPPORT D'INFORMATIONS**

[72] LIU, PENG, CN

[72] JIN, XIAOHUI, CN

[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN

[85] 2021-05-20

[86] 2018-11-21 (PCT/CN2018/116652)

[87] (WO2020/103019)

Demandes PCT entrant en phase nationale

[21] **3,120,670**
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01) B67D 7/14 (2010.01) G06Q 20/40 (2012.01) G06Q 50/10 (2012.01) B67D 1/08 (2006.01) B67D 1/12 (2006.01)**

[25] EN

[54] **REMOTE BEVERAGE SELECTION WITH A BEVERAGE DISPENSER**

[54] **SELECTION DE BOISSON A DISTANCE AVEC UN DISTRIBUTEUR DE BOISSONS**

[72] CUPPARI, SCOTT, US

[72] MYCROFT, DAMIAN JAMES REEC, US

[72] RUDICK, ARTHUR G., US

[72] KARORI, RABAB SAQIB, US

[72] GIBSON, KEITH A., US

[72] KARIBANDI, AKHIL, US

[72] BOYD, JOHN, US

[72] MULCAHEY, DAVID, US

[72] KHAN, AZAM, US

[72] UCHIL, MIRA, US

[71] THE COCA-COLA COMPANY, US

[85] 2021-05-19

[86] 2019-12-20 (PCT/US2019/067875)

[87] (WO2020/132457)

[30] US (62/783,108) 2018-12-20

[21] **3,120,671**
[13] A1

[51] **Int.Cl. H04W 80/12 (2009.01) H04L 29/02 (2006.01)**

[25] EN

[54] **AGGREGATION OF DATA FRAMES**

[54] **AGREGATION DE TRAMES DE DONNEES**

[72] MCCANN, STEPHEN, CA

[72] MONTEMURRO, MICHAEL PETER, CA

[72] LEPP, JAMES RANDOLPH WINTER, CA

[71] BLACKBERRY LIMITED, CA

[85] 2021-05-20

[86] 2019-12-19 (PCT/CA2019/051855)

[87] (WO2020/142832)

[30] US (62/791,171) 2019-01-11

[30] US (16/676,835) 2019-11-07

[21] **3,120,672**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) H04L 12/24 (2006.01)**

[25] EN

[54] **DYNAMIC INTENT-BASED FIREWALL**

[54] **PARE-FEU BASE SUR UNE INTENTION DYNAMIQUE**

[72] VALLURI, VAMSIDHAR, US

[72] RADHAKRISHNAN, SARAVANAN, IN

[72] OSWAL, ANAND, US

[72] PRABHU, VINAY, US

[72] EVANS, SARAH ADELAIDE, US

[72] RANGASWAMY, SURAJ, US

[71] CISCO TECHNOLOGY, INC., US

[85] 2021-05-20

[86] 2019-11-12 (PCT/US2019/060910)

[87] (WO2020/112345)

[30] US (62/774,103) 2018-11-30

[30] US (16/434,115) 2019-06-06

[21] **3,120,673**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01)**

[25] EN

[54] **SYNERGISTIC DNS SECURITY UPDATE**

[54] **MISE A JOUR DE SECURITE DNS SYNERGIQUE**

[72] VALLURI, VAMSIDHAR, US

[72] PRABHU, VINAY, US

[72] EVANS, SARAH ADELAIDE, US

[72] RANGASWAMY, SURAJ, US

[71] CISCO TECHNOLOGY, INC., US

[85] 2021-05-20

[86] 2019-11-18 (PCT/US2019/061966)

[87] (WO2020/112402)

[30] US (62/774,102) 2018-11-30

[30] US (16/567,435) 2019-09-11

[21] **3,120,674**
[13] A1

[51] **Int.Cl. A01D 91/00 (2006.01) G06Q 50/02 (2012.01) A01D 75/00 (2006.01) G01B 11/245 (2006.01) G01N 21/25 (2006.01)**

[25] EN

[54] **MULTIFUNCTIONAL SYSTEM FOR ADAPTABLE HARVESTING**

[54] **SYSTEME MULTIFONCTIONNEL POUR RECOLTE ADAPTABLE**

[72] LAPALME, ERIC, CA

[71] LAPALME GESTION CONCEPTION MECANIQUE INC., CA

[85] 2021-05-20

[86] 2019-12-09 (PCT/CA2019/051769)

[87] (WO2020/118419)

[30] US (62/777,483) 2018-12-10

[21] **3,120,675**
[13] A1

[51] **Int.Cl. H04B 10/70 (2013.01) H04B 10/50 (2013.01) H04B 10/69 (2013.01)**

[25] EN

[54] **A LOW BRIGHTNESS, ENTANGLEMENT-BASED, SEMI-PASSIVE PRIVATE COMMUNICATION PROTOCOL**

[54] **PROTOCOLE DE COMMUNICATION PRIVE SEMI-PASSIF A FAIBLE LUMINOSITE, A BASE D'ENCHEVETREMENT**

[72] CROWDER, TANNER, US

[72] LANZAGORTA, MARCO, US

[71] THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE NAVY, US

[85] 2021-05-20

[86] 2019-11-19 (PCT/US2019/062093)

[87] (WO2020/106656)

[30] US (62/769,722) 2018-11-20

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[21] **3,120,676**
[13] A1

[51] **Int.Cl. B32B 29/08 (2006.01) B31F 1/28 (2006.01) B32B 9/04 (2006.01) D21H 27/40 (2006.01)**

[25] EN

[54] **FIRE SUPPRESSING PLEATED PACKAGING PAPER AND METHOD OF MANUFACTURING**

[54] **PAPIER D'EMBALLAGE PLISSE EXTINCTEUR ET PROCEDE DE FABRICATION**

[72] MORT, RODGER A., JR., US

[72] GETTLE, GUY LEATH, US

[71] PACKAGING AND CRATING TECHNOLOGIES, LLC, US

[85] 2021-05-20

[86] 2019-11-19 (PCT/US2019/062202)

[87] (WO2020/106712)

[30] US (16/197,616) 2018-11-21

[21] **3,120,683**
[13] A1

[51] **Int.Cl. G06F 15/78 (2006.01)**

[25] EN

[54] **CONFIGURATION LOAD OF A RECONFIGURABLE DATA PROCESSOR**

[54] **CHARGEMENT DE CONFIGURATION D'UN PROCESSEUR DE DONNEES RECONFIGURABLE**

[72] SHAH, MANISH K., US

[72] SIVARAMAKRISHNAN, RAM, US

[72] LUTTRELL, MARK, US

[72] JACKSON, DAVID BRIAN, US

[72] PRABHAKAR, RAGHU, US

[72] JAIRATH, SUMTI, US

[72] GROHOSKI, GREGORY FREDERICK, US

[72] NATARAJA, PRAMOD, US

[71] SAMBANOVA SYSTEMS, INC., US

[85] 2021-05-20

[86] 2019-11-19 (PCT/US2019/062287)

[87] (WO2020/106768)

[30] US (16/197,826) 2018-11-21

[21] **3,120,684**
[13] A1

[51] **Int.Cl. G06F 15/78 (2006.01)**

[25] EN

[54] **CONFIGURATION UNLOAD OF A RECONFIGURABLE DATA PROCESSOR**

[54] **DECHARGEMENT DE CONFIGURATION D'UN PROCESSEUR DE DONNEES RECONFIGURABLE**

[72] SHAH, MANISH K., US

[72] SIVARAMAKRISHNAN, RAM, US

[72] LUTTRELL, MARK, US

[72] JACKSON, DAVID BRIAN, US

[72] PRABHAKAR, RAGHU, US

[72] JAIRATH, SUMTI, US

[72] GROHOSKI, GREGORY FREDERICK, US

[72] NATARAJA, PRAMOD, US

[71] SAMBANOVA SYSTEMS, INC., US

[85] 2021-05-20

[86] 2019-11-19 (PCT/US2019/062289)

[87] (WO2020/106769)

[30] US (16/198,086) 2018-11-21

[21] **3,120,685**
[13] A1

[51] **Int.Cl. H04L 12/46 (2006.01) H04L 12/715 (2013.01) H04L 12/66 (2006.01)**

[25] EN

[54] **END-TO-END IDENTITY-AWARE ROUTING ACROSS MULTIPLE ADMINISTRATIVE DOMAINS**

[54] **ROUTAGE SENSIBLE A L'IDENTITE DE BOUT EN BOUT A TRAVERS DE MULTIPLES DOMAINES ADMINISTRATIFS**

[72] HOODA, SANJAY KUMAR, US

[72] OSWAL, ANAND, US

[72] BHAAU, NEHAL, US

[72] EDATHARA, ANIL, US

[72] MEHTA, MUNISH, US

[71] CISCO TECHNOLOGY, INC., US

[85] 2021-05-20

[86] 2019-11-19 (PCT/US2019/062292)

[87] (WO2020/112448)

[30] US (62/774,067) 2018-11-30

[30] US (16/535,519) 2019-08-08

[21] **3,120,688**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01)**

[25] EN

[54] **METHOD FOR MANAGING STOCK WITHIN A STORE**

[54] **PROCEDE DE GESTION DE STOCK DANS UN MAGASIN**

[72] BOGOLEA, BRADLEY, US

[71] SIMBE ROBOTICS, INC, US

[85] 2020-12-17

[86] 2019-06-24 (PCT/US2019/038779)

[87] (WO2019/246628)

[30] US (62/689,082) 2018-06-23

[21] **3,120,690**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/45 (2006.01) A61K 39/385 (2006.01) A61K 39/395 (2006.01) A61P 37/02 (2006.01) C07K 14/155 (2006.01) C07K 14/16 (2006.01) C07K 14/725 (2006.01) C07K 14/73 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR REDUCING NUMBERS OR ELIMINATING HIV-INFECTED CELLS**

[54] **PROCEDES ET COMPOSITIONS POUR REDUIRE LE NOMBRE DE CELLULES INFECTEES PAR LE VIH OU ELIMINER CELLES-CI**

[72] ABDEL-MOHSSEN, MOHAMED, US

[72] COLOMB, FLORENT, US

[72] GIRON, BERTONI LEILA, US

[71] THE WISTAR INSTITUTE FOR ANATOMY AND BIOLOGY, US

[85] 2021-05-20

[86] 2019-11-19 (PCT/US2019/062207)

[87] (WO2020/106714)

[30] US (62/770,134) 2018-11-20

Demandes PCT entrant en phase nationale

[21] **3,120,694**
[13] A1

[51] **Int.Cl. A61B 3/107 (2006.01) A61F 9/008 (2006.01)**
[25] EN
[54] **INTELLIGENT TOPOGRAPHIC CORNEAL PROCEDURE ADVISOR**
[54] **CONSEILLER INTELLIGENT EN INTERVENTION CORNEENNE TOPOGRAPHIQUE**
[72] LOBANOFF, MARK, US
[71] LOBANOFF, MARK, US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062442)
[87] (WO2020/106861)
[30] US (62/770,045) 2018-11-20
[30] US (62/798,162) 2019-01-29
[30] US (16/523,198) 2019-07-26

[21] **3,120,695**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**
[25] EN
[54] **MONONUCLEAR CELL DERIVED NK CELLS**
[54] **CELLULES NK DERIVEES DE CELLULES MONONUCLEAIRES**
[72] DUGGAL, ROHIT, US
[72] SINHA, RANJEET, US
[72] LI, WENZHAO, US
[72] ISAACSON, JASON, US
[72] MARQUEZ, KARL, US
[72] SOON-SHIONG, PATRICK, US
[71] NANTKWEST, INC., US
[85] 2021-05-20
[86] 2019-07-08 (PCT/US2019/040867)
[87] (WO2021/006875)

[21] **3,120,696**
[13] A1

[51] **Int.Cl. B65B 51/02 (2006.01) B65B 35/10 (2006.01) B65B 53/06 (2006.01)**
[25] EN
[54] **ANCHOR PACKAGING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'EMBALLAGE D'ANCRAGE**
[72] WILEY, TED, US
[71] WILEY, TED, US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062451)
[87] (WO2020/106868)
[30] US (62/770,039) 2018-11-20

[21] **3,120,697**
[13] A1

[51] **Int.Cl. E21B 47/09 (2012.01) E21B 43/02 (2006.01) E21B 43/08 (2006.01) G01S 3/80 (2006.01)**
[25] EN
[54] **EXPANDABLE FILTRATION MEDIA AND GRAVEL PACK ANALYSIS USING LOW FREQUENCY ACOUSTIC WAVES**
[54] **MILIEU DE FILTRATION EXTENSIBLE ET ANALYSE DE FILTRE A GRAVIER A L'AIDE D'ONDES ACOUSTIQUES BASSE FREQUENCE**
[72] PATTERSON, DOUGLAS J., US
[71] BAKER HUGHES HOLDINGS LLC, US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062322)
[87] (WO2020/106789)
[30] US (62/769,830) 2018-11-20

[21] **3,120,698**
[13] A1

[51] **Int.Cl. A01G 31/02 (2006.01) A01G 31/00 (2018.01)**
[25] EN
[54] **HYDROPONIC GROWING UNIT**
[54] **UNITE DE CULTURE HYDROPONIQUE**
[72] CRAIG, JOSEPH, US
[72] SCHULTZ, BRADLEY, US
[72] GRAY, ANGIE, US
[72] MAIDEN, WHITNEY, US
[72] BERGER, RYAN, US
[72] MONTAG, SEAN, US
[71] OMS INVESTMENTS, INC., US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062413)
[87] (WO2020/106839)
[30] US (62/770,213) 2018-11-21

[21] **3,120,699**
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) A61K 38/10 (2006.01) A61P 15/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING ENDOMETRIOSIS**
[54] **COMPOSITIONS ET METHODES POUR TRAITER L'ENDOMETRIOSE**
[72] PETROSSIAN, TANYA, US
[72] FIACCO, STEPHEN, US
[72] ROSE, TRISTIN, US
[72] HARDY, AMANDA, US
[72] BODDUPALLY, KEERTHI, US
[72] WILLMORE, MATTHEW, US
[71] ENDOMET BIOSCIENCES, INC., US
[85] 2021-05-20
[86] 2019-11-21 (PCT/US2019/062679)
[87] (WO2020/106995)
[30] US (62/770,601) 2018-11-21

[21] **3,120,700**
[13] A1

[51] **Int.Cl. C07H 13/04 (2006.01)**
[25] EN
[54] **BIOSYNTHESIS OF COMPOUNDS IN YEAST**
[54] **BIOSYNTHESE DE COMPOSES DANS LA LEVURE**
[72] WALTER, JESSICA, US
[72] LERMAN, JOSHUA A., US
[72] LEAVELL, MICHAEL, US
[72] YAP, BENJAMIN, US
[71] AMYRIS, INC., US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062454)
[87] (WO2020/106870)
[30] US (16/198,545) 2018-11-21

PCT Applications Entering the National Phase

[21] **3,120,701**
[13] A1

[51] **Int.Cl. C07K 14/71 (2006.01) A61K 38/00 (2006.01) A61K 38/22 (2006.01) C07K 14/50 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **METHODS AND MATERIALS FOR REDUCING AGE-RELATED STRIATED MUSCLE AND COGNITIVE DECLINE**

[54] **METHODES ET MATERIELS DE REDUCTION D'UN MUSCLE STRIE ET D'UN DECLIN COGNITIF LIES A L'AGE**

[72] AMBROSIO, FABRISIA, US

[72] BARCHOWSKY, AARON, US

[72] CHEIKHI, AMIN, US

[72] KOLDAMOVA, RADA, US

[72] LEFTEROV, ILIYA, US

[72] SAHU, AMRITA, US

[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062682)

[87] (WO2020/106997)

[30] US (62/770,615) 2018-11-21

[21] **3,120,702**
[13] A1

[51] **Int.Cl. A61K 8/35 (2006.01) A61K 8/81 (2006.01) A61Q 19/04 (2006.01)**

[25] EN

[54] **IMPROVED SELF-TANNING COMPOSITIONS**

[54] **COMPOSITIONS AUTOBRONZANTES AMELIOREES**

[72] LEE, WILSON A., US

[72] DOWLING, JACKLYN, US

[71] ELC MANAGEMENT LLC, US

[85] 2021-05-20

[86] 2019-11-20 (PCT/US2019/062456)

[87] (WO2020/106872)

[30] US (16/197,858) 2018-11-21

[21] **3,120,703**
[13] A1

[51] **Int.Cl. H01L 23/367 (2006.01) H01L 23/373 (2006.01) H01L 23/44 (2006.01) H01L 23/66 (2006.01) H01L 27/18 (2006.01) H01L 39/22 (2006.01)**

[25] EN

[54] **SUPERCONDUCTING DEVICE WITH MULTIPLE THERMAL SINKS**

[54] **DISPOSITIF SUPRACONDUCTEUR A MULTIPLES DISSIPATEURS THERMIQUES**

[72] HATHAWAY, AARON ASHLEY, US

[72] BOYD, GREGORY R., US

[72] PRZYBYSZ, JOHN X., US

[71] NORTHRUP GRUMMAN SYSTEMS CORPORATION, US

[85] 2021-05-20

[86] 2019-11-25 (PCT/US2019/063041)

[87] (WO2020/131314)

[30] US (16/227,965) 2018-12-20

[21] **3,120,704**
[13] A1

[51] **Int.Cl. C12Q 1/48 (2006.01) B82Y 5/00 (2011.01) A61K 47/54 (2017.01) A61K 31/454 (2006.01)**

[25] EN

[54] **METHODS OF TREATING MYELOYDYSPLASTIC SYNDROME**

[54] **PROCEDES DE TRAITEMENT DU SYNDROME MYELOYDYSPLASIQUE**

[72] RIZO, ALEKSANDRA, US

[72] BUSSOLARI, JACQUELINE CIRILLO, US

[72] HUANG, FEI, US

[71] GERON CORPORATION, US

[85] 2021-05-20

[86] 2019-11-26 (PCT/US2019/063372)

[87] (WO2020/112854)

[30] US (62/772,861) 2018-11-29

[30] US (62/811,271) 2019-02-27

[30] US (62/860,557) 2019-06-12

[21] **3,120,705**
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01)**

[25] EN

[54] **HARD HAT LAMP ATTACHMENT SYSTEM**

[54] **SYSTEME DE FIXATION DE LAMPE SUR CASQUE DE PROTECTION**

[72] HYMA, STEVEN W., US

[71] MILWAUKEE ELECTRIC TOOL CORPORATION, US

[85] 2021-05-20

[86] 2019-11-20 (PCT/US2019/062464)

[87] (WO2020/106878)

[30] US (62/770,466) 2018-11-21

[21] **3,120,706**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61P 1/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CONDITIONS RELATED TO THE S1P1 RECEPTOR**

[54] **METHODES DE TRAITEMENT D'ETATS LIES AU RECEPTEUR S1P1**

[72] NAIK, SNEHAL, US

[71] ARENA PHARMACEUTICALS, INC., US

[85] 2021-05-20

[86] 2019-11-26 (PCT/US2019/063413)

[87] (WO2020/112880)

[30] US (62/773,936) 2018-11-30

[30] US (62/850,464) 2019-05-20

[21] **3,120,707**
[13] A1

[51] **Int.Cl. A43B 3/22 (2006.01) A43B 13/14 (2006.01) A43B 13/18 (2006.01)**

[25] EN

[54] **SLIP-RESISTANT FOOTWEAR TREAD INCLUDING WIDE DISPERSION CHANNELS**

[54] **BANDE DE ROULEMENT D'ARTICLE CHAUSSANT RESISTANTE AU GLISSEMENT COMPRENANT DES CANAUX DE DISPERSION LARGES**

[72] KUBIS, PATRICK, US

[72] RANDESI, JAMES, US

[71] SAF-GARD SAFETY SHOE CO., US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062631)

[87] (WO2020/106969)

[30] US (62/770,248) 2018-11-21

Demandes PCT entrant en phase nationale

[21] **3,120,708**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/00 (2006.01)**

[25] EN

[54] **SAMPLE COLLECTION SYSTEM INCLUDING SEALING CAP AND VALVE**

[54] **SYSTEME DE COLLECTE D'ECHANTILLON COMPRENANT UN CAPUCHON D'ETANCHEITE ET UNE SOUPEPE**

[72] WILLIAMS, KEVIN, US
[72] JOHNSON, NEIL, US
[71] SPECTRUM SOLUTIONS, LLC, US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062484)
[87] (WO2020/106891)
[30] US (62/769,740) 2018-11-20
[30] US (16/689,538) 2019-11-20

[21] **3,120,709**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6886 (2018.01) C12Q 1/689 (2018.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING CANCER**

[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT DU CANCER**

[72] WARGO, JENNIFER A., US
[72] GOPALAKRISHNAN, VANCHESWARAN, US
[72] ANDREWS, MILES C., US
[72] ZITVOGEL, LAURENCE, US
[72] IEBBA, VALERIO, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[71] INSTITUT GUSTAVE ROUSSY, FR
[85] 2021-05-20
[86] 2019-11-21 (PCT/US2019/062659)
[87] (WO2020/106983)
[30] US (62/770,603) 2018-11-21
[30] US (62/826,631) 2019-03-29

[21] **3,120,710**
[13] A1

[51] **Int.Cl. H04L 12/46 (2006.01) H04L 12/28 (2006.01) H04L 12/44 (2006.01)**

[25] EN

[54] **LOGICAL ROUTER COMPRISING DISAGGREGATED NETWORK ELEMENTS**

[54] **ROUTEUR LOGIQUE COMPRENANT DES ELEMENTS DE RESEAU DESAGREGES**

[72] PATEL, KEYUR, US
[72] PAI, NALINAKSH, US
[72] BUSH, RANDALL, US
[72] RAGUKUMAR, VIKRAM, US
[72] SHANKER, ASHUTOSH, US
[72] RAJARAMAN, KAIYANI, US
[72] AUSTEIN, ROBERT, US
[72] ARIES, EBBEN, US
[72] KUMAR, LALIT, US
[72] PITCHAI, SRIDHAR, US
[72] GURUSAMY, RAJKUMAR, US
[71] ARRCUS INC., US
[85] 2021-05-20
[86] 2019-11-26 (PCT/US2019/063229)
[87] (WO2020/112756)
[30] US (62/771,407) 2018-11-26

[21] **3,120,711**
[13] A1

[51] **Int.Cl. C08F 2/50 (2006.01) C08F 2/46 (2006.01) C08F 2/48 (2006.01) C08G 59/00 (2006.01) C08G 59/18 (2006.01) C08G 59/68 (2006.01)**

[25] EN

[54] **APPARATUS AND METHODS USING COATINGS FOR METAL APPLICATIONS**

[54] **APPAREIL ET PROCEDES UTILISANT DES REVETEMENTS POUR DES APPLICATIONS METALLIQUES**

[72] PHILLIPS, MICHAEL, US
[72] CUNNINGHAM, JOHN, US
[71] G3 ENTERPRISES, INC., US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062491)
[87] (WO2020/106895)
[30] US (62/770,006) 2018-11-20

[21] **3,120,712**
[13] A1

[51] **Int.Cl. D03D 1/00 (2006.01) D03D 3/02 (2006.01) D03D 13/00 (2006.01) D03D 15/00 (2021.01)**

[25] EN

[54] **MEDICAL TEXTILE HAVING LOW DENIER PER FILAMENT YARN**

[54] **TEXTILE MEDICAL AYANT UN FIL A FAIBLE DENIER PAR FILAMENT**

[72] TASCAN, MEVLUT, US
[72] WEBER, AMANDA, US
[72] METZGER, ANDREW, US
[71] THE SECANT GROUP, LLC, US
[85] 2021-05-20
[86] 2019-11-27 (PCT/US2019/063655)
[87] (WO2020/113039)
[30] US (62/773,669) 2018-11-30

[21] **3,120,713**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12P 19/34 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS FOR TARGETED NUCLEIC ACID LIBRARY FORMATION**

[54] **METHODES DE FORMATION DE BIBLIOTHEQUE D'ACIDES NUCLEIQUES CIBLEE**

[72] LIN, SHENGRONG, US
[72] ZHAO, GRACE, US
[72] BAO, YUN, US
[72] WANG, HENG, US
[71] AVIDA BIOMED, INC., US
[71] WANG, HENG, US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062507)
[87] (WO2020/106906)
[30] US (62/770,585) 2018-11-21

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[21] **3,120,714**
[13] A1

[51] **Int.Cl. B65D 47/02 (2006.01) B65D 49/12 (2006.01)**

[25] EN

[54] **DUAL-SEAL LINER AND NON-REMOVABLE CLOSURE ASSEMBLY**

[54] **DOUBLURE A DOUBLE JOINT ET ENSEMBLE FERMETURE NON AMOVIBLE**

[72] ANDRULONIS, DAVID, US

[72] SHAH, MUNISH, US

[71] TEKNI-PLEX, INC., US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062539)

[87] (WO2020/112475)

[30] US (16/199,340) 2018-11-26

[21] **3,120,715**
[13] A1

[51] **Int.Cl. C12N 7/01 (2006.01) A61K 35/761 (2015.01) A61K 35/76 (2015.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 14/075 (2006.01) C12N 15/34 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **ADENOVIRUSES AND METHODS FOR USING ADENOVIRUSES**

[54] **ADENOVIRUS ET METHODES D'UTILISATION D'ADENOVIRUS**

[72] BARRY, MICHAEL A., US

[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062547)

[87] (WO2020/106924)

[30] US (62/770,631) 2018-11-21

[21] **3,120,716**
[13] A1

[51] **Int.Cl. A61B 5/05 (2021.01) A61B 5/103 (2006.01) A61B 5/117 (2016.01)**

[25] EN

[54] **METHODS FOR DETERMINING DISEASE RISK COMBINING DOWNSAMPLING OF CLASS-IMBALANCED SETS WITH SURVIVAL ANALYSIS**

[54] **PROCEDES POUR DETERMINER UN RISQUE DE MALADIE COMBINANT UN SOUS-ECHANTILLONNAGE D'ENSEMBLES NON EQUILIBRES DE CLASSE AVEC UNE ANALYSE DE SURVIE**

[72] HAGAR, YOLANDA, US

[72] DATTA, GARGI, US

[72] ALEXANDER, LEIGH, US

[72] HINTERBERG, MICHAEL, US

[71] SOMALOGIC, INC., US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062561)

[87] (WO2020/112478)

[30] US (62/773,028) 2018-11-29

[30] US (62/783,733) 2018-12-21

[21] **3,120,717**
[13] A1

[51] **Int.Cl. A47B 51/00 (2006.01) A47B 46/00 (2006.01) A47B 57/06 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) B65G 1/00 (2006.01) B65G 1/04 (2006.01) B65G 1/06 (2006.01) B65G 1/10 (2006.01) B65G 1/12 (2006.01) B65G 67/02 (2006.01) B66F 9/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND STORAGE UNITS FOR ARTICLE TRANSPORT AND STORAGE**

[54] **SYSTEMES, PROCEDES ET UNITES DE STOCKAGE POUR LE TRANSPORT ET LE STOCKAGE D'ARTICLES**

[72] BIDRAM, FARHANG, CA

[72] POURAZADI, SHAHRAM, CA

[72] ZARRINDERAKHT, MILAD, CA

[71] ADVANCED INTELLIGENT SYSTEMS INC., CA

[85] 2021-05-20

[86] 2019-11-20 (PCT/CA2019/051662)

[87] (WO2020/102900)

[30] US (62/769,591) 2018-11-20

[30] US (62/780,764) 2018-12-17

[30] US (62/786,310) 2018-12-28

[30] US (62/800,158) 2019-02-01

[30] US (62/802,436) 2019-02-07

[21] **3,120,718**
[13] A1

[51] **Int.Cl. C07F 5/02 (2006.01) A61K 31/69 (2006.01) A61P 9/12 (2006.01) A61P 11/06 (2006.01)**

[25] EN

[54] **INHIBITORS OF ARGINASE**

[54] **INHIBITEURS DE L'ARGINASE**

[72] BELMAR, SEBASTIAN, CL

[72] ALFARO, JENNIFER, CL

[72] NUNEZ VASQUEZ, GONZALO ESTEBAN, CL

[72] BERNALES, SEBASTIAN, US

[72] PUJALA, BRAHMAM, US

[72] PANPATIL, DAYANAND, US

[72] KHAN, PASHA, US

[72] CHAKRAVARTY, SARVAJIT, US

[72] URETA DIAZ, GONZALO ANDRES, CL

[71] BLACK BELT TX LTD, GB

[85] 2021-05-20

[86] 2019-11-21 (PCT/EP2019/082158)

[87] (WO2020/104626)

[30] US (62/770,682) 2018-11-21

[21] **3,120,719**
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04W 72/04 (2009.01) H04W 72/12 (2009.01) H04W 88/08 (2009.01)**

[25] EN

[54] **METHOD, APPARATUS AND TERMINAL FOR PROCESSING SCHEDULING REQUEST**

[54] **PROCEDE, APPAREIL ET TERMINAL PERMETTANT DE TRAITER UNE DEMANDE D'ORDONNANCEMENT**

[72] XU, JING, CN

[72] SHI, CONG, CN

[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2021-05-20

[86] 2019-03-29 (PCT/CN2019/080667)

[87] (WO2020/113869)

[30] CN (PCT/CN2018/119219) 2018-12-04

[30] CN (PCT/CN2019/072842) 2019-01-23

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[21] **3,120,720**
[13] A1

[51] **Int.Cl. B09B 3/00 (2006.01) B09B 5/00 (2006.01) B29B 17/02 (2006.01) C08B 16/00 (2006.01) C08J 11/06 (2006.01)**

[25] EN

[54] **CELLULOSE RAW MATERIAL AND METHOD FOR RECYCLING A CELLULOSE RAW MATERIAL FROM BLENDED TEXTILE WASTE**

[54] **MATIERE PREMIERE DE CELLULOSE ET PROCEDE DE RECYCLAGE D'UNE MATIERE PREMIERE DE CELLULOSE A PARTIR DE DECHETS TEXTILES MELANGES**

[72] HERCHL, RICHARD, AT

[72] KLAUS-NIETROST, CHRISTOPH, AT

[72] WEILACH, CHRISTIAN, AT

[71] LENZING AKTIENGESELLSCHAFT, AT

[85] 2021-05-20

[86] 2019-10-24 (PCT/EP2019/079067)

[87] (WO2020/126171)

[30] EP (18215489.8) 2018-12-21

[21] **3,120,721**
[13] A1

[51] **Int.Cl. A61B 17/16 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **CARTILAGE SLICING APPARATUS AND METHODS THEREFOR**

[54] **APPAREIL POUR TRANCHER DU CARTILAGE ET PROCEDES ASSOCIES**

[72] FIALKOV, JEFFREY ALLAN, CA

[72] EASTON, HARRY, CA

[72] TESHIMA, TARA LYNN, CA

[71] SUNNYBROOK RESEARCH INSTITUTE, CA

[85] 2021-05-20

[86] 2019-11-26 (PCT/CA2019/051689)

[87] (WO2020/107106)

[21] **3,120,722**
[13] A1

[51] **Int.Cl. G01C 11/08 (2006.01) G01C 11/34 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR PLANNING SAMPLE POINTS FOR SURVEYING AND MAPPING, CONTROL TERMINAL AND STORAGE MEDIUM**

[54] **PROCEDE ET APPAREIL DE PLANIFICATION POUR EXAMINER ET CARTOGRAPHIER DES POINTS D'ECHANTILLONNAGE, TERMINAL DE COMMANDE ET SUPPORT DE STOCKAGE**

[72] LIU, PENG, CN

[72] JIN, XIAOHUI, CN

[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN

[85] 2021-05-20

[86] 2018-11-21 (PCT/CN2018/116658)

[87] (WO2020/103021)

[21] **3,120,723**
[13] A1

[51] **Int.Cl. H04L 12/16 (2006.01)**

[25] EN

[54] **SYSTEM WITH REAL-TIME DETECTION AND RESOLUTION OF CONFLICTS FOR SHARED RESOURCES**

[54] **SYSTEME AVEC DETECTION ET RESOLUTION EN TEMPS REEL DE CONFLITS POUR DES RESSOURCES PARTAGEES**

[72] GE, WENHAO, US

[71] CITRIX SYSTEMS, INC., CN

[85] 2021-05-20

[86] 2018-12-29 (PCT/CN2018/125444)

[87] (WO2020/133383)

[21] **3,120,724**
[13] A1

[51] **Int.Cl. A47D 7/01 (2006.01) A47D 7/02 (2006.01)**

[25] EN

[54] **BABY BED**

[54] **LIT POUR BEBE**

[72] GUO, ZHENGWEN, CN

[71] CHINA WONDERLAND NURSERYGOODS CO., LTD., CN

[85] 2021-05-20

[86] 2019-09-17 (PCT/CN2019/106186)

[87] (WO2020/103546)

[30] CN (201821926295.5) 2018-11-21

[21] **3,120,725**
[13] A1

[51] **Int.Cl. G05D 1/10 (2006.01)**

[25] EN

[54] **SURVEYING AND MAPPING SYSTEM, SURVEYING AND MAPPING METHOD AND DEVICE, APPARATUS AND MEDIUM**

[54] **SYSTEME D'ARPENTAGE ET DE CARTOGRAPHIE, PROCEDE ET APPAREIL D'ARPENTAGE ET DE CARTOGRAPHIE, DISPOSITIF ET SUPPORT**

[72] LIU, PENG, CN

[72] JIN, XIAOHUI, CN

[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN

[85] 2021-05-20

[86] 2018-11-21 (PCT/CN2018/116659)

[87] (WO2020/103022)

[21] **3,120,726**
[13] A1

[51] **Int.Cl. C07C 233/05 (2006.01) A61K 31/16 (2006.01) A61P 25/00 (2006.01) A61P 31/00 (2006.01)**

[25] EN

[54] **RIP1 INHIBITORS**

[54] **INHIBITEURS DE RIP1**

[72] SU, YANING, CN

[72] ZHANG, ZHIYUAN, CN

[72] YANG, YI, CN

[72] WANG, GUOZHENG, CN

[72] LIU, WENDONG, CN

[72] MA, YONGFEN, CN

[72] REN, YAN, CN

[71] SIRONAX LTD, KY

[85] 2021-05-20

[86] 2019-11-20 (PCT/CN2019/119676)

[87] (WO2020/103859)

[30] CN (PCT/CN2018/116555) 2018-11-20

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[21] **3,120,727**
[13] A1

[51] **Int.Cl. G01C 11/00 (2006.01)**
[25] EN
[54] **SURVEYING AND MAPPING SYSTEM, SURVEYING AND MAPPING METHOD AND DEVICE, APPARATUS AND MEDIUM**
[54] **SYSTEME, PROCEDE, APPAREIL, DISPOSITIF ET SUPPORT D'ARPENTAGE ET DE CARTOGRAPHIE**
[72] LIU, PENG, CN
[72] JIN, XIAOHUI, CN
[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN
[85] 2021-05-20
[86] 2018-11-21 (PCT/CN2018/116660)
[87] (WO2020/103023)

[21] **3,120,728**
[13] A1

[51] **Int.Cl. G05D 1/02 (2020.01) A47L 11/00 (2006.01) B25J 5/00 (2006.01) B25J 9/18 (2006.01) B25J 19/02 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ROBOTIC SURFACE COVERAGE**
[54] **PROCEDES ET SYSTEMES POUR COUVERTURE ROBOTIQUE D'UNE SURFACE**
[72] EBRAHIMI AFROUZI, ALI, US
[72] FATH, LUKAS, CA
[71] EBRAHIMI AFROUZI, ALI, US
[85] 2021-05-17
[86] 2019-11-21 (PCT/US2019/062707)
[87] (WO2020/107007)
[30] US (16/198,393) 2018-11-21

[21] **3,120,729**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 9/10 (2006.01) A61P 11/00 (2006.01) A61P 19/02 (2006.01) A61P 35/02 (2006.01) A61P 37/00 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTIBODIES SPECIFICALLY RECOGNIZING GRANULOCYTE-MACROPHAGE COLONY STIMULATING FACTOR RECEPTOR ALPHA AND USES THEREOF**
[54] **ANTICORPS RECONNAISSANT DE MANIERE SPECIFIQUE LE RECEPTEUR ALPHA DU FACTEUR DE STIMULATION DES COLONIES DE GRANULOCYTES-MACROPHAGES ET UTILISATIONS ASSOCIEES**
[72] ZHU, PINGXIA, CN
[72] WU, RAN, CN
[72] ZHANG, QINGSHUANG, CN
[72] HUANG, QUN, CN
[71] STADSON (BEIJING) BIOPHARMACEUTICALS CO., LTD., CN
[85] 2021-05-20
[86] 2019-11-25 (PCT/CN2019/120545)
[87] (WO2020/108423)
[30] CN (PCT/CN2018/117581) 2018-11-27

[21] **3,120,730**
[13] A1

[51] **Int.Cl. A01D 34/00 (2006.01) A01D 42/08 (2006.01) A01D 69/00 (2006.01)**
[25] EN
[54] **WALK-BEHIND SELF-PROPELLED MACHINE**
[54] **MACHINE A DEPLACEMENT AUTONOME A COMMANDE MANUELLE**
[72] ZHU, RONGGEN, CN
[72] CHEN, LIANG, CN
[71] NANJING CHERVON INDUSTRY CO., LTD., CN
[85] 2021-05-20
[86] 2019-11-20 (PCT/CN2019/119703)
[87] (WO2020/103865)
[30] CN (201811385342.4) 2018-11-20

[21] **3,120,731**
[13] A1

[51] **Int.Cl. A47F 5/08 (2006.01) A47B 5/04 (2006.01) A47B 46/00 (2006.01) A61G 1/06 (2006.01) A61G 3/02 (2006.01)**
[25] EN
[54] **ARRANGEMENT FOR MOUNTING A PLANE ON A WALL**
[54] **AGENCEMENT POUR MONTER UN PLAN SUR UN MUR**
[72] VUORENOJA, ARI-MATTI, FI
[72] HIETARANTA, MARKO, FI
[72] HIETARANTA, MARKUS, FI
[71] FRESTEMS OY, FI
[85] 2021-05-20
[86] 2019-11-21 (PCT/FI2019/050833)
[87] (WO2020/104729)
[30] FI (20185993) 2018-11-23

[21] **3,120,732**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01)**
[25] EN
[54] **OPERATION CONTROL SYSTEM, OPERATION CONTROL METHOD AND DEVICE AND MEDIUM**
[54] **SYSTEME DE COMMANDE DE TACHE, PROCEDE DE COMMANDE DE TACHE, APPAREIL, DISPOSITIF ET SUPPORT**
[72] LIU, PENG, CN
[72] JIN, XIAOHUI, CN
[71] GUANGZHOU XAIRCRAFT TECHNOLOGY CO., LTD., CN
[85] 2021-05-20
[86] 2018-11-21 (PCT/CN2018/116661)
[87] (WO2020/103024)

[21] **3,120,733**
[13] A1

[51] **Int.Cl. E04D 13/076 (2006.01) E04D 13/064 (2006.01)**
[25] EN
[54] **RAIN GUTTER ASSEMBLY**
[54] **ENSEMBLE GOUTTIERE DE PLUIE**
[72] VAN SCHALKWYK, JOHANNES CORNELIUS, ZA
[72] WHITE, TERENCE MAURICE, ZA
[71] VAN SCHALKWYK, JOHANNES CORNELIUS, ZA
[85] 2021-05-20
[86] 2019-09-12 (PCT/IB2019/057705)
[87] (WO2020/109877)
[30] ZA (2018/07998) 2018-11-27

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[21] **3,120,734**
[13] A1

[51] **Int.Cl. A01K 1/01 (2006.01) A01K 5/00 (2006.01) A01K 29/00 (2006.01) A01K 31/04 (2006.01)**

[25] EN

[54] **VEHICLE, SYSTEM AND METHOD FOR PERFORMING AN ANIMAL-RELATED ACTION**

[54] **VEHICULE, SYSTEME ET PROCEDE DE REALISATION D'UNE ACTION ASSOCIEE A UN ANIMAL**

[72] VAN MEURS, MATTHEW, NL
[72] 'T MANNETJE, LEON, NL
[71] LELY PATENT N.V., NL
[85] 2021-05-20
[86] 2019-12-03 (PCT/NL2019/050802)
[87] (WO2020/130805)
[30] NL (2022240) 2018-12-18

[21] **3,120,735**
[13] A1

[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24F 40/40 (2020.01) A61M 11/04 (2006.01)**

[25] EN

[54] **OVERWRAP MATERIAL CONTAINING AEROSOL FORMER FOR AEROSOL SOURCE MEMBER**

[54] **MATERIAU DE SUREMBALLAGE CONTENANT UN GENERATEUR D'AEROSOL POUR ELEMENT DE SOURCE D'AEROSOL**

[72] SEBASTIAN, ANDRIES D., US
[72] CONNER, BILLY T., US
[72] HEJAZI, VAHID, US
[72] MUA, JOHN-PAUL, US
[72] MONSALUD, LUIS, US
[72] SEARS, STEPHEN B., US
[72] COLE, S. KEITH, US
[71] R.J. REYNOLDS TOBACCO COMPANY, US
[85] 2021-05-20
[86] 2019-11-19 (PCT/IB2019/059948)
[87] (WO2020/104951)
[30] US (16/197,077) 2018-11-20

[21] **3,120,736**
[13] A1

[51] **Int.Cl. A41D 19/015 (2006.01) A63B 71/14 (2006.01)**

[25] EN

[54] **GLOVE**

[54] **GANT**

[72] HALLDIN, PETER, SE
[71] MIPS AB, SE
[85] 2021-05-20
[86] 2019-11-20 (PCT/EP2019/081978)
[87] (WO2020/104550)
[30] GB (1819112.2) 2018-11-23
[30] GB (1910118.7) 2019-07-15

[21] **3,120,737**
[13] A1

[51] **Int.Cl. C09J 197/00 (2006.01) C07G 1/00 (2011.01) C08L 97/02 (2006.01) C09J 161/06 (2006.01) C09J 197/02 (2006.01) C08H 7/00 (2011.01) B27N 3/00 (2006.01) C08L 61/06 (2006.01) C08L 97/00 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING A SOLUTION OF LIGNIN IN AN AQUEOUS MEDIUM**

[54] **PROCEDE DE PREPARATION D'UNE SOLUTION DE LIGNINE DANS UN MILIEU AQUEUX**

[72] NASLI BAKIR, BEN, SE
[72] ZAFAR, ASHAR, SE
[72] EKSTROM, JESPER, SE
[71] STORA ENSO OYJ, FI
[85] 2021-05-20
[86] 2019-11-26 (PCT/IB2019/060150)
[87] (WO2020/109983)
[30] SE (1851470-3) 2018-11-27

