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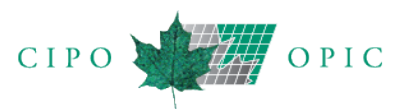
du Bureau des brevets



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Canada



THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

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

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

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

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

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

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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3. Précisions concernant les formats électroniques acceptés
4. Renseignements généraux
5. Prorogation des délais
6. Procédures en cas de fermeture imprévue des bureaux de l'OPIC

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

Avis

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 MailTM and XpresspostTM 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 MailTM and XpresspostTM services of Canada Post are designated establishments or designated offices to which

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

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

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

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

2. Electronic Correspondence

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

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

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

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

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

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

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

2. Correspondance électronique

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

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

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

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

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

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open for business.

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

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Patents

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

2.2 Online

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

Patents

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

Trademarks

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

Brevets

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

2.2 En ligne

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

Brevets

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

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

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

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

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

Marques de commerce

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

Avis

accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

Copyright

:

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

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

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

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

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

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

Droits d'auteur

Notices

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

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

Industrial Designs

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

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

Integrated Circuit Topographies

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

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

2.3 Electronic medium

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

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

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

Dessins industriels

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

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

Topographies de circuits intégrés

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

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Notices

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

Trademarks

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

Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Marques de commerce

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

Dessins industriels

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

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

Notices

4. General Information

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

5. Time Period Extensions

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

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

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

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

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

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

4. Renseignements généraux

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

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

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

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé^{MC}, ou par Xpresspost^{MC} de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé^{MC}, par Xpresspost^{MC} ou par voie électronique en utilisant les liens spécifiés à [l'article 2.2](#) des présentes procédures de correspondance. Il est toujours

Notices

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

8. Intellectual property acts, rules and regulations

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

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

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

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

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

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

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

Marques de commerce

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

Avis

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of March 15, 2022 contains applications open to public inspection from February 27, 2022 to March 5, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 15 mars 2022 contient les demandes disponibles au public pour consultation pour la période du 27 février 2022 au 5 mars 2022.

Canadian Patents Issued

March 15, 2022

Brevets canadiens délivrés

15 mars 2022

[11] **2,723,999**
[13] C

[51] **Int.Cl. C12N 7/04 (2006.01) A61K 39/12 (2006.01) C07K 14/18 (2006.01)**

[25] EN

[54] **PESTIVIRUS REPLICONS PROVIDING AN RNA-BASED VIRAL VECTOR SYSTEM**

[54] **REPLICONS DE PESTIVIRUS FOURNISSANT UN SYSTEME DE VECTEUR VIRAL A BASE D'ARN**

[72] TRATSCHIN, JON DURI, CH

[72] RUGGLI, NICOLAS, CH

[72] MCCULLOUGH, KENNETH CHARLES, CH

[73] INSTITUT FUR VIROLOGIE UND IMMUNOLOGIE(IVI), CH

[85] 2010-11-10

[86] 2009-05-30 (PCT/EP2009/003892)

[87] (WO2009/146867)

[30] EP (08010222.1) 2008-06-04

[11] **2,749,661**
[13] C

[51] **Int.Cl. G01D 9/00 (2006.01) B64D 43/00 (2006.01) G07C 5/08 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR GENERATING A DATA SET**

[54] **PROCEDE ET SYSTEME POUR GENERER UN ENSEMBLE DE DONNEES**

[72] BORDELEAU, FRANCOIS, CA

[72] MOOD, JAMES, US

[72] DUHAMEL, PIERRE, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2749661)

[87] (2749661)

[22] 2011-08-19

[30] US (61/375577) 2010-08-20

[11] **2,783,965**
[13] C

[51] **Int.Cl. C12N 1/14 (2006.01) A01N 43/90 (2006.01) A01P 3/00 (2006.01) A61K 31/357 (2006.01) A61P 31/10 (2006.01) C07D 493/08 (2006.01) C12P 17/18 (2006.01)**

[25] EN

[54] **FUNGICIDAL COMPOUNDS AND METHODS OF THEIR USE**

[54] **COMPOSITIONS FONGICIDES ET LEURS PROCEDES D'UTILISATION**

[72] VILLAS-BOAS, SILAS GRANATO, NZ

[73] AUCKLAND UNISERVICES LIMITED, NZ

[85] 2012-06-11

[86] 2010-12-09 (PCT/NZ2010/000249)

[87] (WO2011/071396)

[30] NZ (581846) 2009-12-09

[30] NZ (584694) 2010-04-16

[11] **2,798,331**
[13] C

[51] **Int.Cl. A61K 39/02 (2006.01) C07K 14/20 (2006.01)**

[25] EN

[54] **OSPA CHIMERAS AND USE THEREOF IN VACCINES**

[54] **GENES OSPA CHIMERES, PROTEINES ET PROCEDES D'UTILISATION ASSOCIES**

[72] CROWE, BRIAN A., AT

[72] LIVEY, IAN, AT

[72] O'ROURKE, MARIA, AT

[72] SCHWENDINGER, MICHAEL, AT

[73] BAXALTA INCORPORATED, US

[73] BAXALTA GMBH, CH

[85] 2012-11-01

[86] 2011-05-13 (PCT/US2011/036525)

[87] (WO2011/143617)

[30] US (61/334,901) 2010-05-14

[11] **2,808,606**
[13] C

[51] **Int.Cl. A61N 2/04 (2006.01) A61N 1/36 (2006.01) A61N 1/40 (2006.01)**

[25] EN

[54] **NON-INVASIVE TREATMENT OF BRONCHIAL CONSTRICTION**

[54] **TRAITEMENT NON INVASIF D'UNE BRONCHOCONSTRICTION**

[72] SIMON, BRUCE, US

[72] ERRICO, JOSEPH, US

[72] RAFFLE, JOHN, US

[72] MENDEZ, STEVEN, US

[73] ELECTROCORE LLC, US

[85] 2013-02-18

[86] 2011-08-12 (PCT/US2011/047509)

[87] (WO2012/024169)

[30] US (12/859,568) 2010-08-19

[11] **2,816,722**
[13] C

[51] **Int.Cl. C12N 15/26 (2006.01) A61P 37/02 (2006.01) C07K 14/55 (2006.01) C07K 17/08 (2006.01)**

[25] EN

[54] **CONJUGATES OF AN IL-2 MOIETY AND A POLYMER**

[54] **CONJUGUES D'UNE FRACTION IL-2 ET D'UN POLYMERE**

[72] BOSSARD, MARY J., US

[72] ALI, CHERIE F., US

[72] LIU, XIAOFENG, US

[72] CHARYCH, DEBORAH H., US

[72] WANG, YUJUN, US

[73] NEKTAR THERAPEUTICS, US

[85] 2013-05-01

[86] 2011-11-11 (PCT/US2011/060408)

[87] (WO2012/065086)

[30] US (61/413,236) 2010-11-12

**Brevets canadiens délivrés
15 mars 2022**

[11] **2,821,370**
[13] C

[51] **Int.Cl. C07K 1/16 (2006.01) C07K 14/765 (2006.01)**

[25] EN

[54] **METHOD FOR PURIFYING HUMAN SERUM ALBUMIN FROM TRANSGENIC RICE GRAIN**

[54] **PROCEDE POUR PURIFIER LA SERUM-ALBUMINE HUMAINE A PARTIR DE GRAIN DE RIZ TRANSGENIQUE**

[72] YANG, DAICHANG, CN

[72] HE, YANG, CN

[72] LI, GUANGFEI, CN

[72] LIU, JINGRU, CN

[73] WUHAN HEALTHGEN BIOTECHNOLOGY CORP., CN

[85] 2013-06-12

[86] 2011-08-18 (PCT/CN2011/001374)

[87] (WO2012/083580)

[30] CN (201010606635.8) 2010-12-24

[11] **2,832,324**
[13] C

[51] **Int.Cl. A61K 31/122 (2006.01) A61K 9/10 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07C 50/28 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CENTRAL NERVOUS SYSTEM TUMORS**

[54] **METHODES DE TRAITEMENT DE TUMEURS DU SYSTEME NERVEUX CENTRAL**

[72] JIMENEZ, JOAQUIN J., US

[72] NARAIN, NIVEN RAJIN, US

[72] SARANGARAJAN, RANGAPRASAD, US

[72] MCCOOK, JOHN PATRICK, US

[73] BERG LLC, US

[85] 2013-10-03

[86] 2012-04-04 (PCT/US2012/032178)

[87] (WO2012/138765)

[30] US (61/471,659) 2011-04-04

[11] **2,836,309**
[13] C

[51] **Int.Cl. H02K 1/27 (2022.01) H02K 1/08 (2006.01)**

[25] EN

[54] **SWITCHED RELUCTANCE MACHINE WITH ROTOR EXCITATION USING PERMANENT MAGNETS**

[54] **MACHINE A RELUCTANCE COMMUTEE A EXCITATION ROTORIQUE UTILISANT DES AIMANTS PERMANENTS**

[72] BILGIN, BERKER, CA

[72] EMADI, ALI, CA

[73] ENEDYM INC., CA

[86] (2836309)

[87] (2836309)

[22] 2013-12-11

[30] US (61/735,620) 2012-12-11

[11] **2,840,833**
[13] C

[51] **Int.Cl. B32B 3/30 (2006.01) B32B 11/00 (2006.01) B32B 37/18 (2006.01) E04D 1/22 (2006.01) E04D 1/28 (2006.01)**

[25] EN

[54] **HYBRID COMPOSITE SHINGLES**

[54] **BARDEAUX EN COMPOSITE HYBRIDES**

[72] BEERER, MARGIE A., US

[72] KHK, MATTI, US

[72] RAILKAR, SUDHIR, US

[73] BUILDING MATERIALS INVESTMENT CORPORATION, US

[86] (2840833)

[87] (2840833)

[22] 2014-01-28

[30] US (61/758,137) 2013-01-29

[11] **2,847,947**
[13] C

[51] **Int.Cl. C09K 8/035 (2006.01) C09K 8/04 (2006.01) E21B 37/06 (2006.01)**

[25] EN

[54] **PETROLEUM RESIN ANTI-ACCRETION ADDITIVES, DRILLING FLUID COMPOSITIONS AND METHODS OF USE THEREOF**

[54] **ADDITIFS ANTI-ACCRETION POUR RESINE DE PETROLE, COMPOSITIONS DE FLUIDE DE FORAGE ET LEURS PROCEDES D'UTILISATION**

[72] HORTON, DAVID P., CA

[73] ENGENIUM CHEMICALS CORP., CA

[86] (2847947)

[87] (2847947)

[22] 2014-03-26

[30] US (61/805,375) 2013-03-26

[11] **2,848,023**
[13] C

[51] **Int.Cl. C07H 21/00 (2006.01) C12Q 1/6876 (2018.01) C40B 40/06 (2006.01) C40B 50/06 (2006.01) C40B 50/14 (2006.01) C40B 50/16 (2006.01) C40B 70/00 (2006.01)**

[25] EN

[54] **METHODS FOR TAGGING DNA-ENCODED LIBRARIES**

[54] **PROCEDES DE MARQUAGE DE BANQUES CODEES PAR DE L'ADN**

[72] KEEFE, ANTHONY D., US

[72] WAGNER, RICHARD W., US

[72] LITOVCHICK, ALEXANDER, US

[72] CLARK, MATTHEW, US

[72] CUOZZO, JOHN W., US

[72] CENTRELLA, PAOLO A., US

[72] ZHANG, YING, US

[72] HUPP, CHRISTOPHER D., US

[73] X-CHEM, INC., US

[85] 2014-03-06

[86] 2012-09-07 (PCT/US2012/054228)

[87] (WO2013/036810)

[30] US (61/531,820) 2011-09-07

[30] US (61/536,929) 2011-09-20

**Canadian Patents Issued
March 15, 2022**

[11] **2,851,658**
[13] C

[51] **Int.Cl. C12N 15/86 (2006.01) A61K 39/245 (2006.01) C12N 7/01 (2006.01) C12N 15/869 (2006.01)**

[25] EN

[54] **RECOMBINANT NON-PATHOGENIC MAREK'S DISEASE VIRUS CONSTRUCTS ENCODING INFECTIOUS LARYNGOTRACHEITIS VIRUS AND NEWCASTLE DISEASE VIRUS ANTIGENS**

[54] **PRODUITS DE RECOMBINAISON D'UN VIRUS NON PATHOGENE DE LA MALADIE DE MAREK QUI CODENT DES ANTIGENES DU VIRUS INFECTIEUX DE LA LARYNGOTRACHEITE ET DU VIRUS DE LA MALADIE DE NEWCASTLE**

[72] COOK, STEPHANIE, US
[72] MORSEY, MOHAMAD, US
[72] PETERSEN, GARY, US
[72] SONDERMEIJER, PAULUS JACOBUS ANTONIUS, NL
[73] INTERVET INTERNATIONAL B.V., NL
[85] 2014-04-09
[86] 2012-10-19 (PCT/EP2012/070728)
[87] (WO2013/057236)
[30] US (61/549,844) 2011-10-21

[11] **2,853,000**
[13] C

[51] **Int.Cl. C12N 9/24 (2006.01)**

[25] EN

[54] **GLUCOAMYLASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME**

[54] **VARIANTS DE GLUCOAMYLASE ET POLYNUCLEOTIDES LES ENCODANT**

[72] FRIIS, ESSEN PETER, DK
[72] DE MARIA, LEONARDO, DK
[72] VIND, JESPER, DK
[72] POULSEN, THOMAS A., DK
[72] SVENDSEN, ALLAN, DK
[72] DANIELSEN, STEFFEN, DK
[72] LENHARD, ROLF T., DK
[72] FRIIS-MADSEN, HENRIK, DK
[72] SKOV, LARS K., DK
[73] NOVOZYMES A/S, DK
[85] 2014-04-10
[86] 2012-10-11 (PCT/EP2012/070127)
[87] (WO2013/053801)
[30] US (61/545,628) 2011-10-11

[11] **2,853,456**
[13] C

[51] **Int.Cl. E02D 5/54 (2006.01) E02D 5/56 (2006.01) E02D 5/80 (2006.01) E02D 13/00 (2006.01)**

[25] EN

[54] **HELICAL SCREW PILE**

[54] **PIEU A VIS HELICOIDALES**

[72] LUTENEGGER, ALAN J., US
[72] SEIDER, GARY L., US
[73] HUBBELL INCORPORATED, US
[85] 2014-04-24
[86] 2012-10-24 (PCT/US2012/061564)
[87] (WO2013/063024)
[30] US (13/280,434) 2011-10-25

[11] **2,855,920**
[13] C

[51] **Int.Cl. B01J 37/08 (2006.01) B01J 23/755 (2006.01) B01J 32/00 (2006.01) C01B 3/58 (2006.01)**

[25] EN

[54] **SUPPORT FOR SUPPORTING METALS, METAL-SUPPORTED CATALYST, METHANATION REACTION APPARATUS, AND METHOD RELATING TO THESE**

[54] **SUPPORT POUR SUPPORTER DES METAUX, CATALYSEUR A METAL SUPPORTE, APPAREIL DE REACTION DE METHANATION ET PROCEDE SE RAPPORTANT A CEUX-CI**

[72] OZAKI, JUN-ICHI, JP
[72] TAKAHASHI, HIROKI, JP
[72] TAKAHASHI, TAKUYA, JP
[72] KANNARI, NAOKATSU, JP
[72] KOBAYASHI, RIEKO, JP
[72] SAITO, NAOTO, JP
[73] NATIONAL UNIVERSITY CORPORATION GUNMA UNIVERSITY, JP
[73] NISSHINBO HOLDINGS INC., JP
[85] 2014-05-14
[86] 2012-11-01 (PCT/JP2012/078385)
[87] (WO2013/077165)
[30] JP (2011-257842) 2011-11-25

[11] **2,859,304**
[13] C

[51] **Int.Cl. H05B 45/00 (2022.01) H05B 45/40 (2020.01) H05B 47/18 (2020.01) H04L 12/413 (2006.01) H04L 12/417 (2006.01)**

[25] EN

[54] **LIGHTING SYSTEM AND METHOD OF RETRIEVING STATUS INFORMATION OF A LIGHTING SYSTEM**

[54] **SYSTEME D'ECLAIRAGE ET PROCEDE DE RECUPERATION D'INFORMATIONS D'ETAT D'UN SYSTEME D'ECLAIRAGE**

[72] SAES, MARC, NL
[73] ELDOLAB HOLDING B.V., NL
[85] 2014-06-13
[86] 2012-12-20 (PCT/NL2012/050906)
[87] (WO2013/095133)
[30] US (61/578,397) 2011-12-21
[30] NL (2008017) 2011-12-22

[11] **2,861,036**
[13] C

[51] **Int.Cl. B22F 1/145 (2022.01) H01M 4/04 (2006.01) H01M 4/36 (2006.01)**

[25] EN

[54] **STABILIZED LITHIUM METAL IMPRESSIONS COATED WITH ALLOY-FORMING ELEMENTS AND METHOD FOR PRODUCTION THEREOF**

[54] **MOULAGES A BASE DE METAL LITHIUM STABILISES, REVETUS D'ELEMENTS FORMANT DES ALLIAGES ET LEUR PROCEDE DE PRODUCTION**

[72] WIETELMANN, ULRICH, DE
[72] HARTNIG, CHRISTOPH, DE
[72] EMMEL, UTE, DE
[73] ALBEMARLE GERMANY GMBH, DE
[85] 2014-07-11
[86] 2013-01-14 (PCT/EP2013/050570)
[87] (WO2013/104787)
[30] DE (10 2012 200 479.3) 2012-01-13

**Brevets canadiens délivrés
15 mars 2022**

[11] **2,861,697**
[13] C

[51] **Int.Cl. C12N 1/15 (2006.01) C12N 9/58 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **PROTEASE DEFICIENT FILAMENTOUS FUNGAL CELLS AND METHODS OF USE THEREOF**
[54] **CELLULES FONGIQUES FILAMENTEUSES DEFICIENTES EN PROTEASE ET PROCEDES D'UTILISATION DE CELLES-CI**
[72] LANDOWSKI, CHRISTOPHER, FI
[72] HUUSKONEN, ANNE, FI
[72] SAARINEN, JUHANI, FI
[72] WESTERHOLM-PARVINEN, ANN, FI
[72] KANERVA, ANNE, FI
[72] NATUNEN, JARI, FI
[72] HANNINEN, ANNA-LIISA, FI
[72] SALOVUORI, NOORA, FI
[72] PENTTILA, MERJA, FI
[72] SALOHEIMO, MARKKU, FI
[73] GLYKOS FINLAND OY, FI
[85] 2014-06-26
[86] 2013-01-04 (PCT/EP2013/050126)
[87] (WO2013/102674)
[30] US (61/583,559) 2012-01-05

[11] **2,863,418**
[13] C

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **A MULTI-BIOMARKER-BASED OUTCOME RISK STRATIFICATION MODEL FOR ADULT SEPTIC SHOCK**
[54] **MODELE DE STRATIFICATION DES RISQUES, FONDE SUR DE MULTIPLES BIOMARQUEURS, CONCERNANT L'ISSUE D'UN CHOC SEPTIQUE CHEZ L'ADULTE**
[72] WONG, HECTOR R., US
[72] LINDSELL, CHRISTOPHER JOHN, US
[73] CHILDREN'S HOSPITAL MEDICAL CENTER, US
[85] 2014-07-30
[86] 2013-02-07 (PCT/US2013/025221)
[87] (WO2013/119869)
[30] US (61/595,996) 2012-02-07
[30] US (61/721,705) 2012-11-02

[11] **2,864,288**
[13] C

[51] **Int.Cl. H04W 76/14 (2018.01)**
[25] EN
[54] **COMMUNICATION DEVICE, COMMUNICATION METHOD, PROGRAM, AND COMMUNICATION SYSTEM**
[54] **APPAREIL DE COMMUNICATION, PROCEDE DE COMMUNICATION, PROGRAMME ET SYSTEME DE COMMUNICATION**
[72] KAWAKAMI, DAISUKE, JP
[72] SUZUKI, HIDEYUKI, JP
[72] ITOH, KATSUTOSHI, JP
[73] SONY CORPORATION, JP
[85] 2014-08-11
[86] 2013-02-05 (PCT/JP2013/052586)
[87] (WO2013/136876)
[30] JP (2012-060673) 2012-03-16

[11] **2,864,922**
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/06 (2006.01) A61B 18/12 (2006.01)**
[25] EN
[54] **MAPPING FORCE AND TEMPERATURE FOR A CATHETER**
[54] **MAPPAGE D'UNE FORCE ET D'UNE TEMPERATURE POUR UN CATHETHER**
[72] GOVARI, ASSAF, IL
[72] BEECKLER, CHRISTOPHER THOMAS, IL
[73] BIOSENSE WEBSTER (ISRAEL) LTD., IL
[86] (2864922)
[87] (2864922)
[22] 2014-09-24
[30] US (14/058,325) 2013-10-21

[11] **2,865,659**
[13] C

[51] **Int.Cl. H01R 4/38 (2006.01)**
[25] EN
[54] **RECEPTACLE WITH TERMINAL HOLD-OPEN DETENT**
[54] **RECEPTACLE A DETENTE DE MAINTIEN D'OUVERTURE TERMINALE**
[72] LAURENT, MAXIM, US
[73] LEVITON MANUFACTURING CO., INC., US
[86] (2865659)
[87] (2865659)
[22] 2014-09-22
[30] US (14/033,745) 2013-09-23

[11] **2,866,606**
[13] C

[51] **Int.Cl. A23L 33/12 (2016.01) A23L 33/00 (2016.01) A23L 33/10 (2016.01) A61K 31/202 (2006.01) A61P 15/08 (2006.01)**
[25] EN
[54] **METHODS FOR ENHANCING, IMPROVING, OR INCREASING FERTILITY OR REPRODUCTIVE FUNCTION**
[54] **METHODES D'ACCELERATION, D'AMELIORATION OU D'ACCROISSEMENT DE LA FERTILITE OU DE LA FONCTION REPRODUCTRICE**
[72] PUDER, MARK, US
[72] NEHRA, DEEPIKA, US
[72] RUEDA, BO R, US
[73] CHILDREN'S MEDICAL CENTER CORPORATION, US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2014-09-05
[86] 2013-03-07 (PCT/US2013/029553)
[87] (WO2013/134482)
[30] US (61/607,884) 2012-03-07
[30] US (61/695,510) 2012-08-31

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[13] C

[51] **Int.Cl. B65D 23/02 (2006.01) B08B 17/06 (2006.01)**
[25] EN
[54] **SELF-LUBRICATING SURFACES FOR FOOD PACKAGING AND FOOD PROCESSING EQUIPMENT**
[54] **SURFACES AUTOLUBRIFIANTES POUR CONDITIONNEMENT ALIMENTAIRE ET EQUIPEMENT DE TRANSFORMATION DE PRODUITS ALIMENTAIRES**
[72] SMITH, JONATHAN DAVID, US
[72] DHIMAN, RAJEEV, US
[72] PAXSON, ADAM T., US
[72] LOVE, CHRISTOPHER J., US
[72] SOLOMON, BRIAN R., US
[72] VARANASI, KRIPA K., US
[73] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2014-09-09
[86] 2012-06-13 (PCT/US2012/042326)
[87] (WO2013/141888)
[30] US (61/614,941) 2012-03-23
[30] US (61/651,545) 2012-05-24

[11] **2,867,825**
[13] C

[51] **Int.Cl. F16D 1/08 (2006.01) F16B 3/00 (2006.01) F16B 4/00 (2006.01)**
[25] EN
[54] **COUPLER ASSEMBLY**
[54] **ENSEMBLE D'ACCOUPLLEMENT**
[72] FLATLEY, ZACHARY T., US
[72] ALTHOFF, BRIAN J., US
[72] HORSTMAN, NATHAN J., US
[72] LUONG, JAMES HUNG QUOC NGUYEN, CA
[72] BOHNER, STEPHAN ERNST, CA
[73] DEERE & COMPANY, US
[86] (2867825)
[87] (2867825)
[22] 2014-10-17
[30] US (14/068,423) 2013-10-31

[11] **2,868,157**
[13] C

[51] **Int.Cl. B65D 75/02 (2006.01)**
[25] EN
[54] **PACKAGING CONTAINER FOR CAR FLOOR MATS**
[54] **CONTENANT DE CONDITIONNEMENT DE TAPIS D'AUTO**
[72] MATTHEWS, GILES FREDERICK, AU
[72] HUNT, NATHANAEL ANDREW, AU
[72] BROWN, WARWICK JAMES, AU
[73] WHO-RAE AUSTRALIA LLC, US
[86] (2868157)
[87] (2868157)
[22] 2014-10-22
[30] AU (2014902827) 2014-07-22

[11] **2,869,173**
[13] C

[51] **Int.Cl. H05K 7/20 (2006.01) H04W 88/02 (2009.01) H02J 7/00 (2006.01)**
[25] EN
[54] **DISPLAY INTERFACE TEMPERATURE COMPENSATION**
[54] **COMPENSATION DE TEMPERATURE A INTERFACE D'AFFICHAGE**
[72] KIMBRELL, JACOB WARREN, US
[73] BLACKBERRY LIMITED, CA
[86] (2869173)
[87] (2869173)
[22] 2014-10-31
[30] US (14/069,462) 2013-11-01

[11] **2,869,998**
[13] C

[51] **Int.Cl. C12Q 1/00 (2006.01) C12Q 1/28 (2006.01)**
[25] EN
[54] **METHOD FOR MEASURING COMPONENT TO BE MEASURED IN SPECIMEN**
[54] **PROCEDE DE MESURE DE COMPOSANT A MESURER CONTENU DANS UN CORPS A ANALYSER**
[72] KUWATA, HIDEYUKI, JP
[72] ARATAKE, TOMOKO, JP
[72] KINJO, KENTA, JP
[73] HITACHI CHEMICAL DIAGNOSTICS SYSTEMS CO., LTD., JP
[85] 2014-10-08
[86] 2013-04-18 (PCT/JP2013/061530)
[87] (WO2013/161677)
[30] JP (2012-103258) 2012-04-27
[30] JP (2012-119584) 2012-05-25

[11] **2,874,679**
[13] C

[51] **Int.Cl. A61B 5/1495 (2006.01) A61B 5/1455 (2006.01) A61B 5/1459 (2006.01) G01N 33/483 (2006.01) G01N 33/53 (2006.01) G01N 33/66 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMICALLY CALIBRATING AND MEASURING ANALYTE CONCENTRATION IN DIABETES MANAGEMENT MONITORS**
[54] **SYSTEME ET PROCEDE DE CALIBRAGE ET DE MESURE DYNAMIQUES DE LA CONCENTRATION D'ANALYTES DANS DES MONITEURS DE GESTION DU DIABETE**
[72] EDNEY, PAUL, US
[72] ZHENG, LING, US
[72] PETISCE, JAMES, US
[73] BECTON, DICKINSON AND COMPANY, US
[86] (2874679)
[87] (2874679)
[22] 2014-12-15
[30] US (61/921,309) 2013-12-27
[30] US (14/448,867) 2014-07-31

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[11] **2,874,715**
[13] C

[51] **Int.Cl. H04N 5/232 (2006.01) H04N 21/20 (2011.01) H04N 21/80 (2011.01) H04N 7/15 (2006.01)**

[25] EN

[54] **DYNAMIC VIDEO AND SOUND ADJUSTMENT IN A VIDEO CONFERENCE**

[54] **REGLAGE DYNAMIQUE DE LA VIDEO ET DU SON DANS UNE VIDEOCONFERENCE**

[72] DE MAGALHAES, ARTHUR L., CA

[73] IBM CANADA LIMITED - IBM CANADA LIMITEE, CA

[86] (2874715)

[87] (2874715)

[22] 2014-12-15

[11] **2,876,763**
[13] C

[51] **Int.Cl. B67D 7/36 (2010.01) B67D 7/32 (2010.01) B60P 3/22 (2006.01)**

[25] EN

[54] **APPARATUS FOR HAZARDOUS-FLUID DELIVERY VEHICLE AND STORAGE TANK**

[54] **APPAREIL POUR VEHICULE DE LIVRAISON ET RESERVOIR DE STOCKAGE DE FLUIDES DANGEREUX**

[72] MAKKONEN, NEAL A., CA

[73] MAKKONEN, NEAL A., CA

[86] (2876763)

[87] (2876763)

[22] 2015-01-05

[11] **2,879,043**
[13] C

[51] **Int.Cl. B66F 7/14 (2006.01) A47F 5/00 (2006.01) B65G 1/00 (2006.01) B66F 3/08 (2006.01) B66F 3/22 (2006.01) B66F 9/02 (2006.01) B66F 9/065 (2006.01)**

[25] EN

[54] **PALLET LIFTING SYSTEM**

[54] **SYSTEME DE LEVAGE DE PALETTE**

[72] TAYLOR, CURTIS, US

[72] MISENER, AARON, US

[72] UNNERSTALL, ROBERT H., JR., US

[72] RATTINI, THOMAS L., US

[72] MYLER, ROBERT, US

[73] LIFT2SELL, LLC, US

[86] (2879043)

[87] (2879043)

[22] 2015-01-22

[30] US (61/930,140) 2014-01-22

[11] **2,880,059**
[13] C

[51] **Int.Cl. E01C 5/06 (2006.01)**

[25] EN

[54] **PROCEDURE FOR CONSTRUCTION OF PAVEMENTS AND RESULTING PAVEMENT**

[54] **PROCEDURE DE CONSTRUCTION DE CHAUSSEES ET CHAUSSEE RESULTANTE**

[72] RODRIGUEZ MARTIN, CARLOS, ES

[73] ZORUTEK, S.L.L., ES

[86] (2880059)

[87] (2880059)

[22] 2015-01-26

[30] ES (P201430159) 2014-02-07

[11] **2,880,640**
[13] C

[51] **Int.Cl. E06B 9/24 (2006.01)**

[25] EN

[54] **SYSTEM FOR BIASING SHEET OF MATERIAL TO GATHER IN PREDETERMINED DIRECTION**

[54] **SYSTEME D'INCLINAISON DE FEUILLE DE MATERIAU A ORIENTER DANS UNE DIRECTION PREDETERMINEE**

[72] GEIST, JEFF S., US

[72] MOSS, GARY E., US

[72] RHODES, GALEN B., US

[72] SMITH, KENT A., US

[72] WILSON, BRIAN C., US

[73] HUNTER DOUGLAS INC., US

[86] (2880640)

[87] (2880640)

[22] 2015-02-02

[30] US (61/935,174) 2014-02-03

[11] **2,881,255**
[13] C

[51] **Int.Cl. F04B 53/10 (2006.01) F04B 17/00 (2006.01) F16K 15/02 (2006.01) F16K 15/18 (2006.01) F16K 31/06 (2006.01) F16K 31/72 (2006.01) F25B 1/02 (2006.01)**

[25] EN

[54] **COMPRESSOR WITH MAGNETICALLY ACTUATED VALVE ASSEMBLY**

[54] **COMPRESSEUR AVEC ENSEMBLE SOUPEPE A COMMANDE MAGNETIQUE**

[72] FISENI, ALEXANDER FELIX, DE

[72] DEY, SUBHRAJIT, IN

[72] BOELD, CHRISTOPH, DE

[72] BHAKTA, ADITYA, IN

[72] DHAR, SANDEEP, IN

[73] HAIER US APPLIANCE SOLUTIONS, INC., US

[86] (2881255)

[87] (2881255)

[22] 2015-02-05

[30] IN (629/CHE/2014) 2014-02-11

[30] IN (629/CHE/2014) 2014-02-24

[11] **2,882,641**
[13] C

[51] **Int.Cl. E04D 1/12 (2006.01) B32B 37/26 (2006.01) B32B 11/00 (2006.01)**

[25] EN

[54] **LIQUID RELEASE AGENT AND ASSOCIATED METHODS OF APPLICATION**

[54] **AGENT DE LIBERATION DE LIQUIDE ET METHODES D'APPLICATION ASSOCIEES**

[72] HUMPHREYS, DAVID, US

[73] TAMKO BUILDING PRODUCTS LLC, US

[86] (2882641)

[87] (2882641)

[22] 2015-02-23

[30] US (61/944,458) 2014-02-25

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[11] **2,885,570**
[13] C

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 9/14 (2006.01) A61K 31/195 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING POST-TRAUMATIC STRESS DISORDER**

[54] **PROCEDES DE TRAITEMENT DU TROUBLE DE STRESS POST TRAUMATIQUE**

[72] HEATON, AMY L., US

[72] FRIEDLANDER, MITCHELL K., US

[72] GAY, DENNIS W., US

[73] QUALITY IP HOLDINGS, LLC, US

[85] 2015-03-19

[86] 2013-09-19 (PCT/US2013/060672)

[87] (WO2014/047323)

[30] US (13/623,097) 2012-09-19

[30] US (13/623,101) 2012-09-19

[11] **2,886,374**
[13] C

[51] **Int.Cl. G01R 31/28 (2006.01) G01R 31/327 (2006.01) H02H 3/02 (2006.01)**

[25] EN

[54] **PROCESSOR-BASED CIRCUIT INTERRUPTING DEVICES**

[54] **DISPOSITIFS D'INTERRUPTION DE CIRCUIT BASES SUR UN PROCESSEUR**

[72] OSTROVSKY, MICHAEL, US

[73] LEVITON MANUFACTURING CO., INC., US

[85] 2015-03-26

[86] 2013-09-24 (PCT/US2013/061428)

[87] (WO2014/055292)

[30] US (13/632,524) 2012-10-01

[11] **2,886,470**
[13] C

[51] **Int.Cl. G01N 33/579 (2006.01) B01L 3/00 (2006.01)**

[25] EN

[54] **SENSITIVE AND RAPID METHOD FOR DETECTION OF LOW LEVELS OF LAL-REACTIVE SUBSTANCES**

[54] **PROCEDE SENSIBLE ET RAPIDE POUR LA DETECTION DE FAIBLES TAUX DE SUBSTANCES REACTIVES VIS-A-VIS DE LA LYSINOALANINE (LAL)**

[72] MELANSON, PAUL CHARLES, US

[72] SUNDARESAN, VIDYASANKAR, US

[72] GODEC, RICHARD DOUGLAS, US

[72] DENG, SHOUQUAN, CN

[73] BL TECHNOLOGIES, INC., US

[85] 2015-03-26

[86] 2013-10-07 (PCT/US2013/063645)

[87] (WO2014/058758)

[30] US (61/710,908) 2012-10-08

[30] US (61/710,898) 2012-10-08

[30] US (61/710,990) 2012-10-08

[30] US (61/710,903) 2012-10-08

[11] **2,887,505**
[13] C

[51] **Int.Cl. A61K 8/18 (2006.01) A61K 8/21 (2006.01) A61K 8/365 (2006.01) A61K 8/55 (2006.01) A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 9/107 (2006.01) A61K 9/68 (2006.01) A61K 33/06 (2006.01) A61K 33/16 (2006.01) A61K 33/42 (2006.01) A61K 36/28 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **REMINERALIZING AND DESENSITIZING COMPOSITIONS, TREATMENTS AND METHODS OF MANUFACTURE**

[54] **COMPOSITIONS DE REMINERALISATION ET DE DESENSIBILISATION, TRAITEMENTS ET PROCEDES DE FABRICATION**

[72] MCHALE, WILLIAM A., US

[72] BROWN, DALE G., US

[73] PREMIER DENTAL PRODUCTS COMPANY, US

[85] 2015-04-07

[86] 2013-10-11 (PCT/US2013/064504)

[87] (WO2014/059249)

[30] US (13/651,044) 2012-10-12

[11] **2,887,938**
[13] C

[51] **Int.Cl. F41H 5/013 (2006.01) F16B 1/00 (2006.01) F16B 19/00 (2006.01) F41H 5/02 (2006.01)**

[25] EN

[54] **ARMOUR COUPLER**

[54] **RACCORD POUR BLINDAGE**

[72] SHOSHAN, AMIR BEN, IL

[72] LAOR, AMIR, IL

[72] YAKOBI, EITAN, IL

[73] PLASAN SASA LTD., IL

[86] (2887938)

[87] (2887938)

[22] 2015-04-13

[30] IL (232110) 2014-04-13

[11] **2,888,012**
[13] C

[51] **Int.Cl. A23L 7/183 (2016.01) A23L 5/10 (2016.01) A23L 7/174 (2016.01) A47J 36/36 (2006.01) A47J 43/00 (2006.01)**

[25] EN

[54] **APPARATUS AND RELATED METHODS FOR PREPARING POPCORN**

[54] **APPAREIL ET METHODES ASSOCIEES DESTINES A LA PREPARATION DE MAIS SOUFFLE**

[72] ROONEY, SETH, US

[72] BERGE, MICHAEL R., US

[73] NATIONAL PRESTO INDUSTRIES, INC., US

[86] (2888012)

[87] (2888012)

[22] 2015-04-14

[30] US (14/262299) 2014-04-25

[11] **2,889,237**
[13] C

[51] **Int.Cl. B62H 1/02 (2006.01)**

[25] EN

[54] **KICKSTAND ASSEMBLY HAVING GEAR ASSEMBLY**

[54] **MECANISME DE BEQUILLE DOTE D'UN DISPOSITIF A ENGRENAGE**

[72] LARONDE, TIMOTHY, CA

[73] LARONDE, TIMOTHY, CA

[86] (2889237)

[87] (2889237)

[22] 2015-04-27

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[11] **2,890,143**
[13] C

[51] **Int.Cl. G06F 11/34 (2006.01)**
[25] EN
[54] **DYNAMIC COMPONENT PERFORMANCE MONITORING**
[54] **CONTROLE DE PERFORMANCES DE COMPOSANTE DYNAMIQUE**
[72] BUXBAUM, MARK, US
[72] MULLIGAN, MICHAEL G., US
[72] WAKELING, TIM, US
[72] ATTERBURY, MATTHEW DARCY, US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2015-04-29
[86] 2013-11-15 (PCT/US2013/070386)
[87] (WO2014/078711)
[30] US (13/678,928) 2012-11-16

[11] **2,890,488**
[13] C

[51] **Int.Cl. F24F 7/02 (2006.01) B01D 35/02 (2006.01) E04D 13/17 (2006.01)**
[25] EN
[54] **RIDGE VENT**
[54] **AERATEUR DE FAITAGE**
[72] GASSMAN, PAUL EDWARD, US
[72] SMITH, JEFFREY WAYNE, US
[72] WAGNER, JAY D., US
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[86] (2890488)
[87] (2890488)
[22] 2015-05-01
[30] US (61/987,211) 2014-05-01

[11] **2,891,050**
[13] C

[51] **Int.Cl. F04C 2/107 (2006.01)**
[25] EN
[54] **ECCENTRIC SCREW PUMP**
[54] **POMPE A VIS EXCENTRIQUE**
[72] KRAMPE, PAUL, DE
[73] HUGO VOGELSANG MASCHINENBAU GMBH, DE
[86] (2891050)
[87] (2891050)
[22] 2015-05-11
[30] EP (14167930.8) 2014-05-12

[11] **2,891,493**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **BISPECIFIC T CELL ACTIVATING ANTIGEN BINDING MOLECULES**
[54] **MOLECULES DE LIAISON A L'ANTIGENE BISPECIFIQUES ACTIVANT DES LYMPHOCYTES T**
[72] BACAC, MARINA, CH
[72] HOFER, THOMAS, CH
[72] HOSSE, RALF, CH
[72] JAEGER, CHRISTIANE, CH
[72] KLEIN, CHRISTIAN, CH
[72] MOESSNER, EKKEHARD, CH
[72] UMANA, PABLO, CH
[72] WEINZIERL, TINA, CH
[73] ROCHE GLYCART AG, CH
[85] 2015-05-14
[86] 2014-02-24 (PCT/EP2014/053490)
[87] (WO2014/131712)
[30] EP (13156686.1) 2013-02-26

[11] **2,891,880**
[13] C

[51] **Int.Cl. C07D 327/04 (2006.01) C07B 59/00 (2006.01) C07C 303/12 (2006.01) C07C 309/24 (2006.01) C07D 207/404 (2006.01) C07D 209/60 (2006.01) C07K 7/00 (2006.01)**
[25] EN
[54] **NEW NUCLEOPHILE-REACTIVE SULFONATED COMPOUNDS FOR THE (RADIO)LABELLING OF (BIO)MOLECULES; PRECURSORS AND CONJUGATES THEREOF**
[54] **NOUVEAUX COMPOSES SULFONES REACTIFS AVEC DES NUCLEOPHILES POUR LE (RADIO)MARQUAGE DE (BIO)MOLECULES ; PRECURSEURS ET CONJUGUES CORRESPONDANTS**
[72] PRIEM, THOMAS, FR
[72] BOUTEILLER, CEDRIC, FR
[72] CAMPORESE, DAVIDE, FR
[72] ROMIEU, ANTHONY, FR
[72] RENARD, PIERRE-YVES, FR
[73] ADVANCED ACCELERATOR APPLICATIONS, FR
[85] 2015-05-15
[86] 2013-11-22 (PCT/EP2013/074501)
[87] (WO2014/079979)
[30] EP (12194287.4) 2012-11-26

[11] **2,892,863**
[13] C

[51] **Int.Cl. A61K 47/66 (2017.01) C08G 67/00 (2006.01)**
[25] EN
[54] **POLYMERIC SCAFFOLD BASED ON PHF FOR TARGETED DRUG DELIVERY**
[54] **ECHAFAUDAGE POLYMERE FONDE SUR DES FILAMENTS HELICOIDIAUX APPARIES (PHF) POUR L'ADMINISTRATION CIBLEE DE MEDICAMENTS**
[72] YURKOVETSKIY, ALEKSANDR V., US
[72] YIN, MAO, US
[72] LOWINGER, TIMOTHY B., US
[72] THOMAS, JOSHUA D., US
[72] HAMMOND, CHARLES E., US
[72] STEVENSON, CHERI A., US
[72] BODYAK, NATALYA D., US
[72] CONLON, PATRICK R., US
[72] GUMEROV, DMITRY R., US
[73] MERSANA THERAPEUTICS, INC., US
[85] 2015-05-28
[86] 2013-12-10 (PCT/US2013/074205)
[87] (WO2014/093394)
[30] US (13/710,355) 2012-12-10

[11] **2,893,120**
[13] C

[51] **Int.Cl. C12N 15/62 (2006.01)**
[25] EN
[54] **MODIFIED COILED COIL TYPE PROTEINS HAVING IMPROVED PROPERTIES**
[54] **PROTEINES MODIFIEES A SUPERHELICE ET A PROPRIETES AMELIOREES**
[72] DEL CAMPO ASCARATEIL, JUDITH, FR
[72] TURKI HANI, IMENE, FR
[72] HILL, FERGAL, FR
[73] OSIVAX SAS, FR
[85] 2015-05-29
[86] 2013-12-11 (PCT/EP2013/076289)
[87] (WO2014/090905)
[30] EP (12306560.9) 2012-12-11
[30] US (61/802,836) 2013-03-18

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[11] **2,893,354**
[13] C

[51] **Int.Cl. H01P 1/18 (2006.01) H01P 1/06 (2006.01) H01P 3/16 (2006.01)**

[25] EN
[54] **PHASE SHIFTER**
[54] **DISPOSITIF DE DECALAGE DE PHASE**

[72] ABDELLATIF, AHMED SHEHATA, CA
[72] TAEB, AIDIN, CA
[72] RANJKESH, NAZY, CA
[72] GIGOYAN, SUREN, CA
[72] ABDELAZIZ, AHMED KAMAL SAID, CA
[72] SAFAVI-NAEINI, SAFIEDDIN, CA
[73] C-COM SATELLITE SYSTEMS INC., CA
[86] (2893354)
[87] (2893354)
[22] 2015-05-29
[30] CA (2,852,858) 2014-05-30

[11] **2,896,234**
[13] C

[51] **Int.Cl. F16L 25/14 (2006.01) F16L 21/03 (2006.01) F16L 21/08 (2006.01) F16L 33/02 (2006.01)**

[25] EN
[54] **ADAPTER FOR A FLUE GAS OUTLET**
[54] **ADAPTATEUR POUR SORTIE DE GAZ DE COMBUSTION**

[72] PESTOOR, IETSE JAN, NL
[72] WOLFFRAM, JOS, NL
[73] M & G GROUP B.V., NL
[86] (2896234)
[87] (2896234)
[22] 2015-07-06
[30] NL (2013138) 2014-07-07

[11] **2,896,609**
[13] C

[51] **Int.Cl. D21H 17/00 (2006.01) D21C 5/00 (2006.01) D21H 27/10 (2006.01)**

[25] EN
[54] **USE OF GLYCOSIDE HYDROLASE FAMILY 61 FOR IMPROVING DRAINAGE OF PAPER PULP**
[54] **UTILISATION D'HYDROLASE DE GLYCOSIDE DE FAMILLE 61 POUR L'AMELIORATION DU DRAINAGE DE LA PULPE DE PAPIER**

[72] SCHROEDER, BRIT, DK
[72] SOONG, CHEE-LEONG, US
[72] DELOZIER, GREGORY CLARK, US
[72] LUND, HENRIK, DK
[73] NOVOZYMES A/S, DK
[85] 2015-06-05
[86] 2013-12-06 (PCT/EP2013/075803)
[87] (WO2014/086976)
[30] EP (12196057.9) 2012-12-07

[11] **2,897,129**
[13] C

[51] **Int.Cl. G06F 16/182 (2019.01) G06F 16/11 (2019.01) G06F 16/13 (2019.01)**

[25] EN
[54] **DATA PROCESSING METHOD AND DEVICE IN DISTRIBUTED FILE STORAGE SYSTEM**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT DE DONNEES DANS UN SYSTEME DE STOCKAGE DE FICHIERS REPARTI**

[72] GUO, HONGXING, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2015-07-03
[86] 2013-12-31 (PCT/CN2013/091143)
[87] (WO2015/100627)

[11] **2,900,192**
[13] C

[51] **Int.Cl. C01B 3/02 (2006.01) C01B 3/32 (2006.01) C01B 3/34 (2006.01) C10L 3/00 (2006.01)**

[25] EN
[54] **METHODS FOR FUEL CONVERSION INTO SYNGAS WITH COMPOSITE METAL OXIDES**
[54] **METHODES DE CONVERSION DE CARBURANT EN GAZ DE SYNTHESE COMPORTANT DES OXYDES METALLIQUES COMPOSITES**

[72] FAN, LIANG-SHIH, US
[72] LUO, SIWEI, US
[72] ZENG, LIANG, US
[73] OHIO STATE INNOVATION FOUNDATION, US
[85] 2015-07-31
[86] 2014-02-05 (PCT/US2014/014877)
[87] (WO2014/124011)
[30] US (61/761,016) 2013-02-05
[30] US (61/779,243) 2013-03-13

[11] **2,900,855**
[13] C

[51] **Int.Cl. C07D 487/08 (2006.01) A61K 31/506 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01)**

[25] EN
[54] **AMINOPYRIMIDINYL COMPOUNDS**
[54] **COMPOSES D'AMIOPURIMIDINYL**

[72] FENSOME, ANDREW, US
[72] GOPALSAMY, ARIAMALA, US
[72] GERSTENBERGER, BRIAN S., US
[72] EFREMOV, IVAN VIKTOROVICH, US
[72] WAN, ZHAO-KUI, US
[72] PIERCE, BETSY, US
[72] TELLIEZ, JEAN-BAPTISTE, US
[72] TRUJILLO, JOHN I., US
[72] ZHANG, LIYING, US
[72] XING, LI, US
[72] SAIAH, EDDINE, US
[73] PFIZER INC., US
[86] (2900855)
[87] (2900855)
[22] 2015-08-18
[30] US (62/039,969) 2014-08-21

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[11] **2,902,024**
[13] C

[51] **Int.Cl. G06F 3/14 (2006.01) G06F 3/048 (2013.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PROVIDING A PAN AND ZOOM DISPLAY FOR A REPRESENTATION OF A PROCESS SYSTEM**
[54] **APPAREIL ET PROCÉDE DE FOURNITURE D’AFFICHAGE PANORAMIQUE ET ZOOM POUR LA REPRÉSENTATION D’UN SYSTÈME DE TRAITEMENT**
[72] CUPITT, DAVID JAMES, US
[72] SPEAR, JAMES, US
[72] LAYCOCK, GRAEME, US
[72] DUNCANSON, IAN, US
[73] HONEYWELL INTERNATIONAL INC., US
[85] 2015-08-20
[86] 2014-02-10 (PCT/US2014/015502)
[87] (WO2014/133735)
[30] US (13/779,154) 2013-02-27

[11] **2,902,249**
[13] C

[51] **Int.Cl. A62B 33/00 (2006.01) A63B 29/02 (2006.01)**
[25] EN
[54] **PORTABLE DEVICE FOR RAPIDLY INFLATING A BAG**
[54] **DISPOSITIF PORTATIF PERMETTANT DE GONFLER RAPIDEMENT UN SAC A DOS ABS**
[72] SCHAER, MARC-ANTOINE, CH
[72] GRAHAM, ROBERT, CH
[72] RAEBER, LAURENT, CH
[73] RAS TECHNOLOGY SARL, CH
[85] 2015-08-24
[86] 2014-01-30 (PCT/EP2014/051787)
[87] (WO2014/131565)
[30] CH (00525/13) 2013-02-28
[30] CH (00612/13) 2013-03-15
[30] EP (13174811.3) 2013-07-02

[11] **2,902,355**
[13] C

[51] **Int.Cl. C10G 67/04 (2006.01)**
[25] EN
[54] **INCREASED PRODUCTION OF FUELS BY INTEGRATION OF VACUUM DISTILLATION WITH SOLVENT DEASPHALTING**
[54] **PRODUCTION AUGMENTÉE DE CARBURANTS PAR INTEGRATION D’UNE DISTILLATION SOUS VIDE AVEC DESASPHALTAGE AU SOLVANT**
[72] GILLIS, DANIEL B., US
[72] WOODSON, JOSEPH, US
[73] FOSTER WHEELER USA CORPORATION, US
[85] 2015-08-24
[86] 2014-02-25 (PCT/US2014/018415)
[87] (WO2014/131040)
[30] US (61/769,062) 2013-02-25
[30] US (61/780,678) 2013-03-13

[11] **2,902,936**
[13] C

[51] **Int.Cl. E01C 13/08 (2006.01) E02D 17/20 (2006.01)**
[25] EN
[54] **METHODS FOR JOINING STRIPS OF SYNTHETIC TURF AND FOR COVERING A SITE WITH SYNTHETIC TURF**
[54] **PROCEDES DE JONCTION DE BANDES DE GAZON SYNTHETIQUE ET METHODES POUR RECOUVRIR UN SITE DE GAZON SYNTHETIQUE**
[72] LEWIS, DELANEY, US
[72] URRUTIA, JOSE, US
[72] AYERS, MICHAEL, US
[73] WATERSHED GEOSYNTHETICS LLC, US
[85] 2015-08-27
[86] 2014-02-27 (PCT/US2014/019117)
[87] (WO2014/134347)
[30] US (61/769,821) 2013-02-27

[11] **2,903,180**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4427 (2006.01) A61P 9/00 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **3,4-DIHYDRO-2H-ISOQUINOLINE-1-ONE AND 2,3-DIHYDRO-ISOINDOL-1-ONE COMPOUNDS**
[54] **COMPOSES 3,4-DIHYDRO-2H-ISOQUINOLINE-1-ONE ET 2,3-DIHYDRO-ISOINDOL-1-ONE**
[72] AEBI, JOHANNES, CH
[72] AMREIN, KURT, CH
[72] CHEN, WENMING, CN
[72] HORNSPERGER, BENOIT, FR
[72] KUHN, BERND, CH
[72] LIU, YONGFU, CN
[72] MAERKI, HANS P., CH
[72] MARTIN, RAINER E., CH
[72] MAYWEG, ALEXANDER V., CH
[72] TAN, XUEFEI, CN
[72] WANG, LISHA, CH
[72] ZHOU, MINGWEI, CN
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2015-08-31
[86] 2014-05-26 (PCT/EP2014/060790)
[87] (WO2014/191338)
[30] CN (PCT/CN2013/076281) 2013-05-27

[11] **2,903,226**
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01) C12N 15/113 (2010.01) C07K 14/415 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **CONSTITUTIVE SOYBEAN PROMOTERS**
[54] **PROMOTEURS DE SOJA CONSTITUTIFS**
[72] ZHANG, SHIRONG, US
[73] BASF AGRICULTURAL SOLUTIONS SEED US LLC, US
[85] 2015-08-31
[86] 2014-03-11 (PCT/US2014/023291)
[87] (WO2014/150449)
[30] US (61/790,907) 2013-03-15

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[11] **2,904,238**
[13] C

[51] **Int.Cl. A01G 23/083 (2006.01)**
[25] EN
[54] **A TIMBER-WORKING DEVICE AND METHOD OF OPERATION**
[54] **DISPOSITIF DE TRAVAIL DU BOIS D'□UVRE ET PROCEDE DE FONCTIONNEMENT**
[72] SWINYARD, DOUGLAS CRAIG, NZ
[73] WARATAH NZ LIMITED, NZ
[85] 2015-09-04
[86] 2014-12-02 (PCT/NZ2014/000238)
[87] (WO2015/084182)
[30] NZ (618425) 2013-12-02

[11] **2,904,661**
[13] C

[51] **Int.Cl. A61M 5/28 (2006.01) A61M 5/20 (2006.01) A61M 5/24 (2006.01) A61M 5/32 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **DRUG CASSETTE, AUTOINJECTOR, AND AUTOINJECTOR SYSTEM**
[54] **BOITE A MEDICAMENT, AUTOINJECTEUR ET SYSTEME D'AUTOINJECTEUR**
[72] MOUNCE, R. PAUL, US
[72] JUDD, CLINTON, US
[72] KRISHNA, SUHAS, US
[72] JOHNSTON, NEAL D., US
[72] JOHNSTON, GORDON, US
[72] SARDO, GIORGIO, IT
[72] GANZITTI, GABRIELE, IT
[72] YEH, HONG JUN, US
[73] AMGEN INC., US
[85] 2015-09-08
[86] 2014-03-14 (PCT/US2014/027950)
[87] (WO2014/143815)
[30] US (61/800,000) 2013-03-15

[11] **2,904,816**
[13] C

[51] **Int.Cl. A61L 15/00 (2006.01) A61F 13/15 (2006.01) A61L 15/28 (2006.01) B01J 20/24 (2006.01) B01J 20/28 (2006.01) D21C 9/00 (2006.01) D21C 9/10 (2006.01) D21C 9/16 (2006.01) D21H 11/04 (2006.01) D21H 11/16 (2006.01)**
[25] EN
[54] **SURFACE TREATED MODIFIED CELLULOSE FROM CHEMICAL KRAFT FIBER AND METHODS OF MAKING AND USING THE SAME**
[54] **CELLULOSE MODIFIEE TRAITEE EN SURFACE A BASE DE FIBRES KRAFT CHIMIQUES ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLE-CI**
[72] NONNI, ARTHUR J., US
[72] COURCHENE, CHARLES E., US
[72] TIPPEY, DAROLD, US
[73] GP CELLULOSE GMBH, CH
[85] 2015-09-09
[86] 2014-02-25 (PCT/IB2014/000759)
[87] (WO2014/140801)
[30] US (13/840,857) 2013-03-15

[11] **2,905,257**
[13] C

[51] **Int.Cl. C02F 1/32 (2006.01) A61L 9/20 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR INACTIVATION OF INFECTIOUS PANCREATIC NECROSIS VIRUS (IPNV) USING OPTIMIZED ULTRAVIOLET (UV) LIGHT**
[54] **SYSTEME ET PROCEDE D'INACTIVATION DU VIRUS DE LA NECROSE PANCREATIQUE INFECTIEUSE (VNPI) A L'AIDE DE LUMIERE ULTRAVIOLETTE (UV) OPTIMISEE**
[72] LICI, TOVIT, IL
[72] KERTSER, MICHAEL, IL
[72] ROZENBERG, YTZHAK, IL
[73] ATLANTIUM TECHNOLOGIES LTD., IL
[85] 2015-09-10
[86] 2014-03-13 (PCT/IL2014/050269)
[87] (WO2014/141269)
[30] US (61/788,477) 2013-03-15

[11] **2,906,096**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/395 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C07K 14/00 (2006.01) C07K 14/81 (2006.01) C07K 16/40 (2006.01) C12N 15/13 (2006.01) C12N 15/15 (2006.01) C12N 15/62 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **METHODS OF GENERATING BIOACTIVE PEPTIDE-BEARING ANTIBODIES AND COMPOSITIONS COMPRISING THE SAME**
[54] **METHODES DE GENERATION D'ANTICORPS PORTEURS DE PEPTIDE BIOACTIF ET COMPOSITIONS LES COMPRENANT**
[72] CUMMINGS, W. JASON, US
[72] GRAY, PATRICK, US
[72] TJOELKER, LARRY W., US
[72] YABUKI, MUNEHISA, US
[73] OMEROS CORPORATION, US
[85] 2015-09-11
[86] 2014-03-14 (PCT/US2014/028999)
[87] (WO2014/144542)
[30] US (61/962,289) 2013-03-15
[30] US (61/823,964) 2013-05-16

[11] **2,906,672**
[13] C

[51] **Int.Cl. A61B 34/30 (2016.01) B25J 9/06 (2006.01) B25J 19/02 (2006.01)**
[25] EN
[54] **METHODS, SYSTEMS, AND DEVICES RELATING TO FORCE CONTROL SURGICAL SYSTEMS**
[54] **PROCEDES, SYSTEMES ET DISPOSITIFS ASSOCIES A DES SYSTEMES CHIRURGICAUX DE COMMANDE DE FORCE**
[72] FARRITOR, SHANE, US
[72] FREDERICK, THOMAS, US
[72] LACKAS, KEARNEY, US
[72] BARTELS, JOE, US
[72] GREENBURG, JACOB, US
[73] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US
[85] 2015-09-14
[86] 2014-03-14 (PCT/US2014/027320)
[87] (WO2014/152418)
[30] US (61/781,594) 2013-03-14

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[11] **2,907,006**
[13] C

[51] **Int.Cl. A61B 5/0507 (2021.01) A61B 90/00 (2016.01) A61B 90/98 (2016.01) A61B 5/06 (2006.01)**

[25] EN

[54] **MICROWAVE ANTENNA APPARATUS, SYSTEMS, AND METHODS FOR LOCALIZING MARKERS OR TISSUE STRUCTURES WITHIN A BODY**

[54] **APPAREIL A ANTENNE HYPERFREQUENCE, SYSTEMES ET PROCEDES DE LOCALISATION DE MARQUEURS OU DE STRUCTURES DE TISSU DANS UN ORGANISME**

[72] FULLERTON, LARRY W., US

[72] GREENE, JOHN E., US

[72] NGUYEN, TOMMY G., US

[72] CHI SING, EDUARDO, US

[73] CIANNA MEDICAL, INC., US

[85] 2015-09-15

[86] 2014-01-27 (PCT/US2014/013239)

[87] (WO2014/149183)

[30] US (61/800,046) 2013-03-15

[11] **2,907,307**
[13] C

[51] **Int.Cl. B65D 33/38 (2006.01) A23L 5/00 (2016.01)**

[25] EN

[54] **FOOD PACKAGING HAVING AN INTEGRATED SPOUT**

[54] **EMBALLAGE ALIMENTAIRE COMPORTANT UN BEC INTEGRE**

[72] GILLESPIE, SCOTT F., US

[73] GENERAL MILLS, INC., US

[86] (2907307)

[87] (2907307)

[22] 2015-10-06

[30] US (14/531,452) 2014-11-03

[11] **2,907,702**
[13] C

[51] **Int.Cl. F04C 15/00 (2006.01) F04C 2/08 (2006.01) F04C 2/10 (2006.01) F04C 13/00 (2006.01)**

[25] EN

[54] **SLURRY PUMP**

[54] **POMPE A BOUE**

[72] KLASSEN, JAMES, CA

[73] KLASSEN, JAMES, CA

[85] 2015-09-21

[86] 2013-03-21 (PCT/CA2013/050235)

[87] (WO2014/146190)

[11] **2,908,076**
[13] C

[51] **Int.Cl. H01H 31/02 (2006.01) H01B 5/00 (2006.01) H01B 7/00 (2006.01) H02G 5/00 (2006.01)**

[25] EN

[54] **A CONDUCTOR FOR ELECTRICAL EQUIPMENT**

[54] **CONDUCTEUR POUR MATERIEL ELECTRIQUE**

[72] DEMISSY, DANIEL, CA

[72] BABIN, PASCAL, CA

[72] LEGER, MARTIN, CA

[72] ROLLIER, CLEMENT, CA

[72] KECHROUD, RIYAD, CA

[73] GENERAL ELECTRIC TECHNOLOGY GMBH, CH

[85] 2015-09-25

[86] 2014-03-27 (PCT/EP2014/056124)

[87] (WO2014/154786)

[30] FR (13 52841) 2013-03-28

[11] **2,908,144**
[13] C

[51] **Int.Cl. E21B 19/06 (2006.01)**

[25] EN

[54] **TUBULAR SUPPORT AND SERVICING SYSTEMS**

[54] **SUPPORT TUBULAIRE ET SYSTEMES D'ENTRETIEN**

[72] BELIK, JAROSLAV, US

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

[85] 2015-09-25

[86] 2014-04-02 (PCT/US2014/032735)

[87] (WO2014/165630)

[30] US (61/807,676) 2013-04-02

[30] US (61/859,767) 2013-07-29

[11] **2,908,852**
[13] C

[51] **Int.Cl. G01N 33/34 (2006.01)**

[25] EN

[54] **ANALYTICAL METHOD FOR DETERMINING THE CONCENTRATION OF OXIDIZED NANOFIBRILLAR CELLULOSE IN A SAMPLE**

[54] **PROCEDE ANALYTIQUE POUR DETERMINER LA CONCENTRATION EN CELLULOSE NANOFIBRILLAIRE OXYDEE DANS UN ECHANTILLON**

[72] LAUKKANEN, ANTTI, FI

[72] PERE, JAAKKO, FI

[72] MIKKELSON, ATTE, FI

[73] UPM-KYMMENE CORPORATION, FI

[85] 2015-10-06

[86] 2014-04-11 (PCT/FI2014/050266)

[87] (WO2014/167189)

[30] FI (20135361) 2013-04-12

[11] **2,910,410**
[13] C

[51] **Int.Cl. A61M 25/10 (2013.01) A61M 31/00 (2006.01)**

[25] EN

[54] **PEELABLE PROTECTIVE SHEATH**

[54] **GAINE PROTECTRICE POUVANT ETRE PELEE**

[72] POKER, RACHEL, US

[72] ASMUS, BRUCE, US

[73] C.R. BARD, INC., US

[85] 2015-10-26

[86] 2014-05-02 (PCT/US2014/036693)

[87] (WO2014/179767)

[30] US (61/819,433) 2013-05-03

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[11] **2,911,330**
[13] C

[51] **Int.Cl. A61B 3/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTRA-OPERATIVE EYE BIOMETRY OR REFRACTIVE MEASUREMENT**
[54] **SYSTEMES ET PROCEDES POUR MESURE DE BIOMETRIE OU REFRACTIVE DE L'OEIL PEROPERATOIRE**
[72] ARTSYUKHOVICH, ALEXANDER N., US
[72] ASLAN, ARAS, US
[72] YU, LINGFENG, US
[73] ALCON INC., US
[85] 2015-10-30
[86] 2014-05-27 (PCT/US2014/039579)
[87] (WO2015/026414)
[30] US (13/972,975) 2013-08-22

[11] **2,911,335**
[13] C

[51] **Int.Cl. B65D 23/08 (2006.01) B65D 1/02 (2006.01) B65D 81/36 (2006.01)**
[25] EN
[54] **A BEVERAGE BOTTLE, A METHOD OF MANUFACTURING A BEVERAGE BOTTLE AND A METHOD OF DESIGNING AN ILLUSTRATION**
[54] **BOUTEILLE DESTINEE A CONTENIR UNE BOISSON, PROCEDE DE FABRICATION D'UNE BOUTEILLE DESTINEE A CONTENIR UNE BOISSON ET PROCEDE DE CONCEPTION D'UNE ILLUSTRATION**
[72] SERRAS, INES DIAS ROSA NUNES, ES
[72] ARCHENY, ARMEL, FR
[72] PEREZ, GILLES, FR
[73] COMPAGNIE GERVAIS DANONE, FR
[73] GRAHAM PACKAGING COMPANY, L.P., US
[85] 2015-11-03
[86] 2014-05-06 (PCT/EP2014/059169)
[87] (WO2014/180812)
[30] US (61/819 730) 2013-05-06

[11] **2,912,627**
[13] C

[51] **Int.Cl. A61K 31/4985 (2006.01) A61K 9/20 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS OF 7-(6-(2-HYDROXYPROPAN-2-YL)PYRIDIN-3-YL)-1-((TRANS)-4-METHOXYCYCLOHEXYL)-3,4-DIHYDROPYRAZINO[2,3-B]PYRAZIN-2(1H)-ONE, A SOLID FORM THEREOF AND METHODS OF THEIR USE**
[54] **COMPOSITIONS PHARMACEUTIQUES DE 7-(6-(2-HYDROXYPROPAN-2-YL)PYRIDIN-3-YL)-L-((TRANS)-4-METHOXYCYCLOHEXYL)-3,4-DIHYDROPYRAZINO[2,3-B]PYRAZIN-2(LH)-ONE, FORME SOLIDE DE CELLE-CI ET P ROCEDES POUR LES UTILISER**
[72] BEAUCHAMPS, MARIE GEORGES, US
[72] FERRETTI, ANTONIO CHRISTIAN, US
[72] GAMBOA, JUAN ANTONIO, US
[72] KLOPFER, KEVIN, US
[72] KONNECKE, WILLIAM EDWARD, US
[72] KREILEIN, MATTHEW MICHAEL, US
[72] MENON, ANIL, US
[72] MIKLOS, AMANDA NICOLE, US
[72] TRAVERSE, JOHN FITZGERALD, US
[73] SIGNAL PHARMACEUTICALS, LLC, US
[85] 2015-11-16
[86] 2014-05-28 (PCT/US2014/039712)
[87] (WO2014/193912)
[30] US (61/828,506) 2013-05-29

[11] **2,914,242**
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **MEANS AND METHODS FOR YIELD PERFORMANCE IN PLANTS**
[54] **MOYENS ET PROCEDES POUR LA PERFORMANCE DE RENDEMENT DANS DES PLANTES**
[72] INZE, DIRK GUSTAAF, BE
[72] CLAEYS, HANNES, BE
[72] NELISSEN, HILDE, BE
[72] SUN, XIAOHUAN, BE
[73] VIB VZW, BE
[73] UNIVERSITEIT GENT, BE
[85] 2015-12-02
[86] 2014-06-03 (PCT/EP2014/061438)
[87] (WO2014/195287)
[30] GB (1309866.0) 2013-06-03

[11] **2,914,365**
[13] C

[51] **Int.Cl. A61K 31/185 (2006.01) A61K 31/54 (2006.01) A61P 25/00 (2006.01) A61P 25/18 (2006.01)**
[25] EN
[54] **ACAMPROSATE FORMULATIONS, METHODS OF USING THE SAME, AND COMBINATIONS COMPRISING THE SAME**
[54] **FORMULATIONS D'ACAMPROSATE, PROCEDES D'UTILISATION DE CELLES-CI, ET COMBINAISONS COMPRENANT CELLES-CI**
[72] FOGEL, BARRY S., US
[72] KERNS, WILLIAM D., US
[72] FONG, KEI-LAI, US
[72] CHOW, SAN-LAUNG, US
[72] WONG, DAVID, US
[72] LIN, EDWARD, US
[73] SYNCHRONEURON, INC., US
[85] 2015-12-02
[86] 2014-06-05 (PCT/US2014/041186)
[87] (WO2014/197744)
[30] US (61/831,587) 2013-06-05

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[11] **2,915,727**
[13] C

[51] **Int.Cl. B65D 53/04 (2006.01) B65D 41/04 (2006.01) B65D 51/24 (2006.01) C12H 1/056 (2006.01)**

[25] EN

[54] **SEALING DISC FOR A CLOSURE CAP FOR CONTAINERS, ESPECIALLY BOTTLES**

[54] **DISQUE D'ETANCHEITE POUR UN BOUCHON DE CONTENANTS, NOTAMMENT DE BOUTEILLES**

[72] KROGER, RAINER, DE
[72] ROHRKA, HEINZ-WERNER, DE
[72] ROTHWEILER, PETER, DE
[73] ALFELDER KUNSTSTOFFWERKE HERM. MEYER GMBH, DE

[85] 2015-12-16
[86] 2014-07-01 (PCT/EP2014/063965)
[87] (WO2015/000901)
[30] DE (10 2013 106 966.5) 2013-07-03

[11] **2,916,450**
[13] C

[51] **Int.Cl. B23K 35/04 (2006.01) B01J 19/08 (2006.01)**

[25] EN

[54] **ELECTRODE STRUCTURE FOR RESISTANCE WELDING**

[54] **STRUCTURE D'ELECTRODE DESTINEE AU SOUDAGE PAR RESISTANCE**

[72] IWAMOTO, YOSHIKI, JP
[72] TAMURA, GO, JP
[72] SAEKI, SHUHEI, JP
[73] DENGENSHA TOA CO., LTD., JP

[86] (2916450)
[87] (2916450)
[22] 2015-12-30
[30] JP (2015-129269) 2015-06-26

[11] **2,917,059**
[13] C

[51] **Int.Cl. B02C 23/00 (2006.01) B02C 17/00 (2006.01) B02C 17/18 (2006.01) B02C 23/04 (2006.01)**

[25] EN

[54] **STRESS DISTRIBUTION ELEMENT FOR A GRINDING MILL SHELL**

[54] **ELEMENT DE REPARTITION DE CONTRAINTES POUR COQUE DE BROYEUR**

[72] GREEN, NICHOLAS JOHN, AU
[72] BELKE, JEFFREY VICTOR, AU
[73] OUTOTEC (FINLAND) OY, FI

[85] 2015-12-30
[86] 2014-07-08 (PCT/AU2014/000700)
[87] (WO2015/003208)
[30] AU (2013206749) 2013-07-08

[11] **2,918,546**
[13] C

[51] **Int.Cl. B29C 33/00 (2006.01) B29C 43/36 (2006.01) B29C 70/46 (2006.01) B29C 70/48 (2006.01)**

[25] EN

[54] **MOULD ARRANGEMENT AND METHOD FOR COMPRESSION MOULDING FIBER REINFORCED PREFORMS**

[54] **AGENCEMENT DE MOULE ET PROCEDE POUR LE MOULAGE PAR COMPRESSION DE PREFORMES RENFORCEES PAR DES FIBRES**

[72] INGRAM, JOHN A., CA
[72] GRELLA, PHILIP, CA
[72] HAAG, DONALD F., US
[72] PLAUMAN, MATTHEW R., US
[72] PANASIEWICZ, JEREMY A., US
[72] HARDY, W. TYLER, US
[73] MAGNA INTERNATIONAL INC., CA

[85] 2016-01-15
[86] 2014-07-26 (PCT/US2014/048327)
[87] (WO2015/013692)
[30] US (61/858,784) 2013-07-26

[11] **2,918,990**
[13] C

[51] **Int.Cl. B01D 1/28 (2006.01) B01D 3/10 (2006.01) C02F 1/04 (2006.01)**

[25] FR

[54] **METHODS AND FACILITIES FOR THERMAL DISTILLATION WITH MECHANICAL VAPOUR COMPRESSION**

[54] **PROCEDES ET INSTALLATIONS DE DISTILLATION THERMIQUE A COMPRESSION MECANIQUE DE VAPEUR**

[72] FRANCOIS-MATHIEU, WINANDY, GB

[73] INDUSTRIAL ADVANCED SERVICE FZ-LLC, AE

[85] 2016-01-21
[86] 2014-07-29 (PCT/EP2014/066278)
[87] (WO2015/014840)
[30] EP (PCT/EP2013/065933) 2013-07-29

[11] **2,919,552**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/415 (2006.01) A61K 31/4192 (2006.01) C07D 231/12 (2006.01) C07D 231/54 (2006.01) C07D 233/60 (2006.01) C07D 233/61 (2006.01) C07D 233/66 (2006.01) C07D 249/06 (2006.01) C07D 249/08 (2006.01) C07D 403/10 (2006.01) C07D 413/10 (2006.01) C07D 413/14 (2006.01) C07D 417/10 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **1,3-DISUBSTITUTED CYCLOPENTANE DERIVATIVES**

[54] **DERIVES DE CYCLOPENTANE 1,3-DISUBSTITUTES**

[72] TSAKLAKIDIS, CHRISTOS, DE
[72] STAEHLE, WOLFGANG, DE
[72] LEUTHNER, BIRGITTA, DE
[72] FUCHSS, THOMAS, DE
[73] MERCK PATENT GMBH, DE

[85] 2016-01-27
[86] 2014-07-11 (PCT/EP2014/001912)
[87] (WO2015/014446)
[30] EP (13003769.0) 2013-07-29

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[11] **2,920,061**
[13] C

[51] **Int.Cl. A01N 65/08 (2009.01) A01N 37/44 (2006.01) A01N 51/00 (2006.01) A01P 17/00 (2006.01)**

[25] EN

[54] **BIOPESTICIDE COMPOSITIONS COMPRISING WATER SOLUBLE POLYOLS**

[54] **COMPOSITIONS DE BIOPESTICIDES COMPRENANT DES POLYOLS HYDROSOLUBLES**

[72] HETHERINGTON, MARK ANDREW, CA

[72] ROBINSON, JAMES, CA

[73] MUSTGROW BIOLOGICS CORP., CA

[85] 2016-02-01

[86] 2014-08-01 (PCT/CA2014/000601)

[87] (WO2015/013808)

[30] US (61/861,518) 2013-08-02

[11] **2,920,198**
[13] C

[51] **Int.Cl. B21D 5/12 (2006.01) B21D 11/06 (2006.01)**

[25] EN

[54] **ROLLED TUBULAR CENTRALIZER**

[54] **CENTREUR TUBULAIRE ROULE**

[72] BUYTAERT, JEAN, US

[72] PLUCHECK, CLAYTON, US

[72] KUBIAK, JEFFREY, US

[73] INNOVEX DOWNHOLE SOLUTIONS, INC., US

[85] 2016-02-01

[86] 2014-07-23 (PCT/US2014/047837)

[87] (WO2015/017212)

[30] US (13/957,016) 2013-08-01

[30] US (14/283,947) 2014-05-21

[11] **2,921,696**
[13] C

[51] **Int.Cl. A23L 3/00 (2006.01) A61L 2/14 (2006.01)**

[25] EN

[54] **FOOD SANITIZATION**

[54] **ASSAINISSEMENT DES ALIMENTS**

[72] CORRIGAN, PATRICK JOSEPH, US

[73] THE IAMS COMPANY, US

[85] 2016-02-17

[86] 2014-09-16 (PCT/US2014/055952)

[87] (WO2015/039137)

[30] US (61/878,304) 2013-09-16

[11] **2,921,917**
[13] C

[51] **Int.Cl. C09K 23/22 (2022.01) C09K 8/28 (2006.01) C09K 8/36 (2006.01)**

[25] EN

[54] **METHODS FOR PRODUCING EMULSIFIERS BY MIXING TALL OIL AND ONE OR MORE TRIAMIDE**

[54] **METHODES DE PRODUCTION D'EMULSIFIANTS EN MELANGEANT DU TALLOL ET UN OU PLUSIEURS TRIAMIDES**

[72] HURD, PHILLIP W., US

[72] HINES, JOHN B., US

[72] JOHNSON, ROGER SCOTT, US

[72] MPOFU, DAVID T., US

[72] RIFE, NATHAN P., US

[72] COTHRAN, ANNE M., US

[73] INGEVITY SOUTH CAROLINA, LLC, US

[85] 2016-02-19

[86] 2014-08-18 (PCT/US2014/051411)

[87] (WO2015/026689)

[30] US (61/867,328) 2013-08-19

[11] **2,921,998**
[13] C

[51] **Int.Cl. A61M 16/00 (2006.01) G06F 3/02 (2006.01)**

[25] EN

[54] **A BREATHING APPARATUS USER INTERFACE AND METHOD OF OPERATING SAME**

[54] **INTERFACE UTILISATEUR D'APPAREIL RESPIRATOIRE ET METHODE D'UTILISATION**

[72] SALMON, ANDREW PAUL MAXWELL, NZ

[72] LAMPRECHT, BERNHARD FLORIAN, NZ

[73] FISHER & PAYKEL HEALTHCARE LIMITED, NZ

[85] 2016-02-19

[86] 2014-08-19 (PCT/IB2014/063961)

[87] (WO2015/025264)

[30] US (61/867,257) 2013-08-19

[11] **2,922,624**
[13] C

[51] **Int.Cl. F25J 1/00 (2006.01) F25J 1/02 (2006.01) F25J 3/02 (2006.01)**

[25] EN

[54] **NATURAL GAS LIQUEFACTION SYSTEM AND METHOD OF PRODUCING A LIQUEFIED NATURAL GAS STREAM**

[54] **SYSTEME DE LIQUEFACTION DE GAZ NATUREL ET PROCEDE DE PRODUCTION D'UN FLUX DE GAZ NATUREL LIQUEFIE**

[72] BUIJS, CORNELIS, NL

[72] ROVERS, STEFAN ADRIANUS, NL

[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL

[85] 2016-02-26

[86] 2014-09-10 (PCT/EP2014/069288)

[87] (WO2015/036429)

[30] EP (13184363.3) 2013-09-13

[11] **2,922,997**
[13] C

[51] **Int.Cl. B29C 70/20 (2006.01) B29C 70/22 (2006.01) F41H 5/04 (2006.01)**

[25] EN

[54] **COUPLED FIBERS IN COMPOSITE ARTICLES**

[54] **FIBRES COUPLEES DANS DES ARTICLES COMPOSITES**

[72] KOZAR, MICHAEL P., US

[72] WILENSKI, MARK S., US

[72] STANLEY, DANIEL C., US

[73] THE BOEING COMPANY, US

[85] 2016-03-02

[86] 2014-08-18 (PCT/US2014/051424)

[87] (WO2015/088594)

[30] US (14/106,742) 2013-12-14

[11] **2,924,274**
[13] C

[51] **Int.Cl. A61B 18/20 (2006.01) A61B 1/00 (2006.01) A61B 1/303 (2006.01) A61B 1/32 (2006.01) A61B 17/42 (2006.01)**

[25] EN

[54] **OPTICAL SPECULUM**

[54] **SPECULUM OPTIQUE**

[72] GREENSTEIN, LIOR, IL

[72] DAVARA, GILAD A., IL

[72] GANON, GAD, IL

[72] AVIV, DAVID, IL

[73] ILLUMIGYN LTD., IL

[85] 2016-03-14

[86] 2014-09-18 (PCT/IB2014/064638)

[87] (WO2015/040570)