[21] **3,120,738**
[13] A1

[51] **Int.Cl. A61H 33/00 (2006.01)**

[25] EN

[54] **ASSISTANCE METHOD USING ASSISTANCE DEVICE**

[54] **PROCEDE D'ASSISTANCE UTILISANT UN DISPOSITIF D'ASSISTANCE**

[72] NOMURA, HIDEAKI, JP
[72] NAKANE, NOBUYUKI, JP
[72] NAKANE, KUNIYASU, JP
[72] SHIMIZU, SATOSHI, JP
[71] FUJI CORPORATION, JP
[85] 2021-05-20
[86] 2018-12-06 (PCT/JP2018/044896)
[87] (WO2020/115857)

[21] **3,120,739**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4745 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **HETEROCYCLIC COMPOUNDS AND MEDICAL USE THEREOF**

[54] **COMPOSES HETEROCYCLIQUES ET LEUR UTILISATION MEDICALE**

[72] BARRAJA, PAOLA, IT
[72] MUSANTE, ILARIA, IT
[72] GALIETTA, LUIS JUAN VICENTE, IT
[72] SPANO', VIRGINIA, IT
[71] FONDAZIONE TELETHON, IT
[71] UNIVERSITA' DEGLI STUDI DI PALERMO, IT
[85] 2021-05-20
[86] 2019-11-20 (PCT/EP2019/081988)
[87] (WO2020/104558)
[30] IT (102018000010466) 2018-11-20

[21] **3,120,740**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 48/00 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) A61K 35/12 (2015.01)**

[25] EN

[54] **ANTI-IGF-I RECEPTOR HUMANIZED ANTIBODY**

[54] **ANTICORPS HUMANISE ANTI-RECEPTEUR DE L'IGF-I**

[72] TANOKURA, AKIRA, JP
[72] KATO, HIROTSUGU, JP
[72] EGUCHI, HIROSHI, JP
[72] TAKAGI, KENICHIRO, JP
[72] YAMAMURA, SATOSHI, JP
[72] NAMIKI, NAOKO, JP
[72] ISHIKAWA, DAISUKE, JP
[72] HIGUCHI, HIROFUMI, JP
[72] TAKEO, TOMOYO, JP
[72] OHORI, MASAYO, JP
[71] TEIJIN PHARMA LIMITED, JP
[85] 2021-05-20
[86] 2019-12-02 (PCT/JP2019/047050)
[87] (WO2020/116398)
[30] JP (2018-226669) 2018-12-03

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[21] **3,120,742**
[13] A1

[51] **Int.Cl. B44C 1/175 (2006.01) C09D 11/037 (2014.01) B44C 1/24 (2006.01) C09B 67/38 (2006.01)**

[25] EN

[54] **DYE SUBLIMATION INK COMPOSITION AND PROCESSES FOR USE WITH STAMP PADS**

[54] **COMPOSITION D'ENCRE DE SUBLIMATION DE COLORANTS ET PROCEDES DESTINES A ETRE UTILISES AVEC DES TAMPONS ENCREURS**

[72] CUMMINGS, MARK W., US
[72] PETROVA, JANA, US
[72] SMITH, MANDY, US
[72] SMITH, PAULA S., US
[72] TREMITIERE, TONYA N., US
[72] COOPER, JOHN N., US
[71] ESPRIX TECHNOLOGIES, LP., US
[85] 2021-05-20
[86] 2019-11-26 (PCT/US2019/063215)
[87] (WO2020/112747)
[30] US (62/917,159) 2018-11-26
[30] US (62/920,613) 2019-05-09

[21] **3,120,743**
[13] A1

[51] **Int.Cl. G06F 13/38 (2006.01) H04W 40/00 (2009.01) G06F 13/40 (2006.01) G06F 15/00 (2006.01) H04Q 11/00 (2006.01)**

[25] EN

[54] **LOGICAL ROUTER COMPRISING DISAGGREGATED NETWORK ELEMENTS**

[54] **ROUTEUR LOGIQUE COMPRENANT DES ELEMENTS DE RESEAU DESAGREGES**

[72] PATEL, KEYUR, US
[72] PAI, NALINAKSH, US
[72] BUSH, RANDALL, US
[72] RAGUKUMAR, VIKRAM, US
[72] SHANKER, ASHUTOSH, US
[72] RAJARAMAN, KALYANI, US
[72] AUSTEIN, ROBERT, US
[72] ARIES, EBBEN, US
[72] KUMAR, LALIT, US
[72] PITCHAI, SRIDHAR, US
[72] GURUSAMY, RAJKUMAR, US
[71] ARRCUS INC., US
[85] 2021-05-20
[86] 2019-11-26 (PCT/US2019/063313)
[87] (WO2020/112817)
[30] US (62/771,407) 2018-11-26

[21] **3,120,744**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/18 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **ORAL DISPERSIBLE VACCINE COMPRISING VIROSOMES**

[54] **VACCIN ORODISPERSIBLE COMPRENANT DES VIROSOMES**

[72] WONG, YIK TENG, GB
[72] SMARDON, CHARLI, GB
[72] SHIRKHANI, KHOJASTEH, GB
[72] AMACKER, MARIO, CH
[72] FLEURY, SYLVAIN, CH
[72] STEGMANN, ANTONIUS JOHANNES HENDRIKUS, NL
[71] MYMETICS CORPORATION, CH
[71] CATALENT U.K. SWINDON ZYDIS LIMITED, GB
[85] 2021-05-20
[86] 2019-11-28 (PCT/EP2019/082940)
[87] (WO2020/109485)
[30] US (62/772,823) 2018-11-29

[21] **3,120,745**
[13] A1

[51] **Int.Cl. G06Q 50/10 (2012.01)**

[25] EN

[54] **INFORMATION PROVIDING APPARATUS AND INFORMATION PROVIDING PROGRAM**

[54] **APPAREIL DE FOURNITURE D'INFORMATIONS ET PROGRAMME DE FOURNITURE D'INFORMATIONS**

[72] OGAWA, SHOJI, JP
[72] SHIGETOMO, HIROKI, JP
[72] SARUTA, MAKOTO, JP
[71] LIXIL CORPORATION, JP
[85] 2021-05-20
[86] 2019-08-27 (PCT/JP2019/033529)
[87] (WO2020/105241)
[30] JP (2018-217891) 2018-11-21

[21] **3,120,746**
[13] A1

[51] **Int.Cl. H04L 12/46 (2006.01)**

[25] EN

[54] **LOGICAL ROUTER COMPRISING DISAGGREGATED NETWORK ELEMENTS**

[54] **ROUTEUR LOGIQUE COMPRENANT DES ELEMENTS DE RESEAU DESAGREGES**

[72] PATEL, KEYUR, US
[72] PAI, NALINAKSH, US
[72] BUSH, RANDALL, US
[72] RAGUKUMAR, VIKRAM, US
[72] SHANKER, ASHUTOSH, US
[72] RAJARAMAN, KALYANI, US
[72] AUSTEIN, ROBERT, US
[72] ARIES, EBBEN, US
[72] KUMAR, LALIT, US
[72] PITCHAI, SRIDHAR, US
[72] GURUSAMY, RAJKUMAR, US
[71] ARRCUS INC., US
[85] 2021-05-20
[86] 2019-11-26 (PCT/US2019/063331)
[87] (WO2020/112831)
[30] US (62/771,407) 2018-11-26

[21] **3,120,747**
[13] A1

[51] **Int.Cl. B26D 7/08 (2006.01) B26D 7/00 (2006.01) H01M 10/04 (2006.01)**

[25] FR

[54] **CUTTING SOFT METALS WITH THE AID OF ULTRASOUND**

[54] **COUPE DE METAUX MOUS PAR ASSISTANCE ULTRASONORE**

[72] AMOUZEGAR, KAMYAB, CA
[72] BOUCHARD, PATRICK, CA
[72] TURCOTTE, NANCY, CA
[72] PERRON, FREDERIC, CA
[72] LEBLANC, DOMINIC, CA
[72] ZAGHIB, KARIM, CA
[71] HYDRO-QUEBEC, CA
[85] 2021-05-20
[86] 2019-12-11 (PCT/CA2019/051782)
[87] (WO2020/118431)
[30] CA (3,027,620) 2018-12-13

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[21] **3,120,748**
[13] A1

[51] **Int.Cl. C25B 9/23 (2021.01) C25B 3/25 (2021.01) C25B 3/26 (2021.01) C25B 1/04 (2021.01) C25B 13/08 (2006.01) C25B 15/08 (2006.01)**

[25] EN
[54] **ELECTROLYZER AND METHOD OF USE**
[54] **ELECTROLYSEUR ET PROCEDE D'UTILISATION**

[72] CAVE, ETOSHA R., US
[72] MA, SICHAO, US
[72] ZENG, QUN, US
[72] HUNEGNAW, SARA, US
[72] KUHL, KENDRA P., US
[72] LEONARD, GEORGE, US
[72] MISHRA, ASHLEY D., US
[72] KASHI, AJAY R., US
[71] OPUS 12 INCORPORATED, US
[85] 2021-05-20
[86] 2019-11-26 (PCT/US2019/063471)
[87] (WO2020/112919)
[30] US (62/772,460) 2018-11-28
[30] US (62/939,960) 2019-11-25

[21] **3,120,749**
[13] A1

[51] **Int.Cl. A61M 5/158 (2006.01) A61M 25/06 (2006.01)**

[25] EN
[54] **INDWELLING NEEDLE ASSEMBLY**
[54] **ENSEMBLE AIGUILLE A DEMEURE**

[72] KUDO, TATSUYA, JP
[72] SHIBUYA, MAKOTO, JP
[72] UCHIMURA, TOMOHIRO, JP
[72] YOKOTA, HIROKI, JP
[71] NIPRO CORPORATION, JP
[85] 2021-05-20
[86] 2019-11-26 (PCT/JP2019/046247)
[87] (WO2020/111080)
[30] JP (2018-223112) 2018-11-29
[30] JP (2019-038991) 2019-03-04

[21] **3,120,750**
[13] A1

[51] **Int.Cl. H04N 19/109 (2014.01) H04N 19/147 (2014.01) H04N 19/176 (2014.01) H04N 19/436 (2014.01)**

[25] EN
[54] **IMAGE PROCESSING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT D'IMAGE**

[72] HISHINUMA, SINSUKE, JP
[72] KONDO, KENJI, JP
[71] SONY GROUP CORPORATION, JP
[85] 2021-05-20
[86] 2019-12-16 (PCT/JP2019/049090)
[87] (WO2020/137643)
[30] JP (2018-248147) 2018-12-28

[21] **3,120,751**
[13] A1

[51] **Int.Cl. C07D 217/02 (2006.01) A61K 31/472 (2006.01) A61P 9/12 (2006.01) A61P 27/06 (2006.01)**

[25] EN
[54] **NEW FORM OF ISOQUINOLINE SULFONAMIDE**
[54] **NOUVELLE FORME D'ISOQUINOLINESULFONAMIDE**

[72] HIDAKA, HIROYOSHI, JP
[72] SUMI, KENGO, JP
[72] IZUHARA, TAKASHI, JP
[71] D. WESTERN THERAPEUTICS INSTITUTE, INC., JP
[85] 2021-05-20
[86] 2019-12-16 (PCT/JP2019/049099)
[87] (WO2020/129876)

[21] **3,120,752**
[13] A1

[51] **Int.Cl. F16L 15/04 (2006.01)**

[25] EN
[54] **THREADED CONNECTION FOR STEEL PIPE**
[54] **RACCORD FILETE POUR TUYAU EN ACIER**

[72] INOSE, KEITA, JP
[72] NAKANO, HIKARI, JP
[72] SUGINO, MASAOKI, JP
[71] NIPPON STEEL CORPORATION, JP
[71] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2021-05-20
[86] 2019-12-20 (PCT/JP2019/050190)
[87] (WO2020/137917)
[30] JP (2018-240644) 2018-12-25

[21] **3,120,754**
[13] A1

[51] **Int.Cl. G10L 21/0208 (2013.01) G10L 25/51 (2013.01) A01K 29/00 (2006.01)**

[25] EN
[54] **METHOD FOR MONITORING A LIVESTOCK FACILITY AND/OR LIVESTOCK ANIMALS IN A LIVESTOCK FACILITY USING IMPROVED SOUND PROCESSING TECHNIQUES**
[54] **PROCEDE PERMETTANT DE SURVEILLER UNE INSTALLATION D'ELEVAGE ET/OU DES ANIMAUX D'ELEVAGE DANS UNE INSTALLATION D'ELEVAGE A L'AIDE DE TECHNIQUES DE TRAITEMENT SONORE AMELIOREES**

[72] BERCKMANS, DRIES, BE
[72] BUYENS, WIM, BE
[71] SOUNDTALKS NV, BE
[85] 2021-05-20
[86] 2019-12-18 (PCT/EP2019/085897)
[87] (WO2020/127449)
[30] BE (2018/5899) 2018-12-18

[21] **3,120,756**
[13] A1

[51] **Int.Cl. C09B 23/08 (2006.01) A61K 49/00 (2006.01) C07C 381/00 (2006.01) C07D 221/18 (2006.01) G01N 33/58 (2006.01)**

[25] EN
[54] **SULFOXONIUM YLIDE DERIVATIVES AS PROBES FOR CYSTEINE PROTEASE**
[54] **DERIVES D'YLURE DE SULFOXONIUM EN TANT QUE SONDRES POUR LA CYSTEINE PROTEASE**

[72] EDGINGTON-MITCHELL, LAURA, AU
[72] MOUNTFORD, SIMON, AU
[72] ANDERSON, BETHANY M., AU
[72] SZABO, MONIKA, AU
[72] AURELIO, LUIGI, AU
[72] THOMPSON, PHILIP, AU
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2021-05-20
[86] 2019-12-20 (PCT/JP2019/050228)
[87] (WO2020/130152)
[30] AU (2018904872) 2018-12-20

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[21] **3,120,757**
[13] A1

[51] **Int.Cl. B24B 7/18 (2006.01) B24B 7/22 (2006.01)**
[25] EN
[54] **METHOD IN DRY-SHAKE COATING OF A CONCRETE FLOOR**
[54] **PROCEDE DE REVETEMENT PAR SAUPOUDRAGE A SEC D'UN PLANCHER EN BETON**
[72] AHONEN, MIKA, FI
[71] CONCRRIA OY, FI
[85] 2021-05-20
[86] 2019-09-03 (PCT/FI2019/050622)
[87] (WO2020/109650)
[30] FI (20186027) 2018-11-30

[21] **3,120,758**
[13] A1

[51] **Int.Cl. C12Q 1/37 (2006.01) G01N 33/573 (2006.01)**
[25] EN
[54] **NOVEL ACTIVITY-BASED PROBES FOR NEUTROPHIL ELASTASE AND THEIR USE**
[54] **NOUVELLES SONDÉS BASEES SUR L'ACTIVITE POUR L'ELASTASE DES NEUTROPHILES ET LEUR UTILISATION**
[72] EDGINGTON-MITCHELL, LAURA, AU
[72] ANDERSON, BETHANY M., AU
[72] POOLE, DANIEL P., AU
[72] AURELIO, LUIGI, AU
[72] KASPERKIEWICZ, PAULINA, PL
[72] DRAG, MARCIN, PL
[72] BUNNETT, NIGEL, AU
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2021-05-20
[86] 2019-12-20 (PCT/JP2019/050223)
[87] (WO2020/130151)
[30] AU (2018904873) 2018-12-20

[21] **3,120,759**
[13] A1

[51] **Int.Cl. F42D 1/04 (2006.01)**
[25] EN
[54] **DETONATOR CONSTRUCTION**
[54] **CONSTRUCTION DE DETONATEUR**
[72] BIRKIN, CHRISTOPHER MALCOLM, ZA
[72] KRUGER, MICHEL JACOBUS, ZA
[72] MICHNA, RICHARD JOSEPH, ZA
[72] KOEKEMOER, ANDRE LOUIS, ZA
[72] JURRAS III, MARK IVAN, ZA
[71] DETNET SOUTH AFRICA (PTY) LTD, ZA
[85] 2021-05-20
[86] 2020-01-24 (PCT/ZA2020/050006)
[87] (WO2020/160572)
[30] ZA (2019/00554) 2019-01-28

[21] **3,120,760**
[13] A1

[51] **Int.Cl. B01D 61/36 (2006.01) B01D 63/02 (2006.01) B01D 63/10 (2006.01) B01D 63/14 (2006.01)**
[25] EN
[54] **MEMBRANE DISTILLATION MODULE AND MEMBRANE DISTILLATION APPARATUS**
[54] **MODULE DE DISTILLATION A MEMBRANE ET APPAREIL DE DISTILLATION A MEMBRANE**
[72] SUGA, YUKI, JP
[72] ARAI, HIROYUKI, JP
[72] HASHIMOTO, TOMOTAKA, JP
[71] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2021-05-20
[86] 2019-11-27 (PCT/JP2019/046457)
[87] (WO2020/111158)
[30] JP (2018-221125) 2018-11-27

[21] **3,120,761**
[13] A1

[51] **Int.Cl. C05B 7/00 (2006.01) C05C 1/00 (2006.01) C05C 5/00 (2006.01) C05C 7/00 (2006.01) C05D 1/00 (2006.01) C05D 3/00 (2006.01) C05D 5/00 (2006.01) C05G 1/00 (2006.01)**
[25] EN
[54] **NUTRIENT COMPOSITIONS**
[54] **COMPOSITIONS DE NUTRIMENTS**
[72] ORSI, JENNIFER, US
[72] PRICKETT, ABIGAIL, US
[72] CRAIG, JOSEPH, US
[72] BIRRENKOTT, BRIAN, US
[71] OMS INVESTMENTS, INC., US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062415)
[87] (WO2020/106841)
[30] US (62/770,216) 2018-11-21

[21] **3,120,762**
[13] A1

[51] **Int.Cl. G07D 11/00 (2019.01) G06Q 20/32 (2012.01) G07D 5/02 (2006.01) G07D 7/16 (2016.01) G07D 9/00 (2006.01)**
[25] EN
[54] **A HANDHELD MOBILE COMMUNICATION DEVICE CONNECTED DONATION RECEIVING APPARATUS**
[54] **APPAREIL PORTATIF DE RECEPTION DE DONS CONNECTE A UN DISPOSITIF DE COMMUNICATION MOBILE**
[72] DELLAS, JAMES, AU
[71] DELLAS, JAMES, AU
[85] 2021-05-21
[86] 2019-11-25 (PCT/AU2019/051290)
[87] (WO2020/102859)
[30] AU (2018904467) 2018-11-23
[30] AU (2019902972) 2019-08-16

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[21] 3,120,763 [13] A1	[21] 3,120,765 [13] A1	[21] 3,120,766 [13] A1
[51] Int.Cl. A61K 39/35 (2006.01) A23L 3/26 (2006.01)	[51] Int.Cl. A47G 19/00 (2006.01) A61J 9/00 (2006.01) A61J 11/00 (2006.01) B65D 47/06 (2006.01) B65D 47/40 (2006.01) B65D 53/00 (2006.01)	[51] Int.Cl. C07D 311/58 (2006.01) A01N 31/16 (2006.01) A01N 35/04 (2006.01) A01N 37/18 (2006.01) A01N 41/02 (2006.01) A01N 43/00 (2006.01) A01N 43/16 (2006.01) A01N 61/00 (2006.01) A01P 1/00 (2006.01) A61K 31/04 (2006.01) A61K 31/047 (2006.01) A61K 31/10 (2006.01) A61K 31/121 (2006.01) A61K 31/166 (2006.01) A61K 31/18 (2006.01) A61K 31/353 (2006.01) A61K 31/404 (2006.01) A61K 31/4155 (2006.01) A61K 31/4164 (2006.01) A61K 31/4178 (2006.01) A61K 31/4184 (2006.01) A61K 31/421 (2006.01) A61K 31/422 (2006.01) A61K 31/426 (2006.01) A61K 31/427 (2006.01) A61K 31/437 (2006.01) A61K 31/4409 (2006.01) A61K 31/4433 (2006.01) A61K 31/495 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61K 31/5375 (2006.01) C07C 39/08 (2006.01) C07C 39/24 (2006.01) C07C 49/245 (2006.01) C07C 233/64 (2006.01) C07C 235/18 (2006.01) C07C 235/46 (2006.01) C07C 311/29 (2006.01) C07C 317/22 (2006.01) C07D 213/30 (2006.01) C07D 213/50 (2006.01) C07D 239/26 (2006.01) C07D 241/12 (2006.01) C07D 263/32 (2006.01) C07D 277/24 (2006.01) C07D 295/192 (2006.01) C07D 311/80 (2006.01) C07D 405/04 (2006.01) C07D 413/04 (2006.01) C07D 417/04 (2006.01) C07D 471/04 (2006.01)
[25] EN	[25] EN	[25] EN
[54] METHODS FOR MAKING MIXED ALLERGEN COMPOSITIONS	[54] DRINKING CUP	[54] SYNTHETIC ANTIBACTERIAL COMPOUNDS AND USES THEREOF
[54] PROCEDES DE PRODUCTION DE COMPOSITIONS D'ALLERGENES MIXTES	[54] GOBELET	[54] COMPOSES ANTIBACTERIENS SYNTHETIQUES ET LEURS UTILISATIONS
[72] WEIHE, OLIVIA M., US	[72] JUNG, MAYER CHARLES WILLIAM, AU	[72] BROWN, ERIC, CA
[72] CORNYN, CHRISTOPHER, US	[72] TJERNBERG, LISA EDLUND, AU	[72] ELHALFAWY, OMAR M., CA
[72] DOMBKOWSKI, ASHLEY, US	[72] AMATOURY, SYLVAIN JACQUES, AU	[72] FARHA, MAYA, CA
[72] MCCLINTOCK, DANA, US	[72] HERMANS, TY GERARD, AU	[72] MAGOLAN, JAKOB, CA
[71] ALLADAPT IMMUNOTHERAPEUTICS, INC., US	[72] CHANDRASEKARAN, NAVIN CHANDRAKANTH, AU	[72] GALE, ROBERT, CA
[85] 2021-05-20	[71] B.BOX FOR KIDS DEVELOPMENTS PTY LTD, AU	[71] MCMASTER UNIVERSITY, CA
[86] 2019-11-27 (PCT/US2019/063686)	[85] 2021-05-21	[85] 2021-05-21
[87] (WO2020/113060)	[86] 2019-11-26 (PCT/AU2019/051293)	[86] 2019-11-20 (PCT/CA2019/051663)
[30] US (62/773,643) 2018-11-30	[87] (WO2020/107064)	[87] (WO2020/102901)
	[30] AU (2018904571) 2018-11-30	[30] US (62/770,398) 2018-11-21
[21] 3,120,764 [13] A1		
[51] Int.Cl. F42C 19/12 (2006.01) F42C 15/40 (2006.01) F42D 1/04 (2006.01)		
[25] EN		
[54] CONTROL CIRCUIT FOR A DETONATOR		
[54] CIRCUIT DE COMMANDE POUR UN DETONATEUR		
[72] KRUGER, MICHEL JACOBUS, ZA		
[72] MAURISSENS, DANIEL AUGUSTE, ZA		
[72] LABUSCHAGNE, ALBERTUS ABRAHAM, ZA		
[72] KOEKEMOER, ANDRE LOUIS, ZA		
[71] DETNET SOUTH AFRICA (PTY) LTD, ZA		
[85] 2021-05-20		
[86] 2020-01-27 (PCT/ZA2020/050011)		
[87] (WO2020/160577)		
[30] ZA (2019/00559) 2019-01-28		

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[21] **3,120,767**
[13] A1

[51] **Int.Cl. F42D 1/05 (2006.01)**
[25] EN
[54] **LIGHT SENSITIVE ARRANGEMENT FOR A DETONATOR**
[54] **AGENCEMENT PHOTOSENSIBLE POUR DETONATEUR**
[72] KRUGER, MICHEL JACOBUS, ZA
[72] MAURISSENS, DANIEL AUGUSTE, ZA
[72] LABUSCHAGNE, ALBERTUS ABRAHAM, ZA
[72] KOEKEMOER, ANDRE LOUIS, ZA
[71] DETNET SOUTH AFRICA (PTY) LTD, ZA
[85] 2021-05-20
[86] 2020-01-27 (PCT/ZA2020/050013)
[87] (WO2020/160579)
[30] ZA (2019/00556) 2019-01-28

[21] **3,120,768**
[13] A1

[51] **Int.Cl. H01F 29/14 (2006.01) H02J 3/18 (2006.01) H02P 13/12 (2006.01)**
[25] EN
[54] **MAGNETICALLY CONTROLLABLE CHOKE COIL HAVING CENTRAL CONNECTION**
[54] **BOBINE D'ARRET A REGLAGE MAGNETIQUE, A BORNE CENTRALE**
[72] BUNIN, ANATOLIY, DE
[72] KOCZULA, CARSTEN, DE
[72] MANTHE, THOMAS, DE
[72] KUSTERMANN, MATTHIAS, DE
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2021-05-21
[86] 2018-11-26 (PCT/EP2018/082577)
[87] (WO2020/108732)

[21] **3,120,769**
[13] A1

[51] **Int.Cl. A47K 10/32 (2006.01) A47K 5/06 (2006.01)**
[25] EN
[54] **DISPENSER MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE DE DISTRIBUTEUR**
[72] TRAMONTINA, PAUL F., US
[71] KIMBERLY-CLARK WORLDWIDE, INC., US
[85] 2021-05-20
[86] 2019-11-30 (PCT/US2019/063894)
[87] (WO2020/113196)
[30] US (62/773,461) 2018-11-30

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[13] A1

[51] **Int.Cl. G01N 21/84 (2006.01) A61B 5/00 (2006.01) G02B 21/36 (2006.01)**
[25] EN
[54] **VOLUMETRIC MULTI-MODAL MICROSCOPY METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES DE MICROSCOPIE MULTIMODALE VOLUMETRIQUE**
[72] ZENG, HAISHAN, CA
[72] WU, ZHENGUO, CA
[72] LUI, HARVEY, CA
[72] TIAN, YUNXIAN, CA
[71] PROVINCIAL HEALTH SERVICES AUTHORITY, CA
[85] 2021-05-21
[86] 2019-11-22 (PCT/CA2019/051679)
[87] (WO2020/102912)
[30] US (62/770,781) 2018-11-22

[21] **3,120,771**
[13] A1

[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **ENDOSCOPIC TISSUE APPROXIMATION SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES D'APPROXIMATION DE TISSU ENDOSCOPIQUE**
[72] MITELBERG, VLADIMIR, US
[72] NEUDECK, THOMAS, US
[72] GILKEY, RYAN, US
[72] AHMAD, NASER, US
[72] GANT, ANDREW, US
[72] JONES, DONALD K., US
[71] APOLLO ENDOSURGERY US, INC., US
[85] 2021-05-20
[86] 2019-12-04 (PCT/US2019/064441)
[87] (WO2020/117920)
[30] US (62/775,542) 2018-12-05
[30] US (62/928,516) 2019-10-31
[30] US (16/701,276) 2019-12-03

[21] **3,120,772**
[13] A1

[51] **Int.Cl. E21B 25/18 (2006.01) E21B 41/00 (2006.01) E21B 49/02 (2006.01)**
[25] EN
[54] **UNDERWATER DRILLING DEVICE AND METHOD FOR PROCURING DRILL CORES OF A BED OF A BODY OF WATER**
[54] **DISPOSITIF DE FORAGE SOUS-MARIN ET PROCEDE POUR OBTENIR DES CAROTTES DE FORAGE DU FOND D'UNE MASSE D'EAU**
[72] WIENER, JOHANNES, DE
[72] WEIXLER, LEONHARD, DE
[72] GREINDL, TOBIAS, DE
[72] FINKENZELLER, STEFAN MICHAEL, DE
[71] BAUER MASCHINEN GMBH, DE
[85] 2021-05-21
[86] 2018-12-20 (PCT/EP2018/086116)
[87] (WO2020/125986)

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[13] A1

[51] **Int.Cl. G21C 15/00 (2006.01) G21C 15/18 (2006.01)**
[25] EN
[54] **COOLING SYSTEM FOR NUCLEAR REACTOR**
[54] **SYSTEME DE REFROIDISSEMENT POUR REACTEUR NUCLEAIRE**
[72] LEBLANC, DAVID, CA
[72] RODENBURG, ANTHONIUS C., CA
[72] HANDBURY, JOHN, CA
[71] TERRESTRIAL ENERGY INC., CA
[85] 2021-05-21
[86] 2019-11-26 (PCT/CA2019/051692)
[87] (WO2020/107109)
[30] US (62/771,912) 2018-11-27

[21] **3,120,774**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/444 (2006.01) A61K 31/5025 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUND**
[54] **COMPOSE HETEROCYCLIQUE**
[72] HIRAYAMA, TAKAHARU, JP
[72] ITO, YOSHITERU, JP
[72] BANNO, HIROSHI, JP
[72] TOKUHARA, HIDEKAZU, JP
[72] TANAKA, TOSHIO, JP
[72] ARIKAWA, YASUYOSHI, JP
[72] NII, NORIYUKI, JP
[72] KAWAKITA, YOUICHI, JP
[72] IMAMURA, SHINICHI, JP
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2021-05-20
[86] 2019-11-27 (PCT/JP2019/046261)
[87] (WO2020/111087)
[30] JP (2018-222530) 2018-11-28

[21] **3,120,775**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/496 (2006.01) A61K 47/10 (2017.01)**
[25] EN
[54] **PROCESS FOR PRODUCING PHARMACEUTICAL DOSAGE FORMS CONTAINING TASK-1 AND TASK-3 CHANNEL INHIBITORS, AND THE USE OF SAME IN BREATHING DISORDER THERAPY**
[54] **PROCEDE DE FABRICATION DE FORMES PHARMACEUTIQUES CONTENANT DES INHIBITEURS DES CANAUX TASK-1 ET TASK-3 ET LEUR UTILISATION POUR LE TRAITEMENT DE TROUBLES RESPIRATOIRES**
[72] STEIN, MICHELLE, DE
[72] BECK-BROICHSITTER, MORITZ, DE
[72] ARNTZ, ANDREA, DE
[72] NICOLAI, JANINE, DE
[71] BAYER AKTIENGESELLSCHAFT, DE
[71] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[85] 2021-05-21
[86] 2019-11-20 (PCT/EP2019/081950)
[87] (WO2020/109109)
[30] EP (18208601.7) 2018-11-27

[21] **3,120,776**
[13] A1

[51] **Int.Cl. G01N 27/327 (2006.01) G05F 5/04 (2006.01) H04B 7/24 (2006.01)**
[25] EN
[54] **REDUCTION OF IN VIVO ANALYTE SIGNAL DEGRADATION USING MULTIPLE METALS**
[54] **REDUCTION DE LA DEGRADATION IN VIVO D'UN SIGNAL D'ANALYTE A L'AIDE DE MULTIPLES METAUX**
[72] MORTELLARO, MARK, US
[72] VELVADAPU, VENKATA, US
[72] KIM, TINA HYUNJUNG, US
[71] SENSEONICS, INCORPORATED, US
[85] 2021-05-20
[86] 2019-12-05 (PCT/US2019/064640)
[87] (WO2020/118027)
[30] US (62/775,634) 2018-12-05

[21] **3,120,777**
[13] A1

[51] **Int.Cl. H05B 6/10 (2006.01) H05B 6/36 (2006.01) A24F 47/00 (2020.01)**
[25] EN
[54] **INDUCTION HEATING ASSEMBLY FOR AN AEROSOL GENERATING DEVICE AND A METHOD OF MANUFACTURING THE SAME**
[54] **ENSEMBLE DE CHAUFFAGE PAR INDUCTION POUR UN DISPOSITIF DE GENERATION D'AEROSOL ET SON PROCEDE DE FABRICATION**
[72] GILL, MARK, GB
[71] JT INTERNATIONAL SA, CH
[85] 2021-05-21
[86] 2019-11-21 (PCT/EP2019/082038)
[87] (WO2020/109123)

[21] **3,120,778**
[13] A1

[51] **Int.Cl. E01F 13/12 (2006.01) E01F 13/06 (2006.01)**
[25] FR
[54] **ACCESS-DENIAL DEVICE**
[54] **DISPOSITIF D'ANTI-FRANCHISSEMENT**
[72] FEGHOUL, ABDLA, FR
[71] FEGHOUL, ABDLA, FR
[85] 2021-05-21
[86] 2019-11-21 (PCT/EP2019/082143)
[87] (WO2020/104617)
[30] FR (1871677) 2018-11-21

[21] **3,120,779**
[13] A1

[51] **Int.Cl. H04W 36/14 (2009.01)**
[25] EN
[54] **DATA PROCESSING METHOD, DEVICE AND STORAGE MEDIUM**
[54] **PROCEDE DE TRAITEMENT DE DONNEES, DISPOSITIF ET SUPPORT D'INFORMATIONS**
[72] TANG, HAI, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-05-21
[86] 2018-11-26 (PCT/CN2018/117538)
[87] (WO2020/107185)

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[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) B01L 9/00 (2006.01) B01L 9/06 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **RACK FOR SAMPLE TUBES SUPPORT POUR TUBES D'ECHANTILLONS**
[72] LOHAN, DANIEL JUSTIN, US
[72] DAVIET, ALEXANDRE, US
[72] RAO, ROHINI, US
[72] LEITCH, SHARON, US
[72] LENTZ, AMMON DAVID, US
[72] LACHANCE, STEPHEN, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2021-05-20
[86] 2019-12-10 (PCT/US2019/065363)
[87] (WO2020/123437)
[30] US (62/779,926) 2018-12-14
[30] US (62/892,263) 2019-08-27

[21] **3,120,781**
[13] A1

[51] **Int.Cl. F16B 35/04 (2006.01)**
[25] EN
[54] **SHORTENED FASTENER WITH LOCALLY CONTROLLED THREAD HEIGHT**
[54] **FIXATION RACCOURCIE AVEC HAUTEUR DE FILETAGE CONTROLEE LOCALEMENT**
[72] GARVER, MICHAEL A., US
[71] MATHREAD INC., US
[85] 2021-05-20
[86] 2019-12-13 (PCT/US2019/066147)
[87] (WO2020/146089)
[30] US (16/245,856) 2019-01-11

[21] **3,120,782**
[13] A1

[51] **Int.Cl. E01F 13/00 (2006.01) H04W 88/00 (2009.01) H04B 7/00 (2006.01)**
[25] FR
[54] **BOLLARD HAVING AN ACCESS-DENIAL AND A CONNECTED FUNCTION**
[54] **BLOC A FONCTION D'ANTI-FRANCHISSEMENT ET CONNECTE**
[72] FEGHOUL, ABDLA, FR
[71] FEGHOUL, ABDLA, FR
[85] 2021-05-21
[86] 2019-11-21 (PCT/EP2019/082148)
[87] (WO2020/104620)
[30] FR (1871679) 2018-11-21

[21] **3,120,783**
[13] A1

[51] **Int.Cl. C08J 7/06 (2006.01)**
[25] EN
[54] **COATED ETFE FILM, METHOD FOR PRODUCING SAME, AND USE OF SAME**
[54] **FILM EN ETFE REVETU, PROCEDE DE PRODUCTION ET D'UTILISATION DUDIT FILM**
[72] WILKEN, RALPH, DE
[72] OTT, MATTHIAS, DE
[72] VISSING, KLAUS-DIETER, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EINGETRAGENER VEREIN, DE
[85] 2021-05-21
[86] 2019-11-25 (PCT/EP2019/082357)
[87] (WO2020/104699)
[30] DE (10 2018 129 644.4) 2018-11-23

[21] **3,120,784**
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) G06F 3/00 (2006.01) G09B 21/00 (2006.01) G09B 21/02 (2006.01)**
[25] EN
[54] **ELECTRO MAGNETIC REFRESHABLE BRAILLE READER**
[54] **LECTEUR DE BRAILLE RAFRAICHISSABLE ELECTRO-MAGNETIQUE**
[72] MOON, ALEXANDER, US
[72] BAKER, THOMAS, US
[72] SCHLEPPENBACH, DAVID A., US
[71] TACTILE ENGINEERING, LLC, US
[85] 2021-05-20
[86] 2019-11-20 (PCT/US2019/062433)
[87] (WO2020/106855)
[30] US (62/769,680) 2018-11-20

[21] **3,120,785**
[13] A1

[51] **Int.Cl. C04B 28/02 (2006.01)**
[25] FR
[54] **METHOD FOR ANALYSING THE QUANTITY OF CLAY IN A SAND**
[54] **METHODE D'ANALYSE DE LA QUANTITE D'ARGILE DANS UN SABLE**
[72] DERLY, CHRISTOPHE, FR
[72] COLAS, ANTOINE, FR
[71] CHRYSO, FR
[85] 2021-05-21
[86] 2019-11-25 (PCT/EP2019/082427)
[87] (WO2020/109231)
[30] FR (18 71917) 2018-11-27

[21] **3,120,786**
[13] A1

[51] **Int.Cl. G06Q 10/02 (2012.01)**
[25] EN
[54] **CHECKINS FOR SERVICES FROM A MESSENGER CHATBOT**
[54] **CONTROLES DESTINES A DES SERVICES A PARTIR D'UN AGENT CONVERSATIONNEL DE MESSAGERIE**
[72] KAPADIA, CHAITANYA, US
[71] FREMONT SOFTWARE, LLC, US
[85] 2021-05-20
[86] 2019-12-20 (PCT/US2019/068003)
[87] (WO2020/132538)
[30] US (62/784,048) 2018-12-21
[30] US (16/420,700) 2019-05-23

[21] **3,120,787**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/73 (2006.01) A61K 8/97 (2017.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **COSMETIC MASK COMPRISING A PLANT PAPER AND HUMECTANT**
[54] **MASQUE COSMETIQUE COMPRENANT UN PAPIER VEGETAL ET UN HUMECTANT**
[72] ROUSSEAU, CEDRIC, FR
[71] SWM LUXEMBOURG, LU
[85] 2021-05-21
[86] 2019-11-26 (PCT/EP2019/082598)
[87] (WO2020/109311)
[30] FR (18 71869) 2018-11-26

[21] **3,120,788**
[13] A1

[51] **Int.Cl. G06F 15/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DEVELOPMENT OF WEB PRODUCTS**
[54] **SYSTEMES ET PROCEDES DE DEVELOPPEMENT DE PRODUITS WEB**
[72] LIU, XIN, US
[72] OU, YURAN, US
[72] XIAO, TIANYU, US
[71] CITRIX SYSTEMS, INC., CN
[85] 2021-05-21
[86] 2018-12-27 (PCT/CN2018/124417)
[87] (WO2020/133083)

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[51] Int.Cl. H04N 5/225 (2006.01) [25] EN [54] CAMERA HOLE COVER PLATE, TREATMENT METHOD OF CAMERA HOLE PLATE, AND MOBILE TERMINAL [54] PLAQUE DE RECOUVREMENT DE TROU DE CAMERA, PROCEDE DE TRAITEMENT DE PLAQUE DE RECOUVREMENT DE TROU DE CAMERA ET TERMINAL MOBILE [72] LIAO, LIANGFEI, CN [71] VIVO MOBILE COMMUNICATION CO., LTD., CN [85] 2021-05-21 [86] 2019-11-25 (PCT/CN2019/120557) [87] (WO2020/108425) [30] CN (201811427132.7) 2018-11-27	[51] Int.Cl. C07D 471/04 (2006.01) A61K 35/00 (2006.01) A61P 35/00 (2006.01) [25] EN [54] PYRIMIDINE AND FIVE-MEMBERED NITROGEN HETEROCYCLE DERIVATIVE, PREPARATION METHOD THEREFOR, AND MEDICAL USES THEREOF [54] PYRIMIDINE ET DERIVE HETEROCYCLE PENTAGONAL DE NITROGENE, LEUR PROCEDE DE PREPARATION ET APPLICATIONS MEDICALES [72] ZOU, HAO, CN [72] LI, ZHENGTAO, CN [72] WANG, YUANHAO, CN [72] YU, JIAN, CN [72] ZHU, WEI, CN [71] TUOJIE BIOTECH (SHANGHAI) CO., LTD., CN [85] 2021-05-21 [86] 2019-11-29 (PCT/CN2019/121844) [87] (WO2020/108590) [30] CN (201811452514.5) 2018-11-30 [30] CN (201910577816.3) 2019-06-28	[51] Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) [25] EN [54] ANTI-CD40 ANTIBODY, ANTIGEN BINDING FRAGMENT AND PHARMACEUTICAL USE THEREOF [54] ANTICORPS ANTI-CD40, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI ET UTILISATION PHARMACEUTIQUE ASSOCIEE [72] LIAO, CHENG, CN [72] JIANG, JIAHUA, CN [72] XU, ZUPENG, CN [72] ZHANG, LIANSHAN, CN [72] LIN, YUAN, CN [72] LIN, KAN, CN [72] QIAN, XUEMING, CN [72] TENG, FEI, CN [71] JIANGSU HENGRUI MEDICINE CO., LTD., CN [71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN [85] 2021-05-21 [86] 2019-11-29 (PCT/CN2019/121941) [87] (WO2020/108611) [30] CN (201811448228.1) 2018-11-30
[21] 3,120,790 [13] A1		[21] 3,120,795 [13] A1
[51] Int.Cl. A01C 5/06 (2006.01) A01C 7/00 (2006.01) A01C 7/06 (2006.01) A01C 23/02 (2006.01) [25] EN [54] FLUID JET AGRICULTURAL DEVICES, SYSTEMS AND METHODS [54] DISPOSITIFS, SYSTEMES ET PROCEDES AGRICOLES DE JET DE LIQUIDE [72] MARTEL, JEFF, US [72] POPPER, MATTHEW, US [72] VANDERGON, ARION, US [72] VANDERGON, CEDAR, US [72] BUNKER, DAVID, US [72] WILSON, KYLE, US [72] QUILLIA, GARRETT, US [71] SUSTERRE TECHNOLOGIES INC., CA [85] 2021-05-20 [86] 2020-01-03 (PCT/US2020/012171) [87] (WO2020/142678) [30] US (62/787,993) 2019-01-03		[51] Int.Cl. H04N 19/52 (2014.01) H04N 19/593 (2014.01) [25] EN [54] AN ENCODER, A DECODER AND CORRESPONDING METHODS USING IBC MERGE LIST [54] CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS UTILISANT UNE LISTE DE FUSION IBC [72] GAO, HAN, DE [72] ESENLIK, SEMIH, DE [72] WANG, BIAO, DE [72] KOTRA, ANAND MEHER, DE [72] CHEN, JIANLE, US [71] HUAWEI TECHNOLOGIES CO., LTD., CN [85] 2021-05-21 [86] 2020-02-10 (PCT/CN2020/074575) [87] (WO2020/177505) [30] US (62/813,690) 2019-03-04 [30] US (62/815,311) 2019-03-07