[30] US (61/879,263) 2013-09-18

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[11] **2,924,637**
[13] C

[51] **Int.Cl. C08G 12/00 (2006.01) B01J 31/04 (2006.01) B05D 3/02 (2006.01) B27N 3/00 (2006.01) C08G 69/08 (2006.01) C08J 9/30 (2006.01) C08K 5/55 (2006.01) C08L 61/00 (2006.01) C08L 61/20 (2006.01) C09J 161/00 (2006.01) C09J 161/06 (2006.01) C09J 161/18 (2006.01)**

[25] FR
[54] **AQUEOUS ADHESIVE COMPOSITION FOR ADHESIVE BONDING**
[54] **COMPOSITION ADHESIVE AQUEUSE POUR LE COLLAGE**

[72] DOISNEAU, DAVID, FR
[73] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[73] MICHELIN RECHERCHE ET TECHNIQUE S.A., CH

[85] 2016-03-16
[86] 2014-10-02 (PCT/EP2014/071120)
[87] (WO2015/049326)
[30] FR (1359554) 2013-10-02

[11] **2,924,868**
[13] C

[51] **Int.Cl. G06F 3/0485 (2022.01) G06F 3/04883 (2022.01)**

[25] EN
[54] **AUTOSCROLL REGIONS**
[54] **REGIONS A DEFILEMENT AUTOMATIQUE**

[72] HANUMARA, POORNIMA, US
[72] RAMPSON, BENJAMIN EDWARD, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US

[85] 2016-03-18
[86] 2014-10-01 (PCT/US2014/058504)
[87] (WO2015/050912)
[30] US (14/046,522) 2013-10-04

[11] **2,925,065**
[13] C

[51] **Int.Cl. B32B 17/10 (2006.01) B64C 1/14 (2006.01)**

[25] FR
[54] **THIN LAMINATED GLASS**
[54] **VERRE FEUILLETE MINCE**

[72] LESTRINGANT, CLAIRE, FR
[72] GY, RENE, FR
[72] KREMERS, STEPHAN, DE
[73] SAINT-GOBAIN GLASS FRANCE, FR

[85] 2016-03-22
[86] 2014-10-22 (PCT/FR2014/052684)
[87] (WO2015/059406)
[30] FR (1360325) 2013-10-23

[11] **2,925,367**
[13] C

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 17/00 (2006.01) E21B 23/00 (2006.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR SERVICING A WELL**
[54] **PROCEDE ET SYSTEME D'ENTRETIEN D'UN Puits**

[72] SABATIER, CLINT ROGER, CA
[73] 925599 ALBERTA LTD., CA

[86] (2925367)
[87] (2925367)
[22] 2016-03-30
[30] US (62/140,184) 2015-03-30

[11] **2,925,593**
[13] C

[51] **Int.Cl. E21B 19/22 (2006.01) E21B 17/20 (2006.01) E21B 44/04 (2006.01)**

[25] EN
[54] **COILED TUBING INJECTOR WITH LOAD SENSING TUBING GUIDE**
[54] **INJECTEUR DE TUBAGE HELICOIDAL A GUIDE DE TUBAGE A DETECTION DE CHARGE**

[72] STEFFENHAGEN, TIMOTHY S., US
[72] WHITE, WILLIAM B., US
[72] MCCULLOCH, DAVID W., US
[73] NATIONAL OILWELL VARCO, L.P., US

[85] 2016-03-24
[86] 2014-10-15 (PCT/US2014/060736)
[87] (WO2015/057864)
[30] US (14/054,661) 2013-10-15

[11] **2,925,907**
[13] C

[51] **Int.Cl. A61B 6/00 (2006.01) A61B 6/03 (2006.01)**

[25] EN
[54] **X-RAY BREAST TOMOSYNTHESIS ENHANCING SPATIAL RESOLUTION INCLUDING IN THE THICKNESS DIRECTION OF A FLATTENED BREAST**

[54] **TOMOSYNTHESE DU SEIN A RAYONS X AMELIORANT LA RESOLUTION SPATIALE Y COMPRIS DANS LE SENS DE L'EPAISSEUR DU SEIN APLATI**

[72] SMITH, ANDREW PAUL, US
[72] STEIN, JAY, US
[72] DEFREITAS, KENNETH, US
[72] SHAW, IAN, US
[73] HOLOGIC, INC., US

[85] 2016-03-29
[86] 2014-10-09 (PCT/US2014/059939)
[87] (WO2015/054518)
[30] US (61/888,825) 2013-10-09

[11] **2,926,734**
[13] C

[51] **Int.Cl. C07H 19/06 (2006.01)**

[25] EN
[54] **SYNTHETIC ROUTE TO 2'-DEOXY-2',2'-DIFLUOROTETRAHYDROURIDINES**

[54] **VOIE DE SYNTHESE POUR 2'-DESOXY-2',2'-DIFLUOROTETRAHYDROURIDINES**

[72] CHOI, HYEONG-WOOK, US
[72] MATHIEU, STEVEN, US
[72] FANG, FRANK, US
[72] LEWIS, BRYAN MATTHEW, US
[73] OTSUKA PHARMACEUTICAL CO., LTD., JP

[85] 2016-04-06
[86] 2014-10-29 (PCT/US2014/062874)
[87] (WO2015/066162)
[30] US (61/896,703) 2013-10-29

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[11] **2,927,685**
[13] C

[51] **Int.Cl. A23L 2/66 (2006.01) A23C 9/13 (2006.01) A23C 9/133 (2006.01) A23L 2/02 (2006.01) A23L 2/56 (2006.01) A23L 2/60 (2006.01) A23L 2/68 (2006.01)**

[25] EN

[54] **HIGH PROTEIN, FRUIT FLAVOURED BEVERAGE; HIGH PROTEIN, FRUIT AND VEGETABLE PREPARATION; AND RELATED METHODS AND FOOD PRODUCTS**

[54] **BOISSON AROMATISEE AUX FRUITS A HAUTE TENEUR EN PROTEINES, PREPARATION AUX FRUITS ET AUX LEGUMES A HAUTE TENEUR EN PROTEINES, ET PROCEDES ET PRODUITS ALIMENTAIRES ASSOCIES**

[72] PEDERSEN, HENRIK, DK
[72] TINGLEFF, MORTEN, DK
[73] ARLA FOODS AMBA, DK
[85] 2016-04-15
[86] 2014-10-23 (PCT/EP2014/072791)
[87] (WO2015/059246)
[30] DK (PA 2013 70612) 2013-10-23

[11] **2,927,798**
[13] C

[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/4025 (2006.01) A61P 3/00 (2006.01) A61P 35/00 (2006.01) A61P 39/00 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **N-(1-HYDROXY-3-(PYRROLIDINYL)PROPAN-2-YL)PYRROLIDINE-3-CARBOXAMIDE DERIVATIVES AS GLUCOSYLCERAMIDE SYNTHASE INHIBITORS**

[54] **DERIVES N-(1-HYDROXY-3-(PYRROLIDINYL)PROPAN-2-YL)PYRROLIDINE-3-CARBOXAMIDE UTILES EN TANT QU'INHIBITEURS DE LA GLUCOSYLCERAMIDE SYNTHASE**

[72] WANG, BING, US
[73] BIOMARIN PHARMACEUTICAL INC., US
[85] 2016-04-15
[86] 2014-10-28 (PCT/US2014/062516)
[87] (WO2015/065937)
[30] US (61/897,110) 2013-10-29

[11] **2,927,848**
[13] C

[51] **Int.Cl. C12N 15/82 (2006.01) A01H 1/00 (2006.01) A01H 4/00 (2006.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/29 (2006.01)**

[25] EN

[54] **GENE FOR INDUCTION OF PARTHENOGENESIS, A COMPONENT OF APOMICICTIC REPRODUCTION**

[54] **GENE POUR L'INDUCTION D'UNE PARTHENOGENESE, CONSTITUANT DE REPRODUCTION PAR APOMIXIE**

[72] OZIAS-AKINS, PEGGY, US
[72] CONNER, JOANN A., US
[73] UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., US
[85] 2016-04-15
[86] 2014-10-21 (PCT/US2014/061630)
[87] (WO2015/061355)
[30] US (61/893,741) 2013-10-21
[30] US (62/059,842) 2014-10-03

[11] **2,928,242**
[13] C

[51] **Int.Cl. C07D 213/89 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PREPARATION OF A PDE4 INHIBITOR**

[54] **PROCEDE DE PREPARATION D'UN INHIBITEUR DE LA PDE4**

[72] FALCHI, ALESSANDRO, IT
[72] LUTERO, EMILIO, IT
[72] FERRARI, EMANUELE, IT
[72] PIVETTI, FAUSTO, IT
[72] BUSSOLATI, ROCCO, IT
[72] MARIANI, EDOARDO, IT
[72] VECCHI, ORSOLA, IT
[72] BAPPERT, ERHARD, IT
[72] VENTRICI, CATERINA, IT
[73] CHIESI FARMACEUTICI S.P.A., IT
[85] 2016-04-20
[86] 2014-10-17 (PCT/EP2014/072334)
[87] (WO2015/059050)
[30] EP (13189784.5) 2013-10-22

[11] **2,928,425**
[13] C

[51] **Int.Cl. B42D 25/30 (2014.01) B42D 25/328 (2014.01) B42D 25/373 (2014.01)**

[25] EN

[54] **COLD-WORKED METAL ARTICLES INCLUDING LUMINESCENT PHOSPHOR PARTICLES, METHODS OF FORMING THE SAME, AND METHODS OF AUTHENTICATING THE SAME**

[54] **ARTICLES DE METAL ECROUI A FROID COMPRENANT DES PARTICULES DE PHOSPHORE LUMINESCENTES, LEURS PROCEDES DE FORMATION, ET LEURS PROCEDES D'AUTHENTIFICATION**

[72] RAPOPORT, WILLIAM ROSS, US
[72] KANE, JAMES, US
[72] LAU, CARSTEN, US
[73] HONEYWELL INTERNATIONAL INC., US
[73] THE ROYAL MINT LIMITED, GB
[85] 2016-04-21
[86] 2014-10-28 (PCT/US2014/062518)
[87] (WO2015/065939)
[30] US (61/956,179) 2013-10-28
[30] US (61/980,212) 2014-04-16
[30] US (14/524,928) 2014-10-27

[11] **2,928,609**
[13] C

[51] **Int.Cl. C12Q 1/37 (2006.01)**

[25] EN

[54] **ENZYME ASSAY WITH DUPLICATE FLUOROPHORES**

[54] **TEST D'ACTIVITE ENZYMATIQUE FAISANT APPEL A DES FLUOROPHORES DOUBLES**

[72] TUCKER, WARD C., US
[73] BIOMADISON, INC., US
[85] 2016-04-22
[86] 2014-10-24 (PCT/US2014/062260)
[87] (WO2015/061738)
[30] US (61/895,533) 2013-10-25
[30] US (61/897,352) 2013-10-30
[30] US (62/014,586) 2014-06-19
[30] US (62/058,532) 2014-10-01

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[11] **2,928,676**
[13] C

[51] **Int.Cl. B26D 1/62 (2006.01) B26D 1/36 (2006.01) B26D 1/40 (2006.01) B26D 3/28 (2006.01) B26D 7/06 (2006.01) B26D 7/26 (2006.01)**

[25] EN

[54] **KNIFE ASSEMBLY FOR CORRUGATED KNIFE BLADE AND CUTTING SYSTEM EQUIPPED WITH SAME**

[54] **ENSEMBLE COUTEAU POUR LAME DE COUTEAU ONDULEE ET SYSTEME DE COUPE EQUIPE DE CELUI-CI**

[72] BUCKS, BRENT, US

[73] FAM, BE

[85] 2016-04-25

[86] 2014-11-21 (PCT/EP2014/075275)

[87] (WO2015/075180)

[30] US (61/907,073) 2013-11-21

[30] EP (14153723.3) 2014-02-03

[11] **2,928,707**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 7/02 (2006.01)**

[25] EN

[54] **SUCTION AND DISCHARGE LINES FOR A DUAL HYDRAULIC FRACTURING UNIT**

[54] **CONDUIT D'ASPIRATION ET CONDUIT D'EVACUATION DESTINES A UN MODULE DE FRACTURATION HYDRAULIQUE DOUBLE**

[72] OEHRING, JARED, US

[72] KURTZ, ROBERT, US

[73] US WELL SERVICES LLC, US

[86] (2928707)

[87] (2928707)

[22] 2016-05-03

[30] US (62/156,301) 2015-05-03

[11] **2,929,355**
[13] C

[51] **Int.Cl. H04N 5/232 (2006.01) G06T 11/60 (2006.01) H04N 5/222 (2006.01) H04N 5/335 (2011.01)**

[25] EN

[54] **WIDE AREA IMAGING SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE D'IMAGERIE DE ZONE ETENDUE**

[72] GRIFFIS, ANDREW J., US

[72] POWELL, MICHAEL B., US

[72] HOWELL, MARK J., US

[73] DIVERSIFIED INNOVATIONS FUND, LLLP, US

[85] 2016-05-02

[86] 2013-11-04 (PCT/US2013/068268)

[87] (WO2014/071291)

[30] US (61/722,120) 2012-11-02

[11] **2,930,043**
[13] C

[51] **Int.Cl. C22C 38/40 (2006.01) B22F 3/15 (2006.01)**

[25] EN

[54] **CORROSION RESISTANT DUPLEX STEEL ALLOY, OBJECTS MADE THEREOF, AND METHOD OF MAKING THE ALLOY**

[54] **ALLIAGE D'ACIER DUPLEX RESISTANT A LA CORROSION, OBJETS EN ETANT CONSTITUES, ET PROCEDE DE FABRICATION DE L'ALLIAGE**

[72] LARSSON, LINN, SE

[72] GULLBERG, DANIEL, SE

[72] KIVISAKK, ULF, SE

[72] OSTLUND, MARTIN, SE

[72] SCHEERDER, ALEXANDER ALEIDA ANTONIUS, NL

[73] AB SANDVIK MATERIALS TECHNOLOGY, SE

[85] 2016-05-09

[86] 2014-12-23 (PCT/EP2014/079254)

[87] (WO2015/097253)

[30] EP (13199698.5) 2013-12-27

[11] **2,930,295**
[13] C

[51] **Int.Cl. F01D 9/02 (2006.01) F01D 5/22 (2006.01) F01D 5/30 (2006.01) F01D 25/24 (2006.01)**

[25] EN

[54] **BLADE AND SHROUD WITH SOCKET FOR A COMPRESSOR OF AN AXIAL TURBOMACHINE**

[54] **PALE ET CARENAGE A PRISE DESTINES A UN COMPRESSEUR D'UNE TURBOMACHINE AXIALE**

[72] CORTEQUISSE, JEAN-FRANCOIS, BE

[73] SAFRAN AERO BOOSTERS SA, BE

[86] (2930295)

[87] (2930295)

[22] 2016-05-18

[30] BE (2015/5316) 2015-05-21

[11] **2,930,318**
[13] C

[51] **Int.Cl. C10M 169/04 (2006.01)**

[25] EN

[54] **LUBRICATING OILS CONTAINING SILICONE OIL**

[54] **HUILES DE LUBRIFICATION CONTENANT DE L'HUILE DE SILICONE**

[72] KOLEKAR, ANANT S., US

[72] OLVER, ANDREW V., GB

[72] SWORSKI, ADAM E., US

[72] LOCKWOOD, FRANCES E., US

[72] WU, GEFEI, US

[72] CHENG, XIURONG, US

[73] IMPERIAL INNOVATIONS LIMITED, GB

[73] VALVOLINE LICENSING AND INTELLECTUAL PROPERTY LLC, US

[85] 2016-05-10

[86] 2014-11-20 (PCT/US2014/066631)

[87] (WO2015/077461)

[30] US (61/907,661) 2013-11-22

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[11] **2,930,749**
[13] C

[51] **Int.Cl. C09D 167/08 (2006.01) C09F 9/00 (2006.01)**
[25] EN
[54] **DRIER COMPOSITION AND USE THEREOF**
[54] **COMPOSITION DE SICCATIF ET SON UTILISATION**
[72] ANG, TJIAN HONG, NL
[72] WEIJNEN, JOHN, NL
[73] PPG EUROPE B.V., NL
[85] 2016-05-16
[86] 2014-12-03 (PCT/EP2014/076431)
[87] (WO2015/082553)
[30] EP (PCT/EP2013/075430) 2013-12-03

[11] **2,930,812**
[13] C

[51] **Int.Cl. C25B 15/02 (2021.01) C25B 1/23 (2021.01) C25B 1/50 (2021.01) C25B 9/75 (2021.01) C07C 1/04 (2006.01) C07C 1/12 (2006.01) C25B 1/04 (2021.01) C25B 15/08 (2006.01)**
[25] FR
[54] **METHOD FOR OPERATING AN SOEC-TYPE STACK REACTOR FOR PRODUCING METHANE IN THE ABSENCE OF AVAILABLE ELECTRICITY**
[54] **PROCEDE DE FONCTIONNEMENT D'UN REACTEUR A EMPILEMENT DE TYPE SOEC POUR PRODUIRE DU METHANE, EN L'ABSENCE D'ELECTRICITE DISPONIBLE**
[72] REYTIER, MAGALI, FR
[72] PETITJEAN, MARIE, FR
[72] ROUX, GUILHEM, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2016-05-16
[86] 2014-11-19 (PCT/IB2014/066171)
[87] (WO2015/083024)
[30] FR (1362024) 2013-12-03

[11] **2,931,007**
[13] C

[51] **Int.Cl. E03B 7/07 (2006.01) G05B 19/042 (2006.01) G05D 7/06 (2006.01)**
[25] EN
[54] **DETECTION AND MITIGATION OF WATER LEAKS WITH HOME AUTOMATION**
[54] **DETECTION ET ATTENUATION DES FUITES D'EAU AVEC LA DOMOTIQUE**
[72] MCCARTHY, BERNARD ANTHONY, III, US
[72] KUMMER, DAVID, US
[73] DISH TECHNOLOGIES L.L.C., US
[85] 2016-05-17
[86] 2014-09-12 (PCT/US2014/055441)
[87] (WO2015/088608)
[30] US (61/914,856) 2013-12-11
[30] US (14/485,038) 2014-09-12

[11] **2,931,111**
[13] C

[51] **Int.Cl. C07D 493/10 (2006.01) A61K 31/351 (2006.01) A61P 35/00 (2006.01) C07D 309/14 (2006.01)**
[25] EN
[54] **ANTI-CANCER AGENTS AND PREPARATION THEREOF**
[54] **AGENTS ANTI-CANCEREUX ET LEUR PREPARATION**
[72] GHOSH, ARUN K., US
[73] PURDUE RESEARCH FOUNDATION, US
[85] 2016-05-18
[86] 2014-11-19 (PCT/US2014/066458)
[87] (WO2015/077370)
[30] US (61/906,133) 2013-11-19

[11] **2,931,726**
[13] C

[51] **Int.Cl. C08B 37/08 (2006.01) A61K 31/728 (2006.01) A61P 19/02 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **DEUTERIUM-ENRICHED HYALURONAN**
[54] **HYALURONANE ENRICHI EN DEUTERIUM**
[72] PRESTWICH, GLENN, US
[73] DEUTERIA BIOMATERIALS, LLC, US
[85] 2016-05-25
[86] 2014-11-25 (PCT/US2014/067201)
[87] (WO2015/077736)
[30] US (61/908,404) 2013-11-25
[30] US (61/930,273) 2014-01-22

[11] **2,931,767**
[13] C

[51] **Int.Cl. G08B 15/00 (2006.01) A47B 81/00 (2006.01) E05G 1/00 (2006.01)**
[25] EN
[54] **SECURITY SYSTEM FOR IDENTIFYING DISTURBANCES IN A BUILDING**
[54] **SYSTEME DE SECURITE POUR IDENTIFIER DES PERTURBATIONS DANS UN BATIMENT**
[72] PENLAND, RUSTIN B., US
[73] PENLAND, RUSTIN B., US
[85] 2016-05-26
[86] 2014-11-19 (PCT/US2014/066388)
[87] (WO2015/088722)
[30] US (14/104,944) 2013-12-12

[11] **2,931,980**
[13] C

[51] **Int.Cl. E02F 3/88 (2006.01) E21C 50/00 (2006.01)**
[25] EN
[54] **SUBSURFACE MINING VEHICLE AND METHOD FOR COLLECTING MINERAL DEPOSITS FROM A SEA BED AT GREAT DEPTHS AND TRANSPORTING SAID DEPOSITS TO A FLOATING VESSEL**
[54] **VEHICULE MINIER SOUTERRAIN, ET PROCEDE POUR COLLECTER DES DEPOTS MINERAUX D'UN FOND MARIN A DE GRANDES PROFONDEURS ET TRANSPORTER LESDITS DEPOTS VERS UN VAISSEAU FLOTTANT**
[72] HEILER, JOHAN, BE
[72] LUCIEER, PIETER ABRAHAM, NL
[72] DE BRUYNE, KRIS, BE
[72] STOFFERS, HARMEN DERK, NL
[73] DEEPTTECH NV, BE
[85] 2016-05-27
[86] 2014-12-02 (PCT/EP2014/076198)
[87] (WO2015/082445)
[30] NL (2011880) 2013-12-02
[30] NL (2012579) 2014-04-07

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[11] **2,932,131**
[13] C

[51] **Int.Cl. A61B 1/07 (2006.01) A61B 1/005 (2006.01) A61B 3/10 (2006.01) A61B 5/00 (2006.01)**

[25] EN

[54] **IMAGING PROBES AND ASSOCIATED DEVICES, SYSTEMS, AND METHODS UTILIZING AN ELASTOMERIC OPTICAL ELEMENT**

[54] **SONDES D'IMAGERIE ET DISPOSITIFS, SYSTEMES ET PROCEDES ASSOCIES UTILISANT UN ELEMENT OPTIQUE ELASTOMERE**

[72] WHEATLEY, BARRY L., US

[72] PARTO, KAMBIZ, US

[73] ALCON INC., US

[85] 2016-05-30

[86] 2014-12-08 (PCT/US2014/069101)

[87] (WO2015/094770)

[30] US (14/137,568) 2013-12-20

[11] **2,932,491**
[13] C

[51] **Int.Cl. F01D 15/04 (2006.01) F01D 25/28 (2006.01) F02C 3/04 (2006.01) F02C 7/143 (2006.01)**

[25] EN

[54] **GAS TURBINE OFFSHORE INSTALLATIONS**

[54] **INSTALLATIONS DE TURBINE A GAZ EN MER**

[72] MARCUCCI, DANIELE, IT

[72] CARMIGNANI, MASSIMO, IT

[72] CAPANNI, FRANCESCO, IT

[72] KAY, IAN PAUL, US

[72] BIANCHI, PAOLO, IT

[73] NUOVO PIGNONE SRL, IT

[85] 2016-06-02

[86] 2014-12-05 (PCT/EP2014/076761)

[87] (WO2015/086464)

[30] IT (FI2013A000297) 2013-12-09

[11] **2,932,511**
[13] C

[51] **Int.Cl. F28C 3/06 (2006.01) F24F 5/00 (2006.01) F24F 12/00 (2006.01) F28D 5/00 (2006.01) F28F 9/22 (2006.01)**

[25] FR

[54] **DEVICE FOR PRODUCING A STREAM OF AIR THROUGH A VOLUME OF LIQUID**

[54] **DISPOSITIF DE PRODUCTION D'UN FLUX D'AIR A TRAVERS UN VOLUME DE LIQUIDE**

[72] ZEMMOURI, JAOUAD, FR

[73] STARKLAB, FR

[85] 2016-06-02

[86] 2014-12-09 (PCT/FR2014/053225)

[87] (WO2015/086979)

[30] FR (1362386) 2013-12-11

[30] FR (1460141) 2014-10-22

[11] **2,932,683**
[13] C

[51] **Int.Cl. E03D 9/02 (2006.01)**

[25] EN

[54] **DEVICE FOR SUPPLYING A PRODUCT INSIDE A TOILET BOWL**

[54] **DISPOSITIF POUR LA DISTRIBUTION D'UN PRODUIT A L'INTERIEUR DE LA CUVETTE DES TOILETTES**

[72] DOYLE, DOMINIC, ES

[72] MAYOR SANS, FERNANDO, ES

[72] RUIZ BALLESTEROS, JULIO CESAR, ES

[72] LLORENTE ALONSO, JOAQUIN, ES

[73] ZOBELE ESPANA, S.A., ES

[85] 2016-06-03

[86] 2014-12-04 (PCT/ES2014/070896)

[87] (WO2015/082748)

[30] ES (P201331779) 2013-12-05

[11] **2,932,936**
[13] C

[51] **Int.Cl. B64D 41/00 (2006.01)**

[25] FR

[54] **SUSPENSION OF A TUBULAR ELEMENT IN AN AIRCRAFT COMPARTMENT**

[54] **SUSPENSION D'UN ELEMENT TUBULAIRE DANS UN COMPARTIMENT D'AERONEF**

[72] CAZENAVE, OLIVIER, FR

[72] BARNETO, XAVIER, FR

[72] LALANNE, CLEMENT, FR

[73] MICROTURBO, FR

[85] 2016-06-06

[86] 2014-12-08 (PCT/FR2014/053212)

[87] (WO2015/092207)

[30] FR (1362729) 2013-12-16

[11] **2,933,123**
[13] C

[51] **Int.Cl. F01D 5/14 (2006.01) F01D 11/00 (2006.01)**

[25] FR

[54] **TURBOMACHINE COMPONENT WITH NON-AXISYMMETRIC SURFACE DEFINING A PLURALITY OF FINS**

[54] **PIECE DE TURBOMACHINE A SURFACE NON-AXISYMETRIQUE DEFINISSANT UNE PLURALITE D'AILETTES**

[72] MANIERE, VIANNEY CHRISTOPHE MARIE, FR

[72] VOLLEBREGT, MATTHIEU JEAN LUC, FR

[72] LOUPY, GAETAN JEAN MARIE, FR

[72] MAUCLAIR, PAUL HENRI JOSEPH, FR

[73] SNECMA, FR

[85] 2016-06-08

[86] 2014-12-18 (PCT/FR2014/053437)

[87] (WO2015/092306)

[30] FR (1362927) 2013-12-18

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[11] **2,933,168**
[13] C

[51] **Int.Cl. H01M 8/10 (2016.01) H01M 4/92 (2006.01) H01M 8/12 (2016.01)**

[25] EN

[54] **A PROCESS FOR THE PREPARATION OF PBI BASED MEMBRANE ELECTRODE ASSEMBLY (MEA) WITH IMPROVED FUEL CELL PERFORMANCE AND STABILITY**

[54] **PROCESSUS POUR LA PREPARATION D'ENSEMBLE MEMBRANE ELECTRODE (MEA) A BASE DE PBI A RENDEMENT DE PILE A COMBUSTIBLE ET STABILITE AMELIORES**

[72] KURUNGOT, SREEKUMAR, IN

[72] ILLATHVALAPPIL, RAJITH, IN

[72] BHANGE, SIDDHESHWAR NAVANATH, IN

[72] UNNI, SREEKUTTAN MARAVEEDU, IN

[73] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN

[85] 2016-06-08

[86] 2014-12-09 (PCT/IN2014/000764)

[87] (WO2015/087348)

[30] IN (3569/DEL/2013) 2013-12-09

[11] **2,933,177**
[13] C

[51] **Int.Cl. C23F 11/12 (2006.01) C07C 69/75 (2006.01)**

[25] EN

[54] **ORGANIC SALTS OF GLYCERIDE-CYCLIC CARBOXYLIC ACID ANHYDRIDE ADDUCTS AS CORROSION INHIBITORS**

[54] **SELS ORGANIQUES DE PRODUITS D'ADDITION GLYCERIDE-ANHYDRIDE D'ACIDE CARBOXYLIQUE CYCLIQUE UTILISES EN TANT QU'INHIBITEURS DE CORROSION**

[72] MCGUINNESS, MARK J., US

[73] THE LUBRIZOL CORPORATION, US

[85] 2016-06-08

[86] 2014-12-05 (PCT/US2014/068707)

[87] (WO2015/088893)

[30] US (61/913,982) 2013-12-10

[11] **2,933,304**
[13] C

[51] **Int.Cl. G01C 21/20 (2006.01) G09B 29/00 (2006.01)**

[25] EN

[54] **A SYSTEM AND METHOD FOR UPDATING CARTOGRAPHIC INFORMATION**

[54] **SYSTEME ET METHODE DE MISE A JOUR DE DONNEES CARTOGRAPHIQUES**

[72] CARNEVALI, GIUSEPPE, IT

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

[85] 2016-06-09

[86] 2014-12-23 (PCT/IB2014/003100)

[87] (WO2015/101834)

[30] US (14/146,955) 2014-01-03

[11] **2,933,477**
[13] C

[51] **Int.Cl. D06M 15/19 (2006.01) D06M 15/327 (2006.01) D06M 15/53 (2006.01) D06M 15/55 (2006.01) D06M 15/59 (2006.01) D06M 15/63 (2006.01) D06M 23/10 (2006.01)**

[25] EN

[54] **CARBON FIBERS AND HIGH PERFORMANCE FIBERS FOR COMPOSITE APPLICATIONS**

[54] **FIBRES DE CARBONE ET FIBRES A PERFORMANCE ELEVEE POUR DES APPLICATIONS COMPOSITES**

[72] CHIU, SHAO C., US

[72] TANG, LONGGUI, US

[72] HARMON, BILLY, US

[73] CYTEC INDUSTRIES INC., US

[85] 2016-06-10

[86] 2014-11-06 (PCT/US2014/064234)

[87] (WO2015/116276)

[30] US (61/920,040) 2013-12-23

[11] **2,933,717**
[13] C

[51] **Int.Cl. C07D 317/38 (2006.01) C07D 303/46 (2006.01) C08K 5/20 (2006.01)**

[25] EN

[54] **FIVE-MEMBERED CYCLIC BISCARBONATES BEARING AMIDE LINKAGES, THEIR PREPARATION AND THEIR USES FOR THE PREPARATION OF POLYMERS**

[54] **BICARBONATES CYCLIQUES A CINQ CHAINONS PORTANT DES LIAISONS AMIDE, LEUR PREPARATION ET LEURS UTILISATIONS EN VUE DE LA PREPARATION DE POLYMERES**

[72] CRAMAIL, HENRI, FR

[72] GRAU, ETIENNE, FR

[72] ALFOS, CARINE, FR

[72] MAISONNEUVE, LISE, FR

[73] UNIVERSITE DE BORDEAUX, FR

[73] INSTITUT POLYTECHNIQUE DE BORDEAUX, FR

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (C.N.R.S.), FR

[73] INSTITUT DES CORPS GRAS ETUDES ET RECHERCHES TECHNIQUES - ITERG, FR

[85] 2016-06-14

[86] 2014-12-16 (PCT/EP2014/077977)

[87] (WO2015/091494)

[30] EP (13306736.3) 2013-12-16

[11] **2,934,121**
[13] C

[51] **Int.Cl. C21B 5/06 (2006.01) C21B 9/14 (2006.01)**

[25] EN

[54] **METHOD FOR OPERATING A TOP GAS RECYCLING BLAST FURNACE INSTALLATION**

[54] **PROCEDE POUR EXPLOITER UNE INSTALLATION DE HAUT-FOURNEAU AVEC RECYCLAGE DE GAZ DE GUEULARD**

[72] GRANT, MICHAEL, DE

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

[85] 2016-06-16

[86] 2014-11-27 (PCT/EP2014/075872)

[87] (WO2015/090900)

[30] EP (13306802.3) 2013-12-20

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[11] **2,934,446**
[13] C

[51] **Int.Cl. E21B 33/035 (2006.01) E21B 7/20 (2006.01) E21B 33/043 (2006.01)**
[25] EN
[54] **WELLBORE INSTALLATION APPARATUS AND ASSOCIATED METHODS**
[54] **APPAREIL D'INSTALLATION DE PUIITS DE FORAGE ET PROCEDES ASSOCIES**
[72] ELLISON, STUART, GB
[73] ENOVATE SYSTEMS LIMITED, GB
[85] 2016-06-17
[86] 2015-02-09 (PCT/GB2015/050341)
[87] (WO2015/118348)
[30] GB (1402176.0) 2014-02-07

[11] **2,934,680**
[13] C

[51] **Int.Cl. A62C 37/40 (2006.01) A62C 3/00 (2006.01)**
[25] EN
[54] **CONTROLLED SYSTEM AND METHODS FOR STORAGE FIRE PROTECTION**
[54] **SYSTEME ET PROCEDES COMMANDES DE PROTECTION DE MARCHANDISES CONTRE UN INCENDIE**
[72] MAGNONE, ZACHARY L., US
[72] FARLEY, DANIEL G., US
[72] DESROSIER, JOHN, US
[72] BRIGHENTI, DONALD D., US
[72] BONNEAU, RICHARD P., US
[73] TYCO FIRE PRODUCTS LP, US
[73] TYCO FIRE & SECURITY GMBH, CH
[85] 2016-06-20
[86] 2014-12-23 (PCT/US2014/072246)
[87] (WO2015/100367)
[30] US (61/920,314) 2013-12-23
[30] US (61/920,274) 2013-12-23
[30] US (62/009,778) 2014-06-09

[11] **2,934,686**
[13] C

[51] **Int.Cl. B60C 27/04 (2006.01)**
[25] EN
[54] **DEVICE TO INCREASE THE GRIP OF THE TYRES.**
[54] **DISPOSITIF POUR ACCROITRE L'ADHERENCE DE PNEUS.**
[72] FITTANTE, ALDO, IT
[72] BENEDETTI, IVANO, IT
[73] FITTANTE, ALDO, IT
[73] FITTANTE S. BREVETTI & INNOVAZIONE S.R.L., IT
[85] 2016-06-20
[86] 2014-12-29 (PCT/IB2014/002893)
[87] (WO2015/101825)
[30] IT (FI2014A000001) 2014-01-02
[30] IT (FI2014A000187) 2014-08-07

[11] **2,934,832**
[13] C

[51] **Int.Cl. A61K 31/7048 (2006.01) A61K 9/20 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/26 (2006.01) A61K 47/32 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **SOLID PREPARATIONS CONTAINING TOFOGLIFLOZIN AND PROCESS OF PRODUCING THE SAME**
[54] **PREPARATION SOLIDE COMPRENANT DE LA TOFOGLIFLOZINE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] WADA, KENTA, JP
[72] HIRAYAMA, TOMOAKI, JP
[72] SAKAI, KENICHI, JP
[72] YOSHIMURA, SHIHO, JP
[73] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2016-06-22
[86] 2014-12-26 (PCT/JP2014/084561)
[87] (WO2015/099139)
[30] JP (2013-273060) 2013-12-27

[11] **2,935,077**
[13] C

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SULFONAMIDE-CONTAINING LINKAGE SYSTEMS FOR DRUG CONJUGATES**
[54] **SYSTEMES DE LIAISON CONTENANT UN SULFONAMIDE POUR CONJUGUES DE MEDICAMENTS**
[72] WINTERS, GEOFFREY C., CA
[72] MANDEL, ALEXANDER L., CA
[72] BOURQUE, ELYSE MARIE JOSEE, CA
[72] RICH, JAMES R., CA
[72] HSIEH, TOM HAN HSIAO, CA
[73] ZYMEWORKS INC., CA
[85] 2016-06-27
[86] 2014-12-29 (PCT/CA2014/000920)
[87] (WO2015/095953)
[30] US (61/921,242) 2013-12-27
[30] US (62/051,899) 2014-09-17

[11] **2,935,116**
[13] C

[51] **Int.Cl. E21B 33/06 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **RAM ASSEMBLIES FOR BLOWOUT PREVENTERS**
[54] **ENSEMBLES MACHOIRES POUR BLOCS OBTURATEURS**
[72] PAINTER, JAY P., US
[72] KREJCI, MICHAEL C., US
[72] DAVIS, ALAN, US
[72] LEOW, KEVIN, SG
[72] ARIP, SUFIAN MOHAMED, SG
[73] CAMERON TECHNOLOGIES LIMITED, NL
[85] 2016-06-23
[86] 2014-12-29 (PCT/US2014/072526)
[87] (WO2015/103123)
[30] US (61/921,911) 2013-12-30
[30] US (14/183,241) 2014-02-18

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[11] **2,936,303**
[13] C

[51] **Int.Cl. A01N 45/00 (2006.01) A01P 21/00 (2006.01)**
[25] EN
[54] **USE OF GIBBERELLIN 7 FOR THINNING OF STONE FRUIT**
[54] **UTILISATION DE GIBBERELLINE 7 POUR LA DILUTION DE FRUITS A NOYAU**
[72] WIKELLY, PHILIP SIMON, GB
[72] REIGNARD, JOELLE, FR
[72] FORNEY, KEVIN, US
[73] FINE AGROCHEMICALS LIMITED, GB
[85] 2016-07-08
[86] 2015-01-08 (PCT/EP2015/050272)
[87] (WO2015/104344)
[30] EP (14150671.7) 2014-01-09

[11] **2,936,507**
[13] C

[51] **Int.Cl. B64D 13/00 (2006.01)**
[25] EN
[54] **REDUCED COGNITIVE FUNCTION DETECTION AND ALLEVIATION SYSTEM FOR A PILOT**
[54] **SYSTEME DE DETECTION ET DE SOULAGEMENT D'UNE FONCTION COGNITIVE REDUITE POUR UN PILOTE**
[72] PEAKE, STEVEN C., US
[73] COBHAM MISSION SYSTEMS DAVENPORT LSS INC., US
[85] 2016-07-11
[86] 2015-01-12 (PCT/US2015/011027)
[87] (WO2015/106202)
[30] US (61/925,807) 2014-01-10

[11] **2,936,640**
[13] C

[51] **Int.Cl. A23C 19/086 (2006.01) A23C 19/09 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING CHEESE CHIPS AND RAISED CHEESE CHIPS**
[54] **METHODE DE PRODUCTION DE CROUSTILLES AU FROMAGE ET DE CROUSTILLES AU FROMAGE SURELEVEES**
[72] RADAS, PAULINA, PL
[72] RADAS, PAWEL, PL
[73] PAULA INGREDIENTS SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA SPOLKA KOMANDYTOWA, PL
[86] (2936640)
[87] (2936640)
[22] 2016-07-20
[30] PL (P.413 205) 2015-07-21

[11] **2,936,806**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01)**
[25] EN
[54] **TOPICAL DELIVERY FORMULATION**
[54] **FORMULATION A ADMINISTRATION TOPIQUE**
[72] PATE, JAMES, US
[72] SHUB, NATALYA, US
[73] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US
[85] 2016-07-13
[86] 2015-01-20 (PCT/US2015/012031)
[87] (WO2015/109312)
[30] US (61/929,371) 2014-01-20

[11] **2,937,396**
[13] C

[51] **Int.Cl. F01D 25/18 (2006.01) B01D 35/28 (2006.01) F01M 11/03 (2006.01) F02C 7/06 (2006.01) F16N 39/06 (2006.01)**
[25] EN
[54] **STRAINER FOR TURBINE ENGINE OIL**
[54] **POMMELE DESTINEE AU FILTRAGE D'HUILE DE MOTEUR DE TURBINE**
[72] JACQUERIE, JEAN-LOUIS, BE
[72] HENKES, TOM, BE
[72] TOSSENS, LAURENT, BE
[72] FELLIN, NICOLAS, BE
[72] CHENOUX, MATHIEU, BE
[73] SAFRAN AERO BOOSTERS SA, BE
[86] (2937396)
[87] (2937396)
[22] 2016-07-28
[30] BE (BE2015/5500) 2015-08-06

[11] **2,938,169**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/454 (2006.01) C07D 401/04 (2006.01) C07D 405/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 491/107 (2006.01)**
[25] EN
[54] **BICYCLIC AZA COMPOUNDS AS MUSCARINIC M1 RECEPTOR AGONISTS**
[54] **COMPOSES D'AZA BICYCLIQUE COMME AGONISTES DE RECEPTEUR MUSCARINIQUE M1**
[72] BROWN, GILES ALBERT, GB
[72] CANSFIELD, JULIE ELAINE, GB
[72] CONGREVE, MILES STUART, GB
[72] O'BRIEN, MICHAEL ALISTAIR, GB
[72] PICKWORTH, MARK, GB
[72] RACKHAM, MARK DAVID, GB
[72] TEHAN, BENJAMIN GERALD, GB
[72] TEOBOLD, BARRY JOHN, GB
[73] HEPTARES THERAPEUTICS LIMITED, GB
[85] 2016-07-28
[86] 2015-02-06 (PCT/GB2015/050331)
[87] (WO2015/118342)
[30] GB (1402013.5) 2014-02-06
[30] GB (1416622.7) 2014-09-19

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[11] **2,938,185**
[13] C

[51] **Int.Cl. H04H 60/82 (2009.01) H04H 20/44 (2009.01) H04H 20/95 (2009.01) H04H 40/18 (2009.01) H04H 60/15 (2009.01)**

[25] EN

[54] **RECEIVING APPARATUS, RECEIVING METHOD, TRANSMITTING APPARATUS, AND TRANSMITTING METHOD**

[54] **APPAREIL DE RECEPTION, PROCEDE DE RECEPTION, APPAREIL D'EMISSION ET PROCEDE D'EMISSION**

[72] KITAHARA, JUN, JP

[72] KITAZATO, NAOHISA, JP

[72] YAMAGISHI, YASUAKI, JP

[73] SONY CORPORATION, JP

[85] 2016-07-28

[86] 2015-02-04 (PCT/JP2015/000500)

[87] (WO2015/122152)

[30] JP (2014-026224) 2014-02-14

[11] **2,938,465**
[13] C

[51] **Int.Cl. B60R 25/00 (2013.01) H04K 3/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR VEHICLE TRACKING**

[54] **SYSTEMES ET PROCEDES DE LOCALISATION DE VEHICULES**

[72] HAYMAN, MEIR, IL

[73] ERM ELECTRONIC SYSTEMS LTD., IL

[85] 2016-08-01

[86] 2015-02-04 (PCT/IL2015/050124)

[87] (WO2015/118530)

[30] IL (230840) 2014-02-06

[11] **2,938,662**
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01)**

[25] EN

[54] **FLEXIBLE ANKLE SUPPORT SYSTEM**

[54] **SYSTEME DE SUPPORT FLEXIBLE POUR LA CHEVILLE**

[72] MADDEN, DAVID, US

[72] COZAD, MATTHEW, US

[72] BOWEN, BRIAN, US

[72] LEDEZMA, FRANK, US

[73] EXOS LLC, US

[85] 2016-08-03

[86] 2015-02-02 (PCT/US2015/014134)

[87] (WO2015/119897)

[30] US (61/935,756) 2014-02-04

[30] US (61/935,755) 2014-02-04

[11] **2,938,971**
[13] C

[51] **Int.Cl. C07D 493/08 (2006.01) A61K 31/352 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **AZA-EPOXY-GUAIANE DERIVATIVES AND TREATMENT OF CANCER**

[54] **DERIVES D'AZA-EPOXY-GUAIANE ET TRAITEMENT DU CANCER**

[72] CHAIN, WILLIAM J., US

[72] BEUTLER, JOHN A., US

[72] FASH, DAVID, US

[72] FIGG, WILLIAM D., US

[72] LI, ZHENWU, US

[72] PEER, CODY JOHN, US

[72] RAMOS, JOE WILLIAM, US

[72] SULZMAIER, FLORIAN J., US

[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[73] UNIVERSITY OF HAWAII, US

[85] 2016-08-05

[86] 2015-02-05 (PCT/US2015/014601)

[87] (WO2015/120140)

[30] US (61/936,285) 2014-02-05

[30] US (62/018,381) 2014-06-27

[11] **2,939,079**
[13] C

[51] **Int.Cl. B60J 5/10 (2006.01)**

[25] EN

[54] **COMPOSITE LIFTGATE**

[54] **HAYON COMPOSITE**

[72] KUNTZE, CHRISTOPHER J., US

[73] MAGNA INTERNATIONAL INC., CA

[85] 2016-08-08

[86] 2015-02-11 (PCT/US2015/015438)

[87] (WO2015/123312)

[30] US (61/938,291) 2014-02-11

[11] **2,939,217**
[13] C

[51] **Int.Cl. D01F 8/12 (2006.01) D02G 1/02 (2006.01)**

[25] EN

[54] **CRIMPED POLYAMIDE YARN, AND WOVEN OR KNIT FABRIC EMPLOYING SAME**

[54] **FIL CREPE POLYAMIDE, ET ARTICLE TISSE/TRICOTE METTANT EN ŒUVRE CELUI-CI**

[72] DATE, HIROAKI, JP

[72] SHIBATA, YASUHIRO, JP

[72] MATSUKI, YOSUKE, JP

[72] JING, HONGCHUAN, JP

[73] TORAY INDUSTRIES, INC., JP

[85] 2016-08-09

[86] 2015-02-25 (PCT/JP2015/055367)

[87] (WO2015/129735)

[30] JP (2014-035053) 2014-02-26

[11] **2,940,093**
[13] C

[51] **Int.Cl. G01N 21/01 (2006.01) G01N 1/31 (2006.01) G02B 21/34 (2006.01)**

[25] EN

[54] **AUTOMATED SPECIMEN PROCESSING SYSTEMS AND MULTISTEP PROCESSING OF MICROSCOPE SLIDES**

[54] **SYSTEMES AUTOMATISES DE TRAITEMENT D'ECHANTILLONS ET TRAITEMENT EN PLUSIEURS ETAPES DE LAMES DE MICROSCOPE**

[72] SHOWALTER, WAYNE A., US

[72] SMITH, NATHAN, US

[72] HOWLEY, PAUL, AU

[73] VENTANA MEDICAL SYSTEMS, INC., US

[85] 2016-08-18

[86] 2015-03-27 (PCT/EP2015/056770)

[87] (WO2015/150278)

[30] US (61/972,725) 2014-03-31

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[11] **2,940,111**
[13] C

[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6816 (2018.01) C12Q 1/6841 (2018.01)**

[25] EN

[54] **SINGLE-STRANDED OLIGONUCLEOTIDE PROBES FOR CHROMOSOME OR GENE COPY ENUMERATION**

[54] **SONDES OLIGONUCLEOTIDIQUES MONOCATENAIREES POUR ENUMERATION DE COPIES DE CHROMOSOMES OU DE GENES**

[72] FARRELL, MICHAEL, US
[72] HUBBARD, ANTONY, US
[72] JOHNSON, DONALD, US
[72] KELLY, BRIAN D., US
[72] SHINGLER, TAYLOR, US
[72] TANG, LEI, US
[72] ZHANG, WENJUN, US
[73] VENTANA MEDICAL SYSTEMS, INC., US

[85] 2016-08-18
[86] 2015-02-20 (PCT/EP2015/053555)
[87] (WO2015/124702)
[30] US (61/943,196) 2014-02-21
[30] US (62/094,543) 2014-12-19

[11] **2,940,171**
[13] C

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/12 (2006.01) F04D 13/10 (2006.01) F04D 31/00 (2006.01)**

[25] EN

[54] **DOWNHOLE WET GAS COMPRESSOR PROCESSOR**

[54] **PROCESSEUR A COMPRESSEUR DE GAZ HUMIDE DE FOND DE TROU**

[72] HUGHES, MICHAEL FRANKLIN, US
[72] VAN DAM, JEREMY DANIEL, US
[72] MICHELASSI, VITTORIO, US
[72] HARBAN, SCOTT ALAN, US
[72] DU CAUZE DE NAZELLE, RENE, DE
[73] BAKER HUGHES ESP, INC., US

[85] 2016-08-18
[86] 2015-02-24 (PCT/US2015/017182)
[87] (WO2015/127410)
[30] US (61/943,866) 2014-02-24

[11] **2,940,316**
[13] C

[51] **Int.Cl. C12P 21/02 (2006.01) A61K 38/16 (2006.01) A61K 45/00 (2006.01) C07K 14/34 (2006.01) C12N 1/21 (2006.01) C12N 15/00 (2006.01) C12N 15/31 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **ENHANCED PRODUCTION OF RECOMBINANT CRM197 IN E. COLI**

[54] **PRODUCTION ACCRUE DE CRM197 RECOMBINANTE CHEZ E. COLI**

[72] BLATTNER, CRISTOPHER R., US
[72] FRISCH, DAVID A., US
[72] NOVY, ROBERT E., US
[72] HENKER, TERRANCE M., US
[72] STEFFEN, ERIC A., US
[72] BLATTNER, FREDERICK R., US
[72] CHOI, HYUNSIK, US
[72] POSFAI, GYORGY, HU
[72] LANDRY, CHARLES F., US
[73] SCARAB GENOMICS, LLC, US

[85] 2016-08-19
[86] 2015-03-02 (PCT/US2015/018338)
[87] (WO2015/134402)
[30] US (61/947,234) 2014-03-03

[11] **2,940,621**
[13] C

[51] **Int.Cl. C07D 235/02 (2006.01) A61K 31/41 (2006.01) A61K 31/4164 (2006.01) A61K 31/4166 (2006.01) A61K 31/421 (2006.01) A61K 31/427 (2006.01) A61K 31/437 (2006.01) A61K 31/4375 (2006.01) A61K 31/4439 (2006.01) A61K 31/4709 (2006.01) A61K 31/497 (2006.01) A61K 31/498 (2006.01) A61K 31/4985 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61P 1/00 (2006.01) A61P 9/10 (2006.01) A61P 11/00 (2006.01) A61P 13/02 (2006.01) A61P 25/00 (2006.01) A61P 29/00 (2006.01) A61P 37/02 (2006.01) A61P 43/00 (2006.01) C07D 263/52 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/06 (2006.01) C07D 403/10 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 409/10 (2006.01) C07D 409/14 (2006.01) C07D 413/06 (2006.01) C07D 413/14 (2006.01) C07D 417/06 (2006.01) C07D 417/10 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 473/00 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 491/056 (2006.01)**

[25] EN

[54] **AZASPIRO DERIVATIVES AS TRPM8 ANTAGONISTS**

[54] **DERIVES AZASPIRO EN TANT QU'ANTAGONISTES DE TRPM8**

[72] SHISHIDO, YUJI, JP
[72] OHMI, MASASHI, JP
[72] ANDO, KAZUO, JP
[73] RAQUALIA PHARMA INC., JP

[85] 2016-08-24
[86] 2015-03-16 (PCT/JP2015/001454)
[87] (WO2015/136947)
[30] US (61/953,521) 2014-03-14

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[11] **2,940,729**
[13] C

[51] **Int.Cl. E21B 37/02 (2006.01) E21B 23/00 (2006.01) E21B 37/00 (2006.01)**

[25] EN

[54] **TOOL FOR INTERNAL CLEANING OF A TUBING OR CASING**

[54] **OUTIL PERMETTANT UN NETTOYAGE INTERNE D'UNE COLONNE DE PRODUCTION OU D'UN TUBAGE**

[72] HAUGLAND, LASSE, NO

[72] TOGE, GUNN ELIN, NO

[73] QINTERRA TECHNOLOGIES AS, NO

[85] 2016-08-24

[86] 2015-02-18 (PCT/NO2015/050035)

[87] (WO2015/137819)

[30] NO (20140313) 2014-03-11

[11] **2,940,875**
[13] C

[51] **Int.Cl. H05B 6/10 (2006.01) E21B 37/00 (2006.01) E21B 43/24 (2006.01) H01B 7/02 (2006.01)**

[25] EN

[54] **INDUCTION CABLE, COUPLING DEVICE, AND METHOD FOR PRODUCING AN INDUCTION CABLE**

[54] **CABLE A INDUCTION, DISPOSITIF D'ACCOUPLLEMENT AINSI QUE PROCEDE SERVANT A FABRIQUER UN CABLE A INDUCTION**

[72] ANGERMANN, GERHARD, DE

[72] BITTERWOLF, KLAUS, DE

[72] BRUNNER, THOMAS, DE

[72] DREINER, MICHAEL, DE

[72] ECK, CHRISTIAN, DE

[72] FORSTER, JAN, DE

[72] GOSS, SEBASTIAN, DE

[72] MOSEBACH, JENS, DE

[72] RAUPACH, ULRICH, DE

[72] SESSNER, RAINER, DE

[73] LEONI KABEL GMBH, DE

[85] 2016-08-26

[86] 2015-02-27 (PCT/EP2015/054181)

[87] (WO2015/128483)

[30] DE (10 2014 203 773.5) 2014-02-28

[11] **2,940,877**
[13] C

[51] **Int.Cl. H05B 6/10 (2006.01) E21B 37/00 (2006.01) E21B 43/24 (2006.01) H02G 1/08 (2006.01) H01B 7/02 (2006.01)**

[25] EN

[54] **CABLE, IN PARTICULAR INDUCTION CABLE, METHOD FOR LAYING SUCH A CABLE AND LAYING AID**

[54] **CABLE, EN PARTICULIER CABLE A INDUCTION, PROCEDE SERVANT A POSER UN CABLE DE CE TYPE ET DISPOSITIF AUXILIAIRE DE POSE**

[72] ANGERMANN, GERHARD, DE

[72] BITTERWOLF, KLAUS, DE

[72] BRUNNER, THOMAS, DE

[72] DREINER, MICHAEL, DE

[72] ECK, CHRISTIAN, DE

[72] FORSTER, JAN, DE

[72] GOSS, SEBASTIAN, DE

[72] MOSEBACH, JENS, DE

[72] RAUPACH, ULRICH, DE

[72] SESSNER, RAINER, DE

[73] LEONI KABEL GMBH, DE

[85] 2016-08-26

[86] 2015-02-27 (PCT/EP2015/054190)

[87] (WO2015/128487)

[30] DE (10 2014 203 777.8) 2014-02-28

[11] **2,940,884**
[13] C

[51] **Int.Cl. F24F 13/08 (2006.01) E03D 9/04 (2006.01) F16L 43/00 (2006.01) F24F 7/06 (2006.01) F24F 13/02 (2006.01)**

[25] EN

[54] **TERMINATION FITTING FOR A VENT TUBE**

[54] **RACCORD DE TERMINAISON POUR TUBE D'EVACUATION**

[72] NAGAN, JOSEPH P., US

[73] SILVER ANGELS, LLC, US

[86] (2940884)

[87] (2940884)

[22] 2016-09-02

[30] US (14997326) 2016-01-15

[11] **2,940,955**
[13] C

[51] **Int.Cl. C08G 81/00 (2006.01) A61L 27/18 (2006.01)**

[25] EN

[54] **AMPHIPHILIC DEGRADABLE POLYMERS FOR IMMOBILIZATION AND SUSTAINED DELIVERY OF BIOMOLECULES**

[54] **POLYMERES AMPHIPHILES DEGRADABLES POUR IMMOBILISATION ET ADMINISTRATION PROLONGEE DE BIOMOLECULES**

[72] SONG, JIE, US

[72] ZHANG, JING, US

[73] UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL, US

[85] 2016-08-26

[86] 2015-02-26 (PCT/US2015/017640)

[87] (WO2015/130877)

[30] US (61/945,117) 2014-02-26

[11] **2,941,792**
[13] C

[51] **Int.Cl. E05F 5/12 (2006.01)**

[25] EN

[54] **DOUBLE DOOR WITH COORDINATOR BRAKE**

[54] **PORTE A DEUX BATTANTS COMPRENANT UN FREIN DE COORDINATION**

[72] SODERQVIST, SVEN-GUNNAR, SE

[73] ASSA ABLOY ENTRANCE SYSTEMS AB, SE

[85] 2016-09-07

[86] 2015-03-25 (PCT/EP2015/056329)

[87] (WO2015/150174)

[30] SE (1450380-9) 2014-03-31

[11] **2,941,795**
[13] C

[51] **Int.Cl. E05F 5/12 (2006.01)**

[25] EN

[54] **DOUBLE DOOR WITH INNER BRAKE**

[54] **PORTE A DEUX BATTANTS COMPRENANT UN FREIN INTERNE**

[72] SODERQVIST, SVEN-GUNNAR, SE

[73] ASSA ABLOY ENTRANCE SYSTEMS AB, SE

[85] 2016-09-07

[86] 2015-03-25 (PCT/EP2015/056343)

[87] (WO2015/150177)

[30] SE (1450381-7) 2014-03-31

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[11] **2,941,898**
[13] C

[51] **Int.Cl. C21D 1/09 (2006.01) B23K 26/082 (2014.01) C21D 9/30 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR LASER HARDENING OF A SURFACE OF A WORKPIECE**

[54] **PROCEDE ET SYSTEME PERMETTANT UN DURCISSEMENT LASER D'UNE SURFACE D'UNE PIECE A USINER**

[72] DOMINGUEZ, JESUS, ES
[72] SANCHO, PAULA, ES
[72] BILBAO, OLATZ, ES
[73] ETXE-TAR, S.A., ES
[85] 2016-09-08
[86] 2015-02-11 (PCT/EP2015/052879)
[87] (WO2015/135715)
[30] EP (14382086.8) 2014-03-11

[11] **2,942,968**
[13] C

[51] **Int.Cl. C07D 213/26 (2006.01) A61K 31/41 (2006.01) A61K 31/4439 (2006.01) A61P 31/04 (2006.01) C07D 257/04 (2006.01) C07D 401/06 (2006.01)**

[25] EN

[54] **ANTIFUNGAL COMPOUND PROCESS**

[54] **PROCEDE DE PREPARATION D'UN COMPOSE ANTIFONGIQUE**

[72] HOEKSTRA, WILLIAM J., US
[72] YATES, CHRISTOPHER M., US
[72] BEHNKE, MARK, US
[72] ALIMARDANOV, ASAF, US
[72] DAVID, SCOTT A., US
[72] FRY, DOUGLAS FRANKLIN, US
[73] MYCOVIA PHARMACEUTICALS, INC., US

[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH & HUMAN SERVICES, US

[85] 2016-09-15
[86] 2015-03-19 (PCT/US2015/021491)
[87] (WO2015/143172)
[30] US (61/955,615) 2014-03-19

[11] **2,943,368**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/50 (2006.01) A61K 31/506 (2006.01) A61K 47/10 (2017.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR ENHANCING THE TOPICAL APPLICATION OF A BASIC BENEFIT AGENT**

[54] **COMPOSITIONS ET METHODES POUR AMELIORER L'APPLICATION TOPIQUE D'UN AGENT BENEFIQUE BASIQUE**

[72] SUN, YING, US
[72] WU, JEFFREY M., US
[72] FASSIH, ALI, US
[73] JOHNSON & JOHNSON CONSUMER INC., US

[85] 2016-09-20
[86] 2015-03-10 (PCT/US2015/019589)
[87] (WO2015/153074)
[30] US (14/230,565) 2014-03-31

[11] **2,943,673**
[13] C

[51] **Int.Cl. C21D 1/26 (2006.01) B21D 26/047 (2011.01) B21D 26/049 (2011.01) B21D 51/18 (2006.01) B21D 51/38 (2006.01) B65D 1/14 (2006.01)**

[25] EN

[54] **METHOD FOR BLOW MOLDING METAL CONTAINERS**

[54] **PROCEDE DE MOULAGE PAR SOUFFLAGE DE RECIPIENTS METALLIQUES**

[72] PILON, BETTY JEAN, CA
[72] STATHOPOULOS, PETER, CA
[72] GEORGIEV, GEORGI (DECEASED), CA

[72] PILON, BENJAMIN JOSEPH, CA
[73] MONTEBELLO TECHNOLOGY SERVICES LTD., CA

[73] 1949467 ONTARIO INC., CA

[85] 2016-09-23
[86] 2015-03-24 (PCT/CA2015/000180)
[87] (WO2015/143540)
[30] US (61/970,103) 2014-03-25

[11] **2,944,261**
[13] C

[51] **Int.Cl. C10M 163/00 (2006.01) C10M 133/06 (2006.01) C10M 133/16 (2006.01) C10M 133/44 (2006.01) C10M 159/20 (2006.01)**

[25] EN

[54] **ADDITIVE CONCENTRATES FOR THE FORMULATION OF LUBRICATING OIL COMPOSITIONS**

[54] **CONCENTRES ADDITIFS DESTINES A LA FORMULATION DE COMPOSITIONS D'HUILES LUBRIFIANTES**

[72] CLARKE, DEAN B., US
[72] OBEROI, SONIA, US
[72] EMERT, JACOB, US
[72] YOUNG, ANNE W., US
[73] INFINEUM INTERNATIONAL LIMITED, GB

[86] (2944261)
[87] (2944261)
[22] 2016-10-05
[30] US (14/874,688) 2015-10-05

[11] **2,944,310**
[13] C

[51] **Int.Cl. A01K 41/02 (2006.01) A01K 41/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE SUITABLE FOR INCUBATING AVIAN EGGS**

[54] **PROCEDE ET DISPOSITIF APPROPRIE POUR L'INCUBATION D'OEUF AVIAIRES**

[72] VISHNIA, DAVID, IL
[73] VISHNIA, DAVID, IL

[85] 2016-09-28
[86] 2015-04-14 (PCT/IB2015/052699)
[87] (WO2015/159210)
[30] GB (1406641.9) 2014-04-14

[11] **2,944,524**
[13] C

[51] **Int.Cl. B23Q 1/62 (2006.01)**

[25] EN

[54] **MACHINE TOOL**

[54] **MACHINE-OUTIL**

[72] IBARRA, JORGE, ES
[72] IRIBARREN, IBON, ES
[72] HEALY, ROBERT JOSEPH, ES
[73] ETXE-TAR, S.A., ES

[85] 2016-09-30
[86] 2015-04-01 (PCT/EP2015/057139)
[87] (WO2015/155083)
[30] EP (14382135.3) 2014-04-08

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[11] **2,944,810**

[13] C

- [51] **Int.Cl. C10M 159/20 (2006.01)**
[25] EN
[54] **REDUCING THE OCCURRENCE OF LOW SPEED PRE-IGNITION (LSPI) IN SPARK-IGNITED INTERNAL COMBUSTIONS ENGINES**
[54] **REDUCTION DES INSTANCES DE PREDEMARRAGE BASSE VITESSE (LSPI) DANS LES MOTEURS A COMBUSTION INTERNE A BOUGIE**
[72] CANT, ALASTAIR ALEXANDER, GB
[72] MARSH, ADAM PAUL, GB
[72] SHAW, ROBERT WILLIAM, GB
[72] WILKINSON, THOMAS DANIEL, GB
[73] INFINEUM INTERNATIONAL LIMITED, GB
[86] (2944810)
[87] (2944810)
[22] 2016-10-07
[30] EP (15188998.7) 2015-10-08

[11] **2,944,963**

[13] C

- [51] **Int.Cl. A01C 1/06 (2006.01)**
[25] EN
[54] **SEED MATERIAL PELLETS D'ENSEMENCEMENT**
[72] KRECISZ, ADAM, DE
[73] INSTANT SEED GMBH, DE
[85] 2016-10-05
[86] 2015-04-07 (PCT/EP2015/000732)
[87] (WO2015/154868)
[30] DE (10 2014 005 451.9) 2014-04-07

[11] **2,946,099**

[13] C

- [51] **Int.Cl. G09G 3/34 (2006.01) G02F 1/167 (2019.01)**
[25] EN
[54] **METHODS FOR DRIVING ELECTRO-OPTIC DISPLAYS**
[54] **PROCEDES DE COMMANDE D'AFFICHAGES ELECTRO-OPTIQUES**
[72] APREA, MATTHEW J., US
[72] AMUNDSON, KARL RAYMOND, US
[72] CROUNSE, KENNETH R., US
[72] HARRINGTON, DEMETRIOUS MARK, US
[72] LIN, JASON, US
[72] SJODIN, THEODORE A., US
[72] SU, CHIA-CHEN, US
[73] E INK CORPORATION, US
[86] (2946099)
[87] (2946099)
[22] 2013-01-31
[62] 2,863,425
[30] US (61/593,361) 2012-02-01

[11] **2,946,661**

[13] C

- [51] **Int.Cl. A47J 29/02 (2006.01) A47J 29/06 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR COOKING AT LEAST ONE EGG WITH AN EGGSHELL**
[54] **APPAREIL ET METHODE POUR CUISINER AU MOINS UN OEUF AVEC SA COQUILLE**
[72] VAN SCHAİK, SANDER-WILLEM, NL
[72] HANSEN, EDWIN MATHEUS JOZEF, NL
[73] EGGCITING PRODUCTS B.V., NL
[85] 2016-10-21
[86] 2015-04-14 (PCT/EP2015/058059)
[87] (WO2015/162034)
[30] NL (2012689) 2014-04-24
[30] NL (2014115) 2015-01-13

[11] **2,946,704**

[13] C

- [51] **Int.Cl. G02B 17/00 (2006.01) G02B 27/01 (2006.01) G02B 27/30 (2006.01)**
[25] EN
[54] **COMPACT HEAD-MOUNTED DISPLAY SYSTEM**
[54] **SYSTEME DE VISIOCASQUE COMPACT**
[72] AMITAI, YAAKOV, IL
[73] LUMUS LTD., IL
[85] 2016-10-21
[86] 2015-04-21 (PCT/IL2015/050422)
[87] (WO2015/162611)
[30] IL (232197) 2014-04-23

[11] **2,946,861**

[13] C

- [51] **Int.Cl. A61B 17/06 (2006.01) A61B 17/04 (2006.01)**
[25] EN
[54] **NEEDLE-SUTURE COMBINATION**
[54] **COMBINAISON D'AIGUILLE-FIL DE SUTURE**
[72] VRANCKEN PEETERS, MARK-PAUL FRANCISCUS MARIA, NL
[73] MELLON MEDICAL B.V., NL
[85] 2016-10-24
[86] 2015-04-29 (PCT/NL2015/050288)
[87] (WO2015/167331)
[30] NL (2012735) 2014-05-01

[11] **2,947,336**

[13] C

- [51] **Int.Cl. B02C 13/28 (2006.01)**
[25] EN
[54] **CRUSHING MACHINE WITH STATIONARY ANVIL AND ROTATING HAMMER IRONS**
[54] **BROYEUSE MUNIE D'UNE ENCLUME FIXE ET DE MARTEAUX ROTATIFS**
[72] KOSLOW, ALEXANDER, DE
[73] AKAI GMBH & CO. KG, DE
[85] 2016-10-28
[86] 2015-04-23 (PCT/DE2015/000198)
[87] (WO2015/165433)
[30] DE (10 2014 006 354.2) 2014-04-30
[30] DE (10 2014 016 322.9) 2014-10-28

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[11] **2,947,800**
[13] C

[51] **Int.Cl. C11D 1/00 (2006.01) C11D 1/72 (2006.01) C11D 1/75 (2006.01) C11D 3/43 (2006.01)**

[25] EN
[54] **STAIN REMOVING SOLUTION**
[54] **SOLUTION D'ELIMINATION DE TACHES**

[72] GAUDREAU, ROSEMARIE, US
[73] JELMAR, LLC, US
[86] (2947800)
[87] (2947800)
[22] 2013-05-16
[62] 2,816,064
[30] US (13/694,897) 2013-01-16

[11] **2,948,401**
[13] C

[51] **Int.Cl. C22B 3/08 (2006.01) C22B 59/00 (2006.01)**

[25] EN
[54] **SYSTEM AND PROCESS FOR SELECTIVE RARE EARTH EXTRACTION WITH SULFUR RECOVERY**
[54] **SYSTEME ET PROCEDE POUR L'EXTRACTION SELECTIVE DE TERRES RARES AVEC RECUPERATION DU SOUFRE**

[72] TEIXEIRA, LEANDRO AUGUSTO VIANA, BR
[72] SILVA, RUBERLAN GOMES, BR
[73] VALE S.A., BR
[85] 2016-11-08
[86] 2015-05-13 (PCT/BR2015/000068)
[87] (WO2015/172217)
[30] US (61/993,932) 2014-05-15
[30] US (14/708,131) 2015-05-08

[11] **2,949,597**
[13] C

[51] **Int.Cl. F01D 5/08 (2006.01) F01D 11/00 (2006.01) F01D 11/08 (2006.01)**

[25] FR
[54] **TURBINE ROTOR FOR A GAS-TURBINE ENGINE**
[54] **ROTOR DE TURBINE POUR UN MOTEUR A TURBINE A GAZ**

[72] SICARD, JOSSELIN LUC FLORENT, FR
[72] PELLATON, BERTRAND, FR
[72] BARRET, HELENE MARIE, FR
[72] SILET, BENOIT GUILLAUME, FR
[72] HOULET, ANNE-FLORE KARINE, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2016-11-18
[86] 2015-05-07 (PCT/FR2015/051211)
[87] (WO2015/177429)
[30] FR (1454500) 2014-05-20

[11] **2,950,336**
[13] C

[51] **Int.Cl. B32B 27/04 (2006.01) B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 27/18 (2006.01) B32B 27/30 (2006.01) B32B 37/10 (2006.01)**

[25] EN
[54] **THREE-LAYER UV PROTECTIVE FILM FOR DECORATIVE LAMINATED SHEETS (HPL)**
[54] **FILM DE PROTECTION ANTI-UV A TROIS COUCHES POUR PANNEAUX DECORATIFS STRATIFIES (HPL)**

[72] PARUSEL, MARKUS, DE
[72] ENDERS, MICHAEL, DE
[72] GUENANTEN, CLAUDE, DE
[72] GOLDER, MICHAEL, FR
[73] ROHM GMBH, DE
[85] 2016-11-25
[86] 2015-05-19 (PCT/EP2015/060929)
[87] (WO2015/180995)
[30] DE (102014210007.0) 2014-05-26

[11] **2,951,437**
[13] C

[51] **Int.Cl. C08K 5/29 (2006.01) B32B 27/18 (2006.01) C08K 3/22 (2006.01) C08K 5/25 (2006.01)**

[25] EN
[54] **THERMAL INTERFACE MATERIAL WITH ION SCAVENGER**
[54] **MATERIAU D'INTERFACE THERMIQUE AVEC AGENT PIEGEUR D'IONS**

[72] LIU, YA QUN, US
[72] ZENG, LIANG, US
[72] WANG, HUI, US
[72] ZHANG, BRIGHT, US
[72] HUANG, HONG MIN, US
[73] HONEYWELL INTERNATIONAL INC., US
[85] 2016-12-07
[86] 2014-07-07 (PCT/CN2014/081724)
[87] (WO2016/004565)

[11] **2,951,733**
[13] C

[51] **Int.Cl. E21F 17/103 (2006.01) A62C 2/06 (2006.01) E06B 9/15 (2006.01) E06B 9/17 (2006.01) E21F 11/00 (2006.01) E21F 17/12 (2006.01)**

[25] EN
[54] **NOVEL TUNNEL FIREPROOF ROLLER SHUTTER**
[54] **VOLET ROULANT COUPE-FEU A TUNNEL D'UN NOUVEAU TYPE**

[72] LI, CONGLIN, CN
[73] LI, CONGLIN, CN
[85] 2016-12-09
[86] 2015-06-05 (PCT/CN2015/080846)
[87] (WO2015/192719)
[30] CN (201410275586.2) 2014-06-19

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[11] **2,952,586**
[13] C

[51] **Int.Cl. F02B 33/44 (2006.01) F02B 33/06 (2006.01) F02B 33/22 (2006.01) F02B 41/06 (2006.01) F02B 41/10 (2006.01)**

[25] EN

[54] **FOUR-CYCLE INTERNAL COMBUSTION ENGINE WITH PRE-STAGE COOLED COMPRESSION**

[54] **MOTEUR A COMBUSTION INTERNE A QUATRE TEMPS AVEC COMPRESSION PRE-REFROIDIE A ETAGES**

[72] KRISTANI, FILIP, US
[73] KRISTANI, FILIP, US
[85] 2016-12-15
[86] 2015-02-26 (PCT/US2015/017770)
[87] (WO2015/134274)
[30] US (14/200,202) 2014-03-07
[30] US (14/279,580) 2014-05-16

[11] **2,952,963**
[13] C

[51] **Int.Cl. B23B 29/04 (2006.01) B23B 27/00 (2006.01) B23B 27/08 (2006.01) B23B 29/12 (2006.01) F16F 7/108 (2006.01)**

[25] EN

[54] **CUTTING TOOL HOLDER WITH VIBRATION DAMPING WEIGHT ASSEMBLY**

[54] **PORTE-OUTIL DE COUPE AVEC ENSEMBLE DE POIDS D'AMORTISSEMENT DES VIBRATIONS**

[72] HECHT, GIL, IL
[73] ISCAR LTD., IL
[85] 2016-12-19
[86] 2015-07-21 (PCT/IL2015/050752)
[87] (WO2016/024266)
[30] US (62/036,264) 2014-08-12

[11] **2,953,089**
[13] C

[51] **Int.Cl. C08L 77/02 (2006.01) C08L 23/26 (2006.01) C08L 77/06 (2006.01) F17C 1/16 (2006.01)**

[25] EN

[54] **POLYAMIDE RESIN COMPOSITION FOR MOLDED ARTICLE EXPOSED TO HIGH-PRESSURE HYDROGEN AND MOLDED ARTICLE MADE OF THE SAME**

[54] **COMPOSITION DE RESINE POLYAMIDE POUR ARTICLE MOULE DESTINE A ETRE EN CONTACT AVEC DE L'HYDROGENE HAUTE PRESSION, ET ARTICLE MOULE OBTENU A PARTIR DE CELLE-CI**

[72] SATO, DAISUKE, JP
[72] OCHIAI, SHINICHIRO, JP
[72] KOBAYASHI, SADAYUKI, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2016-12-20
[86] 2015-10-26 (PCT/JP2015/080093)
[87] (WO2016/136025)
[30] JP (2015-037934) 2015-02-27

[11] **2,953,235**
[13] C

[51] **Int.Cl. A61B 17/43 (2006.01) A61D 19/02 (2006.01)**

[25] EN

[54] **IMPROVED DEVICE FOR THE ATRAUMATIC TRANSFER OF A MATERIAL OR SUBSTANCE WITH A REPRODUCTIVE, THERAPEUTIC OR DIAGNOSTIC PURPOSE INTO FEMALE MAMMALS**

[54] **DISPOSITIF PERFECTIONNE DE TRANSFERT ATRAUMATIQUE DE MATERIEL OU SUBSTANCE A BUT REPRODUCTIF, THERAPEUTIQUE OU DIAGNOSTIQUE DANS DES MAMMIFERES FEMELLES**

[72] DECHERF, AGATHE, FR
[72] DREVILLON, PIERRICK, FR
[73] ELEXINN, FR
[85] 2016-12-02
[86] 2015-06-03 (PCT/FR2015/051474)
[87] (WO2015/185863)
[30] FR (1455079) 2014-06-04

[11] **2,953,816**
[13] C

[51] **Int.Cl. A61K 38/20 (2006.01) A61K 39/385 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **IL-15-BASED MOLECULES AND METHODS OF USE THEREOF**

[54] **MOLECULES A BASE DE IL-15 ET LEURS PROCEDES D'UTILISATION**

[72] LIU, BAI, US
[72] RHODE, PETER, US
[72] XU, WENXIN, US
[72] WONG, HING C., US
[73] ALTOR BIOSCIENCE CORPORATION, US
[85] 2016-12-28
[86] 2015-06-30 (PCT/US2015/038587)
[87] (WO2016/004060)
[30] US (62/018,899) 2014-06-30

[11] **2,954,050**
[13] C

[51] **Int.Cl. F28D 7/12 (2006.01) F28D 7/06 (2006.01) F28D 7/16 (2006.01) F28F 9/00 (2006.01) F28F 9/013 (2006.01) F28F 9/22 (2006.01)**

[25] EN

[54] **SHELL AND TUBE HEAT EXCHANGER**

[54] **ECHANGEUR DE CHALEUR A CALANDRE**

[72] RIZZI, ENRICO, IT
[73] CASALE SA, CH
[85] 2016-12-30
[86] 2015-06-19 (PCT/EP2015/063867)
[87] (WO2016/008675)
[30] EP (14177210.3) 2014-07-16

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[11] **2,954,385**
[13] C

[51] **Int.Cl. A61L 29/16 (2006.01) A61L 29/08 (2006.01) A61L 29/14 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COATING FORMING KINK RESISTANT FEATURE ON A VASCULAR ACCESS DEVICE**
[54] **REVETEMENT ANTIMICROBIEN FORMANT UN ELEMENT RESISTANT AU VRILLAGE SUR UN DISPOSITIF D'ACCES VASCULAIRE**
[72] BURKHOLZ, JONATHAN KARL, US
[72] SHEVGOOR, SIDDARTH K., US
[72] ADAMS, TONY FARNSWORTH, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2017-01-05
[86] 2015-07-06 (PCT/US2015/039261)
[87] (WO2016/007439)
[30] US (14/326,036) 2014-07-08

[11] **2,954,743**
[13] C

[51] **Int.Cl. C12N 5/077 (2010.01) C12N 1/00 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **CARDIAC CELL CULTURE MATERIAL**
[54] **MATERIAU DE CULTURE DE CELLULES CARDIAQUES**
[72] IWAMIYA, TAKAHIRO, JP
[72] MATSUURA, KATSUHISA, JP
[73] METCELA INC., JP
[85] 2017-01-10
[86] 2015-01-05 (PCT/JP2015/050028)
[87] (WO2016/006262)
[30] JP (2014-142804) 2014-07-11

[11] **2,955,523**
[13] C

[51] **Int.Cl. A43B 7/06 (2006.01)**
[25] EN
[54] **FOOTWEAR WITH FORCED AIR VENTING**
[54] **CHAUSSURE DOTEE D'AERATION FORCEE**
[72] AUDET, JEAN-PIERRE, CA
[73] CODET INC., CA
[86] (2955523)
[87] (2955523)
[22] 2017-01-20
[30] US (15/411,590) 2017-01-20
[30] US (62/281,342) 2016-01-21

[11] **2,956,882**
[13] C

[51] **Int.Cl. F01D 25/24 (2006.01) F01D 9/02 (2006.01) F01D 11/00 (2006.01) F01D 11/12 (2006.01)**
[25] FR
[54] **TURBOMACHINE MODULE**
[54] **MODULE DE TURBOMACHINE**
[72] LOISEAU, CYRIL, FR
[72] GENDRAUD, ALAIN DOMINIQUE, FR
[72] PRESTEL, SEBASTIEN JEAN LAURENT, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-01-31
[86] 2015-08-04 (PCT/FR2015/052151)
[87] (WO2016/024060)
[30] FR (1457829) 2014-08-14

[11] **2,958,277**
[13] C

[51] **Int.Cl. B02C 19/08 (2006.01) A61J 3/02 (2006.01) A61J 7/00 (2006.01)**
[25] EN
[54] **MEDICATION COMMINUTION AND DELIVERY CUP**
[54] **COUPELLE DE BROYAGE ET D'ADMINISTRATION DE MEDICAMENTS**
[72] DOMINY, FREDRICK MAROON, US
[72] ENNS, VALERIE JILL, CA
[72] ENNS, JOHN, CA
[72] FADER, TIMA, CA
[72] FADER, AARON EDWARD, CA
[72] REYNOLDS, TRENT GEORGE, CA
[73] SERRANO MEDICAL SOLUTIONS INC., CA
[85] 2017-02-16
[86] 2015-09-17 (PCT/CA2015/050911)
[87] (WO2016/041083)
[30] US (14/490,604) 2014-09-18