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[21] **3,120,796**
[13] A1

[51] **Int.Cl. B23K 20/12 (2006.01) B33Y 10/00 (2015.01) B29C 64/10 (2017.01) B33Y 40/20 (2020.01) B23K 20/22 (2006.01) B23K 20/24 (2006.01) B29C 35/08 (2006.01) B29C 41/08 (2006.01) B29C 70/64 (2006.01)**

[25] EN

[54] **HYBRID SOLID-STATE ADDITIVE AND SUBTRACTIVE MANUFACTURING PROCESSES, MATERIALS USED AND PARTS FABRICATED WITH THE HYBRID PROCESSES**

[54] **PROCESSUS HYBRIDES DE FABRICATION SOUSTRACTIFS ET/OU ADDITIFS A L'ETAT SOLIDE, MATERIAUX UTILISES ET PIECES FABRIQUEES A L'AIDE DES PROCESSUS HYBRIDES**

[72] COX, CHASE, US

[72] GARGUILO, CHRISTOPHER, US

[72] HARDWICK, NANCI, US

[71] MELD MANUFACTURING CORPORATION, US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062604)

[87] (WO2020/106952)

[30] US (62/770,551) 2018-11-21

[21] **3,120,797**
[13] A1

[51] **Int.Cl. G06F 7/00 (2006.01) B33Y 70/00 (2020.01)**

[25] EN

[54] **USING OCCLUDING FLUIDS TO AUGMENT ADDITIVE MANUFACTURING PROCESSES**

[54] **UTILISATION DE FLUIDES OCCLUSIFS POUR AUGMENTER DES PROCEDES DE FABRICATION ADDITIVE**

[72] LUND, BENJAMIN R., US

[72] LUND, CALEB, US

[72] HAN, XUN, US

[71] ADAPTIVE 3D TECHNOLOGIES, LLC, US

[85] 2021-05-20

[86] 2019-11-21 (PCT/US2019/062598)

[87] (WO2020/106949)

[30] US (62/770,403) 2018-11-21

[21] **3,120,799**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) A01K 67/027 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **NUCLEASE-MEDIATED REPEAT EXPANSION**

[54] **EXPANSION DE REPETITION A MEDIATION PAR NUCLEASE**

[72] KAJIMURA, DAISUKE, US

[72] SHARMA-KANNING, AARTI, US

[72] DUBOSE, BRITTANY, US

[72] DROGUETT, GUSTAVO, US

[72] SIAO, CHIA-JEN, US

[72] KUNO, JUNKO, US

[72] FRENDEWEY, DAVID, US

[72] ZAMBROWICZ, BRIAN, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2021-05-20

[86] 2019-12-13 (PCT/US2019/066317)

[87] (WO2020/131632)

[30] US (62/782,461) 2018-12-20

[30] US (62/829,995) 2019-04-05

[21] **3,120,800**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **TWIN IMMUNE CELL ENGAGER RECRUTEUR DE CELLULES IMMUNITAIRES JUMELLES**

[72] PREYER, MARTIN, US

[72] COLTHART, ALLISON, US

[72] WEINSTEIN, PAMELA, US

[72] WIENCEK, PATRICK, US

[72] GEIGER, EMMA, US

[72] MEIER, WERNER, US

[71] REVITOPE LIMITED, GB

[85] 2021-05-20

[86] 2019-12-16 (PCT/US2019/066542)

[87] (WO2020/131697)

[30] US (62/780,770) 2018-12-17

[21] **3,120,801**
[13] A1

[51] **Int.Cl. G06Q 10/02 (2012.01)**

[25] EN

[54] **VOICE CHECK-IN PLATFORM WITH SERVERLESS COMPUTING ARCHITECTURE**

[54] **PLATEFORME DE VERIFICATION VOCALE AVEC ARCHITECTURE DE CALCUL SANS SERVEUR**

[72] KAPADIA, CHAITANYA, US

[71] FREMONT SOFTWARE, LLC, US

[85] 2021-05-20

[86] 2019-12-20 (PCT/US2019/067982)

[87] (WO2020/132524)

[30] US (62/784,048) 2018-12-21

[30] US (16/408,109) 2019-05-09

[21] **3,120,803**
[13] A1

[51] **Int.Cl. A23C 11/00 (2006.01) A23L 11/60 (2021.01) A23C 11/02 (2006.01) A23C 11/10 (2021.01) A23L 2/38 (2021.01) A23L 2/52 (2006.01)**

[25] EN

[54] **NON-DAIRY ANALOGS AND BEVERAGES WITH DEAMIDATED PLANT PROTEINS AND PROCESSES FOR MAKING SUCH PRODUCTS**

[54] **ANALOGUES NON LAITIERS ET BOISSONS CONTENANT DES PROTEINES VEGETALES DESAMIDES ET PROCEDES DE PREPARATION DE TELS PRODUITS**

[72] STILES, AMANDA, US

[72] HOMYAK, CELIA, US

[71] RIPPLE FOODS, PBC, US

[85] 2021-05-20

[86] 2020-01-17 (PCT/US2020/014045)

[87] (WO2020/150583)

[30] US (62/794,043) 2019-01-18

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[21] **3,120,805**
[13] A1

[51] **Int.Cl. G06F 13/00 (2006.01) H04W 24/00 (2009.01) H04W 36/38 (2009.01) H04B 7/185 (2006.01)**

[25] EN

[54] **DATA PACKET FORWARDING IN AN NGSO SATELLITE NETWORK**

[54] **TRANSFERT DE PAQUETS DE DONNEES DANS UN RESEAU SATELLITAIRE NGSO**

[72] KANTAWALA, ANSHUL D., US

[72] GOKHALE, DILIP S., US

[72] BHASKAR, PIYA S., US

[71] LOCKHEED MARTIN CORPORATION, US

[85] 2021-05-20

[86] 2020-02-07 (PCT/US2020/017368)

[87] (WO2020/163827)

[30] US (62/802,647) 2019-02-07

[30] US (16/783,051) 2020-02-05

[21] **3,120,807**
[13] A1

[51] **Int.Cl. E01C 5/00 (2006.01)**

[25] EN

[54] **PAVING STONE HAVING AN INFILTRATION REGION AND PAVING PRODUCED USING SAME**

[54] **PAVE POURVU D'UNE ZONE DE PERCOLATION ET PAVAGE FABRIQUE AU MOYEN DE CELLE-CI**

[72] SCHRODER, DETLEF, DE

[71] SCHRODER, DETLEF, DE

[85] 2021-05-21

[86] 2019-11-16 (PCT/DE2019/000300)

[87] (WO2020/103966)

[30] DE (10 2018 009 201.2) 2018-11-21

[30] DE (10 2018 010 067.8) 2018-12-20

[21] **3,120,808**
[13] A1

[51] **Int.Cl. F16K 15/14 (2006.01) F16K 15/18 (2006.01) F16K 21/00 (2006.01)**

[25] EN

[54] **GAS-FILLED RESILIENT BODY AND USE THEREOF**

[54] **CORPS ELASTIQUE REMPLI DE GAZ ET SON UTILISATION**

[72] NERVO, PAULO, NL

[72] VAN MELICK, DENNIS, NL

[72] VAN WIJK, DOMINICUS JAN, NL

[71] DISPENSING TECHNOLOGIES B.V., NL

[85] 2021-05-21

[86] 2019-11-26 (PCT/EP2019/082641)

[87] (WO2020/109340)

[30] NL (2022072) 2018-11-26

[21] **3,120,809**
[13] A1

[51] **Int.Cl. E21C 35/24 (2006.01) E21F 13/00 (2006.01) G01C 21/20 (2006.01) G01C 21/34 (2006.01) G05D 1/02 (2020.01)**

[25] EN

[54] **MODEL GENERATION FOR ROUTE PLANNING OR POSITIONING OF MOBILE OBJECT IN UNDERGROUND WORKSITE**

[54] **GENERATION DE MODELE POUR LA PLANIFICATION DE CHEMIN OU LE POSITIONNEMENT D'UN OBJET MOBILE DANS UN CHANTIER SOUTERRAIN**

[72] VON ESSEN, TOMI, FI

[72] PUURA, JUSSI, FI

[71] SANDVIK MINING AND CONSTRUCTION OY, FI

[85] 2021-05-21

[86] 2019-11-28 (PCT/EP2019/082899)

[87] (WO2020/109462)

[30] EP (18209493.8) 2018-11-30

[21] **3,120,810**
[13] A1

[51] **Int.Cl. G01C 21/12 (2006.01) G01C 21/20 (2006.01)**

[25] EN

[54] **POSITIONING OF MOBILE OBJECT IN UNDERGROUND WORKSITE**

[54] **POSITIONNEMENT D'OBJET MOBILE DANS UN CHANTIER SOUTERRAIN**

[72] VAINIO, TUUKKA, FI

[72] COLLIN, JUSSI, FI

[72] SIIVONEN, LAURI, FI

[72] PUURA, JUSSI, FI

[72] VON ESSEN, TOMI, FI

[71] SANDVIK MINING AND CONSTRUCTION OY, FI

[85] 2021-05-21

[86] 2019-11-28 (PCT/EP2019/082921)

[87] (WO2020/109473)

[30] EP (18209502.6) 2018-11-30

[21] **3,120,812**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A23L 5/00 (2016.01) A23L 33/135 (2016.01) A23L 33/16 (2016.01)**

[25] EN

[54] **MINERAL ELEMENTS COMPRISING HAFNIA ALVEI COMPOSITIONS**

[54] **ELEMENTS MINERAUX COMPRENANT DES COMPOSITIONS D'HAFNIA ALVEI**

[72] PICOLO, CLEMENTINE, FR

[72] LAMBERT, GREGORY, FR

[71] TARGEDYS, FR

[85] 2021-05-21

[86] 2019-11-28 (PCT/EP2019/082951)

[87] (WO2020/109492)

[30] EP (18208985.4) 2018-11-28

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[21] **3,120,813**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61K 9/00 (2006.01) A61P 39/02 (2006.01) C07D 417/14 (2006.01)**

[25] FR

[54] **NEW DIHYDROQUINAZOLINONES EXHIBITING PROTECTIVE ACTIVITY AGAINST INTRACELLULAR-ACTING TOXINS, INTRACELLULAR VIRUSES AND BACTERIA**

[54] **NOUVELLES DIHYDROQUINAZOLINONES AYANT UNE ACTIVITE PROTECTRICE VIS-A-VIS DE TOXINES AU MODE D'ACTION INTRACELLULAIRE, DE VIRUS ET DE BACTERIES INTRACELLULAIRES**

[72] CINTRAT, JEAN-CHRISTOPHE, FR

[72] BARBIER, JULIEN, FR

[72] GILLET, DANIEL, FR

[72] PRUVOST, ALAIN, FR

[72] COUHERT, AUDREY, FR

[72] TEP SHI, LIVIA, FR

[72] VINCK, ROBIN, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2021-05-21

[86] 2019-11-28 (PCT/EP2019/082976)

[87] (WO2020/109510)

[30] FR (1872016) 2018-11-28

[21] **3,120,815**
[13] A1

[51] **Int.Cl. E03F 1/00 (2006.01) B61D 35/00 (2006.01)**

[25] EN

[54] **MOBILE SANITARY EQUIPMENT AND CONTROL UNIT FOR MOBILE SANITARY EQUIPMENT**

[54] **UNITE DE COMMANDE D'UN DISPOSITIF SANITAIRE MOBILE ET DISPOSITIF SANITAIRE MOBILE EQUIPE DE CELLE-CI**

[72] MEIER, HENDRIK, DE

[71] EVAC GMBH, DE

[85] 2021-05-21

[86] 2019-11-29 (PCT/EP2019/083087)

[87] (WO2020/109551)

[30] DE (20 2018 106 834.2) 2018-11-30

[21] **3,120,816**
[13] A1

[51] **Int.Cl. C08G 63/123 (2006.01) C08G 63/42 (2006.01) C09D 167/00 (2006.01)**

[25] EN

[54] **RMA CROSSLINKABLE POLYMER**

[54] **POLYMERE RETICULABLE PAR RMA**

[72] NOORDOVER, BART ADRIANUS JOHANNES, NL

[72] LOOIJ, NATASJA, NL

[72] PIJPER, BRENDA, NL

[72] KALIS, JURGEN, NL

[72] KOEKEN, RONALD, NL

[71] ALLNEX NETHERLANDS B.V., NL

[85] 2021-05-21

[86] 2019-12-04 (PCT/EP2019/083708)

[87] (WO2020/115153)

[30] EP (18210172.5) 2018-12-04

[21] **3,120,817**
[13] A1

[51] **Int.Cl. C12M 3/06 (2006.01) C12M 1/12 (2006.01)**

[25] EN

[54] **MICROPHYSIOLOGICAL CHOROID MODEL**

[54] **MODELE DE CHOROIDE MICROPHYSIOLOGIQUE**

[72] PROBST, CHRISTOPHER, DE

[72] CIPRIANO, MADALENA, DE

[72] LOSKILL, PETER, DE

[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2021-05-21

[86] 2019-12-10 (PCT/EP2019/084406)

[87] (WO2020/120466)

[30] DE (10 2018 221 838.2) 2018-12-14

[21] **3,120,818**
[13] A1

[51] **Int.Cl. C01G 41/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING AMMONIUM METATUNGSTATE**

[54] **PROCEDE DE PREPARATION DE METATUNGSTATE D'AMMONIUM**

[72] MEESE-MARKTSCHIEFFEL, JULIA, DE

[72] OLBRICH, ARMIN, DE

[72] WEILAND, ANJA, DE

[72] VAN DER PUETTEN, FRANK, DE

[72] SAEUBERLICH, TINO, DE

[72] SCHROEER, TOBIAS, DE

[72] MUELLER, JUERGEN, DE

[71] H.C. STARCK TUNGSTEN GMBH, DE

[85] 2021-05-21

[86] 2019-12-18 (PCT/EP2019/086077)

[87] (WO2020/127571)

[30] EP (18213826.3) 2018-12-19

[21] **3,120,820**
[13] A1

[51] **Int.Cl. C08F 212/08 (2006.01) C08C 19/00 (2006.01) C08L 21/00 (2006.01)**

[25] EN

[54] **FUNCTIONALIZED RUBBERS**

[54] **CAOUTCHOUCS FONCTIONNALISES**

[72] CORONA GALVAN, SERGIO, ES

[72] PEREZ ROMERO, PEDRO JOSE, ES

[72] DIAZ REQUEJO, MARIA DEL MAR, ES

[72] BELTRAN MARTIN, ALVARO, ES

[71] DYNASOL ELASTOMEROS, S.A.U., ES

[85] 2021-05-21

[86] 2019-12-26 (PCT/EP2019/087046)

[87] (WO2020/136223)

[30] EP (18383003.3) 2018-12-28

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[21] **3,120,821**
[13] A1
[51] **Int.Cl. A63B 71/02 (2006.01) A63B 5/11 (2006.01) A63B 21/02 (2006.01) A63B 21/055 (2006.01)**
[25] EN
[54] **TRAMPOLINE**
[54] **TRAMPOLINE**
[72] WOODMAN, DAVID, GB
[72] LEUNG, WAI KI, CN
[72] MAZOYER, JOSEPH, FR
[72] BAJARD, PHILIPPE, FR
[71] PLUM PRODUCTS HOLDINGS PTY. LTD., AU
[85] 2021-05-21
[86] 2019-11-26 (PCT/GB2019/000164)
[87] (WO2020/109747)
[30] GB (1819216.1) 2018-11-26
[30] GB (1916787.3) 2019-11-18

[21] **3,120,822**
[13] A1
[51] **Int.Cl. H01F 6/00 (2006.01)**
[25] EN
[54] **RAPID DUMP OF PARTIALLY INSULATED SUPERCONDUCTING MAGNET**
[54] **DECHARGE RAPIDE D'AIMANT SUPRACONDUCTEUR PARTIELLEMENT ISOLE**
[72] SLADE, ROBERT, GB
[72] VAN NUGTEREN, BAS, GB
[71] TOKAMAK ENERGY LTD, GB
[85] 2021-05-21
[86] 2019-11-21 (PCT/GB2019/053297)
[87] (WO2020/104807)
[30] GB (1819036.3) 2018-11-22
[30] GB (1905168.9) 2019-04-11

[21] **3,120,824**
[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01)**
[25] EN
[54] **NOVEL MONOFOCAL-TYPE INTRAOCULAR LENS FOR EXTENDED MACULAR VISION IN PATIENTS WITH MACULAR DEGENERATION**
[54] **NOUVELLE LENTILLE INTRAOCULAIRE DE TYPE MONOFOCAL POUR UNE VISION MACULAIRE ETENDUE CHEZ DES PATIENTS ATTEINTS DE DEGENERESCENCE MACULAIRE**
[72] QURESHI, MUHAMMAD ALI, GB
[72] ARTAL, PABLO, ES
[72] ROBBIE, SCOTT, GB
[71] SYNEOS HEALTH INTERNATIONAL LIMITED, GB
[85] 2021-05-21
[86] 2019-11-21 (PCT/IB2019/001255)
[87] (WO2020/104852)
[30] US (62/770,999) 2018-11-23

[21] **3,120,826**
[13] A1
[51] **Int.Cl. G06F 9/451 (2018.01) G06F 9/54 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR MANAGING GENERATION AND RENDERING OF USER INTERFACES ON CLIENT DEVICES**
[54] **TECHNIQUES DESTINEES A GERER LA GENERATION ET LE RENDU D'INTERFACES UTILISATEUR SUR DES DISPOSITIFS CLIENTS**
[72] LI, HONGLIANG, CH
[72] DELPUCH, ALAIN, CH
[71] NAGRAVISION S.A., CH
[85] 2021-05-21
[86] 2019-11-21 (PCT/IB2019/060046)
[87] (WO2020/104999)
[30] US (62/770,973) 2018-11-23

[21] **3,120,828**
[13] A1
[51] **Int.Cl. H04N 19/86 (2014.01)**
[25] EN
[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS OF DEBLOCKING FILTER ADAPTATION**
[54] **ENCODEUR, DECODEUR ET PROCEDES D'ADAPTATION DE FILTRE DE DEGROUPEMENT CORRESPONDANTS**
[72] WANG, BIAO, DE
[72] KOTRA, ANAND MEHER, DE
[72] ESENLIK, SEMIH, DE
[72] CHEN, JIANLE, US
[72] GAO, HAN, DE
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-05-21
[86] 2020-01-16 (PCT/CN2020/072442)
[87] (WO2020/147782)
[30] US (62/793,840) 2019-01-17

[21] **3,120,832**
[13] A1
[51] **Int.Cl. A61M 25/00 (2006.01) F16L 11/08 (2006.01)**
[25] EN
[54] **ENDOSCOPIC SYSTEM FOR ENERGY DELIVERY**
[54] **SYSTEME ENDOSCOPIQUE D'ADMINISTRATION D'ENERGIE**
[72] THOM, MARK, US
[72] THIEL, MATTHEW, US
[72] MINGIONE, LOUIE, US
[71] NEUWAVE MEDICAL, INC., US
[85] 2021-05-21
[86] 2019-11-26 (PCT/IB2019/060186)
[87] (WO2020/109999)
[30] US (62/771,825) 2018-11-27

[21] **3,120,834**
[13] A1
[51] **Int.Cl. G06F 16/909 (2019.01) H04N 21/258 (2011.01) G06F 13/00 (2006.01)**
[25] EN
[54] **SERVER APPARATUS, CONTENT SPECIFYING METHOD, AND PROGRAM**
[54] **DISPOSITIF DE SERVEUR, PROCEDE DE SPECIFICATION DE CONTENU ET PROGRAMME**
[72] IWADE, TAKAYOSHI, JP
[71] IWADE, TAKAYOSHI, JP
[85] 2021-05-21
[86] 2019-11-19 (PCT/JP2019/045235)
[87] (WO2020/110826)
[30] JP (2018-220802) 2018-11-27

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[21] **3,120,838**
[13] A1

[51] **Int.Cl. G06Q 10/02 (2012.01) G06Q 50/00 (2012.01)**
[25] EN
[54] **DEMAND GENERATION PLATFORM**
[54] **PLATE-FORME DE GENERATION DE DEMANDE**
[72] KAPADIA, CHAITANYA, US
[71] FREMONT SOFTWARE, LLC, US
[85] 2021-05-20
[86] 2019-12-20 (PCT/US2019/067934)
[87] (WO2020/132492)
[30] US (62/784,048) 2018-12-21
[30] US (16/377,939) 2019-04-08

[21] **3,120,839**
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61L 31/14 (2006.01)**
[25] EN
[54] **ENDOSCOPE VISUAL FIELD-SECURING VISCOELASTIC COMPOSITION**
[54] **COMPOSITION VISCOELASTIQUE DE PROTECTION DE CHAMP VISUEL D'ENDOSCOPE**
[72] YANO, TOMONORI, JP
[72] OHHATA, ATSUSHI, JP
[72] HIRAKI, YUJI, JP
[71] JICHI MEDICAL UNIVERSITY, JP
[71] OTSUKA PHARMACEUTICAL FACTORY, INC., JP
[85] 2021-05-21
[86] 2019-11-20 (PCT/JP2019/045384)
[87] (WO2020/105668)
[30] JP (2018-218960) 2018-11-22

[21] **3,120,842**
[13] A1

[51] **Int.Cl. A61K 31/4365 (2006.01) A61K 31/427 (2006.01) A61K 31/713 (2006.01) A61P 1/16 (2006.01) A61P 13/12 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS FOR DIAGNOSING AND/OR TREATING ACUTE OR CHRONIC LIVER, KIDNEY OR LUNG DISEASE**
[54] **PROCEDES DE DIAGNOSTIC ET/OU DE TRAITEMENT D'UNE MALADIE HEPATIQUE, RENALE OU PULMONAIRE AIGUE OU CHRONIQUE**
[72] SIMON, JORGE, ES
[72] MARTINEZ CHANTAR, MARIA LUZ, ES
[72] MARTINEZ DE LA CRUZ, ALFONSO, ES
[71] ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS-CIC BIOGUNE, ES
[85] 2021-05-21
[86] 2019-11-26 (PCT/EP2019/082606)
[87] (WO2020/109316)
[30] EP (18382853.2) 2018-11-26

[21] **3,120,843**
[13] A1

[51] **Int.Cl. H05B 3/10 (2006.01) H05B 3/86 (2006.01)**
[25] EN
[54] **TRANSPARENT HEATING ELEMENT, HEATING ELEMENT WITH COVER, SENSOR DEVICE, AND MOBILE OBJECT**
[54] **CORPS GENERATEUR DE CHALEUR TRANSPARENT, CORPS GENERATEUR DE CHALEUR DOTE D'UN COUVERCLE, DISPOSITIF CAPTEUR, ET CORPS MOBILE**
[72] HIRATA, KENRO, JP
[72] GOISHIHARA, SATOSHI, JP
[72] ABE, MAKOTO, JP
[72] HIRAKAWA, MANABU, JP
[71] DAI NIPPON PRINTING CO., LTD., JP
[85] 2021-05-21
[86] 2019-11-26 (PCT/JP2019/046168)
[87] (WO2020/111060)
[30] JP (2018-220599) 2018-11-26

[21] **3,120,844**
[13] A1

[51] **Int.Cl. A01N 43/84 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **METHOD OF CONTROLLING WEEDS**
[54] **PROCEDE DE LUTTE CONTRE LES MAUVAISES HERBES**
[72] SADA, YOSHINAO, JP
[72] JIN, YOSHINOBU, JP
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2021-05-21
[86] 2019-12-20 (PCT/JP2019/050058)
[87] (WO2020/137869)
[30] JP (2018-242255) 2018-12-26
[30] JP (2019-102239) 2019-05-31

[21] **3,120,845**
[13] A1

[51] **Int.Cl. A61K 8/9789 (2017.01) A23L 33/105 (2016.01) A23L 2/52 (2006.01) A61Q 19/08 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **AGENT FOR INHIBITING REDUCTION IN DECOMPOSITION OF DENATURED ELASTIN, AGENT FOR MAINTAINING NORMAL ELASTIN FIBERS, AGENT FOR INHIBITING FORMATION OF ELASTIN-ELAFINE COMPOSITE, AND SCREENING METHOD FOR SUBSTANCE HAVING ELASTIN-ELAFINE COMPOSITE FORMATION INHIBITORY EFFECT**
[54] **AGENT POUR INHIBER LA REDUCTION DE LA DECOMPOSITION D'ELASTINE DENATUREE, AGENT POUR MAINTENIR DES FIBRES D'ELASTINE NORMALES, AGENT POUR INHIBER LA FORMATION D'UN COMPOSITE D'ELASTINE-ELAFINE, ET METHODE DE CRIBLAGE POUR SUBSTANCE AYANT UN EFFET INHIBITEUR SUR LA FORMATION DE COMPOSITE D'ELASTINE-EEAFINE**
[72] AKAZAWA, SOTA, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2021-05-21
[86] 2019-12-24 (PCT/JP2019/050479)
[87] (WO2020/138023)
[30] JP (2018-245318) 2018-12-27

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[21] **3,120,847**
[13] A1
[51] **Int.Cl. H02S 20/20 (2014.01) H02S 20/23 (2014.01) H02S 40/38 (2014.01)**
[25] EN
[54] **DEVICES, METHODS, AND SYSTEMS FOR INSTALLATION OF PHOTOVOLTAIC SYSTEMS**
[54] **DISPOSITIFS, PROCEDES ET SYSTEMES POUR L'INSTALLATION DE SYSTEMES PHOTOVOLTAIQUES**
[72] TOMLINSON, JOSEPH, US
[71] PV SOLUTIONS, LLC, US
[85] 2021-05-21
[86] 2019-10-23 (PCT/US2019/057685)
[87] (WO2020/086734)
[30] US (62/749,648) 2018-10-23

[21] **3,120,848**
[13] A1
[51] **Int.Cl. A61B 10/02 (2006.01)**
[25] EN
[54] **EXFOLIATIVE CELL COLLECTION DEVICE FOR UTERUS EXAMINATION**
[54] **DISPOSITIF DE PRELEVEMENT DE CELLULES EXFOLIEES POUR EXAMEN DE L'UTERUS**
[72] IM, WOOK BIN, KR
[71] BIODYNE CO., LTD., KR
[85] 2021-05-21
[86] 2020-01-01 (PCT/KR2020/000003)
[87] (WO2020/171371)
[30] KR (10-2019-0020610) 2019-02-21

[21] **3,120,849**
[13] A1
[51] **Int.Cl. A22B 5/00 (2006.01) A22B 7/00 (2006.01) A22C 17/00 (2006.01) A22C 17/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR POSITIONING AND/OR HANDLING CARCASSES AND/OR CARCASS PARTS DURING THE SLAUGHTER OF ANIMALS ON AN INDUSTRIAL SCALE**
[54] **PROCEDE ET DISPOSITIF POUR POSITIONNER ET/OU MANIPULER DES CARCASSES ET/OU DES PARTIES DE CARCASSE LORS DE L'ABATTAGE D'ANIMAUX A L'ECHELLE INDUSTRIELLE**
[72] JACOBS, THOMAS GERARDUS MARIA, NL
[72] MADSEN, HEINZ, NL
[71] HUMBOLDT B.V., NL
[85] 2021-05-21
[86] 2019-11-21 (PCT/NL2019/050769)
[87] (WO2020/106151)
[30] NL (2022052) 2018-11-22

[21] **3,120,851**
[13] A1
[51] **Int.Cl. B60N 2/68 (2006.01) B60N 2/24 (2006.01)**
[25] EN
[54] **FRAME FOR SEATS IN PUBLIC TRANSPORT VEHICLES**
[54] **CADRE POUR SIEGES DANS DES VEHICULES DE TRANSPORT EN COMMUN**
[72] SZYMANSKI, MACIEJ, PL
[71] SZYMANSKI, MACIEJ, PL
[85] 2021-05-21
[86] 2019-11-19 (PCT/PL2019/000104)
[87] (WO2020/106166)
[30] PL (P.427882) 2018-11-23

[21] **3,120,852**
[13] A1
[51] **Int.Cl. G06F 16/2453 (2019.01)**
[25] EN
[54] **ELIMINATION OF QUERY FRAGMENT DUPLICATION IN COMPLEX DATABASE QUERIES**
[54] **ELIMINATION DE DUPLICATION DE FRAGMENT D'INTERROGATION LORS D'INTERROGATIONS DE BASE DE DONNEES COMPLEXES**
[72] VOGELSGESANG, ADRIAN, US
[72] HAUBENSCHILD, MICHAEL, US
[72] COLE, RICK, US
[72] FINIS, JAN, US
[72] THEN, MANUEL, US
[72] MUEHLBAUER, TOBIAS, US
[72] NEUMANN, THOMAS, US
[71] TABLEAU SOFTWARE, LLC, US
[85] 2021-05-21
[86] 2019-11-07 (PCT/US2019/060226)
[87] (WO2020/131243)
[30] US (16/231,302) 2018-12-21

[21] **3,120,853**
[13] A1
[51] **Int.Cl. A45D 34/04 (2006.01)**
[25] EN
[54] **NAIL BRUSH SYSTEM**
[54] **SYSTEME DE BROSSAGE D'ONGLES**
[72] REYZIS, LEONID, US
[71] ZOYA COMPANY, US
[85] 2021-05-21
[86] 2019-11-21 (PCT/US2019/062574)
[87] (WO2020/106935)
[30] US (62/770,388) 2018-11-21

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[21] **3,120,854**
[13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) E05B 47/02 (2006.01) E05B 47/06 (2006.01) E05B 51/00 (2006.01) E05B 65/10 (2006.01)**

[25] EN

[54] **ELECTRIC LATCH RETRACTION WITH POWER INTERRUPT**

[54] **RETRACTION DE VERROU ELECTRIQUE AVEC INTERRUPTION DE COURANT**

[72] FODSTAD, JASON, US

[72] LEHNER, JACK, US

[72] STALTER, JOHN, US

[71] SCHLAGE LOCK COMPANY LLC, US

[85] 2021-05-21

[86] 2019-11-21 (PCT/US2019/062624)

[87] (WO2020/106965)

[30] US (16/197,511) 2018-11-21

[21] **3,120,855**
[13] A1

[51] **Int.Cl. A61K 33/00 (2006.01) A61K 9/20 (2006.01) A61K 9/22 (2006.01) A61K 31/437 (2006.01) A61P 25/00 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **COMBINATION OF GABOXADOL AND LITHIUM FOR THE TREATMENT OF PSYCHIATRIC DISORDERS**

[54] **COMBINAISON DE GABOXOL ET DE LITHIUM POUR LE TRAITEMENT DE TROUBLES PSYCHIATRIQUES**

[72] OSTEN, PAVEL, US

[72] BALDWIN, KRISTIN, US

[72] DEVITA, ROBERT, US

[71] CERTEGO THERAPEUTICS INC., US

[85] 2021-05-21

[86] 2019-11-21 (PCT/US2019/062644)

[87] (WO2020/106976)

[30] US (62/770,287) 2018-11-21

[30] US (62/879,921) 2019-07-29

[21] **3,120,856**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/135 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **GABOXADOL FOR REDUCING RISK OF SUICIDE AND RAPID RELIEF OF DEPRESSION**

[54] **GABOXADOL POUR LA REDUCTION DU RISQUE DE SUICIDE ET LE SOULAGEMENT RAPIDE DE LA DEPRESSION**

[72] OSTEN, PAVEL, US

[72] BALDWIN, KRISTIN, US

[71] CERTEGO THERAPEUTICS INC., US

[85] 2021-05-21

[86] 2019-11-21 (PCT/US2019/062554)

[87] (WO2020/106927)

[30] US (62/770,287) 2018-11-21

[21] **3,120,857**
[13] A1

[51] **Int.Cl. B29C 64/10 (2017.01) G06Q 10/08 (2012.01) G06Q 20/04 (2012.01) G06Q 40/02 (2012.01) G06F 16/10 (2019.01) H04L 9/06 (2006.01)**

[25] EN

[54] **UNIQUE ITEM CREATION USING A DISTRIBUTED LEDGER**

[54] **CREATION D'ELEMENTS UNIQUES A L'AIDE D'UN REGISTRE DISTRIBUE**

[72] YANTIS, JONATHAN, US

[72] QUIGLEY, WILLIAM, US

[72] SLIWKA, LUKAS JAKUB, US

[71] VERONA HOLDINGS SEZC, KY

[71] YANTIS, JONATHAN, US

[71] QUIGLEY, WILLIAM, US

[71] SLIWKA, LUKAS JAKUB, US

[85] 2021-05-21

[86] 2019-11-21 (PCT/US2019/062673)

[87] (WO2020/106991)

[30] US (62/770,620) 2018-11-21

[30] US (62/770,624) 2018-11-21

[30] US (PCT/US2019/059389) 2019-11-01

[21] **3,120,858**
[13] A1

[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/4436 (2006.01) A61K 31/444 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF MODULATING SHORT-CHAIN DEHYDROGENASE ACTIVITY**

[54] **COMPOSITIONS ET PROCEDES DE MODULATION DE L'ACTIVITE DE LA DESHYDROGENASE A CHAINE COURTE**

[72] MARKOWITZ, SANFORD, US

[72] READY, JOSEPH, US

[72] GWALTNEY, II, STEPHEN L., US

[72] ANTCZAK, MONIKA, US

[71] CASE WESTERN RESERVE UNIVERSITY, US

[71] BOARD OF REGENTS - THE UNIVERSITY OF TEXAS SYSTEM, US

[71] RODEO THERAPEUTICS CORPORATION, US

[85] 2021-05-21

[86] 2019-11-21 (PCT/US2019/062686)

[87] (WO2020/106998)

[30] US (62/770,571) 2018-11-21

[21] **3,120,859**
[13] A1

[51] **Int.Cl. A61B 5/0215 (2006.01) A61B 5/00 (2006.01) A61B 5/145 (2006.01)**

[25] EN

[54] **CATHERIZATION METHOD AND APPARATUS**

[54] **METHODE ET APPAREIL DE CATHERISATION**

[72] TYLER, GREGORY SCOTT, II, US

[72] LE, THANH HUY, US

[72] NGUYEN, TAM VAN, US

[72] MONTOYA, DANIEL JAMES, US

[72] STEARNS, GRANT MATTHEW, US

[72] DIXON, ERIC ROBERT, US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2021-05-21

[86] 2019-11-25 (PCT/US2019/062977)

[87] (WO2020/112622)

[30] US (62/772,735) 2018-11-29

Demandes PCT entrant en phase nationale

[21] **3,120,860**
[13] A1

[51] **Int.Cl. A61K 35/13 (2015.01) A61K 35/18 (2015.01) A61K 39/00 (2006.01) A61K 39/02 (2006.01) A61K 39/39 (2006.01)**

[25] EN

[54] **NANOPARTICLES CONTAINING CELLULAR MEMBRANE AND USES THEREOF**

[54] **NANOPARTICULES CONTENANT UNE MEMBRANE CELLULAIRE ET LEURS UTILISATIONS**

[72] GAO, WEIWEI, US
[72] ZHU, HUIQING, US
[72] GUAN, JIAN, US
[72] LI, YU-WEN, US
[71] ARYTHA BIOSCIENCES LLC, US
[71] CELLICS THERAPEUTICS INC., US
[85] 2021-05-21
[86] 2019-11-25 (PCT/US2019/063110)
[87] (WO2020/112694)
[30] US (62/771,561) 2018-11-26

[21] **3,120,861**
[13] A1

[51] **Int.Cl. H04N 9/31 (2006.01) H01S 3/108 (2006.01) H01S 3/30 (2006.01)**

[25] EN

[54] **MULTI-WAVELENGTH VISIBLE LASER SOURCE**

[54] **SOURCE LASER VISIBLE A LONGUEURS D'ONDE MULTIPLES**

[72] ZEDIKER, MARK S., US
[71] NUBURU, INC., US
[85] 2021-05-21
[86] 2019-11-25 (PCT/US2019/063112)
[87] (WO2020/107036)
[30] US (62/770,892) 2018-11-23

[21] **3,120,862**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/541 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **9-SUBSTITUTED AMINO TRIAZOLO QUINAZOLINE DERIVATIVES AS ADENOSINE RECEPTOR ANTAGONISTS, PHARMACEUTICAL COMPOSITIONS AND THEIR USE**

[54] **DERIVES AMINO TRIAZOLO QUINAZOLINE 9-SUBSTITUES UTILES EN TANT QU'ANTAGONISTES DU RECEPTEUR DE L'ADENOSINE, COMPOSITIONS PHARMACEUTIQUES ET LEUR UTILISATION**

[72] LARSEN, MATTHEW A., US
[72] ALI, AMJAD, US
[72] CUMMING, JARED, US
[72] DEMONG, DUANE, US
[72] DENG, QIAOLIN, US
[72] GRAHAM, THOMAS H., US
[72] HENNESSY, ELISABETH, US
[72] HOOVER, ANDREW J., US
[72] LIU, PING, US
[72] LIU, KUN, US
[72] MANSOOR, UMAR FARUK, US
[72] PAN, JIANPING, US
[72] PLUMMER, CHRISTOPHER W., US
[72] SATHER, AARON, US
[72] SWAMINATHAN, UMA, US
[72] WANG, HUIJUN, US
[72] ZHANG, YONGLIAN, US
[71] MERCK SHARP & DOHME CORP., US
[85] 2021-05-21
[86] 2019-11-26 (PCT/US2019/063136)
[87] (WO2020/112700)
[30] US (62/774,077) 2018-11-30

[21] **3,120,863**
[13] A1

[51] **Int.Cl. G06F 11/36 (2006.01) G06F 8/658 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR TRAINING SYSTEMS TO DETECT SOFTWARE BUGS**

[54] **SYSTEMES ET PROCEDES POUR ENTRAINER DES SYSTEMES A DETECTER DES BOGUES LOGICIELS**

[72] MARKUS, BRIAN, US
[71] MARKUS, BRIAN, US
[85] 2021-05-21
[86] 2019-11-26 (PCT/US2019/063287)
[87] (WO2020/112800)
[30] US (62/771,345) 2018-11-26

[21] **3,120,864**
[13] A1

[51] **Int.Cl. H01M 10/0562 (2010.01) H01M 4/13 (2010.01) H01M 4/131 (2010.01) H01M 4/485 (2010.01) H01M 4/525 (2010.01) H01M 10/05 (2010.01) H01M 10/052 (2010.01) H01M 10/058 (2010.01) H01M 4/04 (2006.01) H01M 4/38 (2006.01) H01M 6/18 (2006.01) H01M 10/04 (2006.01)**

[25] EN

[54] **SOLID STATE BATTERIES**

[54] **PILE A ELECTROLYTE SOLIDE**

[72] YE, LUHAN, US
[72] FITZHUGH, WILLIAM, US
[72] LI, XIN, US
[72] WU, FAN, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2021-05-21
[86] 2019-11-26 (PCT/US2019/063354)
[87] (WO2020/112843)
[30] US (62/771,319) 2018-11-26

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[21] **3,120,865**
[13] A1

[51] **Int.Cl. B01D 53/22 (2006.01) B01J 20/22 (2006.01) B01J 31/16 (2006.01)**

[25] EN

[54] **MULTIVARIATE AND OTHER METAL-ORGANIC FRAMEWORKS, AND USES THEREOF**

[54] **STRUCTURES ORGANOMETALLIQUES A VARIABLES MULTIPLES ET AUTRES STRUCTURES ORGANOMETALLIQUES, ET LEURS UTILISATIONS**

[72] YAGHI, OMAR M., US
[72] HANIKEL, NIKITA, US
[72] LYU, HAO, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-05-21
[86] 2019-11-26 (PCT/US2019/063442)
[87] (WO2020/112899)
[30] US (62/771,537) 2018-11-26

[21] **3,120,866**
[13] A1

[51] **Int.Cl. A61K 31/407 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **TYK2 INHIBITORS AND USES THEREOF**

[54] **INHIBITEURS DE TYK2 ET LEURS UTILISATIONS**

[72] GREENWOOD, JEREMY ROBERT, US
[72] MASSE, CRAIG E., US
[71] NIMBUS LAKSHMI, INC., US
[85] 2021-05-21
[86] 2019-11-27 (PCT/US2019/063510)
[87] (WO2020/112937)
[30] US (62/773,620) 2018-11-30

[21] **3,120,867**
[13] A1

[51] **Int.Cl. C07H 1/00 (2006.01) C07H 15/256 (2006.01) C12P 19/56 (2006.01)**

[25] EN

[54] **HIGH-PURITY STEVIOL GLYCOSIDES**

[54] **GLYCOSIDES DE STEVIOL DE HAUTE PURETE**

[72] MARKOSYAN, AVETIK, AM
[72] CHOW, SIEW YIN, MY
[72] NIZAM BIN NAWI, KHAIRUL, MY
[72] CHKHAN, KRISTINA, RU
[72] AFZAAL BIN HASIM, MOHAMAD, MY
[72] RAMANDACH, SARAVANAN A/L, MY
[71] PURECIRCLE USA INC., US
[85] 2021-05-21
[86] 2019-11-27 (PCT/US2019/063543)
[87] (WO2020/112957)
[30] US (62/771,937) 2018-11-27

[21] **3,120,868**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **CD86 VARIANT IMMUNOMODULATORY PROTEINS AND USES THEREOF**

[54] **PROTEINES IMMUNOMODULATRICES A VARIANTS CD86 ET LEURS UTILISATIONS**

[72] SWANSON, RYAN, US
[72] ARDOUREL, DAN, US
[72] KUIJPER, JOSEPH L., US
[72] LEVIN, STEVEN DENNIS, US
[71] ALPINE IMMUNE SCIENCES, INC., US
[85] 2021-05-21
[86] 2019-11-27 (PCT/US2019/063808)
[87] (WO2020/113141)
[30] US (62/774,131) 2018-11-30
[30] US (62/862,001) 2019-06-14

[21] **3,120,869**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHODS FOR TREATMENT USING ADOPTIVE CELL THERAPY**

[54] **METHODES POUR LE TRAITEMENT PAR THERAPIE CELLULAIRE ADOPTIVE**

[72] ALBERTSON, TINA, US
[72] GARCIA, JACOB RANDOLPH, US
[72] GILBERT, MARK, US
[72] LI, HE, US
[72] SUTHERLAND, CLAIRE, US
[72] TREDE, NIKOLAUS SEBASTIAN, US
[71] JUNO THERAPEUTICS, INC., US
[85] 2021-05-21
[86] 2019-11-29 (PCT/US2019/063889)
[87] (WO2020/113194)
[30] US (62/774,164) 2018-11-30
[30] US (62/776,415) 2018-12-06
[30] US (62/847,926) 2019-05-14
[30] US (62/854,945) 2019-05-30
[30] US (62/890,600) 2019-08-22
[30] US (62/931,204) 2019-11-05

[21] **3,120,870**
[13] A1

[51] **Int.Cl. C07D 453/02 (2006.01) A61K 31/439 (2006.01)**

[25] EN

[54] **PRODRUGS OF QUINUCLIDINE RING-CONTAINING MUSCARINIC AGONISTS AND COMPOSITIONS AND METHODS THEREOF**

[54] **PROMEDICAMENTS AGONISTES MUSCARINIQUES CONTENANT UN CYCLE QUINUCLIDINE ET COMPOSITIONS ET METHODES ASSOCIEES**

[72] HORN, GERALD, US
[71] PRESBYOPIA THERAPIES, INC., US
[85] 2021-05-21
[86] 2019-12-02 (PCT/US2019/063923)
[87] (WO2020/117637)
[30] US (62/775,425) 2018-12-05

Demandes PCT entrant en phase nationale

[21] **3,120,871**
[13] A1

[51] **Int.Cl. G06Q 20/34 (2012.01) G06Q 20/10 (2012.01) G06Q 20/36 (2012.01)**

[25] EN

[54] **DIGITAL IDENTITY MANAGEMENT DEVICE**

[54] **DISPOSITIF DE GESTION D'IDENTITE NUMERIQUE**

[72] BIENFAIT, ROBERTA ANN, US

[71] RB GLOBAL MOBILE SOLUTIONS, LLC, US

[85] 2021-05-21

[86] 2019-12-02 (PCT/US2019/064029)

[87] (WO2020/113223)

[30] US (62/773,725) 2018-11-30

[21] **3,120,874**
[13] A1

[51] **Int.Cl. F16L 1/26 (2006.01) F16L 55/17 (2006.01)**

[25] EN

[54] **FLEXIBLE PIPING AND PROCESS FOR CAPTURING ACCIDENTAL PRESSURIZED FLUID LEAKS FROM A DAMAGED PIPE**

[54] **CONDUITE SOUPLE ET PROCEDE DE CAPTURE DE FUITES ACCIDENTELLES DE FLUIDE SOUS PRESSION A PARTIR D'UNE CONDUITE ENDOMMAGEE**

[72] VLAD, MARIAN GABRIEL, RO

[71] VLAD, MARIAN GABRIEL, RO

[85] 2021-05-21

[86] 2019-11-21 (PCT/RO2019/000027)

[87] (WO2020/214045)

[30] RO (a 2018 00930) 2018-11-22

[21] **3,120,875**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **METHODS OF USING ANTI-TREM2 ANTIBODIES**

[54] **METHODES D'UTILISATION D'ANTICORPS ANTI-TREM2**

[72] STREULI, MICHEL, US

[72] PRESTA, LEONARD G., US

[72] SRIRAM, VENKATARAMAN, US

[72] PAL, ARITRA, US

[72] JAHCHAN, NADINE, US

[72] BINNEWIES, MIKHAIL, US

[72] POLLACK, JOSHUA L., US

[72] DU, XIAOYAN, US

[71] PIONYR IMMUNOTHERAPEUTICS, INC., US

[85] 2021-05-21

[86] 2019-12-11 (PCT/US2019/065743)

[87] (WO2020/123664)

[30] US (PCT/US2018/065026) 2018-12-11

[30] US (62/889,990) 2019-08-21

[21] **3,120,877**
[13] A1

[51] **Int.Cl. H04N 19/159 (2014.01) H04N 19/14 (2014.01) H04N 19/68 (2014.01) H04N 19/82 (2014.01)**

[25] EN

[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS FOR INTER PREDICTION**

[54] **CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS POUR UNE PREDICTION INTER**

[72] SOLOVYEV, TIMOFEY MIKHAILOVICH, CN

[72] ESENLIK, SEMIH, DE

[72] CHEN, JIANLE, US

[72] KOTRA, ANAND MEHER, DE

[72] GAO, HAN, DE

[72] WANG, BIAO, DE

[72] CHERNYAK, ROMAN IGOREVICH, CN

[72] KARABUTOV, ALEXANDER ALEXANDROVICH, CN

[72] IKONIN, SERGEY YURIEVICH, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2021-05-21

[86] 2019-11-22 (PCT/RU2019/050224)

[87] (WO2020/106190)

[30] US (62/770,826) 2018-11-22

[30] US (62/787,678) 2019-01-02

[30] US (62/816,897) 2019-03-11

[30] US (62/905,367) 2019-09-24

[21] **3,120,878**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G16H 20/60 (2018.01) G16H 50/20 (2018.01)**

[25] EN

[54] **AUTOMATED METHOD AND SYSTEM FOR GENERATING PERSONALIZED DIETARY AND HEALTH ADVICE OR RECOMMENDATIONS FOR INDIVIDUAL USERS**

[54] **PROCEDE ET SYSTEME AUTOMATISES DESTINES A GENERER DES CONSEILS OU DES RECOMMANDATIONS ALIMENTAIRES ET SANITAIRES PERSONNALISE(E)S POUR DES UTILISATEURS INDIVIDUELS**

[72] HADAD, YARON, US

[72] MODLINGER, DANIEL, US

[71] MEDTRONIC MINIMED, INC., US

[85] 2021-05-21

[86] 2019-12-11 (PCT/US2019/065762)

[87] (WO2020/131527)

[30] US (62/782,275) 2018-12-19

[30] US (16/709,721) 2019-12-10

[21] **3,120,880**
[13] A1

[51] **Int.Cl. A61K 31/662 (2006.01) A61P 5/14 (2006.01) C07F 9/30 (2006.01)**

[25] EN

[54] **THRβ RECEPTOR AGONIST COMPOUND AND PREPARATION METHOD AND USE THEREOF**

[54] **COMPOSE AGONISTE DE RECEPTEUR THRβ SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] YU, SHANGHAI, US

[72] LI, BEN, US

[71] TERNS, INC., US

[85] 2021-05-21

[86] 2019-12-12 (PCT/US2019/066013)

[87] (WO2020/123827)

[30] CN (201811527414.4) 2018-12-13

PCT Applications Entering the National Phase

[21] **3,120,882**
[13] A1

[51] **Int.Cl. A61K 31/454 (2006.01) A61K 31/375 (2006.01) A61K 31/56 (2006.01) A61P 11/06 (2006.01) A61P 37/00 (2006.01) A61P 37/08 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **USE OF GLUTARIMIDE DERIVATIVE FOR OVERCOMING STEROID RESISTANCE AND TREATING DISEASES ASSOCIATED WITH ABERRANT INTERFERON GAMMA SIGNALING**

[54] **PRODUCTION DE GLUTARIMIDE POUR VAINCRE LA RESISTANCE AUX STEROIDES**

[72] NEBOLSIN, VLADIMIR
EVGENIEVICH, RU

[71] "CHEMIMMUNE THERAPEUTICS" LIMITED LIABILITY COMPANY, RU

[85] 2021-05-21
[86] 2019-11-22 (PCT/RU2019/050225)
[87] (WO2020/106191)
[30] RU (2018141291) 2018-11-23

[21] **3,120,883**
[13] A1

[51] **Int.Cl. A61B 17/80 (2006.01) A61B 17/68 (2006.01) A61B 17/70 (2006.01)**

[25] EN

[54] **BONE FIXATION AND REPAIR SYSTEM**

[54] **SYSTEME DE FIXATION ET DE REPARATION D'OS**

[72] DAVISON, ANDREW CHARLES, US
[72] KREMER, KENNETH CARLTON, US
[71] ZIMMER BIOMET CMF AND THORACIC, LLC, US

[85] 2021-05-21
[86] 2019-12-13 (PCT/US2019/066314)
[87] (WO2020/123996)
[30] US (62/779,747) 2018-12-14

[21] **3,120,885**
[13] A1

[51] **Int.Cl. A63H 33/04 (2006.01) A63H 33/08 (2006.01) A63H 33/10 (2006.01)**

[25] EN

[54] **CREATIVE CONSTRUCTION SET ADDITIONAL ACCESSORIES**

[54] **ACCESSOIRES SUPPLEMENTAIRES POUR ENSEMBLE DE CONSTRUCTION CREATIVE**

[72] KLAUBER, BRIAN D., US
[72] GOULD, BENJAMIN, US
[72] DEGIACOMO, FRANK, US
[72] KLAUBER, ROBERT D., US
[71] CREATIVE TOYS LLC, US

[85] 2021-05-21
[86] 2019-12-16 (PCT/US2019/066506)
[87] (WO2020/142187)
[30] US (62/788,787) 2019-01-05

[21] **3,120,886**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/25 (2006.01) A61K 8/27 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS**

[54] **COMPOSITIONS DE SOINS BUCCODENTAIRES**

[72] TANG, SAIDE, US
[72] FEI, LIN, US
[72] CHOPRA, SUMAN, US
[72] UTGIKAR, NEELIMA, IN
[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2021-05-21
[86] 2019-12-19 (PCT/US2019/067689)
[87] (WO2020/132375)
[30] US (62/782,702) 2018-12-20

[21] **3,120,887**
[13] A1

[51] **Int.Cl. E04C 2/284 (2006.01) B32B 3/06 (2006.01) B32B 5/18 (2006.01) B32B 5/26 (2006.01) B32B 17/02 (2006.01) B32B 17/10 (2006.01) E04F 13/075 (2006.01)**

[25] EN

[54] **PET FOAM STRUCTURAL INSULATED PANEL FOR USE IN RESIDENTIAL CONSTRUCTION AND CONSTRUCTION METHOD ASSOCIATED THEREWITH**

[54] **PANNEAU STRUCTURAL ISOLE EN MOUSSE DE PET DESTINE A ETRE UTILISE DANS UNE CONSTRUCTION RESIDENTIELLE ET PROCEDE DE CONSTRUCTION ASSOCIE A CE DERNIER**

[72] GERMAN, JOEL, CA
[72] SAULNIER, DAVID, CA
[71] JD COMPOSITES INC., CA

[85] 2021-05-25
[86] 2019-12-02 (PCT/CA2019/000162)
[87] (WO2020/113309)
[30] CA (3,026,529) 2018-12-05

[21] **3,120,888**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2012.01)**

[25] EN

[54] **ENFORCING DATA CONSISTENCY IN A TRANSPORTATION NETWORK**

[54] **APPLICATION DE COHERENCE DE DONNEES DANS UN RESEAU DE TRANSPORT**

[72] SUBRAMANIAM, BALAKRISHNA, US
[72] CHODYNIECKI, JASON, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US

[85] 2021-05-21
[86] 2020-01-02 (PCT/US2020/012072)
[87] (WO2020/146188)
[30] US (16/242,717) 2019-01-08

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[51] Int.Cl. G06F 9/451 (2018.01) H04W 28/06 (2009.01) H03M 7/30 (2006.01) H04L 29/06 (2006.01) H04L 29/08 (2006.01)	[51] Int.Cl. E03C 1/02 (2006.01) E03C 1/04 (2006.01) E03C 1/06 (2006.01)	[51] Int.Cl. G06F 16/332 (2019.01) G06F 40/205 (2020.01) G06F 40/279 (2020.01) G06N 5/02 (2006.01)
[25] EN	[25] EN	[25] EN
[54] COMPUTING SYSTEM WITH GATEWAY DATA TRANSFER BASED UPON DEVICE DATA FLOW CHARACTERISTICS AND RELATED METHODS	[54] SHOWER COLUMN ASSEMBLY	[54] MAPPING NATURAL LANGUAGE UTTERANCES TO NODES IN A KNOWLEDGE GRAPH
[54] SYSTEME INFORMATIQUE AVEC TRANSFERT DE DONNEES DE PASSERELLE SUR LA BASE DE CARACTERISTIQUES DE FLUX DE DONNEES DE DISPOSITIF ET PROCEDES ASSOCIES	[54] ENSEMBLE COLONNE DE DOUCHE	[54] MISE EN CORRESPONDANCE D'ENONCES EN LANGAGE NATUREL AVEC DES NŒUDS DANS UN GRAPHE DE CONNAISSANCES
[72] RAMAREDDY, SHASHIDHAR, US	[72] SIERKS, ERIK, US	[72] OSMON, CYNTHIA J., US
[72] MOMCHILOV, GEORGY, US	[72] BENSTEAD, EVAN, US	[72] MEIKE, ROGER C., US
[72] MITTAL, ANKUR, IN	[71] SPECTRUM BRANDS, INC., US	[72] KUMAR, SRICHARAN KALLUR PALLI, US
[71] CITRIX SYSTEMS, INC., US	[85] 2021-05-21	[72] COULOMBE, GREGORY KENNETH, US
[85] 2021-05-21	[86] 2020-02-14 (PCT/US2020/018277)	[72] MALYNIN, PAVLO, US
[86] 2020-01-15 (PCT/US2020/013607)	[87] (WO2020/168182)	[71] INTUIT INC., US
[87] (WO2020/154141)	[30] US (62/806,510) 2019-02-15	[85] 2021-05-21
[30] US (16/252,809) 2019-01-21	[30] US (62/902,702) 2019-09-19	[86] 2020-06-08 (PCT/US2020/036589)
	[30] US (16/790,130) 2020-02-13	[87] (WO2021/066890)
		[30] US (16/588,873) 2019-09-30
[21] 3,120,890 [13] A1	[21] 3,120,892 [13] A1	[21] 3,120,894 [13] A1
[51] Int.Cl. G06F 9/451 (2018.01) H04W 28/06 (2009.01) H03M 7/30 (2006.01) H04L 29/06 (2006.01) H04L 29/08 (2006.01)	[51] Int.Cl. G06F 40/30 (2020.01) G06F 40/205 (2020.01) G06N 3/02 (2006.01)	[51] Int.Cl. A61M 1/16 (2006.01) A61J 1/14 (2006.01) A61J 1/10 (2006.01)
[25] EN	[25] EN	[25] EN
[54] COMPUTING SYSTEM WITH DATA TRANSFER BASED UPON DEVICE DATA FLOW CHARACTERISTICS AND RELATED METHODS	[54] ENHANCED INTENT MATCHING USING KEYWORD-BASED WORD MOVER'S DISTANCE	[54] BAG FOR SOLID CONCENTRATE
[54] SYSTEME INFORMATIQUE AVEC TRANSFERT DE DONNEES BASE SUR DES CARACTERISTIQUES DE FLUX DE DONNEES DE DISPOSITIF ET PROCEDES ASSOCIES	[54] MISE EN CORRESPONDANCE D'INTENTIONS AMELIOREE A L'AIDE D'UNE DISTANCE DE DEPLACEUR DE MOT A BASE D'UN MOT-CLE	[54] SAC POUR CONCENTRE SOLIDE
[72] RAMAREDDY, SHASHIDHAR, US	[72] COULOMBE, GREGORY KENNETH, US	[72] LAFFAY, PHILIPPE, FR
[72] MOMCHILOV, GEORGY, US	[72] MEIKE, ROGER C., US	[72] DUMONT D'AYOT, FRANCOIS, FR
[72] MITTAL, ANKUR, IN	[72] OSMON, CYNTHIA, US	[72] RAYMOND, CATHERINE, FR
[71] CITRIX SYSTEMS, INC., US	[72] KUMAR, SRICHARAN KALLUR PALLI, US	[71] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE
[85] 2021-05-21	[72] MALYNIN, PAVLO, US	[85] 2021-05-25
[86] 2020-01-15 (PCT/US2020/013614)	[71] INTUIT INC., US	[86] 2019-11-26 (PCT/EP2019/082635)
[87] (WO2020/154143)	[85] 2021-05-21	[87] (WO2020/109334)
[30] US (16/252,801) 2019-01-21	[86] 2020-05-21 (PCT/US2020/033919)	[30] FR (1872167) 2018-11-30
	[87] (WO2021/101589)	
	[30] US (16/686,876) 2019-11-18	

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[21] **3,120,895**
[13] A1

[51] **Int.Cl. G01N 27/447 (2006.01) C12Q 1/6813 (2018.01) G16B 35/00 (2019.01) C12Q 1/68 (2018.01) C40B 10/00 (2006.01) C40B 30/04 (2006.01) G01N 21/25 (2006.01) G01N 21/64 (2006.01)**

[25] EN
[54] **BINDER SELECTION USING CAPILLARY ELECTROPHORESIS**
[54] **SELECTION DE LIANT A L'AIDE D'UNE ELECTROPHORESE CAPILLAIRE**

[72] KRYLOV, SERGEY N., CA
[71] KRYLOV, SERGEY N., CA
[85] 2021-05-25
[86] 2019-12-16 (PCT/CA2019/051820)
[87] (WO2020/124213)
[30] US (62/782,720) 2018-12-20

[21] **3,120,896**
[13] A1

[51] **Int.Cl. A61H 1/02 (2006.01)**

[25] EN
[54] **DEVICE FOR CONNECTING A LEG OF A PERSON TO A MOVEMENT MECHANISM**
[54] **DISPOSITIF DESTINE A RELIER UNE JAMBE D'UNE PERSONNE A UN MECANISME DE DEPLACEMENT**

[72] KONIG, ALEXANDER, DE
[72] GROSSE-DUNKER, MAXIMILIAN, DE
[72] JAHN, JOACHIM, DE
[72] SCHLAFER, RAMONA SUSANNA, DE
[72] OSCHWALD, HELMUT, DE
[72] SCHIKORR, OLAF, DE
[72] KOSTLMEIER, MANFRED, DE
[71] REACTIVE ROBOTICS GMBH, DE
[85] 2021-05-25
[86] 2019-11-25 (PCT/DE2019/101006)
[87] (WO2020/103985)
[30] DE (10 2018 129 647.9) 2018-11-23

[21] **3,120,897**
[13] A1

[51] **Int.Cl. H04W 28/00 (2009.01)**

[25] EN
[54] **USER ACCESS CONTROL METHOD, INFORMATION SENDING METHOD, AND APPARATUS**
[54] **PROCEDE DE CONTROLE D'ACCES D'UTILISATEUR, PROCEDE DE TRANSMISSION D'INFORMATIONS ET APPAREILS ASSOCIES**

[72] XIN, YANG, CN
[72] WU, XIAOBO, CN
[72] CHONG, WEIWEI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-05-25
[86] 2019-09-10 (PCT/CN2019/105211)
[87] (WO2020/108003)
[30] CN (201811429525.1) 2018-11-27

[21] **3,120,898**
[13] A1

[51] **Int.Cl. E21B 34/12 (2006.01) E21B 43/12 (2006.01) E21B 43/26 (2006.01)**

[25] EN
[54] **SLEEVE VALVE**
[54] **VANNE A MANCHON**

[72] SARGENT, SHANE, CA
[72] MCCARTHY, MATTHEW, CA
[72] BORSCHNECK, SEAN, CA
[71] TORSCH INC., CA
[85] 2021-05-25
[86] 2019-11-25 (PCT/CA2019/051682)
[87] (WO2020/102913)
[30] US (62/770,914) 2018-11-23

[21] **3,120,899**
[13] A1

[51] **Int.Cl. C12Q 1/18 (2006.01)**

[25] EN
[54] **ANTIMICROBIAL SUSCEPTIBILITY ASSAY AND KIT**
[54] **DOSAGE ET KIT DE SENSIBILITE ANTIMICROBIENNE**

[72] KELL, DOUGLAS, GB
[72] JINDAL, SRIJAN, GB
[71] THE UNIVERSITY OF MANCHESTER, GB
[85] 2021-05-25
[86] 2019-11-26 (PCT/GB2019/053324)
[87] (WO2020/109764)
[30] GB (1819187.4) 2018-11-26

[21] **3,120,900**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01)**

[25] EN
[54] **RANDOM ACCESS METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF D'ACCES ALEATOIRE**

[72] XU, WEIJIE, CN
[72] HE, CHUANFENG, CN
[72] XU, JING, CN
[72] SHI, CONG, CN
[72] WU, ZUOMIN, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-05-25
[86] 2019-11-21 (PCT/CN2019/120034)
[87] (WO2020/108384)
[30] CN (PCT/CN2018/118653) 2018-11-30

[21] **3,120,901**
[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] BLOMGREN, FREDRIK, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2021-05-25
[86] 2019-11-11 (PCT/EP2019/080830)
[87] (WO2020/108969)
[30] EP (18208338.6) 2018-11-26

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[21] **3,120,902**
[13] A1

[51] **Int.Cl. C07D 487/02 (2006.01) A61K 31/40 (2006.01) A61P 31/04 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **3-(PHENYLSULFONYL)-[1,2,3]TRIAZOLO[1,5A]QUINAZOLIN-5(4H)-ONE DERIVATIVES**

[54] **DERIVES DE 3-(PHENYLSULFONYL)-[1,2,3]TRIAZOLO[1,5A]QUINAZOLIN-5(4H)-ONE**

[72] BOUROTTE, MARILYNE, FR

[72] PIEREN, MICHEL, CH

[72] LOCIURO, SERGIO, CH

[72] GITZINGER, MARC, CH

[72] KEMMER, CHRISTIAN, CH

[72] SCHELLHORN, BIRGIT, DE

[72] SCHILL, JULIAN, CH

[72] SCHNEIDER, PETER, CH

[71] BIOVERSYS AG, CH

[85] 2021-05-25

[86] 2019-11-27 (PCT/EP2019/082663)

[87] (WO2020/109350)

[30] EP (18208943.3) 2018-11-28

[21] **3,120,903**
[13] A1

[51] **Int.Cl. C07H 3/02 (2006.01) C13B 30/00 (2011.01) B01D 9/02 (2006.01) C07H 1/06 (2006.01)**

[25] EN

[54] **CONTINUOUS METHOD FOR OBTAINING A CRYSTALLINE MONOSACCHARIDE AND DEVICE FOR CONTINUOUS CRYSTALLIZATION**

[54] **PROCEDE EN CONTINU PERMETTANT D'OBTENIR UN MONOSACCHARIDE CRISTALLIN ET PROCEDE DE CRISTALLISATION EN CONTINU**

[72] LOHN, MIRKO, DE

[72] FERSTERRA, HOLGER, DE

[71] BMA BRAUNSCHWEIGISCHE MASCHINENBAUANSTALT AG, DE

[85] 2021-05-25

[86] 2019-11-27 (PCT/EP2019/082685)

[87] (WO2020/114850)

[30] DE (10 2018 131 131.1) 2018-12-06

[21] **3,120,904**
[13] A1

[51] **Int.Cl. E03D 9/03 (2006.01)**

[25] EN

[54] **EXTENDED-TIME RELEASE METHOD AND DEVICE FOR TOILET CLEANER**

[54] **PROCEDE ET DISPOSITIF POUR LA LIBERATION RETARDEE DE NETTOYANT POUR TOILETTES**

[72] LAI, ZHANQIU, CN

[72] HU, LILI, CN

[72] WANG, CANCAN, CN

[71] GUANGZHOU BLUE MOON INDUSTRIAL CO., LTD., CN

[85] 2021-05-25

[86] 2020-03-03 (PCT/CN2020/077526)

[87] (WO2020/215896)

[30] CN (201910339454.4) 2019-04-25

[30] CN (201910339489.8) 2019-04-25

[30] CN (201910340269.7) 2019-04-25

[30] CN (201911229853.1) 2019-12-04

[30] CN (201911228402.6) 2019-12-04

[30] CN (201911229742.0) 2019-12-04

[21] **3,120,905**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A23L 33/135 (2016.01) A61K 35/74 (2015.01)**

[25] EN

[54] **CHRISTENSENELLACEAE BACTERIA INCLUDING CHRISTENSENELLA MINUTA AND USES THEREOF**

[54] **BACTERIES CHRISTENSENELLACEAE COMPRENANT CHRISTENSENELLA MINUTA ET LEURS UTILISATIONS**

[72] SANZ HERRANZ, YOLANDA, XX

[72] GOMEZ DEL PULGAR VILLANUEVA, EVA MARIA, XX

[72] AGUSTI FELIU, ANA, XX

[72] CENIT LAGUNA, MARIA CARMEN, XX

[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC), ES

[85] 2021-05-25

[86] 2019-11-27 (PCT/EP2019/082793)

[87] (WO2020/109414)

[30] ES (P201831153) 2018-11-28

[21] **3,120,907**
[13] A1

[51] **Int.Cl. E04B 9/02 (2006.01) F24F 13/02 (2006.01)**

[25] EN

[54] **BUILDING SYSTEM COMPRISING A CEILING SYSTEM**

[54] **SYSTEME DE CONSTRUCTION COMPRENANT UN SYSTEME DE PLAFOND**

[72] JESPERSEN, UFFE, DK

[72] TOUGNE, GAEL, DK

[72] OLSSON, MATS-ARNE, SE

[71] SAINT-GOBAIN ECOPHON AB, SE

[85] 2021-05-25

[86] 2019-11-28 (PCT/EP2019/082877)

[87] (WO2020/114876)

[30] EP (18209786.5) 2018-12-03

[21] **3,120,908**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**

[25] EN

[54] **METHOD FOR TRANSFERRING A POURABLE MEDIUM**

[54] **PROCEDE DE TRANSFERT D'UN MILIEU COULANT OU SUSCEPTIBLE DE COULER**

[72] MLECZKO, LESLAW, DE

[72] SCHWEIGER, ARMIN, DE

[72] WEGENER, KATHRIN, DE

[72] COULON, CARL-HELMUT, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2021-05-25

[86] 2019-11-21 (PCT/EP2019/082058)

[87] (WO2020/109126)

[30] EP (18208802.1) 2018-11-28

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[21] **3,120,909**
[13] A1

[51] **Int.Cl. E21B 49/00 (2006.01) G01N 3/24 (2006.01)**

[25] EN

[54] **METHOD OF EVALUATING CAPABILITY OF DRILLING FLUID TO CONSOLIDATE WELL WALL AND BREAK SURROUNDING ROCK**

[54] **PROCEDE D'EVALUATION DE LA CAPACITE D'UN FLUIDE DE FORAGE A CONSOLIDER UNE PAROI DE Puits ET A BRISER LA ROCHE ENVIRONNANTE**

[72] LIANG, LIXI, CN
[72] LIU, XIANGJUN, CN
[72] XIONG, JIAN, CN
[71] SOUTHWEST PETROLEUM UNIVERSITY, CN
[85] 2021-05-25
[86] 2020-09-11 (PCT/CN2020/114848)
[87] (WO2021/077938)
[30] CN (201911026896.X) 2019-10-26

[21] **3,120,910**
[13] A1

[51] **Int.Cl. A21D 13/11 (2017.01) A21D 13/13 (2017.01) A21D 13/41 (2017.01)**

[25] EN

[54] **PIZZA PRODUCT, PACKAGING FOR A PIZZA PRODUCT, AND METHOD OF COOKING AND DISTRIBUTION FOR A PIZZA PRODUCT**

[54] **PRODUIT DE PIZZA, CONDITIONNEMENT DE PRODUIT DE PIZZA ET PROCEDE DE CUISSON ET DE DISTRIBUTION D'UN PRODUIT DE PIZZA**

[72] FISCHMANN, FERNANDO BENJAMIN, CL
[71] YAE, LLC, US
[85] 2021-05-27
[86] 2019-11-27 (PCT/IB2019/001274)
[87] (WO2020/109862)
[30] US (62/773,843) 2018-11-30

[21] **3,120,911**
[13] A1

[51] **Int.Cl. B65G 1/00 (2006.01) B65G 1/06 (2006.01)**

[25] EN

[54] **A METHOD, A COMPUTER PROGRAM AND A DEVICE FOR TRANSPORTING PALLETES**

[54] **PROCEDE, PROGRAMME INFORMATIQUE ET DISPOSITIF DE TRANSPORT DE PALETTES**

[72] LARSSON, CHRISTER, SE
[72] KJELLSTROM, STEFAN, SE
[71] EAB AB, SE
[85] 2021-05-25
[86] 2019-11-21 (PCT/EP2019/082126)
[87] (WO2020/109139)
[30] SE (1851467-9) 2018-11-27

[21] **3,120,912**
[13] A1

[51] **Int.Cl. C09D 183/08 (2006.01) C08G 77/14 (2006.01) C08G 77/16 (2006.01) C08G 77/18 (2006.01) C08G 77/26 (2006.01) C08G 77/388 (2006.01) C08L 83/06 (2006.01) C09J 183/08 (2006.01)**

[25] EN

[54] **CURABLE SILICONE COMPOSITIONS CONTAINING ADDITIVES**

[54] **COMPOSITIONS DE SILICONE DURCISSABLES CONTENANT DES ADDITIFS**

[72] HEMERY, THERESE, DE
[72] BOUDET, HELENE, DE
[72] KLEIN, JOHANN, DE
[71] HENKEL AG & CO. KGAA, DE
[85] 2021-05-25
[86] 2019-11-22 (PCT/EP2019/082170)
[87] (WO2020/109146)
[30] EP (18209561.2) 2018-11-30

[21] **3,120,914**
[13] A1

[51] **Int.Cl. C09D 183/06 (2006.01) C08G 77/14 (2006.01) C08G 77/16 (2006.01) C08G 77/18 (2006.01) C08G 77/26 (2006.01) C08G 77/388 (2006.01) C08L 83/06 (2006.01) C09D 183/08 (2006.01) C09J 183/08 (2006.01)**

[25] EN

[54] **ENDCAPPED CURABLE POLYORGANOSILOXANES**

[54] **POLYORGANOSILOXANES DURCISSABLES A EXTREMITES COIFFEES**

[72] HEMERY, THERESE, DE
[72] DURACY, ADRIAN, DE
[72] KLEIN, JOHANN, DE
[71] HENKEL AG & CO. KGAA, DE
[85] 2021-05-25
[86] 2019-11-22 (PCT/EP2019/082324)
[87] (WO2020/109187)
[30] EP (18209567.9) 2018-11-30

[21] **3,120,915**
[13] A1

[51] **Int.Cl. A24F 47/00 (2020.01) A24F 40/00 (2020.01) A24F 40/20 (2020.01) A24D 1/02 (2006.01)**

[25] EN

[54] **AN AEROSOL GENERATING ARTICLE AND A METHOD FOR MANUFACTURING AN AEROSOL GENERATING ARTICLE**

[54] **ARTICLE DE GENERATION D'AEROSOL ET PROCEDE DE FABRICATION D'UN ARTICLE DE GENERATION D'AEROSOL**

[72] BLACK, PAUL, DE
[72] ROGAN, ANDREW ROBERT JOHN, GB
[72] ZHURBA, OLEKSANDR, DE
[71] JT INTERNATIONAL SA, CH
[85] 2021-05-25
[86] 2019-11-25 (PCT/EP2019/082359)
[87] (WO2020/109203)
[30] EP (18209126.4) 2018-11-29
[30] EP (18209147.0) 2018-11-29
[30] EP (18211375.3) 2018-12-10
[30] EP (19158423.4) 2019-02-21

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[21] **3,120,917**
[13] A1

[51] **Int.Cl. C12Q 1/18 (2006.01)**
[25] EN
[54] **METHOD FOR TESTING OF ANTIBIOTIC SUSCEPTIBILITY IN MICROORGANISMS**
[54] **PROCEDE POUR TESTER L'ANTIBIOSENSIBILITE DES MICRO-ORGANISMES**
[72] DUBEY, SACHIN, IN
[72] KHAN, USMAN, IN
[72] CHAUDHARI, RAHUL, IN
[72] KV, MAYA, IN
[71] MODULE INNOVATIONS PRIVATE LIMITED, IN
[85] 2021-05-25
[86] 2019-11-26 (PCT/IB2019/060153)
[87] (WO2020/109986)
[30] IN (201821044730) 2018-11-27

[21] **3,120,919**
[13] A1

[51] **Int.Cl. B28B 3/02 (2006.01) A61L 27/00 (2006.01) A61L 27/46 (2006.01) A61L 27/56 (2006.01) B28B 3/08 (2006.01) B28B 3/10 (2006.01) B28B 11/24 (2006.01) B28B 13/02 (2006.01) B28B 17/00 (2006.01) B30B 11/06 (2006.01) B30B 11/26 (2006.01) B30B 15/30 (2006.01) C04B 35/00 (2006.01) C04B 35/447 (2006.01) C04B 35/622 (2006.01) C04B 35/636 (2006.01)**
[25] EN
[54] **A MACHINE FOR MOULDING COMPOSITE MATTER AND A METHOD OF PRODUCING CERAMICS-BASED COMPOSITE**
[54] **MACHINE DE MOULAGE DE MATIERE COMPOSITE ET PROCEDE DE PRODUCTION DE COMPOSITE A BASE DE CERAMIQUE**
[72] KUCZMASZEWSKI, JOZEF, PL
[72] ANASIEWICZ, KAMIL, PL
[72] WLODARCZYK, MACIEJ, PL
[72] WARDA, TOMASZ, PL
[72] BELCARZ, ANNA, PL
[72] GINALSKA, GRAZYNA, PL
[71] MEDICAL INVENTI S.A., PL
[85] 2021-05-25
[86] 2019-12-04 (PCT/IB2019/060420)
[87] (WO2020/115668)
[30] PL (P.428052) 2018-12-04

[21] **3,120,920**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/26 (2006.01) A61K 47/38 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **MONTELUKAST FOR THE TREATMENT OF EROSIVE HAND OSTEOARTHRITIS**
[54] **MONTELUKAST DE TRAITEMENT DE L'OSTEOARTHRITE EROSIVE DE LA MAIN**
[72] MONFORT FAURE, JORDI, ES
[72] VERGES MILANO, JOSEP, ES
[72] GARCIA ALONSO, FERNANDO, ES
[72] RAMENTOL MASSANA, JORDI, ES
[72] SANCHEZ GARCIA, JOSE ANGEL, ES
[72] SANZ MENENDEZ, NURIA, ES
[72] VICARIO DE LA TORRE, MARTA, ES
[71] MMC INTELLECTUAL PROPERTY INSTITUTE, S.L., ES
[85] 2021-05-25
[86] 2019-11-25 (PCT/EP2019/082425)
[87] (WO2020/109230)
[30] EP (18382851.6) 2018-11-26

[21] **3,120,921**
[13] A1

[51] **Int.Cl. D06M 11/73 (2006.01) B32B 5/02 (2006.01) B64B 1/58 (2006.01) D06M 11/76 (2006.01) D06M 15/41 (2006.01)**
[25] EN
[54] **GRAPHENE-OXIDE GRAFTED PBO (ZYLON®) FIBERS; METHOD FOR PRODUCTION AND APPLICATIONS TO AIRSHIP HULLS AND LIGHTER THAN AIR VEHICLES**
[54] **FIBRES DE PBO GREFFEES A BASE D'OXYDE DE GRAPHENE (ZYLON®) ; PROCEDE DE PRODUCTION ET APPLICATIONS A DES COQUES DE DIRIGEABLE ET A DES VEHICULES PLUS LEGERS QUE L'AIR**
[72] VESTERGAARD FRANDSEN, MIKKEL, US
[72] KIM, DAVID, US
[72] FILLETER, TOBIN, CA
[72] PARAMBATH MUNDAYODAN, SUDEEP, US
[71] SCEYE SA, CH
[85] 2021-05-25
[86] 2019-11-25 (PCT/EP2019/082458)
[87] (WO2020/109247)
[30] US (62/771,224) 2018-11-26

[21] **3,120,922**
[13] A1

[51] **Int.Cl. A61K 39/09 (2006.01) A61K 39/00 (2006.01) A61P 31/00 (2006.01)**
[25] EN
[54] **IMMUNOGENIC MULTIPLE HETERO-ANTIGEN POLYSACCHARIDE-PROTEIN CONJUGATES AND USES THEREOF**
[54] **CONJUGUES POLYSACCHARIDE-PROTEINE IMMUNOGENES A HETEROANTIGENES MULTIPLES ET LEURS UTILISATIONS**
[72] PRASAD, AVVARI KRISHNA, US
[72] GU, JIANXIN, US
[72] KIM, JIN-HWAN, US
[72] SINGH, SUDDHAM, US
[71] PFIZER INC., US
[85] 2021-05-25
[86] 2019-12-09 (PCT/IB2019/060562)
[87] (WO2020/121159)
[30] US (62/778,362) 2018-12-12
[30] US (62/778,371) 2018-12-12
[30] US (62/778,382) 2018-12-12

PCT Applications Entering the National Phase

[21] **3,120,923**
[13] A1

[51] **Int.Cl. C07K 14/50 (2006.01) A61K 48/00 (2006.01) C12N 15/86 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **FIBROBLAST GROWTH FACTOR 21 (FGF21) GENE THERAPY**

[54] **THERAPIE GENIQUE BASEE SUR LE FACTEUR DE CROISSANCE DES FIBROBLASTES 21 (FGF21)**

[72] BOSCH TUBERT, MARIA FATIMA, ES

[72] ELIAS PUIGDOMENECH, IVET, ES

[72] JIMENEZ CENZANO, VERONICA, ES

[72] RIBERA SANCHEZ, ALBERT, ES

[72] GRASS COSTA, IGNASI, ES

[71] UNIVERSITAT AUTONOMA DE BARCELONA, ES

[85] 2021-05-25

[86] 2019-11-26 (PCT/EP2019/082601)

[87] (WO2020/109314)

[30] EP (18382857.3) 2018-11-26

[21] **3,120,924**
[13] A1

[51] **Int.Cl. D21C 11/00 (2006.01) C07J 9/00 (2006.01) C11B 13/00 (2006.01) C11C 1/08 (2006.01)**

[25] EN

[54] **FRACTIONATION OF CRUDE TALL OIL**

[54] **FRACTIONNEMENT DE TALLOL BRUT**

[72] KAVAKKA, JARI, SE

[71] STORA ENSO OYJ, FI

[85] 2021-05-25

[86] 2019-12-06 (PCT/IB2019/060503)

[87] (WO2020/121140)

[30] SE (1851548-6) 2018-12-11

[21] **3,120,926**
[13] A1

[51] **Int.Cl. A61K 39/09 (2006.01) A61K 39/00 (2006.01) A61K 47/00 (2006.01)**

[25] EN

[54] **MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE VACCINE**

[54] **VACCIN CONJUGUE POLYSACCHARIDE PNEUMOCOCCIQUE-PROTEINE MULTIVALENT**

[72] BURKI, RAJENDAR, IN

[72] SRIRAMAN, RAJAN, IN

[72] MATUR, RAMESH VENKAT, IN

[72] MANTENA, NARENDER DEV, IN

[72] DATLA, MAHIMA, IN

[72] MASILAMANI, BALAMURALI, IN

[72] KANDIMALLA, VIVEK BABU, IN

[72] SANGAREDDY, VEERAPANDU, IN

[71] BIOLOGICAL E LIMITED, IN

[85] 2021-05-25

[86] 2019-10-11 (PCT/IN2019/050761)

[87] (WO2020/075201)

[30] IN (201841038835) 2018-10-12

[21] **3,120,927**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61B 18/00 (2006.01) A61F 7/12 (2006.01)**

[25] EN

[54] **ESOPHAGEAL LIQUID-SUPPLY CATHETER, AND INTERMEDIATE COMPONENT OF ESOPHAGEAL LIQUID-SUPPLY CATHETER**

[54] **CATHETER D'ALIMENTATION EN LIQUIDE □SOPHAGIEN, ET COMPOSANT INTERMEDIAIRE DE CATHETER D'ALIMENTATION EN LIQUIDE □SOPHAGIEN**

[72] YAMAMOTO, MASAHIRO, JP

[72] NAKAJIMA, HIROKI, JP

[72] IKEDA, TOMOHIKO, JP

[72] MATSUKUMA, AKINORI, JP

[72] OKADA, TATSUYA, JP

[71] TORAY INDUSTRIES, INC., JP

[85] 2021-05-25

[86] 2019-12-19 (PCT/JP2019/049815)

[87] (WO2020/130074)

[30] JP (2018-238594) 2018-12-20

[21] **3,120,928**
[13] A1

[51] **Int.Cl. B65D 1/02 (2006.01) B65D 1/46 (2006.01)**

[25] EN

[54] **SYNTHETIC RESIN CONTAINER, AND METHOD FOR PRODUCING SYNTHETIC RESIN CONTAINER**

[54] **RECIPIENT EN RESINE SYNTHETIQUE ET PROCEDE DE PRODUCTION DE RECIPIENT EN RESINE SYNTHETIQUE**

[72] YANO, NAOYUKI, JP

[72] NIIDA, KAZUNARI, JP

[72] TATENO, HIRONORI, JP

[71] YOSHINO KOGYOSYO CO., LTD., JP

[85] 2021-05-25

[86] 2019-10-07 (PCT/JP2019/039533)

[87] (WO2020/110468)

[30] JP (2018-225993) 2018-11-30

[21] **3,120,929**
[13] A1

[51] **Int.Cl. C22C 38/58 (2006.01) C21D 8/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/06 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01)**

[25] EN

[54] **HIGH STRENGTH HOT ROLLED STEEL SHEET HAVING EXCELLENT ELONGATION AND METHOD FOR MANUFACTURING SAME**

[54] **TOLE D'ACIER HAUTE RESISTANCE LAMINEE A CHAUD AYANT UN EXCELLENT ALLONGEMENT ET SON PROCEDE DE FABRICATION**

[72] BAE, JIN-HO, KR

[71] POSCO, KR

[85] 2021-05-25

[86] 2019-11-26 (PCT/KR2019/016309)

[87] (WO2020/111705)

[30] KR (10-2018-0146879) 2018-11-26

Demandes PCT entrant en phase nationale

[21] **3,120,930**
[13] A1

[51] **Int.Cl. C22C 38/58 (2006.01)**
[25] EN
[54] **HIGH STRENGTH THICK STEEL PLATE FOR LINEPIPE HAVING EXCELLENT LOW TEMPERATURE TOUGHNESS AND DUCTILITY AS WELL AS LOW YIELD RATIO, AND METHOD THEREOF**

[54] **PLAQUE D'ACIER EPAISSE A HAUTE RESISTANCE POUR CANALISATION, POSSEDANT UNE EXCELLENTE DUCTILITE ET TENACITE A BASSE TEMPERATURE AINSI QU'UN FAIBLE COEFFICIENT D'ELASTICITE, ET SON PROCEDE**

[72] BAE, JIN-HO, KR
[71] POSCO, KR
[85] 2021-05-25
[86] 2019-11-26 (PCT/KR2019/016374)
[87] (WO2020/111732)
[30] KR (10-2018-0150706) 2018-11-29

[21] **3,120,931**
[13] A1

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 8/04 (2006.01) A61K 8/73 (2006.01) A61K 8/86 (2006.01) A61K 47/14 (2017.01) A61K 47/32 (2006.01) A61K 47/38 (2006.01) A61Q 19/00 (2006.01)**

[25] EN
[54] **A METHOD OF PREPARING A GELLING AGENT, THE GELLING AGENT OBTAINED THEREBY, AND THE USE OF SAID GELLING AGENT**