[11] **2,959,147**
[13] C

[51] **Int.Cl. D04H 1/50 (2012.01)**
[25] EN
[54] **STRETCHABLE NON-WOVEN FABRIC HAVING EXCELLENT REPETITION DURABILITY**
[54] **NON-TISSE EXTENSIBLE AYANT UNE EXCELLENTE DURABILITE DE REPETITION**
[72] KOIZUMI, SATOSHI, JP
[72] KIYOOKA, SUMITO, JP
[72] ARAIDA, YASUROU, JP
[73] KURARAY CO., LTD., JP
[85] 2017-02-23
[86] 2015-08-25 (PCT/JP2015/073874)
[87] (WO2016/031818)
[30] JP (2014-172976) 2014-08-27

[11] **2,959,469**
[13] C

[51] **Int.Cl. B32B 15/20 (2006.01) E05D 3/02 (2006.01) F16C 33/20 (2006.01)**
[25] EN
[54] **CORROSION RESISTANT BUSHING**
[54] **MANCHON RESISTANT A LA CORROSION**
[72] NEUMARK, RALF, DE
[72] JAEGER, HANS-JUERGEN, DE
[72] ANSGAR, HAEGER M., DE
[73] SAINT-GOBAIN PERFORMANCE PLASTICS PAMPUS GMBH, DE
[85] 2017-02-27
[86] 2015-09-02 (PCT/IB2015/001925)
[87] (WO2016/034943)
[30] US (62/044,816) 2014-09-02

[11] **2,959,614**
[13] C

[51] **Int.Cl. E02F 9/00 (2006.01) F16B 17/00 (2006.01) F16B 35/00 (2006.01)**
[25] EN
[54] **HAMMERLESS PIN ASSEMBLY**
[54] **ENSEMBLE GOUPILLE SANS MARTEAU**
[72] HEAPHY, PAUL, AU
[72] DARE, MICHAEL, AU
[72] QIAN, JUNBO, AU
[73] ESCO GROUP LLC, US
[85] 2017-02-28
[86] 2015-08-28 (PCT/US2015/047382)
[87] (WO2016/033428)
[30] US (62/043,963) 2014-08-29

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[11] **2,959,862**
[13] C

[51] **Int.Cl. G10L 15/25 (2013.01) G06T 13/40 (2011.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ANIMATED LIP SYNCHRONIZATION**
[54] **SYSTEME ET METHODE DE SYNCHRONISATION DE LEVRES ANIMEE**
[72] EDWARDS, PIF, CA
[72] LANDRETH, CHRIS, CA
[72] FIUME, EUGENE, CA
[72] SINGH, KARAN, CA
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[86] (2959862)
[87] (2959862)
[22] 2017-03-03

[11] **2,961,292**
[13] C

[51] **Int.Cl. G10L 19/008 (2013.01)**
[25] EN
[54] **SIGNALING CHANNELS FOR SCALABLE CODING OF HIGHER ORDER AMBISONIC AUDIO DATA**
[54] **SIGNALISATION DE CANAUX POUR LE CODAGE SCALABLE DE DONNEES AUDIO AMBIOPHONIQUES D'ORDRE SUPERIEUR**
[72] KIM, MOO YOUNG, US
[72] PETERS, NILS GUNTHER, US
[72] SEN, DIPANJAN, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-03-13
[86] 2015-10-09 (PCT/US2015/054951)
[87] (WO2016/057926)
[30] US (62/062,584) 2014-10-10
[30] US (62/084,461) 2014-11-25
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[30] US (62/088,445) 2014-12-05
[30] US (62/145,960) 2015-04-10
[30] US (62/175,185) 2015-06-12
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[54] **SIGNALING LAYERS FOR SCALABLE CODING OF HIGHER ORDER AMBISONIC AUDIO DATA**
[54] **COUCHES DE SIGNALISATION POUR LE CODAGE ECHELONNABLE DE DONNEES AUDIO D'AMBIOPHONIE D'ORDRE SUPERIEUR**
[72] KIM, MOO YOUNG, US
[72] PETERS, NILS GUNTHER, US
[72] SEN, DIPANJAN, US
[73] QUALCOMM INCORPORATED, US
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[30] US (62/088,445) 2014-12-05
[30] US (62/145,960) 2015-04-10
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[54] **PARAMETER LOADER FOR ULTRASOUND PROBE AND RELATED APPARATUS AND METHODS**
[54] **CHARGEUR DE PARAMETRE POUR SONDE A ULTRASON, ET APPAREIL ET PROCEDES ASSOCIES**
[72] RALSTON, TYLER S., US
[72] CASPER, ANDREW J., US
[72] SANCHEZ, NEVADA J., US
[73] BUTTERFLY NETWORK, INC., US
[85] 2017-03-27
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[54] **ORIFICE PLATE BEARING LUBRICATION SYSTEM**
[54] **SYSTEME DE LUBRIFICATION DE PALIER DE PLAQUE A ORIFICE**
[72] NELSON, ANDREW MICHAEL, US
[72] CAMPBELL, MICHAEL DAVID, US
[72] PETERSON, JOHNATHAN EDWARD, US
[73] BAKER HUGHES ESP, INC., US
[85] 2017-04-03
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[25] EN
[54] **METHOD AND SYSTEM FOR MANAGING HARVESTED ENERGY IN AN ACCESS CONTROL SYSTEM**
[54] **PROCEDE ET SYSTEME DE GESTION D'ENERGIE RECUPEREE DANS UN SYSTEME DE CONTROLE D'ACCES**
[72] BRYLA, MARK, US
[73] SARGENT MANUFACTURING COMPANY, US
[85] 2017-04-07
[86] 2015-10-30 (PCT/US2015/058259)
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[25] EN
[54] **RIG MAT WITH REPLACEABLE DECK INSERTS**
[54] **PLATE-FORME MODULAIRE DOTE D'INSERTS DE PONT REMPLACABLES**
[72] FORBES, DEAN, CA
[73] FORBES, DEAN, CA
[85] 2017-04-10
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[54] **VACUUM PANEL FOR NON-ROUND CONTAINERS**
[54] **PANNEAU FORME SOUS VIDE DESTINE A DES RECIPIENTS NON RONDS**
[72] STELZER, JAMES, US
[72] JOSHI, ROHIT V., US
[72] ZENG, GUIZHANG, US
[72] GANNON, DWAYNE, US
[73] AMCOR RIGID PLASTICS USA, LLC, US
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[54] **OBTAINING TRUE DIFFUSIVITY CONSTANT**
[54] **OBTENTION DE LA CONSTANCE DE DIFFUSIVITE EXACTE**
[72] OTTER, MICHAEL, US
[72] STEVENS, BENJAMIN, US
[72] BAUER, DANIEL, US
[73] VENTANA MEDICAL SYSTEMS, INC., US
[85] 2017-04-21
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[54] **PROTECTIVE COATING COMPOSITION FOR MOLTEN ALUMINUM AND ALKALI METAL ENVIRONMENTS AND METHOD OF PROVIDING SAME**
[54] **COMPOSITION DE REVETEMENT PROTECTEUR DESTINEE A DES ENVIRONNEMENTS D'ALUMINIUM FONDU ET DE METAUX ALCALINS ET METHODE DE FOURNITURE ASSOCIEE**
[72] SOOFI, MADJID, US
[72] BINZ, LARA, US
[72] ANDERSON, MICHAEL W., US
[73] MAGNECO/METREL, INC., US
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[13] C

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[54] **METERING APPARATUS**
[54] **DISPOSITIF DE DOSAGE**
[72] GUELLER, ROLF, CH
[72] SCHNEIDER, MICHAEL, CH
[72] THALER, THOMAS, CH
[72] SCHINDLER, MARKUS, CH
[73] CHEMSPEED TECHNOLOGIES AG, CH
[85] 2017-05-10
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[25] EN
[54] **COMPOSITIONS, DEVICES, AND METHODS OF IBS SENSITIVITY TESTING**
[54] **COMPOSITIONS, DISPOSITIFS ET PROCEDES DE TEST DE SENSIBILITE DU SII**
[72] LADERMAN, ELISABETH, US
[72] IRANI-COHEN, ZACKARY, US
[73] BIOMERICA, INC., US
[85] 2017-05-12
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[54] **SCAFFOLDING ARRANGEMENT**
[54] **AGENCEMENT D'ECHAFAUDAGE**
[72] SILTALA, TIMO, FI
[72] HYVONEN, ANTTI, FI
[73] FAST BEAM OY, FI
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[54] **EXTERIOR-MATERIAL SECURING MEMBER AND BUILDING EXTERIOR STRUCTURE**
[54] **ELEMENT DE FIXATION DE MATERIAU EXTERIEUR ET STRUCTURE EXTERIEURE DE BATIMENT**
[72] SUZUKI, KENJI, JP
[73] NICHIIHA CORPORATION, JP
[86] (2969434)
[87] (2969434)
[22] 2017-06-02
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[54] **HIGH EFFICIENCY, SMALL VOLUME NUCLEIC ACID SYNTHESIS**

[54] **SYNTHESE HAUTEMENT EFFICACE DE PETITS VOLUMES D'ACIDES NUCLEIQUES**

[72] POEHMERER, THOMAS, DE

[72] KUHN, PHILLIP, DE

[72] NOTKA, FRANK, DE

[72] ZEIDLER, ANDREAS, DE

[72] HEIL, KORBINIAN, DE

[72] TREFZER, AXEL, DE

[72] FONNUM, GEIR, NO

[72] KATZEN, FEDERICO, US

[72] ANDERSSON, KRISTIAN, SE

[72] LIANG, XIQUAN, US

[73] LIFE TECHNOLOGIES CORPORATION, US

[73] THERMO FISHER SCIENTIFIC GENEART GMBH, DE

[73] LIFE TECHNOLOGIES AS, NO

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[54] **CROSS-DOCK MANAGEMENT SYSTEM, METHOD AND APPARATUS**

[54] **SYSTEME, PROCEDE ET APPAREIL DE GESTION DE TRANSBORDEMENT DIRECT**

[72] LIVELY, GARY SHANNON, US

[72] BRADLEY, MARK, US

[72] SULLIVAN, PATRICK, US

[73] INNOVATIVE LOGISTICS, INC., US

[85] 2017-06-15

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[25] EN

[54] **POWER ALLOCATION METHOD AND COMMUNICATIONS DEVICE**

[54] **PROCEDE D'ATTRIBUTION DE PUISSANCE ET DISPOSITIF DE COMMUNICATION**

[72] SUN, WEI, CN

[72] LV, YONGXIA, CN

[72] WEN, RONGHUI, CN

[73] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2017-06-23

[86] 2014-12-23 (PCT/CN2014/094698)

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[13] C

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[54] **SOLID-FUEL COMBUSTION CHAMBER**

[54] **FOYER A COMBUSTIBLE SOLIDE**

[72] PITANCE, GERARD, BE

[73] STUV S.A., BE

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[54] **COOLING MODULE**

[54] **MODULE DE REFRIGERATION**

[72] TAPLEY, JOSEPH, US

[72] KORTH, JAY S., US

[72] ROMERO, RORY MAHLON, US

[72] PLEWA, JAKE, US

[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US

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[87] (2974269)

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[13] C

[51] **Int.Cl. B60B 19/12 (2006.01) B60B 19/00 (2006.01) B60B 33/00 (2006.01)**

[25] EN

[54] **WHEEL FRAME COMPONENT**

[54] **COMPOSANT DE CHASSIS DE ROUE**

[72] MCKINNON, PETER, AU

[73] ROTACASTER WHEEL LIMITED, AU

[85] 2017-08-02

[86] 2016-01-06 (PCT/AU2016/000001)

[87] (WO2016/109867)

[30] AU (2015900018) 2015-01-06

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[25] EN

[54] **AN ISOLATED POPULATION OF CELL CLUSTERS AND USES THEREOF**

[54] **DISPOSITIF A BASE DE COLONNE ET PROCEDE DE PRELEVEMENT DE CELLULES RARES EN FONCTION DE LA TAILLE, ET SES UTILISATIONS**

[72] YING, JACKIE Y., SG

[72] TAN, MIN-HAN, SG

[72] LEE, YOKE SAN DANIEL, SG

[72] CIMA, IGOR, SG

[72] PARK, YEON JOON, SG

[72] PHYO, WAI MIN, SG

[73] AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH, SG

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[25] EN
[54] **METHOD AND DEVICES FOR FRAGMENTING AND/OR WEAKENING OF POURABLE MATERIAL BY MEANS OF HIGH-VOLTAGE DISCHARGES**
[54] **PROCEDE ET DISPOSITIF DE FRAGMENTATION ET/OU D'AFFAIBLISSEMENT D'UN MATERIAU COULANT AU MOYEN D'UNE DECHARGE A HAUTE TENSION**
[72] MULLER-SIEBERT, REINHARD, CH
[72] KOLLY, JOEL, CH
[73] SELFRAG AG, CH
[85] 2017-08-16
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[25] EN
[54] **DRUM CYLINDER UNIT, METHOD FOR ATTACHING COUPLING MEMBER, AND DRUM UNIT**
[54] **UNITE DE CYLINDRE A TAMBOUR, PROCEDE DE FIXATION D'ELEMENT DE COUPLAGE, ET UNITE A TAMBOUR**
[72] KAMOSHIDA, SHIGEMI, JP
[72] KIKUCHI, KEN, JP
[72] MIYAMOTO, JUN, JP
[72] MORI, TOMONORI, JP
[72] ABE, DAISUKE, JP
[73] CANON KABUSHIKI KAISHA, JP
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[72] RAATIKAINEN, JUHA, FI
[73] ABLOY OY, FI
[85] 2017-08-31
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[25] EN
[54] **STIMULATION DEVICE HAVING AN APPENDAGE**
[54] **DISPOSITIF DE STIMULATION DOTE D'UN APPENDICE**
[72] LENKE, MICHAEL, DE
[73] NOVOLUTO GMBH, DE
[85] 2017-09-01
[86] 2015-07-24 (PCT/EP2015/067017)
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[25] EN
[54] **A BINDER COMPOSITION AND A PAINT FORMULATION MADE THEREOF**
[54] **COMPOSITION DE LIANTS ET FORMULATION DE PEINTURE FABRIQUEE A PARTIR DE CETTE DERNIERE**
[72] ZHANG, SHILING, CN
[72] ZUKOWSKI, LUKASZ, AE
[72] WANG, YUJIANG, CN
[72] YUN, DONG, CN
[72] LI, LING, CN
[72] WU, YOUJUN, CN
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] ROHM AND HAAS COMPANY, US
[85] 2017-09-22
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[25] EN
[54] **CONDITION MONITORING METHOD AND APPARATUS FOR HIGH-VOLTAGE AC ELECTRICAL SYSTEMS**
[54] **PROCEDE ET APPAREIL DE CONTROLE D'ETAT POUR SYSTEMES ELECTRIQUES A CA HAUTE-TENSION**
[72] GIUSSANI, RICCARDO, GB
[72] JOURES, STEVE, GB
[72] POLLEY, ALEX, GB
[72] RENFORTH, LEE, GB
[72] SELTZER-GRANT, MALCOLM, GB
[73] HIGH VOLTAGE PARTIAL DISCHARGE LIMITED, GB
[85] 2017-09-29
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[54] **SNARE TRAP**
[54] **PIEGE A COLLET**
[72] GROVER, COREY, CA
[73] GROVER, COREY, CA
[86] (2981534)
[87] (2981534)
[22] 2017-10-05

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[13] C
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[25] EN
[54] **SYNERGISTIC BENZOXABOROLE-CONTAINING ANTI-FUNGICIDAL COMPOSITION**
[54] **COMPOSITION ANTIFONGICIDE CONTENANT DU BENZOXABOROLE**
[72] BENKOVIC, STEPHEN, US
[72] LIU, CHUNYU, US
[73] THE PENN STATE RESEARCH FOUNDATION, US
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[25] EN
[54] **DEVELOPMENT OF A HIGH TEMPERATURE STABLE SCAVENGER FOR REMOVAL OF HYDROGEN SULFIDE**
[54] **DEVELOPPEMENT D'UN FIXATEUR STABLE A HAUTE TEMPERATURE POUR L'ELIMINATION DU SULFURE D'HYDROGENE**
[72] RANA, GEETA, US
[72] GALLARDO III, JULIAN, US
[72] TREVINO, MATTHEW, US
[73] CHAMPIONX USA INC., US
[85] 2017-10-10
[86] 2016-04-21 (PCT/US2016/028534)
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[54] **SCREENING OF NANOPARTICLE PROPERTIES**
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[72] DESMET, CLOE, FR
[72] COLPO, PASCAL, IT
[72] ROSSI, FRANCOIS, NL
[73] THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, BE
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[13] C

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[25] EN
[54] **DATA TRANSMISSION METHOD, AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION DE DONNEES**
[72] MIAO, JINHUA, CN
[72] QUAN, WEI, CN
[72] ZHANG, JIAN, CN
[72] LI, BINGZHAO, CN
[72] YANG, XIAODONG, CN
[72] HU, ZHENXING, CN
[73] HUAWAI TECHNOLOGIES CO., LTD., CN
[85] 2017-11-10
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[11] **2,985,851**
[13] C

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[25] EN
[54] **FERTILIZER PELLETS FORMED BY COMPRESSION OF MICRONIZED SULPHUR**
[54] **GRANULES D'ENGRAIS FORMES PAR LA COMPRESSION DE SOUFRE MICRONISE**
[72] IYER, SATISH, CA
[72] PEDERSEN, ERIC, CA
[72] KNOLL, RICHARD, CA
[72] AJIBOYE, BABASOLA, CA
[73] SULVARIS INC., CA
[85] 2017-11-14
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[13] C

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[25] EN
[54] **A COUPLER**
[54] **DISPOSITIF D'ACCOUPEMENT**
[72] HART, GEROME RANGI, NZ
[72] HART, ISAAC JOHN, NZ
[73] CRAIG MANUFACTURING LTD., CA
[85] 2017-11-17
[86] 2015-08-28 (PCT/NZ2015/050125)
[87] (WO2016/195512)
[30] NZ (708831) 2015-06-04

[11] **2,986,950**
[13] C

- [51] **Int.Cl. H04N 19/50 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS OF ERROR HANDLING FOR VIDEO CODING USING INTRA BLOCK COPY MODE**
[54] **PROCEDE ET APPAREIL DE TRAITEMENT D'ERREURS POUR CODAGE VIDEO UTILISANT UN MODE DE COPIE INTRA-BLOC**
[72] CHUANG, TZU-DER, CN
[72] CHENG, CHIA-YUN, CN
[72] CHOU, HAN-LIANG, CN
[72] CHEN, CHING-YEH, CN
[72] SUN, YU-CHEN, CN
[72] HUANG, YU-WEN, CN
[73] MEDIATEK INC., CN
[85] 2017-11-23
[86] 2016-06-03 (PCT/CN2016/084767)
[87] (WO2016/192677)
[30] US (62/170,267) 2015-06-03

[11] **2,988,829**
[13] C

- [51] **Int.Cl. G06N 10/60 (2022.01) G06N 10/40 (2022.01)**
[25] EN
[54] **QUANTUM PROCESSING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT QUANTIQUE**
[72] LECHNER, WOLFGANG, AT
[72] HAUKE, PHILIPP, AT
[72] ZOLLER, PETER, AT
[73] PARITY QUANTUM COMPUTING GMBH, AT
[85] 2017-12-08
[86] 2016-06-28 (PCT/EP2016/065014)
[87] (WO2017/001404)
[30] EP (15174362.2) 2015-06-29

[11] **2,988,851**
[13] C

- [51] **Int.Cl. E04G 21/22 (2006.01)**
[25] EN
[54] **BRICK LAYERING SYSTEM**
[54] **SYSTEME DE POSE DE BRIQUES**
[72] SLAVINSKI, BENOIT, CA
[72] LEGENDRE, LUDOVIC, CA
[73] SLAB INNOVATION INC., CA
[86] (2988851)
[87] (2988851)
[22] 2017-12-14
[30] CA (2,951,663) 2016-12-14

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[11] **2,989,385**
[13] C

[51] **Int.Cl. B64G 1/64 (2006.01) F16F 7/00 (2006.01) B64G 1/22 (2006.01)**
[25] EN
[54] **LIGHT PASSIVE ATTENUATOR FOR SPACECRAFT**
[54] **ATTENUATEUR PASSIF LEGER POUR AERONEFS SPATIAUX**
[72] LANCHO DONCEL, MIGUEL, ES
[73] AIRBUS DEFENCE AND SPACE, S.A., ES
[85] 2017-12-13
[86] 2015-06-16 (PCT/ES2015/070472)
[87] (WO2016/203067)

[11] **2,989,976**
[13] C

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/68 (2018.01) C40B 40/06 (2006.01)**
[25] EN
[54] **REAGENTS, KITS AND METHODS FOR MOLECULAR BARCODING**
[54] **REACTIFS, KITS ET PROCEDES DE BARCODING MOLECULAIRE**
[72] EDELMAN, LUCAS BRANDON, GB
[73] CS GENETICS LIMITED, GB
[85] 2017-12-18
[86] 2016-06-23 (PCT/GB2016/051883)
[87] (WO2016/207639)
[30] GB (1511050.5) 2015-06-23

[11] **2,990,364**
[13] C

[51] **Int.Cl. G06F 21/57 (2013.01)**
[25] EN
[54] **CYBER THREAT INTELLIGENCE THREAT AND VULNERABILITY ASSESSMENT OF SERVICE SUPPLIER CHAIN**
[54] **EVALUATION DE CYBERMENACE, DE MENACE INTELLIGENTE ET DE VULNERABILITE D'UNE CHAINE DE FOURNISSEUR DE SERVICE**
[72] BRODA, MACIEJ, CA
[72] HERVIEUX, MARC-ANDRE, CA
[72] HABIB, HAKEM, CA
[73] BCE INC., CA
[86] (2990364)
[87] (2990364)
[22] 2017-12-29
[30] US (62/440,124) 2016-12-29

[11] **2,990,619**
[13] C

[51] **Int.Cl. H02J 1/10 (2006.01) G05F 1/66 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **WIDE RANGE POWER COMBINER**
[54] **COMBINEUR DE PUISSANCE A LARGE PLAGE**
[72] IBRAHIM, BOLIS, CA
[72] ZHYHINAS, OLEH, CA
[72] WYSZYNSKI, KAMIL, CA
[73] ARGENTUM ELECTRONICS, INC., CA
[85] 2017-12-21
[86] 2016-08-18 (PCT/IB2016/054938)
[87] (WO2017/029628)
[30] US (62/206,270) 2015-08-18

[11] **2,993,490**
[13] C

[51] **Int.Cl. F21V 5/00 (2018.01) F21V 7/00 (2006.01) G02B 19/00 (2006.01)**
[25] FR
[54] **OPTICAL SYSTEM FOR NON-IMAGING COLLIMATION OF MAXIMUM LIGHT INTENSITY**
[54] **SYSTEME OPTIQUE DE COLLIMATION NON-IMAGEUR D'INTENSITE LUMINEUSE MAXIMALE**
[72] LAURET, JEAN-PIERRE, FR
[73] GAGGIONE SAS, FR
[85] 2018-01-24
[86] 2016-07-27 (PCT/FR2016/051946)
[87] (WO2017/017375)
[30] FR (15/57347) 2015-07-30

[11] **2,994,257**
[13] C

[51] **Int.Cl. H04L 9/12 (2006.01) H04L 12/22 (2006.01)**
[25] EN
[54] **THREAT INTELLIGENCE SYSTEM AND METHOD**
[54] **SYSTEME DE RENSEIGNEMENT PORTANT SUR UNE MENACE ET PROCEDE ASSOCIE**
[72] MURPHY, BRIAN, US
[72] PARTLOW, JOE, US
[73] RELIAQUEST HOLDINGS, LLC, US
[85] 2018-01-30
[86] 2016-07-05 (PCT/US2016/040987)
[87] (WO2017/004619)
[30] US (62/187,922) 2015-07-02

[11] **2,996,358**
[13] C

[51] **Int.Cl. H01H 9/16 (2006.01)**
[25] EN
[54] **VISUAL INDICATOR MODULES FOR USE WITH CONTROL PANELS AND RELATED METHODS**
[54] **MODULES INDICATEURS VISUELS DESTINES A ETRE UTILISES AVEC DES PANNEAUX DE COMMANDE, ET PROCEDES ASSOCIES**
[72] LI, PEI, CN
[72] AMIRTHASAMY, STANLEY FELIX, US
[72] BRAMA, MARWAN, SG
[73] FISHER CONTROLS INTERNATIONAL LLC, US
[85] 2018-02-22
[86] 2015-09-09 (PCT/CN2015/089240)
[87] (WO2017/041245)

[11] **2,996,700**
[13] C

[51] **Int.Cl. C22B 3/44 (2006.01) B22F 9/26 (2006.01) C01G 3/00 (2006.01) C01G 51/00 (2006.01) C01G 53/00 (2006.01) C22B 15/00 (2006.01) C22B 23/00 (2006.01)**
[25] EN
[54] **HYDROGEN REDUCTION OF METAL SULPHATE SOLUTIONS FOR DECREASED SILICON IN METAL POWDER**
[54] **REDUCTION A L'HYDROGENE DE SOLUTIONS DE SULFATES METALLIQUES POUR LA REDUCTION DU SILICIUM DANS UNE POUDRE METALLIQUE**
[72] QIN, FU, CA
[73] SHERRITT INTERNATIONAL CORPORATION, CA
[85] 2018-02-27
[86] 2016-10-13 (PCT/CA2016/000261)
[87] (WO2017/063076)
[30] US (62/242,184) 2015-10-15

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[11] **2,999,547**
[13] C

[51] **Int.Cl. A61N 5/00 (2006.01) A61B 17/00 (2006.01) A61B 18/18 (2006.01) A61M 1/00 (2006.01) A61B 17/54 (2006.01)**

[25] EN
[54] **MICRODERMABRASION SYSTEM WITH COMBINATION SKIN THERAPIES**
[54] **SYSTEME DE MICRODERMABRASION AVEC THERAPIES CUTANEEES DE COMBINAISON**

[72] BOONE, BRENDON N., US
[72] HANTASH, BASIL M., US
[72] KARASIUK, KENNETH B., US
[73] ENVY MEDICAL, INC., US
[86] (2999547)
[87] (2999547)
[22] 2009-08-24
[62] 2,734,610
[30] US (12/197,065) 2008-08-22

[11] **3,000,239**
[13] C

[51] **Int.Cl. H02P 25/20 (2006.01) H02P 27/06 (2006.01)**

[25] EN
[54] **HIGH-LOW-VOLTAGE CONVERSION STAR MULTI-PHASE VARIABLE-FREQUENCY DRIVE SYSTEM**
[54] **SYSTEME D'ENTRAINEMENT A FREQUENCE VARIABLE MULTIPHASE EN ETOILE A CONVERSION DE HAUTE-BASSE TENSION**

[72] WANG, JIANQIAO, CN
[72] WU, XUANDONG, CN
[72] LIAN, CHENLONG, CN
[72] YAN, WEICAN, CN
[73] WOLONG ELECTRIC GROUP CO., LTD., CN
[85] 2018-03-26
[86] 2016-02-22 (PCT/CN2016/074203)
[87] (WO2017/049859)
[30] CN (201510614440.0) 2015-09-24

[11] **3,002,465**
[13] C

[51] **Int.Cl. F16M 11/24 (2006.01) A61G 7/012 (2006.01) A61G 7/05 (2006.01) A61G 13/02 (2006.01) A61G 13/10 (2006.01) B66F 7/28 (2006.01) F16B 7/10 (2006.01) F16M 1/00 (2006.01)**

[25] EN
[54] **CLADDING PROTECTION UNITS FOR TELESCOPING COLUMNS AND ADJUSTABLE SUPPORT APPARATUSES**
[54] **MODULES DE PROTECTION DE REVETEMENT DESTINES A DES COLONNES TELESCOPIQUES ET APPAREILS DE SUPPORT AJUSTABLES**

[72] HEINZ, DALBERT, US
[73] TRUMPF MEDIZIN SYSTEME GMBH + CO. KG, DE
[86] (3002465)
[87] (3002465)
[22] 2018-04-24
[30] US (62/491,696) 2017-04-28

[11] **3,002,610**
[13] C

[51] **Int.Cl. C07D 403/12 (2006.01) A61K 31/506 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 15/00 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07D 403/14 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01)**

[25] EN
[54] **N-SUBSTITUTED INDOLE DERIVATIVES AS PGE2 RECEPTOR MODULATORS**
[54] **UTILISATION DE DERIVES D'INDOLE N-SUBSTITUES COMME MODULATEURS DES RECEPTEURS DES PGE2**

[72] FRETZ, HEINZ, CH
[72] LYOTHIER, ISABELLE, CH
[72] POTHIER, JULIEN, CH
[72] RICHARD-BILDSTEIN, SYLVIA, CH
[72] SIFFERLEN, THIERRY, CH
[72] WYDER PETERS, LORENZA, CH
[72] POZZI, DAVIDE, CH
[72] CORMINBOEUF, OLIVIER, CH
[73] IDORSIA PHARMACEUTICALS LTD, CH
[85] 2018-04-19
[86] 2016-11-17 (PCT/EP2016/078028)
[87] (WO2017/085198)
[30] EP (PCT/EP2015/077269) 2015-11-20

[11] **3,002,661**
[13] C

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6886 (2018.01) C40B 30/04 (2006.01)**

[25] EN
[54] **USE OF GENE EXPRESSION PROFILING TO PREDICT SURVIVAL IN CANCER PATIENT**
[54] **UTILISATION DU PROFILAGE DE L'EXPRESSION GENETIQUE POUR PREVOIR LES CHANCES DE SURVIE D'UN PATIENT ATTEINT D'UN CANCER**

[72] SHAUGHNESSY, JOHN D., US
[72] ZHAN, FENGHUANG, US
[72] BARLOGIE, BART, US
[73] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, US
[86] (3002661)
[87] (3002661)
[22] 2005-05-20
[62] 2,567,350
[30] US (60/573,669) 2004-05-21
[30] US (60/606,319) 2004-09-01

[11] **3,002,862**
[13] C

[51] **Int.Cl. B30B 1/00 (2006.01)**

[25] EN
[54] **PRESS ASSEMBLY HAVING A PRESS TOOL**
[54] **ASSEMBLAGE DE PRESSE COMPORTANT UN OUTIL DE PRESSE**

[72] MATLACK, MICHAEL PALMORE, US
[72] SHEWCHUK, STEVEN MICHAEL, US
[73] THE BOEING COMPANY, US
[86] (3002862)
[87] (3002862)
[22] 2018-04-25
[30] US (15/609750) 2017-05-31

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[11] **3,003,700**
[13] C

[51] **Int.Cl. F02B 75/04 (2006.01) F01M 11/03 (2006.01) F02B 75/32 (2006.01)**

[25] EN

[54] **ACTUATOR DEVICE FOR VARIABLE COMPRESSION RATIO INTERNAL COMBUSTION ENGINE**

[54] **DISPOSITIF D'ACTIONNEUR POUR MOTEUR A COMBUSTION INTERNE A TAUX DE COMPRESSION VARIABLE**

[72] HIYOSHI, RYOSUKE, JP
[72] TANAKA, YOSHIAKI, JP
[72] NAGAI, KISHIRO, JP
[72] ONIGATA, JUNICHIRO, JP
[72] YAMADA, YOSHIHIKO, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2018-04-30
[86] 2016-09-27 (PCT/JP2016/078443)
[87] (WO2017/073225)
[30] JP (2015-213584) 2015-10-30

[11] **3,004,124**
[13] C

[51] **Int.Cl. C09K 11/06 (2006.01) B42D 25/00 (2014.01) B32B 27/30 (2006.01) C08L 33/12 (2006.01) C09K 11/02 (2006.01) D21H 21/40 (2006.01)**

[25] EN

[54] **SECURITY PIGMENT, LUMINESCENT POLYMER RESIN AND METHOD FOR PRODUCING SAME**

[54] **PIGMENT DE SECURITE, RESINE POLYMERE LUMINESCENTE ET PROCEDE DE PRODUCTION**

[72] KECHT, JOHANN, DE
[72] SCHLOSSBAUER, AXEL, DE
[73] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE
[85] 2018-05-03
[86] 2016-11-09 (PCT/EP2016/001864)
[87] (WO2017/080655)
[30] DE (10 2015 014 526.6) 2015-11-11

[11] **3,004,245**
[13] C

[51] **Int.Cl. A23B 4/06 (2006.01) A23B 4/09 (2006.01) A23L 3/36 (2006.01) A23L 3/375 (2006.01) F25C 1/00 (2006.01) F25D 3/02 (2006.01)**

[25] EN

[54] **ICE, REFRIGERANT, ICE PRODUCTION METHOD, METHOD FOR PRODUCING COOLED ARTICLE, METHOD FOR PRODUCING REFRIGERATED ARTICLE OF PLANT/ANIMAL OR PORTION THEREOF, REFRIGERATING MATERIAL FOR PLANT/ANIMAL OR PORTION THEREOF, METHOD FOR PRODUCING FROZEN FRESH PLANT/ANIMAL OR PORTION THEREOF, DEFROSTED ARTICLE OR PROCESSED ARTICLE THEREOF, AND FREEZING MATERIAL FOR**

...

[54] **GLACE, REFRIGERANT, PROCEDE DE PRODUCTION DE GLACE, PROCEDE DE PRODUCTION D'ARTICLE REFROIDI, PROCEDE DE PRODUCTION D'ARTICLE REFRIGERE DE PLANTE/ANIMAL OU PARTIE DE CE DERNIER, MATERIAU DE REFRIGERATION POUR PLANTE/ANIMAL OU PARTIE DE CE DERNIER, PROCEDE DE PRODUCTION DE PLANTE/ANIMAL FRAIS CONGELE OU PARTIE DE CE DERNIER, ARTICLE DECONGELE OU ARTICLE**

[72] HIROKANE, YOSHIO, JP
[72] AKIYAMA, TOMOAKI, JP
[72] IZUTSU, TADAO, JP
[73] BLANCTEC CO., LTD., JP
[85] 2018-05-03
[86] 2016-11-18 (PCT/JP2016/084319)
[87] (WO2017/086461)
[30] JP (2015-226589) 2015-11-19
[30] JP (2016-041189) 2016-03-03
[30] JP (2016-103012) 2016-05-24
[30] JP (2016-103013) 2016-05-24
[30] JP (2016-103014) 2016-05-24
[30] JP (2016-103637) 2016-05-24
[30] JP (2016-103638) 2016-05-24
[30] JP (2016-103639) 2016-05-24
[30] JP (2016-103640) 2016-05-24
[30] JP (2016-132615) 2016-07-04

[11] **3,005,366**
[13] C

[51] **Int.Cl. E01C 9/00 (2006.01) E01C 5/00 (2006.01) E01C 11/00 (2006.01)**

[25] EN

[54] **PAVING ELEMENT HAVING DRAINAGE CHANNELS AND PAVEMENT SYSTEM INCORPORATING SAME**

[54] **ELEMENT DE PAVAGE MUNI DE CANAUX DE DRAINAGE ET SYSTEME DE CHAUSSEE LE COMPORTANT**

[72] VON LANGSDORFF, HARALD, CA
[72] JAMES, WILLIAM, CA
[73] F. VON LANGSDORFF LICENSING LIMITED, CA
[85] 2018-05-15
[86] 2016-11-17 (PCT/CA2016/051345)
[87] (WO2017/083977)
[30] US (62/256,471) 2015-11-17
[30] US (62/382,758) 2016-09-01

[11] **3,007,714**
[13] C

[51] **Int.Cl. G21C 15/247 (2006.01) H02K 44/00 (2006.01)**

[25] EN

[54] **NUCLEAR REACTOR LIQUID METAL COOLANT BACKFLOW CONTROL**

[54] **COMMANDE DE FLUX DE RETOUR DE LIQUIDE DE REFROIDISSEMENT A METAL LIQUIDE DANS UN REACTEUR NUCLEAIRE**

[72] LOEWEN, ERIC PAUL, US
[72] STREGE, SETH RYAN PAUL, US
[72] O'NEILL, NICHOLAS FRANCIS, US
[72] O'CONNOR, COLIN CHRISTOPHER, US
[72] CURTIN, CHELSEA ANN, US
[72] WU, EDWIN, US
[73] GE-HITACHI NUCLEAR ENERGY AMERICAS LLC, US
[85] 2018-06-06
[86] 2016-11-30 (PCT/US2016/064112)
[87] (WO2017/116596)
[30] US (14/960,532) 2015-12-07

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[11] **3,008,237**
[13] C

[51] **Int.Cl. B65D 17/00 (2006.01)**
[25] EN
[54] **CAN LID**
[54] **COUVERCLE DE BOITE**
[72] THIELEN, KLAUS, DE
[72] THIELEN, EVA-MARIA, DE
[73] PIECH, GREGOR ANTON, AT
[85] 2018-06-12
[86] 2016-11-10 (PCT/EP2016/077249)
[87] (WO2017/108260)
[30] DE (10 2015 122 548.4) 2015-12-22

[11] **3,009,335**
[13] C

[51] **Int.Cl. D21H 21/00 (2006.01)**
[25] EN
[54] **FIBROUS STRUCTURES
COMPRISING PHASE CHANGE
MATERIALS**
[54] **STRUCTURES FIBREUSES
COMPRENANT DES MATERIAUX
A CHANGEMENT DE PHASE**
[72] SAKAAN ZAYID, LATISHA
EVETTE, US
[72] BETANCOURT, JOSE ENRIQUE, US
[73] THE PROCTER & GAMBLE
COMPANY, US
[86] (3009335)
[87] (3009335)
[22] 2018-06-26
[30] US (62/525,814) 2017-06-28

[11] **3,009,546**
[13] C

[51] **Int.Cl. B63G 8/16 (2006.01) B63H
3/00 (2006.01) B63H 5/10 (2006.01)**
[25] EN
[54] **MARINE VEHICLE THRUSTER
CONTROL METHOD**
[54] **PROCEDE DE PILOTAGE D'UN
PROPULSEUR D'UN VEHICULE
MARIN**
[72] BOREL, CHRISTOPHE, FR
[72] BRUNET, JEAN-PHILIPPE, FR
[72] THECKES, BENOIT, FR
[72] BOUYER, CYRIL, FR
[73] THALES, FR
[85] 2018-06-22
[86] 2016-12-22 (PCT/EP2016/082506)
[87] (WO2017/109149)
[30] FR (1502682) 2015-12-23

[11] **3,009,593**
[13] C

[51] **Int.Cl. B01D 71/68 (2006.01) B01D
67/00 (2006.01) B01D 69/08 (2006.01)
B01D 71/44 (2006.01)**
[25] EN
[54] **FILTER MEMBRANE AND
DEVICE**
[54] **MEMBRANE FILTRANTE ET
DISPOSITIF DU TYPE FILTRE**
[72] KRAUSE, BERND, DE
[72] BOSCHETTI-DE-FIERRO,
ADRIANA, DE
[72] VOIGT, MANUEL, DE
[72] GECKELER, JOHANNES, DE
[72] SCHWEIGER, FERDINAND, DE
[73] GAMBRO LUNDIA AB, SE
[85] 2018-06-22
[86] 2017-01-19 (PCT/EP2017/051044)
[87] (WO2017/125470)
[30] EP (16152332.9) 2016-01-22

[11] **3,010,188**
[13] C

[51] **Int.Cl. A61B 1/24 (2006.01)**
[25] EN
[54] **DENTAL IMAGER AND METHOD
FOR RECORDING
PHOTOGRAPHIC IMPRESSIONS**
[54] **DISPOSITIF D'IMAGERIE
DENTAIRE ET PROCEDE
D'ENREGISTREMENT
D'IMPRESSIONS
PHOTOGRAPHIQUES**
[72] MARTIN, MARCO, US
[73] MARTIN, MARCO, US
[85] 2018-06-28
[86] 2017-02-01 (PCT/US2017/016088)
[87] (WO2017/136471)
[30] US (62/289,504) 2016-02-01
[30] US (15/422,201) 2017-02-01

[11] **3,010,629**
[13] C

[51] **Int.Cl. B07C 3/08 (2006.01) B65G 1/06
(2006.01)**
[25] EN
[54] **MATERIAL HANDLING
APPARATUS WITH DELIVERY
VEHICLES**
[54] **APPAREIL DE MANUTENTION
AVEC VEHICULES DE
LIVRAISON**
[72] DEWITT, ROBERT R., US
[72] STEVENS, ALEXANDER, US
[72] MCVAUGH, MONTY, US
[72] WALSH, JAMES, US
[72] WILSON, GREGORY, US
[73] OPEX CORPORATION, US
[85] 2018-07-04
[86] 2017-01-11 (PCT/US2017/013077)
[87] (WO2017/123678)
[30] US (62/277,253) 2016-01-11
[30] US (62/331,020) 2016-05-03
[30] US (62/374,218) 2016-08-12

[11] **3,010,699**
[13] C

[51] **Int.Cl. A61C 5/50 (2017.01) A61C
1/00 (2006.01) A61C 17/02 (2006.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT
FOR CLEANING OF A CANAL**
[54] **PROCEDE ET AGENCEMENT
POUR LE NETTOYAGE D'UN
CANAL**
[72] ERTL, THOMAS, DE
[72] DIEBOLDER, ROLF, DE
[73] DEGUDENT GMBH, DE
[73] DENTSPLY SIRONA INC., US
[85] 2018-07-05
[86] 2017-03-22 (PCT/EP2017/056751)
[87] (WO2017/162705)
[30] EP (16161539.8) 2016-03-22
[30] EP (16184968.2) 2016-08-19

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[11] **3,011,254**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **QUINAZOLINONE DERIVATIVE, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION, AND APPLICATIONS**

[54] **DERIVE DE QUINAZOLINONE, SON PROCEDE DE PREPARATION, COMPOSITION PHARMACEUTIQUE, ET APPLICATIONS ASSOCIEES**

[72] LEE, WEN-CHERNG, CN

[72] LIAO, BAISONG, CN

[73] KANGPU BIOPHARMACEUTICALS, LTD, CN

[85] 2018-07-11

[86] 2017-01-13 (PCT/CN2017/071147)

[87] (WO2017/121388)

[30] CN (201610023840.9) 2016-01-14

[11] **3,015,422**
[13] C

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

[25] EN

[54] **CAN LID, RECLOSABLE**

[54] **COUVERCLE DE CONTENANT REFERMABLE**

[72] PIECH, GREGOR ANTON, AT

[73] PIECH, GREGOR ANTON, AT

[85] 2018-08-22

[86] 2017-02-07 (PCT/EP2017/052626)

[87] (WO2017/148659)

[30] DE (10 2016 103 801.6) 2016-03-03

[11] **3,017,313**
[13] C

[51] **Int.Cl. B24D 15/08 (2006.01) B24B 3/54 (2006.01)**

[25] EN

[54] **ADJUSTABLE SHARPENER**

[54] **AFFUTEUSE REGLABLE**

[72] CHALFANT, LOUIS, US

[72] DUKES, RICKY L., US

[73] SMITH'S CONSUMER PRODUCTS, INC., US

[86] (3017313)

[87] (3017313)

[22] 2018-09-13

[30] US (16/058,188) 2018-08-08

[11] **3,018,657**
[13] C

[51] **Int.Cl. B01D 53/04 (2006.01) B01D 53/047 (2006.01) B01D 53/26 (2006.01)**

[25] EN

[54] **A DRYER FOR DRYING COMPRESSED GAS AND METHOD OF REGENERATING A DESICCANT MATERIAL COMPRISED WITHIN SAID DRYER.**

[54] **SECHEUR POUR LE SECHAGE DE GAZ COMPRISE ET PROCEDE DE REGENERATION D'UN MATERIAU DESSICCANTIF COMPRIS DANS LEDIT SECHEUR.**

[72] HERMANS, HANS MARIA KAREL, BE

[72] CARPELS, DIRK EMIEL E, BE

[73] ATLAS COPCO AIRPOWER, NV, BE

[85] 2018-09-21

[86] 2017-03-28 (PCT/IB2017/051752)

[87] (WO2017/175093)

[30] US (62/320,176) 2016-04-08

[30] BE (2016/5906) 2016-12-07

[11] **3,019,645**
[13] C

[51] **Int.Cl. B65F 9/00 (2006.01) B65F 3/00 (2006.01) G06Q 50/00 (2012.01)**

[25] EN

[54] **SYSTEMS & METHOD FOR INTERROGATING, PUBLISHING AND ANALYZING INFORMATION RELATED TO A WASTE HAULING VEHICLE**

[54] **SYSTEMES ET PROCEDE D'INTERROGATION, DE PUBLICATION ET D'ANALYSE D'INFORMATIONS RELATIVES A UN VEHICULE D'ENLEVEMENT DES DECHETS**

[72] FLOOD, CHRISTOPHER M., US

[73] ADVANCED CUSTOM ENGINEERED SYSTEMS & EQUIPMENT COMPANY, US

[85] 2018-10-01

[86] 2017-03-31 (PCT/US2017/025569)

[87] (WO2017/173381)

[30] US (62/316,263) 2016-03-31

[11] **3,020,358**
[13] C

[51] **Int.Cl. G01K 15/00 (2006.01)**

[25] EN

[54] **METHOD FOR CALIBRATING A TEMPERATURE MEASURING DEVICE OF A DENTAL OVEN AND CALIBRATION ELEMENT**

[54] **PROCEDE D'ETALONNAGE D'UN APPAREIL DE MESURE DE TEMPERATURE D'UN FOUR DENTAIRE ET BLOC D'ETALONNAGE**

[72] KURZ, CHRISTIAN, DE

[73] SIRONA DENTAL SYSTEMS GMBH, DE

[85] 2018-10-09

[86] 2017-04-13 (PCT/EP2017/058906)

[87] (WO2017/178579)

[30] DE (10 2016 206 447.9) 2016-04-15

[11] **3,021,680**
[13] C

[51] **Int.Cl. C07K 14/52 (2006.01) A61K 47/50 (2017.01) A61K 38/19 (2006.01)**

[25] EN

[54] **FUSION PROTEIN COMPRISING CCL3 VARIANT AND USE THEREOF CROSS-REFERENCE TO RELATED APPLICATIONS**

[54] **PROTEINE DE FUSION COMPRENANT UN VARIANT DE CCL3 ET SON UTILISATION EN REFERENCE CROISEE AVEC DES APPLICATIONS ASSOCIEES**

[72] NAM, SU YOUN, KR

[72] KIM, JONG GYUN, KR

[72] CHOI, BYUNG HYUN, KR

[72] LEE, JUNE HYUNG, KR

[72] PARK, JU YOUNG, KR

[72] LEE, JUN KYUNG, KR

[72] LEE, NA RAE, KR

[72] KIM, KI HONG, KR

[72] KIM, SEUL GI, KR

[72] OH, SE WOONG, KR

[72] SHIN, SEUNG YUB, KR

[72] KANG, HU WOONG, KR

[72] AHN, SU JIN, KR

[72] CHUNG, SOO YONG, KR

[73] YUHAN CORPORATION, KR

[85] 2018-10-19

[86] 2017-04-19 (PCT/KR2017/004199)

[87] (WO2017/188653)

[30] KR (10-2016-0053018) 2016-04-29

**Brevets canadiens délivrés
15 mars 2022**

[11] **3,021,799**
[13] C

[51] **Int.Cl. A61L 27/34 (2006.01) C09D 7/63 (2018.01) A01N 47/44 (2006.01) A01P 1/00 (2006.01) C09D 5/14 (2006.01)**

[25] EN

[54] **ENHANCED FORMULATIONS FOR COATING MEDICAL DEVICES**

[54] **FORMULATIONS AMELIOREES DE REVETEMENT DE DISPOSITIFS MEDICAUX**

[72] GIARE-PATEL, KAMNA, US

[72] GUPTA, NISHA, US

[72] ETTER, GREG, US

[72] SECHRIST, KEVIN, US

[72] STEWART, MOLLY, US

[72] TENTLER, IGOR, US

[72] WILLIAMS, AL, US

[73] ARROW INTERNATIONAL LLC, US

[86] (3021799)

[87] (3021799)

[22] 2012-11-08

[62] 2,855,218

[30] US (13/292,636) 2011-11-09

[30] US (61/605.590) 2012-03-01

[11] **3,022,075**
[13] C

[51] **Int.Cl. B23K 35/22 (2006.01) B23K 35/24 (2006.01) B23K 35/36 (2006.01) B23K 35/40 (2006.01)**

[25] EN

[54] **ULTRA-LOW SILICON WIRE FOR WELDING HAVING EXCELLENT POROSITY RESISTANCE AND ELECTRODEPOSITION COATING PROPERTIES, AND DEPOSITED METAL OBTAINED THEREFROM**

[54] **FIL EN SILICONE ULTRA BAS SERVANT AU SOUDAGE AYANT D'EXCELLENTE PROPRIETES DE RESISTANCE A LA POROSITE ET DE REVETEMENT PAR ELECTRODEPOSITION, ET METAL DEPOSE AINSI OBTENU**

[72] SEO, JI SEOK, KR

[72] KIM, JAE JUNG, KR

[72] PARK, SANG MIN, KR

[72] KIM, YONG DEOG, KR

[72] KIM, SEOK HWAN, KR

[73] HYUNDAI WELDING CO., LTD., KR

[86] (3022075)

[87] (3022075)

[22] 2018-10-24

[30] KR (10-2017-0141240) 2017-10-27

[11] **3,022,405**
[13] C

[51] **Int.Cl. C10G 51/02 (2006.01) C10G 69/06 (2006.01)**

[25] EN

[54] **TWO STAGE THERMAL CRACKING PROCESS WITH MULTISTAGE SEPARATION SYSTEM**

[54] **PROCEDE DE CRAQUAGE THERMIQUE A DEUX ETAGES COMPORTANT UNE SEPARATION MULTIETAGE**

[72] DAS, SATYEN KUMAR, IN

[72] PRASAD, TERAPALLI HARI VENKATA DEVI, IN

[72] PRADEEP, PONOLY RAMACHANDRAN, IN

[72] KOTTAKUNA, ARJUN KUMAR, IN

[72] BHATTACHARYYA, DEBASIS, IN

[72] MAZUMDAR, SANJIV KUMAR, IN

[72] RAMAKUMAR, SANKARA SRI VENKATA, IN

[73] INDIAN OIL CORPORATION LIMITED, IN

[86] (3022405)

[87] (3022405)

[22] 2018-10-26

[30] IN (201721045561) 2017-12-19

[11] **3,022,680**
[13] C

[51] **Int.Cl. F24D 1/00 (2022.01) F22B 3/00 (2006.01)**

[25] EN

[54] **VACUUM STEAM HEATING SYSTEM**

[54] **SYSTEME DE CHAUFFAGE A VAPEUR ET A VIDE**

[72] KHAN, ANTON VIKTOROVICH, KZ

[72] VAN, IGOR WU-YUNOVICH, RU

[72] KHAN, LYUBOV VIKTOROVNA, KZ

[72] KHAN, VIKTOR KONSTANTINOVICH, KZ

[73] "ENERGY OF VACUUM" LIMITED LIABILITY COMPANY, RU

[85] 2018-10-30

[86] 2017-01-30 (PCT/RU2017/000042)

[87] (WO2017/146608)

[30] RU (2016106130) 2016-02-24

[11] **3,024,445**
[13] C

[51] **Int.Cl. A61K 47/12 (2006.01) A24F 40/10 (2020.01) A24B 15/16 (2020.01) A61K 9/08 (2006.01) A61K 9/72 (2006.01) A61K 31/465 (2006.01)**

[25] EN

[54] **SOLUTION COMPRISING NICOTINE IN UNPROTONATED FROM AND PROTONATED FORM**

[54] **SOLUTION RENFERMANT DE LA NICOTINE SOUS UNE FORME NON PROTONEE ET UNE FORME PROTONEE**

[72] MCADAM, KEVIN GERARD, GB

[72] BRUTON, CONNON, GB

[73] NICOVENTURES TRADING LIMITED, GB

[86] (3024445)

[87] (3024445)

[22] 2015-11-06

[62] 2,964,844

[30] GB (1419865.9) 2014-11-07

[11] **3,024,469**
[13] C

[51] **Int.Cl. E21B 47/12 (2012.01) E21B 43/04 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PERFORMING HYDROCARBON OPERATIONS USING COMMUNICATIONS ASSOCIATED WITH COMPLETIONS**

[54] **METHODE ET SYSTEME D'EXECUTION D'EXPLOITATION D'HYDROCARBURE AU MOYEN DE COMMUNICATIONS ASSOCIEES AUX COMPLETIONS**

[72] YI, XIAOHUA, US

[72] VANDE LUNE, STEVEN D., US

[72] BARRY, MICHAEL D., US

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[86] (3024469)

[87] (3024469)

[22] 2018-11-16

[30] US (62/588,103) 2017-11-17

**Canadian Patents Issued
March 15, 2022**

[11] **3,024,631**
[13] C

[51] **Int.Cl. C12Q 3/00 (2006.01) C12M 1/36 (2006.01) C12P 1/00 (2006.01) C12P 1/04 (2006.01) C12P 7/06 (2006.01)**

[25] EN

[54] **CONTROL OF BIOREACTOR PROCESSES**

[54] **REGULATION DE PROCEDES EN BIOREACTEUR**

[72] WATERS, GUY WILLIAM, US
[72] BROMLEY, JASON CARL, US
[72] YANG, JUSTIN YI, US
[72] WILSON, JAROD NATHAN, US
[72] COLLET, CHRISTOPHE, US
[73] LANZATECH NZ, INC., NZ
[86] (3024631)
[87] (3024631)
[22] 2015-05-06
[62] 2,954,496
[30] US (14/329,881) 2014-07-11

[11] **3,024,786**
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01) E21B 44/04 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR MITIGATING VIBRATIONS IN A DRILLING SYSTEM**

[54] **PROCEDES ET SYSTEMES DESTINES A ATTENUER LES VIBRATIONS DANS UN SYSTEME DE FORAGE**

[72] ZHAO, YIMING, US
[72] DYKSTRA, JASON DANIEL, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2018-11-19
[86] 2016-07-29 (PCT/US2016/044706)
[87] (WO2018/022089)

[11] **3,025,017**
[13] C

[51] **Int.Cl. H04L 12/12 (2006.01) H04L 67/141 (2022.01) H04L 67/30 (2022.01) H04L 67/52 (2022.01) H04M 3/523 (2006.01)**

[25] EN

[54] **CONNECTED MACHINE INITIATED SERVICE**

[54] **SERVICE DECLENCHE PAR MACHINE CONNECTEE**

[72] STOOPS, DANIEL STEWART, US
[72] KAISER, LIZANNE, US
[72] BELL, CLIFF W., US
[73] GREENEDEN U.S. HOLDINGS II, LLC, US
[85] 2018-11-20
[86] 2017-06-06 (PCT/US2017/036214)
[87] (WO2017/214192)
[30] US (15/176,400) 2016-06-08
[30] US (15/176,502) 2016-06-08

[11] **3,025,530**
[13] C

[51] **Int.Cl. A45D 44/00 (2006.01)**

[25] EN

[54] **PRECISION APPLICATOR**

[54] **APPLICATEUR DE PRECISION**

[72] STANLEY, SCOTT KENDYL, US
[72] FARRELL, MICHAEL SEAN, US
[72] RAPACH, ANDREW PAUL, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2018-11-23
[86] 2017-06-07 (PCT/US2017/036369)
[87] (WO2017/214283)
[30] US (62/347,196) 2016-06-08
[30] US (62/475,255) 2017-03-23

[11] **3,027,974**
[13] C

[51] **Int.Cl. A61K 49/00 (2006.01) A61K 31/5415 (2006.01) A61K 51/04 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **THERAPEUTIC USE OF DIAMINOPHENOTHIAZINES**

[54] **UTILISATION THERAPEUTIQUE DE DIAMINOPHENOTHIAZINES**

[72] HARRINGTON, CHARLES ROBERT, GB
[72] STOREY, JOHN MERVYN DAVID, GB
[72] WISCHIK, CLAUDE MICHEL, GB
[72] WISCHIK, DAMON JUDE, GB
[73] WISTA LABORATORIES LTD., SG
[86] (3027974)
[87] (3027974)
[22] 2008-10-01
[62] 2,701,075
[30] US (60/960,544) 2007-10-03

[11] **3,029,186**
[13] C

[51] **Int.Cl. A61B 17/221 (2006.01)**

[25] EN

[54] **EMBOLECTOMY SYSTEM AND METHODS OF MAKING AND USING SAME**

[54] **SYSTEME D'EMBOLECTOMIE ET PROCEDES DE FABRICATION ET D'UTILISATION**

[72] LONG, TROY, US
[73] ICHOR VASCULAR INC., US
[85] 2018-12-21
[86] 2016-07-23 (PCT/US2016/043769)
[87] (WO2017/019572)
[30] US (62/196,881) 2015-07-24

**Brevets canadiens délivrés
15 mars 2022**

[11] **3,029,752**

[13] C

[51] **Int.Cl. C07K 14/705 (2006.01) A61K 38/17 (2006.01) C07K 14/71 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **CANCER TREATMENT COMPOSITION FOR INHIBITING TUMOR ANGIOGENESIS, CONTAINING VEGF DEEP BLOCKER, AND PREPARATION METHOD THEREFOR**

[54] **COMPOSITION POUR LE TRAITEMENT DU CANCER DESTINEE A INHIBER L'ANGIOGENESE TUMORALE, CONTENANT UN AGENT BLOQUANT EN PROFONDEUR DU VEGF, ET SON PROCEDE DE PREPARATION**

[72] KIM, HOEON, KR

[72] LEE, HYUN-JU, KR

[73] IBENTRUS, INC., KR

[85] 2019-01-02

[86] 2016-07-05 (PCT/KR2016/007231)

[87] (WO2018/008772)

[11] **3,030,484**

[13] C

[51] **Int.Cl. A63B 71/06 (2006.01) A63B 63/00 (2006.01) F41J 1/00 (2006.01) F41J 5/00 (2006.01)**

[25] EN

[54] **SCORING DEVICE AND METHODS FOR SCORING A SNOWBALL FIGHT**

[54] **DISPOSITIF DE COMPTAGE DE POINTS ET PROCEDES DE COMPTAGE DES POINTS D'UNE BATAILLE DE BOULES DE NEIGE**

[72] MOLONEY, PETER, US

[73] MOLONEY, PETER, US

[85] 2019-01-09

[86] 2017-07-28 (PCT/US2017/044377)

[87] (WO2018/022996)

[30] US (15/222,044) 2016-07-28

[11] **3,030,846**

[13] C

[51] **Int.Cl. H04W 80/10 (2009.01) H04W 88/16 (2009.01) H04W 88/18 (2009.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PROVIDING MOBILITY MANAGEMENT IN NETWORK**

[54] **PROCEDE ET SYSTEME POUR FOURNIR UNE GESTION DE MOBILITE DANS UN RESEAU**

[72] BANIEL, URI, US

[72] ABOU-ASSALI, TAREK, US

[72] RILEY, YUSUN KIM, US

[73] CAMIANT, INC., US

[86] (3030846)

[87] (3030846)

[22] 2009-06-05

[62] 2,730,103

[30] US (61/059,133) 2008-06-05

[11] **3,031,478**

[13] C

[51] **Int.Cl. G01K 7/02 (2021.01) H01B 7/00 (2006.01) H01B 13/22 (2006.01) H01B 13/32 (2006.01)**

[25] EN

[54] **POLYMER INSULATED THERMOCOUPLE BUNDLES**

[54] **FAISCEAUX DE THERMOCOUPLES A ISOLANT DE POLYMERE**

[72] MELNYCHUK, MICHAEL, CA

[73] PRECISE DOWNHOLE SERVICES LTD., CA

[86] (3031478)

[87] (3031478)

[22] 2019-01-25

[11] **3,031,637**

[13] C

[51] **Int.Cl. B65D 6/18 (2006.01) B65D 6/04 (2006.01) B65D 6/16 (2006.01)**

[25] EN

[54] **COLLAPSIBLE CRATE**

[54] **CAISSE Pliable**

[72] GREEN, JEFF, US

[72] GOMEZ-MUSTAFA, JOSE F., US

[73] U.S. MERCHANTS FINANCIAL GROUP, INC., US

[86] (3031637)

[87] (3031637)

[22] 2016-01-18

[62] 2,918,113

[30] US (14/746,770) 2015-06-22

[11] **3,031,947**

[13] C

[51] **Int.Cl. C09K 5/04 (2006.01) B60H 1/32 (2006.01) F25B 9/00 (2006.01)**

[25] EN

[54] **HEAT TRANSFER COMPOSITIONS, METHODS AND SYSTEMS**

[54] **COMPOSITIONS, PROCEDES ET SYSTEMES DE TRANSFERT DE CHALEUR**

[72] SETHI, ANKIT, US

[72] YANA MOTTA, SAMUEL F., US

[72] POTTKER, GUSTAVO, US

[72] SMITH, GREGORY LAURENCE, CA

[72] VERA BECERRA, ELIZABET DEL CARMEN, US

[72] ZOU, YANG, US

[72] CLOSE, JOSHUA, US

[73] HONEYWELL INTERNATIONAL INC., US

[85] 2019-01-24

[86] 2017-07-27 (PCT/US2017/044182)

[87] (WO2018/022888)

[30] US (62/368,521) 2016-07-29

[30] US (62/502,231) 2017-05-05

[30] US (62/502,165) 2017-05-05

[11] **3,032,319**

[13] C

[51] **Int.Cl. A61H 19/00 (2006.01)**

[25] EN

[54] **BODY MASSAGING DEVICE AND METHOD OF OPERATING THE SAME**

[54] **APPAREIL DE MASSAGE DE CORPS HUMAIN ET PROCEDE POUR SON FONCTIONNEMENT**

[72] FU, YIDONG, CN

[73] FU, YIDONG, CN

[85] 2019-01-29

[86] 2017-08-07 (PCT/CN2017/096170)

[87] (WO2018/095070)

[30] CN (201611046350.7) 2016-11-23

**Canadian Patents Issued
March 15, 2022**

[11] **3,033,127**
[13] C

[51] **Int.Cl. A01D 41/06 (2006.01) A01D 41/14 (2006.01) A01D 47/00 (2006.01) A01D 57/20 (2006.01)**

[25] EN

[54] **CROSS AUGER MOUNTING DEVICE FOR FLEXIBLE HARVESTING HEADER**

[54] **DISPOSITIF DE MONTAGE TRANSVERSAL DE VIS HELICOIDALE DESTINE A UNE TETE DE RECOLTEUSE FLEXIBLE**

[72] MCCREA, THOMAS E., CA
[73] AG SHIELD LTD., CA
[86] (3033127)
[87] (3033127)
[22] 2019-02-07
[30] US (62627506) 2018-02-07

[11] **3,033,297**
[13] C

[51] **Int.Cl. E02F 9/24 (2006.01)**

[25] EN

[54] **EMERGENCY STOP APPARATUS AND METHOD FOR WORKING MACHINE**

[54] **APPAREIL D'ARRET D'URGENCE ET METHODE DESTINEE A UNE MACHINE DE CONSTRUCTION**

[72] KAJIWARA, SATORU, JP
[72] AITA, HISASHI, JP
[72] MIYAMOTO, TAKA, JP
[73] NIPPO CORPORATION, JP
[85] 2019-02-08
[86] 2018-12-28 (PCT/JP2018/048574)
[87] (WO2019/155794)
[30] JP (2018-019846) 2018-02-07

[11] **3,034,669**
[13] C

[51] **Int.Cl. F24F 11/63 (2018.01) G05B 11/38 (2006.01) G05B 13/02 (2006.01)**

[25] EN

[54] **A CONTROLLER, METHOD AND COMPUTER PROGRAM PRODUCT FOR CONTROLLING AN ENVIRONMENTAL CONDITION IN A BUILDING**

[54] **UN CONTROLEUR, UNE METHODE ET UN PRODUIT DE PROGRAMME INFORMATIQUE SERVANT A CONTROLER UNE CONDITION ENVIRONNEMENTALE DANS UN BATIMENT**

[72] GAGNON, DOMINIC, CA
[73] DISTECH CONTROLS INC, CA
[86] (3034669)
[87] (3034669)
[22] 2019-02-22
[30] US (15/906,709) 2018-02-27

[11] **3,034,686**
[13] C

[51] **Int.Cl. G10L 21/038 (2013.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ENCODING AN AUDIO SIGNAL USING A COMPENSATION VALUE**

[54] **APPAREIL ET PROCEDE DE CODAGE D'UN SIGNAL AUDIO AU MOYEN D'UNE VALEUR DE COMPENSATION**

[72] DISCH, SASCHA, DE
[72] REUTELHUBER, FRANZ, DE
[72] BUTHE, JAN, DE
[72] MULTRUS, MARKUS, DE
[72] EDLER, BERND, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2019-02-21
[86] 2017-08-21 (PCT/EP2017/071048)
[87] (WO2018/036972)
[30] EP (16185398.1) 2016-08-23

[11] **3,035,245**
[13] C

[51] **Int.Cl. A61B 34/00 (2016.01) A61B 34/30 (2016.01) A61B 90/57 (2016.01) A61G 13/10 (2006.01)**

[25] EN

[54] **TABLE ADAPTERS FOR MOUNTING ROBOTIC ARMS TO A SURGICAL TABLE**

[54] **ADAPTATEURS DE TABLE POUR MONTAGE DE BRAS ROBOTIQUES SUR UNE TABLE CHIRURGICALE**

[72] CAGLE, DAVID, US
[72] GARCIA KILROY, PABLO E., US
[72] KOENIG, KAREN SHAKESPEAR, US
[72] GEE, JACOB SPENCER, US
[72] GROUT, WAYNE, US
[72] SCHALLER, MICHAEL P., US
[73] VERB SURGICAL INC., US
[85] 2019-02-26
[86] 2017-09-15 (PCT/US2017/051805)
[87] (WO2018/053281)
[30] US (62/395,807) 2016-09-16
[30] US (62/417,211) 2016-11-03

[11] **3,036,080**
[13] C

[51] **Int.Cl. B65B 51/10 (2006.01) B26D 7/00 (2006.01) B26F 1/38 (2006.01) B26F 1/40 (2006.01) B29C 51/42 (2006.01) B29C 65/18 (2006.01) B29C 65/30 (2006.01)**

[25] EN

[54] **DUAL PURPOSE SEAL HEAD ASSEMBLY, TRAY SEALING SYSTEM, AND METHOD THEREFOR**

[54] **ENSEMBLE TETE DE SCELLAGE A DOUBLE USAGE, SYSTEME DE SCELLAGE A PLATEAUX, ET PROCEDE ASSOCIE**

[72] HARRISON, WILLIAM, US
[72] JONES, ANDREW, US
[72] LILES, GARY, US
[72] ALEXANDER, DAVID, US
[73] ROSS INDUSTRIES, INC., US
[85] 2019-03-06
[86] 2017-10-31 (PCT/US2017/059193)
[87] (WO2018/081773)
[30] US (62/414,925) 2016-10-31

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[11] **3,036,928**

[13] C

- [51] **Int.Cl. G01S 19/40 (2010.01) G01S 19/11 (2010.01) G01S 19/22 (2010.01)**
[25] EN
[54] **LOCALIZATION AND TRACKING USING LOCATION, SIGNAL STRENGTH, AND PSEUDORANGE DATA**
[54] **LOCALISATION ET SUIVI A L'AIDE D'UN EMPLACEMENT, D'UNE INTENSITE DE SIGNAL ET DE DONNEES DE PSEUDO-DISTANCE**
[72] MADHOW, UPAMANYU, US
[72] IRISH, ANDREW, US
[73] UBER TECHNOLOGIES, INC., US
[85] 2019-03-14
[86] 2017-09-14 (PCT/IB2017/055581)
[87] (WO2018/051274)
[30] US (62/394,703) 2016-09-14
[30] US (15/396,297) 2016-12-30
[30] US (15/659,536) 2017-07-25

[11] **3,037,654**

[13] C

- [51] **Int.Cl. A24F 40/50 (2020.01) A61M 15/06 (2006.01)**
[25] EN
[54] **INHALER DEVICE, AND METHOD AND PROGRAM FOR OPERATING THE SAME**
[54] **DISPOSITIF D'INHALATION ET PROCEDE ET PROGRAMME POUR SON FONCTIONNEMENT**
[72] YAMADA, MANABU, JP
[72] TAKEUCHI, MANABU, JP
[72] MATSUMOTO, HIROFUMI, JP
[73] JAPAN TOBACCO INC., JP
[85] 2019-03-20
[86] 2017-01-24 (PCT/JP2017/002214)
[87] (WO2018/138749)

[11] **3,038,357**

[13] C

- [51] **Int.Cl. F16B 33/00 (2006.01) F16B 35/04 (2006.01)**
[25] EN
[54] **REDUCED ELECTROMAGNETIC SIGNATURE OF CONFORMING CONICAL SEAL FASTENER SYSTEMS**
[54] **SIGNATURE ELECTROMAGNETIQUE REDUITE DE SYSTEMES DE FIXATION A JOINTS D'ETANCHEITE CONIQUES CONFORMES**
[72] LIEBSCHER, ANDREAS, US
[72] PRACHUMSRI, WUDHIDHAM, US
[72] LEA, CURTIS, US
[72] HAYLOCK, LUKE, US
[73] HOWMET AEROSPACE INC., US
[85] 2019-03-25
[86] 2017-12-08 (PCT/US2017/065356)
[87] (WO2018/111723)
[30] US (62/433,545) 2016-12-13

[11] **3,038,363**

[13] C

- [51] **Int.Cl. A01N 47/44 (2006.01) A01N 37/20 (2006.01) A01N 43/40 (2006.01) A01N 43/50 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01N 43/828 (2006.01) A01N 43/84 (2006.01) A01N 47/02 (2006.01) A01N 47/12 (2006.01) A01N 47/38 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **FUNGICIDAL COMPOSITION HAVING SYNERGISTIC EFFECT COMPRISING POLYHEXAMETHYLENE BIGUANIDE AND A CONAZOLE FUNGICIDE**
[54] **COMPOSITION FONGICIDE AYANT UN EFFET SYNERGIQUE COMPRENANT DU POLYHEXAMETHYLENE BIGUANIDE ET UN FONGICIDE CONAZOLE**
[72] JI, HONGJIN, CN
[72] ZHONG, HANGEN, CN
[73] ADAMA HUIFENG (JIANGSU) LTD., CN
[86] (3038363)
[87] (3038363)
[22] 2013-06-13
[62] 2,989,158
[30] CN (201310165069.5) 2013-05-07

[11] **3,038,431**

[13] C

- [51] **Int.Cl. F01N 3/04 (2006.01) F01N 11/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD TO DETERMINE A FLOW RATE OF A WASHING LIQUID AT AN EXHAUST GAS INLET OF AN EXHAUST GAS CLEANING SYSTEM OF A MARINE VESSEL**
[54] **SYSTEME ET PROCEDE POUR DETERMINER UN DEBIT D'UN LIQUIDE DE LAVAGE AU NIVEAU D'UNE ENTREE DE GAZ D'ECHAPPEMENT D'UN SYSTEME DE NETTOYAGE DE GAZ D'ECHAPPEMENT DE NAVIRE**
[72] BAHADUR THAPA, SHYAM, NO
[72] AHLSTROM, CHRISTOFFER, SE
[73] YARA MARINE TECHNOLOGIES AS, NO
[85] 2019-03-26
[86] 2017-10-27 (PCT/EP2017/077558)
[87] (WO2018/078075)
[30] EP (16196145.3) 2016-10-28

[11] **3,040,390**

[13] C

- [51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61F 2/82 (2013.01)**
[25] EN
[54] **IMPROVEMENTS FOR PROSTHETIC VALVES AND RELATED INVENTIONS**
[54] **AMELIORATIONS APPORTEES A DES VALVES PROTHETIQUES ET INVENTIONS ASSOCIEES**
[72] VIDLUND, ROBERT, US
[72] SCHANKERELI, KEMAL, US
[72] LOZONSCHI, LUCIAN, US
[72] LUTTER, GEORG, US
[73] TENDYNE HOLDINGS, INC., US
[86] (3040390)
[87] (3040390)
[22] 2012-08-13
[62] 2,957,442
[30] US (61/522,542) 2011-08-11
[30] US (61/522,468) 2011-08-11
[30] US (61/522,450) 2011-08-11
[30] US (61/522,476) 2011-08-11
[30] US (61/523,134) 2011-08-12
[30] US (61/564,462) 2011-11-29
[30] US (61/615,264) 2012-03-24

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[13] C
[51] **Int.Cl. C11D 1/62 (2006.01) C11D 3/00 (2006.01) C11D 3/37 (2006.01)**
[25] EN
[54] **FABRIC TREATMENT COMPOSITIONS HAVING LOW CALCULATED CATIONIC CHARGE DENSITY POLYMERS AND FABRIC SOFTENING ACTIVES AND METHODS FOR PROVIDING A BENEFIT**
[54] **COMPOSITIONS DE TRAITEMENT DE TEXTILE AYANT DES POLYMERES A FAIBLE DENSITE DE CHARGE CATIONIQUE CALCULEE ET DES AGENTS ACTIFS ASSOUPLEISSANTS POUR TEXTILE, ET PROCEDES APPORTANT UN BENEFICE**
[72] FOSSUM, RENAE DIANNA, US
[72] FONSECA, GLEDISON, DE
[72] FLORES-FIGUERO, AARON, DE
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-04-17
[86] 2017-11-14 (PCT/US2017/061494)
[87] (WO2018/093759)
[30] US (15/356,101) 2016-11-18

[11] **3,041,892**
[13] C
[51] **Int.Cl. C12P 7/04 (2006.01) C07C 31/125 (2006.01) C12N 9/00 (2006.01) C12N 9/02 (2006.01) C12N 9/04 (2006.01) C12N 9/10 (2006.01) C12N 9/18 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/54 (2006.01) C12N 15/55 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING A FATTY ALCOHOL IN A HOST CELL**
[54] **PROCEDES PERMETTANT DE PRODUIRE UN ALCOOL GRAS DANS UNE CELLULE HOTE**
[72] HU, ZHIHAO, US
[73] GENOMATICA, INC., US
[86] (3041892)
[87] (3041892)
[22] 2009-10-07
[62] 2,740,037
[30] US (61/109,131) 2008-10-28

[11] **3,043,472**
[13] C
[51] **Int.Cl. C08G 18/66 (2006.01) C08G 18/18 (2006.01) C08J 9/14 (2006.01) C08L 75/06 (2006.01) C08L 75/08 (2006.01)**
[25] EN
[54] **HYDROFLUORO OLEFIN PROPELLANT IN A POLYURETHANE FOAM COMPOSITION**
[54] **AGENT PROPULSEUR A BASE D'HYDROFLUORO-OLEFINE DANS UNE COMPOSITION DE MOUSSE DE POLYURETHANE**
[72] SHINKO, ANDREW P., US
[72] TAYLOR, ANTHONY J., US
[73] ICP CONSTRUCTION, INC., US
[85] 2019-05-09
[86] 2018-09-07 (PCT/US2018/050070)
[87] (WO2019/051306)
[30] US (62/555,677) 2017-09-08

[11] **3,044,178**
[13] C
[51] **Int.Cl. A61K 31/4439 (2006.01) A23L 27/20 (2016.01) A23L 33/10 (2016.01) A01N 47/30 (2006.01) A01P 7/04 (2006.01) A01P 17/00 (2006.01) A61K 8/42 (2006.01) A61K 8/49 (2006.01) A61K 31/165 (2006.01) A61K 31/17 (2006.01) A61K 31/343 (2006.01) A61K 31/381 (2006.01) A61K 31/4164 (2006.01) A61K 31/445 (2006.01) A61K 31/4453 (2006.01) A61K 31/495 (2006.01) A61K 31/498 (2006.01) C07K 14/705 (2006.01) C12N 15/12 (2006.01) C12N 15/85 (2006.01) D06M 16/00 (2006.01)**
[25] EN
[54] **DETECTION AND USE OF AROMATIC COMPOUNDS AS MODULATORS OF THE COLD-MENTHOL RECEPTOR**
[54] **DETECTION ET UTILISATION DE COMPOSES AROMATIQUES COMME MODULATEUR DU RECEPTEUR DE MENTHOL FROID**
[72] BOLLSCHWEILER, CLAUS, DE
[72] KROHN, MICHAEL, DE
[72] SUBKOWSKI, THOMAS, DE
[72] WITTENBERG, JENS, DE
[72] ZINKE, HOLGER, DE
[73] BASF SE, DE
[86] (3044178)
[87] (3044178)
[22] 2009-08-26
[62] 2,937,196
[30] EP (08162997.4) 2008-08-26

[11] **3,046,139**
[13] C
[51] **Int.Cl. H04N 5/225 (2006.01) H04N 5/232 (2006.01) H04N 5/235 (2006.01)**
[25] EN
[54] **CAMERA ASSEMBLY AND MOBILE ELECTRONIC DEVICE**
[54] **ENSEMBLE APPAREIL DE PRISES DE VUES ET DISPOSITIF ELECTRONIQUE MOBILE**
[72] ZHOU, YIBAO, CN
[72] CHENG, JIAO, CN
[72] ZHANG, HAIPING, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-06-05
[86] 2018-05-02 (PCT/CN2018/085359)
[87] (WO2018/202049)
[30] CN (201710305278.3) 2017-05-03

[11] **3,046,481**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/12 (2012.01) G06Q 20/20 (2012.01)**
[25] EN
[54] **PAYMENT AND INVOICE SYSTEMS INTEGRATION**
[54] **INTEGRATION DE SYSTEMES DE PAIEMENT ET DE FACTURATION**
[72] HOANG, BRITNEY, US
[72] SHILWANT, SHAILESH, US
[72] BJORNSSON, ERICA S., US
[72] COSTELLO, PAIGE E., US
[72] VISWANADHA, KAMESHWARI, US
[72] DAS, RITA, US
[72] HILL, BRADFORD, US
[72] GOREGAOKER, SACHIN P., US
[72] SCHNEIDER, JIM, US
[72] PALETI, VENKATA RAM KUMAR, US
[72] VANKAYALA, LAKSHMI NARAYANA, US
[73] INTUIT INC., US
[85] 2019-06-07
[86] 2017-12-07 (PCT/US2017/065142)
[87] (WO2018/106934)
[30] US (15/372,384) 2016-12-07

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[11] **3,047,781**
[13] C

[51] **Int.Cl. B65H 45/00 (2006.01) B65H 45/20 (2006.01)**

[25] EN

[54] **METHOD FOR COMPACTLY FOLDING PAPER AND PRODUCT**

[54] **METHODE DE PLIAGE COMPACT DE PAPIER ET PRODUIT**

[72] LUVIANO, RUBEN, US

[72] MILLER, TOM, US

[73] PLATINUM PRESS, INC., US

[85] 2019-06-25

[86] 2018-09-14 (PCT/US2018/051172)

[87] (WO2020/055430)

[11] **3,048,146**
[13] C

[51] **Int.Cl. H03F 1/32 (2006.01) H03F 1/02 (2006.01) H03F 3/189 (2006.01) H03F 3/68 (2006.01)**