[54] **PROCEDE DE PREPARATION D'UN GELIFIANT, GELIFIANT OBTENU PAR CELUI-CI ET UTILISATION DUDIT GELIFIANT**

[72] LARSEN, FINN, GB
[72] BATES, OLIVER, GB
[71] VIRAMAL LIMITED, GB
[85] 2021-05-25
[86] 2019-11-28 (PCT/EP2019/082893)
[87] (WO2020/109459)
[30] EP (18209409.4) 2018-11-30

[21] **3,120,932**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) A61K 35/407 (2015.01) A61P 1/16 (2006.01)**

[25] EN
[54] **HEPATOCYTE EXPANSION METHODS**

[54] **PROCEDES D'EXPANSION D'HEPATOCYTES**

[72] CLEVERS, JOHANNES CAROLUS, NL
[72] HU, HUILI, NL
[71] KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN, NL

[85] 2021-05-25
[86] 2019-11-26 (PCT/EP2019/082618)
[87] (WO2020/109324)
[30] GB (1819224.5) 2018-11-26

[21] **3,120,933**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/20 (2012.01) G06Q 20/40 (2012.01) G06Q 20/42 (2012.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR SECURE PRODUCT TRACKING DATA STORAGE AND VERIFICATION**

[54] **PROCEDES ET SYSTEMES DE STOCKAGE ET DE VERIFICATION DE DONNEES DE SUIVI DE PRODUIT SECURISE**

[72] COLLINS, ROBERT, IL
[72] ELDER, STEPHEN, IL
[72] FLEMING, DAVID JAMES, IL
[71] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2021-05-25
[86] 2019-10-07 (PCT/US2019/054931)
[87] (WO2020/112251)
[30] EP (18209593.5) 2018-11-30

[21] **3,120,934**
[13] A1

[51] **Int.Cl. G06F 21/44 (2013.01) G06F 21/60 (2013.01) B41J 2/175 (2006.01) G06F 13/42 (2006.01)**

[25] EN
[54] **LOGIC CIRCUITRY PACKAGE**

[54] **BOITIER DE CIRCUIT LOGIQUE**

[72] WEAVER, QUINTON B., US
[72] STUDER, ANTHONY D., US
[72] OLSEN, DAVID N., US
[72] GARDNER, JAMES MICHAEL, US
[71] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US

[85] 2021-05-25
[86] 2019-10-25 (PCT/US2019/057989)
[87] (WO2020/117393)
[30] US (PCT/US2018/063631) 2018-12-03
[30] US (PCT/US2019/026161) 2019-04-05
[30] US (PCT/US2019/026152) 2019-04-05
[30] US (PCT/US2019/026133) 2019-04-05

[21] **3,120,935**
[13] A1

[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/36 (2006.01) A61K 8/63 (2006.01) A61K 8/67 (2006.01) A61K 8/68 (2006.01) A61K 8/81 (2006.01) A61K 9/00 (2006.01) A61K 47/06 (2006.01) A61K 47/32 (2006.01) A61L 26/00 (2006.01) A61P 17/16 (2006.01) A61Q 17/00 (2006.01)**

[25] EN
[54] **SKIN PROTECTANT FILM INCLUDING SKIN HEALTH INGREDIENTS**

[54] **FILM PROTECTEUR DE LA PEAU COMPRENANT DES INGREDIENTS DE SANTE DE LA PEAU**

[72] TAYLOR, MICHAEL G., US
[71] HOLLISTER INCORPORATED, US
[85] 2021-05-25
[86] 2019-10-29 (PCT/US2019/058589)
[87] (WO2020/112289)
[30] US (62/771,925) 2018-11-27

PCT Applications Entering the National Phase

[21] **3,120,936**
[13] A1

[51] **Int.Cl. B63B 21/29 (2006.01) B63G 6/00 (2006.01)**

[25] EN

[54] **UNDERWATER VEHICLE HAVING DIRECTIONAL EFFECTOR**

[54] **VEHICULE SOUS-MARIN A EFFECTEUR DIRECTIONNEL**

[72] WILBY, ANDREW D., US

[72] MISULIA, JOESPH M., US

[71] RAYTHEON COMPANY, US

[85] 2021-05-25

[86] 2019-11-12 (PCT/US2019/060899)

[87] (WO2020/162998)

[30] US (16/204,343) 2018-11-29

[21] **3,120,938**
[13] A1

[51] **Int.Cl. A01G 25/16 (2006.01) G06Q 50/02 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ADJUSTING IRRIGATION SYSTEM SCHEDULING**

[54] **SYSTEME ET PROCEDE POUR LE REGLAGE DE PLANIFICATION DE SYSTEME D'IRRIGATION**

[72] CHARLING, KURTIS ARLAN, US

[72] HAN, CHENGCHOU JAMES, US

[71] LINDSAY CORPORATION, US

[85] 2021-05-25

[86] 2019-11-19 (PCT/US2019/062100)

[87] (WO2020/112424)

[30] US (62/771,346) 2018-11-26

[30] US (16/684,884) 2019-11-15

[21] **3,120,939**
[13] A1

[51] **Int.Cl. C01B 3/12 (2006.01) C10K 3/02 (2006.01) C25B 1/04 (2021.01)**

[25] EN

[54] **A PROCESS AND REACTOR FOR CONVERTING CARBON DIOXIDE INTO CARBON MONOXIDE**

[54] **PROCEDE ET REACTEUR POUR CONVERTIR LE DIOXYDE DE CARBONE EN MONOXYDE DE CARBONE**

[72] BALAJI, SAYEE PRASAAD, NL

[72] KLOKKENBURG, MARK, NL

[72] SCHOUWENAAR, ROBERT, NL

[72] QUEVEDO ENRIQUEZ, JOSE ATILIO, NL

[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2021-05-25

[86] 2019-11-29 (PCT/EP2019/083047)

[87] (WO2020/114899)

[30] EP (18209749.3) 2018-12-03

[21] **3,120,940**
[13] A1

[51] **Int.Cl. C07H 15/234 (2006.01) A61K 31/7036 (2006.01) A61P 31/00 (2006.01)**

[25] EN

[54] **NOVEL ANTIBACTERIAL 3"-DERIVATIVES OF 4,6-DISUBSTITUTED 2,5-DIDEOXYSTREPTAMINE AMINOGLYCOSIDE ANTIBIOTICS**

[54] **NOUVEAUX DERIVES 3" ANTIBACTERIENS D'ANTIBIOTIQUES A BASE D'AMINOGLYCOSIDE 2,5-DIDESOXYSTREPTAMINE 4,6-DISUBSTITUES**

[72] BASTIAN, ANDREAS ALEXANDER, NL

[72] BASTIAN, MARIA, NL

[71] AGILEBIOTICS B.V., NL

[85] 2021-05-25

[86] 2019-12-05 (PCT/EP2019/083784)

[87] (WO2020/115190)

[30] EP (18210470.3) 2018-12-05

[21] **3,120,941**
[13] A1

[51] **Int.Cl. C07H 19/073 (2006.01) A61K 31/7068 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ORALLY ACTIVE PRODRUG OF GEMCITABINE**

[54] **PROMEDICAMENT DE GEMCITABINE ACTIF PAR VOIE ORALE**

[72] LI, XIANG, US

[72] LI, BING YING, US

[72] CHENG, STARR SING CHUNG, US

[72] WANG, ANDREW, US

[71] TNT MEDICAL CORPORATION, CH

[85] 2021-05-25

[86] 2019-11-22 (PCT/US2019/062747)

[87] (WO2020/107013)

[30] US (62/771,100) 2018-11-25

[21] **3,120,942**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A61K 35/747 (2015.01) A23L 33/135 (2016.01) A23L 33/21 (2016.01) A23L 3/44 (2006.01)**

[25] EN

[54] **PROBIOTICS FOR COGNITIVE AND MENTAL HEALTH**

[54] **PROBIOTIQUES POUR LA SANTE MENTALE ET COGNITIVE**

[72] LEHTINEN, MARKUS, FI

[72] MAO, YUEJIAN, CN

[72] STENMAN, LOTTA, FI

[71] DUPONT NUTRITION BIOSCIENCES APS, DK

[85] 2021-05-25

[86] 2019-12-05 (PCT/EP2019/083816)

[87] (WO2020/115206)

[30] CN (PCT/CN2018/119485) 2018-12-06

Demandes PCT entrant en phase nationale

[21] **3,120,943**
[13] A1

[51] **Int.Cl. F16J 15/3208 (2016.01) F16J 15/3244 (2016.01) F16J 15/00 (2006.01)**

[25] EN

[54] **SEAL ASSEMBLY WITH ANTI-ROTATION AND STABILITY FEATURES**

[54] **ENSEMBLE JOINT AYANT DES CARACTERISTIQUES ANTI-ROTATION ET DE STABILITE**

[72] RICHIE, AARON PAUL, US

[72] DIETLE, LANNIE LAROY, US

[72] GOBELI, JEFFREY D., US

[71] KALSI ENGINEERING, INC., US

[85] 2021-05-25

[86] 2019-11-22 (PCT/US2019/062843)

[87] (WO2020/112558)

[30] US (62/917,187) 2018-11-26

[30] US (62/913,225) 2019-10-10

[30] US (16/692,632) 2019-11-22

[21] **3,120,944**
[13] A1

[51] **Int.Cl. A61B 5/05 (2021.01) A61B 5/349 (2021.01) A61B 5/369 (2021.01) A61B 5/389 (2021.01) A61B 5/145 (2006.01)**

[25] EN

[54] **MICRO-COHERENCE NETWORK STRENGTH AND DEEP BEHAVIOR MODIFICATION OPTIMIZATION APPLICATION**

[54] **INTENSITE DE RESEAU A MICROCOHERENCE ET APPLICATION D'OPTIMISATION DE MODIFICATION DE COMPORTEMENT PROFOND**

[72] HICKEY, MICHAEL PETER, US

[71] WELLNESS IP, INC., US

[85] 2021-05-25

[86] 2019-11-25 (PCT/US2019/063013)

[87] (WO2020/107034)

[30] US (62/770,887) 2018-11-23

[30] US (62/770,940) 2018-11-23

[30] US (62/770,951) 2018-11-23

[21] **3,120,945**
[13] A1

[51] **Int.Cl. G01S 7/481 (2006.01) G01S 13/931 (2020.01) G01S 7/02 (2006.01) G01S 7/40 (2006.01) G01S 7/497 (2006.01) G01S 7/52 (2006.01)**

[25] EN

[54] **DE-ICING SYSTEM FOR A SENSOR**

[54] **SYSTEME DE DEGIVRAGE POUR UN CAPTEUR**

[72] HALMOS, DOMOKOS, DE

[72] FRICK, SIMON, DE

[72] SLANGEN, DANIEL, DE

[72] KIESEL, RAINER, DE

[72] SCHREIBMULLER, NICOLAS, DE

[72] HAKSPIEL, STEFAN, DE

[72] PFEIFFER, DANIEL, DE

[72] NUSSER, TOBIAS, DE

[72] REICHERT, HEINZ, DE

[72] SEGLER, DANIEL, DE

[72] BIRKENMAIER, GERHARD, DE

[71] IBEO AUTOMOTIVE SYSTEMS GMBH, DE

[85] 2021-05-25

[86] 2019-12-06 (PCT/EP2019/084068)

[87] (WO2020/120332)

[30] DE (10 2018 221 277.5) 2018-12-10

[21] **3,120,946**
[13] A1

[51] **Int.Cl. A47D 13/02 (2006.01)**

[25] EN

[54] **ADJUSTABLE CHILD CARRIER WITH ENHANCED FREEDOM OF MOVEMENT**

[54] **PORTE-BEBE REGLABLE A LIBERTE DE MOUVEMENT AMELIOREE**

[72] TELFORD, RODNEY V., US

[71] THE ERGO BABY CARRIER, INC., US

[85] 2021-05-25

[86] 2019-11-25 (PCT/US2019/063052)

[87] (WO2020/112660)

[30] US (62/771,450) 2018-11-26

[30] US (62/873,549) 2019-07-12

[21] **3,120,947**
[13] A1

[51] **Int.Cl. G06T 15/04 (2011.01) G06T 17/20 (2006.01)**

[25] EN

[54] **A SYSTEM FOR OPTIMIZING A 3D MESH**

[54] **SYSTEME D'OPTIMISATION D'UN MAILLAGE 3D**

[72] JORIS, MARTIJN, BE

[72] DE DEKEN, OLIVIER, BE

[72] VAN DEN BERGHE, SAM, BE

[71] TWIKIT NV, BE

[85] 2021-05-25

[86] 2019-12-12 (PCT/EP2019/084953)

[87] (WO2020/120698)

[30] EP (18212106.1) 2018-12-12

[21] **3,120,948**
[13] A1

[51] **Int.Cl. A61C 17/16 (2006.01) A46B 15/00 (2006.01) A61B 5/00 (2006.01) A61C 19/04 (2006.01)**

[25] EN

[54] **HAND-HELD DEVICE FOR FLUORESCENCE EXCITATION AND FOR IRRADIATING MICROORGANISMS IN THE MOUTH AND THROAT**

[54] **APPAREIL PORTATIF PERMETTANT L'EXCITATION DE FLUORESCENCE ET L'IRRADIATION DE MICRO-ORGANISMES DANS LA BOUCHE ET LA GORGE**

[72] KONIG, KARSTEN, DE

[71] KONIG, KARSTEN, DE

[85] 2021-05-25

[86] 2020-01-07 (PCT/EP2020/050222)

[87] (WO2020/144187)

[30] DE (10 2019 100 295.8) 2019-01-08

PCT Applications Entering the National Phase

[21] **3,120,949**
[13] A1

[51] **Int.Cl. A61K 33/14 (2006.01) A61K 31/14 (2006.01) A61K 31/205 (2006.01) A61K 31/7004 (2006.01) A61K 31/7016 (2006.01) A61P 39/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR CLEANING, DECONTAMINATION AND TREATING SUBJECTS EXPOSED TO CHEMICAL IRRITANTS**

[54] **COMPOSITIONS ET PROCEDES DE NETTOYAGE, DE DECONTAMINATION ET DE TRAITEMENT DE SUJETS EXPOSES A DES IRRITANTS CHIMIQUES**

[72] MEMOLI, PATRICK, US
[72] GRAHAM, TROY, US
[71] REFLEX RED STORM, LLC., US
[85] 2021-05-07
[86] 2019-12-05 (PCT/US2019/064682)
[87] (WO2020/118055)
[30] US (62/775,959) 2018-12-06

[21] **3,120,952**
[13] A1

[51] **Int.Cl. C08F 290/04 (2006.01) H01M 8/0284 (2016.01) H01M 8/10 (2016.01)**

[25] EN

[54] **CURABLE RESIN COMPOSITION, FUEL CELL, AND SEALING METHOD**

[54] **COMPOSITION DE RESINE DURCISSABLE, PILE A COMBUSTIBLE, ET PROCEDE D'ETANCHEITE**

[72] KOYAMA, AKIHIRO, JP
[72] YAMADA, KOJI, JP
[72] FUKUMOTO, MASAYUKI, JP
[72] SOGA, TETSUNORI, JP
[71] THREEBOND CO., LTD., JP
[85] 2021-05-25
[86] 2019-10-17 (PCT/JP2019/040982)
[87] (WO2020/137111)
[30] JP (2018-240570) 2018-12-25

[21] **3,120,953**
[13] A1

[51] **Int.Cl. B22F 1/00 (2006.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B22F 1/02 (2006.01) B22F 3/105 (2006.01) B22F 3/16 (2006.01)**

[25] EN

[54] **COPPER POWDER FOR ADDITIVE MANUFACTURING, METHOD FOR PRODUCING COPPER POWDER FOR ADDITIVE MANUFACTURING, METHOD FOR PRODUCING ADDITIVE MANUFACTURED PRODUCT, AND ADDITIVE MANUFACTURED PRODUCT**

[54] **POUDRE DE CUIVRE POUR IMPRESSION 3D, PROCEDE DE PRODUCTION DE POUDRE DE CUIVRE POUR IMPRESSION 3D, PROCEDE DE PRODUCTION D'ARTICLE IMPRIME 3D, ET ARTICLE IMPRIME 3D**

[72] KATAYAMA, DAISUKE, JP
[72] NAKAZAWA, MASATO, JP
[72] IGAMI, KAORI, JP
[72] SUGAHARA, TAKAHIRO, JP
[72] NAKAMOTO, TAKAYUKI, JP
[72] MIKI, TAKAO, JP
[72] UCHIDA, SOHEI, JP
[71] MEC COMPANY., LTD., JP
[71] OSAKA RESEARCH INSTITUTE OF INDUSTRIAL SCIENCE AND TECHNOLOGY, JP
[85] 2021-05-25
[86] 2019-11-29 (PCT/JP2019/046833)
[87] (WO2020/116349)
[30] JP (2018-227428) 2018-12-04
[30] JP (2019-160474) 2019-09-03

[21] **3,120,954**
[13] A1

[51] **Int.Cl. B01D 1/00 (2006.01) B01D 3/06 (2006.01) B01D 17/02 (2006.01)**

[25] EN

[54] **A SEPARATING DEVICE AND PROCESS FOR SEPARATING VOLATILE COMPOUNDS FROM A POLYMER REACTION MIXTURE**

[54] **DISPOSITIF ET PROCESSUS DE SEPARATION POUR SEPARER DES COMPOSES VOLATILS D'UN MELANGE REACTIONNEL POLYMERE**

[72] AL-HAJ ALI, MOHAMMAD, FI
[72] ALASTALO, KAUNO, FI
[71] BOREALIS AG, AT
[85] 2021-05-25
[86] 2020-01-24 (PCT/EP2020/051804)
[87] (WO2020/152348)
[30] EP (19153675.4) 2019-01-25

[21] **3,120,955**
[13] A1

[51] **Int.Cl. B01J 20/20 (2006.01) B01D 53/02 (2006.01) B01D 53/52 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01)**

[25] EN

[54] **PELLETIZED ACTIVATED CARBON AND METHODS OF PRODUCTION**

[54] **CHARBON ACTIF MIS EN PASTILLES ET PROCEDES D'UTILISATION**

[72] SAMANTA, SUSNATA, US
[72] KUIL, MARK, NL
[71] CABOT CORPORATION, US
[85] 2021-05-25
[86] 2019-11-26 (PCT/US2019/063147)
[87] (WO2020/112707)
[30] US (62/773,103) 2018-11-29

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[21] **3,120,956**
[13] A1

[51] **Int.Cl. A23L 2/66 (2006.01) A23L 11/00 (2021.01) A23L 33/18 (2016.01) A23L 33/185 (2016.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01) A23J 3/34 (2006.01)**

[25] EN

[54] **SOLUBLE LEGUME PROTEIN**

[54] **PROTEINE DE LEGUMINEUSE SOLUBLE**

[72] VENTUREIRA, JORGE LUIS, FR

[71] ROQUETTE FRERES, FR

[85] 2021-05-25

[86] 2019-11-29 (PCT/FR2019/052843)

[87] (WO2020/109741)

[30] FR (18 72157) 2018-11-30

[21] **3,120,957**
[13] A1

[51] **Int.Cl. H01M 8/1023 (2016.01) H01M 8/1039 (2016.01) C08J 5/22 (2006.01)**

[25] EN

[54] **PHOSPHATE ANION-QUATERNARY AMMONIUM ION PAIR COORDINATED POLYMER MEMBRANES**

[54] **MEMBRANES POLYMERES COORDONNEES A PAIRES D'IONS ANION PHOSPHATE-AMMONIUM QUATERNAIRE**

[72] BAE, CHULSUNG, US

[72] TIAN, DING, US

[71] RENSSELSER POLYTECHNIC INSTITUTE, US

[85] 2021-05-25

[86] 2019-11-26 (PCT/US2019/063173)

[87] (WO2020/112721)

[30] US (62/771,372) 2018-11-26

[30] US (62/940,084) 2019-11-25

[21] **3,120,962**
[13] A1

[51] **Int.Cl. A47G 1/17 (2006.01) A47B 96/06 (2006.01) A47G 1/16 (2006.01) A47G 1/20 (2006.01) A47G 1/22 (2006.01) A47K 10/10 (2006.01) A47H 1/104 (2006.01) B25H 3/04 (2006.01) B62H 3/12 (2006.01)**

[25] EN

[54] **MOUNTING DEVICE**

[54] **DISPOSITIF DE FIXATION**

[72] WOOLMAN, DANIEL, GB

[72] WOOLMAN, STUART, US

[71] TPL IP HOLDINGS LIMITED, GB

[85] 2021-05-25

[86] 2019-01-14 (PCT/GB2019/050085)

[87] (WO2019/141969)

[30] GB (1800686.6) 2018-01-16

[30] GB (1807878.2) 2018-05-15

[30] GB (1812967.6) 2018-08-09

[21] **3,120,964**
[13] A1

[51] **Int.Cl. E21B 43/267 (2006.01) E21B 43/22 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **SYSTEM, METHOD, AND COMPOSITION FOR CONTROLLING FRACTURE GROWTH**

[54] **SYSTEME, PROCEDE ET COMPOSITION POUR COMMANDER UNE CROISSANCE DE FRACTURE**

[72] COOK, ROBERT LANCE, US

[71] METIS ENERGY LLC, US

[85] 2021-05-25

[86] 2019-11-26 (PCT/US2019/063378)

[87] (WO2020/112857)

[30] US (62/771,501) 2018-11-26

[21] **3,120,967**
[13] A1

[51] **Int.Cl. G01N 1/40 (2006.01) B01D 57/02 (2006.01) B01L 3/00 (2006.01)**

[25] EN

[54] **BIOLOGICAL SAMPLE PREPARATION USING ELECTRIC FIELDS**

[54] **PREPARATION D'ECHANTILLON BIOLOGIQUE A L'AIDE DE CHAMPS ELECTRIQUES**

[72] NILSSON, MICHAEL, US

[72] SCHOENBRUNNER, ERHARD RALF, US

[71] PERKINELMER HEALTH SCIENCES, INC., US

[85] 2021-05-25

[86] 2019-11-26 (PCT/US2019/063412)

[87] (WO2020/112879)

[30] US (62/773,927) 2018-11-30

[21] **3,120,982**
[13] A1

[51] **Int.Cl. A61G 13/00 (2006.01) A61G 13/12 (2006.01)**

[25] EN

[54] **A SYSTEM FOR POSITIONING AND RESTRAINING AT LEAST A PART OF A HAND**

[54] **SYSTEME DE POSITIONNEMENT ET DE RETENUE D'AU MOINS UNE PARTIE DE MAIN**

[72] LEWOLD, STEFAN, SE

[71] MANUFIX SCANDINAVIA AB, SE

[85] 2021-05-21

[86] 2019-10-09 (PCT/SE2019/050987)

[87] (WO2020/106196)

[30] SE (1851443-0) 2018-11-22

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<p>[21] 3,060,783 [13] A1</p> <p>[51] Int.Cl. G06Q 50/30 (2012.01) H04W 4/42 (2018.01)</p> <p>[25] EN</p> <p>[54] SYNCHRONIZED TRANSIT BUS LOOP SYSTEM</p> <p>[54] SYSTEME DE PARCOURS D'AUTOBUS SYNCHRONISES</p> <p>[72] NAGRA, GURPREET S., CA</p> <p>[71] NAGRA, GURPREET S., CA</p> <p>[22] 2019-10-31</p> <p>[41] 2021-04-30</p>	<p>[21] 3,119,152 [13] A1</p> <p>[25] EN</p> <p>[54] METHOD FOR PRODUCING A PRINTED CONCRETE ELEMENT</p> <p>[54] PROCEDE DE FABRICATION D'UN ELEMENT EN BETON IMPRIME</p> <p>[72] METTEN, MICHAEL, DE</p> <p>[72] MUTH, ALEXANDRA, DE</p> <p>[72] SEPEUR, STEFAN, DE</p> <p>[72] VOLMER, GUIDO, DE</p> <p>[71] METTEN STEIN+DESIGN GMBH & CO. KG, DE</p> <p>[71] NANO-X GMBH, DE</p> <p>[22] 2018-04-04</p> <p>[41] 2018-12-06</p> <p>[62] 3,065,647</p> <p>[30] DE (DE 10 2017 005 280.8) 2017-06-02</p>	<p>[21] 3,119,205 [13] A1</p> <p>[51] Int.Cl. G03G 15/06 (2006.01) G03G 15/04 (2006.01)</p> <p>[25] EN</p> <p>[54] PROCESS CARTRIDGE, ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS, AND ELECTROPHOTOGRAPHIC PHOTSENSITIVE DRUM UNIT</p> <p>[54] CARTOUCHE DE TRAITEMENT, APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE, ET UNITE DE TAMBOUR PHOTSENSIBLE ELECTROPHOTOGRAPHIQUE</p> <p>[72] HISANO, MASATO, JP</p> <p>[72] MIYABE, SHIGEO, JP</p> <p>[72] MORIOKA, MASANARI, JP</p> <p>[72] UENO, TAKAHITO, JP</p> <p>[71] CANON KABUSHIKI KAISHA, JP</p> <p>[22] 2007-12-25</p> <p>[41] 2008-07-03</p> <p>[62] 2,670,502</p> <p>[30] JP (2006-346190) 2006-12-22</p> <p>[30] JP (2007-042665) 2007-02-22</p> <p>[30] JP (2007-330303) 2007-12-21</p>
<p>[21] 3,116,523 [13] A1</p> <p>[51] Int.Cl. F21V 21/04 (2006.01) F21K 9/232 (2016.01) F21S 8/02 (2006.01) F21V 29/77 (2015.01)</p> <p>[25] EN</p> <p>[54] LIGHT FIXTURE INSTALLATION APPARATUS AND METHODS</p> <p>[54] APPAREIL ET PROCEDES D'INSTALLATION DE LUMINAIRES</p> <p>[72] WARNER, BENJAMIN J., US</p> <p>[72] MUNDELL, BRANDON S., US</p> <p>[71] ABL IP HOLDING LLC, US</p> <p>[22] 2019-09-20</p> <p>[41] 2020-05-08</p> <p>[62] 3,056,214</p> <p>[30] US (16/184,324) 2018-11-08</p> <p>[30] US (16/184,225) 2018-11-08</p>	<p>[21] 3,119,166 [13] A1</p> <p>[51] Int.Cl. E21B 47/12 (2012.01) E21B 47/13 (2012.01) E21B 47/14 (2006.01) E21B 47/16 (2006.01) E21B 47/18 (2012.01) H04L 7/00 (2006.01) H04Q 9/04 (2006.01)</p> <p>[25] EN</p> <p>[54] DUAL MODE TELEMETRY</p> <p>[54]</p> <p>[72] WHITE, MATTHEW, US</p> <p>[72] WHITACRE, TIMOTHY, US</p> <p>[72] GLEASON, BRIAN, US</p> <p>[72] YOUSSEF, MOHAMED, US</p> <p>[71] SCIENTIFIC DRILLING INTERNATIONAL, INC., US</p> <p>[22] 2016-01-30</p> <p>[41] 2016-08-04</p> <p>[62] 2,974,724</p> <p>[30] US (62/110,109) 2015-01-30</p>	<p>[21] 3,119,206 [13] A1</p> <p>[51] Int.Cl. E21B 47/12 (2012.01) E21B 47/13 (2012.01) E21B 47/14 (2006.01) E21B 47/18 (2012.01) H04L 7/00 (2006.01) H04Q 9/04 (2006.01)</p> <p>[25] EN</p> <p>[54] COLLABORATIVE TELEMETRY</p> <p>[54] TELEMETRIE COLLABORATIVE</p> <p>[72] WHITE, MATTHEW, US</p> <p>[72] WHITACRE, TIMOTHY, US</p> <p>[72] GLEASON, BRIAN, US</p> <p>[72] YOUSSEF, MOHAMED, US</p> <p>[71] SCIENTIFIC DRILLING INTERNATIONAL, INC., US</p> <p>[22] 2016-01-30</p> <p>[41] 2016-08-04</p> <p>[62] 2,974,724</p> <p>[30] US (62/110,109) 2015-01-30</p>

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[21] **3,119,212**
[13] A1

[51] **Int.Cl. G03G 21/18 (2006.01)**
[25] EN
[54] **PROCESS CARTRIDGE,
ELECTROPHOTOGRAPHIC
IMAGE FORMING APPARATUS,
AND ELECTROPHOTOGRAPHIC
PHOTOSENSITIVE DRUM UNIT**
[54] **CARTOUCHE DE TRAITEMENT,
APPAREIL DE FORMATION
D'IMAGE
ELECTROPHOTOGRAPHIQUE,
ET UNITE DE TAMBOUR
PHOTOSENSIBLE
ELECTROPHOTOGRAPHIQUE**
[72] UENO, TAKAHITO, JP
[72] MIYABE, SHIGEO, JP
[72] HISANO, MASATO, JP
[72] MORIOKA, MASANARI, JP
[71] CANON KABUSHIKI KAISHA, JP
[22] 2007-12-25
[41] 2008-07-03
[62] 2,670,502
[30] JP (2006-346190) 2006-12-22
[30] JP (2007-042665) 2007-02-22
[30] JP (2007-330303) 2007-12-21

[21] **3,119,253**
[13] A1

[51] **Int.Cl. A21B 1/26 (2006.01) A21B 1/02
(2006.01) A21B 1/24 (2006.01) F24C
15/32 (2006.01)**
[25] EN
[54] **COMPACT OVEN
FOUR COMPACT**
[72] MCKEE, PHILIP R., US
[72] JOHNSON, ALEX, US
[72] VANLANEN, LEE THOMAS, US
[71] OVENTION, INC., US
[22] 2014-04-16
[41] 2014-11-13
[62] 2,910,266
[30] US (13/888,151) 2013-05-06

[21] **3,119,254**
[13] A1

[51] **Int.Cl. F24H 3/06 (2006.01) F24H 9/20
(2006.01)**
[25] EN
[54] **FORCED AIR HEATER**
[54]
[72] POURVASH, MOJTABA, CA
[71] CAFRAMO LIMITED, CA
[22] 2014-07-30
[41] 2015-01-30
[62] 2,858,037
[30] US (61/859,965) 2013-07-30

[21] **3,119,258**
[13] A1

[51] **Int.Cl. A61K 31/485 (2006.01) A61K
9/00 (2006.01) A61K 9/70 (2006.01)
A61P 25/36 (2006.01)**
[25] EN
[54] **ABUSE-RESISTANT
MUCOADHESIVE DEVICES FOR
DELIVERY OF BUPRENORPHINE**
[54] **DISPOSITIFS MUCOADHESIFS
ANTI-ABUS DESTINES A
ADMINISTRER DE LA
BUPRENORPHINE**
[72] FINN, ANDREW, US
[72] VASISHT, NIRAJ, US
[71] BIODELIVERY SCIENCES
INTERNATIONAL, INC., US
[22] 2012-08-20
[41] 2013-02-21
[62] 2,845,634
[30] US (61/525,094) 2011-08-18

[21] **3,119,274**
[13] A1

[51] **Int.Cl. G03G 15/04 (2006.01) G03G
15/06 (2006.01)**
[25] EN
[54] **PROCESS CARTRIDGE,
ELECTROPHOTOGRAPHIC
IMAGE FORMING APPARATUS,
AND ELECTROPHOTOGRAPHIC
PHOTOSENSITIVE DRUM UNIT**
[54] **CARTOUCHE DE TRAITEMENT,
APPAREIL DE FORMATION
D'IMAGE
ELECTROPHOTOGRAPHIQUE,
ET UNITE DE TAMBOUR
PHOTOSENSIBLE
ELECTROPHOTOGRAPHIQUE**
[72] UENO, TAKAHITO, JP
[72] MIYABE, SHIGEO, JP
[72] MORIOKA, MASANARI, JP
[72] HISANO, MASATO, JP
[71] CANON KABUSHIKI KAISHA, JP
[22] 2007-12-25
[41] 2008-07-03
[62] 2,670,502
[30] JP (2006-346190) 2006-12-22
[30] JP (2007-042665) 2007-02-22
[30] JP (2007-330303) 2007-12-21

[21] **3,119,279**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) A01N
63/50 (2020.01) A01H 5/00 (2018.01)
A01P 5/00 (2006.01) C07K 14/415
(2006.01) C12N 5/04 (2006.01) C12N
5/10 (2006.01) C12N 15/29 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS
FOR INCREASING NEMATODE
RESISTANCE IN PLANTS**
[54] **COMPOSITIONS ET METHODES
POUVANT AUGMENTER LA
RESISTANCE DES PLANTES AUX
NEMATODES**
[72] SHALATIN, DROR, IL
[72] KARCHI, HAGAI, IL
[72] HUANG, XIANG, US
[71] EVOGENE LTD., IL
[71] SYNGENTA PARTICIPATIONS AG,
CH
[22] 2012-11-20
[41] 2013-05-30
[62] 2,854,363
[30] US (61/562,060) 2011-11-21
[30] US (61/684,234) 2012-08-17

[21] **3,119,280**
[13] A1

[51] **Int.Cl. A61F 2/06 (2013.01) A61B 5/02
(2006.01) A61B 17/12 (2006.01)**
[25] EN
[54] **A DEVICE FOR TREATMENT OF
ANEURYSM**
[54] **DISPOSITIF DE TRAITEMENT
D'UN ANEURISME**
[72] FORSELL, PETER, CH
[71] IMPLANTICA PATENT LTD., MT
[22] 2008-10-10
[41] 2009-04-16
[62] 2,739,952
[30] US (60/960,716) 2007-10-11
[30] US (60/960,715) 2007-10-11

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[21] **3,119,398**
[13] A1

[25] EN
[54] **AERIAL LAUNCH AND/OR RECOVERY FOR UNMANNED AIRCRAFT, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **LANCEMENT ET RECUPERATION AERIENS D'UN AERONEF SANS PILOTE, ET SYSTEMES ET METHODES ASSOCIES**
[72] HAYES, ANDREW, US
[72] GOODRICH, WAYNE, US
[72] MCGREW, JAMES, US
[72] DAVIDSON, DARCY, JR., US
[72] GUTHRIE, CHARLIE, US
[72] KUNZ, PETER, US
[72] RYSDYK, ROLF, US
[72] KNAPP, JEFFREY, US
[72] SCHRICK, BRADLEY, US
[71] INSITU, INC. (A SUBSIDIARY OF THE BOEING COMPANY), US
[22] 2016-09-30
[41] 2017-04-02
[62] 2,943,936
[30] US (62/236824) 2015-10-02
[30] US (62/311773) 2016-03-22
[30] US (15/269597) 2016-09-19

[21] **3,119,411**
[13] A1

[51] **Int.Cl. A61K 8/9789 (2017.01) A61K 8/9783 (2017.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **TOPICAL SKIN CARE FORMULATIONS COMPRISING PLANT EXTRACTS**
[54] **FORMULATIONS DE SOIN DE LA PEAU TOPIQUE RENFERMANT DES EXTRAITS DE PLANTE**
[72] FLORENCE, TIFFANY, US
[72] GAN, DAVID, US
[72] HINES, MICHELLE, US
[71] MARY KAY INC., US
[22] 2012-04-05
[41] 2012-10-11
[62] 3,048,258
[30] US (61/472,461) 2011-04-06

[21] **3,119,414**
[13] A1

[51] **Int.Cl. A61M 11/04 (2006.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01) A61M 15/00 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE**
[72] BUCHBERGER, HELMUT, AT
[71] NICOVENTURES TRADING LIMITED, GB
[22] 2015-07-31
[41] 2016-02-18
[62] 2,957,478
[30] GB (1414331.7) 2014-08-13

[21] **3,119,461**
[13] A1

[51] **Int.Cl. G03G 15/06 (2006.01) G03G 15/04 (2006.01)**
[25] EN
[54] **PROCESS CARTRIDGE, ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS, AND ELECTROPHOTOGRAPHIC PHOTSENSITIVE DRUM UNIT**
[54] **CARTOUCHE DE TRAITEMENT, APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE, ET UNITE DE TAMBOUR PHOTOSENSIBLE**
[54] **CARTOUCHE DE TRAITEMENT, APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE, ET UNITE DE TAMBOUR PHOTOSENSIBLE**
[72] UENO, TAKAHITO, JP
[72] MIYABE, SHIGEO, JP
[72] MORIOKA, MASANARI, JP
[72] HISANO, MASATO, JP
[71] CANON KABUSHIKI KAISHA, JP
[22] 2007-12-25
[41] 2008-07-03
[62] 2,670,502
[30] JP (2006-346190) 2006-12-22
[30] JP (2007-042665) 2007-02-22
[30] JP (2007-330303) 2007-12-21

[21] **3,119,466**
[13] A1

[51] **Int.Cl. G03G 15/06 (2006.01) G03G 15/04 (2006.01)**
[25] EN
[54] **PROCESS CARTRIDGE, ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS, AND ELECTROPHOTOGRAPHIC PHOTSENSITIVE DRUM UNIT**
[54] **CARTOUCHE DE TRAITEMENT, APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE, ET UNITE DE TAMBOUR PHOTOSENSIBLE**
[54] **CARTOUCHE DE TRAITEMENT, APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE, ET UNITE DE TAMBOUR PHOTOSENSIBLE**
[72] UENO, TAKAHITO, JP
[72] MIYABE, SHIGEO, JP
[72] MORIOKA, MASANARI, JP
[72] HISANO, MASATO, JP
[71] CANON KABUSHIKI KAISHA, JP
[22] 2007-12-25
[41] 2008-07-03
[62] 2,670,502
[30] JP (2006-346190) 2006-12-22
[30] JP (2007-042665) 2007-02-22
[30] JP (2007-330303) 2007-12-21

[21] **3,119,474**
[13] A1

[51] **Int.Cl. A23F 5/00 (2006.01)**
[25] EN
[54] **COFFEE PAD FOR USE IN A COFFEE MACHINE.**
[54] **DOSETTE DE CAFE A UTILISER DANS UNE MACHINE A CAFE**
[72] BROUWER, GUSTAAF FRANS, NL
[72] DE GRAAF, GERBRAND KRISTIAAN, NL
[72] MOORMAN, CHRISTIAAN J. M., NL
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL
[22] 2014-04-03
[41] 2014-10-09
[62] 2,908,570
[30] NL (2010560) 2013-04-03

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[21] **3,119,477**
[13] A1

[51] **Int.Cl. E02D 3/08 (2006.01) E02D 3/02 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR COMPACTING SOIL AND GRANULAR MATERIALS**
[54] **PROCEDES ET APPAREILS DE COMPACTAGE DE SOL ET DE MATIERES GRANULEUSES**
[72] WHITE, DAVID J., US
[72] WISSMANN, KORD J., US
[71] GEOPIER FOUNDATION COMPANY, INC., US
[22] 2014-09-05
[41] 2015-03-12
[62] 2,922,377
[30] US (61/873,993) 2013-09-05

[21] **3,119,487**
[13] A1

[51] **Int.Cl. B01D 53/047 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SEPARATING FLUIDS AND CREATING MAGNETIC FIELDS**
[54] **SYSTEME ET PROCEDE DE SEPARATION DE FLUIDES ET DE CREATION DE CHAMPS MAGNETIQUES**
[72] IRVIN, WHITAKER BEN, SR., US
[71] QWTIP LLC, US
[22] 2011-08-24
[41] 2012-03-01
[62] 2,809,446
[30] US (61/376,438) 2010-08-24
[30] US (13/213,452) 2011-08-19

[21] **3,119,491**
[13] A1

[51] **Int.Cl. H01M 50/403 (2021.01) H01M 50/411 (2021.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **ELECTRODE RECOUVERTE D'UN FILM OBTENU A PARTIR D'UNE SOLUTION AQUEUSE COMPORTANT UN LIANT SOLUBLE DANS L'EAU, SON PROCEDE DE FABRICATION ET SES UTILISATIONS**
[54] **ELECTRODE COATED WITH A FILM OBTAINED FROM AN AQUEOUS SOLUTION COMPRISING A WATER SOLUBLE BINDER, PRODUCTION METHOD THEREOF AND USES OF SAME**
[72] ARMAND, MICHEL, FR
[72] CHAREST, PATRICK, CA
[72] DUPUIS, ELISABETH, CA
[72] GUERFI, ABDELBAST, CA
[72] PERRIER, MICHEL, CA
[72] ZAGHIB, KARIM, CA
[71] HYDRO-QUEBEC, CA
[22] 2003-11-13
[41] 2004-05-27
[62] 2,503,893
[30] CA (2,411,695) 2002-11-13

[21] **3,119,498**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6876 (2018.01) A61K 39/395 (2006.01) A61P 7/06 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING HEPICIDIN-MEDIATED DISORDERS**
[54] **METHODES DE TRAITEMENT DE TROUBLES MEDIES PAR L'HEPCIDINE**
[72] KAKKAR, RAHUL, US
[72] DEVALARAJA, MADHAV N., US
[72] ESCOTT, KATHERINE JANE, US
[71] MEDIMMUNE LIMITED, GB
[22] 2016-07-28
[41] 2017-02-09
[62] 2,991,637
[30] US (62/199,434) 2015-07-31
[30] US (62/268,788) 2015-12-17

[21] **3,119,508**
[13] A1

[25] EN
[54] **PLATE PACKAGE, PLATE AND HEAT EXCHANGER DEVICE**
[54] **GARNISSAGE A PLAQUE, PLAQUE ET DISPOSITIF ECHANGEUR DE CHALEUR**
[72] STROMER, FREDRIK, SE
[72] SKOGLOSA, ANDERS, SE
[71] ALFA LAVAL CORPORATE AB, SE
[22] 2018-02-15
[41] 2018-09-13
[62] 3,049,092
[30] EP (17160262.6) 2017-03-10

[21] **3,119,515**
[13] A1

[51] **Int.Cl. A61M 5/172 (2006.01) G16H 20/17 (2018.01) A61M 5/142 (2006.01) A61M 5/145 (2006.01)**
[25] EN
[54] **METHODS FOR OPERATING MODE TRANSITIONS AND RELATED INFUSION DEVICES AND SYSTEMS**
[54] **PROCEDES DE TRANSITIONS DE MODES DE FONCTIONNEMENT, ET DISPOSITIFS ET SYSTEMES DE PERFUSION ASSOCIES**
[72] MONIRABBASI, SALMAN, US
[72] LINTEREUR, LOUIS J., US
[72] YAN, JIN, US
[72] TORRES, LINDA I., US
[71] MEDTRONIC MINIMED, INC., US
[22] 2015-11-25
[41] 2016-06-09
[62] 2,969,218
[30] US (14/561,133) 2014-12-04