[25] EN

[54] **AMPLIFIER WITH POWER DISSIPATION REDUCTION USING SINGLE RADIO FREQUENCY DIGITAL-TO-ANALOG CONVERTER**

[54] **AMPLIFICATEUR A REDUCTION DE DISSIPATION DE PUISSANCE A L'AIDE D'UN CONVERTISSEUR NUMERIQUE-ANALOGIQUE UNIQUE RADIOFREQUENCE**

[72] SCHEMMANN, MARCEL F., NL

[72] LESHEM, IDO, IL

[73] ARRIS ENTERPRISES LLC, US

[85] 2019-06-21

[86] 2017-12-18 (PCT/US2017/066947)

[87] (WO2018/118749)

[30] US (15/387,880) 2016-12-22

[11] **3,048,342**
[13] C

[51] **Int.Cl. G06Q 20/00 (2012.01) G06Q 20/08 (2012.01) H04L 12/16 (2006.01)**

[25] EN

[54] **NETWORK PAYMENT METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME DE PAIEMENT EN RESEAU**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[86] (3048342)

[87] (3048342)

[22] 2014-05-12

[62] 2,985,890

[11] **3,048,772**
[13] C

[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/60 (2020.01) A61M 15/06 (2006.01)**

[25] EN

[54] **INHALER DEVICE, AND METHOD AND PROGRAM FOR OPERATING THE SAME**

[54] **DISPOSITIF D'INHALATION, ET PROCEDE ET PROGRAMME DE FONCTIONNEMENT D'UN TEL DISPOSITIF D'INHALATION**

[72] YAMADA, MANABU, JP

[72] TAKEUCHI, MANABU, JP

[72] MATSUMOTO, HIROFUMI, JP

[73] JAPAN TOBACCO INC., JP

[85] 2019-06-27

[86] 2017-01-24 (PCT/JP2017/002217)

[87] (WO2018/138750)

[11] **3,048,819**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61F 13/00 (2006.01) A61L 15/22 (2006.01) A61L 15/42 (2006.01) A61M 27/00 (2006.01)**

[25] EN

[54] **REDUCED-PRESSURE DRESSINGS, SYSTEMS, AND METHODS FOR USE WITH LINEAR WOUNDS**

[54] **PANSEMENTS A PRESSION REDUITE, SYSTEMES ET PROCEDES A UTILISER AVEC DES PLAIES LINEAIRES**

[72] SIMMONS, TYLER, US

[72] HALL, COLIN JOHN, US

[72] ROBINSON, TIMOTHY MARK, US

[73] 3M INNOVATIVE PROPERTIES COMPANY, US

[86] (3048819)

[87] (3048819)

[22] 2011-11-29

[62] 2,826,666

[30] US (61/442,723) 2011-02-14

[11] **3,049,053**
[13] C

[51] **Int.Cl. H04W 40/22 (2009.01) H04W 40/30 (2009.01) H04W 76/27 (2018.01)**

[25] EN

[54] **DUPLICATION MODE COMMUNICATION PROCESSING METHOD IN CU-DU ARCHITECTURE, AND DEVICE**

[54] **METHODE DE TRAITEMENT DE COMMUNICATION EN MODE DE DUPLICATION DANS L'ARCHITECTURE UNITE CENTRALE-UNITE DISTRIBUEE, ET DISPOSITIF**

[72] LUO, HAIYAN, CN

[72] YANG, XUDONG, CN

[72] PENG, WENJIE, CN

[72] DAI, MINGZENG, CN

[73] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2019-07-10

[86] 2019-01-14 (PCT/CN2019/071563)

[87] (WO2019/137519)

[30] CN (201810032653.6) 2018-01-12

[11] **3,049,879**
[13] C

[51] **Int.Cl. B25J 15/00 (2006.01) B25J 5/00 (2006.01) B25J 19/00 (2006.01)**

[25] EN

[54] **A DEVICE FOR TRAVERSING AN OBJECT**

[54] **DISPOSITIF POUR PENETRER DANS UN OBJET**

[72] HAYDEN, GARY JAMES, AU

[73] WHITE PUMA PTY LIMITED, AU

[86] (3049879)

[87] (3049879)

[22] 2011-10-19

[62] 2,815,052

[30] US (61/394,764) 2010-10-19

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[11] **3,050,743**
[13] C

[51] **Int.Cl. B65D 1/02 (2006.01) B29C 49/00 (2006.01) B65D 1/10 (2006.01) B65D 1/40 (2006.01)**

[25] EN

[54] **PLASTIC CONTAINERS, BASE CONFIGURATIONS FOR PLASTIC CONTAINERS, AND SYSTEMS, METHODS, AND BASE MOLDS THEREOF**

[54] **RECIPIENTS EN PLASTIQUE, CONFIGURATIONS DE BASE POUR RECIPIENTS EN PLASTIQUE ET SYSTEMES, PROCEDES ET MOULES DE BASE ASSOCIES**

[72] BYSICK, SCOTT E., US

[72] WURSTER, MICHAEL P., US

[73] GRAHAM PACKAGING COMPANY, L.P., US

[86] (3050743)

[87] (3050743)

[22] 2012-08-10

[62] 2,845,561

[30] US (13/210,358) 2011-08-15

[11] **3,050,780**
[13] C

[51] **Int.Cl. F04D 19/04 (2006.01) F04D 17/12 (2006.01) F04D 17/16 (2006.01) H01J 49/26 (2006.01)**

[25] EN

[54] **TURBO MOLECULAR PUMP FOR MASS SPECTROMETER**

[54] **POMPE TURBOMOLECULAIRE DE SPECTROMETRE DE MASSE**

[72] STEINER, URS, CH

[72] FRANZEN, JOCHEN, DE

[73] BRUKER DALTONIK GMBH, DE

[86] (3050780)

[87] (3050780)

[22] 2019-07-30

[30] DE (102018119747-0) 2018-08-14

[11] **3,051,878**
[13] C

[51] **Int.Cl. C11D 3/00 (2006.01) C11D 1/62 (2006.01) C11D 3/22 (2006.01) C11D 3/37 (2006.01) C11D 3/50 (2006.01) C11D 17/00 (2006.01)**

[25] EN

[54] **FABRIC SOFTENER COMPOSITION COMPRISING ENCAPSULATED BENEFIT AGENT**

[54] **COMPOSITION D'ADOUCISSANT POUR TISSUS COMPRENANT UN AGENT BENEFIQUE ENCAPSULE**

[72] FERNANDEZ PRIETO, SUSANA, BE

[72] SMETS, JOHAN, BE

[72] SAVEYN, PIETER JAN MARIA, BE

[72] ORLANDINI, LAURA, CH

[73] THE PROCTER & GAMBLE COMPANY, US

[85] 2019-07-26

[86] 2018-03-16 (PCT/US2018/022792)

[87] (WO2018/170357)

[30] EP (17161464.7) 2017-03-16

[11] **3,052,001**
[13] C

[51] **Int.Cl. H04W 52/34 (2009.01) H04W 24/08 (2009.01) H04W 52/24 (2009.01)**

[25] EN

[54] **COMMUNICATION CONTROL DEVICE, COMMUNICATION CONTROL METHOD, COMMUNICATION DEVICE, COMMUNICATION METHOD, AND COMMUNICATION SYSTEM**

[54] **DISPOSITIF DE COMMANDE DE COMMUNICATION, PROCEDE DE COMMANDE DE COMMUNICATION, DISPOSITIF DE COMMUNICATION, PROCEDE DE COMMUNICATION ET SYSTEME DE COMMUNICATION**

[72] KIMURA, RYOTA, JP

[72] SAWAI, RYO, JP

[73] SONY CORPORATION, JP

[86] (3052001)

[87] (3052001)

[22] 2011-09-16

[62] 2,809,651

[30] JP (2010-244295) 2010-10-29

[30] JP (2010-289183) 2010-12-27

[30] JP (2011-029992) 2011-02-15

[11] **3,052,060**
[13] C

[51] **Int.Cl. E02F 3/96 (2006.01) B66C 23/42 (2006.01) B66C 23/44 (2006.01) B66C 25/00 (2006.01) E02F 3/38 (2006.01) F16L 1/024 (2006.01) F16L 1/028 (2006.01)**

[25] EN

[54] **PIPE LAYER ATTACHMENT FOR AN EXCAVATOR**

[54] **FIXATION DE COUCHE DE TUYAU POUR EXCAVATRICE**

[72] DEN HOED, TONY, US

[72] DUFF, JOHN W., US

[72] WAHLER, MATTHEW, US

[72] LARSSON, LARS-INGE, DE

[73] VOLVO CONSTRUCTION EQUIPMENT AB, SE

[85] 2019-07-30

[86] 2017-01-31 (PCT/US2017/015745)

[87] (WO2018/143915)

[11] **3,052,746**
[13] C

[51] **Int.Cl. F24F 1/0011 (2019.01) F24F 1/0047 (2019.01) F24F 13/06 (2006.01)**

[25] EN

[54] **PNEUMATIC RADIATION AIR CONDITIONER**

[54] **CONDITIONNEUR D'AIR A RAYONNEMENT PNEUMATIQUE**

[72] KIMURA, KEIICHI, JP

[72] URANO, KATSUHIRO, JP

[72] SHIOJI, MASAKI, JP

[73] KIMURA KOHKI CO., LTD., JP

[86] (3052746)

[87] (3052746)

[22] 2019-08-22

[30] JP (2018-169646) 2018-09-11

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[11] **3,053,264**
[13] C

[51] **Int.Cl. H03M 13/13 (2006.01) H04L 1/00 (2006.01)**
[25] EN
[54] **POLAR ENCODING AND DECODING METHOD, SENDING DEVICE, AND RECEIVING DEVICE**
[54] **PROCEDE ET DISPOSITIF DE CODAGE ET DE DECODAGE DE CODE POLAIRE, DISPOSITIF D'ENVOI ET DISPOSITIF DE RECEPTION**
[72] CHEN, YING, CN
[72] ZHANG, GONGZHENG, CN
[72] QIAO, YUNFEI, CN
[72] LI, RONG, CN
[72] ZHANG, HUAZI, CN
[72] LUO, HEJIA, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-08-12
[86] 2018-03-29 (PCT/CN2018/081189)
[87] (WO2018/177386)
[30] CN (201710214465.0) 2017-04-01

[11] **3,053,521**
[13] C

[51] **Int.Cl. B60P 1/54 (2006.01) B62D 63/06 (2006.01)**
[25] EN
[54] **MOVABLE PLATFORM WITH A MECHANICAL LIFT BRAKE ASSEMBLY**
[54] **PLATE-FORME MOBILE DOTEE D'UN ENSEMBLE FREIN DE LEVAGE MECANIQUE**
[72] GALEWYRICK, SETH, US
[72] SULLIVAN, PATRICK, US
[72] BRADLEY, MARK, US
[73] INNOVATIVE LOGISTICS, INC., US
[85] 2019-08-13
[86] 2018-02-22 (PCT/US2018/019178)
[87] (WO2018/156733)
[30] US (62/462,003) 2017-02-22

[11] **3,053,569**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61J 15/00 (2006.01) A61M 39/08 (2006.01) A61M 39/28 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR CLEARING TUBING**
[54] **DISPOSITIF ET PROCEDE D'EVACUATION DE TUBES**
[72] PHILLIPS, JANET L.F., US
[72] PHILLIPS, MICHAEL J., US
[72] WALTERS, GLENN, US
[73] VECTOR SURGICAL, LLC, US
[86] (3053569)
[87] (3053569)
[22] 2016-04-28
[62] 2,984,959
[30] US (62/153770) 2015-04-28

[11] **3,054,116**
[13] C

[51] **Int.Cl. F02M 27/04 (2006.01) F02B 51/04 (2006.01) F23K 5/08 (2006.01) H01F 5/02 (2006.01) H01F 5/06 (2006.01)**
[25] FR
[54] **TUBULAR INDUCTION MEMBER FOR REDUCING THE FUEL CONSUMPTION OF AN ENGINE**
[54] **ORGANE D'INDUCTION TUBULAIRE POUR LA REDUCTION DE LA CONSOMMATION EN CARBURANT D'UN MOTEUR**
[72] ALLEMEERSCH, JEAN MARC, FR
[73] ALLEMEERSCH, JEAN MARC, FR
[85] 2019-08-20
[86] 2018-02-22 (PCT/FR2018/050415)
[87] (WO2018/154241)
[30] EP (17305201.0) 2017-02-24

[11] **3,054,446**
[13] C

[51] **Int.Cl. A42B 3/00 (2006.01) A42B 3/04 (2006.01) A42B 3/08 (2006.01) A42B 3/22 (2006.01) A42B 3/30 (2006.01) A42B 3/32 (2006.01) A62B 18/00 (2006.01) A62B 18/08 (2006.01)**
[25] EN
[54] **MOUNTING RAIL ASSEMBLY**
[54] **ENSEMBLE RAIL DE MONTAGE**
[72] O'CONNELL, JASON W., US
[72] NOORDZIJ, DUCO W., US
[73] GENTEX CORPORATION, US
[85] 2019-08-22
[86] 2018-03-13 (PCT/US2018/022221)
[87] (WO2018/169984)
[30] US (62/470,630) 2017-03-13

[11] **3,054,449**
[13] C

[51] **Int.Cl. A42B 3/04 (2006.01) A42B 1/24 (2021.01) A42B 3/08 (2006.01)**
[25] EN
[54] **HELMET MOUNTED SHROUD**
[54] **ELEMENT DE FIXATION MONTE SUR UN CASQUE**
[72] O'CONNELL, JASON W., US
[73] GENTEX CORPORATION, US
[85] 2019-08-22
[86] 2018-03-13 (PCT/US2018/022222)
[87] (WO2018/169985)
[30] US (62/470,508) 2017-03-13

[11] **3,054,586**
[13] C

[51] **Int.Cl. B60Q 1/04 (2006.01) B60Q 1/00 (2006.01)**
[25] EN
[54] **QUICK ADJUST VEHICLE HEADLIGHT ASSEMBLY**
[54] **ENSEMBLE DE PHARE A REGLAGE RAPIDE**
[72] MASKIW, ROD, CA
[73] MOTOR COACH INDUSTRIES LIMITED, CA
[73] MOTOR COACH INDUSTRIES, INC., US
[85] 2019-08-23
[86] 2018-02-26 (PCT/US2018/019715)
[87] (WO2018/157054)
[30] US (15/444,017) 2017-02-27

[11] **3,054,993**
[13] C

[51] **Int.Cl. C09J 7/00 (2018.01) B65H 18/28 (2006.01) C09D 5/20 (2006.01)**
[25] EN
[54] **SIDE PASSIVATION**
[54] **PASSIVATION DE FACE LATERALE**
[72] MITROVIC, SLOBODAN, DE
[73] BIOLOGISCHE INSEL LOTHAR MOLL GMBH & CO. KG, DE
[85] 2019-08-29
[86] 2018-03-02 (PCT/EP2018/055168)
[87] (WO2018/162344)
[30] DE (10 2017 104 408.6) 2017-03-02

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[11] **3,055,071**
[13] C

[51] **Int.Cl. G06F 13/16 (2006.01) G06F 3/06 (2006.01)**
[25] EN
[54] **WRITING COMPOSITE OBJECTS TO A DATA STORE**
[54] **ECRITURE D'OBJETS COMPOSITES DANS UN MAGASIN DE DONNEES**
[72] KESLER, GRIGORIY, US
[73] INTUIT INC., US
[85] 2019-08-29
[86] 2018-08-01 (PCT/US2018/044809)
[87] (WO2019/028140)
[30] US (15/667,448) 2017-08-02

[11] **3,056,507**
[13] C

[51] **Int.Cl. E04F 15/024 (2006.01) E04F 15/02 (2006.01) E04F 15/18 (2006.01)**
[25] EN
[54] **DECK PEDESTAL**
[54] **SUPPORT DE PLATEFORME**
[72] KNIGHT, STEPHEN J., III, US
[72] KUGLER, WILLIAM E., US
[73] UNITED CONSTRUCTION PRODUCTS, LLC, US
[86] (3056507)
[87] (3056507)
[22] 2015-06-26
[62] 2,985,906
[30] US (14/725,488) 2015-05-29

[11] **3,056,961**
[13] C

[51] **Int.Cl. B63B 45/08 (2006.01) H04R 1/34 (2006.01)**
[25] EN
[54] **CONTROL AND AUDIO SYSTEMS FOR A BOAT**
[54] **SYSTEMES AUDIO ET DE COMMANDE POUR UN BATEAU**
[72] SHEEDY, DARREN S., US
[72] EKERN, DAVID F., US
[73] MASTERCRAFT BOAT COMPANY, LLC, US
[85] 2019-09-17
[86] 2018-04-27 (PCT/US2018/029713)
[87] (WO2018/204171)
[30] US (62/492,926) 2017-05-01
[30] US (15/633,727) 2017-06-26

[11] **3,057,397**
[13] C

[51] **Int.Cl. G01S 17/58 (2006.01) G01S 17/95 (2006.01)**
[25] EN
[54] **LIDAR MEASURING DEVICE FOR DETERMINING THE SPEED OF PARTICLES IN A MEASURING VOLUME**
[54] **DISPOSITIF DE MESURE PAR LIDAR POUR DETERMINER LA VITESSE DE PARTICULES DANS UN VOLUME A MESURER**
[72] PETERS, GERHARD, DE
[72] BRINKMEYER, ERNST, DE
[72] BOLLIG, CHRISTOPH, DE
[73] METEK METEOROLOGISCHE MESSTECHNIK GMBH, DE
[85] 2019-09-20
[86] 2018-03-20 (PCT/EP2018/057050)
[87] (WO2018/172369)
[30] DE (10 2017 106 226.2) 2017-03-22

[11] **3,057,494**
[13] C

[51] **Int.Cl. A43B 13/22 (2006.01) A43B 5/02 (2006.01) A43B 13/26 (2006.01) A43C 15/02 (2006.01) A43C 15/06 (2006.01) A43C 15/16 (2006.01)**
[25] EN
[54] **ARTICLE OF FOOTWEAR WITH MODIFIABLE SOLE**
[54] **CHAUSSURE A SEMELLE MODIFIABLE**
[72] MAHONEY, CHRISTOPHER J., US
[73] SAUCONY, INC., US
[86] (3057494)
[87] (3057494)
[22] 2019-10-03
[30] US (16/585451) 2019-09-27

[11] **3,057,511**
[13] C

[51] **Int.Cl. A41B 9/14 (2006.01) A41C 3/00 (2006.01) A41C 3/12 (2006.01) A41C 5/00 (2006.01) A41F 9/00 (2006.01)**
[25] EN
[54] **UPPER AND LOWER TORSO GARMENTS HAVING AN IMPROVED BAND**
[54] **VETEMENTS DE TORSO SUPERIEURS ET INFERIEURS AYANT UNE BANDE AMELIOREE**
[72] ABBOTT, MICHAEL D., US
[72] WARREN, ROGER D., US
[72] L'ITALIEN, REGINALD, US
[73] HBI BRANDED APPAREL ENTERPRISES, LLC, US
[86] (3057511)
[87] (3057511)
[22] 2016-09-02
[62] 2,996,171
[30] US (14/845,181) 2015-09-03

[11] **3,057,526**
[13] C

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 30/06 (2012.01)**
[25] EN
[54] **PAYMENT SYSTEM BASED ON DIFFERENT FUNDS-MANAGEMENT SERVERS, AND PAYMENT METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR DIFFERENTS SERVEURS DE FONDS ET PROCEDE DE PAIEMENT, DISPOSITIF ET SERVEUR ASSOCIES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3057526)
[87] (3057526)
[22] 2015-05-28
[62] 2,988,428
[30] CN (201510218466.3) 2015-04-30

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[11] **3,057,823**

[13] C

- [51] **Int.Cl. B31D 1/00 (2017.01) B31D 5/00 (2017.01)**
[25] EN
[54] **DUNNAGE CONVERSION MACHINE HAVING A VARIABLE SPACING FOR EXPANDABLE SLIT-SHEET STOCK MATERIAL**
[54] **MACHINE DE CONVERSION DE MATERIAU DE CALAGE AYANT UN ESPACEMENT VARIABLE POUR MATERIAU DE STOCK DE FEUILLES FENDUE EXTENSIBLE**
[72] CHEICH, ROBERT C., US
[72] WAGNER, DENNIS J., US
[73] RANPAK CORP., US
[85] 2019-09-24
[86] 2018-03-22 (PCT/US2018/023799)
[87] (WO2018/175742)
[30] US (62/476,488) 2017-03-24

[11] **3,058,430**

[13] C

- [51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE HYBRID X03M280**
[54] **MAIS HYBRIDE X03M280**
[72] GROTE, EDWIN MICHAEL, US
[72] RIEDEMAN, ERIC SCOTT, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3058430)
[87] (3058430)
[22] 2019-10-10

[11] **3,058,510**

[13] C

- [51] **Int.Cl. F27D 11/08 (2006.01) F27B 3/08 (2006.01) F27B 3/28 (2006.01) F27B 5/18 (2006.01) F27B 14/20 (2006.01) F27D 19/00 (2006.01) H05B 7/10 (2006.01) H05B 7/144 (2006.01)**
[25] EN
[54] **OPEN ARC CONDITION MITIGATION BASED ON MEASUREMENT**
[54] **ATTENUATION D'ETAT D'ARC OUVERT BASEE SUR UNE MESURE**
[72] CAMPBELL, MICHAEL MORGAN, CA
[72] HAWTHORNE, STEVEN ROBERT, CA
[72] SHEN, DONG, CA
[73] HATCH LTD., CA
[85] 2019-09-30
[86] 2018-01-22 (PCT/CA2018/050072)
[87] (WO2018/176119)
[30] US (62/480,317) 2017-03-31

[11] **3,058,529**

[13] C

- [51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **CROSS-FUNDS MANAGEMENT SERVER-BASED PAYMENT SYSTEM, AND METHOD, DEVICE AND SERVER THEREFOR**
[54] **SYSTEME DE PAIEMENT BASE SUR UN SERVEUR DE GESTION DE FONDS CROISES, ET PROCEDE, DISPOSITIF ET SERVEUR ASSOCIE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3058529)
[87] (3058529)
[22] 2015-05-28
[62] 2,987,291
[30] CN (201510218467.8) 2015-04-30

[11] **3,058,767**

[13] C

- [51] **Int.Cl. A61K 49/00 (2006.01) A61P 13/12 (2006.01) C07D 241/20 (2006.01)**
[25] EN
[54] **METHODS FOR RENAL FUNCTION DETERMINATION**
[54] **METHODES POUR EVALUER LA FONCTION RENALE**
[72] RAJAGOPALAN, RAGHAVAN, US
[72] DORSHOW, RICHARD B., US
[72] NEUMANN, WILLIAM L., US
[72] ROGERS, THOMAS E., US
[73] MEDIBEACON INC., US
[85] 2019-10-01
[86] 2018-10-26 (PCT/US2018/057743)
[87] (WO2019/084425)
[30] US (62/577,951) 2017-10-27

[11] **3,058,934**

[13] C

- [51] **Int.Cl. B65D 17/00 (2006.01)**
[25] EN
[54] **METALLIC CAN LID**
[54] **COUVERCLE DE BOITE METALLIQUE**
[72] PIECH, GREGOR ANTON, AT
[73] PIECH, GREGOR ANTON, AT
[85] 2019-10-03
[86] 2017-05-12 (PCT/EP2017/061474)
[87] (WO2018/184704)
[30] EP (17165040.1) 2017-04-05

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[11] **3,060,532**
[13] C

[51] **Int.Cl. H04L 65/60 (2022.01) H04H 20/86 (2009.01) H04J 11/00 (2006.01) H04H 20/71 (2009.01)**

[25] EN

[54] **DYNAMIC CONFIGURATION OF A FLEXIBLE ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING PHY TRANSPORT DATA FRAME**

[54] **CONFIGURATION DYNAMIQUE D'UNE TRAME FLEXIBLE DE DONNEES DE TRANSPORT/PHY A MULTIPLEXAGE PAR REPARTITION ORTHOGONALE DE LA FREQUENCE**

[72] SIMON, MICHAEL J., US
[72] SHELBY, KEVIN A., US
[72] EARNSHAW, MARK, CA
[73] ONE MEDIA, LLC, US
[86] (3060532)
[87] (3060532)
[22] 2015-08-07
[62] 3,016,736
[30] US (62/034,583) 2014-08-07

[11] **3,060,534**
[13] C

[51] **Int.Cl. H05G 1/12 (2006.01) G05F 1/46 (2006.01) H02M 7/02 (2006.01) H05G 1/26 (2006.01) H05G 1/32 (2006.01)**

[25] EN

[54] **METHODS FOR PRECISE OUTPUT VOLTAGE STABILITY AND TEMPERATURE COMPENSATION OF HIGH VOLTAGE X-RAY GENERATORS WITHIN THE HIGH-TEMPERATURE ENVIRONMENTS OF A BOREHOLE**

[54] **PROCEDES DE STABILITE DE TENSION DE SORTIE PRECISE ET DE COMPENSATION DE TEMPERATURE DE GENERATEURS DE RAYONS X A HAUTE TENSION DANS LES ENVIRONNEMENTS A HAUTE TEMPERATURE D'UN TR OU DE FORAGE**

[72] TEAGUE, PHILIP, US
[72] YU, LONG, US
[73] TEAGUE, PHILIP, US
[73] YU, LONG, US
[85] 2019-10-17
[86] 2018-04-17 (PCT/US2018/027986)
[87] (WO2018/195089)
[30] US (62/486250) 2017-04-17
[30] US (15/955263) 2018-04-17

[11] **3,060,546**
[13] C

[51] **Int.Cl. H04W 72/00 (2009.01) H04J 11/00 (2006.01)**

[25] EN

[54] **DYNAMIC CONFIGURATION OF A FLEXIBLE ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING PHY TRANSPORT DATA FRAME**

[54] **CONFIGURATION DYNAMIQUE D'UNE TRAME FLEXIBLE DE DONNEES DE TRANSPORT/PHY A MULTIPLEXAGE PAR REPARTITION ORTHOGONALE DE LA FREQUENCE**

[72] SIMON, MICHAEL J., US
[72] SHELBY, KEVIN A., US
[72] EARNSHAW, MARK, CA
[73] ONE MEDIA, LLC, US
[86] (3060546)
[87] (3060546)
[22] 2015-08-07
[62] 3,016,736
[30] US (62/034,583) 2014-08-07

[11] **3,060,850**
[13] C

[51] **Int.Cl. F16J 15/3232 (2016.01) F16J 15/3252 (2016.01) F16K 1/20 (2006.01)**

[25] EN

[54] **SEAL, ASSEMBLY, AND METHODS OF USING THE SAME**

[54] **JOINT D'ETANCHEITE, ENSEMBLE ET PROCEDES D'UTILISATION ASSOCIES**

[72] KUSTERMANS, JAN, BE
[72] DUBOIS, HERMAN M., BE
[72] MAES, ROEL, BE
[72] STEVENHEYDENS, GINO L., BE
[72] VAN GILS, KRIS, BE
[72] TITTONEL, GABRIELE, BE
[72] VANDENHEUVEL, WIM, BE
[73] SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, US
[85] 2019-10-17
[86] 2018-05-07 (PCT/US2018/031346)
[87] (WO2018/208654)
[30] US (62/503,611) 2017-05-09

[11] **3,061,255**
[13] C

[51] **Int.Cl. G01F 15/00 (2006.01) A61M 5/168 (2006.01)**

[25] EN

[54] **FLOW SENSOR SYSTEM INCLUDING TRANSMISSIVE CONNECTION**

[54] **SYSTEME DE CAPTEUR DE DEBIT COMPRENANT UNE CONNEXION DE TRANSMISSION**

[72] DEKALB, SHAWN W., US
[73] CRISI MEDICAL SYSTEMS, INC., US
[86] (3061255)
[87] (3061255)
[22] 2016-08-25
[62] 2,995,008
[30] US (62/211,108) 2015-08-28

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[11] **3,061,517**
[13] C

[51] **Int.Cl. C03C 4/20 (2006.01) A61J 1/05 (2006.01) B65D 1/40 (2006.01) B65D 25/14 (2006.01) C03B 23/04 (2006.01) C03C 17/34 (2006.01)**

[25] EN

[54] **GLASS CONTAINERS WITH DELAMINATION RESISTANCE AND IMPROVED DAMAGE TOLERANCE**

[54] **RECIPIENTS EN VERRE AYANT UNE RESISTANCE AU DELAMINAGE ET UNE TOLERANCE A L'ENDOMMAGEMENT AMELIOREE**

[72] CHANG, THERESA, US

[72] DANIELSON, PAUL STEPHEN, US

[72] DEMARTINO, STEVEN EDWARD, US

[72] FADEEV, ANDREI GENNADYEVICH, US

[72] MORENA, ROBERT MICHAEL, US

[72] PAL, SANTONA, US

[72] PEANASKY, JOHN STEPHEN, US

[72] SCHAUT, ROBERT ANTHONY, US

[72] TIMMONS, CHRISTOPHER LEE, US

[72] VENKATARAMAN, NATESAN, US

[72] VERKLEEREN, RONALD LUCE, US

[72] BOOKBINDER, DANA CRAIG, US

[73] CORNING INCORPORATED, US

[86] (3061517)

[87] (3061517)

[22] 2013-11-22

[62] 2,891,784

[30] US (61/731,767) 2012-11-30

[30] US (13/780,754) 2013-02-28

[30] US (13/912,457) 2013-06-07

[30] US (14/075,620) 2013-11-08

[11] **3,061,859**
[13] C

[51] **Int.Cl. B65B 25/14 (2006.01) A47K 10/16 (2006.01) B65B 17/00 (2006.01) B65B 61/06 (2006.01) B65H 18/28 (2006.01) B65H 19/22 (2006.01) B65H 67/00 (2006.01) B65H 75/02 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR CONVERTING AND PACKAGING CORELESS PAPER PRODUCTS**

[54] **PROCEDES ET SYSTEMES POUR CONVERTIR ET EMBALLER DES PRODUITS DE PAPIER SANS NOYAU**

[72] TRAINER, NICHOLAS P., JR., US

[72] STAFFORD, THOMAS I., US

[72] BIGARI, RICHARD J., US

[73] GPCP IP HOLDINGS LLC, US

[86] (3061859)

[87] (3061859)

[22] 2013-05-08

[62] 2,815,412

[30] US (61/644,195) 2012-05-08

[11] **3,062,353**
[13] C

[51] **Int.Cl. E01H 5/06 (2006.01) B62D 5/06 (2006.01)**

[25] EN

[54] **BI-DIRECTIONAL TOWED SNOWPLOW AND METHOD OF PLOWING**

[54] **CHASSE-NEIGE REMORQUE BIDIRECTIONNEL ET METHODE D'ENLEVEMENT DE LA NEIGE**

[72] MANION, LEO P., CA

[72] MISHRA, AMIYA, CA

[72] REEVES, WILLIAM J., CA

[72] SIMPSON, GERALD N., CA

[73] CIVES CORPORATION, US

[86] (3062353)

[87] (3062353)

[22] 2015-06-11

[62] 2,894,111

[30] US (14/710,056) 2015-05-12

[11] **3,062,443**
[13] C

[51] **Int.Cl. A61L 27/38 (2006.01) A61F 2/08 (2006.01) A61F 2/28 (2006.01) A61K 35/32 (2015.01) A61L 27/28 (2006.01)**

[25] EN

[54] **METHOD OF TREATING TISSUE**

[54] **PROCEDE DE TRAITEMENT D'UN TISSU**

[72] SHIMP, LAWRENCE A., US

[72] WEI, GUOBAO, US

[72] BEHNAM, KEYVAN, US

[73] WARSAW ORTHOPEDIC, INC., US

[86] (3062443)

[87] (3062443)

[22] 2008-06-16

[62] 2,945,295

[30] US (60/944,408) 2007-06-15

[11] **3,062,608**
[13] C

[51] **Int.Cl. F16L 15/04 (2006.01) C10M 107/38 (2006.01) C10M 145/18 (2006.01) C10M 149/16 (2006.01) C23C 28/00 (2006.01) C25D 5/10 (2006.01) C25D 5/26 (2006.01) C25D 5/36 (2006.01) C25D 7/04 (2006.01) F16L 15/00 (2006.01) F16L 58/08 (2006.01)**

[25] EN

[54] **THREADED CONNECTION FOR PIPES OR TUBES AND METHOD FOR PRODUCING THE THREADED CONNECTION FOR PIPES OR TUBES**

[54] **RACCORD FILETE POUR TUYAUX OU TUBES ET PROCEDE DE PRODUCTION D'UN RACCORD FILETE POUR TUYAUX OU TUBES**

[72] GOTO, KUNIO, JP

[73] NIPPON STEEL CORPORATION, JP

[73] VALLOUREC OIL AND GAS FRANCE, FR

[85] 2019-11-06

[86] 2018-05-10 (PCT/JP2018/018221)

[87] (WO2018/216497)

[30] JP (2017-100607) 2017-05-22

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[11] **3,063,221**
[13] C

[51] **Int.Cl. H04W 56/00 (2009.01)**
[25] EN
[54] **TIMING METHOD FOR SYNCHRONIZATION SIGNAL BLOCK, AND RELATED PRODUCT**
[54] **PROCEDE DE SYNCHRONISATION DESTINE A UN BLOC DE SIGNAL DE SYNCHRONISATION, ET PRODUIT ASSOCIE**
[72] ZHANG, ZHI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-11-04
[86] 2017-05-04 (PCT/CN2017/083039)
[87] (WO2018/201391)

[11] **3,063,305**
[13] C

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **ATOMISER FOR VAPOUR PROVISION DEVICE**
[54] **ATOMISEUR POUR DISPOSITIF DE FOURNITURE DE VAPEUR**
[72] BUCHBERGER, HELMUT, AT
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2019-11-12
[86] 2018-05-15 (PCT/GB2018/051303)
[87] (WO2018/211252)
[30] GB (1707805.6) 2017-05-16

[11] **3,063,998**
[13] C

[51] **Int.Cl. E21B 17/16 (2006.01) E21B 7/06 (2006.01) E21B 7/08 (2006.01)**
[25] EN
[54] **VIBRATION REDUCING DRILL STRING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE TRAIN DE TIGES DE FORAGE REDUISANT LES VIBRATIONS**
[72] DZIEKONSKI, MITCHELL Z., US
[73] DZIEKONSKI, MITCHELL Z., US
[85] 2019-11-18
[86] 2018-05-18 (PCT/US2018/033513)
[87] (WO2018/213785)
[30] US (62/508,475) 2017-05-19
[30] US (15/982,368) 2018-05-17

[11] **3,064,965**
[13] C

[51] **Int.Cl. H04W 52/02 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE**
[54] **PROCEDE DE COMMUNICATION, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-11-26
[86] 2017-08-25 (PCT/CN2017/099164)
[87] (WO2019/037127)

[11] **3,064,969**
[13] C

[51] **Int.Cl. H04W 76/34 (2018.01)**
[25] EN
[54] **STATE SWITCHING METHOD, NETWORK DEVICE AND TERMINAL DEVICE**
[54] **PROCEDE DE COMMUTATION D'ETATS, DISPOSITIF DE RESEAU ET DISPOSITIF TERMINAL**
[72] YANG, NING, CN
[72] LIU, JIANHUA, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-11-26
[86] 2017-09-08 (PCT/CN2017/101037)
[87] (WO2019/047159)

[11] **3,064,988**
[13] C

[51] **Int.Cl. G06Q 10/02 (2012.01)**
[25] EN
[54] **MAXIMAL AVAILABILITY INVENTORY**
[54] **STOCK A DISPONIBILITE MAXIMALE**
[72] PELLERIN, FLORENT, FR
[72] LARDEUX, BENOIT, FR
[72] CHEINET, ANTOINE, FR
[72] MOUSLI, BRUNO, FR
[72] DELAHAYE, THIERRY, FR
[72] BOUDIA, MOURAD, FR
[72] BOSSERT, VINCENT, FR
[72] MOURGUES, FABIEN, FR
[73] AMADEUS S.A.S., FR
[85] 2019-11-26
[86] 2017-12-06 (PCT/EP2017/081624)
[87] (WO2018/224176)
[30] US (62/517,390) 2017-06-09

[11] **3,065,070**
[13] C

[51] **Int.Cl. C03C 13/02 (2006.01)**
[25] EN
[54] **HIGH-MODULUS GLASS FIBER COMPOSITION BASED ON BASALT**
[54] **COMPOSITION DE FIBRES DE VERRE A MODULE ELEVE A BASE DE BALSATE**
[72] TANG, ZHIYAO, CN
[72] HU, YUEWU, CN
[72] LI, YONGYAN, CN
[73] TAISHAN FIBERGLASS INC., CN
[85] 2019-12-13
[86] 2019-06-06 (PCT/CN2019/090241)
[87] (WO2020/007159)
[30] CN (201810711078.2) 2018-07-03

[11] **3,065,106**
[13] C

[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/127 (2006.01)**
[25] EN
[54] **ANNULAR BYPASS PACKER**
[54] **GARNITURE D'ETANCHEITE DE DERIVATION ANNULAIRE**
[72] POUNDS, STEVE ROBERT JR., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-11-26
[86] 2017-07-21 (PCT/US2017/043361)
[87] (WO2019/017973)

[11] **3,065,407**
[13] C

[51] **Int.Cl. H04L 25/02 (2006.01)**
[25] EN
[54] **PRE-DISTORTION PROCESSING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE TRAITEMENT DE PRE-DISTORSION**
[72] ANDREY, VOROBYEV, CN
[72] HONG, YIWEI, CN
[72] LI, TING, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-11-28
[86] 2017-05-31 (PCT/CN2017/086564)
[87] (WO2018/218487)

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[11] **3,065,441**
[13] C

- [51] **Int.Cl. A24F 40/00 (2020.01) A24F 40/42 (2020.01) A24D 3/06 (2006.01)**
[25] EN
[54] **ELECTRONIC CIGARETTE CARTRIDGE TUBE AND METHOD FOR PREPARING THE SAME**
[54] **TUBE DE CARTOUCHE DE CIGARETTES ELECTRONIQUES ET SON PROCEDE DE PREPARATION**
[72] HUANG, CHUN-HUANG, CN
[72] KUO, CHIEN-KUAN, CN
[73] GOLDEN ARROW PRINTING TECHNOLOGY (KUNSHAN) CO., LTD., CN
[86] (3065441)
[87] (3065441)
[22] 2019-12-17
[30] CN (2019107442265) 2019-08-13

[11] **3,065,597**
[13] C

- [51] **Int.Cl. E21B 47/14 (2006.01) E21B 47/00 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MONITORING SAND PRODUCTION THROUGH ACOUSTIC WIRELESS SENSOR NETWORK**
[54] **METHODE ET SYSTEME DE SURVEILLANCE D'UNE PRODUCTION DE SABLE AU MOYEN D'UN RESEAU DE CAPTEURS SANS FIL ACOUSTIQUES**
[72] HALL, TIMOTHY J., US
[72] YI, XIAOHUA, US
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[86] (3065597)
[87] (3065597)
[22] 2019-12-18
[30] US (62/782,160) 2018-12-19

[11] **3,065,937**
[13] C

- [51] **Int.Cl. C09K 8/26 (2006.01) C09K 8/28 (2006.01) C09K 8/38 (2006.01) C09K 8/584 (2006.01)**
[25] EN
[54] **ACIDIZING AND INTERFACIAL TENSION REDUCING HYDROLYSABLE OILS FOR SUBTERRANEAN TREATMENTS**
[54] **HUILES HYDROLYSABLES D'ACIDIFICATION ET DE REDUCTION DE LA TENSION INTERFACIALE POUR DES TRAITEMENTS SOUTERRAINS**
[72] HOLTSCRAW, JEREMY, US
[72] REYES, ENRIQUE ANTONIO, US
[72] RECIO, ANTONIO III, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-12-02
[86] 2017-07-28 (PCT/US2017/044361)
[87] (WO2019/022763)

[11] **3,066,163**
[13] C

- [51] **Int.Cl. F15B 13/16 (2006.01) B25J 3/04 (2006.01) B25J 17/00 (2006.01) B25J 19/02 (2006.01) F15B 13/14 (2006.01)**
[25] EN
[54] **CONTROL SYSTEM FOR AND METHOD OF OPERATING JOINTS**
[54] **SYSTEME DE COMMANDE D'ARTICULATIONS ET PROCEDE POUR LEUR FONCTIONNEMENT**
[72] TIPPETT, JONATHAN, CA
[73] TIPPETT, JONATHAN, CA
[85] 2019-11-17
[86] 2018-05-17 (PCT/CA2018/050583)
[87] (WO2018/209442)
[30] AU (2017901841) 2017-05-17

[11] **3,066,614**
[13] C

- [51] **Int.Cl. G09G 3/34 (2006.01) G02F 1/167 (2019.01)**
[25] EN
[54] **METHODS FOR DRIVING ELECTRO-OPTIC DISPLAYS**
[54] **PROCEDES DE COMMANDE D'AFFICHAGES ELECTRO-OPTIQUES**
[72] AMUNDSON, KARL RAYMOND, US
[72] APREA, MATTHEW J., US
[72] CROUNSE, KENNETH R., US
[72] HARRINGTON, DEMETRIOS MARK, US
[72] LIN, JASON, US
[72] SJODIN, THEODORE A., US
[72] SU, CHIA-CHEN, US
[73] E INK CORPORATION, US
[86] (3066614)
[87] (3066614)
[22] 2013-01-31
[62] 2,946,099
[30] US (61/593,361) 2012-02-01

[11] **3,066,708**
[13] C

- [51] **Int.Cl. B01L 9/00 (2006.01) B01L 3/00 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **LIQUID SAMPLE LOADING**
[54] **CHARGEMENT D'ECHANTILLON LIQUIDE**
[72] DREWS, BRADLEY KENT, US
[72] STENGEL, GUDRUN, US
[72] BLAKE, JAMES CHRISTOPHER, US
[72] AHAMED, MOHAMMED KAFEEL, US
[72] BECKER, MICHAEL STEVEN, US
[72] DANGELO, MICHAEL, US
[72] NIBBE, MARK J., US
[72] FULLER, DANIEL L., GB
[72] MILLER, OLIVER JON, GB
[73] ILLUMINA, INC., US
[73] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2019-12-06
[86] 2018-09-11 (PCT/US2018/050410)
[87] (WO2019/067199)
[30] US (62/564,466) 2017-09-28

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[11] **3,066,984**
[13] C

[51] **Int.Cl. A61F 13/08 (2006.01) A61F 13/00 (2006.01) F03G 7/06 (2006.01)**
[25] EN
[54] **CONTRACTIBLE BAND FOR USE IN A WEARABLE GARMENT COMPRISING A SHAPE MEMORY MATERIAL PART**
[54] **BANDE CONTRACTILE DESTINEE A ETRE UTILISEE DANS UN VETEMENT POUVANT ETRE PORTE COMPRENANT UNE PARTIE DE MATERIAU A MEMOIRE DE FORME**
[72] ALVES DA COSTA GONCALVES, CARLOS DIOGO, PT
[72] FERREIRA SIMOES, RICARDO JOAO, PT
[72] TEIXEIRA DE BARROS FERREIRA DA SILVA, ALEXANDRE MANUEL, PT
[72] DE CARVALHO GOMES, JOAO MANUEL, PT
[73] CENTITVC- CENTRO DE NANOTECNOLOGIA E MATERIAIS TECNICOS, FUNCIONAIS E INTELIGENTES, PT
[73] UNIVERSIDADE DO MINHO, PT
[73] IPCA - INSTITUTO POLITECNICO DO CAVADO E AVE, PT
[85] 2019-12-11
[86] 2018-06-11 (PCT/IB2018/054216)
[87] (WO2018/229635)
[30] EP (17175389.0) 2017-06-11
[30] PT (110140) 2017-06-12
[30] EP (18152851.4) 2018-01-22

[11] **3,067,029**
[13] C

[51] **Int.Cl. G01N 35/08 (2006.01) G01N 35/02 (2006.01) G01N 37/00 (2006.01)**
[25] EN
[54] **FLUID CACHING**
[54] **MISE EN CACHE DE FLUIDE**
[72] COX-MURANAMI, WESLEY, US
[72] SEGALE, DARREN ROBERT, US
[72] MILLER, OLIVER JON, GB
[72] FOLEY, JENNIFER OLIVIA, US
[72] KHURANA, TARUN KUMAR, US
[72] CRIVELLI, PAUL, US
[72] WATTS, GARY, US
[73] ILLUMINA, INC., US
[73] ILLUMINA CAMBRIDGE LIMITED, GB
[85] 2019-12-05
[86] 2019-01-10 (PCT/US2019/013002)
[87] (WO2019/147419)
[30] US (62/621,270) 2018-01-24

[11] **3,067,246**
[13] C

[51] **Int.Cl. G01R 33/035 (2006.01) G01R 33/12 (2006.01)**
[25] EN
[54] **GRADIOMETRIC FLUX QUBIT SYSTEM**
[54] **SYSTEME DE QUBIT DE FLUX GRADIOMETRIQUE**
[72] PRZYBYSZ, ANTHONY JOSEPH, US
[72] FERGUSON, DAVID GEORGE, US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2019-12-12
[86] 2018-07-02 (PCT/US2018/040611)
[87] (WO2019/014011)
[30] US (15/645,736) 2017-07-10

[11] **3,067,627**
[13] C

[51] **Int.Cl. B26D 7/26 (2006.01) B26D 1/36 (2006.01) B26D 3/28 (2006.01) B26D 7/27 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MEASURING AND ADJUSTING GATE OPENINGS OF SLICING MACHINES**
[54] **SYSTEMES ET PROCEDES DE MESURE ET D'AJUSTEMENT D'OUVERTURES DE PORTE DE MACHINES A TRANCHER**
[72] BANOWETZ, DANIEL LAWRENCE, US
[73] URSCHTEL LABORATORIES, INC., US
[85] 2019-12-16
[86] 2019-04-25 (PCT/US2019/029122)
[87] (WO2019/210060)
[30] US (62/662,289) 2018-04-25

[11] **3,067,673**
[13] C

[51] **Int.Cl. G01N 1/30 (2006.01) G01N 1/31 (2006.01)**
[25] EN
[54] **PATHOLOGY ASSEMBLY**
[54] **ENSEMBLE DE PATHOLOGIE**
[72] SIEVERT, MARIA, DE
[72] SIEVERT, DOMINIK, DE
[73] INVEOX GMBH, DE
[85] 2019-12-17
[86] 2018-06-19 (PCT/EP2018/066257)
[87] (WO2018/234307)
[30] EP (17176690.0) 2017-06-19

[11] **3,067,710**
[13] C

[51] **Int.Cl. H01R 4/02 (2006.01) B23K 11/20 (2006.01) B23K 11/34 (2006.01) H01R 4/62 (2006.01)**
[25] EN
[54] **RESISTANCE WELDING FASTENER, APPARATUS AND METHODS**
[54] **ELEMENT DE FIXATION A SOUDAGE PAR RESISTANCE, APPAREIL ET PROCEDES**
[72] SPINELLA, DONALD J., US
[72] BERGSTROM, DANIEL, US
[73] HOWMET AEROSPACE INC., US
[86] (3067710)
[87] (3067710)
[22] 2015-02-02
[62] 2,938,420
[30] US (61/934,951) 2014-02-03

[11] **3,067,967**
[13] C

[51] **Int.Cl. C01B 13/11 (2006.01) H02M 1/42 (2007.01) H02M 1/12 (2006.01) H02M 7/44 (2006.01)**
[25] EN
[54] **OZONE GENERATION DEVICE AND POWER SUPPLY FOR OZONE GENERATION DEVICE**
[54] **DISPOSITIF DE GENERATION D'OZONE ET ALIMENTATION ELECTRIQUE POUR DISPOSITIF DE GENERATION D'OZONE**
[72] MURATA, TAKAAKI, JP
[72] OKITA, YUJI, JP
[72] HASHIMOTO, MICHIKO, JP
[72] KUBO, KIE, JP
[72] MOCHIKAWA, HIROSHI, JP
[73] KABUSHIKI KAISHA TOSHIBA, JP
[73] TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION, JP
[85] 2019-12-19
[86] 2017-09-19 (PCT/JP2017/033782)
[87] (WO2018/235307)
[30] JP (2017-122223) 2017-06-22

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[11] **3,068,032**
[13] C

- [51] **Int.Cl. B61H 13/00 (2006.01) B60T 7/12 (2006.01) B60T 15/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VEHICLE BRAKING CONTROL**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE FREINAGE DU VEHICULE**
[72] SZKLAR, OLEH, US
[73] CATTRON NORTH AMERICA, INC., US
[86] (3068032)
[87] (3068032)
[22] 2020-01-15
[30] US (62/793,252) 2019-01-16
[30] US (62/816,622) 2019-03-11
[30] US (16/508,557) 2019-07-11

[11] **3,068,074**
[13] C

- [51] **Int.Cl. G05B 23/02 (2006.01) B64F 5/60 (2017.01) B64D 13/04 (2006.01)**
[25] EN
[54] **TEST PLATFORM FOR EMBEDDED CONTROL SYSTEM**
[54] **PLATE-FORME D'ESSAI POUR SYSTEME DE COMMANDE INTEGRE**
[72] PIROG, DANIEL, CA
[72] WELCH, TIMOTHY, CA
[73] AVERSAN INC., CA
[85] 2019-12-20
[86] 2018-07-12 (PCT/CA2018/050854)
[87] (WO2019/010581)
[30] US (62/531,992) 2017-07-13

[11] **3,069,343**
[13] C

- [51] **Int.Cl. B64C 13/50 (2006.01) F16H 19/02 (2006.01) F16H 21/12 (2006.01) F16H 21/16 (2006.01)**
[25] EN
[54] **AIRCRAFT STEERING SYSTEM INCLUDING ELECTROMECHANICAL ACTUATOR**
[54] **SYSTEME DE DIRECTION D'AERONEF EQUIPE D'UN ACTIONNEUR ELECTROMECHANIQUE**
[72] MIYAZONO, KOHEI, JP
[72] NISHIYAMA, YOJI, JP
[72] SUGIURA, HIDEYUKI, JP
[73] KAWASAKI JUKOGYO KABUSHIKI KAISHA, JP
[85] 2020-01-07
[86] 2018-07-17 (PCT/JP2018/026700)
[87] (WO2019/017325)
[30] JP (2017-139156) 2017-07-18

[11] **3,069,404**
[13] C

- [51] **Int.Cl. A23K 10/16 (2016.01) A23K 50/10 (2016.01)**
[25] EN
[54] **FEED ADDITIVE COMPRISING BACILLUS SUBTILIS AND BACILLUS LICHENIFORMIS, A FEED COMPOSITION COMPRISING THE FEED ADDITIVE AND A METHOD FOR PRODUCING THE FEED ADDITIVE**
[54] **ADDITIF ALIMENTAIRE COMPRENANT BACILLUS SUBTILIS ET BACILLUS LICHENIFORMIS, COMPOSITION ALIMENTAIRE COMPRENANT UN ADDITIF ALIMENTAIRE ET METHODE DE FABRICATION DE L'ADDITIF ALIMENTAIRE**
[72] OH, EUN SEON, KR
[72] KIM, YU JIN, KR
[72] PARK, MIN AH, KR
[72] WOO, SEO HYUNG, KR
[73] CJ CHEILJEDANG CORPORATION, KR
[85] 2020-01-08
[86] 2017-08-04 (PCT/KR2017/008446)
[87] (WO2019/013382)
[30] KR (10-2017-0088646) 2017-07-12

[11] **3,069,430**
[13] C

- [51] **Int.Cl. A23K 50/10 (2016.01) A23K 20/20 (2016.01)**
[25] EN
[54] **METHOD AND COMPOSITION TO CONTROL RUMEN RELEASE OF COBALT TO RUMEN BACTERIA FOR MAKING VITAMIN B12**
[54] **PROCEDE ET COMPOSITION POUR REGULER LA LIBERATION DE COBALT DANS LE RUMEN POUR LES BACTERIES DE RUMEN POUR LA FABRICATION DE VITAMINE B12**
[72] STARK, PETER A., US
[73] ZINPRO CORPORATION, US
[85] 2020-01-08
[86] 2018-06-28 (PCT/US2018/039950)
[87] (WO2019/013984)
[30] US (15/647,944) 2017-07-12

[11] **3,070,356**
[13] C

- [51] **Int.Cl. B64C 11/46 (2006.01) A63H 27/127 (2006.01) A63H 27/18 (2006.01) B64C 27/08 (2006.01) B64C 29/02 (2006.01) B64C 39/08 (2006.01) B64C 39/10 (2006.01)**
[25] EN
[54] **ASYMMETRIC AERIAL VEHICLE**
[54] **VEHICULE AERIEN ASYMETRIQUE**
[72] CHAN, KEEN IAN, SG
[73] ST ENGINEERING AEROSPACE LTD., SG
[85] 2020-01-17
[86] 2017-07-18 (PCT/SG2017/050356)
[87] (WO2019/017833)

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[11] **3,070,525**
[13] C

[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/519 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**

[25] EN

[54] **COMPOUND AS ACC INHIBITOR AND USE THEREOF**

[54] **COMPOSE UTILISE EN TANT QU'INHIBITEUR D'ACC ET UTILISATION ASSOCIEE**

[72] WANG, YONG, CN
[72] ZHAO, LIWEN, CN
[72] WANG, YAZHOU, CN
[72] QUAN, XU, CN
[72] JIANG, CHUNHUAN, CN
[72] CHEN, HONGYAN, CN
[72] CHEN, MENGHUA, CN
[72] LI, CHAO, CN
[72] LIAO, YEXIN, CN
[72] LIU, QI, CN
[72] WANG, CHEN, CN
[72] WANG, HAI, CN
[72] YANG, SHENGWEI, CN
[72] ZHENG, GUOCHUANG, CN
[73] NANJING SANHOME PHARMACEUTICAL CO., LTD., CN
[85] 2020-01-20
[86] 2018-07-25 (PCT/CN2018/096930)
[87] (WO2019/020041)
[30] CN (201710616033.2) 2017-07-26

[11] **3,070,565**
[13] C

[51] **Int.Cl. E21B 43/24 (2006.01) C02F 5/08 (2006.01)**

[25] EN

[54] **CATIONIC STARCH-BASED ADDITIVES FOR REDUCTION OF FOULING IN WATER COOLERS IN SAGD PRODUCTION SYSTEMS**

[54] **ADDITIFS CATIONIQUES A BASE D'AMIDON POUR LA REDUCTION DE L'ENCRASSEMENT DANS DES REFROIDISSEURS D'EAU DANS DES SYSTEMES DE PRODUCTION SAGD**

[72] PERLA, CARLA, US
[72] DIAZ, CARLOS, US
[72] HORNE, BRUCE OYER, US
[72] OSNESS, KEITH, US
[72] SARTORI, LARRY, CA
[72] BARBU, VICTOR, CA
[72] LEDESMA, TOMASA, US
[72] FRANCA, LEONARDO, US
[72] JONES, COLE T., US
[73] BAKER HUGHES HOLDINGS LLC, US
[85] 2020-01-20
[86] 2017-07-25 (PCT/US2017/043646)
[87] (WO2019/022713)

[11] **3,070,647**
[13] C

[51] **Int.Cl. E21B 47/01 (2012.01) E21B 47/017 (2012.01) E21B 41/00 (2006.01) H05K 7/02 (2006.01)**

[25] EN

[54] **CIRCUIT BOARD MOUNTING IN CONFINED SPACE**

[54] **MONTAGE DE CARTE DE CIRCUITS IMPRIMES DANS UN ESPACE CLOS**

[72] NGUYEN, MINH DANG, SG
[72] PRAKASH, ANAND, US
[72] NG, HEEN WEI, SG
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (3070647)
[87] (3070647)
[22] 2020-01-31
[30] US (16/601,253) 2019-10-14

[11] **3,070,888**
[13] C

[51] **Int.Cl. H04W 72/02 (2009.01) H04W 8/14 (2009.01)**

[25] EN

[54] **METHOD FOR DEVICE-TO-DEVICE COMMUNICATION, TERMINAL DEVICE, AND NETWORK DEVICE**

[54] **PROCEDE DE COMMUNICATION DE DISPOSITIF A DISPOSITIF, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**

[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-01-23
[86] 2017-08-04 (PCT/CN2017/095949)
[87] (WO2019/024069)

[11] **3,071,715**
[13] C

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

[25] EN

[54] **APPARATUS AND METHODS FOR TONG OPERATION**

[54] **APPAREIL ET PROCEDES POUR LE FONCTIONNEMENT DE PINCE**

[72] ZIMBELMANN, GEORG, DE
[72] CLASEN, DITMAR, DE
[72] THIEMANN, BJOERN, DE
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2020-01-29
[86] 2018-08-14 (PCT/US2018/046736)
[87] (WO2019/040325)
[30] US (15/682,427) 2017-08-21

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[11] **3,071,905**
[13] C

[51] **Int.Cl. A61C 5/42 (2017.01) C21D 9/00 (2006.01) C22F 1/00 (2006.01) C22F 1/08 (2006.01)**

[25] EN

[54] **ENDODONTIC INSTRUMENTS AND METHODS OF MANUFACTURING THEREOF**

[54] **INSTRUMENTS D'ENDODONTIE ET LEURS PROCEDES DE FABRICATION**

[72] AMMON, DAN, US

[72] SHOTTON, VINCENT, US

[72] GAO, YONG, US

[72] MAXWELL, RANDALL, US

[73] DENTSPLY INTERNATIONAL INC., US

[86] (3071905)

[87] (3071905)

[22] 2012-11-16

[62] 2,856,275

[30] US (13/300,506) 2011-11-18

[11] **3,071,907**
[13] C

[51] **Int.Cl. E02F 3/88 (2006.01) E02F 3/92 (2006.01)**

[25] EN

[54] **HYDRO EXCAVATION VACUUM APPARATUS**

[54] **APPAREIL D'ASPIRATION PAR HYDROEXCAVATION**

[72] ASKELSEN, TAYTE, US

[72] STROBEL, ANDY, US

[72] LANOUE, COREY, US

[72] HOFLAND, DANIEL, US

[72] BATES, ADAM, US

[72] GIFT, DAVID, US

[72] SKINNER, JAMES W., US

[72] MEYER, NATHAN J., US

[73] VERMEER MANUFACTURING COMPANY, US

[86] (3071907)

[87] (3071907)

[22] 2018-07-13

[62] 3,011,229

[30] US (62/532853) 2017-07-14

[11] **3,071,980**
[13] C

[51] **Int.Cl. C09D 201/00 (2006.01) C09D 7/45 (2018.01) C09D 5/02 (2006.01) C09D 177/00 (2006.01)**

[25] EN

[54] **ANTI-SETTLING AGENT COMPOSITION FOR AQUEOUS PAINT**

[54] **COMPOSITION D'AGENT ANTI-SEDIMENTATION POUR MATERIAUX DE REVETEMENT AQUEUX**

[72] UBUKATA, MAKOTO, JP

[72] NISHIYAMA, HIRONORI, JP

[72] SAITO, TOSHIKI, JP

[73] KUSUMOTO CHEMICALS, LTD., JP

[85] 2020-02-03

[86] 2018-10-19 (PCT/JP2018/039016)

[87] (WO2019/078360)

[30] JP (2017-204061) 2017-10-20

[11] **3,072,438**
[13] C

[51] **Int.Cl. B01J 38/52 (2006.01) B01J 21/20 (2006.01) C01F 7/46 (2006.01)**

[25] EN

[54] **NON-DESTRUCTIVE PROCESS FOR REMOVING METALS, METAL IONS AND METAL OXIDES FROM ALUMINA-BASED MATERIALS**

[54] **PROCEDE NON DESTRUCTEUR POUR ELIMINER DES METAUX, DES IONS METALLIQUES ET DES OXYDES METALLIQUES DE MATERIAUX A BASE D'ALUMINE**

[72] PEREZ ROMO, PATRICIA, MX

[72] AGUILAR BARRERA, CANDIDO, MX

[72] NAVARRETE BOLANOS, JUAN, MX

[72] REYES ROBLES, SANTOS GLORINDO, MX

[73] INSTITUTO MEXICANO DEL PETROLEO, MX

[85] 2020-02-07

[86] 2018-07-27 (PCT/MX2018/050017)

[87] (WO2019/039930)

[30] MX (MX/a/2017/010801) 2017-08-23

[11] **3,073,000**
[13] C

[51] **Int.Cl. G01L 11/02 (2006.01) G01L 1/24 (2006.01) G02B 6/02 (2006.01)**

[25] EN

[54] **A METHOD FOR FORMING A PRESSURE SENSOR**

[54] **PROCEDE DE FORMATION D'UN CAPTEUR DE PRESSION**

[72] DOYLE, CRISPIN, GB

[72] HAVERMANN, DIRK, GB

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2020-02-13

[86] 2018-11-13 (PCT/GB2018/053268)

[87] (WO2019/097213)

[30] GB (1719132.1) 2017-11-20

[11] **3,073,043**
[13] C

[51] **Int.Cl. H04L 67/55 (2022.01)**

[25] EN

[54] **METHOD AND DEVICE FOR RESPONDING TO A QUERY**

[54] **PROCEDE ET DISPOSITIF DE REPONSE A UNE REQUETE**

[72] PROCTOR, LEE M., US

[73] MOTOROLA SOLUTIONS, INC., US

[85] 2020-02-13

[86] 2018-08-29 (PCT/US2018/048481)

[87] (WO2019/055212)

[30] US (15/701,474) 2017-09-12

[11] **3,074,115**
[13] C

[51] **Int.Cl. G01R 27/32 (2006.01) G01R 31/28 (2006.01)**

[25] EN

[54] **MEASUREMENT SYSTEM AND CALIBRATION METHOD WITH WIDEBAND MODULATION**

[54] **SYSTEME DE MESURE ET PROCEDE D'ETALONNAGE AVEC MODULATION A LARGE BANDE**

[72] SIMPSON, GARY R., US

[72] PADMANABHAN, SATHYA, US

[72] DUDKIEWICZ, STEVEN M., US

[72] BUBER, M. TEKAMUL, US

[72] ESPOSITO, GIAMPIERO, US

[73] MAURY MICROWAVE, INC., US

[85] 2020-02-26

[86] 2018-09-07 (PCT/US2018/050062)

[87] (WO2019/051300)

[30] US (62/556,256) 2017-09-08

[30] US (62/559,455) 2017-09-15

[30] US (62/561,618) 2017-09-21

[30] US (16/115,158) 2018-08-28

**Canadian Patents Issued
March 15, 2022**

[11] **3,075,048**
[13] C

[51] **Int.Cl. B65G 23/04 (2006.01) B65G 15/00 (2006.01) B65G 23/06 (2006.01) B65G 23/22 (2006.01)**

[25] EN

[54] **DRIVE SYSTEM FOR PADDLE BELT CONVEYOR**

[54] **SYSTEME D'ENTRAINEMENT DESTINE A UN TRANSPORTEUR A COURROIE SEGMENTEE**

[72] JOHNSON, ZACHARY, CA
[72] KLASSEN, RONALD, CA
[73] AG GROWTH INTERNATIONAL INC., CA

[86] (3075048)
[87] (3075048)
[22] 2017-12-18
[62] 2,989,229
[30] US (62/436,170) 2016-12-19

[11] **3,075,155**
[13] C

[51] **Int.Cl. B65D 21/02 (2006.01) A45C 5/03 (2006.01) B62B 3/14 (2006.01)**

[25] EN

[54] **UTILITY ASSEMBLY AND CONNECTIVITY SYSTEM THEREFORE**

[54] **ENSEMBLE DE SERVICE ET SYSTEME DE CONNECTIVITE**

[72] BRUNNER, YARON, IL
[72] BOUGAY, AYALA VARDI, IL
[72] HETZRONI, OREN, IL
[73] KETER PLASTIC LTD., IL

[86] (3075155)
[87] (3075155)
[22] 2020-03-10
[30] IL (271995) 2020-01-12

[11] **3,075,573**
[13] C

[51] **Int.Cl. G07C 11/00 (2006.01) G06F 21/32 (2013.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR USER ENROLLMENT IN A SECURE BIOMETRIC VERIFICATION SYSTEM**

[54] **SYSTEME ET PROCEDE POUR SOUMETTRE UN UTILISATEUR A UN SYSTEME SECURISE DE VERIFICATION BIOMETRIQUE**

[72] CORNICK, KENNETH, US
[72] SEIDMAN BECKER, CARYN, US

[73] ALCLEAR, LLC, US

[86] (3075573)
[87] (3075573)
[22] 2012-05-15
[62] 2,840,171
[30] US (61/502,453) 2011-06-29

[11] **3,075,593**
[13] C

[51] **Int.Cl. B60B 39/02 (2006.01) B60B 39/08 (2006.01) B61C 15/10 (2006.01)**

[25] EN

[54] **GRIT DISPENSING DEVICE FOR RAIL VEHICLES**

[54] **DISPOSITIF DE DISTRIBUTION D'EPANDAGE POUR VEHICULES FERROVIAIRES**

[72] ALTENBEREND, MARTIN, DE
[72] VOIGT, MARCEL, DE
[73] HANNING & KAHL GMBH & CO. KG, DE

[85] 2020-03-11
[86] 2018-12-17 (PCT/EP2018/085304)
[87] (WO2019/121563)
[30] DE (20 2017 107 772.1) 2017-12-20

[11] **3,075,923**
[13] C

[51] **Int.Cl. G01N 1/22 (2006.01) G01N 1/24 (2006.01) G01N 33/22 (2006.01)**

[25] EN

[54] **SHALE GAS EXTRACTING DEVICE AND EXTRACTING METHOD THEREFOR**

[54] **DISPOSITIF D'EXTRACTION DE GAZ DE SCHISTE ET PROCEDE D'EXTRACTION ASSOCIE**

[72] CHOI, JIYOUNG, KR
[72] KIM, JI-HOON, KR
[72] LEE, JOO YONG, KR

[73] KOREA INSTITUTE OF GEOSCIENCE AND MINERAL RESOURCES, KR

[85] 2020-03-13
[86] 2018-09-12 (PCT/KR2018/010669)
[87] (WO2019/054738)
[30] KR (10-2017-0118863) 2017-09-15

[11] **3,076,074**
[13] C

[51] **Int.Cl. A22B 5/20 (2006.01) A22B 5/00 (2006.01)**

[25] EN

[54] **BEEF SPLITTING METHOD AND SYSTEM**

[54] **SYSTEME ET PROCEDE DE FENDAGE DE BOEUF**

[72] DRISCOLL, DANIEL, US
[73] JARVIS PRODUCTS CORPORATION, US

[86] (3076074)
[87] (3076074)
[22] 2017-10-25
[62] 3,037,045
[30] US (62/414,240) 2016-10-28
[30] US (62/520,143) 2017-06-15
[30] US (15/663,097) 2017-07-28

Brevets canadiens délivrés
15 mars 2022

[11] **3,076,178**
[13] C

[51] **Int.Cl. F23C 13/08 (2006.01) B01J 29/12 (2006.01) C01B 39/22 (2006.01) F23D 14/18 (2006.01)**

[25] EN

[54] **HEAT SOURCE DEVICE AND METHOD FOR USING SILVER ZEOLITE**

[54] **DISPOSITIF SOURCE DE CHALEUR ET PROCEDE D'UTILISATION DE ZEOLITE D'ARGENT**

[72] KOBAYASHI, TOSHIKI, JP
[72] ENDO, KOJI, JP
[73] RASA INDUSTRIES, LTD., JP
[85] 2020-03-17
[86] 2018-10-05 (PCT/JP2018/037335)
[87] (WO2019/070049)
[30] JP (2017-194877) 2017-10-05

[11] **3,076,704**
[13] C

[51] **Int.Cl. A47L 13/22 (2006.01) A47L 1/08 (2006.01) A47L 13/12 (2006.01) A47L 13/512 (2006.01) B25G 1/04 (2006.01) B25G 3/00 (2006.01)**

[25] EN

[54] **TOOL ASSEMBLY COMPRISING UNIVERSAL HANDLE AND INTERCHANGEABLE TOOL HEADS**

[54] **ENSEMBLE OUTIL COMPRENANT UN MANCHE UNIVERSEL ET DES TETES D'OUTIL INTERCHANGEABLES**

[72] BALZ, ERIC R., US
[72] GINGRAS, ERIC, US
[72] LATIMER, SCOTT, US
[72] FINISON, JEREMY B., US
[72] ANDERSON, DAN, US
[72] GILBERTSON, SARAH, US
[73] ECOLAB USA INC., US
[86] (3076704)
[87] (3076704)
[22] 2016-01-15
[62] 2,973,121
[30] US (62/104,173) 2015-01-16

[11] **3,077,244**
[13] C

[51] **Int.Cl. A61M 13/00 (2006.01) A61M 1/28 (2006.01) A61M 1/36 (2006.01)**

[25] EN

[54] **AGITATION APPARATUS**

[54] **APPAREIL D'AGITATION**

[72] ALBALAT, ALBERTO MARTINEZ, ES

[73] BIOSURGICAL S.L., ES
[86] (3077244)
[87] (3077244)
[22] 2013-11-07
[62] 2,889,371
[30] GB (1220306.3) 2012-11-12

[11] **3,077,783**
[13] C

[51] **Int.Cl. B23K 11/31 (2006.01)**

[25] EN

[54] **SINGLE SIDE HEATING APPARATUS**

[54] **APPAREIL DE CHAUFFAGE A SORTIE UNIQUE**

[72] IWAMOTO, YOSHIKI, JP
[72] SAEKI, SHUHEI, JP
[73] DENGENSHA TOA CO., LTD., JP
[85] 2020-03-18
[86] 2019-06-28 (PCT/JP2019/025844)
[87] (WO2020/225927)
[30] JP (2019-087258) 2019-05-07

[11] **3,078,098**
[13] C

[51] **Int.Cl. A61M 5/31 (2006.01) A61F 9/007 (2006.01) A61M 5/315 (2006.01)**

[25] EN

[54] **INTRAOCULAR GAS INJECTOR**

[54] **INJECTEUR DE GAZ INTRA-OCULAIRE**

[72] AULD, JACK R., US
[72] HUCULAK, JOHN C., US
[72] MCCOLLAM, CHRISTOPHER L., US
[73] ALCON INC., CH
[86] (3078098)
[87] (3078098)
[22] 2013-06-12
[62] 2,876,077
[30] US (61/658,765) 2012-06-12
[30] US (61/799,840) 2013-03-15

[11] **3,078,099**
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01) A61F 9/007 (2006.01) A61M 5/31 (2006.01)**

[25] EN

[54] **INTRAOCULAR GAS INJECTOR**

[54] **INJECTEUR DE GAZ INTRA-OCULAIRE**

[72] AULD, JACK R., US
[72] HUCULAK, JOHN C., US
[72] MCCOLLAM, CHRISTOPHER L., US
[73] ALCON INC., CH
[86] (3078099)
[87] (3078099)
[22] 2013-06-12
[62] 2,876,077
[30] US (61/658,765) 2012-06-12
[30] US (61/799,840) 2013-03-15

[11] **3,078,293**
[13] C

[51] **Int.Cl. A43B 7/08 (2022.01) B29D 35/14 (2010.01)**

[25] EN

[54] **METHOD FOR PRODUCING A SHOE WITH AN AIR PUMP DEVICE, COMPRISING A BELLOWS WHICH IS FORMED IN A MIDSOLE**

[54] **PROCEDE DE FABRICATION D'UNE CHAUSSURE COMPRENANT UN DISPOSITIF DE POMPE A AIR AVEC UN SOUFFLET FORME DANS UNE SEMELLE INTERMEDIAIRE**

[72] MOHLMANN, WILHELM, CH
[72] SCHMIDT, JENS, DE
[73] ATMOS AIRWALK AG, CH
[85] 2020-04-02
[86] 2018-09-03 (PCT/EP2018/073636)
[87] (WO2019/068403)
[30] EP (17194421.8) 2017-10-02

**Canadian Patents Issued
March 15, 2022**

[11] **3,078,444**
[13] C

[51] **Int.Cl. E21B 17/00 (2006.01) E21B 41/02 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **WELLBORE PLUNGERS WITH NON-METALLIC TUBING-CONTACTING SURFACES AND WELLS INCLUDING THE WELLBORE PLUNGERS**

[54] **PLONGEURS DE PUIITS DE FORAGE A SURFACES DE CONTACT DE TUBAGES NON-METALLIQUES, ET PUIITS COMPRENANT LES PLONGEURS DE PUIITS DE FORAGE**

[72] FLOWERS, DANIEL R., AR

[72] BERMEA, ANTHONY J., US

[72] ROMER, MICHAEL C., US

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[85] 2020-04-03

[86] 2018-07-10 (PCT/US2018/041447)

[87] (WO2019/070323)

[30] US (62/568,109) 2017-10-04

[30] US (62/588,728) 2017-11-20

[11] **3,079,584**
[13] C

[51] **Int.Cl. C04B 35/657 (2006.01) A61C 5/73 (2017.01) A61C 5/77 (2017.01) A61K 6/78 (2020.01) A61K 6/802 (2020.01) A61K 6/807 (2020.01) A61K 6/818 (2020.01) A61K 6/822 (2020.01) A61K 6/824 (2020.01) A61C 13/00 (2006.01) A61C 13/083 (2006.01) A61C 13/09 (2006.01) B28B 13/02 (2006.01) B28B 17/00 (2006.01) B28B 19/00 (2006.01) C04B 35/03 (2006.01) C04B 35/505 (2006.01)**

[25] EN

[54] **BLANK AND DENTAL RESTORATION**

[54] **EBAUCHE ET RESTAURATION DENTAIRE**

[72] VOLKL, LOTHAR, DE

[72] FECHER, STEFAN, DE

[72] KUTZNER, MARTIN, DE

[72] OEFNER, TANJA, DE

[73] DENTSPLY SIRONA INC., US

[73] DEGUDENT GMBH, DE

[86] (3079584)

[87] (3079584)

[22] 2016-12-23

[62] 3,007,607

[30] DE (10 2015 122 861.0) 2015-12-28

[11] **3,079,710**
[13] C

[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/241 (2006.01)**

[25] EN

[54] **SOLVENT ENHANCED SAGD WITH REDUCED STEAM AND VARIABLE SOLVENT-TO-STEAM RATIO**

[54] **DRAINAGE PAR GRAVITE AU MOYEN DE VAPEUR (DGMV) ASSISTE PAR SOLVANT AVEC CONSOMMATION REDUITE DE VAPEUR ET UN RAPPORT DE SOLVANT A VAPEUR VARIABLE**

[72] WU, MICHAEL, CA

[72] KHATRI, NAND, CA

[72] ZHAO, LITONG, CA

[72] YOUCK, DARYL, CA

[73] CANADIAN NATURAL RESOURCES LIMITED, CA

[86] (3079710)

[87] (3079710)

[22] 2020-04-27

[30] US (62/841,994) 2019-05-02

[11] **3,080,063**
[13] C

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

[25] EN

[54] **DELTA-LIKE LIGAND 1 FOR DIAGNOSING SEVERE INFECTIONS**

[54] **LIGAND DE TYPE DELTA 1 DESTINE A DIAGNOSTIQUER DES INFECTIONS GRAVES**

[72] HILDEBRAND, DAGMAR, DE

[72] HEEG, KLAUS, DE

[72] UHLE, FLORIAN, DE

[72] WEIGAND, MARKUS, DE

[73] UNIVERSITAET HEIDELBERG, DE

[85] 2020-04-23

[86] 2018-10-25 (PCT/EP2018/079273)

[87] (WO2019/081636)

[30] EP (17198330.7) 2017-10-25

[11] **3,080,358**
[13] C

[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

[73] GUANGDONG KIN LONG HARDWARE PRODUCTS CO., LTD., CN

[86] (3080358)

[87] (3080358)

[22] 2020-05-06

[30] CN (201911268595.8) 2019-12-11

[11] **3,080,383**
[13] C

[51] **Int.Cl. E04H 4/16 (2006.01) B04C 5/08 (2006.01)**

[25] EN

[54] **SWIMMING POOL CLEANER WITH HYDROCYCLONIC PARTICLE SEPARATOR AND/OR SIX-ROLLER DRIVE SYSTEM**

[54] **NETTOYEUR DE PISCINE AVEC SEPARATEUR DE PARTICULES HYDROCYCLONIQUE ET/OU SYSTEME D'ENTRAINEMENT A SIX ROULEAUX**

[72] HAYES, GRAHAM M., US

[72] TEUSCHER, SCOTT, US

[72] MARCIANO, EDWARD LAWRENCE, US

[73] HAYWARD INDUSTRIES, INC., US

[86] (3080383)

[87] (3080383)

[22] 2016-01-26

[62] 2,973,369

[30] US (62/107,565) 2015-01-26

Brevets canadiens délivrés
15 mars 2022

[11] **3,085,777**
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) G06T 7/30 (2017.01) A61B 5/06 (2006.01) A61B 8/12 (2006.01) A61B 8/13 (2006.01) A61M 5/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IMPROVED VISUALIZATION DURING MINIMALLY INVASIVE PROCEDURES**

[54] **SYSTEMES ET PROCEDES POUR AMELIORER LA VISUALISATION LORS D'INTERVENTIONS MINIMALEMENT INVASIVES**

[72] COURTNEY, BRIAN, CA
[72] THIND, AMANDEEP, CA
[73] CONAVI MEDICAL INC., CA
[86] (3085777)
[87] (3085777)
[22] 2011-11-08
[62] 2,815,580
[30] US (61/411,225) 2010-11-08

[11] **3,086,104**
[13] C

[51] **Int.Cl. C23F 14/00 (2006.01) E21B 43/24 (2006.01) E21B 43/27 (2006.01) E21B 43/40 (2006.01) F22B 29/06 (2006.01) F22B 33/18 (2006.01) C09K 8/592 (2006.01)**

[25] EN

[54] **TREATMENT OF ONCE-THROUGH STEAM GENERATOR (OTSG) EQUIPMENT IN STEAM-ASSISTED GRAVITY DRAINAGE (SAGD) OPERATIONS**

[54] **TRAITEMENT DE MATERIEL DE GENERATEUR DE VAPEUR A PASSAGE DIRECT DANS DES OPERATIONS DE DRAINAGE PAR GRAVITE AU MOYEN DE VAPEUR**

[72] GALBRAITH, PAUL, CA
[72] HIERNAUX, PIERRE, CA
[72] BROWN, LEE, CA
[72] BROWN, VINCENT, CA
[73] PRODUITS CHIMIQUES MAGNUS LIMITEE, CA
[86] (3086104)
[87] (3086104)
[22] 2020-07-07

[11] **3,086,770**
[13] C

[51] **Int.Cl. G06Q 10/06 (2012.01) G06Q 50/06 (2012.01)**

[25] EN

[54] **ENERGY CONSUMPTION MANAGEMENT BASED ON GAME THEORETICAL DEVICE PRIORITIZATION**

[54] **GESTION DE CONSOMMATION D'ENERGIE BASEE SUR UNE PRIORISATION DE DISPOSITIFS PAR LA THEORIE DES JEUX**

[72] SRINIVASAN, MOHIT, US
[72] DECKER, DAVID, US
[73] LANDIS+GYR INNOVATIONS, INC., US
[85] 2020-06-23
[86] 2019-01-07 (PCT/US2019/012494)
[87] (WO2019/139843)
[30] US (15/865,884) 2018-01-09

[11] **3,087,541**
[13] C

[51] **Int.Cl. A47B 96/20 (2006.01) A47B 55/00 (2006.01) A47B 96/06 (2006.01) A47C 5/12 (2006.01) A47C 19/00 (2006.01) F16B 12/00 (2006.01)**

[25] EN

[54] **SURFACE MOUNTED DESK HAVING CONCEALED MOUNT BUREAU MONTE EN SURFACE AYANT UN SUPPORT CACHE**

[72] SZEKELY, KENNETH EUGENE, CA
[73] MAXSECURE SYSTEMS INCORPORATED, CA
[86] (3087541)
[87] (3087541)
[22] 2010-06-28
[62] 3,040,374
[30] US (61/221,479) 2009-06-29

[11] **3,087,851**
[13] C

[51] **Int.Cl. A01D 34/00 (2006.01) A01B 69/04 (2006.01) A01B 79/00 (2006.01)**

[25] EN

[54] **AUTOMATED SECURE DOOR FOR ROBOTIC MOWER**

[54] **PORTE SECURISEE AUTOMATISEE POUR TONDEUSE ROBOTISEE**

[72] CRANDALL, JUSTIN, US
[72] LOMONT, BART M., US
[72] MELBOURNE, DAVID J., US
[73] ROBIN TECHNOLOGIES, INC., US
[85] 2020-07-07
[86] 2018-05-29 (PCT/US2018/034896)
[87] (WO2019/152066)
[30] US (15/886,805) 2018-02-01

[11] **3,089,689**
[13] C

[51] **Int.Cl. H01S 3/139 (2006.01) H01S 3/081 (2006.01)**

[25] EN

[54] **OUTPUT COUPLING FROM UNSTABLE LASER RESONATORS**

[54] **COUPLAGE DE SORTIE DE RESONATEURS LASER INSTABLES**

[72] JACKSON, PAUL E., US
[72] KERN, AARON M., US
[73] KERN TECHNOLOGIES, LLC, US
[86] (3089689)
[87] (3089689)
[22] 2020-08-11
[30] EP (19196887.4) 2019-09-12

[11] **3,089,948**
[13] C

[51] **Int.Cl. H04B 7/185 (2006.01) H04W 16/26 (2009.01) H04W 24/08 (2009.01) H04W 84/06 (2009.01)**

[25] EN

[54] **MONITORING OF RADIO RELAY APPARATUS USING FEEDER LINK**

[54] **SURVEILLANCE D'UN DISPOSITIF A FAISCEAUX HERTZIENS AU MOYEN DE LIAISONS DE CONNEXIONS**

[72] MATSUURA, KAZUKI, JP
[72] OTA, YOSHICHIKA, JP
[73] SOFTBANK CORP., JP
[85] 2020-07-29
[86] 2019-01-22 (PCT/JP2019/001914)
[87] (WO2019/151056)
[30] JP (2018-018641) 2018-02-05

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March 15, 2022**

[11] **3,090,207**
[13] C

[51] **Int.Cl. H04N 19/12 (2014.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01) H04N 19/61 (2014.01)**

[25] EN

[54] **TRANSFORM SELECTION IN A VIDEO ENCODER AND/OR VIDEO DECODER**

[54] **SELECTION DE TRANSFORMEE DANS UN CODEUR VIDEO ET/OU UN DECODEUR VIDEO**

[72] YU, RUOYANG, SE
[72] ZHANG, ZHI, SE
[72] SJOBERG, RICKARD, SE
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2020-07-31
[86] 2019-07-10 (PCT/EP2019/068548)
[87] (WO2020/011860)
[30] US (62/697,484) 2018-07-13

[11] **3,090,423**
[13] C

[51] **Int.Cl. H04W 80/02 (2009.01) H04W 88/08 (2009.01)**

[25] EN

[54] **DYNAMIC WIRELESS NETWORK ARCHITECTURE TO SERVE UPLINK-CENTRIC AND DOWNLINK-CENTRIC USER APPLICATIONS**

[54] **ARCHITECTURE DE RESEAU SANS FIL DYNAMIQUE POUR SERVIR DES APPLICATIONS UTILISATEUR CENTREES SUR LA LIAISON MONTANTE ET CENTREES SUR LA LIAISON DESCENDANTE**

[72] CAI, ZHENG, US
[72] FANG, ZHENG, US
[72] KAZEMINEJAD, SAIED, US
[72] WANG, YU, US
[73] SPRINT COMMUNICATIONS COMPANY L.P., US
[85] 2020-08-04
[86] 2019-03-14 (PCT/US2019/022348)
[87] (WO2019/178408)
[30] US (15/922,461) 2018-03-15

[11] **3,090,637**
[13] C

[51] **Int.Cl. A61K 31/16 (2006.01) A23L 33/10 (2016.01) A61K 31/165 (2006.01) A61P 21/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING AND TREATMENT OF SPINAL CORD INJURY**

[54] **COMPOSITION POUR LA PREVENTION ET LE TRAITEMENT DE LESIONS DE LA MOELLE EPINIERE**

[72] PARK, KI DUK, KR
[72] LEE, CHANGJOON, KR
[72] PAE, AE NIM, KR
[72] OH, SOO-JIN, KR
[72] LIM, SANG MIN, KR
[72] PARK, JONG HYUN, KR
[72] LEE, JUNGMOO, KR
[72] HA, YOON, KR
[72] LEE, HYE YEONG, KR
[73] NEUROBIOGEN CO., LTD., KR
[85] 2020-08-06
[86] 2019-02-07 (PCT/KR2019/001497)
[87] (WO2019/156465)
[30] KR (10-2018-0015296) 2018-02-07

[11] **3,090,883**
[13] C

[51] **Int.Cl. B05B 11/00 (2006.01) A45D 34/04 (2006.01) A45D 40/24 (2006.01)**

[25] EN

[54] **DUAL PUMP DISPENSING SYSTEM**

[54] **SYSTEME DE DISTRIBUTION A DOUBLE POMPE**

[72] MOIGNARD, JULIEN, US
[72] CRESCAS, ROBERT MICHAEL, US
[72] DRAKE, LORRAINE, US
[72] OWEN, THOMAS EDWARD, US
[72] PARDON, JANET, US
[73] ELC MANAGEMENT LLC, US
[85] 2020-08-10
[86] 2019-02-08 (PCT/US2019/017295)
[87] (WO2019/160765)
[30] US (15/898,575) 2018-02-17

[11] **3,093,537**
[13] C

[51] **Int.Cl. B23K 11/30 (2006.01) B23C 5/12 (2006.01) B23K 11/11 (2006.01)**

[25] EN

[54] **TIP DRESSING CUTTER**

[54] **OUTIL DE COUPE POUR DRESSAGE D'EMBOUS**

[72] TEZAWA, KAZUHIRO, JP
[73] KYOKUTOH CO., LTD., JP
[85] 2020-09-09
[86] 2019-04-10 (PCT/JP2019/015619)
[87] (WO2019/203087)
[30] JP (2018-078396) 2018-04-16

[11] **3,095,748**
[13] C

[51] **Int.Cl. B62D 35/00 (2006.01)**

[25] EN

[54] **ACTIVE FRONT DEFLECTOR - FLAT PANEL**

[54] **DEFLECTEUR AVANT ACTIF, PANNEAU PLAT**

[72] LINDBERG, BRAENDON R., US
[72] MATTHEWS, MARTIN R., US
[72] WANG, YAO, US
[73] MAGNA EXTERIORS INC., CA
[85] 2020-09-30
[86] 2019-04-03 (PCT/US2019/025546)
[87] (WO2019/195395)
[30] US (62/651,859) 2018-04-03

[11] **3,095,794**
[13] C

[51] **Int.Cl. B23Q 1/70 (2006.01) B23B 19/02 (2006.01)**

[25] EN

[54] **ASSEMBLING AND CENTERING STRUCTURE FOR PROCESSING TOOL**

[54] **STRUCTURE D'ASSEMBLAGE ET DE CENTRAGE POUR OUTIL DE TRAITEMENT**

[72] CHEN, LI-CHENG, CN
[73] YIH TROUN ENTERPRISE CO., LTD., CN
[85] 2020-09-14
[86] 2019-03-04 (PCT/CN2019/076867)
[87] (WO2019/174488)

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[11] **3,097,880**
[13] C

[51] **Int.Cl. A61G 5/04 (2013.01)**
[25] EN
[54] **REMOVABLE POWER ASSIST FOR MANUAL WHEELCHAIR ASSISTANCE MOTORISEE AMOVIBLE POUR FAUTEUIL ROULANT MANUEL**

[72] PESKIN, EVAN, US
[72] NAGAR, VIVEK, US
[72] WILSON, AUDREY, US
[72] SLAVIN, JONATHAN, US
[73] RODA FUTURA, LLC, US
[85] 2020-10-20
[86] 2019-04-26 (PCT/US2019/029266)
[87] (WO2020/036659)
[30] US (62/663,289) 2018-04-27

[11] **3,098,839**
[13] C

[51] **Int.Cl. D21H 27/30 (2006.01) D21H 21/20 (2006.01)**
[25] EN
[54] **HIGH SOFTNESS, HIGH DURABILITY BATH TISSUE WITH TEMPORARY WET STRENGTH**

[54] **PAPIER HYGIENIQUE PRESENTANT UN NIVEAU ELEVE DE DURABILITE ET DE DOUCEUR ET UNE RESISTANCE TEMPORAIRE A L'HUMIDITE**

[72] MILLER, JOSEPH H., US
[72] SUMNIGHT, DANIEL, US
[72] ORIARAN, T. PHILIPS, US
[72] SCHUH, BRIAN J., US
[72] RAMIREZ, ALBERTO J., US
[72] LEE, JEFFREY A., US
[73] GPCP IP HOLDINGS LLC, US
[86] (3098839)
[87] (3098839)
[22] 2012-07-23
[62] 2,843,521
[30] US (61/457,991) 2011-07-28
[30] US (13/548,600) 2012-07-13

[11] **3,100,301**
[13] C

[51] **Int.Cl. A47H 3/00 (2006.01) E06B 9/326 (2006.01) E06B 9/42 (2006.01)**
[25] EN
[54] **PROTECTIVE ENCLOSURE FOR A WINDOW COVERING CORD**

[54] **ENCEINTE PROTECTRICE POUR CORDON DE COUVERTURE DE FENETRE**

[72] FERLAND, THIERRY, CA
[73] LES PRODUITS DE FENETRES SOL-R INC., CA
[86] (3100301)
[87] (3100301)
[22] 2020-11-20

[11] **3,100,368**
[13] C

[51] **Int.Cl. B64C 27/26 (2006.01)**
[25] EN
[54] **A TAILLESS COMPOUND HELICOPTER**

[54] **HELICOPTERE HYBRIDE SANS QUEUE**

[72] BLACHA, MARTIN, DE
[72] FINK, AXEL, DE
[73] AIRBUS HELICOPTERS DEUTSCHLAND GMBH, DE
[86] (3100368)
[87] (3100368)
[22] 2020-11-23
[30] EP (20400004.6) 2020-02-17

[11] **3,100,885**
[13] C

[51] **Int.Cl. G01S 17/95 (2006.01) G01S 17/32 (2020.01)**
[25] EN
[54] **WIND FIELD INFORMATION MEASUREMENT METHOD AND NACELLE-BASED LIDAR**

[54] **METHODE DE MESURE DES INFORMATIONS SUR LE CHAMP DE VENT ET LIDAR SUR NACELLE**

[72] ZHOU, JUN, CN
[72] XIAO, ZENGLI, CN
[72] ZHU, HAILONG, CN
[72] TANG, ANQING, CN
[73] NANJING MOVELASER TECHNOLOGY CO., LTD., CN
[85] 2020-11-19
[86] 2018-12-03 (PCT/CN2018/118859)
[87] (WO2020/113356)

[11] **3,101,869**
[13] C

[51] **Int.Cl. B29C 49/06 (2006.01) B29C 49/42 (2006.01)**
[25] EN
[54] **HOT RUNNER APPARATUS, METHOD FOR BRANCHING MOLTEN RESIN IN THE HOT RUNNER APPARATUS, AND INJECTION STRETCH BLOW MOLDING MACHINE**

[54] **APPAREIL A CANAUX CHAUFFANTS, PROCEDE DE RAMIFICATION DE RESINE FONDUE DANS L'APPAREIL A CANAUX CHAUFFANTS ET MACHINE DE MOULAGE PAR INJECTION-ETIRAGE-SOUFFLAGE**

[72] MATSUZAWA, MOTOHIRO, JP
[73] AOKI TECHNICAL LABORATORY, INC., JP
[85] 2020-11-30
[86] 2020-05-22 (PCT/JP2020/020222)
[87] (WO2020/250641)
[30] JP (2019-108789) 2019-06-11

[11] **3,104,983**
[13] C

[51] **Int.Cl. C22B 3/44 (2006.01) C01G 23/047 (2006.01) C01G 23/08 (2006.01) C22B 3/10 (2006.01) C22B 3/22 (2006.01) C22B 3/26 (2006.01) C22B 34/12 (2006.01)**
[25] EN
[54] **PROCESS FOR RECOVERING TITANIUM DIOXIDE FROM TITANIUM CONTAINING MATERIALS**

[54] **PROCEDE DE RECUPERATION DE DIOXYDE DE TITANE PRESENT DANS DES MATERIAUX CONTENANT DU TITANE**

[72] LAROCHELLE, ERIC, US
[72] MOORE, CARROLL, US
[72] LAROCHELLE, TOMMEE, US
[72] SIXBERRY, RICHARD A., US
[72] BASHIR, OUMAR, CA
[72] LAFONTAINE, STEEVE, CA
[73] SPLENDOR TITANIUM INC., CA
[85] 2020-12-23
[86] 2019-06-27 (PCT/IB2019/000829)
[87] (WO2020/003004)
[30] US (16/022,603) 2018-06-28

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[11] **3,110,732**
[13] C

[51] **Int.Cl. G06F 40/10 (2020.01) G06F 40/166 (2020.01)**
[25] EN
[54] **DYNAMIC REGION BASED APPLICATION OPERATIONS OPERATIONS D'APPLICATION DYNAMIQUES FONDEES SUR LA REGION**
[72] YAO, YAJUN, CN
[72] BAI, YUAN, CN
[72] CHEN, JUANJUAN, CN
[73] CITRIX SYSTEMS, INC., US
[85] 2021-02-25
[86] 2020-05-07 (PCT/CN2020/089056)
[87] (WO2021/223186)

[11] **3,111,012**
[13] C

[51] **Int.Cl. A61B 3/10 (2006.01) A61B 3/103 (2006.01)**
[25] EN
[54] **DETERMINATION OF A CHANGE IN A REFRACTIVE ERROR OF AN EYE DETERMINATION D'UNE MODIFICATION D'UN DEF AUT DE REFRACTION D'UN ŒIL**
[72] OHLENDORF, ARNE, DE
[72] BREHER, KATHARINA, DE
[72] WAHL, SIEGFRIED, DE
[73] CARL ZEISS VISION INTERNATIONAL GMBH, DE
[85] 2021-02-26
[86] 2020-07-10 (PCT/EP2020/069566)
[87] (WO2021/005213)
[30] EP (19185709.3) 2019-07-11

[11] **3,112,183**
[13] C

[51] **Int.Cl. E21B 43/00 (2006.01)**
[25] EN
[54] **RESERVOIR SIMULATION WITH PRESSURE SOLVER FOR NON-DIAGONALLY DOMINANT INDEFINITE COEFFICIENT MATRICES SIMULATION DE RESERVOIR AVEC RESOLVEUR DE PRESSION POUR DES MATRICES DE COEFFICIENTS INDEFINIES NON DIAGONALEMENT DOMINANTS**
[72] DOGRU, ALI HAYDAR, SA
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2021-03-08
[86] 2019-09-12 (PCT/US2019/050875)
[87] (WO2020/068442)
[30] US (16/139,326) 2018-09-24

[11] **3,113,929**
[13] C

[51] **Int.Cl. A61K 31/685 (2006.01) A61K 31/155 (2006.01) A61P 27/02 (2006.01) A61P 33/04 (2006.01)**
[25] EN
[54] **USE OF MILTEFOSINE FOR TREATING FREE-LIVING AMOEBIC INFECTIONS UTILISATION DE LA MILTEFOSINE DANS LE TRAITEMENT D'INFECTIONS AMIBIENNESLIBRES**
[72] MACLAUGHLAN, TODD EWEN, US
[73] PROFOUNDA, INC., US
[85] 2021-03-23
[86] 2019-09-20 (PCT/US2019/052038)
[87] (WO2020/068562)
[30] US (62/735,338) 2018-09-24
[30] US (16/515,745) 2019-07-18

[11] **3,113,993**
[13] C

[51] **Int.Cl. B60Q 9/00 (2006.01) B60T 7/12 (2006.01) B60T 8/171 (2006.01) B60T 8/175 (2006.01)**
[25] EN
[54] **COMPUTER VISION SYSTEMS AND METHODS FOR GROUND SURFACE CONDITION DETECTION AND EXTRACTION FROM DIGITAL IMAGES SYSTEMES ET PROCEDES DE VISION PAR ORDINATEUR POUR LA DETECTION ET L'EXTRACTION D'UN ETAT DE SURFACE DE SOL A PARTIR D'IMAGES NUMERIQUES**
[72] PORTER, BRYCE ZACHARY, US
[72] SHELTON, CORY, US
[72] BARKER, JOSH, US
[73] GEOMNI, INC., US
[85] 2021-03-23
[86] 2019-09-25 (PCT/US2019/052929)
[87] (WO2020/068962)
[30] US (62/736,003) 2018-09-25

[11] **3,115,092**
[13] C

[51] **Int.Cl. H01Q 13/02 (2006.01) H01P 1/165 (2006.01) H01P 1/17 (2006.01) H01Q 3/26 (2006.01) H01Q 15/24 (2006.01)**
[25] EN
[54] **RADIO-FREQUENCY COMPONENT COMPRISING SEVERAL WAVEGUIDE DEVICES WITH RIDGES COMPOSANT RADIOFREQUENCE COMPORTANT PLUSIEURS DISPOSITIFS A GUIDE D'ONDE MUNI DE STRIES**
[72] MENARGUES GOMEZ, ESTEBAN, CH
[72] DEBOGOVIC, TOMISLAV, CH
[72] CAPDEVILA CASCANTE, SANTIAGO, CH
[72] DE RIJK, EMILE, CH
[73] SWISSTO12 SA, CH
[85] 2021-03-31
[86] 2020-03-27 (PCT/IB2020/052961)
[87] (WO2020/194270)
[30] FR (FR1903303) 2019-03-28

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[11] **3,115,353**

[13] C

- [51] **Int.Cl. G01R 31/08 (2020.01) G01R 29/16 (2006.01) H02J 13/00 (2006.01)**
[25] FR
[54] **METHOD, SYSTEM AND SOFTWARE PRODUCT FOR IDENTIFYING EQUIPMENT THAT CAN PRESENT AN ELECTRICAL NON-CONFORMITY**
[54] **METHODE, SYSTEME ET PRODUIT LOGICIEL PERMETTANT D'IDENTIFIER DES INSTALLATIONS SUSCEPTIBLES DE PRESENTER UNE NON-CONFORMITE ELECTRIQUE**
[72] CARIGNAN, JEAN, CA
[72] GELINAS, SYLVAIN, CA
[72] POULIN, ALAIN, CA
[73] HYDRO-QUEBEC, CA
[85] 2021-04-06
[86] 2019-10-04 (PCT/CA2019/051425)
[87] (WO2020/073117)
[30] CA (3.020.432) 2018-10-11

[11] **3,117,498**

[13] C

- [51] **Int.Cl. A47J 31/46 (2006.01)**
[25] EN
[54] **A DISTRIBUTION CONTROL DEVICE AND DISTRIBUTION EQUIPMENT**
[54] **DISPOSITIF DE CONTROLE DE LA DISTRIBUTION ET EQUIPEMENT DE DISTRIBUTION**
[72] LAU, YUK HANG, CN
[73] GUAVOLUTION LIMITED, CN
[85] 2021-03-26
[86] 2018-09-07 (PCT/CN2018/104557)
[87] (WO2020/047826)

[11] **3,117,753**

[13] C

- [51] **Int.Cl. B25J 9/00 (2006.01) B25J 9/14 (2006.01) F15B 15/14 (2006.01)**
[25] FR
[54] **DEVICE DESIGNED TO BE POSITIONED CLOSE TO A JOINT AND GENERAL SYSTEM COMPRISING SUCH A DEVICE**
[54] **DISPOSITIF DESTINE A ETRE POSITIONNE A PROXIMITE D'UNE ARTICULATION ET SYSTEME GENERAL COMPORTANT UN TEL DISPOSITIF**
[72] GRENIER, JORDANE, FR
[72] DENNINGER, MARC, CA
[72] LAROSE, PASCAL, CA
[72] LUCKING BIGUE, JEAN-PHILIPPE, CA
[72] PLANTE, JEAN-SEBASTIEN, CA
[72] VERONNEAU, CATHERINE, CA
[73] SAFRAN ELECTRONICS & DEFENSE, FR
[85] 2021-04-26
[86] 2019-10-28 (PCT/EP2019/079398)
[87] (WO2020/089169)
[30] FR (1860006) 2018-10-29

[11] **3,124,208**

[13] C

- [51] **Int.Cl. B23D 63/02 (2006.01)**
[25] EN
[54] **SAW TOOTH SETTER**
[54] **APPAREIL D'AVOYAGE DES DENTS DE SCIE**
[72] BIRKER, CHRIS, CA
[73] NORWOOD INDUSTRIES INC., CA
[86] (3124208)
[87] (3124208)
[22] 2021-07-09

[11] **3,125,463**

[13] C

- [51] **Int.Cl. E21B 17/07 (2006.01)**
[25] EN
[54] **SHOCK ISOLATOR DEVICE AND RELATED METHODS**
[54] **DISPOSITIF D'ISOLATEUR DE CHOCS ET METHODES CONNEXES**
[72] GOPALAN, MANOJ, US
[73] RIME DOWNHOLE TECHNOLOGIES, LLC, US
[86] (3125463)
[87] (3125463)
[22] 2021-07-21
[30] US (16/945,164) 2020-07-31

[11] **3,125,715**

[13] C

- [51] **Int.Cl. A61J 7/04 (2006.01) G16H 20/13 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MULTI-MODAL DOSING DEVICE**
[54] **SYSTEME ET PROCEDE POUR DISPOSITIF DE DOSAGE MULTIMODAL**
[72] WOODBINE, JOHN JESSE, US
[72] KEENAN, JOSEPH FRANCIS, US
[72] CALFEE, PETER WILLIAM, US
[73] GOFIRE, INC., US
[85] 2021-06-30
[86] 2019-12-27 (PCT/US2019/068735)
[87] (WO2020/142374)
[30] US (62/787,650) 2019-01-02
[30] US (16/726,193) 2019-12-23

[11] **3,126,369**

[13] C

- [51] **Int.Cl. B60K 1/04 (2019.01) B60L 50/50 (2019.01) B60K 1/02 (2006.01) B60L 1/14 (2006.01)**
[25] EN
[54] **ELECTRIC UTILITY TERRAIN VEHICLE**
[54] **VEHICULE TOUT-TERRAIN HORS ROUTE ELECTRIQUE**
[72] MILTON, TREVOR R., US
[72] LYNK, KEVIN M., US
[72] HEATON, ANTHONY A., US
[72] MACKELPRANG, MORGAN, US
[72] GRAY, KYLE, US
[72] DAVIS, ROBERT DANE, US
[73] NIKOLA CORPORATION, US
[86] (3126369)
[87] (3126369)
[22] 2017-05-09
[62] 3,072,745
[30] US (62/333,722) 2016-05-09
[30] US (15/268,249) 2016-09-16

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[11] **3,126,738**
[13] C

[51] **Int.Cl. C07D 413/14 (2006.01) C07D 413/04 (2006.01) C07D 487/04 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **PREPARATION METHOD FOR MORPHOLINQUINAZOLINE COMPOUND AND MIDBODY THEREOF**

[54] **PROCEDE DE PREPARATION DE COMPOSE MORPHOLINQUINAZOLINE ET DE CORPS MEDIAN ASSOCIE**

[72] XU, ZUSHENG, CN

[72] LI, JIZHI, CN

[72] WU, JIANFENG, CN

[72] LOU, YANGTONG, CN

[73] SHANGHAI YINGLI PHARMACEUTICAL CO., LTD, CN

[85] 2021-07-14

[86] 2019-12-24 (PCT/CN2019/127763)

[87] (WO2020/147525)

[30] CN (201910040918.1) 2019-01-16

[11] **3,127,511**
[13] C

[51] **Int.Cl. G01N 21/15 (2006.01) G01N 21/85 (2006.01)**

[25] EN

[54] **SELF CLEANING OPTICAL PROBE**

[54] **SONDE OPTIQUE AUTONETTOYANTE**

[72] THABETH, KHALID, GB

[72] ACHESON, RAYMOND, GB

[73] INOV8 SYSTEMS LIMITED, GB

[85] 2021-07-22

[86] 2020-01-23 (PCT/EP2020/000024)

[87] (WO2020/151909)

[30] GB (1901070.1) 2019-01-25

[11] **3,129,382**
[13] C

[51] **Int.Cl. B01J 23/885 (2006.01) B01J 21/02 (2006.01) B01J 37/08 (2006.01) C07C 1/213 (2006.01)**

[25] EN

[54] **CATALYSTS FOR THE DEOXYGENATION OF ESTERS OF FREE FATTY ACIDS AND TRIGLYCERIDES**

[54] **CATALYSEURS DE DESOXYGENATION D'ESTERS D'ACIDES GRAS LIBRES ET DE TRIGLYCERIDES**

[72] LI, ZHIYONG, CA

[72] MISTRY, BHARAT, CA

[72] SINGH, INDER PAL, CA

[72] SINGH, SHRADHA, CA

[73] SBI BIOENERGY, CA

[85] 2021-08-06

[86] 2020-02-12 (PCT/CA2020/050183)

[87] (WO2020/168418)

[30] US (62/807,300) 2019-02-19

[11] **3,131,911**
[13] C

[51] **Int.Cl. B62B 3/02 (2006.01) A47B 1/04 (2006.01) A47B 13/00 (2006.01) A47B 31/00 (2006.01) B62B 5/00 (2006.01)**

[25] EN

[54] **CART WITH REMOVABLE TABLE EXTENSIONS**

[54] **CHARIOT AVEC EXTENSIONS DE TABLE AMOVIBLES**

[72] CHIAO, JERRY, US

[72] CHUANG, YUAN-LUEN, CN

[72] TAM, CZE-CHAO, US

[72] CHAN, WAI KIT, CN

[73] TRINITY INTERNATIONAL INDUSTRIES, L.L.C., US

[85] 2021-08-28

[86] 2020-05-28 (PCT/US2020/070083)

[87] (WO2021/016632)

[30] US (16/522,020) 2019-07-25

[11] **3,137,848**
[13] C

[51] **Int.Cl. H04W 40/04 (2009.01) H04W 84/18 (2009.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR COMPUTING A SUSTAINABLE RATE FOR BROADCAST TRAFFIC IN A NETWORK**

[54] **SYSTEMES ET PROCEDES DE CALCUL DU DEBIT VIABLE DE TRAFIC DE DIFFUSION DANS UN RESEAU**

[72] ATHURALIYA, SANJEEWA, AU

[73] HARRIS GLOBAL COMMUNICATIONS, INC., US

[86] (3137848)

[87] (3137848)

[22] 2020-05-11

[62] 3,080,590

[30] US (16/420,340) 2019-05-23

[11] **3,137,913**
[13] C

[51] **Int.Cl. H04M 1/665 (2006.01) H04M 1/66 (2006.01) H04M 1/663 (2006.01) H04M 3/42 (2006.01) H04M 3/436 (2006.01)**

[25] EN

[54] **METHOD FOR SELECTIVELY ACCEPTING PHONE CALLS AND TEXT MESSAGES**

[54] **PROCEDE D'ACCEPTATION SELECTIVE D'APPELS TELEPHONIQUES ET DE SMS**

[72] CLAY, GEORGE FORSYTHE, US

[73] CLAY, GEORGE FORSYTHE, US

[85] 2021-10-22

[86] 2020-04-29 (PCT/US2020/030425)

[87] (WO2020/223320)

[30] US (62/840,439) 2019-04-30

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15 mars 2022

[11] **3,138,363**

[13] C

[51] **Int.Cl. B25H 1/04 (2006.01) A47B 3/00 (2006.01) A47B 43/00 (2006.01) B25H 3/02 (2006.01) B25H 3/04 (2006.01) B25H 3/06 (2006.01)**

[25] EN

[54] **WORKBENCH WITH COLLAPSIBLE PEGBOARD**

[54] **ETABLI A PANNEAU PERFORE PLIABLE**

[72] CHIAO, JERRY, US

[72] CHUANG, YUAN-LUEN, CN

[72] TAM, CZE-CHAO, US

[73] TRINITY INTERNATIONAL INDUSTRIES, L.L.C., US

[85] 2021-10-27

[86] 2020-05-28 (PCT/US2020/070082)

[87] (WO2021/026546)

[30] US (16/534,356) 2019-08-07

[11] **3,141,237**

[13] C

[51] **Int.Cl. G01B 11/25 (2006.01) G01B 11/245 (2006.01)**

[25] EN

[54] **TRIANGULATION-BASED OPTICAL PROFILOMETRY SYSTEM**

[54] **SYSTEME DE PROFILOMETRIE OPTIQUE FONDE SUR LA TRIANGULATION**

[72] MARTIN, FRANCOIS, CA

[73] INSTITUT NATIONAL D'OPTIQUE (INO), CA

[85] 2021-11-18

[86] 2019-06-28 (PCT/IB2019/055532)

[87] (WO2020/260934)

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[21] **3,091,234**
[13] A1
[51] **Int.Cl. A01G 31/04 (2006.01) A01D 46/00 (2006.01) B65B 11/00 (2006.01)**
[25] EN
[54] **VERTICAL GROWTH SYSTEMS INCLUDING SEEDERS, TRIMMERS AND HARVESTERS**
[54] **SYSTEMES DE CROISSANCE VERTICALE COMPRENANT DES SEMOIRS, DES TAILLE-BORDURES ET DES RECOLTEUSES**
[72] SRIKUMAR, ARJUN, CA
[71] SRIKUMAR, ARJUN, CA
[22] 2020-08-27
[41] 2022-02-27

[21] **3,091,252**
[13] A1
[51] **Int.Cl. G03B 15/00 (2021.01) G03B 15/02 (2021.01)**
[25] EN
[54] **TOWED UNDERWATER IMAGE ACQUISITION APPARATUS**
[54] **APPAREIL D'ACQUISITION D'IMAGE SOUS-MARINE TRAINE**
[72] WANG, LISHAO, CA
[72] LIU, SHIWEI, US
[72] CHENG, XIAOGE, CN
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[71] MARINE THINKING INC., CA
[22] 2020-08-27
[41] 2022-02-27

[21] **3,091,271**
[13] A1
[51] **Int.Cl. H01R 24/00 (2011.01) B60R 16/02 (2006.01) H01R 11/03 (2006.01) H01R 25/16 (2006.01)**
[25] EN
[54] **MODULAR ELECTRICAL CONNECTOR SYSTEM FOR WIRE HARNESS AND CABLE ASSEMBLIES**
[54] **SYSTEME DE CONNEXION ELECTRIQUE MODULAIRE POUR LES FAISCEAUX DE FILS ET LES ENSEMBLES DE CABLES**
[72] KUMAR, RAJEEV, CA
[72] KUMAR, RAKESH, CA
[71] KUMAR, RAJEEV, CA
[71] KUMAR, RAKESH, CA
[22] 2020-08-27
[41] 2022-02-27

[21] **3,091,337**
[13] A1
[51] **Int.Cl. G01N 15/10 (2006.01) G01S 15/89 (2006.01)**
[25] EN
[54] **A REAL-TIME OPEN WATER ANALYSIS SYSTEM**
[54] **SYSTEME D'ANALYSE DES EAUX LIBRES EN TEMPS REEL**
[72] WANG, LISHAO, CA
[72] LIU, SHIWEI, US
[72] CHENG, XIAOGE, CN
[72] WANG, TIANYE, CA
[72] LU, FRED, CA
[71] MARINE THINKING INC., CA
[22] 2020-08-27
[41] 2022-02-27

[21] **3,091,366**
[13] A1
[51] **Int.Cl. B01D 17/04 (2006.01) B01J 19/12 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR COALESCING EMULSIONS**
[54] **PROCEDE ET APPAREIL POUR FUSIONNER DES EMULSIONS**
[72] RIZVI, SYED. K., CA
[71] SUNCOR ENERGY INC., CA
[22] 2020-08-27
[41] 2022-02-27

[21] **3,091,368**
[13] A1
[51] **Int.Cl. E04H 4/10 (2006.01)**
[25] EN
[54] **POOL COVER DEPLOYMENT APPARATUS**
[54] **APPAREIL DE DEPLOIEMENT DE COUVERTURE DE PISCINE**
[72] ELLIOTT, RAYMOND JOHN, CA
[71] ELLIOTT, RAYMOND JOHN, CA
[22] 2020-08-27
[41] 2022-02-27
[30] US (17/004,274) 2020-08-27

[21] **3,091,380**
[13] A1
[51] **Int.Cl. H04L 9/14 (2006.01) G06Q 20/38 (2012.01) H04L 9/32 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OBTAINING CONSENT TO PERFORM AN OPERATION**
[54] **METHODE ET SYSTEME POUR OBTENIR LE CONSENTEMENT DE REALISER UNE OPERATION**
[72] TAX, DAVID SAMUEL, CA
[72] PANAG, HARJOT SINGH, CA
[72] FARAGHER, KEVIN WAYNE, CA
[72] DUNJIC, MILOS, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2020-08-27
[41] 2022-02-27

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[21] **3,091,549**
[13] A1

[51] **Int.Cl. C25B 9/15 (2021.01) C25B 1/50 (2021.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01) C25B 1/26 (2006.01) C25B 15/08 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR THE ELECTROLYTIC PRODUCTION OF HYPOCHLOROUS ACID**

[54] **APPAREIL ET METHODE POUR LA PRODUCTION ELECTROLYTIQUE D'ACIDE HYPOCHLOREUX**

[72] BEN SALAH, IHSEN, CA

[72] LAAROUSSI, MOHAMED, CA

[71] E2METRIX, INC., CA

[22] 2020-08-31

[41] 2022-02-28

[21] **3,091,554**
[13] A1

[51] **Int.Cl. A61K 31/58 (2006.01) A61K 31/505 (2006.01) A61K 31/557 (2006.01) A61K 31/5575 (2006.01) A61K 47/08 (2006.01) A61K 47/12 (2006.01) A61P 17/14 (2006.01)**

[25] EN

[54] **FORMULATIONS FOR REDUCING HAIR LOSS AND/OR INCREASING HAIR REGROWTH**

[54] **FORMULATIONS POUR REDUIRE LA PERTE DE CHEVEUX ET/OU ACCROITRE LA REPOUSSE DES CHEVEUX**

[72] SEKHAVAT, HOUFAR, CA

[72] ASOTRA, SATISH, CA

[71] TRIPLE HAIR INC., CA

[22] 2020-08-28

[41] 2022-02-28

[21] **3,091,561**
[13] A1

[51] **Int.Cl. G02C 5/00 (2006.01) G02C 5/22 (2006.01)**

[25] EN

[54] **INTERCHANGEABLE HINGE FOR MODULAR EYEWEAR**

[54] **CHARNIERE INTERCHANGEABLE POUR LUNETTE MODULAIRE**

[72] GIOVANNONE, KATHERINE, CA

[71] GIOVANNONE, KATHERINE, CA

[22] 2020-08-27

[41] 2022-02-27

[21] **3,091,573**
[13] A1

[51] **Int.Cl. A23L 17/40 (2016.01) A23L 33/105 (2016.01) A23L 33/115 (2016.01) A23L 33/12 (2016.01) A22C 29/02 (2006.01) A23B 4/06 (2006.01)**

[25] EN

[54] **MINIMALLY-PROCESSED MICROWAVEABLE FROZEN LOBSTER TAIL PRODUCT**

[54] **PRODUIT DE QUEUE DE HOMARD CONGEELE PEU TRANSFORMEE POUVANT ETRE MISE AU MICRO-ONDES**

[72] BARSHAK, ALISON, US

[71] BARSHAK, ALISON, US

[22] 2020-08-31

[41] 2022-02-28

[21] **3,091,600**
[13] A1

[51] **Int.Cl. A01K 1/01 (2006.01)**

[25] EN

[54] **UPRIGHT SELF-CLEANING CAT LITTER BOX REV**

[54] **LITIERE POUR CHAT AUTONETTOYANTE DEBOUT**

[72] DJURICA, RADOSLAV, CA

[71] DJURICA, RADOSLAV, CA

[22] 2020-08-28

[41] 2022-02-28

[21] **3,091,616**
[13] A1

[51] **Int.Cl. A47G 29/20 (2006.01) A47G 29/30 (2006.01)**

[25] EN

[54] **SECURE ADJUSTABLE SIZE APPARATUS FOR RECEIVING PARCELS AND DELIVERIES WITH TAMPER WARNING ALARM**

[54] **APPAREIL SECURISE A TAILLE AJUSTABLE POUR LA RECEPTION DE COLIS ET DE LIVRAISON ET DOTE D'UNE ALARME ANTISABOTAGE**

[72] DRAPER, CHE W., CA

[71] DRAPER, CHE W., CA

[22] 2020-08-31

[41] 2022-02-28

[21] **3,091,620**
[13] A1

[51] **Int.Cl. G06Q 20/34 (2012.01) G06Q 40/02 (2012.01)**

[25] EN

[54] **VALUE TRANSFER CARD MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION DES CARTES DE TRANSFERT DE LA VALEUR**

[72] DUNJIC, MILOS, CA

[72] TAX, DAVID SAMUEL, CA

[72] RASTOGI, KUSHANK, CA

[72] GUAN, DEREK, CA

[72] BELLO, ZAINAB ENIOLA, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2020-08-28

[41] 2022-02-28

[21] **3,091,622**
[13] A1

[51] **Int.Cl. A61K 31/045 (2006.01) A61K 9/06 (2006.01) A61K 9/107 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61P 23/02 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **PAIN RELIEVING FORMULATIONS CONTAINING CANNABIS AND METHODS OF MAKING SAME**

[54] **FORMULATIONS D'ATTENUATION DE LA DOULEUR CONTENANT DU CANNABIS ET METHODES DE FABRICATION**

[72] HANLON, TERESA ANN, CA

[71] HANLON, TERESA ANN, CA

[22] 2020-08-28

[41] 2022-02-28

[30] US (17/005,727) 2020-08-28

[21] **3,091,631**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**

[25] EN

[54] **ADJUSTABLE FACE MASK**

[54] **MASQUE AJUSTABLE**

[72] CLOUTIER, ALEXANDRE, CA

[71] INNOVATOOLS INC., CA

[22] 2020-08-28

[41] 2022-02-28

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[21] **3,091,640**
[13] A1

[51] **Int.Cl. A61B 5/024 (2006.01) A61B 5/025 (2006.01) A61B 5/0255 (2006.01) G08B 21/18 (2006.01)**

[25] EN
[54] **HEART RATE VARIABILITY NOTIFICATION DEVICE**
[54] **DISPOSITIF D'AVIS DE VARIABILITE DU RYTHME CARDIAQUE**

[72] ZERITIS, HARRY, CA
[71] ZERITIS, HARRY, CA
[22] 2020-08-31
[41] 2022-02-28
[30] US (17/006971) 2020-08-31

[21] **3,091,650**
[13] A1

[51] **Int.Cl. G06F 30/00 (2020.01) G06N 20/00 (2019.01) G06T 1/00 (2006.01) G06T 5/00 (2006.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR DESIGNING AN OPTICAL FILTER**
[54] **METHODE ET SYSTEME DE CONCEPTION D'UN FILTRE OPTIQUE**

[72] BEAUDOIN, PHILIPPE, CA
[72] ELSAYED-ALI, SHERIF, CA
[71] ELEMENT AI INC., CA
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,704**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/06 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **TOMATO VARIETY NUN 09248 TOF**
[54] **TOMATE DE VARIETE NUN 09248 TOF**

[72] SILVERTAND, BEN, NL
[71] NUNHEMS B.V., NL
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,643**
[13] A1

[51] **Int.Cl. F01K 27/00 (2006.01) F25J 5/00 (2006.01)**

[25] EN
[54] **DUAL OUTPUT, COMPRESSION CYCLE THERMAL ENERGY CONVERSION PROCESS**
[54] **PROCEDE DE CONVERSION D'ENERGIE THERMIQUE A CYCLE DE COMPRESSION A DOUBLE SORTIE**

[72] MARNOCH, IAN A., CA
[71] MARNOCH, IAN A., CA
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,652**
[13] A1

[51] **Int.Cl. F24F 11/62 (2018.01) G05D 22/02 (2006.01) G05D 23/19 (2006.01)**

[25] EN
[54] **MARINE PRODUCT LOGISTICS MONITORING APPARATUS**
[54] **APPAREIL DE SURVEILLANCE LOGISTIQUE DE PRODUIT MARIN**

[72] WANG, LISHAO, CA
[72] LIU, SHIWEI, US
[72] CHENG, XIAOGE, CN
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[72] LU, FRED, CA
[71] MARINE THINKING INC, CA
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,768**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06F 17/00 (2019.01)**

[25] EN
[54] **DATA-PROCESSING METHOD**
[54] **METHODE DE TRAITEMENT DE DONNEES**

[72] BORSATO, EVA, CA
[71] BORSATO, EVA, CA
[22] 2020-09-01
[41] 2022-03-01

[21] **3,091,649**
[13] A1

[51] **Int.Cl. B66D 1/40 (2006.01) B63B 21/16 (2006.01) B63B 27/10 (2006.01) B63G 8/00 (2006.01)**

[25] EN
[54] **CONTROL SYSTEM FOR A CABLE OPERATED ROV**
[54] **SYSTEME DE COMMANDE POUR UN VEHICULE TELEGUIDE A CABLES**

[72] WANG, LISHAO, CA
[72] LIU, SHIWEI, US
[72] CHENG, XIAOGE, CN
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[72] WANG, ZIBO, US
[71] MARINE THINKING INC., CA
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,666**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/06 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **TOMATO VARIETY NUN 09247 TOF**
[54] **TOMATE DE VARIETE NUN 09247 TOF**

[72] SILVERTAND, BEN, NL
[71] NUNHEMS B.V., NL
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,816**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01) A41D 27/00 (2006.01) A41F 1/00 (2006.01)**

[25] EN
[54] **FACE MASK ACCESSORY**
[54] **ACCESSOIRE POUR MASQUE**

[72] WARREN, DONNA M., CA
[71] WARREN, DONNA M., CA
[22] 2020-09-01
[41] 2022-02-28
[30] US (17/006,807) 2020-08-29

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[21] **3,091,851**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/06 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **TOMATO VARIETY NUN 09261 TOF**
[54] **TOMATE DE VARIETE NUN 09261 CAC**

[72] SILVERTAND, BEN, NL
[71] NUNHEMS B.V., NL
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,855**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/06 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **TOMATO VARIETY NUN 09225 TOF**
[54] **TOMATE DE VARIETE NUN 09225 TOF**

[72] SILVERTAND, BEN, NL
[71] NUNHEMS B.V., NL
[22] 2020-08-31
[41] 2022-02-28

[21] **3,091,876**
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/16 (2006.01)**

[25] EN
[54] **SEEDER DEPTH CONTROL MECHANISM**
[54] **MECANISME DE CONTROLE DE LA PROFONDEUR D'UN SEMOIR**

[72] WEMYSS, COLIN, AU
[71] BPR ENGINEERING PTY LTD, AU
[22] 2020-09-02
[41] 2022-03-02

[21] **3,091,940**
[13] A1

[51] **Int.Cl. E06B 9/38 (2006.01)**

[25] EN
[54] **A WINDER DEVICE**
[54] **REMONTOIR**
[72] ZHOU, FAN, CA
[71] LES ENTREPRISES SMARTLUX INC., CA
[22] 2020-09-01
[41] 2022-03-01

[21] **3,092,010**
[13] A1

[51] **Int.Cl. B62D 35/00 (2006.01)**

[25] EN
[54] **VORTEX DRAG DISRUPTION APPARATUS**
[54] **APPAREIL DE PERTURBATION DE LA TRAINEE DE TOURBILLON**

[72] STINCHCOMB, JOSEPH, US
[71] STINCHCOMB, JOSEPH, US
[22] 2020-09-03
[41] 2022-03-03

[21] **3,092,147**
[13] A1

[51] **Int.Cl. B05C 3/00 (2006.01) F16N 3/02 (2006.01) H02G 1/08 (2006.01)**

[25] EN
[54] **WIRE LUBRICATION APPLICATORS, AND RELATED METHODS OF USE**
[54] **APPLICATEURS DE LUBRIFICATION DE FIL ET METHODES D'UTILISATION CONNEXES**

[72] VELICHKO, BLAIRE, CA
[71] 1187185 ALBERTA LTD., CA
[22] 2020-09-04
[41] 2022-03-04

[21] **3,092,167**
[13] A1

[51] **Int.Cl. A61K 8/67 (2006.01) A61K 8/65 (2006.01) A61K 8/66 (2006.01) A61P 17/00 (2006.01) A61Q 19/06 (2006.01)**

[25] EN
[54] **SKIN CARE FORMULATION FOR TREATMENT OF CELLULITE**
[54] **FORMULATION DE SOIN DE LA PEAU POUR LE TRAITEMENT DE LA CELLULITE**

[72] RAPER, PIERS, GB
[71] BOTTLED SCIENCE LIMITED, GB
[22] 2020-09-03
[41] 2022-03-03

[21] **3,092,173**
[13] A1

[51] **Int.Cl. A63B 71/12 (2006.01)**

[25] EN
[54] **SHIN GUARD FOR BALL HOCKEY OR THE LIKE**
[54] **PROTEGE-TIBIA POUR JEU DE HOCKEY-BOTTINE OU SEMBLABLE**

[72] BEAUSEJOUR, LOUIS-MARTIN, CA
[72] DILORIO, JEAN-FRANCOIS, CA
[71] SUGI SPORTS INC., CA
[22] 2020-09-04
[41] 2022-03-04

[21] **3,092,176**
[13] A1

[51] **Int.Cl. A61K 36/889 (2006.01) A61K 9/48 (2006.01) A61K 31/191 (2006.01) A61K 31/194 (2006.01) A61K 31/404 (2006.01) A61K 33/24 (2019.01) A61K 33/30 (2006.01) A61K 36/074 (2006.01) A61K 36/31 (2006.01) A61K 36/53 (2006.01) A61P 17/10 (2006.01)**

[25] EN
[54] **SKIN CARE FORMULATION FOR THE TREATMENT OF ACNE**
[54] **FORMULATION DE SOIN DE LA PEAU POUR LE TRAITEMENT DE L'ACNE**

[72] RAPER, PIERS, GB
[71] BOTTLED SCIENCE LIMITED, GB
[22] 2020-09-03
[41] 2022-03-03

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[21] **3,092,185**
[13] A1

[51] **Int.Cl. A42B 3/12 (2006.01) A42B 3/04 (2006.01) B29C 45/14 (2006.01)**
[25] EN
[54] **HELMET FOR BALL HOCKEY OR THE LIKE**
[54] **CASQUE POUR JEU DE HOCKEY-BOTTINE OU SEMBLABLE**
[72] BEAUSEJOUR, LOUIS-MARTIN, CA
[72] DILORIO, JEAN-FRANCOIS, CA
[71] SUGI SPORTS INC., CA
[22] 2020-09-04
[41] 2022-03-04

[21] **3,092,226**
[13] A1

[51] **Int.Cl. A61L 9/20 (2006.01)**
[25] EN
[54] **SYSTEM, COMPONENTS THEREOF, AND METHODS FOR REDUCING RISK OF TRANSMISSION OF AIRBORNE INFECTIOUS DISEASE IN ENCLOSED SPACES**
[54] **SYSTEME, COMPOSANTES CONNEXES ET METHODES POUR REDUIRE LE RISQUE DE TRANSMISSION DES MALADIES INFECTIEUSES DANS L'AIR DANS LES ESPACES CLOS**
[72] MARGALLOT, ZVI, CA
[72] SHER, SHAWN, CA
[71] 2770023 ONTARIO INC., CA
[22] 2020-09-04
[41] 2022-03-04

[21] **3,092,313**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01) A61M 16/06 (2006.01)**
[25] EN
[54] **ANTI-FOG ATTACHMENT FOR PROTECTIVE FACE MASKS**
[54] **ACCESSOIRE ANTIBUEE POUR MASQUE**
[72] CHIU, BENJAMIN, CA
[72] CHIU, SHANNON, CA
[71] CHIU, BENJAMIN, CA
[71] CHIU, SHANNON, CA
[22] 2020-09-05
[41] 2022-03-05

[21] **3,092,326**
[13] A1

[51] **Int.Cl. B29C 33/00 (2006.01) A63B 21/06 (2006.01) A63B 21/072 (2006.01)**
[25] EN
[54] **REUSABLE MOLDS TO MAKE EXERCISE WEIGHTS**
[54] **MOULES REUTILISABLES POUR LA CREATION DE POIDS D'EXERCICE**
[72] DAVIS, TREVOR J., CA
[72] DAVIS, MATHEW D., CA
[71] DAVIS, TREVOR J., CA
[71] DAVIS, MATHEW D., CA
[22] 2020-09-04
[41] 2022-03-04

[21] **3,092,349**
[13] A1

[51] **Int.Cl. B01D 11/02 (2006.01) B01D 15/00 (2006.01) B03B 7/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR RECYCLING WASTE AND METHODS OF USE THEREOF**
[54] **SYSTEME DE RECYCLAGE DES DECHETS ET METHODES D'UTILISATION**
[72] MCQUILLAN, JOHN FRANCIS, JR, US
[72] FARRELL, MICHAEL DAVID, JR, US
[71] TRIUMVIRATE ENVIRONMENTAL, INC., US
[22] 2020-09-04
[41] 2022-03-02
[30] US (63/073,744) 2020-09-02

[21] **3,092,397**
[13] A1

[51] **Int.Cl. A43B 5/16 (2006.01) A43B 13/14 (2006.01)**
[25] EN
[54] **SKATE OR OTHER FOOTWEAR**
[54] **PATIN OU AUTRE CHAUSSURE**
[72] ALEXANDER, GARNET, CA
[72] POIRIER, MARC, CA
[71] BAUER HOCKEY LTD., CA
[22] 2020-09-04
[41] 2022-03-04

[21] **3,092,975**
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/31 (2013.01) G06F 21/62 (2013.01)**
[25] EN
[54] **SECURE INFORMATION EXCHANGE IN FEDERATED AUTHENTICATION**
[54] **ECHANGE DE RENSEIGNEMENTS SECURISE AVEC AUTHENTIFICATION REGULEE**
[72] REDDEM, DILEEP, US
[72] FEIJOO, RICARDO FERNANDO, US
[71] CITRIX SYSTEMS, INC., US
[22] 2020-09-14
[41] 2022-03-04
[30] US (17/012,207) 2020-09-04

[21] **3,093,291**
[13] A1

[51] **Int.Cl. G06Q 50/30 (2012.01) G06Q 30/02 (2012.01) H04W 4/30 (2018.01) G06F 16/903 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TAXI MANAGEMENT**
[54] **SYSTEMES ET PROCEDES DE GESTION DES TAXIS**
[72] AL-BARKULI, MOHAMED, CA
[71] AL-BARKULI, MOHAMED, CA
[22] 2020-09-16
[41] 2022-03-01
[30] US (17/009,146) 2020-09-01

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[21] **3,093,816**
 [13] A1

[51] **Int.Cl. A61B 5/055 (2006.01) A61K 49/06 (2006.01)**
 [25] EN
 [54] **SYSTEM AND METHOD FOR MAGNETIC RESONANCE NEUROGRAPHY USING INTRAVENOUS ULTRASMALL SUPRAPARAMAGNETIC IRON OXIDE PARTICLES**
 [54] **SYSTEME ET METHODE DE NEUROGRAPHIE PAR RESONANCE MAGNETIQUE AU MOYEN DE PARTICULES D'OXYDE DE FER SUPRAPARAMAGNETIQUE ULTRA PETITES PAR INTRAVEINEUSE**
 [72] SNEAG, DARRYL B., US
 [72] TAN, EK TSOON, US
 [71] NEW YORK SOCIETY FOR THE RUPTURED AND CRIPPLED MAINTAINING THE HOSPITAL FOR SPECIAL SURGERY, US
 [22] 2020-09-18
 [41] 2022-03-04
 [30] US (63/074911) 2020-09-04

[21] **3,095,517**
 [13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**
 [25] EN
 [54] **DYNAMIC ANALYSIS AND MONITORING OF MACHINE LEARNING PROCESSES**
 [54] **ANALYSE ET SURVEILLANCE DYNAMIQUES DE PROCEDE D'APPRENTISSAGE AUTOMATIQUE**
 [72] RHO, BARUM, CA
 [72] LEUNG, KIN KWAN, CA
 [72] VOLKOV, MAKSIMS, CA
 [72] POUTANEN, TOMI JOHAN, CA
 [71] THE TORONTO-DOMINION BANK, CA
 [22] 2020-10-06
 [41] 2022-03-03
 [30] US (63/074,078) 2020-09-03

[21] **3,096,628**
 [13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 47/10 (2012.01)**
 [25] EN
 [54] **REAL-TIME FRACTURE MONITORING, EVALUATION, AND CONTROL**
 [54] **SURVEILLANCE, EVALUATION ET CONTROLE DE FRACTURE EN TEMPS REEL**
 [72] SHETTY, DINESH ANANDA, US
 [72] WANG, XUSONG, US
 [72] WU, XIANG, US
 [72] SRIDHAR, SRIVIDHYA, US
 [71] HALLIBURTON ENERGY SERVICES, INC., US
 [22] 2020-10-21
 [41] 2022-02-27
 [30] US (17/004,320) 2020-08-27

[21] **3,097,985**
 [13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) H04W 4/029 (2018.01) G01S 5/00 (2006.01) B60R 99/00 (2009.01)**
 [25] EN
 [54] **THE AUTOTRACKER SYSTEM**
 [54] **SYSTEME AUTOTRACKER**
 [72] NICOLOSI, CLAUDIO, US
 [72] WILLIAMS, BLAKE A, US
 [71] NICOLOSI, CLAUDIO, US
 [71] WILLIAMS, BLAKE A, US
 [22] 2020-11-04
 [41] 2022-02-28
 [30] US (63/103,833) 2020-08-28

[21] **3,098,713**
 [13] A1

[51] **Int.Cl. B65D 88/30 (2006.01) B65D 90/54 (2006.01)**
 [25] EN
 [54] **TRANSLOCATABLE SLURRY-CONTAINING HOPPER**
 [54] **TREMIE CONTENANT UNE BOUE ENDOTHERAPIQUE**
 [72] HOLMAN, LAWRENCE, US
 [72] MASAR, DAVID, US
 [71] HOLMAN, LAWRENCE, US
 [71] MASAR, DAVID, US
 [22] 2020-11-10
 [41] 2022-02-28
 [30] US (17/008358) 2020-08-31

[21] **3,099,641**
 [13] A1

[51] **Int.Cl. A61C 5/85 (2017.01)**
 [25] EN
 [54] **DENTAL BAND DEVICE**
 [54] **DISPOSITIF DE BANDE DENTAIRE**
 [72] LO, BRIAN, CN
 [72] PARE, RICHARD, CA
 [72] POIRIER, GABRIELLE, CA
 [72] ORBAN, BENOIT, CA
 [72] LUDVIG, JASON RANDALL, CA
 [72] FRIED, SHAWN JORDAN, CA
 [72] MARKOGLOU, NEKTARIA, CA
 [71] MEDICOM GROUP INC., CA
 [22] 2020-11-16
 [41] 2022-02-28
 [30] US (17/005,543) 2020-08-28

[21] **3,100,151**
 [13] A1

[51] **Int.Cl. A47G 27/02 (2006.01) B32B 5/06 (2006.01)**
 [25] EN
 [54] **THREE-DIMENSIONAL INTERLAYER COMPOSITE CARPET**
 [54] **TAPIS COMPOSITE A COUCHE INTERMEDIAIRE TRIDIMENSIONNELLE**
 [72] SHUN LIN, CAO, CN
 [71] KUNSHAN YIJIAJU TEXTILE CO., LTD., CN
 [22] 2020-11-20
 [41] 2022-03-02
 [30] CN (202010910768.8) 2020-09-02

[21] **3,100,524**
 [13] A1

[51] **Int.Cl. B60R 16/023 (2006.01) B60P 7/02 (2006.01) B62D 33/04 (2006.01)**
 [25] EN
 [54] **CAPACITIVE TOUCH VEHICLE ACCESSORY**
 [54] **ACCESSOIRE DE VEHICULE TACTILE CAPACITIF**
 [72] CARTER, CHAD, US
 [72] FACCHINELLO, JEROME, US
 [71] TECTUM HOLDINGS, INC., US
 [22] 2020-11-24
 [41] 2022-02-27
 [30] US (17/005,162) 2020-08-27

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[21] **3,100,639**
[13] A1

[51] **Int.Cl. A61K 47/18 (2017.01) A61K 31/137 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS OF TREATMENT FOR MOCCASIN-TYPE AND/OR INTERDIGITAL-TYPE TINEA PEDIS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DU PIED D'ATHLETE DE TYPE MOCASSIN ET/OU DE TYPE INTERDIGITE**
[72] THOMPSON, WALTER, US
[71] THERAPEUTICS, INC., US
[22] 2020-11-25
[41] 2022-03-03
[30] US (63/074,404) 2020-09-03

[21] **3,102,141**
[13] A1

[51] **Int.Cl. G01N 1/02 (2006.01) G01N 1/10 (2006.01)**
[25] EN
[54] **SAMPLE COLLECTION DEVICES**
[54] **DISPOSITIFS DE COLLECTE D'ECHANTILLONS**
[72] MIDE, CHRISTIAN, NO
[72] SCHON, JIMMY GIDO, NO
[71] CONCEPTOMED AS, NO
[22] 2020-12-09
[41] 2022-03-04
[30] GB (2013960.6) 2020-09-04
[30] GB (2015657.6) 2020-10-02

[21] **3,102,550**
[13] A1

[51] **Int.Cl. A61B 17/132 (2006.01) A41F 9/02 (2006.01) F16G 11/14 (2006.01) F41C 33/00 (2006.01)**
[25] EN
[54] **SUPPORT STRAP WITH INTEGRATED WINDLASS TOURNIQUET**
[54] **COURROIE DE SUPPORT AVEC GARROT TOURNIQUET INTEGRE**
[72] LARSON, KASEY, US
[72] SEIDEL, TROY, US
[71] LARSON, KASEY, US
[71] SEIDEL, TROY, US
[22] 2020-12-14
[41] 2022-02-28
[30] US (16/873,923) 2020-08-28

[21] **3,105,697**
[13] A1

[51] **Int.Cl. G01L 9/00 (2006.01)**
[25] EN
[54] **VIBRATING WIRE PIEZOMETER WITH MODIFIED WIRING**
[54] **PIEZOMETRE A FIL VIBRATOIRE A CABLAGE MODIFIE**
[72] MELNYCHUK, MICHAEL, CA
[71] PRECISE DOWNHOLE SERVICES LTD., CA
[22] 2021-01-12
[41] 2022-02-28
[30] US (63/071,693) 2020-08-28

[21] **3,105,738**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2012.01) H04N 21/2743 (2011.01) H04N 21/80 (2011.01) G16Y 40/20 (2020.01) H04N 5/262 (2006.01) H04N 7/18 (2006.01)**
[25] EN
[54] **REAL-TIME CRIME CENTER SOLUTION WITH DISPATCH DIRECTED DIGITAL MEDIA PAYLOADS**
[54] **SOLUTION DE CENTRE DU CRIME EN TEMPS REEL AVEC CHARGES UTILES DE CONTENU NUMERIQUE AXEES SUR LE DEPLOIEMENT**
[72] LINDENAU, CHRISTOPHER R., US
[72] BALDONI, ANTHONY C., US
[72] ROBINSON, DAVID A., US
[72] MERCHANT, SAHIL N., US
[71] FUSUS, LLC, US
[22] 2021-01-13
[41] 2022-03-04
[30] US (17/013,008) 2020-09-04

[21] **3,113,269**
[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 23/04 (2006.01) E21B 34/10 (2006.01)**
[25] EN
[54] **PORT SUB WITH DELAYED OPENING SEQUENCE**
[54] **REDUCTION D'ORIFICE AVEC SEQUENCE D'OUVERTURE RETARDEE**
[72] WATKINS, TOM, CA
[72] NAJAFOV, JEYHUN, CA
[71] ADVANCED UPSTREAM LTD., CA
[22] 2021-03-24
[41] 2022-02-28
[30] US (63/072,862) 2020-08-31

[21] **3,115,638**
[13] A1

[51] **Int.Cl. B65G 69/28 (2006.01)**
[25] EN
[54] **MODULAR LOADING DOCK WITH INTEGRATED LEVELER**
[54] **QUAI DE CHARGEMENT MODULAIRE AVEC VERIN INTEGRE**
[72] LEUM, GRANT, US
[72] DEMERATH, ERIC, US
[71] LEUM ENGINEERING, INC. D/B/A DOCKZILLA CO., US
[22] 2021-04-16
[41] 2022-03-04
[30] US (17/012,594) 2020-09-04

[21] **3,117,290**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR LEVERAGING REAL-TIME PAYMENTS FOR IDENTITY VALIDATION IN NON-FINANCIAL INTERACTIONS**
[54] **SYSTEMES ET METHODES SERVANT A UTILISER LES PAIEMENTS EN TEMPS REEL POUR LA VALIDATION D'IDENTITE DANS LE CADRE D'INTERACTIONS NON FINANCIERES**
[72] DIGANGI, FRANK A., US
[72] HANSON, CARRIE ANNE, US
[72] DAVID, DANIEL ALEXANDER, US
[72] WORTH, LOFTLON LINDSEY, US
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-05-06
[41] 2022-02-28
[30] US (17/006,205) 2020-08-28

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[21] **3,118,113**
[13] A1

[51] **Int.Cl. G07C 1/30 (2006.01) G06F 1/3287 (2019.01) G06F 3/041 (2006.01)**

[25] EN

[54] **PARKING METER HAVING TOUCHSCREEN DISPLAY**

[54] **PARCOMETRE AYANT UN AFFICHAGE TACTILE**

[72] MACKAY, GEORGE ALLAN, CA
[72] MACKAY, JAMES GEORGE, CA
[72] O'NEIL, ADRIAN IGNATIUS, CA
[72] CHAUVIN, GREGORY EMILE, CA
[72] ERSKINE, NEIL STUART, CA
[71] J.J. MACKAY CANADA LIMITED, CA

[22] 2021-05-12
[41] 2022-02-28
[30] US (17/005,479) 2020-08-28

[21] **3,118,122**
[13] A1

[51] **Int.Cl. A47J 43/07 (2006.01) A23L 25/10 (2016.01)**

[25] EN

[54] **PEANUT BUTTER MIXER SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE MELANGE DE BEURRE D'ARACHIDE**

[72] VENABLES, STACEY, CA
[71] VENABLES, STACEY, CA

[22] 2021-05-12
[41] 2022-03-01
[30] US (17/009,239) 2020-09-01

[21] **3,119,285**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G06Q 10/08 (2012.01) G06Q 50/30 (2012.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR OBTAINING AN INDICATION OF CARBON EMISSIONS BASED ON SHIPPING ROUTE AND TRANSPORTATION MODE PREDICTION**

[54] **METHODES ET SYSTEMES POUR OBTENIR UNE INDICATION DES EMISSIONS DE CARBONE EN FONCTION D'UNE PREDICTION AXEE SUR LE TRAJET D'EXPEDITION ET LE MODE DE TRANSPORT**

[72] SANCHEZ, IVAN, CA
[72] ITANEN, NIKLAS, CA
[72] GHORBANI, SIAVASH, CA
[72] SCHNEIDER, MICHAEL, CA
[71] SHOPIFY INC., CA

[22] 2021-05-20
[41] 2022-03-02
[30] US (17/010366) 2020-09-02
[30] EP (21169625.7) 2021-04-21

[21] **3,120,513**
[13] A1

[51] **Int.Cl. E21B 43/38 (2006.01) B01D 45/06 (2006.01)**

[25] EN

[54] **REVERSE FLOW GAS SEPARATOR**

[54] **SEPARATEUR DE GAZ A FLUX INVERSE**

[72] BROWN, DONN J., US
[72] KOPECKY, TREVOE ALAN, US
[72] NEWPORT, CASEY L., US
[71] HALIBURTON ENERGY SERVICES, INC., US

[22] 2021-06-01
[41] 2022-02-28
[30] US (17/006,121) 2020-08-28

[21] **3,121,038**
[13] A1

[51] **Int.Cl. G06F 16/50 (2019.01) G06V 10/00 (2022.01) G06V 20/40 (2022.01) G06Q 30/00 (2012.01)**

[25] EN

[54] **AUTOMATED IMAGE-BASED INVENTORY RECORD GENERATION SYSTEMS AND METHODS**

[54] **SYSTEMES ET METHODES AUTOMATISES DE GENERATION DE REGISTRES DE STOCKS FONDEE SUR LES IMAGES**

[72] NIHAS, GUDURU SAI, CA
[72] BATLOUNI, SALIM, CA
[71] SHOPIFY INC., CA

[22] 2021-06-04
[41] 2022-02-27
[30] US (17/004,159) 2020-08-27

[21] **3,121,056**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01) G06F 16/50 (2019.01) G06V 10/20 (2022.01) G06V 20/40 (2022.01)**

[25] EN

[54] **METHODS AND DEVICES FOR CAPTURING AN ITEM IMAGE**

[54] **METHODES ET DISPOSITIFS POUR CAPTURER UNE IMAGE D'ARTICLE**

[72] NIHAS, GUDURU SAI, CA
[72] BATLOUNI, SALIM, CA
[71] SHOPIFY INC., CA

[22] 2021-06-04
[41] 2022-03-02
[30] US (17/009,855) 2020-09-02
[30] EP (21173665.7) 2021-05-12

[21] **3,121,059**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06Q 30/06 (2012.01) G06F 16/95 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR USER AUTHENTICATION**

[54] **SYSTEMES ET PROCEDES D'AUTHENTIFICATION DE L'UTILISATEUR**

[72] GHORBANI, SIAVASH, CA
[71] SHOPIFY INC., CA

[22] 2021-06-04
[41] 2022-03-04
[30] US (17/012,866) 2020-09-04

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[21] **3,121,674**
[13] A1

[51] **Int.Cl. E03D 11/00 (2006.01)**
[25] EN
[54] **TOILET INSERT AND TOILET WITH SUCH A TOILET INSERT**
[54] **PIECE RAPPORTEE DE TOILETTE ET TOILETTE LA COMPORTANT**
[72] SUEPPMAYER, ANTON, DE
[71] SUEPPMAYER, ANTON, DE
[22] 2021-06-09
[41] 2022-02-28
[30] DE (20 2020 033 678.1) 2020-08-30

[21] **3,122,666**
[13] A1

[51] **Int.Cl. G01L 5/00 (2006.01) A01B 63/08 (2006.01) A01B 63/10 (2006.01) A01D 41/12 (2006.01) G01L 1/02 (2006.01) G01P 15/00 (2006.01)**
[25] EN
[54] **OBSTACLE DETECTION AND FIELD MAPPING FOR A WORK VEHICLE**
[54] **DETECTION DES OBSTACLES ET CARTOGRAPHIE DU TERRAIN POUR UN VEHICULE DE TRAVAIL**
[72] KARST, AUTIN J., US
[71] DEERE & COMPANY, US
[22] 2021-06-17
[41] 2022-02-28
[30] US (17/008,300) 2020-08-31

[21] **3,122,957**
[13] A1

[51] **Int.Cl. G01D 4/00 (2006.01) G01D 4/02 (2006.01)**
[25] EN
[54] **METROLOGY DEVICE SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT DE DISPOSITIF DE METROLOGIE**
[72] NELSON III, KIRBY K., US
[71] ITRON, INC., US
[22] 2021-06-18
[41] 2022-02-28
[30] US (63/072,020) 2020-08-28
[30] US (17/119,723) 2020-12-11

[21] **3,122,971**
[13] A1

[51] **Int.Cl. G01M 15/02 (2006.01) B64F 5/60 (2017.01)**
[25] EN
[54] **PORTABLE TEST STAND FOR AIRCRAFT ENGINES**
[54] **BANC D'ESSAI PORTATIF POUR DES MOTEURS D'AERONEF**
[72] MONAHAN, DOUGLAS, CA
[72] KAFKA, GABOR, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2021-06-21
[41] 2022-03-04
[30] US (17/013,018) 2020-09-04

[21] **3,122,978**
[13] A1

[51] **Int.Cl. H02K 41/02 (2006.01) H02K 1/06 (2006.01)**
[25] EN
[54] **LINEAR MOTOR**
[54] **MOTEUR LINEAIRE**
[72] AKIYAMA, TERUKAZU, JP
[72] IMAMORI, SATOSHI, JP
[72] KONNO, YUSUKE, JP
[71] FUJI ELECTRIC CO., LTD., JP
[22] 2021-06-23
[41] 2022-02-28
[30] JP (2020-145259) 2020-08-31

[21] **3,123,400**
[13] A1

[51] **Int.Cl. E03B 1/04 (2006.01) E03B 5/02 (2006.01) E03B 7/04 (2006.01)**
[25] EN
[54] **CONFIGURABLE MANIFOLD WATER DISTRIBUTION SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'EAU A COLLECTEUR CONFIGURABLE**
[72] THOMAS, MICHAEL JOHN, US
[72] NORTON, ALAN, US
[72] MASSA, GABRIEL J., US
[71] WALMART APOLLO, LLC, US
[22] 2021-06-28
[41] 2022-02-28
[30] US (17/008,522) 2020-08-31

[21] **3,123,547**
[13] A1

[51] **Int.Cl. H04N 21/238 (2011.01) H04N 21/2389 (2011.01) H04N 19/70 (2014.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DOWN-SAMPLED VIDEO ROUTING**
[54] **SYSTEMES ET METHODES POUR L'ACHEMINEMENT VIDEO SOUS-ECHANTILLONNE**
[72] PATEL, RAKESH THAKOR, CA
[72] WEI, JEFF, CA
[71] EVERTZ MICROSYSTEMS LTD., CA
[22] 2021-06-29
[41] 2022-02-28
[30] US (63/072,265) 2020-08-31

[21] **3,124,337**
[13] A1

[51] **Int.Cl. A61C 13/007 (2006.01) A61C 8/00 (2006.01) A61C 13/10 (2006.01) A61C 13/277 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A DENTAL PROsthESIS, BLANK AND DENTAL PROsthESIS**
[54] **METHODE DE PRODUCTION D'UNE PROTHESE DENTAIRE, DECOUPE ET PROTHESE DENTAIRE**
[72] ANDREAS, HAFELE CLEMENS, AT
[72] FREI, ROGER, CH
[72] KONRAD, HAGENBUCH, CH
[72] MARKUS, GEIER, IT
[72] FRANK, FRENZEL, DE
[71] IVOCCLAR VIVADENT AG, LI
[22] 2021-06-25
[41] 2022-03-02
[30] EP (20 194 147.3) 2020-09-02

[21] **3,124,382**
[13] A1

[51] **Int.Cl. G09F 7/18 (2006.01)**
[25] EN
[54] **TILE HOLDER**
[54] **SUPPORT A CARREAU**
[72] CULHANE, JEFFREY JAMES, US
[71] CULHANE, JEFFREY JAMES, US
[22] 2021-07-13
[41] 2022-02-27
[30] US (17/004,862) 2020-08-27

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[21] **3,124,646**
[13] A1

[51] **Int.Cl. A01B 63/111 (2006.01)**
[25] EN
[54] **TILT SYSTEM FIELD LEARNING AND OPTIMIZATION FOR A WORK VEHICLE**

[54] **APPRENTISSAGE ET OPTIMISATION SUR LE TERRAIN D'UN SYSTEME D'INCLINAISON POUR UN VEHICULE DE TRAVAIL**

[72] KARST, AUSTIN J., US
[71] DEERE & COMPANY, US
[22] 2021-07-14
[41] 2022-02-28
[30] US (17/008,306) 2020-08-31

[21] **3,125,376**
[13] A1

[51] **Int.Cl. C22B 1/06 (2006.01) B01D 11/02 (2006.01) C22B 3/04 (2006.01) C22B 23/00 (2006.01)**

[25] EN
[54] **THE PROCESS OF COLLECTING NICKEL, COBALT AND OTHER METALS FROM LATERITE NICKEL ORE**

[54] **PROCEDE DE COLLECTE DU NICKEL, DU COBALT ET D'AUTRES METAUX A PARTIR D'UN MINERAL DE NICKEL LATERITE**

[72] SATRIA, MARJOHAN, ID
[72] WEN, ZHU YAN, CN
[72] ZHONG, SHI, AU
[71] PT. HYDROTECH METALS INDONESIA, ID
[22] 2021-07-21
[41] 2022-03-01
[30] ID (P00202006394) 2020-09-01

[21] **3,125,823**
[13] A1

[51] **Int.Cl. C08L 61/00 (2006.01) A61L 11/00 (2006.01) B29B 17/00 (2006.01) C08J 11/04 (2006.01) D21H 17/01 (2006.01)**

[25] EN
[54] **HIGH-CARBON RECOVERED PAPER AND PLASTIC MATERIALS WITH REDUCED ENDOTOXIN LEVELS**

[54] **MATIERES DE PAPIER ET DE PLASTIQUE RECUPEREES A HAUTE TENEUR EN CARBONE ET A NIVEAUX D'ENDOTOXINE REDUITS**

[72] WINTEROWD, JACK, US
[72] SPENCER, MATTHEW, US
[72] SCHELLER, HENRY, US
[72] PASTORE, VINCENT, US
[71] CONTINUUS MATERIALS INTELLECTUAL PROPERTY, LLC, US
[22] 2021-07-23
[41] 2022-02-28
[30] US (17/007,678) 2020-08-31

[21] **3,125,867**
[13] A1

[51] **Int.Cl. A01N 43/10 (2006.01) A01N 25/18 (2006.01) A01N 43/08 (2006.01) A01P 5/00 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01)**

[25] EN
[54] **FUMIGANT COMPOSITION FOR PEST CONTROL**

[54] **COMPOSITION DE FUMIGANT POUR LE CONTROLE DES NUISIBLES**

[72] MENG, MENGHSIAO, TW
[72] DAI, SHU-MEI, TW
[72] LEU, WEI-MING, TW
[72] LEE, CHENG-CHENG, TW
[72] LIN, YING-TONG, TW
[72] HUANG, SHENG, TW
[71] NATIONAL CHUNG HSING UNIVERSITY, CN
[22] 2021-07-23
[41] 2022-03-04
[30] TW (109130409) 2020-09-04

[21] **3,126,513**
[13] A1

[51] **Int.Cl. A01B 63/111 (2006.01) A01B 63/10 (2006.01) A01D 41/06 (2006.01) A01D 47/00 (2006.01) G05B 19/042 (2006.01)**

[25] EN
[54] **AUTOMATED HEADER FLOAT OPTIMIZATION AND FIELD LEARNING FOR A WORK VEHICLE**

[54] **OPTIMISATION AUTOMATISEE DE FLOTTEUR DE TABLIER ET CONNAISSANCE DU TERRAIN POUR UN VEHICULE DE TRAVAIL**

[72] KARST, AUSTIN J., US
[71] DEERE & COMPANY, US
[22] 2021-07-30
[41] 2022-02-28
[30] US (17/008,312) 2020-08-31

[21] **3,126,516**
[13] A1

[51] **Int.Cl. A01B 63/111 (2006.01) A01B 63/10 (2006.01) A01D 41/06 (2006.01) A01D 47/00 (2006.01) G05B 19/042 (2006.01)**

[25] EN
[54] **AUTOMATED HEADER FLOAT OPTIMIZATION AND FIELD LEARNING FOR A WORK VEHICLE**

[54] **OPTIMISATION AUTOMATISEE DE FLOTTEUR DE TABLIER ET CONNAISSANCE DU TERRAIN POUR UN VEHICULE DE TRAVAIL**

[72] KARST, AUSTIN J., US
[71] DEERE & COMPANY, US
[22] 2021-07-30
[41] 2022-02-28
[30] US (17/008,312) 2020-08-31

[21] **3,126,517**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2012.01) G06Q 10/08 (2012.01) G06Q 30/02 (2012.01) G09F 7/00 (2006.01)**

[25] EN
[54] **MANAGEMENT OF DISPLAY FIXTURES**

[54] **GESTION DES APPAREILS DE PRESENTATION**

[72] VISE, SAMUEL ARTHUR, CA
[71] UNEFI INC., CA
[22] 2021-07-30
[41] 2022-02-28
[30] US (63/071,484) 2020-08-28

**Canadian Applications Open to Public Inspection
February 27, 2022 to March 5, 2022**

[21] **3,126,559**
[13] A1

[51] **Int.Cl. H02G 3/08 (2006.01) A47B 91/02 (2006.01) A47B 96/00 (2006.01) F16B 35/00 (2006.01) F16M 1/08 (2006.01) H02B 1/03 (2006.01)**

[25] EN

[54] **PLUMB ADJUSTER FOR ELECTRICAL ENCLOSURE**

[54] **AJUSTEUR D'APLOMB POUR ENCEINTE ELECTRIQUE**

[72] HAGEN, BRIAN, US

[71] MILBANK MANUFACTURING CO., US

[22] 2021-07-30

[41] 2022-03-03

[30] US (17/011510) 2020-09-03

[21] **3,126,563**
[13] A1

[51] **Int.Cl. A01B 69/00 (2006.01) B62D 9/00 (2006.01) B62D 11/00 (2006.01)**

[25] EN

[54] **METHOD OF CONTROLLING A DIFFERENTIAL MOTOR TORQUE STEERING SYSTEM OF A WORKING MACHINE AND SYSTEM THEREOF**

[54] **METHODE DE CONTROLE D'UN SYSTEME DE COMMANDE DE COUPLE DE MOTEUR DIFFERENTIEL D'UNE MACHINE DE TRAVAIL ET SYSTEME CONNEXE**