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[21] **3,119,520**
[13] A1

[25] EN
[54] **FAN COIL APPARATUS INCLUDING A HUMIDIFICATION UNIT AND A HUMIDIFICATION UNIT**
[54] **APPAREIL DE TYPE VENTIL-CONVECTEUR COMPRENANT UNE UNITE D'HUMIDIFICATION ET UNITE D'HUMIDIFICATION**
[72] CONRAD, WAYNE ERNEST, CA
[71] OMACHRON INTELLECTUAL PROPERTY INC., CA
[22] 2017-11-17
[41] 2018-06-21
[62] 3,045,523
[30] US (15/382,350) 2016-12-16
[30] US (15/382,314) 2016-12-16
[30] US (15/382,226) 2016-12-16
[30] US (15/382,162) 2016-12-16
[30] US (15/382,064) 2016-12-16
[30] US (15/381,959) 2016-12-16

[21] **3,119,524**
[13] A1

[51] **Int.Cl. E02D 3/08 (2006.01) E02D 3/02 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR COMPACTING SOIL AND GRANULAR MATERIALS**
[54] **PROCEDES ET APPAREILS DE COMPACTAGE DE SOL ET DE MATIERES GRANULEUSES**
[72] WHITE, DAVID J., US
[72] WISSMANN, KORD J., US
[71] GEOPIER FOUNDATION COMPANY, INC., US
[22] 2014-09-05
[41] 2015-03-12
[62] 2,922,377
[30] US (61/873,993) 2013-09-05

[21] **3,119,602**
[13] A1

[51] **Int.Cl. A61M 39/26 (2006.01) A61M 39/20 (2006.01) F16L 37/40 (2006.01)**
[25] EN
[54] **TAILLESS NEEDLELESS VALVE SYSTEM**
[54] **SYSTEME DE VALVE SANS QUEUE ET SANS AIGUILLE**
[72] ZOLLINGER, CHRIS, US
[71] CAREFUSION 303, INC., US
[22] 2013-11-01
[41] 2014-05-15
[62] 2,888,163
[30] US (13/673,971) 2012-11-09

[21] **3,119,621**
[13] A1

[51] **Int.Cl. A23D 9/00 (2006.01) A23L 33/115 (2016.01) A23L 33/12 (2016.01) A23D 7/00 (2006.01) A23D 9/007 (2006.01) A23D 9/06 (2006.01)**
[25] EN
[54] **PREPARED FOODS HAVING HIGH EFFICACY OMEGA-6/OMEGA-3 BALANCED POLYUNSATURATED FATTY ACIDS**
[54] **ALIMENTS PREPARES AYANT DES ACIDES GRAS POLYINSATURES EQUILIBRES EN OMEGA-6/OMEGA-3 DE HAUTE EFFICACITE**
[72] GURIN, MICHAEL, US
[72] KONOPACKI, ANDREW, US
[71] OMEGA FOODS, LLC, US
[22] 2012-04-17
[41] 2012-10-26
[62] 2,857,372
[30] US (13/088,417) 2011-04-17
[30] US (61/632,827) 2011-04-17

[21] **3,119,622**
[13] A1

[51] **Int.Cl. G01V 1/52 (2006.01) G01V 1/18 (2006.01) G01V 1/22 (2006.01)**
[25] EN
[54] **ACOUSTIC RECEIVERS WITH CYLINDRICAL CRYSTALS**
[54] **RECEPTEURS ACOUSTIQUES A CRISTAUX CYLINDRIQUES**
[72] NGUYEN, MINH DANG, SG
[72] CHANG, CHUNG, US
[72] BATES, CLINTON KEITH, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2017-05-25
[41] 2017-12-07
[62] 3,022,321
[30] US (62/344,572) 2016-06-02

[21] **3,119,624**
[13] A1

[25] EN
[54] **DEVICE AND METHOD FOR PRODUCING A DYED AND AN UNDYED PLASTIC MELT**
[54] **DISPOSITIF ET PROCEDE POUR LA PREPARATION D'UNE MASSE FONDUE DE MATIERE SYNTHETIQUE COLOREE ET D'UNE MASSE FONDUE DE MATIERE SYNTHETIQUE NON COLOREE**
[72] CONRAD, ULRICH, DE
[72] KERN, NORBERT, DE
[72] SCHMUDDE, MARKUS, DE
[72] STOHRER, BERNHARD, DE
[72] HORNBERGER, HEIKO, DE
[71] COPERION GMBH, DE
[22] 2017-07-27
[41] 2018-02-22
[62] 3,034,338
[30] EP (16184547.4) 2016-08-17

[21] **3,119,675**
[13] A1

[25] EN
[54] **MICRO-SCALE PROCESS FOR THE DIRECT PRODUCTION OF LIQUID FUELS FROM GASEOUS HYDROCARBON RESOURCES**
[54] **PROCESSUS A MICRO-ECHELLE POUR LA PRODUCTION DIRECTE DE COMBUSTIBLES LIQUIDES A PARTIR DE RESSOURCES EN HYDROCARBURES GAZEUX**
[72] SCHUETZLE, ROBERT, US
[72] SCHUETZLE, DENNIS, US
[71] GREYROCK TECHNOLOGY, LLC, US
[22] 2019-01-25
[41] 2019-08-01
[62] 3,089,096
[30] US (15/932,037) 2018-01-26

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[21] **3,119,687**
[13] A1

[51] **Int.Cl. A61G 7/07 (2006.01) A47C 20/00 (2006.01) A47G 9/10 (2006.01)**
[25] EN
[54] **THERAPEUTIC CUSHION SYSTEMS AND METHODS**
[54] **SYSTEMES DE COUSSIN THERAPEUTIQUE ET PROCEDES ASSOCIES**
[72] MELCHER, CARL, US
[72] CLARK, AARON, US
[72] ERICKSON, CLINT, US
[71] AMENITY HEALTH, INC., US
[22] 2013-02-01
[41] 2013-08-08
[62] 2,863,395
[30] US (61/594,840) 2012-02-03
[30] US (61/683,935) 2012-08-16
[30] US (61/710,913) 2012-10-08

[21] **3,119,688**
[13] A1

[51] **Int.Cl. A61M 39/26 (2006.01)**
[25] EN
[54] **NEEDLELESS CONNECTOR WITH FOLDING VALVE**
[54] **CONNECTEUR SANS AIGUILLE AVEC VALVE PLIABLE**
[72] YEH, JONATHAN, US
[72] ZOLLINGER, CHRISTOPHER J., US
[72] QUACH, MATTHEW, US
[72] MANSOUR, GEORGE MICHEL, US
[71] CAREFUSION 303, INC., US
[22] 2014-02-20
[41] 2014-10-02
[62] 2,901,180
[30] US (13/801,412) 2013-03-13

[21] **3,119,755**
[13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61K 31/137 (2006.01)**
[25] EN
[54] **EUTECTIC FORMULATIONS OF CYCLOBENZAPRINE HYDROCHLORIDE AND AMITRIPTYLINE HYDROCHLORIDE**
[54] **FORMULATIONS EUTECTIQUES DE CHLORHYDRATE DE CYCLOBENZAPRINE ET DE CHLORHYDRATE D'AMITRIPTYLINE**
[72] NEBULONI, MARINO, IT
[72] COLOMBO, PATRIZIA, IT
[71] TONIX PHARMA HOLDINGS LIMITED, US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,904,812
[30] US (61/792,757) 2013-03-15

[21] **3,119,789**
[13] A1

[51] **Int.Cl. C07C 229/12 (2006.01) A61K 31/198 (2006.01) A61K 31/395 (2006.01) A61K 31/40 (2006.01) A61K 31/404 (2006.01) A61K 31/495 (2006.01) A61K 31/496 (2006.01) C07C 229/26 (2006.01) C07C 229/36 (2006.01) C07C 279/14 (2006.01) C07C 323/58 (2006.01) C07D 207/16 (2006.01) C07D 209/20 (2006.01) C07D 233/64 (2006.01) C07D 241/08 (2006.01) C07D 403/06 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **AMINO ACID DERIVATIVES FUNCTIONALIZED ON THE N-TERMINAL CAPABLE OF FORMING DRUG ENCAPSULATING MICROSPHERES**
[54] **DERIVES D'ACIDE AMINE FONCTIONNALISES SUR LE TERMINAL N CAPABLES DE FORMER DES MICROSPHERES ENCAPSULANT UN MEDICAMENT**
[72] DONG, YIZHOU, US
[72] LOVE, KEVIN THOMAS, US
[72] LANGER, ROBERT S., US
[72] ANDERSON, DANIEL GRIFFITH, US
[72] CHEN, DELAI, US
[72] CHEN, YI, US
[72] VEGAS, ARTURO JOSE, US
[72] ALABI, AKINLEYE, US
[72] ZHANG, YUNLONG, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[22] 2012-10-26
[41] 2013-05-02
[62] 2,853,522
[30] US (61/552,423) 2011-10-27

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[21] **3,119,829**
[13] A1

[51] **Int.Cl. G06F 21/32 (2013.01) H04W 12/069 (2021.01) H04W 12/72 (2021.01) H04L 9/30 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTHORIZING ACCESS TO ACCESS-CONTROLLED ENVIRONMENTS**

[54] **SYSTEME ET PROCEDE CONCUS POUR AUTORISER L'ACCES A DES ENVIRONNEMENTS A ACCES CONTROLE**

[72] HOYOS, HECTOR, US

[72] BRAVERMAN, JASON, US

[72] XIAO, GEOFFREY, US

[72] STREIT, SCOTT, US

[72] MATHER, JONATHAN FRANCIS, US

[71] VERIDIUM IP LIMITED, GB

[22] 2014-05-13

[41] 2014-11-20

[62] 2,909,788

[30] US (61/822,746) 2013-05-13

[30] US (61/842,757) 2013-07-03

[30] US (61/842,756) 2013-07-03

[30] US (61/842,739) 2013-07-03

[30] US (61/842,800) 2013-07-03

[30] US (61/920,985) 2013-12-26

[30] US (61/921,004) 2013-12-26

[30] US (61/922,438) 2013-12-31

[30] US (61/924,092) 2014-01-06

[30] US (61/924,097) 2014-01-06

[30] US (14/201,499) 2014-03-07

[30] US (14/201,438) 2014-03-07

[30] US (14/201,462) 2014-03-07

[21] **3,119,830**
[13] A1

[51] **Int.Cl. H04H 60/29 (2009.01) H04N 21/258 (2011.01) H04L 12/16 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS TO COMPENSATE IMPRESSION DATA FOR MISATTRIBUTION AND/OR NON-COVERAGE BY A DATABASE PROPRIETOR**

[54] **PROCEDES ET APPAREIL POUR COMPENSER L'ATTRIBUTION INCORRECTE ET/OU LE DEFAUT DE COUVERTURE DE DONNEES D'IMPRESSION PAR LE PROPRIETAIRE D'UNE BASE DE DONNEES**

[72] RAO, KUMAR NAGARAJA, US

[72] LUO, TIANJUE, US

[72] PEREZ, ALBERT RONALD, US

[72] BELL, STEPHEN S., US

[72] ZHANG, MIMI, US

[72] HASKELL, JENNIFER, US

[72] WONG, DAVID, US

[71] THE NIELSEN COMPANY (US), LLC, US

[22] 2014-12-04

[41] 2015-09-17

[62] 2,936,701

[30] US (61/952,726) 2014-03-13

[30] US (61/979,391) 2014-04-14

[30] US (61/986,784) 2014-04-30

[30] US (61/991,286) 2014-05-09

[30] US (62/014,659) 2014-06-19

[30] US (62/023,675) 2014-07-11

[30] US (62/030,571) 2014-07-29

[21] **3,119,868**
[13] A1

[51] **Int.Cl. H04N 21/466 (2011.01) H04N 21/258 (2011.01) H04N 21/431 (2011.01) H04N 21/8405 (2011.01) H04L 12/16 (2006.01) H04L 12/58 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ACQUIRING, CATEGORIZING AND DELIVERING MEDIA IN INTERACTIVE MEDIA GUIDANCE APPLICATIONS**

[54] **SYSTEMES ET PROCEDES PERMETTANT D'ACQUERIR, DE CATEGORISER ET DE DELIVRER DU MULTIMEDIA DANS DES APPLICATIONS DE GUIDAGE MULTIMEDIA INTERACTIVES**

[72] RASANEN, KIRSTEN, US

[72] BRYANT, JAY S., US

[71] ROVI GUIDES, INC., US

[22] 2007-10-03

[41] 2008-04-17

[62] 2,665,131

[30] US (60/849,988) 2006-10-06

[30] US (11/641,976) 2006-12-18

[30] US (11/641,987) 2006-12-18

[21] **3,119,878**
[13] A1

[51] **Int.Cl. A61B 5/06 (2006.01) A61B 5/0215 (2006.01) A61B 5/03 (2006.01) A61B 5/145 (2006.01) A61B 17/34 (2006.01) A61M 5/168 (2006.01) A61M 5/48 (2006.01) A61M 25/06 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND DEVICES FOR FACILITATING ACCESS TO TARGET ANATOMICAL SITES OR ENVIRONMENTS**

[54] **SYSTEMES, METHODES, ET DISPOSITIFS POUR FACILITER L'ACCES A DES SITES OU DES ENVIRONNEMENTS ANATOMIQUES CIBLES**

[72] HULVERSHOM, JUSTIN, US

[72] SCHMIDT, KARL, US

[72] SWARTZ, DOUGLAS, US

[71] MEDLINE INDUSTRIES, INC., US

[22] 2010-08-19

[41] 2011-02-24

[62] 2,770,442

[30] US (61/235,004) 2009-08-19

[30] US (61/300,794) 2010-02-02

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,119,897**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06Q 40/02 (2012.01) G06F 21/62 (2013.01)**
[25] EN
[54] **SECURE PERMISSIONING OF ACCESS TO USER ACCOUNTS, INCLUDING SECURE DEAUTHORIZATION OF ACCESS TO USER ACCOUNTS**
[54] **AUTORISATION SECURISEE D'UN ACCES A DES COMPTES D'UTILISATEUR, COMPRENANT LA SUPPRESSION D'AUTORISATION SECURISEE D'UN ACCES A DES COMPTES D'UTILISATEUR**
[72] HOCKEY, WILLIAM, US
[72] KELLY, MICHAEL, US
[71] PLAID INC., US
[22] 2016-09-07
[41] 2017-03-16
[62] 2,997,115
[30] US (62/215,603) 2015-09-08
[30] US (62/267,508) 2015-12-15
[30] US (15/258,262) 2016-09-07
[30] US (15/258,256) 2016-09-07

[21] **3,119,914**
[13] A1

[25] EN
[54] **MICROARRAY BASED SAMPLE DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION D'UN ECHANTILLON SUR UNE BIOPUCE**
[72] COONEY, CHRISTOPHER G., US
[72] QU, PETER QIANG, US
[72] PEROV, ALEXANDER, US
[72] PARKER, JENNIFER, US
[71] AKONNI BIOSYSTEMS, INC., US
[22] 2012-04-13
[41] 2012-10-18
[62] 2,870,069
[30] US (61/475,107) 2011-04-13

[21] **3,119,918**
[13] A1

[25] EN
[54] **COMPOSITIONS AND METHODS FOR TRANSPLANTATION OF COLON MICROBIOTA**
[54] **COMPOSITIONS ET PROCEDES DE TRANSPLANTATION DU MICROBIOTE DU COLON**
[72] SADOWSKY, MICHAEL J., US
[72] KHORUTS, ALEXANDER, US
[72] WEINGARDEN, ALEXA R., US
[72] HAMILTON, MATTHEW J., US
[71] REGENTS OF THE UNIVERSITY OF MINNESOTA, US
[22] 2012-03-09
[41] 2012-09-13
[62] 2,829,385
[30] US (61/450,838) 2011-03-09

[21] **3,119,952**
[13] A1

[51] **Int.Cl. C01B 17/76 (2006.01) C01B 17/74 (2006.01) C01B 17/765 (2006.01)**
[25] EN
[54] **ENERGY RECOVERY IN MANUFACTURE OF SULFURIC ACID**
[54] **RECUPERATION D'ENERGIE DANS LA FABRICATION D'ACIDE SULFURIQUE**
[72] VERA-CASTANEDA, ERNESTO, US
[71] MECS, INC., US
[22] 2011-01-20
[41] 2011-11-10
[62] 3,012,769
[30] US (61/296,741) 2010-01-20
[30] US (61/382,882) 2010-09-14

[21] **3,120,030**
[13] A1

[25] EN
[54] **VESSEL RINSING APPARATUS**
[54] **DISPOSITIF DE RINCAGE DE RECIPIENTS**
[72] CIPRIANI, MARK, US
[72] LABRIE, RAOUL, US
[72] LAZARINI, ALEJANDRA, US
[72] EADS, THAD, US
[72] JUDGE, JACK, US
[72] ROSKO, MICHAEL, US
[72] TENTLER, ANTHONY, US
[72] VEROS, MICHAEL, US
[71] DELTA FAUCET COMPANY, US
[22] 2019-07-23
[41] 2020-03-14
[62] 3,050,399
[30] US (16/131,035) 2018-09-14

[21] **3,120,042**
[13] A1

[51] **Int.Cl. A01N 37/40 (2006.01) A01N 25/22 (2006.01) A01N 25/24 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **LOW VOLATILITY HERBICIDAL COMPOSITIONS COMPRISING AN AUXIN HERBICIDE AND A MONOCARBOXYLIC ACID OR MONOCARBOXYLATE THEREOF**
[54] **COMPOSITIONS HERBICIDES A FAIBLE VOLATILITE COMPRENANT UN HERBICIDE DE TYPE AUXINE ET UN ACIDE MONOCARBOXYLIQUE OU UN MONOCARBOXYLATE DE CELUI-CI**
[72] HEMMINGHAUS, JOHN W., US
[72] MACINNES, ALISON, US
[72] WRIGHT, DANIEL R., US
[72] ZHANG, JUNHUA, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2013-11-05
[41] 2014-05-08
[62] 2,889,666
[30] US (61/722,700) 2012-11-05
[30] US (61/794,769) 2013-03-15

[21] **3,120,114**
[13] A1

[25] EN
[54] **METHODS AND DEVICES FOR PROTECTING CATHETER TIPS AND STEREOTACTIC FIXTURES FOR MICROCATHETERS**
[54] **PROCEDES ET DISPOSITIFS DE PROTECTION D'EMBOUTS DE CATHETERS ET FIXATIONS STEREOTACTIQUES POUR MICROCATHETERS**
[72] SINGH, DEEP ARJUN, US
[72] ANAND, PJ, US
[71] ALCYONE LIFESCIENCES, INC., US
[22] 2014-06-17
[41] 2014-12-24
[62] 2,915,505
[30] US (61/835,905) 2013-06-17
[30] US (61/984,061) 2014-04-25

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[21] **3,120,161**

[13] A1

[25] EN

[54] **FLUID DIVERSION MECHANISM
FOR BODILY-FLUID SAMPLING**

[54] **MECANISME DE DEVIATION DE
FLUIDE POUR PRELEVEMENT
DE FLUIDE CORPOREL**

[72] BULLINGTON, GREGORY J., US

[72] PATTON, RICHARD G., US

[72] MIAZGA, JAY M., US

[72] GAW, SHAN E., US

[71] MAGNOLIA MEDICAL
TECHNOLOGIES, INC, US

[22] 2013-05-30

[41] 2013-12-05

[62] 2,875,118

[30] US (61/652,887) 2012-05-30

[30] US (13/904,691) 2013-05-29

[21] **3,120,172**

[13] A1

[25] EN

[54] **ANTI-PD-L1 ANTIBODIES AND
THEIR USE TO ENHANCE T-
CELL FUNCTION**

[54] **ANTICORPS ANTI-PD-L1 ET
LEUR UTILISATION POUR
AMELIORER LA FONCTION DES
LYMPHOCYTES T**

[72] IRVING, BRYAN, US

[72] CHEUNG, JEANNE, US

[72] CHIU, HENRY, US

[72] LEHAR, SOPHIE M., US

[72] MAECKER, HEATHER, US

[72] MARIATHASAN, SANJEEV, US

[72] WU, YAN, US

[71] GENENTECH, INC., US

[22] 2009-12-08

[41] 2010-07-08

[62] 2,740,806

[30] US (61/121,092) 2008-12-09

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22 juin 2021

10353744 CANADA LTD.	3,024,720	AKZO NOBEL CHEMICALS		ARIZONA BOARD OF	
2266170 ONTARIO INC.	2,930,760	INTERNATIONAL B.V.	2,968,760	REGENTS FOR AND ON	
3M INNOVATIVE PROPERTIES		ALANIS VILLARREAL,		BEHALF OF ARIZONA	
COMPANY	3,021,114	ROLANDO JESUS	2,898,905	STATE UNIVERSITY	2,779,842
9372-2882 QUEBEC INC.	2,894,361	ALBEMARLE CORPORATION	2,898,675	ARJONA ANTOLIN, RICARDO	2,877,974
AASBERG-PETERSEN, KIM	2,939,769	ALBERTS, BERT		ARNAUD, DANIEL	2,887,784
AB INITIO TECHNOLOGY LLC	2,939,799	FENNECHIENES	2,891,195	ARRAY BIOPHARMA INC.	2,873,654
ABB POWER GRIDS		ALBRECHT, TIMOTHY	3,022,607	ARYSTA LIFESCIENCE	2,942,208
SWITZERLAND AG	2,941,544	ALCOA USA CORP.	2,900,961	ASAFF ARANCIBIA, JORGE	
ABB SCHWEIZ AG	3,001,205	ALCON INC.	3,010,331	SELIM	2,907,759
ABBOTT, BRIAN	3,101,079	ALCON INC.	3,057,779	ASCENDIS PHARMA A/S	2,885,169
ABE, SHOICHI	3,019,875	ALDRICH, ALVAH BENJAMIN	2,875,463	ASKIN, DAVID	2,873,654
ABENGOA BIOENERGIA		ALEJO CASTILLO, MARIA		ASTEX THERAPEUTICS	
NUEVAS TECNOLOGIAS,		LUCIA	2,907,759	LIMITED	2,887,912
S.A.	2,877,974	ALKERMES PHARMA		ATTOQUANT DIAGNOSTICS	
ABIOMED, INC.	3,040,534	IRELAND LIMITED	2,885,196	GMBH	2,875,625
ABOUSEFIAN, JACQUES	2,921,901	ALLEN, JAMES D.	2,813,637	AUGER, ALEXANDRE	3,089,670
ABRIBAT, BENOIT	2,851,390	ALLEN, THOMAS	3,014,049	AUMASSON, JEAN-PHILIPPE	2,913,444
ABT, INC.	3,046,349	ALLEY, FERRYL	2,920,683	AVERY DENNISON	
ACCOMAZZI, VITTORIO	2,930,179	ALLISON TRANSMISSION,		CORPORATION	3,043,873
ACEVES DIEZ, ANGEL		INC.	2,879,721	AVIGILON CORPORATION	2,847,931
EMILIO	2,907,759	ALLSTATE INSURANCE		AYAL, SHARON	2,736,350
ACHIRILOAIE, MIRCEA	2,782,251	COMPANY	3,033,514	AZARIAN YAZDI, KAMBIZ	2,952,833
ACHTNER, RICHARD MARK	2,953,664	ALMIRALL, S.A.	2,917,596	BADEN-WURTTENBERG	
ADAMSON, JAMES K.	2,863,970	ALSHAER, HISHAM	2,836,164	STIFTUNG GGMBH	2,866,082
ADRIAN STEEL COMPANY	2,883,727	ALTERMATT, JOHN	2,857,860	BADGER, PAUL	3,007,591
ADRIAN STEEL COMPANY	3,060,511	AMADEUS S.A.S.	2,864,007	BAG, GARGI	2,941,544
ADVANCED ACCELERATOR		AMAZON TECHNOLOGIES,		BAID, MEHANT	3,058,765
APPLICATIONS		INC.	3,000,161	BAJPAI, MALINI	2,993,304
INTERNATIONAL SA	2,886,068	AMBARTSOUMIAN,		BAKAN, DOUGLAS	2,906,378
ADVANCED LIQUID LOGIC		GOURGEN	3,088,269	BAKER HUGHES, A GE	
INC.	2,877,950	AMELUNXEN, PETER A.	3,000,507	COMPANY, LLC	3,018,062
ADVANCED NEW		AMOAH, FRANCIS	2,925,156	BAKER HUGHES, A GE	
TECHNOLOGIES CO.,		AMPYX POWER B.V.	2,879,432	COMPANY, LLC	3,024,488
LTD.	3,024,889	AN, JICHENG	2,981,185	BALASTRE, MARC	2,851,390
ADVANCED NEW		ANCHOR WALL SYSTEMS,		BALASUBRAMANIAN,	
TECHNOLOGIES CO.,		INC.	2,912,376	VISWANATHAN	2,915,578
LTD.	3,052,735	ANDERSON, RANDALL		BALBAS, MINNA D.	2,889,765
ADVANCED NEW		EUGENE	2,918,142	BALLWEG, BRADLEY	2,921,364
TECHNOLOGIES CO.,		ANDERSSON, NICLAS	2,907,911	BALTISSEN, ANTONIUS	
LTD.	3,084,086	ANGIOMED GMBH & CO.		HENRICUS MARIA	
AFFIBODY AB	2,889,037	MEDIZINTECHNIK KG	2,874,568	CATHARINA	2,920,428
AGFA NV	2,920,006	ANTAKI, PATRICK R.	2,939,928	BANDIS, STEVEN	3,030,875
AGILENT TECHNOLOGIES,		AOKI, MASAHIDE	3,038,479	BANNON, BRYAN	3,030,185
INC.	2,850,912	APERAM	2,941,205	BARBIERI, RICCARDO	2,864,398
AGNOVOS HEALTHCARE,		APL TECHNOLOGY AS	2,911,173	BARBULESCU, SORIN	
LLC	2,933,617	APPIA, LLC	3,048,427	ADRIAN	2,920,292
AHEARN, KEVIN	3,014,049	AQSEPTENCE GROUP, INC.	2,880,111	BARCKHOLTZ, TIMOTHY	
AHMED, NASIMUDDIN	3,036,244	AQUARIUS ENGINES (A.M.)		ANDREW	2,902,934
AHN, JAESEUNG	2,900,348	LTD.	2,946,504	BARNES, WILLIAM	3,017,612
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AHRENS, MATTHEW	2,885,059	ARCONIC TECHNOLOGIES		BAROUCHE, DAVID	3,109,365
AIRBUS HELICOPTERS		LLC	2,923,442	BARRETT, LOUIS L.	2,988,662
DEUTSCHLAND GMBH	3,050,051	ARIGONI, FABRIZIO	2,909,211	BARRETT, PHILIP	
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BARYCHEV, ANDREI MIKHAILOVITCH	2,920,428	BOLIKAL, DURGADAS	2,919,532	CANDELORE, BRANT	2,913,985
BASF SE	2,880,780	BOLIKAL, DURGADAS	3,029,961	CAO, JIANHUA	3,018,602
BASF SE	2,914,098	BOLLI, REINHARD	2,803,031	CAO, YU	2,926,698
BASF SE	2,916,530	BOLLISH, STEPHEN	2,911,251	CAPOGLU, ILKER R.	3,046,775
BAX, BART JAN	2,891,302	BONDHUS, ANDY	3,027,562	CARBO CERAMICS, INC.	2,884,253
BAXI, SANGITA M.	2,810,359	BONNAH, HARRIE W., II	3,073,758	CAREFUSION 303, INC.	2,911,251
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BECA, BOGDAN	2,920,683	BORUFF, KELLI	2,857,860	CARPIO GONZALEZ, YAMILA	2,844,898
BECK, GUILLAUME	2,917,228	BOSMA, HARKE JAN	2,899,367	CARR, JAN	3,019,179
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BENNETT, STEVEN PAUL	2,912,376	BRAIG, ADALBERT	2,916,530	CHAIKO, DAVID J.	2,971,222
BENSING, MAUREEN	2,901,008	BRAINSWAY, LTD.	2,864,468	CHAMBERLAIN, PAUL	3,060,476
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BERGER, GISBERT	3,014,096	BRANNAN, JOSEPH D.	3,008,243	CHAN, PAUL MON-WAH	2,937,952
BERGMANS, STEPHAN CORNELIS GERARDUS	2,962,125	BRASSFIELD, STEVEN ROBERT	2,875,816	CHAN, WENDY	2,929,571
BERGQVIST, SIMON PAUL	2,810,359	BREUILLE, DENIS	2,909,211	CHANDA, ARANI	2,870,005
BERKENBLIT, ANNA	2,787,048	BRIGHTCOVE INC.	2,909,517	CHANDELIER, FLORENT ANDRE ROBERT	2,892,326
BERKSHIRE GREY, INC.	3,014,049	BRODY, LEIGH	2,882,705	CHANDRAN, SAJEEV	2,906,378
BERLOWITZ, PAUL J.	2,902,934	BROEKHUIS, ROBERT	3,077,100	CHANG, BYEONG SEON	2,960,625
BES, LAURENCE	2,910,744	BROEMSE, NORBERT	3,045,049	CHANG, EDWARD Y.	2,754,121
BESHIRI, ILIR	2,665,408	BROOME, GREGORY ALLEN	2,805,067	CHANG, FRANK	3,010,331
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BHUSHAN, NAGA	2,952,833	BRUCKNER, JAN	3,058,356	CHANG, WING	3,051,141
BHUTADA, PRAVIN MEGHRAJJI	2,906,378	BRUNO, LORENZO	2,900,434	CHANG, WING	2,912,229
BIAGINI, BRAD	3,049,448	BRYANT, GREGORY OREN	2,903,870	CHAPOTIN, BRUNO	2,912,229
BICYCLERD LIMITED	2,901,535	BRYANT, JAMES DANIEL	2,900,961	CHARLTON, KEITH ALAN	2,856,255
BILAL, MUHAMMAD	3,093,678	BTG INSTRUMENTS AB	2,907,911	CHART INC.	2,904,379
BILLIG, JEREMY D.	2,903,870	BU, FANPING	3,042,019	CHAUHAN, BANSI	2,914,875
BIRCHBAUER, JOSEF ALOIS	3,005,106	BUCHET, DAMIEN	2,915,292	CHEN, JINHUI	2,981,197
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BISHWAS, SUMON	3,076,561	BUCK, ILDIKO MARIA	2,887,912	CHEN, YI-WEN	2,981,185
BLACHA, MARTIN	3,050,051	BUEGE, WALLACE	2,921,364	CHENG, ANDREW A.	3,057,529
BLOCK, PHILIP	2,868,171	BUETEFUER, JOHN LAWRENCE	2,920,292	CHENG, YEA-SHUN	2,785,219
BLOCK, PHILIP A.	2,924,319	BUGGY, STEPHEN	3,007,591	CHERUVALLY, ARAVINDAN	3,004,217
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BLOMGREN, PETER A.	2,971,241	BURCHETT, CHRIS	2,823,895	CHEUVRONT, DAVID L.	3,077,399
BLUMENSCHNEIN, CHARLES	3,049,448	BURGESS, JASON	2,805,067	CHEZLEON PTY LIMITED	2,878,382
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BOHLEN, HERIBERT	2,565,858	BYRNE, JAMES ANDREW	2,953,664	CHINN, MITCHELL SCOTT	2,890,928
BOHLEN, JORG	2,897,607	C-PROBE SYSTEMS LIMITED	2,976,433	CHOI, HYEONG WOOK	2,870,005
BOHM, GEORG	3,048,427	CACHIN, DOMINIQUE	2,941,544	CHOPRA, ANJU	2,875,524
BOKELMAN, KEVIN	2,878,194	CADENS MEDICAL IMAGING INC.	2,892,326	CHRISTMAS, COY	2,937,810
BOKISA, GEORGE	2,897,973	CAMPBELL, DON	2,823,895	CHRISTODOULOU, MARK	2,884,472
		CAMPS, TOM	2,823,895		

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CHRISTOPULOS, NICHOLAS U.	2,844,856	COWLEY, WILLIAM GEORGE	2,920,292	DEB IP LIMITED	2,928,883
CHU, JIANYING	3,005,717	CRABB, JOSEPH H.	3,088,406	DEC, ANDRZEJ	3,026,671
CHUGAI SEIYAKU		CRANDALL, JUSTIN	3,105,819	DEERE & COMPANY	2,855,254
KABUSHIKI KAISHA	3,038,479	CRAWFORD, MATTHEW	2,857,860	DEERE & COMPANY	2,863,970
CHURCH & DWIGHT CO., INC.	2,785,219	CREE, STEPHEN H.	2,914,928	DEFUSCO, MICHAEL	2,845,967
CHURCH & DWIGHT CO., INC.	3,045,469	CREO MEDICAL LIMITED	2,925,156	DEFUSCO, MICHAEL	2,864,932
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(DEUTSCHLAND) GMBH	2,959,457	CSL LIMITED	2,803,031	DELPHIX CORP.	2,885,059
CLARK, DANA	2,900,961	CUMMINGS, WALTER D.	2,855,475	DELTA FAUCET COMPANY	3,055,909
CLAUSEN, THOMAS MANDEL	2,861,051	CURE MEDICAL, LLC	3,067,104	DEMEXX, INC.	2,856,551
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CNPC ENGINEERING		CYTEC INDUSTRIES INC.	2,927,942	DENGLER, ULRICH	3,014,096
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COMPANY LIMITED	3,032,137	D B INDUSTRIES, LLC	2,899,159	CHRISTOPHER	3,065,829
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CODEXIS, INC.	2,902,824	D'HONDT, ERIK	2,856,255	DENTSPLY INTERNATIONAL	
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COINPLUG, INC.	3,038,450	DAHLBACK, MADELEINE	2,861,051	DERMOSESSIAN, RAPHAEL	2,983,618
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COOK BIOTECH		DAVIS, ANDREW	3,035,292	DING, YI	2,874,632
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COOPER, JEFFREY	3,022,382	DAVIS, STEVEN CHARLES	2,986,569	DIRTT ENVIRONMENTAL	
CORMA CANOS, AVELINO	2,877,974	DAWN FOOD PRODUCTS, INC.	2,898,905	SOLUTIONS, LTD.	2,932,170
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COMMUNICATIONS LLC	2,765,912	DAWSON-HAGGERTY, MICHAEL	3,014,049	EDUARDO	2,877,974
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COVIDIEN LP	2,845,783			TECHNOLOGIES LLC	2,953,001
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JULIA	2,920,335	PABLO	2,844,898	FLYNN, KYLE P.	2,944,858
DUNN, RONNIE	2,939,928	ETEX SERVICES NV	2,918,285	FMC CORPORATION	2,868,171
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DUTCH TERAHERTZ		EUZET, BERTRAND	3,042,195	AS	2,923,495
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E.V. OFFSHORE LIMITED	2,902,803	EXXONMOBIL RESEARCH		FP CANMECHANICA INC.	2,921,506
EADALA, SUMANTH	2,902,803	AND ENGINEERING		FRANCIS, FRANCIS	2,827,107
EATON INTELLIGENT POWER		COMPANY	2,902,934	FRANKLIN, RALPH	2,968,760
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EBERHARD, ELLEN	2,902,824	AND ENGINEERING		GESELLSCHAFT ZUR	
EBERHARDT, EUGENE	2,880,111	COMPANY	2,968,862	FOERDERUNG DER	
EBNER, TIMOTHY D.	2,820,466	EXXONMOBIL UPSTREAM		ANGEWANDTEN	
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ECOLAB USA INC.	2,929,571	FALDI, ALESSANDRO	2,902,934	FREE, DANIEL E.	3,017,277
ECOLAB USA INC.	2,931,192	FALKENSTEIN, MICHAEL K.	2,960,619	FREEMAN, JAMES M.	2,844,856
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EFFINGER, ROBERT T., IV	3,077,399	FANG, FRANK	2,870,005	HOLDINGS, INC.	2,988,662
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EHLICH, ANDREAS	2,565,858	FARRAG, LYNN	2,884,472	FRICKE, STEPHAN	2,819,520
EICHSTETTER, EDWARD	3,013,956	FARSHIDI, FOROUGH	3,062,478	FRIEDMAN, ALON	2,864,468
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EKMAN, JAAKKO	3,009,259	FEIGENBLUM, JOSE	2,875,235	FU, YUCHENG	2,930,760
EKU POWER DRIVES GMBH	3,013,956	FEINGOLD, JAY MARSHALL	2,787,048	FUJIFILM CELLULAR	
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RADIO FLYER INC.	3,039,482	ROTHENBERG, PAUL	2,907,079	SAVARD, NORMAND	3,095,789
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VEERMAN, CECILE	2,888,782	WEMHOENER, JENS	2,912,633	YAMAMURO, TAKASHI	3,037,660
VELAGAPUDI, PRASANNA	3,014,049	WENDT, MATTHIAS	2,922,306	YAN, LE	2,980,233
VELU, JEYALAKSHMI	2,915,578	WERMUTH, ROGER	2,900,433	YAN, XINYAN	2,900,961
VEMISHETTI, KAVITA	2,952,916	WEST, RYAN	2,903,870	YATES, LIBBEY ANNE	2,810,359
VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT	3,049,448	WESTON, KERRY C.	2,875,103	YE, AIQIAN	2,934,923
VESTAS WIND SYSTEMS A/S	3,007,591	WESTPOINT HOME LLC	2,920,664	YERRAMALLI, SRINIVAS	2,985,375
VETTER, DIRK	2,885,169	WEYLAND, TANIA	2,916,530	YETI COOLERS, LLC	3,027,562
VIDAL BARRERO, FERNANDO	2,877,974	WHITE, EVAN JAMES	3,065,829	YIN, JIANMING	3,032,795
VIDAL, THIERRY	2,851,390	WHITE, MALCOLM	2,925,156	YIN, SHIPING	3,050,897
VIG, AKSHAT	3,000,161	WHITEHILL MANUFACTURING CORPORATION	2,906,359	YOO, TAEKYUNG	2,900,348
VILLAINES, LAURENT CHRISTOPHE FRANCIS	2,920,335	WHITEHILL, A. SIMEON	2,906,359	YOO, TAESANG	2,985,375
VINCENT, THOMAS BERNARD PASCAL	2,892,326	WHITTON, GREGORY ALLAN	3,003,285	YOSHIDA, SHOSHIN	3,038,479
VINOCUR, BASIA JUDITH	2,736,350	WICHMANN, WOLF-DIETER	2,914,098	YOSHINO, HITOSHI	3,038,479
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VINYES PARES, GERARD	2,909,211	WIERENGA, JOHN MARVIN	3,050,709	YOUNG, TRAVIS	2,926,698
VIRCO MFG. CORPORATION	2,999,310	WIERENGA, LAMBERT	3,050,709	YSEBOODT, LENNART	2,922,306
VISEKRUNA, DUSAN	2,880,111	WIGHTMAN, PAUL D.	3,021,114	YSI, INC.	3,069,141
VITETTA, LUIS	2,978,179	WILKINSON, DAVID	2,800,685	YU, HAIYANG	2,953,001
VITTORI, ARTURO	2,915,244	WILLIAMSON, GEORGE L.	3,041,778	YU, YONGJIN	3,032,137
VIVONIC GMBH	2,827,781	WILSON, BRETT A.	2,884,253	YUAN, JINPING	3,032,137
VOGEL, MICHAEL	2,874,568	WILSON, GEORGE	2,885,059	YUN, SEIYEONG	3,044,944
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VOLKER, MANFRED	2,827,781	WINDELER, LUDWIG	2,880,780	YUSTUS, JOE	2,903,613
VOYER, BRANDY	2,910,473	WINZER, THILO HANS	2,803,102	Z OPTICS, INC.	2,985,517
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WACKER, ANDREAS	2,890,378	WLASCHIN, AARON P.	2,891,416	ZACHARCHUK, CHARLES MICHAEL	2,787,048
Waelchli, Marcel	2,803,031	WOHLHIETER, GEORGE M.	2,878,194	ZALLUHOGLU, UMUT	3,047,407
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WAKOLBINGER, STEFAN	3,005,106	WOLFRUM, SONJA	2,899,283	ZENG, PENG	2,941,275
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WALKER, TRACY CAROL	2,803,102	WOLTERING, THOMAS	2,900,433	ZETTLER, KURT JOSEPH, II	3,007,844
WALLACE, COOPER	3,060,476	WOODARD, JOSEPH RYAN	3,017,277	ZHANG, CHI	3,032,137
WALLER, JUDITH	2,910,548	WOODCOCK, DOMINIC	3,035,292	ZHANG, DONG	2,754,121
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WANG, CUIXIA	2,902,824	WOZNIAK, AMANDA	2,864,398	ZHANG, XIAOXIA	2,985,375
WANG, FEI	3,050,897	WRIGHT MEDICAL TECHNOLOGY, INC.	3,017,277	ZHANG, YI	3,024,720
WANG, KUN	2,968,862	WRIGHT, SAMUEL	2,803,031	ZHAO, YIMING	3,042,019
WANG, LONG-WEI	3,048,825	WU, BIN	2,932,532	ZHAO, YIMING	3,047,407
WANG, WUYI	2,782,251	WU, CHUAN-YIN	2,782,251	ZHENG, QIANGANG	3,018,602
WANG, XUEHUA	2,980,233	WU, TSE-CHONG	2,898,675	ZHOU, CHONGFENG	3,032,137
WANG, ZHAOCHENG	2,981,197	WURTH ELEKTRONIK EISOS GMBH & CO. KG	2,976,702	ZHOU, FASONG	2,782,251
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WATANABE, KEI	2,927,426			ZHOU, SHUIPING	2,932,187
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AIR DISTRIBUTION TECHNOLOGIES IP, LLC	3,102,130	CAN-EXPLORE INC.	3,102,495	DIVERSIFIED BIOTECH, INC.	3,101,807
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B.H. MAYER'S KUNSTPRAGEANSTALT GMBH	3,102,157	CHEN, ZHIPING	3,096,612	FENICHEL, ALLISON	3,102,154
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BANK, JOACHIM	3,102,007	CINQUANTI, NICHOLAS R.	3,099,515	FUKUDA, MASATSUGU	3,064,541
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BENDIX COMMERCIAL VEHICLE SYSTEMS LLC	3,099,312	COLOMBO, DANIELE	3,101,718	GIEBEL, MICHAEL	3,102,207
BERG, WALDEMAR	3,090,355	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	3,102,014	GIGOYAN, SUREN	3,064,242
BERNIER, MARTIN	3,085,273	CORDOBA, MAURO	3,099,195	GOODRICH CORPORATION	3,097,721
BESWICK, MICHAEL	3,102,537	CORTEZ, STEVE	3,102,018	GOURISETTI, SRI NIKHIL GUPTA	3,102,306
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BISSELL INC.	3,101,161	CURRAN, MATTHEW THOMA	3,101,874	GRANJEAON, DIDIER	3,102,005
BISSELL INC.	3,101,715	CUZZETTO, ANTHONY	3,064,592	GRANT, LARRY J.	3,101,996
BISSELL INC.	3,101,717	DAIGLE, DOMINIC	3,064,232	GRANT, LARRY J.	3,102,002
BLADES, MICHAEL N.	3,102,487	DALTON, BARNABY	3,101,713	GRASS, MARTIN	3,090,355
BLOXDORF, DAVID N.	3,101,874	DANSONS US, LLC	3,101,542	GREASE FIRE BEGONE LLC	3,102,000
BOOKEY, JOSHUA	3,102,181	DANSONS US, LLC	3,101,550	GREEN, JEREMY	3,068,028
BOONE, TENO	3,101,996	DANSONS US, LLC	3,101,897	GREEN, JEREMY	3,074,230
BOONE, TENO	3,102,002	DANSONS US, LLC	3,102,204	GREY, THADDEUS	3,101,748
BORDIN, DENNIS	3,100,680	DANSONS US, LLC	3,102,207	GROSS, MATTHEW L.	3,102,526
BOTURA, GALDEMIR CEZAR	3,097,721	DAVIS, JOHANNA	3,102,154	GROUNDLEVEL INSIGHTS INC.	3,102,015
BRAND, SAMANTHA M.	3,099,515	DELAWARE CAPITAL FORMATION, INC.	3,101,877	GUANGDONG KIN LONG HARDWARE PRODUCTS CO., LTD.	3,080,358
BROCHU, FRANCIS	3,102,495	DENG, WEI	3,100,796	GUANGXI UNIVERSITY	3,096,612
BROCK, JON	3,102,552	DEPIES, GERALD L.	3,101,874	GUPTA, VARUN	3,102,154
BROWN, ADAM	3,101,715	DEPUY IRELAND UNLIMITED COMPANY	3,100,418	GUT, TOBIAS	3,101,555
		DEVANNE LANGLAIS, PABLO	3,102,414	HAMILTON SUNDSTRAND CORPORATION	3,064,813
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HAUSMAN, DIANA F.	3,081,503	LIN, BINGYU	3,075,797	OLSON, ROY	3,102,542
HAYES, DAVID	3,101,287	LIN, JIANXIN	3,075,797	ORBIS CORPORATION	3,102,007
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HONEYWELL INTERNATIONAL INC.	3,100,864	LOCHNER, TOM	3,099,961	ORTIZ, REYMUNDO	3,101,753
HONEYWELL INTERNATIONAL, INC.	3,101,287	LU, DINGLIN	3,064,128	OTICO	3,101,806
HORN, CHRISTOPHER AARON	3,101,874	LYSTEK INTERNATIONAL CORP.	3,102,537	OWENS CORNING INTELLECTUAL CAPITAL, LLC	3,101,996
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IVERSON, BOB	3,101,874	MASSEY, CURTIS	3,102,665	PEARSON, ALEX	3,102,542
J A REDEKOP HOLDING LTD.	3,090,355	MAXOGRAM MEDIA INC.	3,064,110	PECK, JOHN HAMISH	3,101,429
JAMES, CHRIS	3,101,542	MCDONALD, CONOR	3,102,665	PEDRETTI, ETHAN	3,102,526
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JEONG, DAE HAN	3,064,213	MICHAUD, SEBASTIEN	3,102,495	PHILLIPS, JEFFREY JAMES	3,102,665
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KELLNER, JUSTIN	3,101,784	NAPOLI, JOSEPH R.	3,102,000	QUAN, ZONGYAN	3,096,612
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KOLE, ANUP T.	3,102,130	NI, JUN	3,075,797	REDEKOP, JOHAN	3,090,355
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SIMPKINS, KEVIN M.	3,102,385	ZHANG, KEVIN	3,074,230
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SMITH, TERENCE FRASER LEE	3,090,612		
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SPIELMAN, ZACHARY ELLIOTT	3,080,865		
STONE, JEDDIAH	3,101,714		
STUTZ, RUSSELL	3,101,287		
SUDMAN, DAVID	3,095,269		
SUNSIGHT HOLDINGS, LLC	3,097,015		
TACHIBANA, TOMOKAZU	3,064,541		
TACTILE ROBOTICS LTD.	3,101,887		
TAKANO, YUKI	3,064,541		
TECHTRONIC CORDLESS GP	3,101,881		
THE BOEING COMPANY	3,101,157		
THE BRAUN CORPORATION	3,100,261		
THE RAYMOND CORPORATION	3,101,748		
THRU TUBING SOLUTIONS, INC.	3,100,651		
TOFFOLI, ELIO	3,101,289		
TOMAC, JUSTIN WYNNE	3,102,073		
TOUBOU BAH, SOULEYMANE	3,085,273		
TOWBERMAN, JEFFREY CLAYTON	3,102,564		
TRACY, JOSHUA	3,102,542		
TZENG, RONG-CHYAN	3,065,017		
UNIVERSITE LAVAL	3,085,273		
UNKNOWN	3,064,128		
UNKNOWN	3,064,232		
UNKNOWN	3,064,587		
VALLEE, REAL	3,085,273		
VARGAS, LUIS L.	3,102,130		
VENKATESHA, HARISH	3,064,813		
VIJAY, ASHISH	3,064,813		
VOSS, JASON	3,101,784		
VUKOSAV, DANILO	3,101,157		
WAGNER, AMBER	3,101,753		
WANG, GUOSHUN	3,101,161		