[72] KARST, AUSTIN J., US

[72] WANNER, JASON J., US

[71] DEERE & COMPANY, US

[22] 2021-07-30

[41] 2022-03-03

[30] US (17/011,078) 2020-09-03

[21] **3,126,586**
[13] A1

[51] **Int.Cl. G01C 9/24 (2006.01)**

[25] EN

[54] **LEVELING INSTRUMENT WITH MULTIPLE SENSITIVITIES**

[54] **INSTRUMENT DE MISE A NIVEAU PRESENTANT DE MULTIPLES NIVEAUX DE SENSIBILITE**

[72] PANOSIAN, MICHAEL, US

[72] KEELER, JOSHUA, US

[71] TOUGHBUILT INDUSTRIES, INC., US

[22] 2021-08-02

[41] 2022-02-28

[30] US (17/005,836) 2020-08-28

[21] **3,126,673**
[13] A1

[51] **Int.Cl. G06V 20/00 (2022.01) G01C 21/00 (2006.01)**

[25] EN

[54] **AUTOMATED ANALYSIS OF IMAGE CONTENTS TO DETERMINE THE ACQUISITION LOCATION OF THE IMAGE**

[54] **ANALYSE AUTOMATISEE DE CONTENUS D'IMAGE POUR DETERMINER L'EMPLACEMENT D'ACQUISITION DE L'IMAGE**

[72] MOULON, PIERRE, US

[72] KHOSRAVAN, NAJI, US

[72] LI, YUGUANG, US

[72] LI, YUJIE, US

[72] BOYADZHIEV, IVAYLO, US

[71] ZILLOW, INC., US

[22] 2021-08-04

[41] 2022-03-04

[30] US (17/013,323) 2020-09-04

[21] **3,126,807**
[13] A1

[51] **Int.Cl. E01F 15/06 (2006.01) E04H 17/26 (2006.01)**

[25] EN

[54] **SYSTEM, METHOD, AND APPARATUS FOR CABLE BARRIER**

[54] **SYSTEME, METHODE ET APPAREIL DE BARRIERE CABLEE**

[72] FAULKENBERRY, RONALD, US

[72] MCGEE, JERRY, US

[72] NEUSCH, WILLIAM, US

[71] GIBRALTAR GLOBAL, LLC, US

[22] 2021-08-05

[41] 2022-02-28

[30] US (17/006207) 2020-08-28

[21] **3,126,850**
[13] A1

[51] **Int.Cl. G01R 29/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS TO ANALYZE WAVEFORMS FROM MULTIPLE DEVICES IN POWER SYSTEMS**

[54] **SYSTEMES ET METHODES POUR ANALYSER LES FORMES D'ONDE DE MULTIPLES DISPOSITIFS DANS LES SYSTEMES DE PUISSANCE**

[72] MENZEL, JOHANNES, FR

[72] BICKEL, JON ANDREW, US

[71] SCHNEIDER ELECTRIC USA, INC., US

[22] 2021-08-05

[41] 2022-03-01

[30] US (17/009,208) 2020-09-01

[21] **3,126,994**
[13] A1

[51] **Int.Cl. A47J 36/00 (2006.01) A47J 45/06 (2006.01)**

[25] EN

[54] **VESSEL FOR COOKING FOOD PROVIDED WITH A THERMAL SIGNALING DEVICE**

[54] **RECIPIENT POUR CUIRE DES ALIMENTS COMPRENANT UN DISPOSITIF DE SIGNALEMENT THERMIQUE**

[72] FERRON, FRANCESCO, IT

[71] ZWILLING BALLARINI ITALIA S.R.L., IT

[22] 2021-08-06

[41] 2022-03-01

[30] IT (202020000005014) 2020-09-01

[21] **3,127,349**
[13] A1

[51] **Int.Cl. G02B 7/00 (2021.01) H04B 10/11 (2013.01) H04B 10/118 (2013.01) G02B 23/16 (2006.01) G02B 26/08 (2006.01) G02B 27/30 (2006.01)**

[25] EN

[54] **OPTICAL APPARATUS**

[54] **APPAREIL OPTIQUE**

[72] DUCCELLIER, THOMAS, US

[72] SCOTT, ALAN, US

[72] ZHENG, SHENG HAI, US

[71] COM DEV LTD., CA

[22] 2021-08-10

[41] 2022-02-28

[30] US (17/005649) 2020-08-28

Demandes canadiennes mises à la disponibilité du public

27 février 2022 au 5 mars 2022

[21] **3,127,790**
[13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) H04W 4/02 (2018.01) H04W 84/12 (2009.01) H05B 47/19 (2020.01) G01S 5/14 (2006.01)**

[25] EN

[54] **LIGHTING SYSTEM FOR LOCATING WIRELESS FLOOR BEACONS IN A SPACE**

[54] **SYSTEME D'ECLAIRAGE POUR SITUER DES BALISES DE SOL SANS FIL DANS UN ESPACE**

[72] GEORGE, SAJIN, US

[72] ABOU-RIZK, MITRI J., US

[72] MALANDRAKIS, EMANUEL P., US

[72] SERPA, SEAN, US

[71] ABL IP HOLDING LLC, US

[22] 2021-08-11

[41] 2022-03-03

[30] US (17/011,000) 2020-09-03

[21] **3,127,821**
[13] A1

[51] **Int.Cl. G02B 7/00 (2021.01) G02B 23/16 (2006.01) G02B 26/08 (2006.01) G02B 27/30 (2006.01)**

[25] EN

[54] **OPTICAL APPARATUS**

[54] **APPAREIL OPTIQUE**

[72] DUCELLIER, THOMAS, US

[72] SCOTT, ALAN, US

[72] ZHENG, SHENG HAI, US

[71] COM DEV LTD., CA

[22] 2021-08-10

[41] 2022-02-28

[30] US (17/005649) 2020-08-28

[21] **3,127,880**
[13] A1

[51] **Int.Cl. E03C 1/05 (2006.01) F16K 31/02 (2006.01)**

[25] EN

[54] **CONDUCTIVE BONNET NUT FOR AN ELECTRONIC FAUCET**

[54] **ECROU DE CHAPEAU CONDUCTEUR POUR UN ROBINET ELECTRIQUE**

[72] DEVRIES, ADAM M., US

[71] DELTA FAUCET COMPANY, US

[22] 2021-08-12

[41] 2022-03-04

[30] US (17/012,850) 2020-09-04

[21] **3,128,076**
[13] A1

[51] **Int.Cl. G06F 16/906 (2019.01) G06F 16/35 (2019.01) G06F 16/93 (2019.01) G06F 40/279 (2020.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DOCUMENT MANAGEMENT AND COLLABORATION**

[54] **SYSTEME ET METHODE DE GESTION ET DE COLLABORATION DE DOCUMENTS**

[72] SHEIKH, DANIEL, CA

[72] MUSTAFA, LAIBA, CA

[72] LIU, THOMAS, CA

[72] YANG, SOPHIA, CA

[72] SHAH, MANISH K., CA

[72] KHODAK, LEAH, CA

[72] KUZNETSOV, LEV, CA

[71] ROYAL BANK OF CANADA, CA

[22] 2021-08-12

[41] 2022-02-28

[30] US (63/071,745) 2020-08-28

[21] **3,128,125**
[13] A1

[51] **Int.Cl. C02F 3/00 (2006.01) B29C 43/44 (2006.01) C02F 3/10 (2006.01)**

[25] EN

[54] **TEXTURED CORE SHEETS FOR FLUID DRAINAGE UNIT**

[54] **FEUILLES DE NOYAU TEXTUREES POUR UNE UNITE DE DRAINAGE DE FLUIDES**

[72] KING, JAMES M., US

[72] MOORE, SCOTT, US

[71] ELJEN CORPORATION, US

[22] 2021-08-13

[41] 2022-03-01

[30] US (63/073,250) 2020-09-01

[21] **3,128,140**
[13] A1

[51] **Int.Cl. B62D 9/00 (2006.01)**

[25] EN

[54] **METHOD OF A VARIABLE STEERING RESPONSE FOR DIFFERENT STEERING OPERATIONS OF A WORKING MACHINE AND SYSTEM THEREOF**

[54] **METHODE D'UNE REPONSE DE DIRECTION VARIABLE POUR DIVERSES OPERATIONS DE DIRECTION D'UNE MACHINE DE TRAVAIL ET SYSTEME CONNEXE**

[72] KARST, AUSTIN, US

[72] WANNER, JASON J., US

[71] DEERE & COMPANY, US

[22] 2021-07-21

[41] 2022-03-03

[30] US (17/011,029) 2020-09-03

[21] **3,128,207**
[13] A1

[51] **Int.Cl. G06Q 50/30 (2012.01) G06Q 10/10 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MANAGING ASSOCIATIONS BETWEEN DAMAGED PARTS AND NON-REUSABLE PARTS IN A COLLISION REPAIR ESTIMATE**

[54] **SYSTEMES ET METHODES POUR GERER DES ASSOCIATIONS ENTRE DES PIECES ENDOMMAGEES ET DES PIECES NON REUTILISABLES DANS UN ESTIME DE REPARATION SUIVANT UNE COLLISION**

[72] GASTINEAU, JERRY, US

[72] MACLEAN, GREG, US

[72] SUSANA, RANDY, US

[71] MITCHELL INTERNATIONAL, INC., US

[22] 2021-08-13

[41] 2022-02-27

[30] US (17/005,237) 2020-08-27

**Canadian Applications Open to Public Inspection
February 27, 2022 to March 5, 2022**

[21] **3,128,218**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06Q 50/10 (2012.01) G06F 16/95 (2019.01) G06N 20/00 (2019.01)**

[25] EN

[54] **WEB APPLICATION FOR SERVICE RECOMMENDATIONS WITH MACHINE LEARNING**

[54] **APPLICATION WEB POUR DES RECOMMANDATIONS DE SERVICE A L'AIDE L'APPRENTISSAGE AUTOMATIQUE**

[72] GONCALVES, KELLY, CA
[72] GOLDMAN, RUSSELL, CA
[72] PARYAB, NEDA, CA
[72] KAPAHI, SIDHANT, CA
[72] WINSLOW, MARIA, CA
[72] LAM, CHAI, CA
[72] MCISAAC, HANNAH, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-08-12
[41] 2022-03-02
[30] US (63/073,786) 2020-09-02

[21] **3,128,291**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2012.01) G06N 20/00 (2019.01) G06Q 30/00 (2012.01) G06Q 40/00 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR INTELLIGENT RESOURCE MANAGEMENT**

[54] **SYSTEME ET METHODE DE GESTION DES RESSOURCES INTELLIGENTE**

[72] MA, MARY XIAOYU, CA
[72] GRITTER, JOEL AIDAN, CA
[72] HASMANI, INAARA, CA
[72] PRAYOGO, NICHOLAS ANDRIEN, CA
[72] HABIB, IMRAN, CA
[72] STANTON, RICHARD, CA
[72] HAGUE, JENNA, CA
[72] CHENG, VICTOR, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-08-13
[41] 2022-02-28
[30] US (63/071,704) 2020-08-28

[21] **3,128,533**
[13] A1

[51] **Int.Cl. F01D 11/08 (2006.01) F01D 9/04 (2006.01) F02C 7/28 (2006.01)**

[25] EN

[54] **STATOR ASSEMBLY FOR COMPRESSOR MID-PLANE ROTOR BALANCING AND SEALING IN GAS TURBINE ENGINE**

[54] **ENSEMBLE STATOR POUR L'EQUILIBRAGE DU ROTOR DE PLAN MEDIAN D'UN COMPRESSEUR ET LE SCELLAGE DANS UNE TURBINE A GAZ**

[72] BURTON, DAVID A., US
[72] TSE, KWOK-KWONG BEN, US
[72] LAU, DAVID, US
[71] SOLAR TURBINES INCORPORATED, US
[22] 2021-08-17
[41] 2022-03-01
[30] US (17/009469) 2020-09-01

[21] **3,128,247**
[13] A1

[51] **Int.Cl. H04N 7/18 (2006.01) B63B 21/66 (2006.01) B63C 11/48 (2006.01) B63G 8/14 (2006.01) B63G 8/42 (2006.01) G03B 15/02 (2021.01) G03B 17/08 (2021.01)**

[25] EN

[54] **TOWED UNDERWATER IMAGE ACQUISITION SYSTEM, APPARATUS AND METHOD**

[54] **SYSTEME D'ACQUISITION D'IMAGE SOUS-MARINE TRAINÉ, APPAREIL ET METHODE**

[72] LIU, SHIWEI, CA
[72] CHENG, XIAOGE, CN
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[71] MARINE THINKING INC., CA
[22] 2021-08-13
[41] 2022-02-27
[30] CA (3091252) 2020-08-27
[30] US (63079133) 2020-09-16

[21] **3,128,371**
[13] A1

[51] **Int.Cl. B22D 17/20 (2006.01) B22D 41/02 (2006.01)**

[25] EN

[54] **FOUNDRY COMPONENT HAVING AN ANTICORROSION LAYER STRUCTURE**

[54] **COMPOSANTE DE FONDERIE AYANT UNE STRUCTURE DE COUCHE ANTICORROSION**

[72] DANNENMANN, HELMAR, DE
[72] BAESGEN, ALEXANDER, DE
[71] OSKAR FRECH GMBH+CO. KG, DE
[22] 2021-08-13
[41] 2022-02-28
[30] DE (102020210913.3) 2020-08-28

[21] **3,128,623**
[13] A1

[51] **Int.Cl. E05B 15/00 (2006.01)**

[25] EN

[54] **TRANSMISSION MECHANISM AND LOCK**

[54] **MECANISME DE TRANSMISSION ET VERROU**

[72] HUANG, CHAO-MING, TW
[71] TAIWAN FU HSING INDUSTRIAL CO., LTD., TW
[22] 2021-08-18
[41] 2022-02-27
[30] TW (109211166) 2020-08-27

[21] **3,128,638**
[13] A1

[51] **Int.Cl. F16L 29/04 (2006.01) B67D 7/32 (2010.01) B67D 7/38 (2010.01) F16L 37/30 (2006.01)**

[25] EN

[54] **BREAKAWAY ASSEMBLY**

[54] **ASSEMBLAGE D'ECARTEMENT**

[72] CLEVER, BRYAN WILLIAM, US
[72] ABELN, KATE MARIE, US
[71] OPW FUELING COMPONENTS, LLC, US
[22] 2021-08-19
[41] 2022-02-28
[30] US (17/005.700) 2020-08-28

Demandes canadiennes mises à la disponibilité du public

27 février 2022 au 5 mars 2022

[21] **3,128,650**
[13] A1

[51] **Int.Cl. B25B 23/142 (2006.01) H04W 4/38 (2018.01) H04W 76/18 (2018.01)**

[25] EN

[54] **WIRELESS TORQUE WRENCH WITH TORQUE SPECIFICATIONS**

[54] **CLE DYNAMOMETRIQUE SANS FIL AVEC PARAMETRES DE COUPLE**

[72] KING, JERRY A., US

[72] LEE, NATHAN J., US

[72] LAWTON, CHRISTOPHER, US

[71] SNAP-ON INCORPORATED, US

[22] 2021-08-19

[41] 2022-02-28

[30] US (17/007,546) 2020-08-31

[21] **3,128,662**
[13] A1

[51] **Int.Cl. B65G 27/32 (2006.01) B65G 27/10 (2006.01)**

[25] EN

[54] **OSCILLATING CONVEYOR HAVING A CONTROL DEVICE**

[54] **CONVOYEUR OSCILLANT AYANT UN DISPOSITIF DE COMMANDE**

[72] MESAN, IZUDIN, DE

[72] DURAND, FRIEDRICH, DE

[72] BOTT, KLAUS, DE

[71] AFAG HOLDING AG, CH

[22] 2021-08-19

[41] 2022-03-04

[30] DE (102020123195.4) 2020-09-04

[21] **3,128,669**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01) G06Q 20/06 (2012.01) G06F 16/27 (2019.01)**

[25] EN

[54] **BLOCKCHAIN SYSTEM THAT INCLUDES BANK NODES EACH HAVING SEPARATE LEDGERS FOR IDENTITY, DIGITAL CURRENCY AND OTHER FUNCTIONS, AND OPERATION METHOD THEREOF**

[54] **SYSTEME DE CHAINE DE BLOCS COMPRENANT DES NOEUDS DE BANQUE AYANT CHACUN UN GRAND LIVRE SEPARÉ POUR L'IDENTITE, LA DEVISE NUMERIQUE ET D'AUTRES FONCTIONS, ET METHODE D'EXPLOITATION CONNEXE**

[72] YUN, SEOK GU, KR

[71] SOVEREIGN WALLET CO., LTD., KR

[22] 2021-08-20

[41] 2022-03-01

[30] KR (10-2020-0110742) 2020-09-01

[21] **3,128,698**
[13] A1

[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/35 (2014.01)**

[25] EN

[54] **A METHOD FOR A GAMING SYSTEM**

[54] **METHODE DE SYSTEME DE JEU**

[72] MILIZIANO, CHARLOTTE, MT

[72] HORVATH, ZOLTAN, MT

[71] PLAY'N GO MARKS LTD, MT

[22] 2021-08-20

[41] 2022-02-27

[30] SE (2050994-9) 2020-08-27

[21] **3,128,714**
[13] A1

[51] **Int.Cl. E05B 15/10 (2006.01) E05B 63/04 (2006.01) E05B 63/08 (2006.01) E05C 1/08 (2006.01) E05C 21/00 (2006.01)**

[25] EN

[54] **REVERSIBLE LATCHBOLT**

[54] **BOULON DE VERROUILLAGE REVERSIBLE**

[72] RILEY, DANIEL W., US

[71] ASSA ABLOY ACCESS AND EGRESS HARDWARE GROUP, INC., US

[22] 2021-08-23

[41] 2022-02-28

[30] US (17/006,425) 2020-08-28

[21] **3,128,716**
[13] A1

[51] **Int.Cl. B25F 5/02 (2006.01) H02K 5/20 (2006.01) H02K 9/02 (2006.01)**

[25] EN

[54] **TOOL HOUSING AND MOTOR EXHAUST MANAGEMENT**

[54] **LOGEMENT D'OUTIL ET GESTION DE L'ÉCHAPPEMENT DE MOTEUR**

[72] CYBORSKI, DAVID A., US

[71] SNAP-ON INCORPORATED, US

[22] 2021-08-23

[41] 2022-03-02

[30] US (17/010,528) 2020-09-02

[21] **3,128,750**
[13] A1

[51] **Int.Cl. A47G 21/00 (2006.01)**

[25] EN

[54] **STACKABLE CUTLERY**

[54] **USTENSILES EMPILABLES**

[72] RAU, ROBERT WILLIAM, US

[72] NORMAN, MARCUS JEFFERY, US

[71] DART CONTAINER CORPORATION, US

[22] 2021-08-23

[41] 2022-03-02

[30] US (63/073,683) 2020-09-02

[21] **3,128,777**
[13] A1

[51] **Int.Cl. B68G 5/02 (2006.01) A47C 27/05 (2006.01) A47C 27/14 (2006.01)**

[25] EN

[54] **MATTRESS TOPPER INCLUDING CONVOLUTED FOAM LAYER**

[54] **COUVRE-MATELAS COMPRENANT UNE COUCHE DE MOUSSE CIRCONVOLUEE**

[72] SIEBER, LINDSEY B., US

[72] MCGUIRE, SHERI, US

[71] DREAMWELL, LTD., US

[22] 2021-08-23

[41] 2022-02-27

[30] US (17/004,705) 2020-08-27

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[21] **3,128,792**
[13] A1

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[25] EN
[54] **A MODULAR PLATFORM SYSTEM AND METHOD OF ASSEMBLY**
[54] **SYSTEME DE PLATEFORME MODULAIRE ET METHODE D'ASSEMBLAGE**
[72] HUSS, PHILIP, US
[72] MOUGHLER, JOHN, US
[71] WEARWELL, LLC, US
[22] 2021-08-24
[41] 2022-03-03
[30] US (17/011,169) 2020-09-03

[21] **3,128,797**
[13] A1

[51] **Int.Cl. F16B 12/08 (2006.01) F16B 5/06 (2006.01) F16B 7/04 (2006.01) F16B 7/10 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A TUBE SNAP FASTENING ARRANGEMENT**
[54] **METHODE DE FABRICATION D'UNE CONFIGURATION D'ATTACHE-PRESSION DE TUBE**
[72] OMBACK, STELLAN, SE
[72] DAHLBERG, FREDRIK, SE
[71] ROL AB, SE
[22] 2021-08-20
[41] 2022-02-28
[30] EP (20193250.6) 2020-08-28

[21] **3,128,815**
[13] A1

[51] **Int.Cl. B60T 13/66 (2006.01) B60T 17/18 (2006.01) B61H 13/00 (2006.01)**
[25] EN
[54] **VEHICLE BRAKE CONTROL SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE COMMANDE DE FREIN DE VEHICULE**
[72] POTTER, WILLIAM JOHN, US
[72] GAUGHAN, EDWARD W., US
[71] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[22] 2021-08-24
[41] 2022-02-27
[30] US (63/070,898) 2020-08-27
[30] US (17/397,766) 2021-08-09

[21] **3,128,853**
[13] A1

[51] **Int.Cl. A45F 3/04 (2006.01)**
[25] EN
[54] **BAG OR RUCKSACK**
[54] **SAC OU SAC A DOS**
[72] WERZ, MATTHIAS, DE
[71] ADVENATE GMBH, DE
[22] 2021-08-17
[41] 2022-02-27
[30] DE (10 2020 122 461.3) 2020-08-27

[21] **3,128,884**
[13] A1

[51] **Int.Cl. B27K 3/34 (2006.01)**
[25] EN
[54] **WOOD WITH STRENGTHENING COATING**
[54] **BOIS AVEC REVETEMENT DE RENFORCEMENT**
[72] JORDAN, ROBERT B., IV, US
[72] HILSINGER, RYAN, US
[72] HURLBURT, IVAN, US
[71] TOUGH BY NATURE, LLC, US
[22] 2021-08-25
[41] 2022-02-28
[30] US (63/071,853) 2020-08-28
[30] US (63/138,865) 2021-01-19
[30] US (63/152,901) 2021-02-24
[30] US (17/408,754) 2021-08-23

[21] **3,128,893**
[13] A1

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/10 (2006.01)**
[25] EN
[54] **WELDING-TYPE POWER SUPPLIES WITH JOB SPECIFIC WELD MONITORING SYSTEMS**
[54] **SOURCES D'ALIMENTATION DE TYPE SOUDAGE ET SYSTEMES DE SURVEILLANCE DE SOUDAGE SPECIFIQUES A LA TACHE**
[72] ZWAYER, JAKE BRADLEY, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-08-25
[41] 2022-02-28
[30] US (63/072,637) 2020-08-31
[30] US (17/404,107) 2021-08-17

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[13] A1

[51] **Int.Cl. H04B 17/15 (2015.01)**
[25] EN
[54] **TERMINAL RADIO CHARACTERIZATION**
[54] **CARACTERISATION D'UNE RADIO TERMINALE**
[72] REGUNATHAN, MURALI, US
[72] RICKER, DOUGLAS, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[22] 2021-08-25
[41] 2022-02-27
[30] US (17/004,736) 2020-08-27

[21] **3,128,909**
[13] A1

[51] **Int.Cl. B61K 9/12 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR WEAR DETECTION OF RAILROAD VEHICLE WHEELS**
[54] **APPAREIL ET METHODE DE DETECTION DE L'USURE DES ROUES DE VEHICULES POUR CHEMIN DE FER**
[72] BRAREN, HARK, US
[72] FROHBERG, ERIK KARL, US
[71] BNSF RAILWAY COMPANY, US
[22] 2021-08-25
[41] 2022-03-01
[30] US (17/009,297) 2020-09-01

[21] **3,128,920**
[13] A1

[51] **Int.Cl. B65F 3/00 (2006.01) B62J 17/08 (2020.01) E04F 10/00 (2006.01) E04H 15/08 (2006.01) E04H 15/58 (2006.01)**
[25] EN
[54] **ADJUSTABLE CANOPY FOR A REFUSE VEHICLE**
[54] **AUVENT AJUSTABLE POUR UN VEHICULE A ORDURES**
[72] NELSON, JOSEPH, US
[72] SHIRLEY, JERRY, US
[72] BEHRENS, REID, US
[71] OSHKOSH CORPORATION, US
[22] 2021-08-25
[41] 2022-02-28
[30] US (17/006,415) 2020-08-28

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[13] A1

[51] **Int.Cl. F24C 15/16 (2006.01) A21B 1/42 (2006.01) A21B 1/44 (2006.01) A47J 37/04 (2006.01) A47J 37/07 (2006.01) F24C 3/00 (2006.01)**

[25] EN
[54] **A ROTARY-PAN PIZZA OVEN**
[54] **FOUR A PIZZA PANORAMIQUE-ROTATIF**

[72] YAN, MENGWEI, CN
[71] DONGGUAN HAOHONG OUTDOOR PRODUCTS TECHNOLOGY CO., LTD, CN

[22] 2021-08-26
[41] 2022-02-28
[30] CN (202021863991.3) 2020-08-31
[30] CN (202021863920.3) 2020-08-31

[21] **3,128,988**
[13] A1

[51] **Int.Cl. H02J 3/00 (2006.01) G05B 19/042 (2006.01) H02J 13/00 (2006.01) H02J 15/00 (2006.01) G05D 23/19 (2006.01)**

[25] EN
[54] **TIMING AND DYNAMIC INPUT SELECTION FOR POWER-STEALING CIRCUITS IN SMART-HOME DEVICES**

[54] **SYNCHRONISATION ET SELECTION D'ENTREE DYNAMIQUE POUR DES CIRCUITS D'ABSORPTION DANS DES DISPOSITIFS DOMESTIQUES INTELLIGENTS**

[72] WARREN, DANIEL ADAM, US
[72] MITCHELL, MICHAEL, US
[71] GOOGLE LLC, US

[22] 2021-08-26
[41] 2022-02-28
[30] US (17/006,786) 2020-08-29
[30] US (17/006,787) 2020-08-29

[21] **3,128,990**
[13] A1

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[25] EN
[54] **AUTOMATIC-STRAP-FEEDING SYSTEM FOR FEEDING STRAP INTO A STRAPPING MACHINE**

[54] **SYSTEME D'ALIMENTATION DE COURROIE AUTOMATIQUE POUR ALIMENTER UNE COURROIE DANS UNE CERCLEUSE**

[72] LANGVIK, MIKKO, FI
[72] KYVHKYNNEN, JANI PETTERI, FI
[71] LILJENDALS BRUK AB, FI

[22] 2021-08-26
[41] 2022-02-28
[30] EP (EP20193441) 2020-08-28

[21] **3,129,001**
[13] A1

[51] **Int.Cl. A47B 47/02 (2006.01) A47B 53/00 (2006.01) A47B 81/00 (2006.01)**

[25] EN
[54] **RACK FOR A DATA CENTER**
[54] **RATELIER POUR UN CENTRE INFORMATIQUE**

[72] BONENFANT, JULES HERMANN, FR
[72] CARTIGNY, VALENTIN, FR
[72] KLABA, HENRYK, FR
[71] OVH, FR

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[41] 2022-02-28
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[21] **3,129,003**
[13] A1

[51] **Int.Cl. B27G 23/00 (2006.01) B27L 1/00 (2006.01) G06N 3/02 (2006.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR CHARACTERIZING UNDEBARKED WOODEN LOGS AND COMPUTING OPTIMAL DEBARKING PARAMETERS IN REAL TIME**

[54] **METHODE ET SYSTEME DE CARACTERISATION DE BUCHES DESECORCEES ET DE CALCUL DES PARAMETRES D'ECORCAGE OPTIMAUX EN TEMPS REEL**

[72] CLEMENT, FRANCIS, CA
[72] MORISSETTE, GUY, CA
[71] BID GROUP TECHNOLOGIES LTD., CA

[22] 2021-08-26
[41] 2022-02-27
[30] US (63/070,887) 2020-08-27

[21] **3,129,006**
[13] A1

[51] **Int.Cl. E04F 10/08 (2006.01) E04H 1/12 (2006.01)**

[25] EN
[54] **POWER DELIVERY ASSEMBLY AND COMPONENTS THEREOF**

[54] **ASSEMBLAGE DE DISTRIBUTION DE PUISSANCE ET COMPOSANTES CONNEXES**

[72] WHYMAN, DANIEL R., US
[72] DAY, RANDALL L., US
[71] LEISURE TIME PRODUCTS, LLC, US

[22] 2021-08-26
[41] 2022-02-27
[30] US (63/070,970) 2020-08-27

[21] **3,129,102**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**

[25] EN
[54] **IN-PRODUCTION MODEL OPTIMIZATION**

[54] **OPTIMISATION DE MODELE EN PRODUCTION**

[72] MUNGUIA TAPIA, EMMANUEL, US
[72] MUKHERJI, ABHISHEK, US
[72] CHANDAK, ANSHUMA, US
[72] PARUCHURI, ANWITHA, US
[71] ACCENTURE GLOBAL SOLUTIONS LIMITED, GB

[22] 2021-08-26
[41] 2022-02-28
[30] US (17/007,955) 2020-08-31

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[21] **3,129,107**
[13] A1

[51] **Int.Cl. B62D 5/00 (2006.01) B62D 5/04 (2006.01)**
 [25] EN
 [54] **VEHICLE STEERING SYSTEMS AND METHODS**
 [54] **SYSTEMES ET METHODES DE DIRECTION DE VEHICULE**
 [72] GRAUS, JONATHON P., US
 [71] POLARIS INDUSTRIES INC., US
 [22] 2021-08-26
 [41] 2022-02-28
 [30] US (63/071855) 2020-08-28

[21] **3,129,124**
[13] A1

[51] **Int.Cl. B01D 35/143 (2006.01) A47G 19/12 (2006.01) A47G 23/10 (2006.01) B65D 25/00 (2006.01) G01C 9/00 (2006.01) G08B 5/36 (2006.01)**
 [25] EN
 [54] **CONTAINER ASSEMBLY**
 [54] **ENSEMBLE DE RESERVOIRS**
 [72] NISHIJIMA, RICK T., US
 [72] DONOVAN, MADELINE A., US
 [72] BELL, RUSSELL E., US
 [72] YAU, PIERCY, CN
 [72] ANDERSON, PAUL, CN
 [72] JUPP, SIMEON, CN
 [71] BRITA LP, US
 [22] 2021-08-27
 [41] 2022-02-28
 [30] US (17/008,494) 2020-08-31

[21] **3,129,132**
[13] A1

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 [54] **VISUAL GUIDANCE SYSTEM AND METHOD**
 [54] **SYSTEME ET METHODE D'ORIENTATION VISUELLE**
 [72] KHONSARIAN, ROYA, CA
 [72] NAZARZADEH OGHAZ, AMIN, CA
 [72] ALTON, BRUCE, CA
 [72] AKHLAGHI ESFAHANY, SIAMAK, CA
 [71] CORRECT-AI INC., CA
 [22] 2021-08-27
 [41] 2022-02-28
 [30] US (17/446,099) 2021-08-26
 [30] US (63/071,665) 2020-08-28

[21] **3,129,137**
[13] A1

[51] **Int.Cl. F24F 11/54 (2018.01) F24F 11/58 (2018.01)**
 [25] EN
 [54] **LOAD BALANCING WIRELESS MESH NETWORKS FOR HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS**
 [54] **RESEAUX MAILLES SANS FIL D'EQUILIBRAGE DES CHARGES POUR LES SYSTEMES DE CHAUFFAGE, VENTILATION ET CLIMATISATION**
 [72] SMIRNOVA, ELENA, US
 [72] AHMED, MANSOOR, US
 [71] LENNOX INDUSTRIES INC., US
 [22] 2021-08-27
 [41] 2022-02-28
 [30] US (17/005,712) 2020-08-28

[21] **3,129,139**
[13] A1

[51] **Int.Cl. F24F 11/54 (2018.01) F24F 11/56 (2018.01)**
 [25] EN
 [54] **INTEGRATING NETWORK DEVICES WITH A PROVISIONED MESH NETWORK FOR HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS**
 [54] **INTEGRATION DE DISPOSITIFS RESEAU AVEC UN RESEAU MAILLE FOURNI POUR DES SYSTEMES DE CHAUFFAGE, VENTILATION ET CLIMATISATION**
 [72] SMIRNOVA, ELENA, US
 [72] AHMED, MANSOOR, US
 [71] LENNOX INDUSTRIES INC., US
 [22] 2021-08-27
 [41] 2022-02-28
 [30] US (17/005,860) 2020-08-28

[21] **3,129,142**
[13] A1

[25] EN
 [54] **PROVISIONING WIRELESS MESH NETWORKS FOR HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS**
 [54] **FOURNITURE DE RESEAUX MAILLES SANS FIL POUR LES SYSTEMES DE CHAUFFAGE, VENTILATION ET CLIMATISATION**
 [72] AHMED, MANSOOR, US
 [72] SMIRNOVA, ELENA, US
 [71] LENNOX INDUSTRIES INC., US
 [22] 2021-08-27
 [41] 2022-02-28
 [30] US (17/005,655) 2020-08-28

[21] **3,129,147**
[13] A1

[51] **Int.Cl. G01N 15/10 (2006.01) G01N 1/34 (2006.01)**
 [25] EN
 [54] **OPEN WATER ANALYSIS SYSTEM, RELATED METHODS, AND TWO-STAGE VORTEX FILTER**
 [54] **SYSTEME D'ANALYSE D'EAUX LIBRES, METHODES CONNEXES ET FILTRE TOURBILLON EN DEUX ETAGES**
 [72] LIU, SHIWEI, CA
 [72] CHENG, XIAOGE, CN
 [72] WANG, TIANYE, CA
 [72] HATFIELD, BEN, CA
 [72] LU, FRED, CA
 [71] MARINE THINKING INC, CA
 [22] 2021-08-27
 [41] 2022-02-27
 [30] CA (3091337) 2020-08-27
 [30] US (63/079,978) 2020-09-17

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[21] **3,129,149**
[13] A1

[51] **Int.Cl. G06F 3/14 (2006.01)**
[25] EN
[54] **DISPLAY INTERFACE ADAPTATION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF D'ADAPTATION D'INTERFACE D'AFFICHAGE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] ZHANG, PING, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-08-27
[41] 2022-02-28
[30] CN (202010889273.1) 2020-08-28

[21] **3,129,179**
[13] A1

[51] **Int.Cl. B25C 1/08 (2006.01)**
[25] EN
[54] **COMBUSTION-POWERED FASTENER DRIVING TOOL FUEL CELL ADAPTER**
[54] **ADAPTEUR DE PILE A COMBUSTIBLE POUR UN OUTIL D'ENTRAINEMENT D'ATTACHES A COMBUSTION**
[72] MANIAR, NINAD C., US
[72] POPOVICH, MICHAEL S., US
[72] MAKEYEV, ALEX D., US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2021-08-27
[41] 2022-03-01
[30] US (17/008,946) 2020-09-01

[21] **3,129,183**
[13] A1

[51] **Int.Cl. H05B 47/175 (2020.01) H04W 40/02 (2009.01) H04W 84/18 (2009.01) H04W 4/80 (2018.01) H05B 47/19 (2020.01)**
[25] EN
[54] **LIGHT FIXTURE CONTROLLABLE VIA DUAL NETWORKS**
[54] **APPAREIL D'ECLAIRAGE CONTROLABLE AU MOYEN DE DEUX RESEAUX**
[72] RODRIGUEZ, YAN, US
[71] ABL IP HOLDING LLC, US
[22] 2021-08-27
[41] 2022-02-28
[30] US (63/071,432) 2020-08-28

[21] **3,129,150**
[13] A1

[51] **Int.Cl. G06F 11/36 (2006.01)**
[25] EN
[54] **INTERFACE MESSAGE TEST METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF D'ESSAI DE MESSAGE D'INTERFACE, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] SUN, YANG, CN
[72] GUO, TINGTING, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-08-27
[41] 2022-02-28
[30] CN (202010895798.6) 2020-08-31

[21] **3,129,182**
[13] A1

[51] **Int.Cl. F25J 1/02 (2006.01) F25B 49/00 (2006.01) F25J 5/00 (2006.01) F28F 27/00 (2006.01)**
[25] EN
[54] **METHOD TO CONTROL THE COOLDOWN OF MAIN HEAT EXCHANGERS IN LIQUEFIED NATURAL GAS PLANT**
[54] **METHODE DE COMMANDE DU REFROIDISSEMENT DES PRINCIPAUX ECHANGEURS DE CHALEUR DANS UNE USINE DE GAZ NATUREL LIQUEFIE**
[72] JIN, BO, US
[72] OKASINSKI, MATTHEW JOSEPH, US
[72] CHEN, FEI, US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2021-08-27
[41] 2022-03-04
[30] US (17/399,240) 2021-08-11
[30] US (63/074,565) 2020-09-04

[21] **3,129,191**
[13] A1

[51] **Int.Cl. A61M 37/00 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **IMPLANT SYRINGE**
[54] **SERINGUE D'IMPLANT**
[72] KNEER, ROLAND, DE
[72] KNEER, STEPHAN, DE
[72] KOLLER, WALTER, DE
[71] GAPLAST GMBH, DE
[22] 2021-08-27
[41] 2022-02-28
[30] DE (10 2020 122 654.3) 2020-08-31

[21] **3,129,177**
[13] A1

[51] **Int.Cl. B65D 19/04 (2006.01) B65D 1/36 (2006.01) B65D 19/38 (2006.01) B65D 21/032 (2006.01)**
[25] EN
[54] **CONTAINER RACK FOR PLIABLE BOTTLES**
[54] **RATELIER POUR BOUTEILLES SOUPLES**
[72] SPADAVECCHIA, JOHN A., US
[72] KOEFELDA, GERALD, US
[72] KELLY, DANIEL E., US
[71] POLYMER SOLUTIONS INTERNATIONAL INC., US
[22] 2021-08-27
[41] 2022-03-04
[30] US (17/012,283) 2020-09-04

[21] **3,129,195**
[13] A1

[51] **Int.Cl. B62D 5/09 (2006.01)**
[25] EN
[54] **END OF TRAVEL RELIEF SYSTEM FOR POWER STEERING SYSTEM**
[54] **SYSTEME D'ALLEGEMENT DU SYSTEME DE DIRECTION ASSISTEE EN FIN DE TRAJET**
[72] PITZER, JARED, US
[72] TIPTON, JEFFREY EDWARD, US
[71] R. H. SHEPPARD CO. INC., US
[22] 2021-08-27
[41] 2022-03-04
[30] US (17/012,229) 2020-09-04

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[21] **3,129,199**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/90 (2019.01)**
[25] EN
[54] **MACHINE-LEARNED DATABASE RECOMMENDATION MODEL**
[54] **MODELE DE RECOMMANDATION EN BASE DE DONNEES PRODUIT PAR APPRENTISSAGE AUTOMATIQUE**
[72] HUANG, VICTORIA, US
[72] HESTER, ALYSSA, US
[72] CARTER, REBECCA, US
[71] ZENPAYROLL, INC., US
[22] 2021-08-27
[41] 2022-03-04
[30] US (17/012,054) 2020-09-04

[21] **3,129,201**
[13] A1

[51] **Int.Cl. G09F 13/06 (2006.01) A47G 33/00 (2006.01) F21S 10/00 (2006.01) F21S 9/02 (2006.01)**
[25] EN
[54] **ILLUMINATED DISPLAY DEVICE**
[54] **DISPOSITIF D’AFFICHAGE ECLAIRE**
[72] EGITTO, JAMES, US
[71] SIGNATURE BRANDS, LLC, US
[22] 2021-08-27
[41] 2022-03-01
[30] US (63/073,220) 2020-09-01

[21] **3,129,206**
[13] A1

[51] **Int.Cl. A41D 13/00 (2006.01) A41D 1/00 (2018.01) A62B 35/00 (2006.01)**
[25] EN
[54] **GARMENT WITH OPENINGS FOR SAFETY HARNESS**
[54] **VETEMENT COMPORTANT DES OUVERTURES AVEC UN HARNAIS DE SECURITE**
[72] ZEPPELELLA, PETE, CA
[71] 2529117 ONTARIO INC., CA
[22] 2021-08-27
[41] 2022-02-28
[30] US (63/071,628) 2020-08-28

[21] **3,129,211**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 40/02 (2012.01) G06F 16/90 (2019.01)**
[25] EN
[54] **INFORMATION AND INTERACTION MANAGEMENT IN A CENTRAL DATABASE SYSTEM**
[54] **GESTION DE L’INFORMATION ET DES INTERACTIONS DANS UN SYSTEME CENTRAL DE BASE DE DONNEES**
[72] SUGIMURA, PETER, US
[72] HOA, KARLOTCHA, US
[72] PAIK, BENJAMIN, US
[72] LIPPITT, SARAH, US
[72] ISSA, MARIAM, US
[71] ZENPAYROLL, INC., US
[22] 2021-08-27
[41] 2022-03-04
[30] US (17/012,050) 2020-09-04

[21] **3,129,214**
[13] A1

[51] **Int.Cl. B60L 58/10 (2019.01) B60L 50/51 (2019.01) B60L 50/60 (2019.01) B60L 58/16 (2019.01) B60L 15/02 (2006.01) B60L 15/20 (2006.01) B64D 27/24 (2006.01) H01M 10/48 (2006.01) H02J 7/00 (2006.01) G01R 31/382 (2019.01) G01R 31/392 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ALLOCATING PROPULSION LOAD POWER DRAWN FROM HIGH-ENERGY AND HIGH-POWER BATTERIES**
[54] **SYSTEME ET METHODE DE REPARTITION DE LA CHARGE DE PROPULSION TIREE DE BATTERIES A ENERGIE ELEVEE ET A PUISSANCE ELEVEE**
[72] TRELA, JOHN A., US
[72] BAREKATEIN, MEHDY, US
[72] BROWN, GLEN M., US
[72] LIU, SHENGYI, US
[71] THE BOEING COMPANY, US
[22] 2021-08-27
[41] 2022-02-28
[30] US (63/072,759) 2020-08-31
[30] US (17/395,032) 2021-08-05

[21] **3,129,232**
[13] A1

[51] **Int.Cl. A61F 2/08 (2006.01) A61F 2/38 (2006.01) A61F 2/40 (2006.01) A61F 2/42 (2006.01) A61F 2/46 (2006.01)**
[25] EN
[54] **LIGAMENT-DERIVED GRAFT AND METHODS FOR MAKING AND USING SAME IN JOINT REPAIR**
[54] **GREFFE DERIVEE DE LIGAMENT ET METHODES DE FABRICATION ET D’UTILISATION DANS LA REPARATION DE JOINTS**
[72] KULBER, DAVID, US
[72] LONG, MARC, US
[72] CITRO, MATT, US
[71] MUSCULOSKELETAL TRANSPLANT FOUNDATION, US
[22] 2021-08-27
[41] 2022-02-28
[30] US (63/071,605) 2020-08-28

[21] **3,129,242**
[13] A1

[51] **Int.Cl. A63B 63/00 (2006.01)**
[25] EN
[54] **SPORTS GOAL BACKSTOP SYSTEM**
[54] **SYSTEME SPORTIF D’ARRET DES TIRS AU BUT**
[72] KAPSALIS, JEFFREY CHRISTIAN, US
[71] KAPSALIS, JEFFREY CHRISTIAN, US
[22] 2021-08-27
[41] 2022-02-28
[30] US (63071458) 2020-08-28

[21] **3,129,244**
[13] A1

[25] EN
[54] **METHODS, SYSTEMS, AND APPARATUS FOR PRESENCE DETECTION**
[54] **METHODES, SYSTEMES ET APPAREILS POUR LA DETECTION DE PRESENCE**
[72] CHEN, TIANWEN, US
[72] WANG, HONGCHENG, US
[72] LI, HONG, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-08-27
[41] 2022-02-28
[30] US (17/006,068) 2020-08-28

Demandes canadiennes mises à la disponibilité du public
27 février 2022 au 5 mars 2022

[21] **3,129,245**
[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01) G06F 21/31 (2013.01) G06F 21/50 (2013.01) G06N 3/08 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ANOMALOUS DATABASE ACCESS MONITORING**

[54] **SYSTEME ET METHODE DE SURVEILLANCE DES ACCES ANORMAUX A LA BASE DE DONNEES**

[72] MAMMADLI, NARIMAN, CA
[72] SATTARI, HAMIDREZA, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-08-27
[41] 2022-02-27
[30] US (63/070,902) 2020-08-27

[21] **3,129,249**
[13] A1

[51] **Int.Cl. G01H 17/00 (2006.01) G01S 13/06 (2006.01) G01S 17/06 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND APPARATUSES FOR INTELLIGENT AUDIO EVENT DETECTION**

[54] **SYSTEMES, METHODES ET APPAREILS POUR LA DETECTION INTELLIGENTE D'EVENEMENTS SONORES**

[72] JAIN, NAVDEEP, US
[72] WANG, HONGCHEN, US
[72] MIN, RUI, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-08-27
[41] 2022-02-28
[30] US (17/006,011) 2020-08-28

[21] **3,129,292**
[13] A1

[51] **Int.Cl. G06F 9/44 (2018.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR EXECUTING DYNAMIC CODE IN A SOFTWARE CONTAINER**

[54] **SYSTEMES ET METHODES D'EXECUTION DE CODE DYNAMIQUE DANS UN CONTENEUR LOGICIEL**

[72] LAVOIE, ALAIN, CA
[71] BANQUE NATIONALE DU CANADA, CA
[22] 2021-08-30
[41] 2022-03-03
[30] US (63/073,966) 2020-09-03

[21] **3,129,304**
[13] A1

[51] **Int.Cl. G06F 16/35 (2019.01) G06F 40/284 (2020.01) G06F 3/048 (2013.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MONITORING TECHNOLOGY INFRASTRUCTURE**

[54] **SYSTEMES ET METHODES DE SURVEILLANCE DE L'INFRASTRUCTURE DES TECHNOLOGIES**

[72] ALIKIAAMIRI, SEYEDRAMIN, CA
[72] ROSTAMIFOROOSHANI, MEHDI, CA
[72] MASHAYEKHI, MORTEZA, CA
[72] LIU, FRANK, CA
[72] MENDOZA, MARTIN, CA
[72] NINGEGOWDA, KEERTHI, CA
[72] LIU, CHUHANG, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-08-30
[41] 2022-02-28
[30] US (63/072,001) 2020-08-28

[21] **3,129,306**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01)**

[25] EN

[54] **SERVICE CHANGE DATA PROCESSING METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**

[54] **METHODE DE TRAITEMENT DES DONNEES DE MODIFICATION DE SERVICE, DISPOSITIF, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**

[72] MAO, ZONGWEI, CN
[72] ZHANG, HENG, US
[72] JIANG, CHAO, CN
[72] QIAN, JINJIN, CN
[72] SI, XIAOBO, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-08-30
[41] 2022-02-28
[30] CN (202010895304.4) 2020-08-31

[21] **3,129,344**
[13] A1

[51] **Int.Cl. F24F 11/63 (2018.01) F24F 11/70 (2018.01) G05D 27/02 (2006.01)**

[25] EN

[54] **APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR CONTROLLING INDOOR CONDITIONS**

[54] **APPAREIL, METHODE ET LOGICIEL POUR CONTROLER DES CONDITIONS INTERIEURES**

[72] VINHA, JUHA, FI
[72] HELJO, JUHANI, FI
[71] MOISTMASTER OY, FI
[22] 2021-08-30
[41] 2022-03-01
[30] FI (20205849) 2020-09-01

[21] **3,129,363**
[13] A1

[51] **Int.Cl. F16M 11/04 (2006.01) H01M 50/244 (2021.01) H01M 50/247 (2021.01) F16M 11/32 (2006.01)**

[25] EN

[54] **TRIPOD SYSTEM**

[54] **SYSTEME DE TREPIED**

[72] WILLIAMS, BRIANNA E., US
[72] JENKINS, J. LUKE, US
[72] PATRICK, ROBERT ANDREW, US
[72] CLARK, AUSTIN, US
[72] SCHAALJE, JOHN D., US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-08-30
[41] 2022-02-28
[30] US (63/072,383) 2020-08-31
[30] US (63/082,212) 2020-09-23

[21] **3,129,388**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H01R 25/00 (2006.01) H05K 5/02 (2006.01)**

[25] EN

[54] **CHARGING HUB WITH SATELLITE DEVICES**

[54] **POSTE DE RECHARGE AVEC DISPOSITIFS SATELLITES**

[72] WILLIAMS, BRIANNA E., US
[72] JENKINS, J. LUKE, US
[72] HUGHETT, STEPHEN A., US
[72] MCNABB, WILLIAM M., US
[72] BARR, ROBERT S., III, US
[71] TECHTRONIC CORDLESS GP, US
[22] 2021-08-30
[41] 2022-02-28
[30] US (63/072,618) 2020-08-31

**Canadian Applications Open to Public Inspection
February 27, 2022 to March 5, 2022**

[21] **3,129,441**
[13] A1

[51] **Int.Cl. F42B 12/74 (2006.01) F42B 33/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MAKING BIO-CARBON PROJECTILES**
[54] **METHODE ET SYSTEME DE FABRICATION DE PROJECTILES DE BIOCARBONE**
[72] MCKAY, TALBY, CA
[71] LEAR GLOBAL MUNITIONS LTD., CA
[22] 2021-08-30
[41] 2022-02-28
[30] US (63/072,341) 2020-08-31

[21] **3,129,445**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **WHEAT VARIETY 6PKJH92B**
[54] **VARIETE DE BLE 6PKJH92B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,703) 2020-09-02

[21] **3,129,449**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **WHEAT VARIETY 6PNZR33B**
[54] **VARIETE DE BLE 6PNZR33B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,745) 2020-09-02

[21] **3,129,456**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A23L 29/212 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23J 1/12 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **WHEAT VARIETY 6PWML76B**
[54] **VARIETE DE BLE 6PWML76B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,706) 2020-09-02

[21] **3,129,461**
[13] A1

[51] **Int.Cl. B65D 53/00 (2006.01) B32B 7/027 (2019.01) B32B 3/08 (2006.01) B32B 3/24 (2006.01) B32B 7/06 (2019.01) B65D 51/24 (2006.01) C09K 3/10 (2006.01)**
[25] EN
[54] **COMPOSITE SEALING FILM AND BEVERAGE CUP USING THE SAME**
[54] **PELLICULE D'ETANCHEITE COMPOSITE ET TASSE A BREUVAGE L'UTILISANT**
[72] CHIEN, TSU-HSI, TW
[71] HONG BRIDGE TECHNOLOGY CO., LTD., CN
[22] 2021-08-31
[41] 2022-03-03
[30] TW (109211553) 2020-09-03

[21] **3,129,465**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **WHEAT VARIETY 6PJEF74B**
[54] **VARIETE DE BLE 6PJEF74B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,748) 2020-09-02

Demandes canadiennes mises à la disponibilité du public

27 février 2022 au 5 mars 2022

[21] **3,129,468**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PLSK70B**
[54] **VARIETE DE BLE 6PLSK70B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,712) 2020-09-02

[21] **3,129,478**
[13] A1

[51] **Int.Cl. A47L 1/06 (2006.01) A47L 13/11 (2006.01) B25G 1/04 (2006.01) B25G 3/12 (2006.01) B25G 3/30 (2006.01) B60S 1/04 (2006.01) B60S 3/04 (2006.01)**

[25] EN
[54] **GLASS CLEANING DEVICE**
[54] **DISPOSITIF DE NETTOYAGE DU VERRE**
[72] ROSS, WILLIAM, CA
[71] ROSS, WILLIAM, CA
[22] 2021-08-31
[41] 2022-03-04
[30] US (63/074,508) 2020-09-04

[21] **3,129,481**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PUMH97B**
[54] **VARIETE DE BLE 6PUMH97B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,716) 2020-09-02

[21] **3,129,485**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PFRE16B**
[54] **VARIETE DE BLE 6PFRE16B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,778) 2020-09-02

[21] **3,129,489**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PGNQ06B**
[54] **VARIETE DE BLE 6PGNQ06B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,741) 2020-09-02

[21] **3,129,490**
[13] A1

[51] **Int.Cl. G06Q 50/28 (2012.01) G06Q 50/30 (2012.01)**

[25] EN
[54] **MARINE PRODUCT LOGISTICS MONITORING APPARATUS**
[54] **APPAREIL DE SURVEILLANCE LOGISTIQUE DE PRODUIT MARIN**
[72] LIU, QIAOWEI, CN
[72] LIU, SHIWEI, CA
[72] CHENG, XIAOGE, CN
[72] WANG, LISHAO, CA
[72] HAO, RIMING, CN
[72] YANG, LEI, CA
[72] LU, FRED, CA
[72] WANG, ZIBO, CN
[71] MARINE THINKING INC, CA
[22] 2021-08-31
[41] 2022-02-28
[30] CA (3091652) 2020-08-31

**Canadian Applications Open to Public Inspection
February 27, 2022 to March 5, 2022**

[21] **3,129,496**
[13] A1

[51] **Int.Cl. B66D 1/40 (2006.01) B63B 21/16 (2006.01) B63B 27/10 (2006.01) B63G 8/00 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM FOR A CABLE OPERATED ROV**

[54] **SYSTEME DE COMMANDE POUR UN VEHICULE TELEGUIDE A CABLES**

[72] LIU, SHIWEI, CA
[72] CHENG, XIAOGE, CN
[72] LIU, QIAOWEI, CN
[72] HAO, RIMING, CN
[72] WANG, ZIBO, CN
[71] MARINE THINKING INC, CA
[22] 2021-08-31
[41] 2022-02-28
[30] US (63079971) 2020-09-17
[30] CA (3091649) 2020-08-31

[21] **3,129,497**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **WHEAT VARIETY 6PQFV13B**

[54] **VARIETE DE BLE 6PQFV13B**

[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US

[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,743) 2020-09-02

[21] **3,129,503**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **WHEAT VARIETY 6PWGL11B**

[54] **VARIETE DE BLE 6PWGL11B**

[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2021-08-31
[41] 2022-03-02
[30] US (63/073,700) 2020-09-02

[21] **3,129,505**
[13] A1

[51] **Int.Cl. C07C 2/08 (2006.01)**

[25] EN

[54] **PROCESS FOR OLIGOMERIZATION OF ISOBUTENE**

[54] **PROCEDE D'OLIGOMERISATION DE L'ISOBUTENE**

[72] PEITZ, STEPHAN, DE
[72] STOCHNIOL, GUIDO, DE
[72] KNOSSALLA, JOHANNES, DE
[71] EVONIK OPERATIONS GMBH, DE
[22] 2021-08-31
[41] 2022-03-04
[30] EP (20194598.7) 2020-09-04

[21] **3,129,513**
[13] A1

[51] **Int.Cl. B60W 50/14 (2020.01) B60W 40/107 (2012.01) B60W 40/112 (2012.01) B60W 50/16 (2020.01)**

[25] EN

[54] **METHODS, APPARATUSES, AND SYSTEMS FOR MONITORING STATE OF A TRANSPORTATION SYSTEM**

[54] **METHODES, APPAREILS ET SYSTEMES POUR SURVEILLER L'ETAT D'UN SYSTEME DE TRANSPORT**

[72] MAINS, RONALD H., JR, US
[71] CRC R&D, LLC, US
[22] 2021-08-30
[41] 2022-03-02
[30] US (17/009,930) 2020-09-02

[21] **3,129,517**
[13] A1

[51] **Int.Cl. G06Q 30/04 (2012.01) G06V 30/42 (2022.01) G06F 17/40 (2006.01)**

[25] EN

[54] **INVOICE INFORMATION ACQUISITION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**

[54] **METHODE ET DISPOSITIF D'ACQUISITION DE RENSEIGNEMENTS DE FACTURE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**

[72] HONG, RUIZHE, CN
[72] REN, DAOLIANG, CN
[72] HOU, JIAN, CN
[72] GUO, JINZHI, CN
[72] FAN, WEIJUN, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-08-31
[41] 2022-03-01
[30] CN (202010903178.2) 2020-09-01

[21] **3,129,552**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01) A47J 31/06 (2006.01) B65D 81/32 (2006.01) B65D 81/34 (2006.01)**

[25] EN

[54] **SINGLE-SERVE BEVERAGE POD WITH ADDITIVE ENCLOSURE AND METHODS OF MAKING AND USING THEREOF**

[54] **CAPSULE DE BREUVAGE A PORTION UNIQUE AVEC ENCEINTE ADDITIVE ET METHODES DE FABRICATION ET D'UTILISATION**

[72] FAIRCLOTH, ROBERT A., US
[71] JOINTJOCKEY LLC, US
[22] 2021-08-31
[41] 2022-03-01
[30] US (63/073,036) 2020-09-01

Demandes canadiennes mises à la disponibilité du public
27 février 2022 au 5 mars 2022

[21] **3,129,561**
[13] A1

[51] **Int.Cl. B61D 7/18 (2006.01) E05B 83/02 (2014.01)**
[25] EN
[54] **RAPID DISCHARGE DOOR LOCKING SYSTEM**
[54] **SYSTEME DE VERROUILLAGE DE PORTE A DECHARGE RAPIDE**
[72] HARKEY, CHRISTOPHER C., US
[72] MCKISIC, AUBRA D., US
[72] HUCK, KENNETH W., US
[71] TRINITY RAIL GROUP, LLC, US
[22] 2021-08-31
[41] 2022-03-03
[30] US (17/011,545) 2020-09-03

[21] **3,129,567**
[13] A1

[51] **Int.Cl. E06B 1/30 (2006.01) E06B 1/36 (2006.01)**
[25] EN
[54] **RETROFIT ADAPTOR FOR GLAZING STRUCTURES AND METHOD THEREFOR**
[54] **ADAPTATEUR DE RECONFIGURATION POUR DES STRUCTURES DE VITRERIE ET METHODE CONNEXE**
[72] SCHMIDT, ROY, CA
[71] VISIONWALL INTERNATIONAL, INC., US
[22] 2021-09-01
[41] 2022-03-01
[30] US (63/073,198) 2020-09-01

[21] **3,129,571**
[13] A1

[51] **Int.Cl. B66B 9/16 (2006.01) B66F 9/02 (2006.01)**
[25] EN
[54] **ADJUSTABLE STANDOFF FOR PLATFORM HOIST**
[54] **COLONNE AJUSTABLE POUR UN PALAN DE PLATEFORME**
[72] DELANEY, ROBERT A., US
[72] BLEILER, NICHOLAS P., US
[71] JOBOB INVESTMENTS INC., US
[22] 2021-09-01
[41] 2022-03-01
[30] US (63/073,012) 2020-09-01

[21] **3,129,597**
[13] A1

[51] **Int.Cl. E04H 15/56 (2006.01)**
[25] EN
[54] **A FLOOR STRUCTURE SYSTEM AND METHOD OF USE**
[54] **SYSTEME DE STRUCTURE DE PLANCHER ET METHODE D'UTILISATION**
[72] BECHTOL, EARL, US
[72] DEACY, SEAN MICHAEL, US
[72] KORDEK, BRIAN, US
[71] BIL-JAX, INC., US
[22] 2021-09-01
[41] 2022-03-02
[30] US (63/073,466) 2020-09-02

[21] **3,129,607**
[13] A1

[51] **Int.Cl. A61L 2/28 (2006.01) C09D 11/50 (2014.01) C08K 5/00 (2006.01) C08L 27/06 (2006.01)**
[25] EN
[54] **COMPOSITION SENSITIVE TO UV-C RADIATION AND UV-C STERILIZATION OR DISINFECTION DOSIMETER**
[54] **COMPOSITION SENSIBLE AU RAYONNEMENT ULTRAVIOLET C ET DOSIMETRE DE STERILISATION OU DE DESINFECTION PAR RAYONNEMENT ULTRAVIOLET C**
[72] LOMBARDIA, ESTEBAN, AR
[72] ROVETTO, ADRIAN JESUS, AR
[71] TERRAGENE LLC, US
[22] 2021-09-01
[41] 2022-03-02
[30] US (17/010,458) 2020-09-02

[21] **3,129,759**
[13] A1

[51] **Int.Cl. B60R 9/06 (2006.01) B60R 19/48 (2006.01)**
[25] EN
[54] **MOUNTING SYSTEM**
[54] **SYSTEME DE MONTAGE**
[72] HIPPE, ALEXANDER, DE
[72] KADNIKOV, ALEKSEJ, DE
[72] RIMMELSPACHER, BERNHARD, DE
[71] ACPS AUTOMOTIVE GMBH, DE
[22] 2021-09-02
[41] 2022-03-02
[30] DE (10 2020 122 965.8) 2020-09-02

[21] **3,129,761**
[13] A1

[51] **Int.Cl. G01B 7/16 (2006.01)**
[25] EN
[54] **STRAIN GAUGE AND STRAIN MEASUREMENT ASSEMBLY**
[54] **JAUGE DE CONTRAINTE ET ENSEMBLE DE MESURE DE CONTRAINTE**
[72] HOFFMAN, JAMES, US
[72] WAGNER, DAVID ERIC, US
[72] KIM, YOUNG-DEOK, US
[71] MEASUREMENT SPECIALTIES, INC., US
[71] TYCO ELECTRONICS AMP KOREA CO., LTD., KR
[22] 2021-08-31
[41] 2022-03-03
[30] US (17/011352) 2020-09-03

[21] **3,129,773**
[13] A1

[51] **Int.Cl. E01H 5/06 (2006.01)**
[25] EN
[54] **ARTICULATING VEHICLE SNOW PLOW**
[54] **CHASSE-NEIGE DE VEHICULE ARTICULE**
[72] NIEMELA, CAL G., US
[72] QUENZI, PHILIP J., US
[71] NIEMELA, CAL G., US
[22] 2021-09-01
[41] 2022-03-02
[30] US (63/073704) 2020-09-02
[30] US (63/155591) 2021-03-02

[21] **3,129,777**
[13] A1

[51] **Int.Cl. E21C 25/10 (2006.01) E21C 25/06 (2006.01)**
[25] EN
[54] **CUTTING HEAD FOR ROCK CUTTING MACHINE**
[54] **TETE DE COUPE POUR MACHINE A TAILLER LES PIERRES**
[72] CONNELL, ALEX, US
[72] STEWART, RYAN, US
[71] JOY GLOBAL UNDERGROUND MINING LLC, US
[22] 2021-09-02
[41] 2022-03-04
[30] US (63/074,835) 2020-09-04

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[21] **3,129,781**
[13] A1

[51] **Int.Cl. A47J 37/07 (2006.01) F24B 3/00 (2006.01) F24B 13/04 (2006.01)**
[25] EN
[54] **OUTDOOR PELLET GRILL**
[54] **BARBECUE EXTERIEUR AU CHARBON**
[72] SPRINGER, ZACHARY, US
[71] WALMART APOLLO, LLC, US
[22] 2021-09-02
[41] 2022-03-04
[30] US (63/074,983) 2020-09-04

[21] **3,129,783**
[13] A1

[51] **Int.Cl. B01D 29/00 (2006.01) B01D 35/00 (2006.01)**
[25] EN
[54] **VARIABLE-POROSITY FILTERING APPARATUS HAVING COMPRESSIBLE FILTERING MEDIUM**
[54] **APPAREIL DE FILTRATION A POROSITE VARIABLE AYANT UN MATERIAU FILTRANT COMPRESSIBLE**
[72] KIRK, TODD WILLIAM, CA
[71] EXTERRAN WATER SOLUTIONS ULC, CA
[22] 2021-09-02
[41] 2022-03-02
[30] US (63/073,925) 2020-09-02

[21] **3,129,785**
[13] A1

[51] **Int.Cl. A47J 37/06 (2006.01) A47J 37/07 (2006.01) F24C 1/16 (2021.01) F24C 11/00 (2006.01) F24C 15/10 (2006.01)**
[25] EN
[54] **OUTDOOR GRIDDLE**
[54] **POELE A GALETTES EXTERIEUR**
[72] SPRINGER, ZACHARY, US
[71] WALMART APOLLO LLC, US
[22] 2021-09-02
[41] 2022-03-04
[30] US (63/074,973) 2020-09-04

[21] **3,129,788**
[13] A1

[51] **Int.Cl. B03C 7/00 (2006.01) B03C 7/10 (2006.01)**
[25] EN
[54] **PROCEDE DE CONCEPTION D'UN DISPOSITIF DE SEPARATION ELECTROSTATIQUE D'UN MELANGE DE GRANULES DE MATERIAUX DIFFERENTS ET DISPOSITIFS ASSOCIES**
[54] **METHOD FOR DESIGNING A DEVICE FOR THE ELECTROSTATIC SEPARATION OF A MIXTURE OF GRANULES OF DIFFERENT MATERIALS AND ASSOCIATED DEVICES**
[72] SOMMEN, PIERRE, FR
[71] SKYTECH, FR
[22] 2021-09-02
[41] 2022-03-03
[30] FR (2008934) 2020-09-03

[21] **3,129,792**
[13] A1

[51] **Int.Cl. G06Q 40/00 (2012.01)**
[25] EN
[54] **A DECENTRALIZED TOKEN SWAPPING METHOD WITH LOW SLIPPAGE POINT AND HIGH LIQUIDITY**
[54] **METHODE D'ECHANGE DE JETONS DECENTRALISEE AXEE SUR UN FAIBLE POINT DE DERAPAGE ET UNE GRANDE LIQUIDITE**
[72] HAN, LIN, CA
[71] JINAN ZHISHU INFORMATION AND TECHNOLOGY CO., LTD., CN
[22] 2021-09-02
[41] 2022-03-04
[30] CN (202010925619.9) 2020-09-04

[21] **3,129,802**
[13] A1

[51] **Int.Cl. G06Q 10/10 (2012.01) G06F 40/186 (2020.01)**
[25] EN
[54] **BUSINESS REPORT GENERATION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE GENERATION DE RAPPORTS D'AFFAIRES, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] HAO, ZHENHUA, CN
[72] HOU, JIAN, CN
[72] LU, JUNLONG, CN
[72] GUO, JINZHI, CN
[72] HU, SHUAI, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-02
[41] 2022-03-02
[30] CN (202010912009.5) 2020-09-02

[21] **3,129,803**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR ENABLING IDENTITY-BASED SERVICES USING A RANDOM IDENTIFIER**
[54] **METHODES ET SYSTEMES POUR PERMETTRE DES SERVICES AXES SUR L'IDENTITE AU MOYEN D'UN IDENTIFIANT ALEATOIRE**
[72] MUTHUSAMY, SARAVANAN, US
[72] SIDDALINGA, PRASAD, US
[72] POOVAPPA, VINAYAKA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2021-09-02
[41] 2022-03-02
[30] US (63/073,845) 2020-09-02

[21] **3,129,812**
[13] A1

[51] **Int.Cl. G02C 5/22 (2006.01)**
[25] FR
[54] **FIXING DEVICE FOR SPECTACLE FRAMES**
[54] **DISPOSITIF DE FIXATION POUR MONTURE DE LUNETTES**
[72] BRUSSET, SEBASTIEN, FR
[71] F & H, FR
[22] 2021-09-02
[41] 2022-03-04
[30] FR (FR2009011) 2020-09-04

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[21] **3,129,813**
 [13] A1

[51] **Int.Cl. A47J 19/02 (2006.01) A47J 43/08 (2006.01)**
 [25] EN
 [54] **JUICER WITH CRANK**
 [54] **EXTRACTEUR DE JUS A MANIVELLE**
 [72] KENT, JOSEPH, US
 [72] KAPOSI, SASCHA, US
 [72] WOO, GEOFF, US
 [71] PROGRESSIVE INTERNATIONAL CORPORATION, US
 [22] 2021-09-02
 [41] 2022-03-04
 [30] US (63/074573) 2020-09-04

[21] **3,129,814**
 [13] A1

[51] **Int.Cl. A47J 19/02 (2006.01)**
 [25] EN
 [54] **JUICER WITH HANDLE**
 [54] **EXTRACTEUR DE JUS A POIGNEE**
 [72] KENT, JOSEPH, US
 [72] KAPOSI, SASCHA, US
 [72] WOO, GEOFF, US
 [71] PROGRESSIVE INTERNATIONAL CORPORATION, US
 [22] 2021-09-02
 [41] 2022-03-04
 [30] US (63/074567) 2020-09-04

[21] **3,129,863**
 [13] A1

[51] **Int.Cl. G01N 27/00 (2006.01)**
 [25] EN
 [54] **MEASUREMENT METHOD AND MEASUREMENT ARRANGEMENT FOR INTERFERENCE SUPPRESSION IN A RECEIVE SIGNAL OF AN EMAT TRANSDUCER**
 [54] **METHODE DE MESURE ET CONFIGURATION DE MESURE POUR LA SUPPRESSION D'INTERFERENCE DANS UN SIGNAL DE RECEPTION D'UN TRANSDUCTEUR ELECTROMAGNETIQUE ACOUSTIQUE (EMAT)**
 [72] BLUMENSTEIN, EDUARD, DE
 [72] SCHEMMANN, MARCEL, NL
 [71] ROSEN SWISS AG, CH
 [22] 2021-09-03
 [41] 2022-03-03
 [30] DE (10 2020 123 072.9) 2020-09-03

[21] **3,129,909**
 [13] A1

[51] **Int.Cl. H01R 24/38 (2011.01) H01R 13/40 (2006.01) H01R 13/42 (2006.01) H01R 29/00 (2006.01)**
 [25] EN
 [54] **POSITIONING ADAPTER FOR COAXIAL CONNECTOR ASSEMBLY**
 [54] **ADAPTATEUR DE POSITIONNEMENT POUR UN ASSEMBLAGE DE CONNECTEUR COAXIAL**
 [72] BLASICK, FRANCIS JOHN, US
 [72] MILLER, KEITH EDWIN, US
 [72] WILSON, DENVER HARLEY, US
 [71] TE CONNECTIVITY SERVICES GMBH, CH
 [22] 2021-09-02
 [41] 2022-03-04
 [30] US (17/012246) 2020-09-04

[21] **3,129,979**
 [13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01)**
 [25] EN
 [54] **ORDER INFORMATION ACQUISITION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
 [54] **METHODE ET DISPOSITIF D'ACQUISITION DE RENSEIGNEMENTS DE COMMANDE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
 [72] TAN, HU, CN
 [72] DUAN, TAO, CN
 [72] DENG, WEI, CN
 [72] SI, XIAOBO, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2021-09-02
 [41] 2022-03-02
 [30] CN (202010911915.3) 2020-09-02

[21] **3,129,982**
 [13] A1

[51] **Int.Cl. G06F 16/182 (2019.01) G06F 16/172 (2019.01)**
 [25] EN
 [54] **METHOD AND SYSTEM FOR ACCESSING DISTRIBUTED BLOCK STORAGE SYSTEM IN KERNEL MODE**
 [54] **METHODE ET SYSTEME POUR ACCEDER A UN SYSTEME DE STOCKAGE DE BLOCS DISTRIBUE DANS UN MODE NOYAU**
 [72] SHEN, JIAN, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2021-09-03
 [41] 2022-03-03
 [30] CN (202010919808.5) 2020-09-03

[21] **3,129,984**
 [13] A1

[51] **Int.Cl. G06F 16/27 (2019.01)**
 [25] EN
 [54] **METHOD AND SYSTEM FOR ACCESSING DISTRIBUTED BLOCK STORAGE SYSTEM IN USER MODE**
 [54] **METHODE ET SYSTEME POUR ACCEDER A UN SYSTEME DE STOCKAGE DE BLOCS DISTRIBUE DANS UN MODE UTILISATEUR**
 [72] SHEN, JIAN, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2021-09-03
 [41] 2022-03-03
 [30] CN (202010919809.X) 2020-09-03

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[21] **3,129,985**
[13] A1

[51] **Int.Cl. G06F 11/07 (2006.01) G06F 9/44 (2018.01)**
[25] EN
[54] **ABNORMAL OPERATION ENVIRONMENT RESTORATION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE RESTAURATION D'UN ENVIRONNEMENT D'OPERATION ANORMALE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] LING, YONG, CN
[72] JIANG, XUXI, CN
[72] LI, DONG, CN
[72] CHEN, JIE, CN
[72] GAO, YONG, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-03
[41] 2022-03-03
[30] CN (202010913609.3) 2020-09-03

[21] **3,129,986**
[13] A1

[25] EN
[54] **NETWORK TESTING METHOD AND DEVICE**
[54] **METHODE ET DISPOSITIF D'ESSAI RESEAU**
[72] LI, GUICHEN, CN
[72] HUANG, XIN, CN
[72] WANG, YE, CN
[72] SHU, YONGYONG, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-03
[41] 2022-03-03
[30] CN (202010913844.0) 2020-09-03

[21] **3,129,987**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF DYNAMIC RESOURCE ALLOCATION AMONG NETWORKED COMPUTING DEVICES**
[54] **SYSTEMES ET METHODES DE REPARTITION DYNAMIQUE DES RESSOURCES ENTRE LES DISPOSITIFS INFORMATIQUES EN RESEAU**
[72] MILTON, ARUN JOHN, CA
[72] NABULSI, ADEL AL, CA
[72] SOOD, SANAABH, CA
[72] TRIEU, SENG, CA
[72] UDESHI, MANJARI PARESH, CA
[72] ORTIZ, EDISON U., CA
[72] MARTIN SACRISTAN, JUAN, CA
[72] VINTILA, IUSTINA-MIRUNA, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2021-09-03
[41] 2022-03-03
[30] US (63/074,366) 2020-09-03
[30] US (63/074,384) 2020-09-03

[21] **3,129,997**
[13] A1

[51] **Int.Cl. A01B 33/14 (2006.01) A01B 71/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONNECTING TINES TO A ROTOR OF A TILLING MACHINE**
[54] **SYSTEME ET METHODE POUR BRANCHER LES DENTS A UN ROTOR D'UNE MACHINE DE PREPARATION DU SOL**
[72] SOULIER, JORDAN MICHAEL, CA
[72] STEVENSON, KELVIN JOHN, CA
[71] F.P. BOURGAULT TILLAGE TOOLS LTD., CA
[22] 2021-09-03
[41] 2022-03-04
[30] US (63/074780) 2020-09-04

[21] **3,130,001**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01)**
[25] EN
[54] **ORDER FORWARDING METHOD, SYSTEM, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE DE TRANSMISSION DE COMMANDE, SYSTEME, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] MIAO, SHIXIANG, CN
[72] WU, CUIFANG, CN
[72] SI, XIAOBO, CN
[72] DUAN, TAO, CN
[72] ZHANG, JIUTAO, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-07
[41] 2022-03-04
[30] CN (202010920310.0) 2020-09-04

[21] **3,130,241**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01)**
[25] EN
[54] **COMMODITY FUTURE INFORMATION ACQUISITION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF D'ACQUISITION DE RENSEIGNEMENTS FUTURS SUR UN BIEN, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] CHEN, HAO, CN
[72] ZHAO, ZIYU, CN
[72] ZHANG, MING, CN
[72] ZHOU, YI, CN
[72] SI, XIAOBO, CN
[71] 10353744 CANADA LTD., CA
[22] 2021-09-02
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[30] CN (202010910605.X) 2020-09-02

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[21] **3,131,173**

[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01)**

[25] EN

[54] **TORCH ADAPTER FOR
INHALABLE CONCENTRATES**

[54] **ADAPTATEUR DE CHALUMEAU
POUR DES CONCENTRES
INHALANTS**

[72] CHAREST, BRENDAN PATRICK, CA

[72] BAXTER, JOSEPH, CA

[71] CHAREST, BRENDAN PATRICK, CA

[71] BAXTER, JOSEPH, CA

[22] 2021-09-01

[41] 2022-03-01

[30] US (63073372) 2020-09-01

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[13] A1
[51] **Int.Cl. E01B 29/16 (2006.01) E01B 29/20 (2006.01) E01B 29/22 (2006.01)**
[25] EN
[54] **RAIL THREADER WORKHEAD**
[54]
[72] FUESSEL, JASON M., CA
[72] PIPOL, JUSTIN J., US
[71] S.W.N.G., INC., US
[85] 2021-09-15
[86] 2020-08-31 (PCT/US2020/048811)
[87] (3130601)

[21] **3,137,824**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4015 (2006.01) A61K 31/407 (2006.01) A61K 31/454 (2006.01) C07D 207/16 (2006.01) C07D 403/12 (2006.01)**
[25] EN
[54] **NITRILE-CONTAINING ANTIVIRAL COMPOUNDS**
[54] **COMPOSES ANTIVIRAUX CONTENANT DU NITRILE**
[72] OWEN, DAFYDD RHYS, US
[72] PETTERSSON, MARTIN YOUNGJIN, US
[72] REESE, MATTHEW RICHARD, US
[72] SAMMONS, MATTHEW FORREST, US
[72] TUTTLE, JAMISON BRYCE, US
[72] VERHOEST, PATRICK ROBERT, US
[72] WEI, LIUQING, US
[72] YANG, XIAOJING, US
[72] YANG, QINGYI, US
[71] PFIZER INC., US
[85] 2021-11-05
[86] 2021-08-06 (PCT/IB2021/057281)
[87] (WO2021/250648)
[30] US (63/073,982) 2020-09-03
[30] US (63/143,435) 2021-01-29
[30] US (63/170,158) 2021-04-02
[30] US (63/194,241) 2021-05-28

[21] **3,143,370**
[13] A1
[51] **Int.Cl. C22B 3/00 (2006.01) C22B 7/00 (2006.01)**
[25] EN
[54] **PROCEDURE FOR PRODUCING SILVER CONCENTRATE FROM METALLURGICAL RESIDUES**
[54] **PROCEDURE POUR LA PRODUCTION D'UN CONCENTRE D'ARGENT DE RESIDUS METALLURGIQUES**
[72] ACUNA GOYCOLEA, MARCELO GUSTAVO, CL
[72] PEZOA CONTE, RICARDO MIGUEL, CL
[71] ECOMETALES LIMITED, CL
[85] 2022-01-25
[86] 2020-07-20 (PCT/IB2020/056900)
[87] (WO2022/018491)

[21] **3,143,649**
[13] A1
[51] **Int.Cl. E04H 12/24 (2006.01) H02G 7/05 (2006.01)**
[25] EN
[54] **INSULATING CROSS ARM AND PREPARATION METHOD THEREOF, AND TRANSMISSION POLE**
[54] **TRAVERSE D'ISOLATION ET METHODE DE PREPARATION, ET POLE DE TRANSMISSION**
[72] MA, BIN, CN
[72] JIN, TIANLIANG, CN
[72] XU, KANG, CN
[71] JIANGSU SHEMAR ELECTRIC CO., LTD., CN
[85] 2021-12-21
[86] 2021-08-20 (PCT/CN2021/113650)
[87] (3143649)
[30] CN (202010922637.1) 2020-09-04

[21] **3,143,833**
[13] A1
[51] **Int.Cl. B60P 7/04 (2006.01)**
[25] EN
[54] **TARPAULIN INCLUDING A REPLACEABLE SECTION.**
[54]
[72] MARTIN, KENDRICK, CA
[71] FABRICATION ELCARGO INC., CA
[85] 2022-01-12
[86] 2021-08-31 (PCT/IB2021/057958)
[87] (3143833)
[30] US (63/072,608) 2020-08-31
[30] US (63/123,789) 2020-12-10