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"CHEMIMMUNE THERAPEUTICS" LIMITED LIABILITY COMPANY	3,120,882	AKCIONERNOE OBSHESTVO "NACIONAL'NAYA SISTEMA PLATEZHNYKH KART"	3,120,501	ANDERSON, NICHOLAS	3,120,251
"T MANNETJE, LEON 11949098 CANADA INC. 23ANDME, INC. 2B1K IMPORTS PTY LTD 360 YIELD CENTER, LLC 8082464 CANADA INC. 9754741 CANADA LTD. ABBOTT DIABETES CARE INC. ABBOTT LABORATORIES ABDEL-MOHSEN, MOHAMED ABDOLELL, MOHAMED ABE, MAKOTO ABERCROMBIE, STUART ROBERT ABERLE, REID ABNORMAL SECURITY CORPORATION ABOABDO, IBRAHIEM H. ACCUTAR BIOTECHNOLOGY INC. ACTIV'INSIDE ADAERATA, LIMITED PARTNERSHIP ADAPTIVE 3D TECHNOLOGIES, LLC ADERMANN, TORBEN ADESOKAN, ADEYEMI ADRIAN, TOON ADVANCED INTELLIGENT SYSTEMS INC. AFLOAREI, ANDREI M. AFZAAL BIN HASIM, MOHAMAD AGC FLAT GLASS NORTH AMERICA INC. AGC GLASS EUROPE AGC INC. AGC VIDROS DO BRASIL LTD AGILEBIOTICS B.V. AGREZ, MICHAEL AGRO INTELLIGENCE APS AGUSTI FELIU, ANA AHMAD, NASER AHONEN, MIKA AIRO INDUSTRIES, INC. AKAHORI, YUJI AKAZAWA, SOTA	3,120,734 3,120,388 3,120,474 3,120,203 3,120,346 3,120,450 3,120,440 3,120,335 3,120,097 3,120,690 3,120,480 3,120,843 3,120,619 3,120,346 3,120,469 3,116,888 3,120,530 3,120,489 3,120,394 3,120,797 3,120,402 3,120,411 3,120,250 3,120,717 3,120,334 3,120,867 3,120,163 3,120,163 3,120,163 3,120,163 3,120,940 3,120,624 3,120,604 3,120,905 3,120,771 3,120,757 3,120,355 3,120,546 3,120,845	ALFARO, JENNIFER ALFF, DENIS ALI, ABDULLAH ALI, AMJAD ALI, AMJAD ALI, OLA SALAH ALKHATIB, YOUSEF F. ALLADAPT IMMUNOTHERAPEUTICS, INC. ALLARD, FREDERIC ALLINGTON, ERIC LEWIS ALLNEX NETHERLANDS B.V. ALM, RICHARD ALPINE IMMUNE SCIENCES, INC. ALSAYAR, MAX ALTENHOFER, ERICH ALTSCHULER, JONATHAN ALVERADO, EMMA ALVES FERREIRA, LUIS FERNANDO AMACKER, MARIO AMATOURY, SYLVAIN JACQUES AMBROSIO, FABRISIA AMGEN INC. AMOUZEGAR, KAMYAB AMYRIS, INC. ANASIEWICZ, KAMIL ANDERSON, BETHANY M. ANDERSON, BETHANY M. ANDERSON, CHRISTOPHER ANDERSON, DWIGHT LYMAN ANDERSON, JOHN	3,120,416 3,120,954 3,120,267 3,120,329 3,120,954 3,120,429 3,120,118 3,120,363 3,120,869 3,120,165 3,120,716 3,120,901 3,120,718 3,120,652 3,120,233 3,120,331 3,120,862 3,120,559 3,120,097 3,120,763 3,120,392 3,120,662 3,120,816 3,120,235 3,120,868 3,120,391 3,120,580 3,119,946 3,120,241 3,120,447 3,120,744 3,120,765 3,120,701 3,120,281 3,120,747 3,120,700 3,120,919 3,120,756 3,120,758 3,120,233 3,120,328 3,120,381	ANDERSON, NICHOLAS ANDERSON, NICHOLAS ANDREW, NEW ANDREWS, MILES C. ANDREWS, RICHARD ANDRULONIS, DAVID ANGSANA, JULIANTY ANIMAL DYNAMICS LIMITED ANRAM HOLDINGS ANTCZAK, MONIKA ANUVIA PLANT NUTRIENTS HOLDINGS INC. APOLLO ENDOSURGERY US, INC. APOSTOAE, ANDREI A. APOSTOAE, ANDREI A. APOSTOAE, ANDREI A. APPLIED MEDICAL RESOURCES CORPORATION APPLIED MEDICAL RESOURCES CORPORATION APPLIED MEDICAL RESOURCES CORPORATION APPLIED MEDICAL RESOURCES CORPORATION ARAGAM, NINA K. ARAI, HIROYUKI ARANDA-DIAZ, ANDRES JESUS ARAXES PHARMA LLC ARCELORMITTAL ARCUS BIOSCIENCES, INC. ARDOUREL, DAN ARENA PHARMACEUTICALS, INC. ARGENX BVBA ARGYROS, AARON ARGYROS, AARON ARIES, EBBEN ARIES, EBBEN ARIES, EBBEN ARIKAWA, YASUYOSHI ARKEMA FRANCE ARKEMA INC. ARKO, ZORAN ARNTZ, ANDREA ARRCUS INC. ARRCUS INC. ARRCUS INC. ARRIS ENTERPRISES LLC	3,120,250 3,120,250 3,120,709 3,120,185 3,120,714 3,120,237 3,119,889 3,120,456 3,120,858 3,120,061 3,120,771 3,120,156 3,120,373 3,120,423 3,120,113 3,120,182 3,120,184 3,120,194 3,120,368 3,120,760 3,120,569 3,120,383 3,119,647 3,120,196 3,120,868 3,120,706 3,119,655 3,119,634 3,119,639 3,120,710 3,120,743 3,120,746 3,120,774 3,120,354 3,120,181 3,120,276 3,120,775 3,120,710 3,120,743 3,120,746 3,120,664

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ARROWHEAD PHARMACEUTICALS, INC.	3,120,580	BAKER, KATIE	3,120,253	BELMONTE, NICOLAS GARCIA	3,120,414
ARTAL, PABLO	3,120,824	BAKER, THOMAS	3,120,784	BELTRAN MARTIN, ALVARO	3,120,820
ARYSTA LIFESCIENCE INC.	3,120,115	BALAJI, SAYEE PRASAAD	3,120,939	BEN TRAD, ABDERRAZEK	3,120,163
ARYTHA BIOSCIENCES LLC	3,120,860	BALDWIN, KRISTIN	3,120,855	BENJAMIN MOORE & CO.	3,120,340
ASAHI KASEI KABUSHIKI KAISHA	3,120,760	BALDWIN, KRISTIN	3,120,856	BENNETT, BRUCE RICHARD	3,120,342
ASCENSION TEXAS	3,120,320	BANNO, HIROSHI	3,120,774	BENSLAMA, YANIS	3,120,209
ASHWORTH, PAUL E.	3,120,097	BAO, YUN	3,120,713	BENSTEAD, EVAN	3,120,062
ASKLEPIOS BIOPHARMACEUTICAL, INC.	3,120,087	BARBIER, JULIEN	3,120,813	BENSTEAD, EVAN	3,120,891
ASKLEPIOS BIOPHARMACEUTICAL, INC.	3,120,105	BARCHOWSKY, AARON	3,120,701	BENSTEAD, EVAN	3,120,891
ASMUS, JASON	3,120,205	BARENHOLZ, TZVIKA	3,120,581	BERCKMANS, DRIES	3,120,754
ASOCIACION CENTRO DE INVESTIGACION COOPERATIVA EN BIOCIENCIAS-CIC BIOGUNE	3,120,842	BARGLOF, MARK WILLIAM	3,120,202	BERGER, RYAN	3,120,698
ASTOR, SAVINA	3,120,384	BARN2DOOR, INC.	3,120,112	BERGSTROM, DANIEL	3,120,649
ATTABOTICS INC	3,119,896	BAROSS, JOHN STEPHEN	3,120,231	BERGTHORSON, JEFFREY	3,120,229
ATTABOTICS INC	3,119,904	BARRAJA, PAOLA	3,120,739	BERNALES, SEBASTIAN	3,120,718
AUGUSTUS, DEVON	3,120,194	BARRETT, CHRISTIAN	3,120,102	BERNHARD, OLIVIER	3,120,592
AURELIO, LUIGI	3,120,756	BARRETT, TRISHA	3,119,634	BERTUCCIO, GIUSEPPE	3,120,666
AURELIO, LUIGI	3,120,758	BARRY, MICHAEL A.	3,120,715	BHARILL, SHASHANK	3,120,474
AUSTEIN, ROBERT	3,120,710	BARSOTTI, ROBERT J.	3,120,354	BHASKAR, PIYA S.	3,120,805
AUSTEIN, ROBERT	3,120,743	BARTEK, PETER M.	3,120,060	BHASKAR, UDAY RAMACHANDRA RAO	3,120,278
AUSTEIN, ROBERT	3,120,746	BARZILAI, DAN	3,120,480	BHATIA, SANGEETA N.	3,120,576
AUSTIN, WESLEY FRANCIS	3,120,235	BASF SE	3,120,221	BHAU, NEHAL	3,120,685
AUSTRENG, ANDREW R.	3,120,620	BASF SE	3,120,402	BIANCHI, ANDREA	3,120,537
AUTOTELIC HOLDING LLC	3,120,084	BASF SE	3,120,618	BIDRAM, FARHANG	3,120,717
AVENDANO AMADO, MAIER STEVE	3,109,958	BASTIAN, ANDREAS ALEXANDER	3,120,940	BIENFAIT, ROBERTA ANN	3,120,871
AVIDA BIOMED, INC.	3,120,713	BASTIAN, MARIA	3,120,940	BIENVENU, CHARLES- ETIENNE	3,120,450
AXIS ENERGY PROJECTS GROUP LIMITED	3,120,231	BATES, OLIVER	3,120,931	BIERMANN, WAYNE	3,120,135
AZIMIOARA, MIHAI	3,119,656	BATRA, SIMRAN VEENA	3,120,595	BILODEAU, MICHAEL ALBERT	3,120,382
AZITRA INC	3,120,185	BAUER MASCHINEN GMBH	3,120,772	BINDSCHAEDLER, PASCAL	3,120,221
AZZOPARDI, ANNA	3,120,249	BAUGH, ASHLEY, VILLARREAL	3,120,492	BINNEWIES, MIKHAIL	3,120,875
B&R INDUSTRIAL AUTOMATION GMBH	3,120,405	BAURER, MICHAEL	3,120,091	BINSENTRY INC.	3,120,449
B.BOX FOR KIDS DEVELOPMENTS PTY LTD	3,120,765	BAYER AKTIENGESELLSCHAFT	3,120,152	BIO-RECELL LTD.	3,120,276
BABAKHANI, AYDIN	3,120,643	BAYER AKTIENGESELLSCHAFT	3,120,665	BIOASTER	3,120,482
BABBINI, STEFANO	3,120,549	BAYER AKTIENGESELLSCHAFT	3,120,775	BIOCARTIS NV	3,120,216
BABE, LILIA MARIA	3,120,360	BAYER AKTIENGESELLSCHAFT	3,120,908	BIODYNE CO., LTD.	3,120,848
BABICH, KEVIN J.	3,119,913	BAYER PHARMA AKTIENGESELLSCHAFT	3,120,665	BIOLIFE SOLUTIONS, INC.	3,120,344
BACHMAN, NATHAN J.	3,120,354	BAYER PHARMA AKTIENGESELLSCHAFT	3,120,775	BIOLOGICAL E LIMITED	3,120,926
BAE, CHULSUNG	3,120,957	BEACH, MARK W.	3,120,374	BIOPROTONICS, INC.	3,120,284
BAE, JIN-HO	3,120,929	BEALS, CHANNING RODNEY	3,120,577	BIOVERSYS AG	3,120,902
BAE, JIN-HO	3,120,930	BEATTY, JOEL	3,120,196	BIRKENMAIER, GERHARD	3,120,945
BAE, MOO-JONG	3,120,271	BECK-BROICHSITTER, MORITZ	3,120,775	BIRKIN, CHRISTOPHER MALCOLM	3,120,759
BAGAOISAN, CELSO JACINTO	3,120,224	BECOULET, JULIEN FABIEN PATRICK	3,120,209	BIRRENKOTT, BRIAN	3,120,761
BAGNASCO, ANNAMARIA	3,120,428	BECTON, DICKINSON AND COMPANY	3,119,922	BISHOP, MARSHALL D.	3,120,094
BAGRI, ABHIJIT	3,120,469	BECTON, DICKINSON AND COMPANY	3,120,780	BISSELL INC.	3,120,353
BAJARD, PHILIPPE	3,120,821	BEDFORD INDUSTRIES, INC.	3,120,345	BITDEFENDER IPR MANAGEMENT LTD	3,120,156
BAKER HUGHES HOLDINGS LLC	3,120,183	BEIJING BYTEDANCE NETWORK	3,120,533	BITDEFENDER IPR MANAGEMENT LTD	3,120,334
BAKER HUGHES HOLDINGS LLC	3,120,697	BEJING BYTEDANCE TECHNOLOGY CO., LTD.	3,120,533	BITDEFENDER IPR MANAGEMENT LTD	3,120,373
		BELCARZ, ANNA	3,120,919	BITDEFENDER IPR MANAGEMENT LTD	3,120,423
		BELLEY, ROBIN	3,120,450	BITDEFENDER IPR MANAGEMENT LTD	3,120,424
		BELMAR, SEBASTIAN	3,120,718	BJORKMAN, PAMELA J.	3,120,324
		BELMON, GUILLAUME CLAUDE ROBERT	3,120,210	BLACK BELT TX LTD	3,120,718
				BLACK, MATTHEW LEE	3,120,662
				BLACK, PAUL	3,120,915
				BLACKBERRY LIMITED	3,120,483
				BLACKBERRY LIMITED	3,120,671

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BLACKBOURN, ROBERT LAWRENCE	3,120,492	BP EXPLORATION OPERATING COMPANY LIMITED	3,120,493	CAMBRIDGE ENTERPRISE LIMITED	3,119,875
BLAIN, ANDRE	3,120,656	BRACCO SUISSE SA	3,120,179	CAMBRIDGE ENTERPRISE LIMITED	3,119,880
BLANCHETOT, CHRISTOPHE	3,119,655	BRADLEY, RICHARD WAYNE	3,120,361	CANNATA, JONATHAN M.	3,120,586
BLANKMAN, JACQUELINE LORAYNE	3,120,577	BRADSHAW, MAXFIELD PAUL	3,120,663	CANOPY GROWTH CORPORATION	3,120,213
BLAZER, BRADLEY JEROME	3,120,655	BRAIS, LOUIS-PHILIPPE	3,120,654	CANTON, DAVID A.	3,120,564
BLIX, JOHN B.	3,120,535	BRAMMER, MICHAEL A.	3,120,660	CAO, HUIJIAN	3,120,536
BLOMGREN, FREDRIK	3,120,901	BRANDES, CHRISTOPH	3,120,091	CAO, ZHIYUAN	3,120,153
BLOOMBERG FINANCE L.P.	3,120,613	BRANIGAN, PATRICK	3,120,237	CAPEAU, PATRICE	3,120,168
BMA BRAUNSCHWEIGISCHE MASCHINENBAUANSTA LT AG	3,120,903	BRATMAN, JESHUA	3,120,469	CARDIOMECH AS	3,120,494
BOARD OF REGENTS - THE UNIVERSITY OF TEXAS SYSTEM	3,120,858	BRAY, PAUL A.	3,120,262	CARDIOMECH AS	3,120,535
BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	3,120,320	BRENGOR INNOVATION LTD	3,120,431	CAREFUSION 303, INC.	3,120,343
BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	3,120,349	BRISTER, MICHAEL KEITH	3,120,588	CAREFUSION 303, INC.	3,120,461
BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM	3,120,709	BRISTOL-MYERS SQUIBB COMPANY	3,120,358	CARLSEN, PETER NIELS	3,120,235
BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY	3,120,569	BRITTON, SIMON MAURICE	3,120,649	CARLSON, JEFFREY	3,120,580
BODDUPALLY, KEERTHI	3,120,699	BROADBENT, JEFFERY R.	3,119,639	CARMEL, AVIV	3,120,433
BODUM, JORGEN	3,120,600	BROAN-NUTONE LLC	3,120,205	CARMENA, JOSE M.	3,120,288
BOGOLEA, BRADLEY	3,120,688	BROOKS, NATHAN ANDREW	3,120,399	CARMENA, JOSE M.	3,120,296
BOKSHISH, KOBI	3,120,203	BROUWER, WILLIBRORDUS ADELBERTUS MARIA	3,120,192	CARPENTER, AUSTIN	3,120,426
BOLEN, PHILIPPE	3,120,607	BROWN, ANDREW	3,120,267	CARTER, PHILLIP W.	3,120,335
BOREALIS AG	3,120,954	BROWN, CHRISTOPHER	3,120,303	CASARTELLI, RICHARD	3,120,668
BORNARD, LAURENT	3,120,490	BROWN, ERIC	3,120,766	CASAS, ANGELES	3,120,370
BORRELLO, IVAN	3,120,323	BROWNING, ERICA	3,120,564	CASCIO, ANTHONY	3,120,329
BORSCHNECK, SEAN	3,120,898	BRUMBAUGH, ARIEL R.	3,120,569	CASE WESTERN RESERVE UNIVERSITY	3,120,858
BOS, ALBERT	3,120,274	BRUMBY, THOMAS	3,120,665	CASEY, JOHN PATRICK, JR.	3,109,958
BOS, ALOUISIUS NICOLAAS RENEE	3,120,625	BRUNO, DANTE LAMAR	3,120,602	CATALENT U.K. SWINDON ZYDIS LIMITED	3,120,744
BOSCH TUBERT, MARIA FATIMA	3,120,923	BRUSNIAK, MI-YOUN	3,120,466	CATANIA, GIANLUCA	3,120,428
BOSINCEANU, ELENA A.	3,120,156	BRUTON, CONNOR	3,120,249	CATTLE, BRYAN	3,120,294
BOSINCEANU, ELENA A.	3,120,373	BUCK, JEREMIAH	3,120,285	CAVE, ETOSHA R.	3,120,748
BOSINCEANU, ELENA A.	3,120,423	BUENCONSEJO, ALLAN C.	3,120,335	CAYOUILLE, MICHEL	3,120,394
BOTELLA-FRANCO, CAROLINA	3,120,492	BUGOIU, BOGDAN	3,120,334	CD PROCESSING LTD.	3,120,444
BOTEZATU, LOREDANA	3,120,334	BUGOIU, BOGDAN	3,120,424	CELLICS THERAPEUTICS INC.	3,120,860
BOTHWELL, SOLOMON	3,120,273	BUNCE, CHRISTOPHER IAN	3,120,619	CELULARITY, INC.	3,120,364
BOUCHARD, PATRICK	3,120,747	BUNIN, ANATOLIY	3,120,768	CENIT LAGUNA, MARIA CARMEN	3,120,905
BOUDET, HELENE	3,120,912	BUNKER, DAVID	3,120,790	CENTERLINE (WINDSOR) LIMITED	3,120,649
BOUROTTE, MARILYNE	3,120,902	BUNNETT, NIGEL	3,120,758	CENTRE HOSPITALIER DE BORDEAUX	3,120,175
BOUSSARIE, EMMANUEL DANIEL	3,120,181	BURCH BARREL, LLC	3,120,369	CENTRE NATIONAL DE LA RECHERCHE	3,119,871
BOUTET-BLAIS, GUILLAUME	3,120,490	BURCH, ROBERT L., II	3,120,369	CENTRE NATIONAL DE LA RECHERCHE	3,120,175
BOUZID, AHMED	3,119,931	BURKI, RAJENDAR	3,120,926	CENTRE NATIONAL DE LA RECHERCHE	3,120,658
BOW AND ARROW MARKETING, INC.	3,120,381	BURNHAM, JEFFREY C.	3,120,061	CERQUEIRA, GUSTAVO	3,120,200
BOYD, GREGORY R.	3,120,703	BURRINGTON, JAMES D.	3,120,104	CERTEGO THERAPEUTICS INC.	3,120,855
BOYD, JOHN	3,120,670	BURSTEIN, AMIR	3,120,385	CERTEGO THERAPEUTICS INC.	3,120,856
BP EXPLORATION OPERATING COMPANY LIMITED	3,120,164	BURSTAYLA, BADRY	3,119,656	CEYZAR, MIRZA	3,120,386
		BUSH, RANDALL	3,120,710	CHAKRAVARTY, SARVAJIT	3,120,718
		BUSH, RANDALL	3,120,743	CHAN ZUCKERBERG BIOHUB, INC.	3,120,569
		BUSH, RANDALL	3,120,746	CHANDRASEKARAN, NAVIN	
		BUSSAT, PHILIPPE	3,120,179	CHANDRAKANTH	3,120,765
		BUSSOLARI, JACQUELINE CIRILLO	3,120,704	CHANG, HER-JYE	3,120,590
		BUYENS, WIM	3,120,754		
		BYTEDANCE INC.	3,120,533		
		C.G.M. S.P.A.	3,120,545		
		CABASSI, PAUL JASON	3,120,187		
		CABOT CORPORATION	3,120,955		
		CAFE RANCHEIRO AGRO INDUSTRIAL LTDA	3,114,971		
		CALDWELL, BRITTANY	3,120,174		
		CALIFORNIA INSTITUTE OF TECHNOLOGY	3,120,324		
		CALIGIURI, MEREDITH L.	3,120,322		

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CHAPEK, CARLOS	3,120,301	CHUBBY GORILLA, INC.	3,116,888	CORAVIN, INC.	3,120,126
CHARLING, KURTIS ARLAN	3,120,938	CHUNG, DESMOND RYAN	3,120,480	CORBEL, PHILIPPE	3,120,244
CHAUDHARI, RAHUL	3,120,917	CINTRAT, JEAN-CHRISTOPHE	3,120,813	CORNING INCORPORATED	3,120,662
CHAUDHARY, UMESH	3,120,261	CIPRIANO, MADALENA	3,120,817	CORNING RESEARCH & DEVELOPMENT	3,120,655
CHECHIK, DMITRY	3,120,469	CISCO TECHNOLOGY, INC.	3,120,672	CORPORATION	3,120,763
CHEIKHI, AMIN	3,120,701	CISCO TECHNOLOGY, INC.	3,120,673	CORNYN, CHRISTOPHER	3,120,820
CHEN, ALI	3,120,536	CISCO TECHNOLOGY, INC.	3,120,685	CORTES CORTES, RODRIGO	3,120,395
CHEN, BO	3,120,580	CITRIX SYSTEMS, INC.	3,120,582	ANDRES	3,120,813
CHEN, JANICE S.	3,120,359	CITRIX SYSTEMS, INC.	3,120,723	COUHERT, AUDREY	3,119,867
CHEN, JIANLE	3,120,795	CITRIX SYSTEMS, INC.	3,120,788	COUILLARD, BRUNO	3,119,416
CHEN, JIANLE	3,120,828	CITRIX SYSTEMS, INC.	3,120,889	COULOMBE, GREGORY	3,120,892
CHEN, JIANLE	3,120,877	CITRIX SYSTEMS, INC.	3,120,890	KENNETH	3,120,893
CHEN, JIMENG	3,120,214	CLAPPER, JASON ROBERT	3,120,577	COULOMBE, GREGORY	3,120,908
CHEN, LIANG	3,120,730	CLARENS, ANDRES F.	3,120,081	KENNETH	3,120,796
CHEN, LIPING	3,120,278	CLARK, ROGER B.	3,120,235	COULOMBE, GREGORY	3,120,698
CHEN, QIAN	3,120,422	CLAWSON, JR., RONALD W.	3,120,560	KENNETH	3,120,761
CHEN, WENFENG	3,120,536	CLAYTON, PETER	3,120,249	COULOMBE, GREGORY	3,120,885
CHEN, YANGBIN	3,120,655	CLEVERS, JOHANNES		KENNETH	3,120,466
CHEN, YAQI	3,120,299	CAROLUS	3,120,932	COULON, CARL-HELMUT	3,120,675
CHEN, YE-MON	3,120,492	CLOSE, JOSHUA	3,120,204	COX, CHASE	3,120,180
CHEN, ZIMIN	3,120,409	CMI DEFENCE S.A.	3,120,607	CRAIG, JOSEPH	3,120,375
CHENAIS, BENOIT	3,120,658	COATES, JAYME ORMISTON	3,120,522	CRAIG, JOSEPH	3,119,867
CHENDAMARAI KANNAN, ARUMUGAM	3,120,247	COATES, JAYME ORMISTON	3,120,645	CREATIVE TOYS LLC	3,120,357
CHENG, ALICE G.	3,120,569	COGNITIVE SYSTEMS CORP.	3,120,197	CROOK, ZACHARY	3,120,331
CHENG, JIAJIA	3,120,536	COGNITIVE SYSTEMS CORP.	3,120,387	CROWDER, TANNER	3,120,862
CHENG, SAMUEL HEUNG YEUNG	3,120,330	COHEN, BEN JAN	3,120,203	CROWN EQUIPMENT CORPORATION	3,120,742
CHENG, STARR SING CHUNG	3,120,941	COHEN, RONEN	3,120,385	CRS HOLDINGS, INC.	3,120,711
CHERKAOUI, SAMIR	3,120,179	COLAS, ANTOINE	3,120,785	CRYPTO4A TECHNOLOGIES INC.	3,120,175
CHERYNIAK, ROMAN		COLE, RICK	3,120,852	CUPPARI, SCOTT	3,120,670
IGOREVICH	3,120,877	COLE, S. KEITH	3,120,735	CUTLER, KENNETH A.	3,120,560
CHEVRON PHILLIPS CHEMICAL COMPANY LP	3,120,094	COLGATE-PALMOLIVE COMPANY	3,120,241	CVTECH-IBC INC.	3,120,392
CHHABRA, ARNAV	3,120,576	COLGATE-PALMOLIVE COMPANY	3,120,365	CWIK, TOMASZ	3,120,618
CHIGNOLA, ROBERTO	3,120,463	COLGATE-PALMOLIVE COMPANY	3,120,632	CYTOMX THERAPEUTICS, INC.	3,120,327
CHINA AGRICULTURAL UNIVERSITY	3,120,432	COLGATE-PALMOLIVE COMPANY	3,120,886	CZARNECKI, PAWEL	3,120,303
CHINA WONDERLAND NURSERYGOODS CO., LTD.	3,120,724	COLIJN, HENDRIK ALBERTUS	3,120,625	D. WESTERN THERAPEUTICS INSTITUTE, INC.	3,120,751
CHITTARI, RAVIKIRAN	3,119,946	COLLIN, JUSSI	3,120,810	DAI NIPPON PRINTING CO., LTD.	3,120,843
CHIU, CHARLES	3,120,359	COLLINS, ROBERT	3,120,933	DAJOCARE TECHNOLOGY (SHENZHEN) CO., LTD.	3,120,201
CHKHAN, KRISTINA	3,120,867	COLOMB, FLORENT	3,120,690	DALBERG, JAMES	3,120,636
CHO, HYOK JUN	3,120,240	COLOPLAST A/S	3,120,415	DANOV, TATIANA	3,120,385
CHO, SUNGYOO	3,120,085	COLTHART, ALLISON	3,120,800	DAS, JAYDIP	3,120,375
CHO, WONSANG	3,120,191	COLTMAN, ALEXANDER	3,119,889	DASGUPTA, SAMBARTA	3,120,597
CHODYNIECKI, JASON	3,120,888	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES	3,120,813	DASH, COREY	3,120,060
CHOI, HYUN HO	3,120,240	ALTERNATIVES	3,120,813	DATLA, MAHIMA	3,120,926
CHOI, HYUN HO	3,120,667	COMPAGNIE GENERALE DES ETABLISSEMENTS		DATTA, GARGI	3,120,716
CHOI, SU BIN	3,120,667	MICHELIN	3,120,652	DAUGHERTY, SEAN A.	3,120,425
CHONG, WEIWEI	3,120,897	COMPANEER GMBH	3,120,165	DAUGHERTY, SEAN A.	3,120,426
CHOPRA, SUMAN	3,120,886	CONCRIA OY	3,120,757	DAUGHERTY, SEAN A.	3,120,455
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CHOWDHRY, VIKAS	3,120,155	CONNER, BILLY T.	3,120,735	DAVIES, GRAHAM	3,120,286
CHRISTEN, HANSUELI	3,120,543	CONRADO, ROBERT JOHN	3,120,151		
CHRISTENSEN, COREY	3,120,461	CONSEJO SUPERIOR DE INVESTIGACIONES			
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DE HAARD, HANS	3,119,655	DISMUKE, DAVID	3,120,289	EBRAHIMI AFROUZI, ALI	3,120,728
DE RICK, JAN	3,120,238	DISPENSING TECHNOLOGIES		ECOLE NATIONALE	
DEGIACOMO, FRANK	3,120,885	B.V.	3,120,633	SUPERIEURE	
DEHUMIDIFIED AIR		DISPENSING TECHNOLOGIES		D'INGENIEURS DE CAEN	3,119,871
SOLUTIONS, INC.	3,075,153	B.V.	3,120,808	EDATHARA, ANIL	3,120,685
DELBECK, MARTINA	3,120,152	DIVE TECHNOLOGIES INC.	3,120,264	EDGINGTON-MITCHELL,	
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DELGAS, RUDI	3,120,618	DIXON, ERIC ROBERT	3,120,859	EDGINGTON-MITCHELL,	
DELLAS, JAMES	3,120,762	DJOKOVIC, ANDREJA	3,120,273	LAURA	3,120,758
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DELPUCH, ALAIN	3,120,826	DOGAN, NIHAN	3,120,485	CORPORATION	3,120,859
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DENG, QIAOLIN	3,120,862	DOW TECHNOLOGY		ELC MANAGEMENT LLC	3,120,702
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DENSITAS INCORPORATED	3,120,480	DOWLING, JACKLYN	3,120,702	ELEVAR THERAPEUTICS,	
DENTSPLY SIRONA INC.	3,120,091	DRACOPOLI, NICHOLAS C.	3,120,200	INC.	3,120,366
DEPIXUS	3,120,176	DRAG, MARCIN	3,120,758	ELHALFAWY, OMAR M.	3,120,766
DEPRIMO, SAMUEL	3,120,237	DRLIK, MARK SASHA	3,120,619	ELIAS PUIGDOMENECH, IVET	3,120,923
DERDA, RATMIR	3,120,393	DROBE, BJORN	3,119,872	ELIGO BIOSCIENCE	3,120,160
DERLY, CHRISTOPHE	3,120,785	DRUGUETT, GUSTAVO	3,120,799	ELIGO BIOSCIENCE	3,120,615
DERMATA THERAPEUTICS,		DRW TECHNOLOGIES LLC	3,120,140	ELLINGER, STEFAN	3,120,174
LLC	3,120,578	DSM IP ASSETS B.V.	3,120,295	ELLIOTT, PATRICK	3,120,194
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DERUNTZ, OTTO	3,120,126	DUBBERLY, BRUCE A.	3,120,180	ELSTERMANN, ERIC J.	3,120,664
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DESPA, FLORIN	3,120,066	DUBOSE, BRITTANY	3,120,799	EMMONS, QUINCY ANDREW	3,120,661
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DETNET SOUTH AFRICA		DUGGAL, ROHIT	3,120,695	ENDOMET BIOSCIENCES,	
(PTY) LTD	3,120,764	DUGGAN, RYAN	3,120,480	INC.	3,120,699
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(PTY) LTD	3,120,767	DUNCTON, MATTHEW	3,120,337	ENGELHARDT, JULIEN	3,120,175
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OFFENTLICHEN RECHTS	3,120,421	DUNN, MATTHEW	3,119,946	ESENLIK, SEMIH	3,120,795
DEVECIGIL, DEMIR	3,120,138	DUPONT NUTRITION		ESENLIK, SEMIH	3,120,828
DEVISON, STEPHEN ARNOLD	3,120,197	BIOSCIENCES APS	3,120,360	ESENLIK, SEMIH	3,120,877
DEVISON, STEPHEN ARNOLD	3,120,387	DUPONT NUTRITION		ESPRIX TECHNOLOGIES, LP.	3,120,742
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MAR	3,120,820	DYNASOL ELASTOMEROS,		EVANS, MARK	3,119,938
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DICHIU, DANIEL	3,120,373	E-VISION SMART OPTICS,		EVANS, SARAH ADELAIDE	3,120,673
DICHIU, DANIEL	3,120,423	INC.	3,120,516	EVEREST, JONATHAN F.	3,119,927
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DIEVART, JEREMY	3,120,209	EAGLE VIEW		LIMITED	3,120,460
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FATTAL, DAVID A.	3,120,350	FLITEBOARD PTY LTD	3,120,616	RICHARD	3,119,396
FATTAL, DAVID A.	3,120,544	FLOORING INDUSTRIES		GAETA, FEDERICO	3,120,086
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FERGUSON, MATTHEW	3,120,426	MATTHEW	3,120,580	GALLOWAY, MICHAEL RYAN	3,120,541
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FERRAR, BEN	3,120,234	FRANKE, FREDERIKE	3,120,091	GAO, HAN	3,120,828
FERREIRA DE SOUZA,		FRASER, IAIN PETER	3,120,577	GAO, HAN	3,120,877
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FIORENZA DE LIMA, HENRI	3,120,447	FREMONT SOFTWARE, LLC	3,120,838	CONDITIONING	
FIRERREIN INC.	3,120,661	FRENDEWEY, DAVID	3,120,799	EQUIPMENT CO., LTD.	3,119,418
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FITZHUGH, WILLIAM	3,120,864	FRUSTACI, SALVATORE	3,119,906	GEIGER, EMMA	3,120,800
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GIAMPIETRO, NATALIE C.	3,120,374	GREEN, TRACY	3,120,585	GURUSAMY, RAJKUMAR	3,120,743
GIBB, CAMERON SEATH	3,120,115	GREEN, TRACY	3,120,589	GURUSAMY, RAJKUMAR	3,120,746
GIBBS, CRAIG	3,120,570	GREENLEE, WILLIAM J.	3,120,614	GUSAROVA, VIKTORIA	3,120,528
GIBSON, KARL RICHARD	3,119,882	GREENTECH GLOBAL PTE.		GUSTAFSON, TIMOTHY	3,119,647
GIBSON, KEITH A.	3,120,670	LTD.	3,120,382	GWALTNEY, II, STEPHEN L.	3,120,858
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GILBERT, MARK	3,120,869	ROBERT	3,120,866	CENTER & RESEARCH	
GILBERTSON, LARRY A.	3,120,571	GREINDL, TOBIAS	3,120,772	INSTITUTE	3,120,351
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GILKEY, RYAN	3,120,771	GREVING, MATTHEW P.	3,120,102	H.C. STARCK TUNGSTEN	
GILL, MARK	3,120,777	GREWENIG, ANNABEL	3,120,421	GMBH	3,120,818
GILLENWATER, HEIDI	3,120,363	GRICE, CHERYL A.	3,120,577	HA, NA RY	3,120,240
GILLET, DANIEL	3,120,813	GRISHKO, ANDREY	3,120,243	HA, NA RY	3,120,667
GILPIN, MARC ALLEN	3,120,377	GRISTICK, HARRY	3,120,324	HAANING, SVEND	3,120,360
GINALSKA, GRAZYNA	3,120,919	GROGAN, PATRICK	3,120,140	HAAS, THOMAS	3,120,149
GIP, PHUNG TU	3,120,096	GROHOSKI, GREGORY		HABIBI, MEHRAN	3,120,379
GIP, PHUNG TU	3,120,102	FREDERICK	3,120,683	HADAD, YARON	3,120,878
GIRAUDET, GUILLAUME	3,120,227	GROHOSKI, GREGORY		HAEGY, FRANCK	3,120,648
GIRAUDET, GUILLAUME	3,120,230	FREDERICK	3,120,684	HAEGY, FRANCK	3,120,650
GIRON, BERTONI LEILA	3,120,690	GROMADA, JESPER	3,120,528	HAESENDONCKX, MAX	3,120,216
GITZINGER, MARC	3,120,902	GROSSE-DUNKER,		HAGAR, YOLANDA	3,120,716
GIUFFRIDA, FRANK D.	3,120,291	MAXIMILIAN	3,120,896	HAHN, MICHAEL	3,120,152
GLACHET, THOMAS	3,119,871	GROUPE BBLUV INC.	3,120,389	HAHN, WENDY	3,120,328
GLOBAL BLOOD		GROZEL, CLEMENT	3,120,648	HAJIRAHIMKHAN, SOHEIL	3,120,213
THERAPEUTICS, INC.	3,120,380	GROZEL, CLEMENT	3,120,650	HAKSPIEL, STEFAN	3,120,945
GLOSSOP, PAUL ALAN	3,119,882	GU, JIANXIN	3,120,922	HALEY, CHRISTOPHER	
GNUBIOTICS SCIENCES SA	3,120,411	GUAN, JIAN	3,120,860	DARREN	3,120,431
GOBELI, JEFFREY D.	3,120,943	GUAN, WEI	3,120,299	HALFBRODT, WOLFGANG	3,120,665
GOCKEL, BIRGIT	3,120,221	GUANGDONG OPPO MOBILE		HALLDIN, PETER	3,120,736
GOISHIHARA, SATOSHI	3,120,843	TELECOMMUNICATIONS		HALLIBURTON ENERGY	
GOJI LIMITED	3,120,385	CORP., LTD.	3,120,199	SERVICES, INC.	3,120,342
GOKHALE, DILIP S.	3,120,805	GUANGDONG OPPO MOBILE		HALLIBURTON ENERGY	
GOLBERG, ALEXANDER	3,120,565	TELECOMMUNICATIONS		SERVICES, INC.	3,120,356
GOLDMAN, IAN L.	3,120,224	CORP., LTD.	3,120,398	HALLIBURTON ENERGY	
GOLE, BORIS	3,120,276	GUANGDONG OPPO MOBILE		SERVICES, INC.	3,120,446
GOME, GILAD BINYAMIN	3,120,243	TELECOMMUNICATIONS		HALMOS, DOMOKOS	3,120,945
GOMEZ DEL PULGAR		CORP., LTD.	3,120,719	HAMADA, HIKARU	3,120,438
VILLANUEVA, EVA		GUANGDONG OPPO MOBILE		HAMP, QUIRIN	3,120,443
MARIA	3,120,905	TELECOMMUNICATIONS		HAN, AMY	3,120,528
GOMMERMAN, JENNIFER	3,120,454	CORP., LTD.	3,120,779	HAN, CHENGCHOU JAMES	3,120,938
GONDI, VIJAYA	3,120,235	GUANGDONG OPPO MOBILE		HAN, HYOSUNG	3,120,273
GONZALEZ, MARINA		TELECOMMUNICATIONS		HAN, JIANGUANG	3,120,514
SOGORB	3,120,177	CORP., LTD.	3,120,900	HAN, MIA	3,120,564
GOODARZANIA, SHAHIN	3,120,246	GUANGZHOU BLUE MOON		HAN, TAE DONG	3,120,240
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				HAN, XUN	3,120,797

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HANES, KRISTOPHER	3,120,594	COMPANY, L.P.	3,120,934	HUANG, QUN	3,120,729
HANEY, TIMOTHY	3,120,285	HEXO OPERATIONS INC.	3,120,391	HUANG, XINYAN	3,120,614
HANKEL, NIKITA	3,120,865	HIBBERD, JULIAN	3,119,875	HUAWEI TECHNOLOGIES	
HANIS, GERHARD	3,120,405	HIBBERD, JULIAN	3,119,880	CO., LTD.	3,120,400
HANSEN, GEORGE CLAYTON	3,120,218	HICKEY, MICHAEL PETER	3,120,944	HUAWEI TECHNOLOGIES	
HANSEN, WILLIAM		HIDAKA, HIROYOSHI	3,120,751	CO., LTD.	3,120,500
BRADFORD	3,120,620	HIETARANTA, MARKO	3,120,731	HUAWEI TECHNOLOGIES	
HARDIMAN, JASON	3,120,357	HIETARANTA, MARKUS	3,120,731	CO., LTD.	3,120,795
HARDWICK, NANCI	3,120,796	HIGGINBOTTOM, STEVE	3,120,569	HUAWEI TECHNOLOGIES	
HARDY, AMANDA	3,120,699	HIGH, KEITH T.	3,120,097	CO., LTD.	3,120,828
HARIRI, ROBERT J.	3,120,364	HIGUCHI, HIROFUMI	3,120,740	HUAWEI TECHNOLOGIES	
HARRINGTON, LUCAS B.	3,120,359	HINTERBERG, MICHAEL	3,120,716	CO., LTD.	3,120,877
HARRITY, JOSEPHY P.A.	3,119,882	HIORTH, HANS EMIL	3,120,494	HUAWEI TECHNOLOGIES	
HARTLEY, BRIGHAM JAY	3,120,093	HIORTH, HANS EMIL	3,120,535	CO., LTD.	3,120,897
HASHIMOTO, TOMOTAKA	3,120,760	HIORTH, NIKOLAI	3,120,494	HUGHES NETWORK	
HATHAWAY, AARON		HIORTH, NIKOLAI	3,120,535	SYSTEMS, LLC	3,120,278
ASHLEY	3,120,703	HIRAKAWA, MANABU	3,120,843	HUGHES NETWORK	
HAUBENSCHILD, MICHAEL	3,120,852	HIRAKI, YUJI	3,120,839	SYSTEMS, LLC	3,120,520
HAUGER, MARTIN	3,120,150	HIRAPARA, COLE	3,120,585	HUIZINGH, JOHN	3,120,641
HAUSER, KEVIN EDUARD	3,120,102	HIRATA, KENRO	3,120,843	HULSE, RYAN	3,120,204
HAXHINASTO, SOKOL	3,120,528	HIRAYAMA, TAKAHARU	3,120,774	HUMBOLDT B.V.	3,120,849
HAY, ALEXANDER	3,120,656	HISHINUMA, SINSUKE	3,120,750	HUNEGNAW, SARA	3,120,748
HAYASHIDA, TOSHIKAZU	3,120,540	HISLER, KEVIN	3,120,181	HUNT PEROVSKITE	
HE, CHUANFENG	3,120,900	HISTOSONICS, INC.	3,120,586	TECHNOLOGIES, L.L.C.	3,120,251
HE, CHUQING	3,119,946	HOBSON, OLIVER	3,119,889	HUNT PEROVSKITE	
HE, JICHENG	3,120,496	HODGEN, ZACKERY		TECHNOLOGIES, L.L.C.	3,120,258
HE, WEI	3,120,530	MICHAEL	3,120,661	HUNT PEROVSKITE	
HEALTHY AGING RESEARCH		HOGAN, PHILIP	3,120,235	TECHNOLOGIES, L.L.C.	3,120,657
GROUP SOCIETA		HOLBAN, LIVIU A.	3,120,334	HUNTING TITAN, INC.	3,120,361
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H.A.R.G. S.R.L.	3,120,428	HOLLAND, MICHAEL	3,120,251	HUSKY INJECTION MOLDING	
HEARTLEIN, MICHAEL	3,120,647	HOLLAND, MICHAEL	3,120,258	SYSTEMS LTD.	3,120,659
HEAT CLICK COMPANY AB	3,120,441	HOLLEY, SUSAN NICOLE	3,120,129	HUSKY INJECTION MOLDING	
HEBERT, PATRICK	3,112,145	HOLLISTER INCORPORATED	3,120,635	SYSTEMS LTD.	3,120,663
HECKER, ANJA	3,120,149	HOLLISTER INCORPORATED	3,120,637	HUTCHISON, RICHARD M.	3,120,634
HECKMAN, GREGORY	3,120,301	HOLLISTER INCORPORATED	3,120,935	HUYNH, HUU THINH	3,120,554
HEDE, ANDERS WILHELM	3,120,415	HOLT, JUSTIN	3,120,455	HWANG, MICHELLE	3,120,335
HEDGES, JOHN FARRAR	3,120,342	HOLZSCHUH, STEPHAN	3,120,665	HWANG, YU KYEONG	3,120,085
HEDMAN, PETER	3,120,422	HOMYAK, CELIA	3,120,384	HYDRO-QUEBEC	3,120,747
HEITZ, ILMARIN	3,120,592	HOMYAK, CELIA	3,120,803	HYET HOLDING B.V.	3,120,272
HEJAZI, VAHID	3,120,735	HONEYWELL		HYET HOLDING B.V.	3,120,274
HEMERY, THERESE	3,120,912	INTERNATIONAL INC.	3,120,204	HYET HOLDING B.V.	3,120,277
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HEMMES, JAN-LUIKEN	3,120,547	HOODA, SANJAY KUMAR	3,120,685	IASELLA, GINO N.	3,120,649
HENKEL AG & CO. KGAA	3,120,912	HOOVER, ANDREW J.	3,120,862	IBEO AUTOMOTIVE SYSTEMS	
HENKEL AG & CO. KGAA	3,120,914	HOPPING, GENE GREGORY	3,120,466	GMBH	3,120,945
HENN, OHAD	3,120,326	HORN, GERALD	3,120,870	ICARDI, GIANCARLO	3,120,428
HENNESSY, ELISABETH	3,120,331	HOSS, UDO	3,120,335	ICHIKAWA, YOSHITAKA	3,120,235
HENNESSY, ELISABETH	3,120,862	HOU, LI	3,120,226	IDELSON, CHRISTOPHER	3,120,320
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CHARLES	3,120,425	HOWARD, STEPHEN	3,120,362	IGLESIAS, JUAN MANUEL	3,120,253
HENRY, RAYMOND		HOWK, JOSHUA BLAKE	3,120,361	IGLIO, VALERIO	3,119,906
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HENRY, RAYMOND		HOYOS, VALENTINA	3,120,323	IHC HOLLAND IE B.V.	3,120,193
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HERMANN, ROBERT	3,120,236	HU, NING	3,120,480	IM, WOOK BIN	3,120,848
HERMANS, TY GERARD	3,120,765	HU, YANBIN	3,120,532	IMAMURA, SHINICHI	3,120,774
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		HUANG, HUACHENG	3,120,397	TECHNOLOGIES INC.	3,119,910

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INOSE, KEITA	3,120,752	JAIRATH, SUMTI	JT INTERNATIONAL SA	3,120,777
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(ISNIR) PTY LTD	3,120,256	JAMESON, LLC	JU, MI KYEONG	3,120,667
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INTUIT INC.	3,119,416	JIANG, JIANQING	SEIKO SHO (KOBE STEEL,	
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INTUIT INC.	3,120,470	JIANGSU HENGRUI	KALIS, JURGEN	3,120,816
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ION, CRISTIAN	3,120,424	JIN, XIAOHUI	KANDIMALLA, VIVEK BABU	3,120,926
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KIM, DAVID	3,120,921	AKADEMIE VAN		ABRAHAM	3,120,767
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KIM, JIN-HWAN	3,120,922	KOSCIELSKI, LARRY FRANK	3,120,649	LAHIRI, SUSHMITA D.	3,120,235
KIM, MIJI	3,120,265	KOSEL, KEITH	3,120,155	LAHODA, EDWARD J.	3,120,524
KIM, SO YOUNG	3,120,240	KOSTLMEIER, MANFRED	3,120,896	LAI, JINSHENG	3,120,432
KIM, SUNG CHUL	3,120,366	KOTAKA, ROMI	3,120,548	LAI, ZHANQIU	3,120,904
KIM, TAE WANG	3,120,667	KOTRA, ANAND MEHER	3,120,795	LALLEMAND HUNGARY	
KIM, TINA HYUNJUNG	3,120,776	KOTRA, ANAND MEHER	3,120,828	LIQUIDITY	
KIM, YONGKOOK	3,120,190	KOTRA, ANAND MEHER	3,120,877	MANAGEMENT LLC	3,119,634
KIM, YOU-SUN	3,120,085	KOURANOV, ANDREI Y.	3,120,571	LALLEMAND HUNGARY	
KIMBERLY-CLARK		KOVALSKYY, VALERIY	3,120,138	LIQUIDITY	
WORLDWIDE, INC.	3,120,769	KOWALSKI, PIOTR		MANAGEMENT LLC	3,119,639
KIMKO, HOLLY	3,120,236	STANISLAW	3,109,958	LAMAMED SOLUTIONS	3,120,224
KINCAID, JOHN	3,120,336	KOYAMA, AKIHIRO	3,120,952	LAMB, WILSON	
KINCAID, JOHN	3,120,337	KOZLOWSKI, MIKE	3,120,079	CHRISTOPHER	3,120,425
KINCAID, JOHN	3,120,351	KPR U.S., LLC	3,120,135	LAMB, WILSON	
KINCAID, JOHN	3,120,352	KRAMER, MARIE	3,120,367	CHRISTOPHER	3,120,426
KINCAID, JOHN	3,120,371	KRAUTHAMER, AKIVA MEIR	3,120,595	LAMBERT, GREGORY	3,120,812
KING ABDULLAH		KREBS, ALAN J.	3,120,353	LANGEN, DOUGLAS	3,119,904
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AND TECHNOLOGY	3,120,559	CARLTON	3,120,883	LANZATECH, INC.	3,120,151
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KIOBOX SRL	3,120,420	KRUGER, MICHIEL JACOBUS	3,120,759	CONCEPTION	
KIPPEN, NICOLLE	3,120,253	KRUGER, MICHIEL JACOBUS	3,120,764	MECANIQUE INC.	3,120,674
KIRCHMAIR, MARTIN	3,120,668	KRUGER, MICHIEL JACOBUS	3,120,767	LAPALME, ERIC	3,120,674
KIRCHNER, NATHAN		KRYLOV, SERGEY N.	3,120,895	LARSEN, FINN	3,120,931
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KJELLSTROM, STEFAN	3,120,911	KUBIS, PATRICK	3,120,707	LARSEN, MATTHEW A.	3,120,862
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KLAUBER, ROBERT D.	3,120,885	KUBOTA, JUNPEI	3,120,263	LYNN	3,120,115
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LAZARUS, DAVID	3,120,179	LI, MENG	3,120,500	LOCASCIO, ROBERT	3,119,946
LE BRUN, CHRISTOPHE		LI, SHU	3,120,237	LOCIURO, SERGIO	3,120,902
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LE, KIM H.	3,120,281	LI, WEIMING	3,119,418	CORPORATION	3,120,805
LE, THANH HUY	3,120,859	LI, WENYU	3,120,206	LOFHOLM, HAKAN JOHAN	3,120,441
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LEAVELL, MICHAEL	3,120,700	LI, XIANG	3,120,941	LOHN, MIRKO	3,120,903
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LEBRETON, JACQUES	3,120,658	LI, XIN	3,120,864	LOOIJ, ADRIAN PETER	3,120,663
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LEE, CHINGWEI VIVIAN	3,120,474	LI, YINGNAN	3,120,432	CANDIDA	3,120,178
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LEE, HUN JOO	3,120,190	LI, YU-WEN	3,120,860	LOSCHIAVO, ROBERTO	3,120,447
LEE, JAEMIN	3,120,190	LI, ZHE	3,120,380	LOSKILL, PETER	3,120,817
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LEGOIS, VINCENT	3,120,333	LIANG, LIXI	3,120,909	LU, XIANPING	3,120,207
LEHNER, JACK	3,120,854	LIANG, YI	3,120,492	LU, XIAONAN	3,120,183
LEHTINEN, MARKUS	3,120,942	LIAO, CHENG	3,120,793	LUCARELLI, DENNIS	3,120,579
LEIA INC.	3,120,350	LIAO, LIANGFEI	3,120,789	LUGARI, ADRIEN	3,120,482
LEIA INC.	3,120,544	LIAO, SANNY XIAO YANG	3,120,469	LUI, HARVEY	3,120,770
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LEMAIRE, BENOIT	3,120,489	LIN, XIYONG	3,120,536	LUTTRELL, MARK	3,120,684
LEMIEUX, BENOIT	3,120,654	LIN, YANAN	3,120,199	LUTTRELL, RYAN	3,120,325
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LEPP, JAMES RANDOLPH		LIU, KUN	3,120,862	MA, YONGFEN	3,120,726
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MOORE, NOWELL	3,120,346	NATARAJA, PRAMOD	3,120,684	NOMURA, FUMIKO	3,120,548
MORALES, ISIDORO	3,120,559	NAYEEM, AKBAR	3,120,358	NOMURA, HIDEAKI	3,120,738
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MUIGG, ANDREAS	3,120,668	NFLECTION THERAPEUTICS, INC.	3,120,352	NUEST, STEVEN	3,120,346
MUKHERJEE, RAJA	3,120,393	NFLECTION THERAPEUTICS, INC.	3,120,352	NUKOLOVA, NATALIYA VLADIMIROVNA	3,109,958
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MULCAHEY, DAVID	3,120,670	NFLECTION THERAPEUTICS, INC.	3,120,182	NUNEZ, JUAN CARLOS	3,120,145
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MUNIZ, THOMAS P.	3,120,626	NGUYEN, DUY	3,120,328	NUSSER, TOBIAS	3,120,945
MUNOZ, ERNESTO	3,120,237	NGUYEN, DUY	3,120,859	NYSTROM, TAISTO KALEVI	3,120,441
MURNAGHAN, KEVIN	3,120,635	NGUYEN, MINH MINDY BAO	3,119,656	O'CALLAGHAN, MICHAEL W.	3,120,087
MURPHY, ANDREW J.	3,120,528	NGUYEN, TAM VAN	3,120,619	O'CALLAGHAN, MICHAEL W.	3,120,105
MURRAY, MICHAEL G.	3,120,637	NGUYEN, TRUC NGOC	3,119,931	O'DELL, KEVIN	3,120,330
MUSANTE, ILARIA	3,120,739	NGUYEN, TUYEN	3,104,921	O'DONNELL, JEANNE LOUISE	3,120,245
MUSGROVE, GRAHAM SCOTT	3,120,649	NICHOLAS, ANTHONY	3,120,775	O'FLYNN, PADRAIG M.	3,120,637
MYCROFT, DAMIAN JAMES REEC	3,120,670	NICHOLLS, IRMA	3,120,189	O'NEILL, GARY PAUL	3,120,577
MYERS, ANDREW G.	3,120,235	NICHOLSON, MARK	3,120,249	OCTET MEDICAL, INC.	3,120,348
MYMETICS CORPORATION	3,120,744	NICOLAI, JANINE	3,120,156	OEELUND, JAKOB	3,120,415
NACY, MICHAEL D.	3,120,526	NICOVENTURES TRADING LIMITED	3,120,373	OELRICH, ROBERT L., JR.	3,120,524
NAEGELI, ANDREW H.	3,120,335	NICOVENTURES TRADING LIMITED	3,120,423	OGATA, YUYA	3,119,957
NAGAHATA, YUYA	3,120,263	NICULAE, STEFAN	3,120,232	OGAWA, SHOJI	3,120,745
NAGAHATA, YUYA	3,120,552	NICULAE, STEFAN	3,120,774	OH, YEONOCK	3,120,265
NAGASAWA, DAISUKE	3,120,552	NIELDS, THOMAS	3,120,928	OHATA, ATSUSHI	3,120,839
NAGRAVISION S.A.	3,120,826	NII, NORIYUKI	3,120,254	OHIRA, YUTA	3,120,548
NAIK, SNEHAL	3,120,706	NIIDA, KAZUNARI	3,120,619	OHORI, MASAYO	3,120,740
NAKAJIMA, HIROKI	3,120,927	NIKKI-UNIVERSAL CO., LTD.	3,120,360	OKADA, KEISHU	3,120,550
NAKAMOTO, TAKAYUKI	3,120,953	NIKNIA, IMAN	3,119,656	OKADA, TATSUYA	3,120,927
NAKANE, KUNIYASU	3,120,738	NIKOLAEV, IGOR	3,120,967	OKRAM, BARUN	3,119,656
NAKANE, NOBUYUKI	3,120,738	NIKULIN, VICTOR IVANOVICH	3,120,866	OLAYIWOLA, BOLAJI	3,120,246
NAKANO, HIKARI	3,120,752	NILSSON, MICHAEL	3,120,437	OLBRICH, ARMIN	3,120,818
NAKAZAWA, MASATO	3,120,953	NIMBUS LAKSHMI, INC.	3,120,752	OLIVER, GEORGE	3,120,155
NAM, WOOSOK	3,120,247	NIPPON CHEMICAL INDUSTRIAL CO., LTD.	3,120,934	OLSEN, DAVID N.	3,120,934
NAMIKI, NAOKO	3,120,740	NIPPON STEEL CORPORATION	3,120,466	OLSON, JAMES	3,120,466
NANAUMI, YASUYUKI	3,120,546		3,120,429	OLSON, MERLE	3,120,429
NANJING CHERVON INDUSTRY CO., LTD.	3,120,730		3,120,528	OLSON, WILLIAM	3,120,528
NANTKWEST, INC.	3,120,695		3,120,907	OLSSON, MATS-ARNE	3,120,907
NAQUIN, MICHAEL	3,120,303				
NAQUIN, MICHAEL	3,120,594				
NARAYAN VAIDYA, MANISH	3,120,229				

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OMER, MOHAMMAD	3,120,387	PARK, GYEONG MIN	3,120,085	INC.	3,120,875
OMNI CONSUMER		PARK, SOL	3,120,240	PITCHAI, SRIDHAR	3,120,710
PRODUCTS, LLC	3,120,362	PARK, SOL	3,120,667	PITCHAI, SRIDHAR	3,120,743
OMNI CONSUMER		PARK, YOEN-JUNG	3,120,271	PITCHAI, SRIDHAR	3,120,746
PRODUCTS, LLC	3,120,377	PARKER, JODIE	3,120,241	PITT, KEN	3,120,617
OMS INVESTMENTS, INC.	3,120,698	PARKLAND CENTER FOR		PITT, WILLIAM	3,120,084
OMS INVESTMENTS, INC.	3,120,761	CLINICAL INNOVATION	3,120,155	PITT, WILLIAM	3,120,121
ON CLOUDS GMBH	3,120,592	PARMIGIANI, CORRADO		PIVOT BIO, INC.	3,120,608
ONCODISC, INC.	3,120,522	SAVERIO	3,120,545	PLATTENBERGER, DAN A.	3,120,081
ONCODISC, INC.	3,120,531	PARSONS, KEITH P.	3,120,262	PLESSEL, FREDDY	3,120,188
ONCODISC, INC.	3,120,645	PASQUARIELLO, BRANDON	3,120,213	PLOCH, STEVEN	3,120,119
ONCOSEC MEDICAL		PATEL, ASHKA	3,120,474	PLUM PRODUCTS HOLDINGS	
INCORPORATED	3,120,564	PATEL, KEYUR	3,120,710	PTY. LTD.	3,120,821
OOKOBA, TADASHI	3,120,434	PATEL, KEYUR	3,120,743	PLUMMER, CHRISTOPHER W.	3,120,331
OPENEYE SCIENTIFIC		PATEL, KEYUR	3,120,746	PLUMMER, CHRISTOPHER W.	3,120,862
SOFTWARE, INC.	3,120,141	PATEL, SEJAL	3,119,656	POLITECNICO DI MILANO	3,120,666
OPPI, MATTEO	3,120,428	PATEL, VIKAS KANUBHAI	3,119,647	POLLACK, JOSHUA L.	3,120,875
OPUS 12 INCORPORATED	3,120,748	PATEL, ZARNA	3,120,647	POOLE, DANIEL P.	3,120,758
OREGE	3,120,168	PATINO PADIAL, TANIA	3,120,178	POPE, RYAN	3,120,182
ORSI, JENNIFER	3,120,761	PATRU, ELENA M.	3,120,334	POPE, RYAN	3,120,194
OSAKA RESEARCH		PATTERSON, DOUGLAS J.	3,120,697	POPPER, MATTHEW	3,120,790
INSTITUTE OF		PAULMANN, UWE	3,120,149	PORTER, RODERICK ALAN	3,119,882
INDUSTRIAL SCIENCE		PAULSON, CHARLES		POSCO	3,120,271
AND TECHNOLOGY	3,120,953	ANDREW	3,120,662	POSCO	3,120,929
OSBORNE, CHARLES AGNEW,		PAULSON, JOHN	3,120,328	POSCO	3,120,930
JR.	3,120,133	PAWLOWICZ, CHRISTOPHER	3,120,208	POST, ALLISON	3,120,643
OSCHWALD, HELMUT	3,120,896	PEDERSEN, TROELS		POTOCNIK, UROS	3,120,276
OSMON, CYNTHIA	3,120,892	GOTTFRIED	3,120,415	POTTKER, GUSTAVO	3,120,204
OSMON, CYNTHIA J.	3,119,416	PELTO, CHRISTOPHER		POURAZADI, SHAHRAM	3,120,717
OSMON, CYNTHIA J.	3,120,893	MICHAEL	3,120,356	POWERS, JAY PATRICK	3,120,196
OSSIMTECH INC.	3,120,656	PENG, JIANYU	3,101,296	PRABHAKAR, RAGHU	3,120,683
OSTEN, PAVEL	3,120,855	PENG, XIANFENG	3,120,397	PRABHAKAR, RAGHU	3,120,684
OSTEN, PAVEL	3,120,856	PENG, XIAOYONG	3,118,767	PRABHU, VINAY	3,120,672
OSWAL, ANAND	3,120,672	PEREZ ROMERO, PEDRO JOSE	3,120,820	PRABHU, VINAY	3,120,673
OSWAL, ANAND	3,120,685	PERKINELMER HEALTH		PRASAD, AVVARI KRISHNA	3,120,922
OTSUKA PHARMACEUTICAL		SCIENCES, INC.	3,120,195	PRASAD, JAHNAVI CHANDRA	3,120,360
FACTORY, INC.	3,120,839	PERKINELMER HEALTH		PRASAD, VIC	3,120,115
OTT, MATTHIAS	3,120,783	SCIENCES, INC.	3,120,347	PRESBYOPIA THERAPIES,	
OU, YURAN	3,120,788	PERKINELMER HEALTH		INC.	3,120,870
OUELLET, JIMMY	3,120,176	SCIENCES, INC.	3,120,967	PRESIDENT AND FELLOWS	
PACAK, JOHN	3,120,440	PERRIN, DOMINIQUE	3,120,106	OF HARVARD COLLEGE	3,120,864
PACKAGING AND CRATING		PERRON, FREDERIC	3,120,747	PRESIDENT AND FELLOWS	
TECHNOLOGIES, LLC	3,120,676	PERSEUS PROTEOMICS INC.	3,120,548	OF HARVARD COLLEGE	3,120,235
PAI, NALINAKSH	3,120,710	PERSONAL GENOME		PRESIEN PTY LTD	3,120,621
PAI, NALINAKSH	3,120,743	DIAGNOSTICS INC.	3,120,200	PRESTA, LEONARD G.	3,120,875
PAI, NALINAKSH	3,120,746	PERSSON, HENRIK	3,120,046	PREYER, MARTIN	3,120,800
PAI, SURESH SUBRAYA	3,120,224	PETROLEO BRASILEIRO S.A. -		PRICELIUS, SINA	3,120,360
PAILLE, DAMIEN	3,119,872	PETROBRAS	3,120,447	PRICKETT, ABIGAIL	3,120,761
PAJUNK GMBH		PETROSSIAN, TANYA	3,120,699	PRINOTH LTD	3,112,145
MEDIZINTECHNOLOGIE	3,120,150	PETROVA, JANA	3,120,742	PRINOTH S.P.A.	3,120,668
PAJUNK-SCHELLING,		PETUSHKOVA, NATAL'YA		PRİYADARSHAN, ESWAR	3,119,946
SIMONE	3,120,150	OLEGOVNA	3,120,501	PROBST, CHRISTOPHER	3,120,817
PAL, ARITRA	3,120,875	PFEIFFER, DANIEL	3,120,945	PROEHL, GERALD THOMAS	3,120,578
PALLINI, JOSEPH	3,120,330	PFIZER INC.	3,120,922	PROGENITY, INC.	3,120,619
PAN, JIANPING	3,120,331	PHILLIPS, DEAN PAUL	3,119,656	PROTRAN TECHNOLOGY,	
PAN, JIANPING	3,120,862	PHILLIPS, MICHAEL	3,120,711	LLC	3,120,060
PANNU, BALTEJ SINGH	3,120,663	PHROMMAO, EKKARAT	3,119,639	PROVINCIAL HEALTH	
PANPATIL, DAYANAND	3,120,718	PI-DESIGN AG	3,120,600	SERVICES AUTHORITY	3,120,770
PAOLETTI, ALBERTO	3,120,668	PICOLO, CLEMENTINE	3,120,812	PRUSKAUER, MARK ALAN	3,120,355
PAQUET, NICOLE	3,120,480	PIEROLE, MICHEL	3,120,902	PRUVOST, ALAIN	3,120,813
PARAMBATH		PIGAMO, ANNE MARIE	3,120,181	PRYSTUPA, DAVID	3,120,440
MUNDAYODAN, SUDEEP	3,120,921	PIJPER, BRENDA	3,120,816	PRZYBYSZ, JOHN X.	3,120,703

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PUCCI, FERDINANDO	3,120,282	RAMAREDDY, SHASHIDHAR	3,120,889	REYZIS, LEONID	3,120,853
PUCKACE, JAMES S.	3,120,104	RAMAREDDY, SHASHIDHAR	3,120,890	REZAEI, FARZANEH	3,120,608
PUDJIJANTO, STEPHEN T.	3,120,335	RAMENTOL MASSANA,		REZVANI, KATY	3,120,349
PUJALA, BRAHMAM	3,120,718	JORDI	3,120,920	RHEAUME, MICHEL	3,120,220
PURECIRCLE USA INC.	3,120,867	RAMIREZ, MARIO A.	3,120,094	RIBERA SANCHEZ, ALBERT	3,120,923
PUURA, JUSSI	3,120,809	RANDAZZO, BRUCE	3,120,237	RICHARDS, GARETH	3,119,882
PUURA, JUSSI	3,120,810	RANDESI, JAMES	3,120,707	RICHARDSON, FRANCOIS-	
PV SOLUTIONS, LLC	3,120,847	RANGASWAMY, SURAJ	3,120,672	DOMINIQUE	3,120,140
QIAN, XUEMING	3,120,793	RANGASWAMY, SURAJ	3,120,673	RICHIE, AARON PAUL	3,120,943
QIAO, ZHI	3,120,430	RANJAN SINHA, GOURAV	3,120,229	RICHTER, CHRISTIAN	3,120,149
QILU REGOR THERAPEUTICS		RANKIN, DAVID DANIEL, SR.	3,119,926	RIDER, MICHAEL	3,120,126
INC.	3,120,499	RANPAK CORP.	3,120,109	RIFENG ENTERPRISE	
QIN, LI	3,120,226	RAO, ROHINI	3,120,780	(FOSHAN) CO., LTD.	3,120,536
QMWARE AG	3,120,280	RAO, VIVEK S.	3,120,335	RIFENG ENTERPRISE GROUP	
QUALCOMM INCORPORATED	3,120,247	RAQUALIA PHARMA INC.	3,120,268	CO., LTD.	3,120,536
QUANTUM VALLEY IDEAS		RASTOGI, MUKUL	3,119,933	RIMINI STREEET, INC.	3,120,357
LABORATORIES	3,120,473	RAVEN INDUSTRIES, INC.	3,120,202	RIPAMONTI, STEFANIA	3,120,428
QUEVEDO ENRIQUEZ, JOSE		RAVICHANDRAN,		RIPPLE FOODS, PBC	3,120,384
ATILIO	3,120,939	VENKATESH		RIPPLE FOODS, PBC	3,120,803
QUICK TUBE MEDICAL, LLC	3,120,325	COIMBATORE	3,120,601	RISHER, BENNY	3,120,203
QUIGLEY, WILLIAM	3,120,857	RAVINDRANATHAN, SRUTHI	3,120,248	RITCHIE, BRADLEY CLARE	3,119,867
QUILLIA, GARRETT	3,120,790	RAYMAKERS, LEONARD	3,120,272	RIVAS, FRANCISCO	3,120,145
QUINN, CHRISTOPHER MARK	3,120,655	RAYMOND, CATHERINE	3,120,894	RIZO, ALEKSANDRA	3,120,704
QUINTANA, NELSON	3,120,619	RAYMOND, TIMOTHY G.	3,120,264	ROBBIE, SCOTT	3,120,824
QURESHI, MUHAMMAD ALI	3,120,824	RAYTHEON COMPANY	3,120,378	ROBERT BOSCH GMBH	3,120,147
R.J. REYNOLDS TOBACCO		RAYTHEON COMPANY	3,120,936	ROBERTS, JEVAWN	
COMPANY	3,120,735	RAZAVI, MEHDI	3,120,643	SEBASTIAN	3,120,636
RABAIOLI, MARIA ROBERTA	3,120,261	RB GLOBAL MOBILE		ROBERTS, MICHAEL	3,120,253
RACK, MICHAEL	3,120,221	SOLUTIONS, LLC	3,120,871	ROBINSON, PETER G.	3,120,335
RACTIGEN THERAPEUTICS	3,120,534	REACTIVE ROBOTICS GMBH	3,120,896	RODENBURG, ANTHONIUS C.	3,120,773
RADHAKRISHNAN,		READY, JOSEPH	3,120,858	RODEO THERAPEUTICS	
SARAVANAN	3,120,672	REBOUL, VINCENT	3,119,871	CORPORATION	3,120,858
RADIUS		REEVES, DENNIS	3,120,585	RODRIGUEZ, VINCENT	3,120,182
PHARMACEUTICALS,		REEVES, GREGORY	3,119,875	RODRIGUEZ, VINCENT	3,120,194
INC.	3,120,368	REEVES, GREGORY	3,119,880	ROESSLER, DENNIS	3,120,557
RADOSEVIC, PETRA	3,120,396	REEVES, NANEA	3,120,273	ROGAN, AARON MATTHEW	3,120,414
RAGATZ, ANDREW GEORGE	3,119,931	REFLEX RED STORM, LLC.	3,120,949	ROGAN, ANDREW ROBERT	
RAGUKUMAR, VIKRAM	3,120,710	REGENERON		JOHN	3,120,915
RAGUKUMAR, VIKRAM	3,120,743	PHARMACEUTICALS,		ROGERS, LANCE	3,120,630
RAGUKUMAR, VIKRAM	3,120,746	INC.	3,120,528	ROHDE, WOLFGANG	3,120,402
RAHMAN, MD. ATAUR	3,120,235	REGENERON		ROHRBERG, LARS	3,120,286
RAHMAN, Z. A.	3,120,084	PHARMACEUTICALS,		ROJAS, OLGA	3,120,454
RAHMAN, Z. A.	3,120,121	INC.	3,120,799	ROLEX SA	3,120,648
RAI STRATEGIC HOLDINGS,		REGES, CLINTON L.	3,120,180	ROLEX SA	3,120,650
INC.	3,120,425	REICHERT, HEINZ	3,120,945	ROMANO, ANTONIO	
RAI STRATEGIC HOLDINGS,		REIMER, JAY	3,120,097	ROSARIO	3,120,428
INC.	3,120,426	REINDEL, ERIC S.	3,120,184	ROMMELAERE, JEAN	3,120,421
RAI STRATEGIC HOLDINGS,		REISER, EVAN	3,120,469	ROOZ, MICHAEL	3,120,448
INC.	3,120,455	REN, PINGDA	3,120,383	ROQUETTE FRERES	3,120,956
RAI STRATEGIC HOLDINGS,		REN, YAN	3,120,726	ROSE, TRISTIN	3,120,699
INC.	3,120,541	RENSHAW, AUGUST ALLEN	3,120,129	ROSEN, BRANDON REID	3,120,196
RAJAGOPALAN, RAJKANNAN	3,119,910	RENSSELSER POLYTECHNIC		ROTHENBERG, PAUL	3,120,236
RAJARAMAN, KAIYANI	3,120,710	INSTITUTE	3,120,957	ROUGAB, SEDDIK	3,120,205
RAJARAMAN, KALYANI	3,120,743	RESENDES, RUI	3,120,661	ROUP, HERMAN	3,120,232
RAJARAMAN, KALYANI	3,120,746	RESHEFF, YEHEZKEL		ROUSSEAU, CEDRIC	3,120,787
RAKESTRAW, GINGER	3,120,358	SHRAGA	3,120,581	ROUSSEL, XAVIER	3,120,188
RAKIC, ALEKSANDRA	3,120,586	RESSEM, GEIR TERJE	3,120,416	ROWAN, SEAN	3,120,597
RAKOV, V. SERGEY	3,120,347	REVITOPÉ LIMITED	3,120,800	ROY, DANNY	3,120,654
RAMAKRISHNAIAH, SURESH	3,119,946	REY, STEPHANE	3,120,489	ROY, SATYAJIT	3,120,520
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INC.	3,120,096	SANZ HERRANZ, YOLANDA	3,120,905	SEGLER, DANIEL	3,120,945
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INC.	3,120,102	SARGENT, SHANE	3,120,898	SEIDL, KARSTEN	3,120,147
RUDICK, ARTHUR G.	3,120,670	SARIN, KAVITA YANG	3,120,336	SELVARAJ, JUSTIN ANTONY	3,120,638
RUDJER BOSKOVIC		SARIN, KAVITA YANG	3,120,351	SENSEONICS,	
INSTITUTE	3,120,396	SARTORI, SERGIO	3,120,537	INCORPORATED	3,120,776
RUDRARAJU, LAKSHMI	3,120,323	SARUTA, MAKOTO	3,120,745	SERIN, AMY	3,119,919
RUI JIN HOSPITAL		SASAMOTO, NAOKI	3,119,957	SERSTAD, JAMES M.	3,120,568
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RUSSELL, ERIC	3,120,475	SAUDER, TIMOTHY	3,120,346	SHAH, JAGESH VIJAYKUMAR	3,120,093
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RUZO MATIAS, ALBERT	3,120,282	SAULNIER, DAVID	3,120,887	SHAH, MANISH K.	3,120,684
RYLANDER, CHRISTOPHER	3,120,320	SAVILLE, JAMES	3,120,444	SHAH, MANISH RAMESH	3,120,338
SABIC SK NEXLENE		SAWAYA, STERLING	3,120,107	SHAH, MUNISH	3,120,714
COMPANY PTE. LTD.	3,120,265	SCEYE SA	3,120,921	SHAH, TAPAN	3,120,375
SADA, YOSHINAO	3,120,844	SCHACHT, BENNY	3,120,238	SHANG, KE	3,120,430
SADASIVAN VIJAYAKUMARI,		SCHAFFHAUSER, HERVE	3,120,638	SHANGHAI ENNOVABIO	
SIVAKUMAR	3,120,492	SCHARF, LOUISE	3,120,474	PHARMACEUTICALS CO.,	
SAEUBERLICH, TINO	3,120,818	SCHATTKA, JAN HENDRIK	3,120,479	LTD.	3,120,430
SAF-GARD SAFETY SHOE CO.	3,120,707	SHELLHORN, BIRGIT	3,120,902	SHANGHAI HENGRUI	
SAFRAN AIRCRAFT ENGINES	3,120,209	SCHIKORR, OLAF	3,120,896	PHARMACEUTICAL CO.,	
SAFRAN AIRCRAFT ENGINES	3,120,210	SCHILL, JULIAN	3,120,902	LTD.	3,120,793
SAFRAN AIRCRAFT ENGINES	3,120,212	SCHILLER, DAVID	3,120,345	SHANGHAI ZHONGYUAN	
SAFRAN ELECTRONICS &		SCHLAFER, RAMONA		FUEL RAIL	
DEFENSE	3,120,651	SUSANNA	3,120,896	MANUFACTURE CO., LTD	3,118,767
SAFRAN LANDING SYSTEMS	3,120,418	SCHLAGE LOCK COMPANY		SHANKAR, RAVI	3,120,374
SAGARA, KOJI	3,120,263	LLC	3,120,854	SHANKER, ASHUTOSH	3,120,710
SAHNI, PRAVEEN	3,120,357	SCHLEPPENBACH, DAVID A.	3,120,784	SHANKER, ASHUTOSH	3,120,743
SAHU, AMRITA	3,120,701	SCHNEIDER, PETER	3,120,902	SHANKER, ASHUTOSH	3,120,746
SAIH, YOUSSEF	3,120,559	SCHOELLER ALLIBERT		SHARMA, AMINISH	3,120,338
SAINT-GOBAIN ECOPHON AB	3,120,907	GMBH	3,120,641	SHARMA-KANNING, AARTI	3,120,799
SAINT-GOBAIN GLASS		SCHOENBRUNNER, ERHARD		SHASHIKANT RAO,	
FRANCE	3,120,332	RALF	3,120,967	SHASHANK	3,120,597
SAINT-GOBAIN GLASS		SCHOENFELDER, LUKE		SHAW, DANIEL	3,120,444
FRANCE	3,120,333	ANDREW	3,120,640	SHCHERBIAK, GRYGORII	3,120,594
SAITO, SANSHIRO	3,120,263	SCHOONEBEEK, RONALD		SHEFFER, YARON	3,120,448
SALAS, DIEGO	3,120,547	JAN	3,120,625	SHEFFER, YARON	3,120,581
SALT, NICHOLAS MARK	3,120,619	SCHOUWENAAR, ROBERT	3,120,939	SHELL INTERNATIONALE	
SALZER, JAMES	3,120,614	SCHREIBMULLER, NICOLAS	3,120,945	RESEARCH	
SAMANTA, SUSNATA	3,120,955	SCHREINER, ROBERT	3,120,147	MAATSCHAPPIJ B.V.	3,120,492
SAMBANOVA SYSTEMS, INC.	3,120,683	SCHRICKER, RALF	3,120,625	SHELL INTERNATIONALE	
SAMBANOVA SYSTEMS, INC.	3,120,684	SCHRODER, DETLEF	3,120,807	RESEARCH	
SAMSUNG BIOEPIS CO., LTD.	3,120,190	SCHROEDER, TAYLOR	3,120,205	MAATSCHAPPIJ B.V.	3,120,625
SAN NICOLAS, SAMUEL		SCHROEER, TOBIAS	3,120,818	SHELL INTERNATIONALE	
JAMES	3,120,112	SCHUBERT, HOLGER		RESEARCH	
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ANGEL	3,120,920	SCHULTZ, BRADLEY	3,120,698	SHENZHEN CHIPSCREEN	
SANCHEZ ORDONEZ,		SCHUT, PETER ALEXANDER	3,120,625	BIOSCIENCES CO., LTD.	3,120,206
SAMUEL	3,120,178	SCHWARTZ, ERIK	3,120,303	SHENZHEN CHIPSCREEN	
SANCHEZ-CAMARILLO,		SCHWARTZ, ERIK	3,120,594	BIOSCIENCES CO., LTD.	3,120,207
FRANCO	3,120,267	SCHWARTZENTRUBER,		SHI, CONG	3,120,719
SANDERS, CHRISTOPHER	3,120,340	RANDALL	3,120,449	SHI, CONG	3,120,900
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SHIN, DONGCHEOL	3,120,265	NESTLE S.A.	3,120,406	STEVENS, NIA ELERI	3,120,619
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SHIR, FARHAD	3,120,379	SOERENSEN, CAECILIE	3,120,415	STOBBE, ERWIN RODERICK	3,120,625
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SHIVELY, DEVIN	3,120,468	SOLE, IVAN ALMARAL	3,120,640	VEDRANA	3,120,236
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SIMBE ROBOTICS, INC	3,120,688	UNIVERSITY	3,120,909	SU, YONGLI	3,120,196
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SIMON, JORGE	3,120,842	SPARROW		BALAKRISHNA	3,120,888
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SINHA, RANJEET	3,120,695	SPECTRUM SOLUTIONS L.L.C.	3,120,086	SUGAHARA, TAKAHIRO	3,120,953
SINUR, RICHARD R.	3,120,205	SPECTRUM SOLUTIONS, LLC	3,120,708	SUGINO, MASAACKI	3,120,752
SIRIS, GENRICH	3,120,147	SPEICHER, ERIN	3,120,365	SUMI, KENGO	3,120,751
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TAM, HOK HEI	3,109,958	THE INTERDISCIPLINARY		TIAN, WEI-TING	3,120,211
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