[21] **3,144,333**
[13] A1
[51] **Int.Cl. A61K 47/56 (2017.01) A61K 47/60 (2017.01) A61K 47/69 (2017.01) A61K 9/107 (2006.01) A61K 31/7088 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **MICELLAR NANOPARTICLES AND USES THEREOF**
[54] **NANOPARTICULES MICELLAIRES ET UTILISATIONS ASSOCIEES**
[72] RYU, JIN-HYEOB, KR
[72] LIM, YU NA, KR
[72] MIN, HYUN SU, KR
[72] KOH, HAN SEOK, KR
[72] KIM, DAE HOON, KR
[72] CHO, HYUN-JEONG, KR
[71] BIORCHESTRA CO., LTD., KR
[85] 2021-12-20
[86] 2020-06-26 (PCT/IB2020/056093)
[87] (WO2020/261227)
[30] US (62/867,097) 2019-06-26
[30] US (63/043,693) 2020-06-24

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[21] **3,145,233**
[13] A1

[51] **Int.Cl. C07D 233/34 (2006.01) C08C 19/22 (2006.01) C08F 136/08 (2006.01)**

[25] FR

[54] **MOLECULE HAVING A NITRILE OXIDE FUNCTION**

[54] **MOLECULE PORTANT UNE FONCTION OXYDE DE NITRILE**

[72] COUTURIER, JEAN-LUC, FR

[72] IVANOV, SERGEY, FR

[72] UGOLNIKOV, OLEG, FR

[72] JEAN-BAPTISTE-DIT-DOMINIQUE, FRANCOIS, FR

[71] ARKEMA FRANCE, FR

[85] 2022-01-21

[86] 2020-08-06 (PCT/EP2020/072188)

[87] (WO2021/023840)

[30] FR (FR1909055) 2019-08-07

[21] **3,145,274**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A23L 33/135 (2016.01) A61P 1/00 (2006.01) A61P 29/00 (2006.01)**

[25] FR

[54] **FAECALIBACTERIUM PRAUSNITZII AND CHRISTENSENELLA BACTERIAL STRAINS FOR THE TREATMENT AND PREVENTION OF BOWEL INFLAMMATION**

[54] **SOUCHES BACTERIENNES DE FAECALIBACTERIUM PRAUSNITZII ET DE CHRISTENSENELLA POUR LE TRAITEMENT ET LA PREVENTION D'UNE INFLAMMATION GASTRO-INTESTINALE**

[72] LANGELLA, PHILIPPE, FR

[72] BRIGIDI, PATRIZIA, IT

[72] MARTIN ROSIQUE, REBECA, FR

[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR

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

[85] 2022-01-21

[86] 2020-07-23 (PCT/EP2020/070830)

[87] (WO2021/013944)

[30] FR (FR1908385) 2019-07-24

[21] **3,145,284**
[13] A1

[51] **Int.Cl. C02F 1/52 (2006.01) C02F 1/44 (2006.01) C02F 1/66 (2006.01)**

[25] EN

[54] **WATER BALANCE IMPROVEMENT IN AN EFFLUENT TREATMENT PROCESS FOR SULPHATE REMOVAL**

[54] **AMELIORATION DE L'EQUILIBRE HYDRIQUE DANS UN PROCEDE DE TRAITEMENT D'EFFLUENT POUR L'ELIMINATION DU SULFATE**

[72] NETSHIKHUDINI, TSHAMANO, ZA

[71] MINTEK, ZA

[85] 2022-01-21

[86] 2020-09-24 (PCT/ZA2020/050051)

[87] (WO2021/062452)

[30] ZA (2019/06331) 2019-09-26

[21] **3,145,405**
[13] A1

[51] **Int.Cl. H05B 45/37 (2020.01)**

[25] EN

[54] **SMART STARTING UP METHOD BY AN LED DRIVER**

[54] **PROCEDE DE DEMARRAGE INTELLIGENT PAR UN CIRCUIT D'ATTAQUE DE DEL**

[72] SAES, MARC, NL

[72] VERSTEEGDE, TIJS, NL

[72] GOMMANS, NICOLAAS JOHANNES ANTONIUS, NL

[71] ELDOLAB HOLDING B.V., NL

[85] 2022-01-24

[86] 2020-07-16 (PCT/EP2020/070175)

[87] (WO2021/013699)

[30] NL (2023562) 2019-07-24

[21] **3,145,414**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 33/579 (2006.01)**

[25] EN

[54] **CARTRIDGE WITH MIXING ZONE FOR ENDOTOXIN DETECTION**

[54] **CARTOUCHE AVEC ZONE DE MELANGE POUR LA DETECTION D'ENDOTOXINES**

[72] SANDO, GERALD, US

[72] STUMBAUGH, CANDICE, US

[72] GRANDISON, ADRIAN, US

[72] TADESSE, LEBEN, US

[72] SAWHNEY, PUJA, US

[72] HARRIS, WILL, US

[72] BARTON, RUPERT, US

[71] LONZA WALKERSVILLE, INC., US

[85] 2022-01-24

[86] 2020-08-13 (PCT/US2020/046049)

[87] (WO2021/034581)

[30] US (62/889,747) 2019-08-21

[21] **3,145,422**
[13] A1

[51] **Int.Cl. A61B 6/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ANALYZING, DETECTING, AND TREATING FIBROTIC CONNECTIVE TISSUE NETWORK FORMATION**

[54] **SYSTEMES ET PROCEDES D'ANALYSE, DE DETECTION ET DE TRAITEMENT DE LA FORMATION D'UN RESEAU DE TISSU CONJONCTIF FIBREUX**

[72] MASCHARAK, SHAMIK, US

[72] DESJARDINS-PARK, HEATHER E., US

[72] BORRELLI, MIMI, US

[72] MOORE, ALESSANDRA LAURA, US

[72] LONGAKER, MICHAEL T., US

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

[85] 2022-01-24

[86] 2020-07-27 (PCT/US2020/043717)

[87] (WO2021/021720)

[30] US (62/879,366) 2019-07-26

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[21] **3,145,424**
[13] A1

[51] **Int.Cl. F16B 7/14 (2006.01) B60P 7/15 (2006.01)**

[25] EN

[54] **ADJUSTABLE SHORING BEAM AND FIXING CLAMP**

[54] **POUTRE D'ETAYAGE REGLABLE ET BRIDE DE FIXATION**

[72] HENDERSON, DYLAN, US

[72] ALBERS, DAVID, US

[72] BELIN, MARK, US

[71] INNOVATIVE LOGISTICS, INC., US

[85] 2022-01-24

[86] 2020-07-29 (PCT/US2020/044008)

[87] (WO2021/021890)

[30] US (62/879,793) 2019-07-29

[21] **3,145,433**
[13] A1

[51] **Int.Cl. B05D 5/06 (2006.01) B05D 7/00 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING A MULTILAYER COATING COMPRISING A SPARKLING COAT LAYER AND MULTILAYER COATING OBTAINED FROM SAID PROCESS**

[54] **PROCEDE DE PRODUCTION D'UN REVETEMENT MULTICOUCHE COMPRENANT UNE COUCHE DE REVETEMENT SCINTILLANT ET REVETEMENT MULTICOUCHE OBTENU A PARTIR DUDIT PROCEDE**

[72] ROEHR, ELKE, DE

[72] REDER, KERSTIN, DE

[72] DEPPISCH, BERTHOLD, DE

[71] BASF COATINGS GMBH, DE

[85] 2022-01-24

[86] 2020-07-23 (PCT/EP2020/070843)

[87] (WO2021/018735)

[30] EP (19188842.9) 2019-07-29

[21] **3,145,435**
[13] A1

[51] **Int.Cl. G01S 7/48 (2006.01) G01S 17/931 (2020.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR FREE SPACE ESTIMATION**

[54] **SYSTEME ET PROCEDE D'ESTIMATION D'ESPACE LIBRE**

[72] RAVI, ABHISHEK, US

[72] BUITKUS, GREGORY J., US

[72] BOGGAVARAPU, SAI RAVI TEJA, US

[72] GUMMADI, RAAJITHA, US

[72] KANE, DEREK, US

[72] CHANG, YU-HSUAN, US

[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US

[85] 2022-01-24

[86] 2020-07-24 (PCT/US2020/043601)

[87] (WO2021/021672)

[30] US (62/879,391) 2019-07-26

[21] **3,145,438**
[13] A1

[51] **Int.Cl. B60P 7/08 (2006.01) E04G 25/04 (2006.01)**

[25] EN

[54] **ADJUSTABLE SHORING BEAM AND CONNECTION ASSEMBLY**

[54] **POUTRE D'ETAYAGE REGLABLE ET ENSEMBLE DE RACCORDEMENT**

[72] HENDERSON, DYLAN, US

[72] ALBERS, DAVID, US

[72] BELIN, MARK, US

[71] INNOVATIVE LOGISTICS, INC., US

[85] 2022-01-24

[86] 2020-07-29 (PCT/US2020/044022)

[87] (WO2021/021901)

[30] US (62/879,793) 2019-07-29

[21] **3,145,451**
[13] A1

[51] **Int.Cl. F16L 55/027 (2006.01) F15D 1/02 (2006.01)**

[25] EN

[54] **IN-LINE ULTRASONIC ATTENUATION END TREATMENT FOR USE WITH AN ULTRASONIC GAS FLOW METER**

[54] **TRAITEMENT D'EXTREMITE D'ATTENUATION ULTRASONORE EN LIGNE DESTINE A ETRE UTILISE AVEC UN DEBITMETRE DE GAZ A ULTRASONS**

[72] MCCLINTOCK, DENNIS, US

[71] BIG ELK ENERGY SYSTEMS, LLC, US

[85] 2022-01-24

[86] 2020-04-20 (PCT/US2020/028984)

[87] (WO2021/021258)

[30] US (16/525,064) 2019-07-29

[30] US (16/544,243) 2019-08-19

[21] **3,145,452**
[13] A1

[51] **Int.Cl. G01L 1/20 (2006.01) G01L 1/16 (2006.01) G01L 1/18 (2006.01)**

[25] EN

[54] **PRESSURE-SENSITIVE SHEET AND MODULAR SYSTEM INCLUDING THE SAME**

[54] **FEUILLE SENSIBLE A LA PRESSION ET SYSTEME MODULAIRE COMPRENANT CETTE DERNIERE**

[72] MOOR, TIM, GB

[71] HP1 TECHNOLOGIES LIMITED, GB

[85] 2022-01-24

[86] 2020-07-23 (PCT/GB2020/051761)

[87] (WO2021/014158)

[30] GB (1910547.7) 2019-07-23

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[21] **3,145,464**
[13] A1

[51] **Int.Cl. A01B 79/00 (2006.01) A01D 41/127 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING RESIDUE COVERAGE WITHIN A FIELD FOLLOWING A HARVESTING OPERATION**

[54] **SYSTEME ET PROCEDE DE DETERMINATION D'UNE COUVERTURE DE RESIDU A L'INTERIEUR D'UN CHAMP SUITE A UNE OPERATION DE RECOLTE**

[72] FERRARI, LUCA, US
[72] BARRICK, CHRISTOPHER, US
[71] CNH INDUSTRIAL AMERICA LLC, US

[85] 2022-01-24
[86] 2020-07-29 (PCT/US2020/043949)
[87] (WO2021/021850)
[30] US (16/527,264) 2019-07-31

[21] **3,145,469**
[13] A1

[51] **Int.Cl. H02J 3/32 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR PROVIDING POWER**

[54] **PROCEDES ET SYSTEMES POUR FOURNIR DE L'ENERGIE**

[72] HEILMAN, DAVID D., US
[72] SMITH, JUSTIN R., US
[71] EXELON GENERATION COMPANY, LLC, US

[85] 2022-01-24
[86] 2020-07-24 (PCT/US2020/043422)
[87] (WO2021/016526)
[30] US (16/521,200) 2019-07-24

[21] **3,145,470**
[13] A1

[51] **Int.Cl. H04N 19/85 (2014.01) G06T 5/00 (2006.01) G06T 5/20 (2006.01) G09G 5/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF REDUCING DISTORTION DURING DOWNSAMPLING**

[54] **SYSTEME ET PROCEDE DE REDUCTION DE DISTORSION PENDANT UN SOUS-ECHANTILLONNAGE**

[72] BUTTERS, JEFFREY R., GB
[71] GRASS VALLEY LIMITED, GB

[85] 2022-01-24
[86] 2020-07-23 (PCT/GB2020/051757)
[87] (WO2021/014156)
[30] US (62/878,253) 2019-07-24

[21] **3,145,474**
[13] A1

[51] **Int.Cl. C09D 5/02 (2006.01) C08F 290/14 (2006.01) C08G 18/08 (2006.01) C08G 18/10 (2006.01) C08G 18/24 (2006.01) C08G 18/32 (2006.01) C08G 18/34 (2006.01) C08G 18/42 (2006.01) C08G 18/66 (2006.01) C08G 18/67 (2006.01) C08G 18/75 (2006.01) C09D 17/00 (2006.01) C09D 133/14 (2006.01) C09D 175/06 (2006.01)**

[25] EN

[54] **MIXING SYSTEM FOR PRODUCING AQUEOUS COATING AGENTS WITH A LOW VOC**

[54] **SYSTEME MELANGEUR POUR LA PRODUCTION D'AGENTS DE REVETEMENT AQUEUX A FAIBLE TENEUR EN COV**

[72] STEFFENS, ALEXANDRA, DE
[72] LETTMANN, BERNHARD, DE
[72] RADEMACHER, JOSEF, DE
[72] HOFFMANN, PETER, DE
[71] BASF COATINGS GMBH, DE

[85] 2022-01-24
[86] 2020-07-15 (PCT/EP2020/070019)
[87] (WO2021/018594)
[30] EP (19189323.9) 2019-07-31

[21] **3,145,475**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 38/18 (2006.01) A61K 38/26 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **FGF21 FC FUSION PROTEIN, GLP-1 FC FUSION PROTEIN, AND COMBINATION THERAPEUTIC AGENT COMPRISING SAME AND USE THEREOF**

[54] **PROTEINE DE FUSION FC FGF21, PROTEINE DE FUSION FC GLP-1, AGENT THERAPEUTIQUE COMBINE LES COMPRENANT ET UTILISATION ASSOCIEE**

[72] DONG, ZHAO, CN
[72] ZHOU, CHI, CN
[72] ZHANG, JIYU, CN
[72] LI, YUANLI, CN
[72] LI, QIANG, CN
[71] AMPSOURCE BIOPHARMA SHANGHAI INC., CN

[85] 2022-01-24
[86] 2020-07-08 (PCT/CN2020/100774)
[87] (WO2021/012947)
[30] CN (201910675288.5) 2019-07-25

[21] **3,145,477**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/16 (2006.01) A61K 47/42 (2017.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING CANCER USING PEPTIDE NUCLEIC ACID-BASED AGENTS**

[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DU CANCER UTILISANT DES AGENTS A BASE D'ACIDES NUCLEIQUES PEPTIDIQUES**

[72] ROTHMAN, JEFFREY HAROLD, US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY, US

[85] 2022-01-24
[86] 2020-07-22 (PCT/US2020/043091)
[87] (WO2021/016361)
[30] US (62/878,301) 2019-07-24

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[21] **3,145,478**
[13] A1

[51] **Int.Cl. G01N 33/49 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING THE AMOUNT OF ANTICOAGULANT PRESENT IN COLLECTED PLASMA AFTER APHERESIS**
[54] **PROCEDE DE REGULATION DE LA QUANTITE D'ANTICOAGULANT PRESENT DANS UN PLASMA COLLECTE APRES APHERESE**
[72] FLEXMAN, GREG, US
[71] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[85] 2022-01-24
[86] 2020-06-23 (PCT/EP2020/067529)
[87] (WO2021/018481)
[30] US (62/881,781) 2019-08-01

[21] **3,145,479**
[13] A1

[51] **Int.Cl. H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01) H04N 19/59 (2014.01)**
[25] EN
[54] **AN ENCODER, A DECODER AND CORRESPONDING METHODS OF CHROMA INTRA MODE DERIVATION**
[54] **CODEUR, DECODEUR ET PROCEDES CORRESPONDANTS DE DEDUCTION DE MODE INTRA DE CHROMINANCE**
[72] WANG, BIAO, DE
[72] ESENLIK, SEMIH, DE
[72] KOTRA, ANAND MEHER, DE
[72] GAO, HAN, DE
[72] ALSHINA, ELENA ALEXANDROVNA, DE
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-01-24
[86] 2020-07-20 (PCT/CN2020/103055)
[87] (WO2021/017923)
[30] EP (PCT/EP2019/070804) 2019-08-01

[21] **3,145,480**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01)**
[25] EN
[54] **IMMUNE CELLS WITH ENHANCED CYTOTOXICITY AND METHODS OF USE THEREOF**
[54] **CELLULES IMMUNITAIRES A CYTOTOXICITE AMELIOREE ET LEURS PROCEDES D'UTILISATION**
[72] WALTON, ZANDRA, US
[72] STINE, ZACHARY, US
[72] GONG, YAOYU, US
[72] DANG, CHI VAN, US
[71] LUDWIG INSTITUTE FOR CANCER RESEARCH LTD, CH
[71] THE WISTAR INSTITUTE, US
[85] 2022-01-24
[86] 2020-07-24 (PCT/US2020/043505)
[87] (WO2021/021631)
[30] US (62/879,220) 2019-07-26

[21] **3,145,482**
[13] A1

[51] **Int.Cl. G06F 15/173 (2006.01)**
[25] EN
[54] **DATA CACHE MECHANISM THROUGH DUAL SIM PHONE**
[54] **MECANISME DE MEMOIRE CACHE DE DONNEES FONCTIONNANT PAR LE BIAIS D'UN TELEPHONE A DOUBLE SIM**
[72] SEVINDIK, VOLKAN, US
[72] SYED, HAIDER, US
[71] CHARTER COMMUNICATIONS OPERATING, LLC, US
[85] 2022-01-24
[86] 2020-10-16 (PCT/US2020/055963)
[87] (WO2021/076878)
[30] US (16/656,525) 2019-10-17

[21] **3,145,483**
[13] A1

[51] **Int.Cl. G05B 19/042 (2006.01) H02J 13/00 (2006.01)**
[25] EN
[54] **GRANULAR POWER RAMPING**
[54] **AUGMENTATION DE LA PUISSANCE GRANULAIRE**
[72] MCNAMARA, MICHAEL T., US
[72] CLINE, RAYMOND E. JR., US
[71] LANCIUM LLC, US
[85] 2022-01-24
[86] 2020-07-31 (PCT/US2020/044536)
[87] (WO2021/022174)
[30] US (16/529,360) 2019-08-01

[21] **3,145,484**
[13] A1

[51] **Int.Cl. A61B 90/70 (2016.01) A61B 1/00 (2006.01) A61L 2/28 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS TO EVALUATE INTERNAL FLEXIBLE ENDOSCOPE CHANNELS IN THE CONTEXT OF ENDOSCOPE PORTS AND CHANNEL COMPLEXITIES**
[54] **PROCEDE ET APPAREIL POUR EVALUER DES CANAUX D'ENDOSCOPE SOUPLES INTERNES DANS LE CONTEXTE DE PORTS D'ENDOSCOPE ET DE COMPLEXITES DE CANAL**
[72] ROBINSON, NANCY A., US
[71] AMERICAN STERILIZER COMPANY, US
[85] 2022-01-24
[86] 2020-08-12 (PCT/US2020/045860)
[87] (WO2021/034557)
[30] US (16/542,734) 2019-08-16

[21] **3,145,486**
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **MODIFYING COMPUTING SYSTEM OPERATIONS BASED ON COST AND POWER CONDITIONS**
[54] **MODIFICATION D'OPERATIONS DE SYSTEME INFORMATIQUE SUR LA BASE DE CONDITIONS DE COUT ET DE PUISSANCE**
[72] MCNAMARA, MICHAEL T., US
[72] CLINE, RAYMOND E. JR., US
[71] LANCIUM LLC, US
[85] 2022-01-24
[86] 2020-07-31 (PCT/US2020/044539)
[87] (WO2021/022175)
[30] US (16/529,402) 2019-08-01

Demandes PCT entrant en phase nationale

[21] **3,145,487**
[13] A1

[51] **Int.Cl. H01J 1/02 (2006.01) H01J 1/16 (2006.01)**
[25] EN
[54] **EMITTER STRUCTURES FOR ENHANCED THERMIONIC EMISSION**
[54] **STRUCTURES EMETTRICES POUR EMISSION THERMOIONIQUE AMELIOREE**
[72] EBERSOHN, FRANS HENDRIK, US
[72] SOVEREIGN, RANDALL JAMES, US
[72] HEINRICH, JONATHAN ROBERT, US
[72] SULLIVAN, REGINA MARIKO, US
[71] LOCKHEED MARTIN CORPORATION, US
[85] 2022-01-24
[86] 2020-07-07 (PCT/US2020/040974)
[87] (WO2021/021392)
[30] US (16/529,409) 2019-08-01

[21] **3,145,488**
[13] A1

[51] **Int.Cl. B64G 3/00 (2006.01) G06F 30/20 (2020.01) B64G 1/24 (2006.01) G06F 3/048 (2013.01) G06T 11/20 (2006.01)**
[25] EN
[54] **SYSTEMS AND VISUALIZATION INTERFACES FOR ORBITAL PATHS AND PATH PARAMETERS OF SPACE OBJECTS**
[54] **SYSTEMES ET INTERFACES DE VISUALISATION POUR TRAJECTOIRES ORBITALES ET PARAMETRES DE TRAJET D'OBJETS SPATIAUX**
[72] HENDRIX, DOUGLAS LEE, US
[72] THERIEN, WILLIAM ALEXANDER, US
[71] EXOANALYTIC SOLUTIONS, INC., US
[85] 2022-01-24
[86] 2020-07-24 (PCT/US2020/043506)
[87] (WO2021/016563)
[30] US (62/878,687) 2019-07-25
[30] US (63/022,236) 2020-05-08

[21] **3,145,491**
[13] A1

[51] **Int.Cl. C07K 14/64 (2006.01) C07K 16/00 (2006.01)**
[25] EN
[54] **RELAXIN ANALOGS AND METHODS OF USING THE SAME**
[54] **ANALOGUES DE LA RELAXINE ET LEURS PROCÉDES D'UTILISATION**
[72] LEE, STACEY LYNN, US
[72] VERDINO, PETRA, US
[72] WANG, XIAOJUN, US
[71] ELI LILLY AND COMPANY, US
[85] 2022-01-24
[86] 2020-07-31 (PCT/US2020/044462)
[87] (WO2021/022139)
[30] US (62/880,968) 2019-07-31
[30] US (62/970,005) 2020-02-04

[21] **3,145,501**
[13] A1

[51] **Int.Cl. B27D 3/02 (2006.01) B29C 70/54 (2006.01)**
[25] EN
[54] **COMPONENT MADE FROM A MATERIAL CONSISTING PREDOMINANTLY OF RENEWABLE RAW MATERIALS, HAVING AT LEAST ONE COMPRESSED REGION, AND METHOD AND TOOL FOR PRODUCING THE COMPRESSED REGION**
[54] **COMPOSANT REALISE A PARTIR D'UN MATERIAU COMPOSE PRINCIPALEMENT DE MATIERES PREMIERES RENOVELABLES, AYANT AU MOINS UNE ZONE COMPRIMEE, ET PROCEDE ET OUTIL POUR PRODUIRE LA ZONE COMPRIMEE**
[72] ALT, CHRISTOPH, DE
[72] PENNO, ERIC, DE
[72] EICHHORN, SVEN, DE
[72] ECKARDT, RONNY, DE
[71] TECHNISCHE UNIVERSITAT CHEMNITZ, DE
[85] 2022-01-24
[86] 2020-07-31 (PCT/DE2020/100684)
[87] (WO2021/018354)
[30] DE (20 2019 104 241.9) 2019-08-01

[21] **3,145,503**
[13] A1

[51] **Int.Cl. G01D 18/00 (2006.01)**
[25] EN
[54] **DEFORMABLE SENSOR**
[54] **CAPTEUR DEFORMABLE**
[72] TURUNEN, MIKKO, FI
[72] JARVINEN, PETRI, FI
[72] ISO-KETOLA, PEKKA, FI
[71] FORCIOT OY, FI
[85] 2022-01-24
[86] 2020-09-04 (PCT/EP2020/074760)
[87] (WO2021/043975)
[30] EP (19397526.5) 2019-09-06

[21] **3,145,504**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2012.01)**
[25] EN
[54] **ASSET TRANSACTION SYSTEM FOR ENABLING TRANSPARENT TRANSACTION HISTORY MANAGEMENT**
[54] **SYSTEME DE NEGOCIATION DE BIENS PERMETTANT UNE GESTION D'HISTORIQUE DE NEGOCIATION TRANSPARENTE**
[72] KIM, HYUNG JUN, KR
[72] KIM, KANG HWA, KR
[71] TESSA CO., LTD., KR
[85] 2022-01-24
[86] 2021-02-19 (PCT/KR2021/002132)
[87] (WO2021/172817)
[30] KR (10-2020-0023679) 2020-02-26

PCT Applications Entering the National Phase

[21] **3,145,505**
[13] A1

[51] **Int.Cl. G06F 16/2457 (2019.01) G06F 21/62 (2013.01) G06F 21/64 (2013.01) G06F 16/248 (2019.01) H04L 9/06 (2006.01) H04L 9/08 (2006.01)**

[25] EN

[54] **STAGED INFORMATION EXCHANGE FACILITATED BY CONTENT-ADDRESSABLE RECORDS INDEXED TO PSEUDONYMOUS IDENTIFIERS BY A TAMPER-EVIDENT DATA STRUCTURE**

[54] **ECHANGE D'INFORMATIONS PAR ETAPES FACILITEE PAR DES ENREGISTREMENTS ADRESSABLES PAR LE CONTENU INDEXES A DES IDENTIFIANTS PSEUDONYMES PAR UNE STRUCTURE DE DONNEES INVIOLEABLE**

[72] RIND, ERIK H, US
[72] DORDEVIC, NENAD, US
[72] TENLY, CHARLES, US
[72] ROSEN, MICHAEL, US
[72] RIND, GREG, US
[71] IMAGINEBC, US
[85] 2022-01-24
[86] 2020-07-21 (PCT/US2020/042922)
[87] (WO2021/016268)
[30] US (16/520,534) 2019-07-24

[21] **3,145,506**
[13] A1

[51] **Int.Cl. C25C 3/02 (2006.01) C25C 7/02 (2006.01) C25C 7/04 (2006.01)**

[25] EN

[54] **MOLTEN SALT MEMBRANE ELECTROLYZER**

[54] **ELECTROLYSEUR DE SELS FONDUS A MEMBRANE**

[72] JASTRZEBSKI, MACIEJ URBAN, CA
[72] JOHNSTON, TIMOTHY GEORGE, CA
[71] 2555663 ONTARIO LIMITED, CA
[85] 2022-01-24
[86] 2020-07-24 (PCT/CA2020/051021)
[87] (WO2021/012055)
[30] US (62/878,444) 2019-07-25

[21] **3,145,507**
[13] A1

[51] **Int.Cl. A61K 31/20 (2006.01) A61P 25/08 (2006.01)**

[25] EN

[54] **CLINICAL METHODS AND PHARMACEUTICAL COMPOSITIONS EMPLOYING AMPA RECEPTOR ANTAGONISTS TO TREAT GLIOBLASTOMA AND OTHER CANCERS**

[54] **METHODES CLINIQUES ET COMPOSITIONS PHARMACEUTIQUES UTILISANT DES ANTAGONISTES DES RECEPTEURS AMPA POUR TRAITER UN GLIOBLASTOME ET D'AUTRES CANCERS**

[72] RADIN, DANIEL PIERCE, US
[71] WITH GREAT POWER, LLC, US
[85] 2022-01-24
[86] 2019-07-25 (PCT/US2019/043525)
[87] (WO2020/023800)
[30] US (62/703,951) 2018-07-27
[30] US (62/796,032) 2019-01-23

[21] **3,145,508**
[13] A1

[51] **Int.Cl. B01L 3/02 (2006.01) G01N 35/00 (2006.01) G01N 35/10 (2006.01)**

[25] EN

[54] **AN ASPIRATE-DISPENSE APPARATUS AND ASSOCIATED METHODS**

[54] **APPAREIL D'ASPIRATION-DISTRIBUTION ET PROCEDES ASSOCIES**

[72] WESTAD, NATHAN LUTHER, US
[72] HAUG, ANDREW RICHARD, US
[71] DOUGLAS SCIENTIFIC, LLC, US
[85] 2022-01-24
[86] 2020-07-23 (PCT/GB2020/051769)
[87] (WO2021/023968)
[30] US (62/882,034) 2019-08-02

[21] **3,145,509**
[13] A1

[51] **Int.Cl. A61B 6/02 (2006.01) A61B 6/00 (2006.01) A61B 6/14 (2006.01) G06T 11/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR GENERATING MULTI-VIEW SYNTHETIC DENTAL RADIOGRAPHS FOR INTRAORAL TOMOSYNTHESIS**

[54] **SYSTEMES ET PROCEDES DE GENERATION DE RADIOGRAPHIES DENTAIRES SYNTHETIQUES A VUES MULTIPLES POUR TOMOSYNTHESE INTRABUCCALE**

[72] PUETT, CONNOR, US
[72] ZHOU, OTTO Z., US
[72] LU, JIANPING, US
[72] INSCOE, CHRISTINA, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2022-01-24
[86] 2020-08-21 (PCT/US2020/047319)
[87] (WO2021/035109)
[30] US (62/889,932) 2019-08-21

[21] **3,145,510**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 5/078 (2010.01) A61K 35/17 (2015.01)**

[25] EN

[54] **NK CELL COMPOSITION AND PREPARATIONS FOR IMMUNOTHERAPY AND METHODS FOR THEIR PRODUCTION**

[54] **COMPOSITION DE CELLULES NK ET PREPARATIONS POUR IMMUNOTHERAPIE ET LEURS PROCEDES DE PRODUCTION**

[72] DELANEY, COLLEEN, US
[72] STOLZMAN, CARRIE, US
[72] DAM, ELIZABETH, US
[72] PRIEVE, MARY, US
[71] DEVERRA THERAPEUTICS INC., US
[85] 2022-01-24
[86] 2020-07-29 (PCT/US2020/044117)
[87] (WO2021/021963)
[30] US (62/880,044) 2019-07-29
[30] US (62/960,507) 2020-01-13
[30] US (62/892,779) 2019-08-28

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[21] **3,145,511**
[13] A1

[51] **Int.Cl. B65D 5/38 (2006.01) B65D 5/66 (2006.01) B65D 5/68 (2006.01) C11D 17/04 (2006.01)**

[25] EN
[54] **CONSUMER PRODUCT**
[54] **PRODUIT DE CONSOMMATION**
[72] NG PAK LEUNG, CLARA SOPHIE, BE
[72] HOEFTE, PAULUS ANTONIUS AUGUSTINUS, BE
[72] LEFLERE, JOOST, BE
[72] MARTINEZ-BECARES, ALBERTO, BE
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-01-24
[86] 2020-08-11 (PCT/US2020/070395)
[87] (WO2021/030837)
[30] EP (19191699.8) 2019-08-14
[30] EP (20189610.7) 2020-08-05

[21] **3,145,512**
[13] A1

[51] **Int.Cl. C07C 323/12 (2006.01) C08K 5/58 (2006.01)**

[25] EN
[54] **LOW FREE 2-MERCAPTOETHANOL ESTER AND USES THEREOF**
[54] **ESTER DE 2-MERCAPTOETHANOL LIBRE A FAIBLE POIDS MOLECULAIRE ET SES UTILISATIONS**
[72] ROSS, KEVIN JOHN, CA
[72] NORRIS, GENE KELLY, US
[72] DUNLAP, JEREMY, US
[71] PMC ORGANOMETALLIX, INC., US
[85] 2022-01-24
[86] 2020-07-24 (PCT/US2020/043440)
[87] (WO2021/016535)
[30] US (62/878,040) 2019-07-24

[21] **3,145,513**
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01) E01F 9/518 (2016.01) E01F 9/524 (2016.01) C09D 7/45 (2018.01) E01C 23/14 (2006.01) E01C 23/22 (2006.01)**

[25] EN
[54] **RAPID CURE PAINT TECHNOLOGY**
[54] **TECHNOLOGIE DE PEINTURE A DURCISSEMENT RAPIDE**
[72] HOLMES, VICTOR, NZ
[72] SOMA, KISHOR, NZ
[71] DAMAR INDUSTRIES LIMITED, NZ
[85] 2022-01-24
[86] 2020-07-30 (PCT/NZ2020/050080)
[87] (WO2021/020975)
[30] NZ (755899) 2019-07-30

[21] **3,145,514**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C12N 5/09 (2010.01) A61K 38/00 (2006.01) A61K 41/00 (2020.01) A61P 35/00 (2006.01)**

[25] EN
[54] **VACCINATION WITH MICROVESICLES DERIVED FROM TUMOUR CELLS FOR CANCER TREATMENT**
[54] **VACCINATION AVEC DES MICROVESICULES DERIVEES DE CELLULES TUMORALES POUR LE TRAITEMENT DU CANCER**
[72] PINEDA OLVERA, BENJAMIN, MX
[72] PEREZ DE LA CRUZ, VERONICA, MX
[71] PINEDA OLVERA, BENJAMIN, MX
[71] PEREZ DE LA CRUZ, VERONICA, MX
[85] 2022-01-24
[86] 2018-07-31 (PCT/IB2018/055740)
[87] (WO2020/026001)

[21] **3,145,515**
[13] A1

[51] **Int.Cl. B02C 2/04 (2006.01)**

[25] EN
[54] **A CRUSHER**
[54] **BROYEUR**
[72] BIONDILLO, JOE, AU
[72] SUE, AYRTON, AU
[72] BOLTON, LEE, AU
[72] BERTI, DANIEL, AU
[71] WESCONE DISTRIBUTION PTY LTD, AU
[85] 2022-01-24
[86] 2020-08-10 (PCT/AU2020/050827)
[87] (WO2021/026598)
[30] AU (2019902955) 2019-08-15

[21] **3,145,556**
[13] A1

[51] **Int.Cl. A61M 1/28 (2006.01) G16H 20/10 (2018.01) G16H 20/40 (2018.01) A61M 1/16 (2006.01)**

[25] EN
[54] **AUTOMATED PERITONEAL DIALYSIS DEVICE, SYSTEM AND METHOD OF CUSTOMIZING DIALYSATE SOLUTIONS**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE DIALYSE PERITONEALE AUTOMATISEE POUR LA PERSONNALISATION DE SOLUTIONS DE DIALYSAT**
[72] LINDO, STEVE J., US
[72] PENDERGRAFT, RICHARD A., US
[72] HENDERSON, JACOB, US
[72] MALLERY, ERIKA, US
[72] ARMENT, ALEXANDRA, US
[71] SIMERGENT LLC, US
[85] 2022-01-24
[86] 2020-08-10 (PCT/US2020/045617)
[87] (WO2021/030266)
[30] US (62/885,058) 2019-08-09
[30] US (16/988,968) 2020-08-10

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[21] **3,145,561**
[13] A1

[51] **Int.Cl. B65D 5/38 (2006.01) B65D 5/66 (2006.01) B65D 5/68 (2006.01) C11D 17/04 (2006.01)**

[25] EN
[54] **CONSUMER PRODUCT**
[54] **PRODUIT DE CONSOMMATION**
[72] NG PAK LEUNG, CLARA SOPHIE, BE
[72] HOEFTE, PAULUS ANTONIUS AUGUSTINUS, BE
[72] LEFLERE, JOOST, BE
[72] MARTINEZ-BECARES, ALBERTO, BE
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-01-25
[86] 2020-08-11 (PCT/US2020/070396)
[87] (WO2021/030838)
[30] EP (19191707.9) 2019-08-14
[30] EP (20189797.2) 2020-08-06

[21] **3,145,588**
[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01) B07B 1/06 (2006.01) B07B 1/40 (2006.01) B07B 1/42 (2006.01) B07B 1/50 (2006.01)**

[25] EN
[54] **SEPARATION DEVICE AND METHOD OF OPERATION**
[54] **DISPOSITIF DE SEPARATION ET PROCEDE DE FONCTIONNEMENT**
[72] CARRASCO, CESAR, CH
[71] A O IDEAS GMBH, CH
[85] 2022-01-25
[86] 2020-07-31 (PCT/EP2020/071701)
[87] (WO2021/019087)
[30] EP (19189382.5) 2019-07-31
[30] EP (19194810.8) 2019-09-01

[21] **3,145,598**
[13] A1

[51] **Int.Cl. A24C 5/56 (2006.01)**

[25] EN
[54] **TIPPING WRAPPER FOR AEROSOL GENERATING ARTICLE**
[54] **ENVELOPPE D'EXTREMITE POUR ARTICLE DE GENERATION D'AEROSOL**
[72] HIDESHIMA, TAKU, LU
[71] JT INTERNATIONAL SA, CH
[85] 2022-01-25
[86] 2020-07-30 (PCT/EP2020/071512)
[87] (WO2021/019016)
[30] EP (19189339.5) 2019-07-31

[21] **3,145,608**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61P 3/10 (2006.01)**

[25] EN
[54] **GIPR-AGONIST COMPOUNDS**
[54] **COMPOSES AGONISTES DE GIPR**
[72] ALSINA-FERNANDEZ, JORGE, US
[72] GEISER, ANDREA RENEE, US
[72] GUO, LILI, US
[72] KEYSER, SAMANTHA GRACE LYONS, US
[72] LEE, JOHN, US
[72] QU, HONGCHANG, US
[72] ROELL, WILLIAM CHRISTOPHER, US
[71] ELI LILLY AND COMPANY, US
[85] 2022-01-25
[86] 2020-07-29 (PCT/US2020/043988)
[87] (WO2021/021877)
[30] US (62/881,685) 2019-08-01

[21] **3,145,609**
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 39/00 (2006.01)**

[25] EN
[54] **CELL THERAPY METHODS**
[54] **METHODES DE THERAPIE CELLULAIRE**
[72] GRAHLERT, JASMIN, CH
[72] HESS, CHRISTOPH, CH
[71] UNIVERSITAT BASEL, CH
[85] 2022-01-25
[86] 2020-08-19 (PCT/EP2020/073195)
[87] (WO2021/032779)
[30] EP (19192299.6) 2019-08-19

[21] **3,145,614**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61P 43/00 (2006.01) C07K 14/71 (2006.01) C07K 14/715 (2006.01) C07K 16/22 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01)**

[25] EN
[54] **CHIMERIC CYTOKINE RECEPTORS COMPRISING TGF BETA BINDING DOMAINS**
[54] **RECEPTEURS DE CYTOKINES CHIMERIQUES COMPRENANT DES DOMAINES DE LIAISON DE TGF-BETA**
[72] LIN, REGINA JUNHUI, US
[72] VAN BLARCOM, THOMAS JOHN, US
[72] PANOWSKI, SILER, US
[72] LANG, SHANSHAN, US
[72] SASU, BARBRA JOHNSON, US
[71] ALLOGENE THERAPEUTICS, INC., US
[85] 2022-01-25
[86] 2020-08-28 (PCT/US2020/048402)
[87] (WO2021/041806)
[30] US (62/894,658) 2019-08-30
[30] US (63/053,322) 2020-07-17

[21] **3,145,621**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 39/00 (2006.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01)**

[25] EN
[54] **HIGH CONCENTRATION ANTI-C5 FORMULATIONS**
[54] **FORMULATIONS D'ANTICORPS ANTI-C5 A CONCENTRATION ELEVEE**
[72] KLEPPE, MARY, US
[72] PATEL, MAYANK, US
[72] TANG, XIAOLIN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-01-25
[86] 2020-08-14 (PCT/US2020/046314)
[87] (WO2021/034639)
[30] US (62/888,086) 2019-08-16

Demandes PCT entrant en phase nationale

[21] **3,145,623**
[13] A1

[51] **Int.Cl. A61F 2/60 (2006.01) A61F 2/66 (2006.01) A61H 1/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ENHANCING OPERATION OF LEG PROSTHESIS**

[54] **PROCEDE ET APPAREIL POUR AMELIORER LE FONCTIONNEMENT D'UNE PROTHESE DE JAMBE**

[72] CHOI, HWAN, US

[72] CARBONELL, GABRIEL RIOS, US

[71] UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC., US

[85] 2022-01-25

[86] 2020-08-03 (PCT/US2020/044726)

[87] (WO2021/022248)

[30] US (62/881,648) 2019-08-01

[21] **3,145,638**
[13] A1

[51] **Int.Cl. H01B 17/32 (2006.01) H01B 17/40 (2006.01) H01B 19/02 (2006.01)**

[25] EN

[54] **MOISTURE SEAL FOR HIGH VOLTAGE INSULATOR**

[54] **JOINT ETANCHE A L'HUMIDITE POUR ISOLATEUR HAUTE TENSION**

[72] CLEMENT, CHARLES, US

[72] MERCEDAT, GUBERSON, US

[72] GRENIER, GRAY, US

[71] MARMON UTILITY, LLC, US

[85] 2022-01-25

[86] 2020-07-27 (PCT/US2020/043728)

[87] (WO2021/016619)

[30] US (16/522,040) 2019-07-25

[21] **3,145,641**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4353 (2006.01) A61K 31/5025 (2006.01) A61P 3/00 (2006.01) A61P 9/10 (2006.01) A61P 25/28 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **TRKB POSITIVE ALLOSTERIC MODULATORS**

[54] **MODULATEURS ALLOSTERIQUES POSITIFS AU TRKB**

[72] ROGNAN, DIDIER, FR

[72] SCHMITT, MARTINE, FR

[72] CAZORLA, MAXIME, FR

[71] UNIVERSITE DE STRASBOURG, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR

[71] UNIVERSITE GRENOBLE ALPES, FR

[85] 2022-01-25

[86] 2020-08-07 (PCT/EP2020/072233)

[87] (WO2021/023858)

[30] EP (19315090.1) 2019-08-08

[21] **3,145,649**
[13] A1

[51] **Int.Cl. C12Q 1/02 (2006.01) C12Q 1/04 (2006.01) C12Q 1/06 (2006.01) C12Q 1/18 (2006.01) C12Q 1/20 (2006.01) C12Q 1/24 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHOD FOR ANTIBIOTIC SUSCEPTIBILITY TESTING OF BLOOD SAMPLES**

[54] **METHODE DE TEST DE SENSIBILITE AUX ANTIBIOTIQUES D'ECHANTILLONS DE SANG**

[72] HALFORD, COLIN WYNN, US

[72] CHURCHMAN, SCOTT ADAM, US

[72] JANECZKO, RICHARD, US

[71] MICROBEDX, INC., US

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

[85] 2022-01-25

[86] 2020-07-28 (PCT/US2020/043830)

[87] (WO2021/021782)

[30] US (62/879,709) 2019-07-29

[21] **3,145,651**
[13] A1

[51] **Int.Cl. A61K 31/55 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **7,8-DIHYDRO-4H-PYRAZOLO[4,3-C]AZEPINE-6-ONE COMPOUNDS**

[54] **COMPOSES DE 7,8-DIHYDRO-4H-PYRAZOLO [4,3-C] AZEPINE-6-ONE**

[72] LUMERAS AMADOR, WENCESLAO, US

[72] BRANDHUBER, BARBARA JEAN, US

[71] ELI LILLY AND COMPANY, US

[85] 2022-01-25

[86] 2020-08-03 (PCT/US2020/044718)

[87] (WO2021/026059)

[30] EP (19382680.7) 2019-08-05

[21] **3,145,665**
[13] A1

[51] **Int.Cl. H01L 31/118 (2006.01) H01L 27/146 (2006.01)**

[25] FR

[54] **ONE-PIECE DEVICE FOR DETECTING PARTICLES WITH SEMICONDUCTOR MATERIAL**

[54] **DISPOSITIF MONOBLOC DE DETECTION DE PARTICULES A MATERIAU SEMI-CONDUCTEUR**

[72] VERVISCH, WILFRIED, FR

[71] UNIVERSITE D'AIX-MARSEILLE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[85] 2022-01-25

[86] 2020-07-22 (PCT/FR2020/051335)

[87] (WO2021/019155)

[30] FR (FR1908506) 2019-07-26

PCT Applications Entering the National Phase

[21] **3,145,678**
[13] A1

[51] **Int.Cl. C07D 309/10 (2006.01) A61K 31/7034 (2006.01) A61P 3/10 (2006.01) C07H 7/04 (2006.01)**

[25] EN

[54] **SGLT2/DPP4 INHIBITOR AND APPLICATION THEREOF**

[54] **INHIBITEUR DE SGLT2/DPP4 ET SON APPLICATION**

[72] MAO, QINGHUA, CN

[72] YU, TAO, CN

[72] GAN, LU, CN

[72] LI, YI, CN

[72] WU, CHENGDE, CN

[72] CHEN, SHUHUI, CN

[71] MEDSHINE DISCOVERY INC., CN

[85] 2022-01-25

[86] 2020-07-24 (PCT/CN2020/104521)

[87] (WO2021/018044)

[30] CN (201910683099.2) 2019-07-26

[30] CN (202010119914.5) 2020-02-26

[30] CN (202010572226.4) 2020-06-22

[21] **3,145,680**
[13] A1

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

[25] EN

[54] **PYRIDINE DERIVATIVE AS FGFR AND VEGFR DUAL INHIBITORS**

[54] **DERIVE DE PYRIDINE SERVANT D'INHIBITEURS DOUBLES DE FGFR ET VEGFR**

[72] CHEN, ZHENGXIA, CN

[72] DAI, MEIBI, CN

[72] ZHANG, YANG, CN

[72] CHEN, SHUHUI, CN

[71] MEDSHINE DISCOVERY INC., CN

[85] 2022-01-25

[86] 2020-07-24 (PCT/CN2020/104550)

[87] (WO2021/018047)

[30] CN (201910684252.3) 2019-07-26

[30] CN (201911266249.6) 2019-12-11

[30] CN (202010230493.3) 2020-03-27

[21] **3,145,684**
[13] A1

[51] **Int.Cl. C09D 5/02 (2006.01) C08F 290/06 (2006.01) C08F 290/14 (2006.01) C08G 18/08 (2006.01) C08G 18/10 (2006.01) C08G 18/32 (2006.01) C08G 18/34 (2006.01) C08G 18/42 (2006.01) C08G 18/66 (2006.01) C08G 18/67 (2006.01) C08G 18/75 (2006.01) C09D 17/00 (2006.01) C09D 151/08 (2006.01) C09D 175/06 (2006.01)**

[25] EN

[54] **MIXER SYSTEM FOR PRODUCING AQUEOUS COATING MATERIALS WITH LOW VOC**

[54] **SYSTEME MELANGEUR POUR LA PRODUCTION DE MATERIAUX DE REVETEMENT AQUEUX A FAIBLE TENEUR EN COV**

[72] STEFFENS, ALEXANDRA, DE

[72] LETTMANN, BERNHARD, DE

[72] RADEMACHER, JOSEF, DE

[72] HOFFMANN, PETER, DE

[71] BASF COATINGS GMBH, DE

[85] 2022-01-25

[86] 2020-07-15 (PCT/EP2020/070032)

[87] (WO2021/018595)

[30] EP (19189314.8) 2019-07-31

[21] **3,145,686**
[13] A1

[51] **Int.Cl. C07D 239/48 (2006.01)**

[25] EN

[54] **PYRIMIDINE COMPOUND ACTING ON EGFR AND ERBB2**

[54] **COMPOSE PYRIMIDINE AGISSANT SUR EGFR ET ERBB2**

[72] DING, CHARLES Z., CN

[72] ZHANG, LU, CN

[72] LIU, XILE, CN

[72] HU, LIHONG, CN

[72] JIANG, WEN, CN

[72] LI, JIAN, CN

[72] CHEN, SHUHUI, CN

[71] MEDSHINE DISCOVERY INC., CN

[85] 2022-01-25

[86] 2020-07-24 (PCT/CN2020/103985)

[87] (WO2021/018017)

[30] CN (201910684658.1) 2019-07-26

[21] **3,145,687**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61K 38/00 (2006.01) A61P 7/00 (2006.01) A61P 31/18 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING ALPHA THALASSEMIA**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D' ALPHA-THALASSEMIE**

[72] MACKENZIE, TIPPI, US

[72] WIENERT, BEEKE, US

[72] PORTEUS, MATTHEW H., US

[72] CROMER, MICHAEL KYLE, US

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

[71] THE J. DAVID GLADSTONE INSTITUTES, A TESTAMENTARY TRUST ESTABLISHED UNDER THE WILL OF J. DAVID GLADSTONE, US

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

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[86] 2020-07-31 (PCT/US2020/044562)

[87] (WO2021/022189)

[30] US (62/881,726) 2019-08-01

[21] **3,145,688**
[13] A1

[51] **Int.Cl. A01N 65/22 (2009.01) A01N 65/03 (2009.01) A01N 65/08 (2009.01) A01N 65/12 (2009.01) A01P 1/00 (2006.01) A01P 3/00 (2006.01) A01P 21/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS OF A BOTANICAL EXTRACT TO PROMOTE AND BOOST PLANT GROWTH AND PREVENT AND SUPPRESS PLANT DISEASES**

[54] **PROCEDES ET COMPOSITIONS D'UN EXTRAIT BOTANIQUE POUR FAVORISER ET STIMULER LA CROISSANCE DES PLANTES ET PREVENIR ET SUPPRIMER LES MALADIES DES PLANTES**

[72] CHAMBERLAND, GUY, CA

[72] SAMSATLY, JAMIL, CA

[71] PRODUITS BIO SUN INC., CA

[85] 2022-01-25

[86] 2020-07-27 (PCT/CA2020/051030)

[87] (WO2021/012060)

[30] US (62/878,600) 2019-07-25

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[13] A1

[51] **Int.Cl. A01N 43/54 (2006.01) C07D 401/04 (2006.01)**
[25] EN
[54] **HERBICIDAL URACILPYRIDINES**
[54] **URACYLPYRIDINES HERBICIDES**
[72] PETKOVA, DESISLAVA
SLAVCHEVA, DE
[72] WITSCHER, MATTHIAS, DE
[72] SEISER, TOBIAS, DE
[72] NEWTON, TREVOR WILLIAM, DE
[72] SOUILLART, LAETITIA, DE
[71] BASF SE, DE
[85] 2022-01-25
[86] 2020-07-21 (PCT/EP2020/070512)
[87] (WO2021/018664)
[30] EP (19189576.2) 2019-08-01

[21] **3,145,694**
[13] A1

[51] **Int.Cl. C07D 239/48 (2006.01) A61K 31/505 (2006.01) A61P 3/00 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **PYRIMIDINE-5-CARBOXAMIDE COMPOUND**
[54] **COMPOSE PYRIMIDINE-5-CARBOXAMIDE**
[72] RUENO PLAZA, GEMA, US
[71] ELI LILLY AND COMPANY, US
[85] 2022-01-25
[86] 2020-07-31 (PCT/US2020/044394)
[87] (WO2021/025975)
[30] EP (19382686.4) 2019-08-06
[30] EP (19382744.1) 2019-09-02

[21] **3,145,695**
[13] A1

[51] **Int.Cl. E21B 43/11 (2006.01)**
[25] EN
[54] **WELL STRING TOOL AND METHOD FOR USING THE SAME**
[54] **OUTIL DE TIGES DE PRODUCTION ET SON PROCEDE D'UTILISATION**
[72] DALY, KERRY G., US
[71] EXPRO AMERICAS LLC, US
[85] 2022-01-25
[86] 2020-08-06 (PCT/US2020/045127)
[87] (WO2021/026306)
[30] US (62/884,474) 2019-08-08

[21] **3,145,696**
[13] A1

[51] **Int.Cl. G01S 13/89 (2006.01)**
[25] EN
[54] **IMAGE CHANGE DETECTION DEVICE AND IMAGE CHANGE DETECTION METHOD**
[54] **DISPOSITIF DE DETECTION DE CHANGEMENT D'IMAGE ET SYSTEME DE DETECTION DE CHANGEMENT D'IMAGE**
[72] YATAKA, RYOMA, JP
[72] SHIRAISHI, MASASHI, JP
[71] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2022-01-25
[86] 2019-08-09 (PCT/JP2019/031690)
[87] (WO2021/028978)

[21] **3,145,698**
[13] A1

[51] **Int.Cl. G03B 15/02 (2021.01)**
[25] EN
[54] **EXTRACTION OF SUBJECT FROM BACKGROUND**
[54] **PYRIMIDINE-5-CARBOXAMIDE COMPOUND**
[72] SAUERMAN, FELIX, US
[71] SONY CORPORATION, JP
[71] SONY PICTURES ENTERTAINMENT INC., US
[85] 2022-01-25
[86] 2020-12-10 (PCT/US2020/064306)
[87] (WO2021/119308)
[30] US (62/947,655) 2019-12-13
[30] US (16/990,267) 2020-08-11

[21] **3,145,699**
[13] A1

[51] **Int.Cl. G06T 15/08 (2011.01) G06T 19/20 (2011.01) G06T 7/70 (2017.01)**
[25] EN
[54] **RENDERING BACK PLATES**
[54] **RENDU DE PLAQUES ARRIERE**
[72] SAUERMAN, FELIX, US
[72] PATTERSON, JOHNNY, US
[71] SONY GROUP CORPORATION, JP
[71] SONY PICTURES ENTERTAINMENT INC., US
[85] 2022-01-25
[86] 2020-12-10 (PCT/US2020/064239)
[87] (WO2021/119272)
[30] US (62/947,687) 2019-12-13
[30] US (16/990,304) 2020-08-11

[21] **3,145,700**
[13] A1

[51] **Int.Cl. C12N 5/0793 (2010.01) C12N 5/0797 (2010.01) G16B 20/00 (2019.01) G01N 33/50 (2006.01)**
[25] EN
[54] **METHODS OF IDENTIFYING DOPAMINERGIC NEURONS AND PROGENITOR CELLS**
[54] **PROCEDES D'IDENTIFICATION DE NEURONES DOPAMINERGIQUES ET DE CELLULES PROGENITRICES**
[72] LORING, JEANNE F., US
[72] WILLIAMS, ROY, US
[72] BRATT-LEAL, ANDRES, US
[72] MULLER, FRANZ-JOSEF, DE
[72] SCHULDT, BERNHARD M., DE
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[71] ASPEN NEUROSCIENCE, INC., US
[71] MULLER, FRANZ-JOSEF, DE
[71] SCHULDT, BERNHARD M., DE
[85] 2022-01-25
[86] 2020-07-24 (PCT/US2020/043627)
[87] (WO2021/016607)
[30] US (62/878,701) 2019-07-25

[21] **3,145,701**
[13] A1

[51] **Int.Cl. A61K 9/50 (2006.01) A61P 9/08 (2006.01) C07K 14/585 (2006.01)**
[25] EN
[54] **ALGINATE-BASED MICROCAPSULATION FOR THE DELIVERY OF ALPHA-CGRP IN CARDIOVASCULAR DISEASES**
[54] **MICRO-ENCAPSULATION A BASE D'ALGINATE POUR L'ADMINISTRATION D'ALPHA-CGRP DANS DES MALADIES CARDIOVASCULAIRES**
[72] KUMAR, AMBRISH, US
[72] POTTS, JAY D., US
[72] DIPETTE, DONALD J., US
[72] BELHAJ, MARWA, US
[71] UNIVERSITY OF SOUTH CAROLINA, US
[85] 2022-01-25
[86] 2020-07-31 (PCT/US2020/044407)
[87] (WO2021/022112)
[30] US (62/880,723) 2019-07-31

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[21] **3,145,702**
[13] A1

[51] **Int.Cl. C07C 233/05 (2006.01)**
[25] EN
[54] **OXIDATION-RESISTANT SERPINS
SERPINES RESISTANT A
L'OXYDATION**
[72] PEMBERTON, PHILIP A., US
[71] SERPLUS TECHNOLOGY LLC, US
[85] 2022-01-25
[86] 2020-07-31 (PCT/US2020/044604)
[87] (WO2021/022212)
[30] US (62/881,858) 2019-08-01

[21] **3,145,703**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P
9/00 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **A PEPTOID-PEPTIDE HYBRID,
NMEG-ACGRP, AND ITS USE IN
CARDIOVASCULAR DISEASES**
[54] **HYBRIDE PEPTOIDE-PEPTIDE,
NMEG-?CGRP, ET SON
UTILISATION DANS DES
MALADIES
CARDIOVASCULAIRES**
[72] POTTS, JAY D., US
[72] KUMAR, AMBRISH, US
[72] DIPETTE, DONALD J., US
[72] SERVOSS, SHANNON, US
[71] UNIVERSITY OF SOUTH
CAROLINA, US
[71] BOARD OF TRUSTEES OF THE
UNIVERSITY OF ARKANSAS, US
[85] 2022-01-25
[86] 2020-07-31 (PCT/US2020/044417)
[87] (WO2021/022117)
[30] US (62/880,749) 2019-07-31

[21] **3,145,704**
[13] A1

[51] **Int.Cl. A01K 1/015 (2006.01)**
[25] EN
[54] **SLAT UNIT FOR LIVESTOCK
BARN**
[54] **GRILLE DE PLANCHER
D'ETABLE**
[72] CHIKAMORI, TAKESHI, JP
[71] U-CHIKA CORPORATION, JP
[85] 2022-01-25
[86] 2020-10-08 (PCT/JP2020/038207)
[87] (WO2021/186775)
[30] JP (2020-050256) 2020-03-19

[21] **3,145,705**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) C09K
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F04C 13/00 (2006.01)**
[25] EN
[54] **ELASTOMER COMPOUNDS FOR
USE WITHIN A BOREHOLE**
[54] **COMPOSES ELASTOMERES
DESTINES A ETRE UTILISES
DANS UN TROU DE FORAGE**
[72] KIM, BYONG JUN, US
[72] RYAN, JAMES H., US
[72] SMITH, CHARLES TIMOTHY, US
[72] TALYA, SHASHISHEKARA, US
[71] HALLIBURTON ENERGY
SERVICES, INC., US
[85] 2022-01-25
[86] 2020-08-31 (PCT/US2020/048755)
[87] (WO2021/066979)
[30] US (62/909,894) 2019-10-03
[30] US (17/005,625) 2020-08-28

[21] **3,145,706**
[13] A1

[51] **Int.Cl. A63F 13/335 (2014.01)**
[25] EN
[54] **A SYSTEM FOR AN
ALTERNATIVE VERSION OF
POKER**
[54] **SYSTEME DESTINE A UNE
VERSION ALTERNATIVE DU
POKER**
[72] HIRSCH, DAVID BRIAN, US
[71] PLATFORM GAMING
TECHNOLOGIES, INC., US
[85] 2022-01-25
[86] 2020-07-27 (PCT/US2020/043739)
[87] (WO2021/030039)
[30] US (62/886,453) 2019-08-14

[21] **3,145,723**
[13] A1

[51] **Int.Cl. B60G 17/015 (2006.01) B60G
17/018 (2006.01) B60G 17/08
(2006.01)**
[25] EN
[54] **ACTIVE-PASSIVE DUAL MODE
SWITCHABLE VEHICLE
SUSPENSION SYSTEM AND
SWITCHING METHOD
THEREFOR**
[54] **SYSTEME DE SUSPENSION DE
VEHICULE COMMUTABLE A
DOUBLE MODE ACTIF-PASSIF
ET SON PROCEDE DE
COMMUTATION**
[72] ZHAO, DINGXUAN, CN
[72] GONG, MINGDE, CN
[72] LIU, SHUANG, CN
[72] ZHANG, ZHUXIN, CN
[72] SUN, ZHIGUO, CN
[72] NI, TAO, CN
[72] YAN, ZHAOYANG, CN
[72] GUO, QINGHE, CN
[71] YANSHAN UNIVERSITY, CN
[85] 2022-01-25
[86] 2020-07-24 (PCT/CN2020/104512)
[87] (WO2021/023026)
[30] CN (201910725158.8) 2019-08-07

[21] **3,145,725**
[13] A1

[51] **Int.Cl. C07C 303/32 (2006.01) C11D
1/94 (2006.01)**
[25] EN
[54] **DISODIUM LAURYL
SULFOSUCCINATE
COMPOSITION**
[54] **COMPOSITION DE
SULFOSUCCINATE DE LAURYLE
DISODIQUE**
[72] D'AVERSA, EUGENE, US
[72] COMBER, ROBERT N., US
[72] ABBEDUTO, DENNIS, US
[72] MCENERY, MOLLY, US
[71] COLONIAL CHEMICAL, INC., US
[85] 2022-01-25
[86] 2020-07-27 (PCT/US2020/043780)
[87] (WO2021/021758)
[30] US (62/878,906) 2019-07-26

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[21] **3,145,745**
[13] A1

[51] **Int.Cl. B64D 33/04 (2006.01)**
[25] EN
[54] **AERODYNAMIC TECHNIQUES AND METHODS FOR QUIETER SUPERSONIC FLIGHT**
[54] **TECHNIQUES AERODYNAMIQUES ET PROCEDES DE VOL SUPERSONIQUE PLUS SILENCIEUX**
[72] ZHANG, CHUANRUI, CN
[71] ZHANG, CHUANRUI, CN
[85] 2022-01-25
[86] 2019-07-01 (PCT/IB2019/055577)
[87] (WO2021/001674)

[21] **3,145,746**
[13] A1

[51] **Int.Cl. B60R 16/023 (2006.01) B60R 1/00 (2022.01) B60W 50/00 (2006.01) G08G 1/16 (2006.01)**
[25] EN
[54] **ADVANCED DISPLAY AND CONTROL SYSTEM FOR DRIVING ASSISTANCE**
[54] **SYSTEME D'AFFICHAGE ET DE COMMANDE EVOLUE POUR ASSISTANCE A LA CONDUITE**
[72] ZHANG, CHUANRUI, CN
[71] ZHANG, CHUANRUI, CN
[85] 2022-01-25
[86] 2019-08-03 (PCT/IB2019/056626)
[87] (WO2021/024017)

[21] **3,145,753**
[13] A1

[51] **Int.Cl. C07F 9/53 (2006.01) C07C 29/86 (2006.01) C07C 51/48 (2006.01)**
[25] EN
[54] **A METHOD OF EXTRACTING CARBONIC ACID, ALIPHATIC ACIDS, ESTERS AND ALCOHOLS FROM AN AQUEOUS MEDIUM**
[54] **PROCEDE D'EXTRACTION D'ACIDE CARBONIQUE, D'ACIDES ALIPHATIQUES, D'ESTERS ET D'ALCOOLS A PARTIR D'UN MILIEU AQUEUX**
[72] HAAS, THOMAS, DE
[72] RICHTER, CHRISTIAN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-01-26
[86] 2020-07-23 (PCT/EP2020/070767)
[87] (WO2021/018717)
[30] EP (19188880.9) 2019-07-29

[21] **3,145,756**
[13] A1

[51] **Int.Cl. A61H 1/02 (2006.01)**
[25] EN
[54] **THERAPY DEVICE**
[54] **DISPOSITIF THERAPEUTIQUE**
[72] FUNFSCHILLING, THOMAS, CH
[72] BEFFA, MARCO, CH
[72] THOMANN, JURG, CH
[71] U-SANA MEDICAL AG, CH
[85] 2022-01-26
[86] 2020-07-31 (PCT/EP2020/071736)
[87] (WO2021/023676)
[30] CH (00993/19) 2019-08-06

[21] **3,145,769**
[13] A1

[51] **Int.Cl. A23K 20/20 (2016.01) A23K 20/105 (2016.01) A23K 20/163 (2016.01) A23K 20/22 (2016.01) A23K 50/10 (2016.01) A23K 50/60 (2016.01)**
[25] EN
[54] **ELECTROLYTE COMPOSITION AND METHODS OF USE**
[54] **COMPOSITION D'ELECTROLYTE ET PROCEDES D'UTILISATION**
[72] WILMS, JULIETTE NINA ROXANNE, NL
[72] MARTIN-TERESO LOPEZ, JAVIER, NL
[71] NUTRECO IP ASSETS B.V., NL
[85] 2022-01-26
[86] 2020-07-29 (PCT/EP2020/071348)
[87] (WO2021/018938)
[30] EP (19188823.9) 2019-07-29

[21] **3,145,783**
[13] A1

[51] **Int.Cl. C12P 19/34 (2006.01) C12N 9/12 (2006.01) C12N 15/54 (2006.01)**
[25] EN
[54] **TEMPLATE-FREE ENZYMATIC SYNTHESIS OF POLYNUCLEOTIDES USING POLY(A) AND POLY(U) POLYMERASES**
[54] **SYNTHESE ENZYMATIQUE SANS MATRICE DE POLYNUCLEOTIDES A L'AIDE DE POLY(A) ET POLY(U) POLYMERASES**
[72] HEINISCH, TILLMANN, FR
[72] CHAMPION, ELISE, FR
[72] SUNE, ELODIE, FR
[72] SOSKINE, MIKHAEL, FR
[71] DNA SCRIPT, FR
[85] 2022-01-26
[86] 2020-07-28 (PCT/EP2020/071314)
[87] (WO2021/018919)
[30] EP (19189192.8) 2019-07-30
[30] EP (20170323.8) 2020-04-20

[21] **3,145,805**
[13] A1

[51] **Int.Cl. A23L 15/00 (2016.01) A23L 27/60 (2016.01) A21D 13/80 (2017.01) A21D 2/26 (2006.01) A23J 1/08 (2006.01) A23J 1/18 (2006.01) A23J 3/04 (2006.01) A23J 3/20 (2006.01) C07K 14/77 (2006.01) C12N 15/81 (2006.01)**
[25] EN
[54] **NON-ANIMAL BASED PROTEIN SOURCES WITH FUNCTIONAL PROPERTIES**
[54] **SOURCES DE PROTEINES D'ORIGINE NON ANIMALE PRESENTANT DES PROPRIETES FONCTIONNELLES**
[72] MAHADEVAN, KRITIKA, US
[72] AYOUGH, FARNOOSH, US
[72] JOSHI, ISHA, US
[72] KREPS, JOEL ANDREW, US
[72] KSHIRSAGAR, HARSHAL, US
[72] IVEY, FRANK DOUGLAS, US
[72] ZHONG, WEIXI, US
[72] LIN, ERIC, US
[72] CHAPEAUX, ALEXANDRE, US
[72] GOVIND, SRIDHARAN, US
[71] CLARA FOODS CO., US
[85] 2022-01-26
[86] 2020-08-19 (PCT/US2020/047076)
[87] (WO2021/034980)
[30] US (62/888,674) 2019-08-19

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[21] **3,145,808**
[13] A1

[51] **Int.Cl. A47L 11/40 (2006.01)**
[25] EN
[54] **DOWN-PRESSURE MOPPING
TYPE SWEEPING ROBOT**
[54] **ROBOT DE BALAYAGE DE SOL
DE TYPE A NETTOYAGE PAR
PRESSION VERS LE BAS**
[72] WANG, SHENGLE, CN
[72] LIU, RUI, CN
[72] FENG, YONGBING, CN
[71] DREAME INNOVATION
TECHNOLOGY (SUZHOU) CO.,
LTD., CN
[85] 2022-01-26
[86] 2019-11-22 (PCT/CN2019/120428)
[87] (WO2021/027178)
[30] CN (201910753522.1) 2019-08-15

[21] **3,145,811**
[13] A1

[51] **Int.Cl. A23N 3/00 (2006.01) A23N
15/00 (2006.01) B07C 5/342 (2006.01)
B65G 43/08 (2006.01)**
[25] EN
[54] **APPARATUS FOR THE
TREATMENT OF
HORTICULTURAL PRODUCTS
AND METHOD FOR
CONTROLLING SUCH
APPARATUS**
[54] **APPAREIL POUR LE
TRAITEMENT DE PRODUITS
HORTICOLES ET PROCEDE DE
COMMANDE D'UN TEL
APPAREIL**
[72] BENEDETTI, LUCA, IT
[71] UNITEC S.P.A., IT
[85] 2022-01-26
[86] 2020-07-31 (PCT/IB2020/057244)
[87] (WO2021/019503)
[30] IT (102019000013407) 2019-07-31

[21] **3,145,820**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P
27/02 (2006.01) C07K 14/435
(2006.01)**
[25] EN
[54] **USES OF DAN FAMILY BMP
ANTAGONISTS FOR INHIBITING
OCULAR
NEOVASCULARIZATION AND
TREATING OCULAR
CONDITIONS**
[54] **UTILISATIONS
D'ANTAGONISTES BMP DE LA
FAMILLE DAN POUR INHIBER
LA NEOVASCULARISATION
OCULAIRE ET TRAITER DES
ETATS OCULAIRES**
[72] BERNIER, GILBERT, CA
[72] LARRIVEE, BRUNO, CA
[71] 9636137 CANADA INC., CA
[85] 2022-01-26
[86] 2020-07-29 (PCT/IB2020/057162)
[87] (WO2021/019464)
[30] US (62/879,755) 2019-07-29

[21] **3,145,844**
[13] A1

[51] **Int.Cl. G06T 7/55 (2017.01) H04N
13/271 (2018.01) H04N 13/282
(2018.01)**
[25] EN
[54] **MULTI-SPECTRAL VOLUMETRIC
CAPTURE**
[54] **CAPTURE VOLUMETRIQUE
MULTISPECTRALE**
[72] METZGER, SCOTT, US
[72] BAILEY, DAVID, US
[71] SONY GROUP CORPORATION, JP
[71] SONY PICTURES
ENTERTAINMENT INC., US
[85] 2022-01-26
[86] 2020-12-11 (PCT/US2020/064513)
[87] (WO2021/119427)
[30] US (62/947,684) 2019-12-13
[30] US (17/119,003) 2020-12-11

[21] **3,145,850**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N
9/88 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PYRENOID-LIKE STRUCTURES
STRUCTURES DE TYPE
PYRENOIDE**
[72] MCCORMICK, ALISTAIR JAMES,
GB
[72] ATKINSON, NICOLA JANE, GB
[71] THE UNIVERSITY COURT OF THE
UNIVERSITY OF EDINBURGH, GB
[85] 2022-01-26
[86] 2020-07-31 (PCT/GB2020/051853)
[87] (WO2021/023982)
[30] GB (1911068.3) 2019-08-02

[21] **3,145,855**
[13] A1

[51] **Int.Cl. C08B 37/08 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING
CHITOSAN**
[54] **PROCEDES DE PRODUCTION DE
CHITOSANE**
[72] MOORES, AUDREY, CA
[72] DI NARDO, THOMAS, CA
[71] THE ROYAL INSTITUTION FOR
THE ADVANCEMENT OF
LEARNING/MCGILL UNIVERSITY,
CA
[85] 2022-01-26
[86] 2019-07-31 (PCT/CA2019/051048)
[87] (WO2020/024053)
[30] US (62/712,500) 2018-07-31

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[21] **3,145,861**
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01)**
[25] EN
[54] **ADDITIONAL MASS TAG POLYMERS FOR MASS CYTOMETRY**
[54] **POLYMERES MARQUEURS DE MASSE SUPPLEMENTAIRES POUR CYTOMETRIE DE MASSE**
[72] LIU, PENG, CA
[72] MAJONIS, DANIEL, CA
[72] BARANOV, VLADIMIR, CA
[72] WINNIK, MITCHELL A., CA
[72] CHO, HYUNJUN, CA
[71] FLUIDIGM CANADA INC., CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2022-01-26
[86] 2020-08-07 (PCT/US2020/045470)
[87] (WO2021/026483)
[30] US (62/884,548) 2019-08-08
[30] US (63/059,545) 2020-07-31

[21] **3,145,866**
[13] A1

[51] **Int.Cl. F16L 5/02 (2006.01) F16L 15/00 (2006.01) F16L 41/08 (2006.01)**
[25] EN
[54] **HYBRID THREAD GEOMETRY FOR THREADED FITTING**
[54] **GEOMETRIE DE FILETAGE HYBRIDE POUR RACCORD FILETE**
[72] GARCHA, AMRIK SINGH, GB
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2022-01-26
[86] 2020-07-31 (PCT/EP2020/025353)
[87] (WO2021/018415)
[30] US (62/881,742) 2019-08-01

[21] **3,145,870**
[13] A1

[51] **Int.Cl. A61K 38/08 (2019.01) C07K 7/06 (2006.01)**
[25] EN
[54] **PEPTIDES FOR TREATING NON-EXUDATIVE MACULAR DEGENERATION AND OTHER DISORDERS OF THE EYE**
[54] **PEPTIDES POUR LE TRAITEMENT DE LA DEGENERESCENCE MACULAIRE NON-EXSUDATIVE ET D'AUTRES TROUBLES DE L'ŒIL**
[72] KARAGEOZIAN, HAMPAR L., US
[72] PARK, JOHN Y., US
[72] KARAGEOZIAN, VICKEN H., US
[71] ALLEGRO PHARMACEUTICALS, LLC, US
[85] 2022-01-26
[86] 2020-07-24 (PCT/US2020/043589)
[87] (WO2021/021668)
[30] US (62/879,281) 2019-07-26

[21] **3,145,871**
[13] A1

[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/46 (2006.01)**
[25] EN
[54] **AUTOMOTIVE COLOR MATCHING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE CONCORDANCE DES COULEURS D'AUTOMOBILE**
[72] GOEDHART, PAUL, NL
[72] DE HAAS, KLAAS, NL
[71] THE SHERWIN-WILLIAMS COMPANY, US
[85] 2022-01-26
[86] 2020-07-27 (PCT/US2020/043673)
[87] (WO2021/025884)
[30] US (16/529,899) 2019-08-02

[21] **3,145,875**
[13] A1

[51] **Int.Cl. G16B 40/30 (2019.01) G16B 15/00 (2019.01)**
[25] EN
[54] **MACHINE LEARNING GUIDED POLYPEPTIDE DESIGN**
[54] **CONCEPTION DE POLYPEPTIDES GUIDEE PAR APPRENTISSAGE AUTOMATIQUE**
[72] FEALA, JACOB D., US
[72] BEAM, ANDREW LANE, US
[72] GIBSON, MOLLY KRISANN, US
[72] CABRAL, BERNARD JOSEPH, US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2022-01-26
[86] 2020-07-31 (PCT/US2020/044646)
[87] (WO2021/026037)
[30] US (62/882,150) 2019-08-02
[30] US (62/882,159) 2019-08-02

[21] **3,145,880**
[13] A1

[51] **Int.Cl. H04W 4/70 (2018.01) H04L 12/28 (2006.01)**
[25] EN
[54] **PROVISIONING MULTIPLE CLOUD-BASED SERVICES TO CONTROL DEVICES**
[54] **APPROVISIONNEMENT DE DISPOSITIFS DE COMMANDE AVEC DES SERVICES BASES DANS PLUSIEURS NUAGES**
[72] BANERJEE, AGNIVA, US
[72] OSTER, CHRISTOPHER JON, US
[72] NILL, JOHN, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2022-01-26
[86] 2020-07-24 (PCT/US2020/043516)
[87] (WO2021/021635)
[30] US (62/879,166) 2019-07-26

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[21] **3,145,885**
[13] A1

[51] **Int.Cl. A61P 25/28 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-MS4A4A ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-MS4A4A ET LEURS PROCEDES D'UTILISATION**
[72] SUN, JEONGHOON, US
[72] HO, WEI-HSIEN, US
[72] ALHAWAGRI, MUHAMMAD A., US
[72] KONG, PHILIP LING, US
[72] RHINN, HERVE, US
[72] LONG, HUA, US
[72] SRINIVASAN, KARPAGAM, US
[72] MITRA, ANANYA, US
[72] BERMINGHAM, DANIEL P., US
[72] HEGER, KLAUS-DIETER, US
[72] SALAZAR, SANTIAGO VIVEROS, US
[72] CIGNARELLA, FRANCESCA, US
[72] TASSI, ILARIA, US
[72] SCHWABE, TINA, US
[72] YEE, ANGIE GRACE, US
[72] ROSENTHAL, ARNON, US
[71] ALECTOR LLC, US
[85] 2022-01-26
[86] 2020-07-30 (PCT/US2020/044335)
[87] (WO2021/022083)
[30] US (62/881,187) 2019-07-31
[30] US (62/892,467) 2019-08-27
[30] US (62/947,449) 2019-12-12
[30] US (62/960,606) 2020-01-13
[30] US (63/057,142) 2020-07-27

[21] **3,145,888**
[13] A1

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 47/58 (2017.01) A61K 45/08 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **OPHTHALMIC FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS OPHTALMIQUES ET LEURS UTILISATIONS**
[72] KAVADARLI, ISILAY, TR
[72] GUR, CANAN SEVIMLI, TR
[72] SOLMAZ, ISKENDER ALKIN, TR
[72] TURKMEN, MURAT KUBILAY, CA
[71] KAVADARLI, ISILAY, TR
[71] GUR, CANAN SEVIMLI, TR
[71] SOLMAZ, ISKENDER ALKIN, TR
[71] TURKMEN, MURAT KUBILAY, CA
[85] 2022-01-26
[86] 2019-07-18 (PCT/US2019/042368)
[87] (WO2020/028055)
[30] TR (201811088) 2018-07-31

[21] **3,145,892**
[13] A1

[51] **Int.Cl. C07K 14/405 (2006.01) C12N 1/12 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **RUBISCO-BINDING PROTEIN MOTIFS AND USES THEREOF**
[54] **MOTIFS PROTEIQUES DE LIAISON A RUBISCO ET LEURS UTILISATIONS**
[72] JONIKAS, MARTIN C., US
[72] MEYER, MORITZ, US
[72] HE, SHAN, US
[72] ITAKURA, ALAN, US
[72] CHEN WONG, VIVIAN, US
[72] MACKINDER, LUKE COLIN MARTIN, US
[72] YU, ZHIHENG, US
[72] MATTHIES, DOREEN, US
[72] CHOU, HUI-TING, US
[71] THE TRUSTEES OF PRINCETON UNIVERSITY, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] UNIVERSITY OF YORK, GB
[71] HOWARD HUGHES MEDICAL INSTITUTE, US
[85] 2022-01-26
[86] 2020-07-30 (PCT/US2020/044326)
[87] (WO2021/025962)
[30] US (62/882,306) 2019-08-02

[21] **3,145,895**
[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01) F17C 6/00 (2006.01) F25B 1/053 (2006.01) F25B 1/10 (2006.01) F25B 9/06 (2006.01) F25B 11/04 (2006.01) F25J 1/02 (2006.01)**
[25] FR
[54] **PROCEDE, DISPOSITIF ET INSTALLATION DE REFRIGERATION ET/OU DE LIQUEFACTION**
[54] **REFRIGERATION AND/OR LIQUEFACTION METHOD, DEVICE AND SYSTEM**
[72] DURAND, FABIEN, FR
[72] GUILLET, DAMIEN, FR
[72] NICOLAS, REMI, FR
[72] GONDRAND, CECILE, FR
[72] BERNHARDT, JEAN-MARC, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2022-01-26
[86] 2020-06-23 (PCT/EP2020/067417)
[87] (WO2021/023428)
[30] FR (FR1908945) 2019-08-05

[21] **3,145,897**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR ANTI-CD73 ANTIBODIES AND VARIANTS**
[54] **PROCEDE ET COMPOSITION POUR ANTICORPS ANTI-CD73 ET VARIANTS**
[72] JIANG, WEI-DONG, CN
[72] CHEN, I-YIN, CN
[72] TSENG, CHI-LING, CN
[71] SHANGHAI HENLIUS BIOTECH, INC., CN
[71] SHANGHAI HENLIUS BIOPHARMACEUTICAL CO., LTD., CN
[71] SHANGHAI HENLIUS BIOLOGICS CO., LTD., CN
[85] 2022-01-26
[86] 2020-07-17 (PCT/CN2020/102678)
[87] (WO2021/017892)
[30] CN (201910683287.5) 2019-07-26

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[21] **3,145,902**
[13] A1

[51] **Int.Cl. A01G 23/00 (2006.01)**
[25] EN
[54] **COPPICE-WITH-STANDARD, PROCESS FOR ESTABLISHING THE COPPICE-WITH-STANDARD, AND PROCESS FOR CONVERTING THE COPPICE-WITH-STANDARD INTO A COMMERCIAL-PERMANENT-FOREST**
[54] **TAILLIS SOUS FUTAIE, PROCEDE POUR LA CREATION DE CELUI-CI ET PROCEDE POUR LE TRANSFERT DE CELUI-CI DANS UNE FORET PERMANENTE ECONOMIQUEMENT**
[72] NURNBERGER, MICHAEL, DE
[71] NURNBERGER, MICHAEL, DE
[85] 2022-01-26
[86] 2020-07-30 (PCT/EP2020/071494)
[87] (WO2021/019010)
[30] DE (10 2019 120 745.2) 2019-07-31

[21] **3,145,905**
[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01) F25B 1/053 (2006.01) F25B 1/10 (2006.01) F25B 9/06 (2006.01) F25B 11/04 (2006.01) F25J 1/02 (2006.01)**
[25] FR
[54] **PROCEDE ET INSTALLATION DE REFROIDISSEMENT ET/OU DE LIQUEFACTION**
[54] **COOLING AND/OR LIQUEFYING METHOD AND SYSTEM**
[72] DURAND, FABIEN, FR
[72] NICOLAS, REMI, FR
[72] GONDRAND, CECILE, FR
[72] BERNHARDT, JEAN-MARC, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2022-01-26
[86] 2020-07-08 (PCT/EP2020/069182)
[87] (WO2021/023457)
[30] FR (FR1908950) 2019-08-05

[21] **3,145,907**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) A61P 35/00 (2006.01) C12N 7/04 (2006.01) C12N 15/12 (2006.01) C12N 15/39 (2006.01) C12N 15/863 (2006.01)**
[25] EN
[54] **ONCOLYTIC VACCINIA VIRUS**
[54] **VIRUS DE LA VACCINE ONCOLYTIQUE**
[72] MURAKAMI, TOSHIO, JP
[72] OKITA, GO, JP
[72] KAMIZURU, YUI, JP
[71] KM BIOLOGICS CO., LTD., JP
[85] 2022-01-26
[86] 2020-08-07 (PCT/JP2020/030448)
[87] (WO2021/029385)
[30] JP (2019-147885) 2019-08-09

[21] **3,145,909**
[13] A1

[51] **Int.Cl. C07K 16/24 (2006.01) A61P 1/04 (2006.01)**
[25] EN
[54] **ANTI-HUMAN P40 PROTEIN DOMAIN ANTIBODY AND USE THEREOF**
[54] **ANTICORPS HUMANISE DIRIGE CONTRE LE DOMAINE DE PROTEINE P40 ET SON UTILISATION**
[72] XIA, YU, CN
[72] WANG, ZHONGMIN MAXWELL, CN
[72] ZHANG, PENG, CN
[72] LI, BAIYONG, CN
[71] AKESO BIOPHARMA, INC., CN
[85] 2022-01-26
[86] 2020-07-28 (PCT/CN2020/105039)
[87] (WO2021/018114)
[30] CN (201910706137.1) 2019-07-30
[30] CN (201911040745.X) 2019-10-29
[30] CN (201911171754.2) 2019-11-25

[21] **3,145,912**
[13] A1

[51] **Int.Cl. C12P 19/34 (2006.01)**
[25] EN
[54] **INCREASING LONG-SEQUENCE YIELDS IN TEMPLATE-FREE ENZYMATIC SYNTHESIS OF POLYNUCLEOTIDES.**
[54] **AUGMENTATION DES RENDEMENTS DE SEQUENCE LONGUE DANS LA SYNTHESE ENZYMATIQUE SANS MATRICE DE POLYNUCLEOTIDES**
[72] HORGAN, ADRIAN, FR
[72] SARAC, IVO, FR
[72] NIYOMCHON, SUPAPORN, FR
[72] GODRON, XAVIER, FR
[71] DNA SCRIPT, FR
[85] 2022-01-26
[86] 2020-07-28 (PCT/EP2020/071316)
[87] (WO2021/018921)
[30] EP (19189639.8) 2019-08-01
[30] EP (19200740.9) 2019-10-01

[21] **3,145,913**
[13] A1

[51] **Int.Cl. C07D 295/088 (2006.01) A61K 47/34 (2017.01) A61P 37/02 (2006.01) C07C 219/16 (2006.01) C07C 229/08 (2006.01) C07C 271/22 (2006.01) C07D 231/56 (2006.01) C07D 239/42 (2006.01) C07D 241/24 (2006.01) C07D 241/40 (2006.01) C07D 513/04 (2006.01) C07F 5/02 (2006.01)**
[25] EN
[54] **NANOMATERIALS CONTAINING CONSTRAINED LIPIDS AND USES THEREOF**
[54] **NANOMATERIAUX CONTENANT DES LIPIDES CONTRAINTS ET UTILISATIONS CORRESPONDANTES**
[72] DAHLMAN, JAMES EVERETT, US
[72] SAGO, CORY DANE, US
[72] GAN, ZUBAO, US
[71] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2022-01-26
[86] 2020-07-24 (PCT/US2020/043512)
[87] (WO2021/021634)
[30] US (62/879,731) 2019-07-29

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[21] **3,145,914**
[13] A1

[51] **Int.Cl. F25B 1/053 (2006.01) F25B 1/10 (2006.01) F25B 9/06 (2006.01) F25B 11/04 (2006.01) F25B 31/02 (2006.01) F25J 1/02 (2006.01)**

[25] EN

[54] **REFRIGERATION DEVICE AND SYSTEM**

[54] **DISPOSITIF ET INSTALLATION DE REFRIGERATION**

[72] DURAND, FABIEN, FR

[72] DELAUTRE, GUILLAUME, FR

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

[85] 2022-01-26

[86] 2020-07-08 (PCT/EP2020/069178)

[87] (WO2021/023456)

[30] FR (1908947) 2019-08-05

[21] **3,145,916**
[13] A1

[51] **Int.Cl. H01R 13/72 (2006.01)**

[25] FR

[54] **DEVICE FOR AN ELECTRICAL PLUG PROVIDED WITH A WINDING MEANS**

[54] **DISPOSITIF VISANT UNE PRISE ELECTRIQUE POURVUE D'UN MOYEN D'ENROULEMENT**

[72] KANDIN, PATRICE, FR

[71] KANDIN, PATRICE, FR

[85] 2022-01-26

[86] 2020-08-04 (PCT/FR2020/000217)

[87] (WO2021/019135)

[30] FR (1908862) 2019-08-01

[21] **3,145,918**
[13] A1

[51] **Int.Cl. G06N 3/08 (2006.01) G06F 16/29 (2019.01)**

[25] EN

[54] **ADDRESS INFORMATION PARSING METHOD AND APPARATUS, SYSTEM AND DATA ACQUISITION METHOD**

[54] **PROCEDE ET APPAREIL D'ANALYSE D'INFORMATIONS D'ADRESSE, SYSTEME ET PROCEDE D'ACQUISITION DE DONNEES**

[72] LI, NANYI, CN

[72] XU, LIANG, CN

[71] 10353744 CANADA LTD., CA

[85] 2022-01-26

[86] 2020-06-19 (PCT/CN2020/096989)

[87] (WO2021/017679)

[30] CN (201910684395.4) 2019-07-26

[21] **3,145,919**
[13] A1

[51] **Int.Cl. A61K 35/747 (2015.01) A61K 38/16 (2006.01) A61P 1/00 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **PROBIOTIC DELIVERY OF GUIDED ANTIMICROBIAL PEPTIDES**

[54] **ADMINISTRATION PROBIOTIQUE DE PEPTIDES ANTIMICROBIENS GUIDES**

[72] KEARNEY, CHRISTOPHER MICHEL, US

[72] CHOUDHURY, ANKAN, US

[72] ORTIZ, PATRICK, US

[71] BAYLOR UNIVERSITY, US

[85] 2022-01-26

[86] 2020-08-19 (PCT/US2020/046896)

[87] (WO2021/034879)

[30] US (62/888,757) 2019-08-19

[21] **3,145,920**
[13] A1

[51] **Int.Cl. G01N 33/566 (2006.01) C07K 14/00 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G01N 33/542 (2006.01)**

[25] EN

[54] **BIOSENSORS FOR DETECTING ARRESTIN SIGNALING**

[54] **BIOCAPTEURS POUR DETECTER UNE SIGNALISATION DE L'ARRESTINE**

[72] HUGHES, THOMAS, US

[72] TEWSON, PAUL, US

[71] MONTANA MOLECULAR, LLC, US

[85] 2022-01-26

[86] 2019-07-30 (PCT/US2019/044165)

[87] (WO2020/028381)

[30] US (62/712,176) 2018-07-30

[21] **3,145,922**
[13] A1

[51] **Int.Cl. E21B 47/00 (2012.01) F16L 55/26 (2006.01) G01L 19/08 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM TO DETERMINE VARIATIONS IN A FLUIDIC CHANNEL**

[54] **PROCEDE ET SYSTEME DE DETERMINATION DE VARIATIONS DANS UN CANAL FLUIDIQUE**

[72] OGUNDARE, OLUWATOSIN, US

[72] OLMI, CLAUDIO, US

[72] BENNETT, DAVID B., US

[72] BICKLEY, TERRY DON, US

[72] STARK, DANIEL JOSHUA, US

[72] NICHOLSON, JEREMY COSS, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-01-26

[86] 2019-12-13 (PCT/US2019/066164)

[87] (WO2021/118586)

[30] US (16/713,118) 2019-12-13

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[21] **3,145,923**
[13] A1

[51] **Int.Cl. A61K 31/565 (2006.01) A61K 47/12 (2006.01) A61K 47/24 (2006.01)**

[25] EN

[54] **GANAXOLONE FOR USE IN TREATMENT OF STATUS EPILEPTICUS**

[54] **GANAXOLONE DESTINEE A ETRE UTILISEE DANS LE TRAITEMENT DE L'ETAT DE MAL EPILEPTIQUE**

[72] CZEKAI, DAVID, US
[72] GASIOR, MACIEJ, US
[72] MASUOKA, LORIANNE, US
[72] TSAI, JULIA, US
[72] HULIHAN, JOSEPH, US
[72] AIMETTI, ALEX, US
[71] MARINUS PHARMACEUTICALS, INC., US
[85] 2022-01-26
[86] 2020-08-04 (PCT/US2020/044843)
[87] (WO2021/026124)
[30] US (62/882,648) 2019-08-05

[21] **3,145,924**
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01)**

[25] EN

[54] **EXTRACELLULAR VESICLE LINKED TO MOLECULES AND USES THEREOF**

[54] **VESICULES EXTRACELLULAIRES LIEES A DES MOLECULES ET LEURS UTILISATIONS**

[72] ZHANG, YI, US
[72] NOYES, AARON R., US
[72] BOUTIN, ADAM T., US
[71] CODIAK BIOSCIENCES, INC., US
[85] 2022-01-26
[86] 2020-08-14 (PCT/US2020/046560)
[87] (WO2021/030777)
[30] US (62/886,941) 2019-08-14
[30] US (62/895,398) 2019-09-03

[21] **3,145,940**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTI-CD39 ANTIBODY COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS D'ANTICORPS ANTI-CD39 ET PROCEDES ASSOCIES**

[72] CHAPPEL, SCOTT, US
[72] LAKE, ANDREW, US
[72] WARREN, MICHAEL, US
[72] DULAK, AUSTIN, US
[72] DEVEREAUX, ERIK, US
[72] HOLLAND, PAMELA M., US
[72] ZAIDI, TAUQEER, US
[72] RAUSCH, MATTHEW, US
[72] PRINZ, BIANKA, US
[72] NIELSON, NELS P., US
[72] DAS, SONIA, US
[72] O'NEILL, ALISON M., US
[71] SURFACE ONCOLOGY, INC., US
[85] 2022-01-26
[86] 2020-09-15 (PCT/US2020/050829)
[87] (WO2021/055329)

[30] US (62/901,153) 2019-09-16
[30] US (62/902,285) 2019-09-18
[30] US (62/932,249) 2019-11-07
[30] US (62/935,969) 2019-11-15
[30] US (62/975,519) 2020-02-12
[30] US (63/003,191) 2020-03-31
[30] US (63/075,567) 2020-09-08

[21] **3,145,945**
[13] A1

[51] **Int.Cl. E21B 19/16 (2006.01) E21B 47/007 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETECTING STEPS IN TUBULAR CONNECTION PROCESSES**

[54] **SYSTEMES ET PROCEDES POUR DETECTER DES ETAPES DANS DES PROCESSUS DE JONCTION TUBULAIRE**

[72] TAUBNER, SPENCER P., CA
[71] NOETIC TECHNOLOGIES INC., CA
[85] 2022-01-26
[86] 2020-08-13 (PCT/CA2020/000101)
[87] (WO2021/026632)
[30] US (62/886,026) 2019-08-13

[21] **3,145,951**
[13] A1

[51] **Int.Cl. B07C 5/36 (2006.01) B07C 3/08 (2006.01) B07C 5/34 (2006.01) B65G 43/08 (2006.01) B65G 43/10 (2006.01) B65G 47/71 (2006.01)**

[25] EN

[54] **MODULAR PACKAGE SORTING SYSTEM**

[54] **SYSTEME DE TRI D'EMBALLAGE MODULAIRE**

[72] CUTLIP, ROBERT, US
[72] BANKARD, MARK, US
[72] KOOGLE, DWIGHT, US
[72] YANNUZZI, CRYSTAL, US
[72] FONTAINE, MATTHEW, US
[72] LUNDAHL, ROBERT, US
[71] ADVANCED TECHNOLOGY & RESEARCH CORP., US
[85] 2022-01-26
[86] 2020-08-03 (PCT/US2020/044730)
[87] (WO2021/030090)
[30] US (16/537,503) 2019-08-09

[21] **3,145,959**
[13] A1

[51] **Int.Cl. F02B 33/22 (2006.01) F02B 33/06 (2006.01) F02B 41/06 (2006.01)**

[25] EN

[54] **THROTTLE REPLACING DEVICE**

[54] **DISPOSITIF DE REMPLACEMENT DU PAPILLON DES GAZ**

[72] KRISTANI, FILIP, US
[71] KRISTANI, FILIP, US
[85] 2022-01-26
[86] 2020-09-28 (PCT/US2020/053160)
[87] (WO2021/067201)
[30] US (16/589,772) 2019-10-01

[21] **3,145,991**
[13] A1

[51] **Int.Cl. H04N 1/00 (2006.01)**

[25] EN

[54] **METHOD AND STRUCTURE FOR VERIFYING DATA**

[54] **PROCEDE ET STRUCTURE DE VERIFICATION DE DONNEES**

[72] ZHOU, XINGCHANG, CN
[71] ZHOU, XINGCHANG, CN
[85] 2022-01-27
[86] 2020-07-28 (PCT/CN2020/105122)
[87] (WO2021/018129)
[30] CN (201910686082.2) 2019-07-28
[30] CN (PCT/CN2019/098941) 2019-08-01

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[21] **3,145,999**
[13] A1

[51] **Int.Cl. A61M 5/178 (2006.01) A61M 5/00 (2006.01) B65B 69/00 (2006.01) B65D 75/32 (2006.01) B65D 75/36 (2006.01)**

[25] EN

[54] **MEDICAL DEVICE PACKAGING AND RELATED METHODS**

[54] **EMBALLAGE DE DISPOSITIF MEDICAL ET PROCEDES ASSOCIEES**

[72] COOK, ANDREW, US

[72] BRADFORD, VICTOR, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2022-01-27

[86] 2020-07-29 (PCT/US2020/044058)

[87] (WO2021/021925)

[30] US (62/879,906) 2019-07-29

[21] **3,146,001**
[13] A1

[51] **Int.Cl. A01N 65/08 (2009.01) A01N 65/10 (2009.01) A01N 65/44 (2009.01) A01P 21/00 (2006.01) C05G 1/00 (2006.01)**

[25] EN

[54] **COMPOSITION TO ENHANCE NUTRIENT CONTENT IN PLANTS**

[54] **COMPOSITION POUR AMELIORER LA TENEUR EN NUTRIMENTS DE PLANTES**

[72] CHINTHALA, VENKAT REDDY, IN

[71] CHINTHALA, VENKAT REDDY, IN

[85] 2022-01-27

[86] 2020-08-01 (PCT/IB2020/057299)

[87] (WO2021/024143)

[30] IN (201941031393) 2019-08-02

[21] **3,146,004**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61K 35/12 (2015.01) A61K 35/32 (2015.01) A61L 27/38 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF USING MULTIPOTENT STEM CELLS TO REDUCE DISEASE AND ENHANCE WELLNESS**

[54] **COMPOSITIONS ET PROCEDES D'UTILISATION DE CELLULES SOUCHES MULTIPOTENTES POUR SOULAGER UNE MALADIE ET AMELIORER LE BIEN-ETRE**

[72] WADE, JILL, US

[72] CALILUNG, XERXEZ, US

[71] RELEVANCE TOTAL HEALTH, US

[71] WADE, JILL, US

[71] CALILUNG, XERXEZ, US

[85] 2022-01-27

[86] 2020-07-29 (PCT/US2020/044050)

[87] (WO2021/021919)

[30] US (62/879,943) 2019-07-29

[21] **3,146,031**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 31/7088 (2006.01) A61P 37/04 (2006.01) C07K 7/00 (2006.01)**

[25] EN

[54] **IMMUNITY INDUCER AND PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING AGING-RELATED DISEASES**

[54] **INDUCTEUR IMMUNITAIRE ET COMPOSITION PHARMACEUTIQUE POUR LA PREVENTION OU LE TRAITEMENT DE MALADIES LIEES AU VIEILLISSEMENT**

[72] MINAMINO, TOHRU, JP

[72] NAKAGAMI, HIRONORI, JP

[71] JUNTENDO EDUCATIONAL FOUNDATION, JP

[85] 2022-01-27

[86] 2020-07-07 (PCT/JP2020/026560)

[87] (WO2021/020047)

[30] JP (2019-139031) 2019-07-29

[21] **3,146,047**
[13] A1

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

[25] EN

[54] **REMOVABLE CAP ACTUATION FOR AN INTRAOCULAR LENS CARTRIDGE**

[54] **ACTIONNEMENT DE CAPUCHON AMOVIBLE POUR CARTOUCHE DE LENTILLE INTRAOCULAIRE**

[72] SINGH, SUDARSHAN B., US

[72] TABER, TODD, US

[72] WU, YINGHUI, US

[72] WENSRICH, DOUGLAS BRENT, US

[72] JANG, SAM, US

[72] PINKHAM, CHRIS, US

[71] ALCON INC., CH

[85] 2022-01-27

[86] 2020-08-21 (PCT/IB2020/057871)

[87] (WO2021/038409)

[30] US (62/890,859) 2019-08-23

[30] US (63/048,333) 2020-07-06

[21] **3,146,048**
[13] A1

[51] **Int.Cl. A61K 31/7028 (2006.01) A61K 31/7052 (2006.01) A61K 31/7056 (2006.01) A61K 35/28 (2015.01) A61K 38/19 (2006.01) A61P 7/06 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/00 (2006.01) A61P 37/06 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **USE OF E-SELECTIN ANTAGONISTS TO ENHANCE THE SURVIVAL OF RECONSTITUTED, BONE MARROW-DEPLETED HOSTS**

[54] **UTILISATION D'ANTAGONISTES D'E-SELECTINE POUR AMELIORER LA SURVIE D'HOTES DE MOELLE OSSEUSE APPAUVRIE RECONSTITUEE**

[72] MAGNANI, JOHN L., US

[72] FOGLER, WILLIAM E., US

[71] GLYCOMIMETICS, INC., US

[85] 2022-01-27

[86] 2020-07-31 (PCT/US2020/044449)

[87] (WO2021/022132)

[30] US (62/881,307) 2019-07-31

[30] US (62/910,738) 2019-10-04

[30] US (63/032,680) 2020-05-31

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[21] **3,146,052**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61K 31/506 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **MEK INHIBITOR FOR TREATMENT OF STROKE**
[54] **INHIBITEUR DE MEK POUR LE TRAITEMENT D'UN ACCIDENT VASCULAIRE CEREBRAL**
[72] EDVINSSON, LARS, SE
[71] EDVINCE AB, SE
[85] 2022-01-27
[86] 2020-07-28 (PCT/EP2020/071209)
[87] (WO2021/018866)
[30] EP (19189069.8) 2019-07-30

[21] **3,146,056**
[13] A1

[51] **Int.Cl. E04G 21/18 (2006.01) B25H 7/04 (2006.01) B25J 5/00 (2006.01) E04B 1/35 (2006.01) G01C 15/02 (2006.01)**
[25] EN
[54] **REAL SIZE TOPOGRAPHY MARKING SYSTEM**
[54] **SYSTEME DE MARQUAGE DE TOPOGRAPHIE A TAILLE REELLE**
[72] AGIE DE SELSATEN, VINCENT, BE
[72] AGIE DE SELSATEN, OLIVIER, BE
[71] VIAGE SPRL, BE
[85] 2022-01-27
[86] 2019-07-12 (PCT/IB2019/055982)
[87] (WO2020/044138)
[30] BE (2018/0094) 2018-08-29

[21] **3,146,062**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01)**
[25] EN
[54] **PACKAGING-ASSISTED ACTUATION FOR AN INTRAOCULAR LENS CARTRIDGE**
[54] **ACTIONNEMENT ASSISTE PAR EMBALLAGE POUR CARTOUCHE DE LENTILLE INTRAOCULAIRE**
[72] SINGH, SUDARSHAN B., US
[72] TABER, TODD, US
[72] WU, YINGHUI, US
[72] WENSRIKH, DOUGLAS BRENT, US
[72] HANEY, TREVOR, US
[72] CHECK, ANDREW, US
[72] BENACQUISTO, JUSTIN, US
[72] MARIETTA, JOE, US
[72] PENROD, JONATHAN, US
[72] LAROY, TIM, US
[72] PORTER, BRYCE, US
[71] ALCON INC., CH
[85] 2022-01-27
[86] 2020-08-21 (PCT/IB2020/057873)
[87] (WO2021/038411)
[30] US (62/890,859) 2019-08-23
[30] US (63/040,586) 2020-06-18

[21] **3,146,067**
[13] A1

[51] **Int.Cl. G06T 19/20 (2011.01) H04L 9/20 (2006.01)**
[25] EN
[54] **POINT CLOUD SCRAMBLING**
[54] **BROUILLAGE DE NUAGE DE POINTS**
[72] DIEHL, ERIC, US
[71] SONY GROUP CORPORATION, JP
[71] SONY PICTURES ENTERTAINMENT, INC., US
[85] 2022-01-27
[86] 2020-11-10 (PCT/US2020/059878)
[87] (WO2021/096881)
[30] US (16/684,956) 2019-11-15

[21] **3,146,070**
[13] A1

[51] **Int.Cl. H04N 21/433 (2011.01) H04N 21/4363 (2011.01) H04N 21/438 (2011.01) H04N 21/439 (2011.01) H04N 21/442 (2011.01)**
[25] EN
[54] **METHODS AND APPARATUS TO CLASSIFY ALL OTHER TUNING DATA**
[54] **PROCEDES ET APPAREIL DE CLASSEMENT DE DONNEES AOT**
[72] CONKLIN, CHARLES C., US
[72] LOMBARDI, MICHAEL, US
[71] THE NIELSEN COMPANY (US), LLC, US
[85] 2022-01-27
[86] 2020-07-29 (PCT/US2020/044103)
[87] (WO2021/021954)
[30] US (16/528,156) 2019-07-31

[21] **3,146,071**
[13] A1

[51] **Int.Cl. A23L 2/00 (2006.01) A61K 31/202 (2006.01) A61K 36/324 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **PREPARATION COMPRISING OMEGA-3 FATTY ACID SALTS AND EXTRACTS OF GUM RESINS FROM BOSWELLIA SPECIES**
[54] **PREPARATION COMPRENANT DES SELS D'ACIDES GRAS OMEGA-3 ET DES EXTRAITS DE RESINES DE GOMME A PARTIR D'ESPECES DE BOSWELLIA**
[72] GOMEZ, MARIO, DE
[72] SPECKMANN, BODO, DE
[72] SCHWARM, MICHAEL, DE
[72] WERZ, OLIVER, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-01-27
[86] 2020-07-30 (PCT/EP2020/071556)
[87] (WO2021/019037)
[30] EP (19189564.8) 2019-08-01

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[21] **3,146,072**
[13] A1

[51] **Int.Cl. A61L 27/14 (2006.01) A61L 27/16 (2006.01) A61L 27/18 (2006.01) A61L 27/20 (2006.01) A61L 27/22 (2006.01) A61L 27/34 (2006.01) A61L 27/38 (2006.01) A61L 27/50 (2006.01) A61L 27/52 (2006.01) A61L 27/56 (2006.01)**

[25] EN
[54] **GINGIVAL GRAFT**
[54] **GREFFE GINGIVALE**
[72] LITVIN, GILAD, IL
[72] ALEY-RAZ, ALMOG, IL
[72] ASSOULINE, PATRICIA, IL
[71] CORNEAT VISION LTD., IL
[85] 2022-01-27
[86] 2020-08-12 (PCT/IL2020/050879)
[87] (WO2021/028912)
[30] US (62/885,345) 2019-08-12
[30] US (63/003,319) 2020-04-01

[21] **3,146,074**
[13] A1

[51] **Int.Cl. B01D 61/02 (2006.01)**

[25] EN
[54] **SILICA SCALE INHIBITORS**
[54] **INHIBITEURS DE TARTRE DE SILICE**
[72] TODD, MICHAEL A., US
[71] SOLENIS TECHNOLOGIES CAYMAN, L.P., KY
[85] 2022-01-27
[86] 2020-07-29 (PCT/US2020/043962)
[87] (WO2021/021860)
[30] US (62/880,172) 2019-07-30
[30] US (16/940,498) 2020-07-28

[21] **3,146,079**
[13] A1

[51] **Int.Cl. C11B 13/00 (2006.01) C07J 9/00 (2006.01) C11C 3/00 (2006.01)**

[25] EN
[54] **PROCESS FOR THE PRODUCTION AND PURIFICATION OF STEROLS**
[54] **PROCEDE DE PRODUCTION ET DE PURIFICATION DE STEROLS**
[72] EYCHENNE, VALERIE, FR
[72] BASSO, YANNICK, FR
[72] VALLEJO, OLIVIER, FR
[72] SCHWARZER, JOERG, DE
[71] BASF SE, DE
[71] BASF HEALTH AND CARE PRODUCTS FRANCE S.A.S., FR
[85] 2022-01-27
[86] 2020-09-24 (PCT/EP2020/076719)
[87] (WO2021/058646)
[30] EP (19200121.2) 2019-09-27

[21] **3,146,081**
[13] A1

[51] **Int.Cl. C12Q 1/6825 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6876 (2018.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS RELATED TO TARGET ANALYSIS**
[54] **METHODES ET COMPOSITIONS ASSOCIEES A L'ANALYSE DE CIBLES**
[72] NGUYEN, HUY QUOC, US
[72] CHATTORAJ, SHYAMTANU, US
[72] CHURCH, GEORGE M., US
[72] WU, CHAO-TING, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2022-01-27
[86] 2020-07-30 (PCT/US2020/044151)
[87] (WO2021/021982)
[30] US (62/880,216) 2019-07-30

[21] **3,146,084**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 9/08 (2006.01) A61K 9/19 (2006.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61P 35/00 (2006.01)**

[25] EN
[54] **FORMULATIONS OF BENZAZEPINE CONJUGATES AND USES THEREOF**
[54] **FORMULATIONS DE CONJUGUES DE BENZAZEPINE ET LEURS UTILISATIONS**
[72] SMITH, SEAN WESLEY, US
[72] NATARAJAN, SATEESH, US
[71] SILVERBACK THERAPEUTICS, INC., US
[85] 2022-01-27
[86] 2020-08-14 (PCT/US2020/046319)
[87] (WO2021/030665)
[30] US (62/887,335) 2019-08-15

[21] **3,146,088**
[13] A1

[51] **Int.Cl. A01K 61/10 (2017.01) A01K 61/60 (2017.01)**

[25] EN
[54] **FISH PEN FOR OPEN SEA AQUACULTURE**
[54] **ENCLOS A POISSONS POUR L'AQUACULTURE EN HAUTE MER**
[72] PENNER, MARK, US
[72] KELLY, DAVID P., US
[72] WOSKOV, PETER NICHOLAS, US
[72] CORDERO, RAFAEL, US
[72] GRASS, WYATT, US
[72] FITZGERALD, JAMES, US
[72] VANGSNES, TODD, US
[72] ZIMMER, HARRISON PRESLEY, US
[72] REIFSNYDER, JEFFREY, US
[72] DARRES, MATTHEW, US
[71] INNOVASEA SYSTEMS, INC., US
[85] 2022-01-27
[86] 2020-07-29 (PCT/US2020/044063)
[87] (WO2021/021928)
[30] US (62/880,263) 2019-07-30

[21] **3,146,092**
[13] A1

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

[25] EN
[54] **THERAPEUTIC ANTIBODIES AGAINST OSTEOPOINTIN**
[54] **ANTICORPS THERAPEUTIQUES DIRIGES CONTRE L'OSTEOPOINTINE**
[72] MYLES, TIMOTHY, US
[72] LEUNG, LAWRENCE L. K., US
[72] MORSER, MICHAEL J., US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US
[85] 2022-01-27
[86] 2020-08-07 (PCT/US2020/045466)
[87] (WO2021/030209)
[30] US (62/884,818) 2019-08-09

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[51] Int.Cl. A61F 2/44 (2006.01) A61F 2/02 (2006.01) A61F 2/28 (2006.01) A61F 2/30 (2006.01)	[51] Int.Cl. E04F 13/08 (2006.01) B29C 48/03 (2019.01) B29C 48/30 (2019.01) E04F 15/02 (2006.01) E04F 15/10 (2006.01)	[51] Int.Cl. A61L 2/10 (2006.01) A61L 9/20 (2006.01)
[25] EN	[25] EN	[25] EN
[54] TRANSFORAMINAL POSTERIOR ATRAUMATIC LUMBAR BIO-IMPLANT	[54] DECORATIVE PANEL AND METHOD OF PRODUCING SUCH A PANEL	[54] PHOTOCATALYTIC OXIDATION DEVICE FOR TREATMENT OF AIR
[54] BIO-IMPLANT LOMBAIRE ATRAUMATIQUE POSTERIEUR TRANSFORAMINAL	[54] PANNEAU DECORATIF ET PROCEDE DE FABRICATION D'UN TEL PANNEAU	[54] DISPOSITIF D'OXYDATION PHOTOCATALYTIQUE POUR LE TRAITEMENT DE L'AIR
[72] EVANS, MARK, US	[72] BOUCKE, EDDY ALBERIC, BE	[72] EIDE, ANDREW, US
[72] YOUNG, GORDON, US	[71] I4F LICENSING NV, BE	[71] AERUS, LLC, US
[72] LUNDQUIST, CHRIS, US	[85] 2022-01-27	[85] 2022-01-27
[72] MCCAULEY, SHANE, US	[86] 2020-07-28 (PCT/EP2020/071313)	[86] 2020-08-06 (PCT/US2020/045249)
[71] LIFENET HEALTH, US	[87] (WO2021/018918)	[87] US (62/883,410) 2019-08-06
[85] 2022-01-27	[30] NL (2023587) 2019-07-29	[30] US (63/006,270) 2020-04-07
[86] 2020-08-20 (PCT/US2020/047106)		[30] US (16/985,443) 2020-08-05
[87] (WO2021/035005)		
[30] US (62/889,755) 2019-08-21		
[21] 3,146,096 [13] A1	[21] 3,146,098 [13] A1	[21] 3,146,114 [13] A1
[51] Int.Cl. C05F 11/00 (2006.01) C05F 11/08 (2006.01) C12N 1/00 (2006.01)	[51] Int.Cl. A61K 31/4525 (2006.01) A61K 31/497 (2006.01) A61K 45/06 (2006.01) A61P 15/00 (2006.01)	[51] Int.Cl. A61B 5/15 (2006.01) A61B 5/153 (2006.01) A61B 5/154 (2006.01)
[25] EN	[25] EN	[25] EN
[54] MICROBE-BASED COMPOSITIONS FOR RESTORING SOIL HEALTH AND CONTROLLING PESTS	[54] SEROTONERGIC AGENT AND 5-HT1A-RECEPTOR ANTAGONIST	[54] DISPOSABLE BLOOD METERING DEVICE
[54] COMPOSITIONS A BASE DE MICROBES POUR RESTAURER LA SANTE DU SOL ET LUTTER CONTRE LES NUISIBLES	[54] AGENT SEROTONINERGIQUE ET ANTAGONISTE DU RECEPTEUR 5-HT1A	[54] DISPOSITIF DE MESURE DE SANG JETABLE
[72] FARMER, SEAN, US	[72] WALDINGER, MARCEL DAVID, NL	[72] FEIJEN, FRANCISCUS, NL
[72] ALIBEK, KEN, US	[72] OLIVIER, BEREND, NL	[72] BRUINSMA, JOHANNES ANNE, NL
[71] LOCUS AGRICULTURE IP COMPANY, LLC, US	[71] ATLAS PHARMACEUTICALS BV, BE	[72] SAMER, AHMED, NL
[85] 2022-01-27	[85] 2022-01-27	[72] RENKEMA, ROLAND, NL
[86] 2020-08-12 (PCT/US2020/045845)	[86] 2020-07-29 (PCT/EP2020/071410)	[72] ROBERTSON, DANIEL JAMES, NL
[87] (WO2021/030385)	[87] (WO2021/018967)	[71] BD Kiestra B.V., NL
[30] US (62/885,455) 2019-08-12	[30] NL (2023581) 2019-07-29	[85] 2022-01-27
[30] US (62/953,632) 2019-12-26		[86] 2020-08-05 (PCT/EP2020/072007)
		[87] (WO2021/023773)
		[30] US (62/883,294) 2019-08-06
[21] 3,146,104 [13] A1	[21] 3,146,104 [13] A1	[21] 3,146,115 [13] A1
[51] Int.Cl. E04G 25/06 (2006.01)	[51] Int.Cl. E04G 25/06 (2006.01)	[51] Int.Cl. A61K 9/00 (2006.01) A61K 47/69 (2017.01) A61K 9/127 (2006.01) A61K 31/7036 (2006.01) A61P 31/04 (2006.01)
[25] EN	[25] EN	[25] EN
[54] SHORING SUPPORT STRUCTURE	[54] SHORING SUPPORT STRUCTURE	[54] FILM FORMULATION COMPRISING CARRIERS
[54] STRUCTURE DE SUPPORT D'ETAYAGE	[54] STRUCTURE DE SUPPORT D'ETAYAGE	[54] FORMULATION DE FILM COMPRENANT DES PORTEUSES
[72] OWENS, AUSTIN, GB	[72] OWENS, AUSTIN, GB	[72] BOYER, SCOTT, SE
[71] GROVE DESIGN (PEMBRIDGE) LIMITED, GB	[71] GROVE DESIGN (PEMBRIDGE) LIMITED, GB	[72] HUBINETTE, FREDRIK, SE
[85] 2022-01-27	[85] 2022-01-27	[71] KLARIA PHARMA HOLDING AB, SE
[86] 2020-07-31 (PCT/EP2020/071708)	[86] 2020-07-31 (PCT/EP2020/071708)	[85] 2022-01-27
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[30] GB (1911337.2) 2019-08-08	[30] GB (1911337.2) 2019-08-08	[87] (WO2021/028578)
		[30] GB (1911715.9) 2019-08-15

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[21] 3,146,120 [13] A1	[21] 3,146,132 [13] A1	[21] 3,146,135 [13] A1
[25] EN [54] METHOD OF DISCRIMINATING LUNG CANCER PATIENTS [54] PROCEDE DE DISCRIMINATION DE PATIENTS ATTEINTS D'UN CANCER DU POUMON [72] BUX, RASHID, CA [71] BIOMARK CANCER SYSTEMS INC., CA [85] 2022-01-27 [86] 2020-07-29 (PCT/CA2020/051041) [87] (WO2021/016711) [30] US (62/880,062) 2019-07-29	[51] Int.Cl. A61M 25/01 (2006.01) A61B 17/11 (2006.01) A61B 17/34 (2006.01) [25] EN [54] METHODS AND DEVICES FOR ESTABLISHING A CONNECTION BETWEEN ADJACENT ANATOMICAL SPACES USING MAGNETS [54] PROCEDES ET DISPOSITIFS POUR ETABLIR UNE CONNEXION ENTRE DES ESPACES ANATOMIQUES ADJACENTS A L'AIDE D'AIMANTS [72] PASSMAN, JOSEPH, US [72] SIEGEL, ALEXANDER, US [72] RABITO, GLEN, US [72] ROWE, STANTON J., US [72] HOWARD, ELLIOT, US [72] TAFT, ROBERT C., US [72] SCHWARTZ, ROBERT S., US [71] NXT BIOMEDICAL, LLC, US [85] 2022-01-27 [86] 2020-07-30 (PCT/US2020/044347) [87] (WO2021/022090) [30] US (62/881,239) 2019-07-31 [30] US (62/906,001) 2019-09-25	[51] Int.Cl. C05G 3/90 (2020.01) C05G 3/80 (2020.01) C09K 15/30 (2006.01) [25] EN [54] IMPROVEMENTS IN AND RELATING TO NITRIFICATION INHIBITORS [54] AMELIORATIONS APPORTEES ET SE RAPPORTANT A DES INHIBITEURS DE NITRIFICATION [72] PODOLYAN, ANDRIY, NZ [72] RENNISON, DAVID, NZ [72] COOK, GREGORY, NZ [72] DI, HONG JIE, NZ [72] CAMERON, KEITH CRAIG, NZ [72] BRIMBLE, MARGARET ANNE, NZ [72] FERGUSON, SCOTT, NZ [72] RONIMUS, ROBERT STARR, NZ [72] CARBONE, VINCENZO, NZ [71] LINCOLN UNIVERSITY, NZ [85] 2022-01-27 [86] 2021-05-25 (PCT/NZ2021/050085) [87] (WO2021/242122) [30] NZ (764712) 2020-05-25 [30] NZ (764783) 2020-05-26 [30] NZ (764780) 2020-05-29 [30] NZ (765203) 2020-06-08 [30] NZ (765211) 2020-06-08 [30] NZ (765239) 2020-06-09 [30] NZ (771062) 2020-12-14 [30] NZ (774851) 2021-04-09 [30] NZ (774955) 2021-04-12
[21] 3,146,123 [13] A1	[21] 3,146,133 [13] A1	
[51] Int.Cl. C07K 16/14 (2006.01) A61K 47/60 (2017.01) A61P 31/10 (2006.01) C07K 14/40 (2006.01) C12N 15/10 (2006.01) [25] EN [54] ANTIBODIES TO CANDIDA AND USES THEREOF [54] ANTICORPS CONTRE CANDIDA ET LEURS UTILISATIONS [72] WILSON, RUSSELL B., US [72] XIN, HONG, US [72] ROBINSON, JAMES E., US [71] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US [71] THE BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL AND MECHANICAL COLLEGE, US [71] AUTOIMMUNE TECHNOLOGIES, LLC, US [85] 2022-01-27 [86] 2020-07-28 (PCT/US2020/043908) [87] (WO2021/021830) [30] US (62/879,894) 2019-07-29 [30] US (62/879,912) 2019-07-29	[51] Int.Cl. F25J 1/00 (2006.01) F25B 1/053 (2006.01) F25B 9/06 (2006.01) F25B 11/04 (2006.01) F25J 1/02 (2006.01) F25J 5/00 (2006.01) [25] EN [54] COOLING AND/OR LIQUEFYING SYSTEM AND METHOD [54] INSTALLATION ET PROCEDE DE REFROIDISSEMENT ET/OU DE LIQUEFACTION [72] DURAND, FABIEN, FR [72] NICOLAS, REMI, FR [72] GONDRAND, CECILE, FR [72] BERNHARDT, JEAN-MARC, FR [71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR [85] 2022-01-27 [86] 2020-07-08 (PCT/EP2020/069187) [87] (WO2021/023458) [30] FR (FR1908946) 2019-08-05	

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[21] **3,146,137**
[13] A1

[51] **Int.Cl. A61B 5/15 (2006.01) A61B 5/154 (2006.01)**
[25] EN
[54] **BLOOD COLLECTION DEVICE THAT SEQUESTERS AN INITIAL COLLECTED PORTION**
[54] **DISPOSITIF DE COLLECTE DE SANG QUI EMPRISONNE UNE PARTIE RECUEILLIE INITIALE**
[72] PARKER, THOMAS EDWARD, GB
[72] SARRIAS, MERISSA LIM, GB
[72] ARMSTRONG, ROBERT EDWARD, US
[72] CHAN, WAI TING, GB
[72] DEANE, STEVEN CHARLES, GB
[72] WHITTOME, SAMUEL EDMUND, GB
[72] WILLIAMS, ERIK DAVID, GB
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2022-01-27
[86] 2020-08-05 (PCT/US2020/044993)
[87] (WO2021/026223)
[30] US (62/883,941) 2019-08-07

[21] **3,146,138**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 9/08 (2006.01)**
[25] EN
[54] **FORMULATION COMPRISING ANTI-PD-1/HER2 BISPECIFIC ANTIBODY, METHOD FOR PREPARING SAME AND USE THEREOF**
[54] **PREPARATION COMPRENANT UN ANTICORPS BISPECIFIQUE ANTI-PD 1/HER2, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] LIU, YANGHAN, CN
[72] MA, YIDONG, CN
[72] WANG, YINJUE, CN
[72] ZHOU, KAISONG, CN
[71] INNOVENT BIOLOGICS (SUZHOU) CO., LTD., CN
[71] BEIJING HANMI PHARMACEUTICAL CO., LTD., CN
[85] 2022-01-27
[86] 2020-08-06 (PCT/CN2020/107441)
[87] (WO2021/023267)
[30] CN (201910726334.X) 2019-08-07

[21] **3,146,140**
[13] A1

[51] **Int.Cl. H01F 5/00 (2006.01) G01R 15/18 (2006.01) G01R 19/00 (2006.01)**
[25] EN
[54] **CURRENT SENSORS EMPLOYING ROGOWSKI COILS AND METHODS OF USING SAME**
[54] **CAPTEURS DE COURANT EMPLOYANT DES BOBINES DE ROGOWSKI ET LEURS PROCEDES D'UTILISATION**
[72] KULKARNI, SHREYAS, US
[72] DIVAN, DEEPAK, US
[71] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2022-01-27
[86] 2020-07-29 (PCT/US2020/044007)
[87] (WO2021/021889)
[30] US (62/879,700) 2019-07-29

[21] **3,146,209**
[13] A1

[51] **Int.Cl. C07K 1/36 (2006.01)**
[25] EN
[54] **METHOD FOR VIRAL INACTIVATION**
[54] **PROCEDE D'INACTIVATION VIRALE**
[72] MATTILA, JOHN, US
[72] BARMASSE, ANDREW, US
[72] CHIBOROSKI, MARK, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-01-28
[86] 2020-04-23 (PCT/US2020/029468)
[87] (WO2021/021260)
[30] US (62/881,692) 2019-08-01

[21] **3,146,211**
[13] A1

[51] **Int.Cl. C07D 311/04 (2006.01) A61K 31/352 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **METHOD FOR SYNTHESIZING 2-((6-(HYDROXYMETHYL)CHROMENE -5-YL)OXY)-1-PHENYLETHANONE DERIVATIVE**
[54] **PROCEDE DE SYNTHESE DE DERIVE 2-((6-(HYDROXYMETHYL)CHROMENE -5-YL)OXY)-1-PHENYLETHANONE**
[72] KANG, KU SUK, KR
[72] KIM, JIN YOUNG, KR
[72] YOO, SANG KU, KR
[72] KIM, JI YOUNG, KR
[72] LEE, JUNG WOO, KR
[72] LIM, JEONG HO, KR
[71] GLACEUM INC., KR
[85] 2022-01-28
[86] 2020-07-20 (PCT/KR2020/009549)
[87] (WO2021/020788)
[30] KR (10-2019-0092711) 2019-07-30

[21] **3,146,213**
[13] A1

[51] **Int.Cl. H01Q 19/06 (2006.01) G01S 13/74 (2006.01) G01S 13/76 (2006.01) H01Q 15/02 (2006.01) H01Q 15/04 (2006.01)**
[25] EN
[54] **GRADIENT-INDEX LENS BASED COMMUNICATION SYSTEMS**
[54] **SYSTEMES DE COMMUNICATION REPOSANT SUR UNE LENTILLE A GRADIENT D'INDICE**
[72] XIN, HAO, US
[72] LIANG, MIN, US
[72] XIN, JIANG, US
[71] LUNEWAVE, INC., US
[85] 2022-01-28
[86] 2020-07-29 (PCT/US2020/044016)
[87] (WO2021/021895)
[30] US (62/880,583) 2019-07-30

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[21] **3,146,219**
[13] A1

[51] **Int.Cl. G06N 10/00 (2022.01) G16C 10/00 (2019.01) G01N 33/00 (2006.01) G06N 5/00 (2006.01)**

[25] EN

[54] **EFFICIENT AND NOISE RESILIENT MEASUREMENTS FOR QUANTUM CHEMISTRY**

[54] **MESURES EFFICACES ET PEU SENSIBLES AU BRUIT POUR LA CHIMIE QUANTIQUE**

[72] BABBUSH, RYAN, US

[72] HUGGINS, WILLIAM, US

[72] MCCLEAN, JARROD RYAN, US

[71] GOOGLE LLC, US

[85] 2022-01-28

[86] 2020-07-28 (PCT/US2020/043884)

[87] (WO2021/021813)

[30] US (62/879,750) 2019-07-29

[21] **3,146,232**
[13] A1

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

[25] EN

[54] **PUSH AND TWIST MECHANISM FOR INTERFACING A DRIVE MECHANISM HANDPIECE WITH AN INTRAOCULAR LENS CARTRIDGE**

[54] **MECANISME DE POUSSEE ET DE TORSION POUR INTERFACER UNE PIECE A MAIN DE MECANISME D'ENTRAINEMENT AVEC UNE CARTOUCHE DE LENTILLE INTRAOCULAIRE**

[72] WU, YINGHUI, US

[71] ALCON INC., CH

[85] 2022-01-28

[86] 2020-08-21 (PCT/IB2020/057877)

[87] (WO2021/038414)

[30] US (62/890,859) 2019-08-23

[30] US (63/023,389) 2020-05-12

[21] **3,146,237**
[13] A1

[51] **Int.Cl. A01B 33/02 (2006.01) A01B 49/02 (2006.01) A01B 79/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING MATERIAL ACCUMULATION RELATIVE TO GROUND ENGAGING TOOLS OF AN AGRICULTURAL IMPLEMENT**

[54] **SYSTEME ET PROCEDE POUR DETERMINER UNE ACCUMULATION DE MATIERE RELATIVE A DES OUTILS DE MISE EN PRISE AVEC LE SOL D'UN EQUIPEMENT AGRICOLE**

[72] GLOVIER, SCOTT, US

[71] CNH INDUSTRIAL AMERICA LLC, US

[85] 2022-01-28

[86] 2020-08-11 (PCT/US2020/045714)

[87] (WO2021/030320)

[30] US (16/539,495) 2019-08-13

[21] **3,146,238**
[13] A1

[51] **Int.Cl. G01J 3/42 (2006.01)**

[25] EN

[54] **APPARATUS FOR MEASURING MULTI-WAVELENGTH TRANSMITTANCE USING LEARNED LED TEMPERATURE COMPENSATION MODEL**

[54] **APPAREIL DE MESURE DE TRANSMITTANCE A LONGUEURS D'ONDE MULTIPLES A L'AIDE D'UN MODELE DE COMPENSATION DE TEMPERATURE DE DEL APPRIS**

[72] GLOVER, JAMES ANDREW, CA

[71] REAL TECH HOLDINGS INC., CA

[85] 2022-01-28

[86] 2020-08-06 (PCT/CA2020/051070)

[87] (WO2021/022372)

[30] US (62/883,334) 2019-08-06

[21] **3,146,241**
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A23L 33/115 (2016.01) A23L 33/12 (2016.01)**

[25] EN

[54] **COMPOSITIONS FOR SWEETENING PROTEIN-BASED NUTRITION PRODUCTS**

[54] **COMPOSITIONS POUR EDULCORER DES PRODUITS NUTRITIONNELS A BASE DE PROTEINES**

[72] DISILVESTRO, ROBERT, US

[71] MEDINUTRA LLC, US

[85] 2022-01-28

[86] 2020-08-10 (PCT/US2020/045595)

[87] (WO2021/026528)

[30] US (62/884,212) 2019-08-08

[21] **3,146,245**
[13] A1

[51] **Int.Cl. G01N 21/90 (2006.01) G01N 21/88 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR OPTICALLY TESTING HOLLOW BODIES**

[54] **PROCEDE ET DISPOSITIF D'ESSAI OPTIQUE DE CORPS CREUX**

[72] HURNI, MICHEL, CH

[72] CHOQUARD, PASCAL, CH

[72] SCHLUP, BEAT, CH

[72] KLOCK, HANSJORG, CH

[71] FINATEC HOLDING AG, CH

[85] 2022-01-28

[86] 2020-08-03 (PCT/EP2020/071801)

[87] (WO2021/023706)

[30] CH (00980/19) 2019-08-02

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[21] **3,146,250**
[13] A1

[51] **Int.Cl. G01V 9/00 (2006.01) A01B 35/32 (2006.01) A01B 76/00 (2006.01) G01B 21/30 (2006.01) G01V 8/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING FIELD SURFACE CONDITIONS USING VISION-BASED DATA AND DATA FROM A SECONDARY SOURCE**

[54] **SYSTEME ET PROCEDURE POUR DETERMINER DES ETATS DE SURFACE DE CHAMP A L'AIDE DE DONNEES BASEES SUR LA VISION ET DE DONNEES PROVENANT D'UNE SOURCE SECONDAIRE**

[72] HENRY, JAMES W., CA

[71] CNH INDUSTRIAL CANADA, LTD., CA

[85] 2022-01-28

[86] 2020-08-12 (PCT/IB2020/057589)

[87] (WO2021/028847)

[30] US (16/538,996) 2019-08-13

[21] **3,146,252**
[13] A1

[51] **Int.Cl. C22C 21/06 (2006.01) B32B 15/01 (2006.01) C22C 21/10 (2006.01) C22F 1/047 (2006.01) C22F 1/053 (2006.01)**

[25] EN

[54] **CLAD 2XXX-SERIES AEROSPACE PRODUCT**

[54] **PRODUIT AEROSPATIAL DE SERIE 2XXX PLAQUE**

[72] JACOBY, BERND, DE

[72] BURGER, ACHIM, DE

[72] SPANGEL, SABINE MARIA, DE

[72] MEYER, PHILIPPE, DE

[71] ALERIS ROLLED PRODUCTS GERMANY GMBH, DE

[85] 2022-01-28

[86] 2020-08-13 (PCT/IB2020/057627)

[87] (WO2021/044239)

[30] EP (19195491.6) 2019-09-05

[21] **3,146,254**
[13] A1

[51] **Int.Cl. B25F 5/02 (2006.01)**

[25] EN

[54] **PORTABLE TOOL FOR MOBILE USE**

[54] **OUTIL PORTATIF DESTINE A UN USAGE MOBILE**

[72] LITWIN, THOMAS, DE

[72] PIEPER, MICHAEL, DE

[71] LUKAS HYDRAULIK GMBH, DE

[85] 2022-01-28

[86] 2019-09-11 (PCT/EP2019/074265)

[87] (WO2021/047774)

[21] **3,146,257**
[13] A1

[51] **Int.Cl. H02M 3/335 (2006.01)**

[25] EN

[54] **HYBRID BIDIRECTIONAL DC TO DC CONVERTER**

[54] **CONVERTISSEUR CONTINU-CONTINU BIDIRECTIONNEL HYBRIDE**

[72] WYMAN, MARK ROBERT, US

[72] LIU, FAN, US

[72] VOGEL, JOHN ANTHONY, US

[71] COMBINED ENERGIES, LLC, US

[85] 2022-01-28

[86] 2020-07-29 (PCT/US2020/070322)

[87] (WO2021/022297)

[30] US (62/879,745) 2019-07-29

[21] **3,146,259**
[13] A1

[51] **Int.Cl. G01N 21/00 (2006.01) G01N 21/63 (2006.01) G01N 21/64 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR OPTOGENETIC ACTIVATION AND MONITORING**

[54] **SYSTEMES ET PROCEDURES D'ACTIVATION ET DE SURVEILLANCE OPTOGENETIQUES**

[72] TARDIF, CHRISTIAN, CA

[71] INSTITUT NATIONAL D'OPTIQUE, CA

[85] 2022-01-28

[86] 2020-07-24 (PCT/CA2020/051020)

[87] (WO2021/022360)

[30] US (62/884,344) 2019-08-08

[21] **3,146,264**
[13] A1

[51] **Int.Cl. C09D 7/41 (2018.01) C09D 7/20 (2018.01) C09D 7/61 (2018.01) C08K 3/10 (2018.01) C08K 3/22 (2006.01) C08K 3/26 (2006.01) C08K 3/34 (2006.01) C09D 123/08 (2006.01)**

[25] EN

[54] **COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT**

[72] HUGHES, JOHN E., US

[72] HUNTZINGER, SUZANNE M., US

[71] ARMSTRONG WORLD INDUSTRIES, INC., US

[85] 2022-01-28

[86] 2020-08-12 (PCT/US2020/045912)

[87] (WO2021/030426)

[30] US (62/885,430) 2019-08-12

[21] **3,146,266**
[13] A1

[51] **Int.Cl. C07J 9/00 (2006.01) A23L 33/11 (2016.01) C07J 75/00 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PURIFICATION OF PHYTOSTEROL**

[54] **PROCEDURE DE PURIFICATION DE PHYTOSTEROL**

[72] EYCHENNE, VALERIE, FR

[72] BASSO, YANNICK, FR

[72] VALLEJO, OLIVIER, FR

[71] BASF SE, DE

[71] BASF HEALTH AND CARE PRODUCTS FRANCE S.A.S., FR

[85] 2022-01-28

[86] 2020-09-24 (PCT/EP2020/076727)

[87] (WO2021/058648)

[30] EP (19200108.9) 2019-09-27

[21] **3,146,270**
[13] A1

[51] **Int.Cl. A61C 17/02 (2006.01) A61L 2/03 (2006.01)**

[25] EN

[54] **CONTACTING SYSTEM AND USE OF THE CONTACTING SYSTEM**

[54] **SYSTEME DE MISE EN CONTACT ET UTILISATION DU SYSTEME DE MISE EN CONTACT**

[72] BRODBECK, URS, CH

[72] EBERLE, ROGER, CH

[72] JAENECKE, BERND, CH

[71] GALVOSURGE DENTAL AG, CH

[85] 2022-01-28

[86] 2020-07-28 (PCT/EP2020/071219)

[87] (WO2021/018871)

[30] DE (10 2019 211 370.2) 2019-07-30

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[21] **3,146,271**
[13] A1

[51] **Int.Cl. B65B 13/34 (2006.01) B65B 13/18 (2006.01) B65B 13/22 (2006.01) B65B 57/00 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR TENSIONING**

[54] **PROCEDE ET DISPOSITIF DE TENSIONNAGE**

[72] DIEDERIKS, ELMO, NL

[72] VAN BERLO, PERRY, NL

[71] CORDSTRAP B.V., NL

[85] 2022-01-28

[86] 2020-08-28 (PCT/EP2020/074120)

[87] (WO2021/038067)

[30] NL (NL2023736) 2019-08-30

[30] NL (NL2023865) 2019-09-20

[21] **3,146,272**
[13] A1

[51] **Int.Cl. G06F 16/25 (2019.01) G06F 16/242 (2019.01) G06F 16/2453 (2019.01) G06F 9/54 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR ADAPTING PROGRAMS FOR INTEROPERABILITY AND ADAPTERS THEREFOR**

[54] **PROCEDE ET SYSTEME POUR ADAPTER DES PROGRAMMES POUR UNE INTEROPERABILITE ET ADAPTATEURS ASSOCIES**

[72] HAUDENSCHILD, CHRIS A., US

[71] CLINICOMP INTERNATIONAL, INC., US

[85] 2022-01-28

[86] 2020-08-13 (PCT/US2020/070410)

[87] (WO2021/030845)

[30] US (16/542,259) 2019-08-15

[21] **3,146,273**
[13] A1

[51] **Int.Cl. A01B 33/16 (2006.01) A01B 33/08 (2006.01) A01B 63/112 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETECTING A PLUG OF A TOOL OF A TILLAGE IMPLEMENT**

[54] **SYSTEME ET PROCEDE DE DETECTION D'UNE FICHE D'UN INSTRUMENT DE TRAVAIL DU SOL**

[72] HENRY, JAMES W., CA

[71] CNH INDUSTRIAL CANADA, LTD., CA

[85] 2022-01-28

[86] 2020-08-12 (PCT/IB2020/057597)

[87] (WO2021/028849)

[30] US (16/540,653) 2019-08-14

[21] **3,146,283**
[13] A1

[51] **Int.Cl. F16G 11/02 (2006.01) F16G 11/04 (2006.01) G01L 5/10 (2020.01)**

[25] EN

[54] **METHOD OF INSPECTING AND MONITORING A FIBER TERMINATION**

[54] **PROCEDE D'INSPECTION ET DE SURVEILLANCE D'UNE TERMINAISON DE FIBRE**

[72] CAMPBELL, RICHARD V., US

[71] CAMPBELL, RICHARD V., US

[85] 2022-01-28

[86] 2020-01-27 (PCT/US2020/015134)

[87] (WO2021/021244)

[30] US (62/881,213) 2019-07-31

[30] US (16/747,580) 2020-01-21

[21] **3,146,286**
[13] A1

[51] **Int.Cl. G01J 3/46 (2006.01) G01J 3/50 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR A ROBUST COLOR MATCHING AND ADJUSTMENT PROCESS OF EFFECT COLORS**

[54] **PROCEDE ET SYSTEME POUR UN PROCESSUS ROBUSTE DE MISE EN CORRESPONDANCE ET DE REGLAGE DE COULEURS DE COULEURS A EFFET**

[72] BISCHOFF, GUIDO, DE

[71] BASF COATINGS GMBH, DE

[85] 2022-01-28

[86] 2020-08-01 (PCT/EP2020/071749)

[87] (WO2021/023683)

[30] EP (19190393.9) 2019-08-06

[21] **3,146,290**
[13] A1

[51] **Int.Cl. G01N 33/566 (2006.01) C07K 14/73 (2006.01) C12N 15/12 (2006.01)**

[25] EN

[54] **METHODS OF IDENTIFYING T CELL RECEPTORS**

[54] **PROCEDES D'IDENTIFICATION DE RECEPTEURS DE LYMPHOCYTES T**

[72] HIRANO, NAOTO, CA

[72] NAKATSUGAWA, MUNEHIDE, CA

[72] YAMASHITA, YUKI, CA

[72] SUGATA, KENJI, CA

[72] RAHMAN, MUHAMMED AASHIQ, CA

[71] UNIVERSITY HEALTH NETWORK, CA

[85] 2022-01-28

[86] 2020-07-29 (PCT/IB2020/057176)

[87] (WO2021/019476)

[30] US (62/880,492) 2019-07-30

[30] US (63/029,103) 2020-05-22

[21] **3,146,291**
[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01) F25B 1/053 (2006.01) F25B 1/10 (2006.01) F25B 9/06 (2006.01) F25B 11/04 (2006.01) F25B 31/02 (2006.01) F25J 1/02 (2006.01) F25J 5/00 (2006.01)**

[25] EN

[54] **REFRIGERATION DEVICE AND FACILITY**

[54] **DISPOSITIF ET INSTALLATION DE REFRIGERATION**

[72] DURAND, FABIEN, FR

[72] DELAUTRE, GUILLAUME, FR

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

[85] 2022-01-28

[86] 2020-07-08 (PCT/EP2020/069174)

[87] (WO2021/023455)

[30] FR (FR1908948) 2019-08-05

Demandes PCT entrant en phase nationale

[21] **3,146,292**
[13] A1

[51] **Int.Cl. C07K 14/74 (2006.01)**
[25] EN
[54] **MHC CLASS II MOLECULES AND METHODS OF USE THEREOF**
[54] **MOLECULES DE CLASSE II DU CMH ET LEURS PROCEDES D'UTILISATION**
[72] HIRANO, NAOTO, CA
[72] SUGATA, KENJI, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2022-01-28
[86] 2020-07-29 (PCT/IB2020/057173)
[87] (WO2021/019473)
[30] US (62/880,501) 2019-07-30
[30] US (63/029,114) 2020-05-22

[21] **3,146,295**
[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01) F25B 1/053 (2006.01) F25B 1/10 (2006.01) F25B 9/06 (2006.01) F25B 11/04 (2006.01) F25B 31/02 (2006.01) F25J 1/02 (2006.01) F25J 5/00 (2006.01)**
[25] EN
[54] **REFRIGERATION DEVICE AND SYSTEM**
[54] **DISPOSITIF ET INSTALLATION DE REFRIGERATION**
[72] DURAND, FABIEN, FR
[72] DELAUTRE, GUILLAUME, FR
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2022-01-28
[86] 2020-07-08 (PCT/EP2020/069193)
[87] (WO2021/023459)
[30] FR (FR1908949) 2019-08-05

[21] **3,146,296**
[13] A1

[51] **Int.Cl. C07K 14/74 (2006.01)**
[25] EN
[54] **MHC CLASS II MOLECULES AND METHODS OF USE THEREOF**
[54] **MOLECULES DE CLASSE II DU CMH ET LEURS PROCEDES D'UTILISATION**
[72] HIRANO, NAOTO, CA
[72] SUGATA, KENJI, CA
[72] GUO, TINGXI, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2022-01-28
[86] 2020-07-29 (PCT/IB2020/057174)
[87] (WO2021/019474)
[30] US (62/880,509) 2019-07-30
[30] US (63/029,115) 2020-05-22

[21] **3,146,298**
[13] A1

[51] **Int.Cl. C12N 15/867 (2006.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **T CELL RECEPTORS AND METHODS OF USE THEREOF**
[54] **RECEPTEURS DE LYMPHOCYTES T ET LEURS PROCEDES D'UTILISATION**
[72] HIRANO, NAOTO, CA
[72] SUGATA, KENJI, CA
[72] SASO, KAYOKO, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2022-01-28
[86] 2020-07-29 (PCT/IB2020/057172)
[87] (WO2021/019472)
[30] US (62/880,504) 2019-07-30

[21] **3,146,299**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/11 (2006.01) A61B 5/16 (2006.01)**
[25] EN
[54] **MEASURING SYSTEM FOR MEASURING HAND-EYE REACTION ABILITY**
[54] **SYSTEME DE MESURE POUR MESURER UNE REACTIVITE MAIN-?IL**
[72] NISSER, JENNY, DE
[72] RUPPRECHT, SVEN, DE
[72] DERLIEN, STEFFEN, DE
[71] SANIVA DIAGNOSTICS GMBH, DE
[85] 2022-01-28
[86] 2020-08-19 (PCT/EP2020/073193)
[87] (WO2021/037631)
[30] EP (19193520.4) 2019-08-26
[30] DE (10 2020 115 749.5) 2020-06-15

[21] **3,146,300**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01)**
[25] EN
[54] **MULTILAYER FILMS HAVING AT LEAST THREE LAYERS AND METHODS OF PRODUCING THE SAME**
[54] **FILMS MULTICOUCHE COMPORTANT AU MOINS TROIS COUCHES ET PROCEDES DE PRODUCTION DE CEUX-CI**
[72] ALABOSON, JUSTICE, US
[72] BISWAS, SANJIB, US
[72] GAUBERT, JOSHUA B., US
[72] GINGER, DOUGLAS S., US
[72] KALIHARI, VIVEK, US
[72] KAPUR, MRIDULA, US
[72] KARDOS, LORI L., US
[72] MAZZOLA, NICOLAS CARDOSO, BR
[72] OLAJIDE, JR. FRANCIS O., US
[72] ONER-DELIORMANLI, DIDEM, US
[72] RUIZ, JOSE EDUARDO, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2022-01-28
[86] 2020-08-04 (PCT/US2020/044856)
[87] (WO2021/026134)
[30] US (62/883,469) 2019-08-06
[30] US (62/883,467) 2019-08-06

PCT Applications Entering the National Phase

[21] **3,146,302**
[13] A1

[51] **Int.Cl. C12N 15/867 (2006.01) C12N 5/0783 (2010.01) C12N 15/113 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C12N 15/12 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **T CELL RECEPTORS AND METHODS OF USE THEREOF**

[54] **RECEPTEURS DE LYMPHOCYTES T ET LEURS PROCEDES D'UTILISATION**

[72] HIRANO, NAOTO, CA

[72] SUGATA, KENJI, CA

[72] SASO, KAYOKO, CA

[71] UNIVERSITY HEALTH NETWORK, CA

[85] 2022-01-28

[86] 2020-07-29 (PCT/IB2020/057171)

[87] (WO2021/019471)

[30] US (62/880,505) 2019-07-30

[21] **3,146,303**
[13] A1

[51] **Int.Cl. C12N 15/867 (2006.01) C12N 5/0783 (2010.01) C12N 15/113 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C12N 15/12 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **T CELL RECEPTORS AND METHODS OF USE THEREOF**

[54] **RECEPTEURS DE LYMPHOCYTES T ET LEURS PROCEDES D'UTILISATION**

[72] HIRANO, NAOTO, CA

[72] SUGATA, KENJI, CA

[72] SASO, KAYOKO, CA

[71] UNIVERSITY HEALTH NETWORK, CA

[85] 2022-01-28

[86] 2020-07-29 (PCT/IB2020/057177)

[87] (WO2021/019477)

[30] US (62/880,508) 2019-07-30

[21] **3,146,305**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01)**

[25] EN

[54] **MULTILAYER FILMS THAT INCLUDE AT LEAST FIVE LAYERS AND METHODS OF PRODUCING THE SAME**

[54] **FILMS MULTICOUCHES QUI COMPRENENT AU MOINS CINQ COUCHES ET LEURS PROCEDES DE PRODUCTION**

[72] RODRIGUEZ CAMELO, JORGE MARIO, CO

[72] DE OLIVEIRA, MARLOS GUINTINI, BR

[72] MAZZOLA, NICOLAS CARDOSO, BR

[72] BISWAS, SANJIB, US

[72] GAUBERT, JOSHUA B., US

[72] GINGER, DOUGLAS S., US

[72] KAPUR, MRIDULA, US

[72] ONER-DELIORMANLI, DIDEM, US

[72] DEMIRORS, MEHMET, US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[71] DOW QUIMICA DE COLOMBIA S.A., CO

[85] 2022-01-28

[86] 2020-08-04 (PCT/US2020/044862)

[87] (WO2021/026139)

[30] US (62/883,475) 2019-08-06

[30] US (62/883,467) 2019-08-06

[21] **3,146,306**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/427 (2006.01) A61K 31/606 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **MULTIKINASE DEGRADERS**

[54] **AGENTS DE DEGRADATION MULTIKINASES**

[72] STATSYUK, ALEXANDER, US

[72] CHOWDHURY, SANDIPAN ROY, US

[71] UNIVERSITY OF HOUSTON SYSTEM, US

[85] 2022-01-28

[86] 2020-07-28 (PCT/US2020/043855)

[87] (WO2021/021797)

[30] US (62/880,700) 2019-07-31

[21] **3,146,307**
[13] A1

[51] **Int.Cl. C07K 14/74 (2006.01)**

[25] EN

[54] **MHC CLASS II MOLECULES AND METHODS OF USE THEREOF**

[54] **MOLECULES DE CLASSE II DU CMH ET LEURS PROCEDES D'UTILISATION**

[72] HIRANO, NAOTO, CA

[72] NAKATSUGAWA, MUNEHIDE, CA

[72] YAMASHITA, YUKI, CA

[72] RAHMAN, MUHAMMED AASHIQ, CA

[72] GUO, TINGXI, CA

[71] UNIVERSITY HEALTH NETWORK, CA

[85] 2022-01-28

[86] 2020-07-29 (PCT/IB2020/057175)

[87] (WO2021/019475)

[30] US (62/880,496) 2019-07-30

[30] US (63/029,111) 2020-05-22

[21] **3,146,310**
[13] A1

[51] **Int.Cl. C08J 3/20 (2006.01) C08J 9/00 (2006.01) C08K 3/00 (2018.01) C08L 27/06 (2006.01) C08L 83/04 (2006.01)**

[25] EN

[54] **PVC FORMULATIONS COMPRISING HIGH MINERAL FILLER CONTENTS AND A HYDROXYL-FUNCTIONAL ORGANOPOLYSILOXANE**

[54] **FORMULATIONS DE PVC COMPRENANT DES TENEURS ELEVEES EN CHARGE MINERALE ET UN ORGANOPOLYSILOXANE A FONCTION HYDROXYLE**

[72] NERKAR, MANOJ, US

[72] CHORVATH, IGOR, US

[72] GUO, HAILAN, US

[71] ROHM AND HAAS COMPANY, US

[71] DOW SILICONES CORPORATION, US

[85] 2022-01-28

[86] 2020-08-06 (PCT/US2020/045121)

[87] (WO2021/026302)

[30] US (62/883,839) 2019-08-07

Demandes PCT entrant en phase nationale

[21] **3,146,312**
[13] A1

[51] **Int.Cl. A01B 23/02 (2006.01) A01B 35/22 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MONITORING THE INSTALLATION STATUS OF A SHANK ATTACHMENT MEMBER OF AN AGRICULTURAL IMPLEMENT**

[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE L'ETAT D'INSTALLATION D'UN ELEMENT DE FIXATION DE TIGE D'UN OUTIL AGRICOLE**

[72] GLOVIER, SCOTT, US

[71] CNH INDUSTRIAL AMERICA LLC, US

[85] 2022-01-28

[86] 2020-08-12 (PCT/US2020/045852)

[87] (WO2021/030390)

[30] US (16/540,315) 2019-08-14

[21] **3,146,313**
[13] A1

[51] **Int.Cl. A61K 31/365 (2006.01) A61K 31/55 (2006.01)**

[25] EN

[54] **PLANT-BASED CHEMICALS FOR VARROA MITE CONTROL**

[54] **PRODUITS CHIMIQUES A BASE DE PLANTES POUR LA LUTTE CONTRE LES ACARIENS VARROA**

[72] HUANG, ZACHARY, US

[72] XU, XINJIAN, US

[71] BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, US

[85] 2022-01-28

[86] 2020-07-29 (PCT/US2020/044082)

[87] (WO2021/021939)

[30] US (62/880,153) 2019-07-30

[21] **3,146,319**
[13] A1

[51] **Int.Cl. C08L 27/06 (2006.01) C08L 83/04 (2006.01) C08K 3/013 (2018.01) C08K 3/22 (2006.01) C08K 3/26 (2006.01) C08K 3/34 (2006.01)**

[25] EN

[54] **PVC COMPOSITION, POLYMER COMPOSITE ARTICLE FORMED THEREWITH, AND METHOD OF PREPARING SAME**

[54] **COMPOSITION PVC, ARTICLE COMPOSITE POLYMERE FORME AVEC CELLE-CI, ET PROCEDE DE PREPARATION ASSOCIE**

[72] GUO, HAILAN, US

[72] NERKAR, MANOJ, US

[72] VUONG, SHARON, US

[72] CHORVATH, IGOR, US

[71] ROHM AND HAAS COMPANY, US

[71] DOW SILICONES CORPORATION, US

[85] 2022-01-28

[86] 2020-08-06 (PCT/US2020/045123)

[87] (WO2021/026303)

[30] US (62/883,840) 2019-08-07

[21] **3,146,322**
[13] A1

[51] **Int.Cl. H05B 45/14 (2020.01) H05B 45/18 (2020.01) H05B 47/175 (2020.01)**

[25] EN

[54] **LED BASED ILLUMINATION SYSTEM**

[54] **SYSTEME D'ECLAIRAGE A DEL**

[72] SAES, MARC, NL

[72] VERSTEEGDE, TIJS, NL

[71] ELDOLAB HOLDING B.V., NL

[85] 2022-01-28

[86] 2020-07-29 (PCT/EP2020/071441)

[87] (WO2021/018984)

[30] NL (2023590) 2019-07-30

[21] **3,146,323**
[13] A1

[51] **Int.Cl. A61B 5/11 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MOVEMENT MODULATION OF A BODY PART OF A SUBJECT**

[54] **SYSTEMES ET PROCEDES DE MODULATION DU MOUVEMENT D'UNE PARTIE DU CORPS D'UN SUJET**

[72] BONIZZATO, MARCO, CA

[72] MARTINEZ, MARINA, CA

[71] UNIVERSITE DE MONTREAL, CA

[85] 2022-01-28

[86] 2020-07-30 (PCT/CA2020/051047)

[87] (WO2021/016715)

[30] US (62/880,364) 2019-07-30

[21] **3,146,325**
[13] A1

[51] **Int.Cl. C08J 3/20 (2006.01) C08L 27/06 (2006.01) C08K 3/01 (2018.01) C08L 83/04 (2006.01)**

[25] EN

[54] **PVC COMPOSITION COMPRISING MINERAL FILLER AND VINYL-FUNCTIONAL POLYDIORGANOSILOXANE, POLYMER COMPOSITE ARTICLE FORMED THEREWITH, AND METHOD OF PREPARING THE SAME**

[54] **COMPOSITION DE PVC COMPRENANT UNE CHARGE MINERALE ET UN POLYDIORGANOSILOXANE A FONCTION VINYLE, ARTICLE COMPOSITE POLYMERE FORME AVEC CELLE-CI ET PROCEDE DE PREPARATION ASSOCIE**

[72] GUO, HAILAN, US

[72] NERKAR, MANOJ, US

[72] VUONG, SHARON, US

[72] CHORVATH, IGOR, US

[71] ROHM AND HAAS COMPANY, US

[71] DOW SILICONES CORPORATION, US

[85] 2022-01-28

[86] 2020-08-06 (PCT/US2020/045125)

[87] (WO2021/026304)

[30] US (62/883,841) 2019-08-07

PCT Applications Entering the National Phase

[21] **3,146,326**
[13] A1

[51] **Int.Cl. F21S 2/00 (2016.01) F21V 21/15 (2006.01) F21V 21/30 (2006.01) F21V 23/00 (2015.01) F21V 23/04 (2006.01)**

[25] EN

[54] **CEILING-MOUNTED TYPE LIGHTING DEVICE**

[54] **DISPOSITIF D'ECLAIRAGE DU TYPE PLAFONNIER**

[72] SASAKI, MICHIRU, JP

[72] YOSHIZAWA, TAKAHITO, JP

[71] ELCO CO., LTD, JP

[71] EVERS CO., LTD, JP

[71] DAI-ICHI SHOMEI CO., LTD, JP

[85] 2022-01-28

[86] 2020-06-22 (PCT/JP2020/024400)

[87] (WO2021/019957)

[30] JP (2019-138849) 2019-07-29

[21] **3,146,327**
[13] A1

[51] **Int.Cl. C08L 97/02 (2006.01) C08L 23/04 (2006.01) C08L 83/04 (2006.01)**

[25] EN

[54] **POLYDIORGANOSILOXANE COMPOSITIONS AND METHODS FOR USE THEREOF IN FORMING WOOD PLASTIC COMPOSITES**

[54] **COMPOSITIONS DE POLYDIORGANOSILOXANE ET LEURS PROCEDÉS D'UTILISATION DANS LA FORMATION DE COMPOSITES BOIS-PLASTIQUE**

[72] MECCA, JODI, US

[72] KEENIHAN, JAMES, US

[72] COURTEMANCHE, MARC-ANDRE, US

[72] BRUCE, KEITH, US

[72] CHORVATH, IGOR, US

[72] GAAL, SEAN, US

[71] DOW SILICONES CORPORATION, US

[85] 2022-01-28

[86] 2020-06-10 (PCT/US2020/036891)

[87] (WO2021/025776)

[30] US (62/883,683) 2019-08-07

[21] **3,146,331**
[13] A1

[51] **Int.Cl. B01D 46/48 (2006.01) F02M 35/08 (2006.01)**

[25] EN

[54] **ACTUATED AIR FILTER DUST VALVE**

[54] **SOUPAPE A POUSSIERE DE FILTRE A AIR ACTIONNEE**

[72] SPENGLER, PHILIP C., US

[72] RIES, JEFFREY R., US

[72] IMMEL, JON T., US

[72] RODRIGUEZ, JAVIER A., US

[71] CATERPILLAR INC., US

[85] 2022-01-28

[86] 2020-07-17 (PCT/US2020/042525)

[87] (WO2021/025847)

[30] US (16/534,706) 2019-08-07

[21] **3,146,332**
[13] A1

[51] **Int.Cl. C04B 40/02 (2006.01)**

[25] EN

[54] **A CARBONATED COMPOSITE**

[54] **COMPOSITE CARBONATE**

[72] SANTAMARIA RAZO, DIEGO A., NL

[72] KEULEN, ARNO, NL

[71] CRH GROUP SERVICES LIMITED, IE

[85] 2022-01-28

[86] 2020-08-14 (PCT/EP2020/072906)

[87] (WO2021/028581)

[30] NL (2023648) 2019-08-15

[21] **3,146,334**
[13] A1

[51] **Int.Cl. B62D 55/21 (2006.01)**

[25] EN

[54] **TRACK ASSEMBLY BUSHING HAVING WHITE IRON MEMBER**

[54] **DOUILLE DE CHAÎNE DE MONTAGE DOTÉE D'UN ÉLÉMENT EN FER BLANC**

[72] RATHOD, CHANDRASEN R., US

[72] RECKER, ROGER L., US

[72] PICKERILL, ROBERT J., US

[72] GRAHAM, SUSAN M., US

[72] KEELE, SCOTT, US

[72] YANIAC, THOMAS J., US

[71] CATERPILLAR INC., US

[85] 2022-01-28

[86] 2020-07-17 (PCT/US2020/042502)

[87] (WO2021/025846)

[30] US (16/534,866) 2019-08-07

[21] **3,146,336**
[13] A1

[51] **Int.Cl. A01N 25/30 (2006.01) A01N 25/02 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **STABLE HERBICIDAL COMPOSITIONS COMPRISING AMINE OXIDE AND TERTIARY AMINE**

[54] **COMPOSITIONS HERBICIDES STABLES COMPRENANT UN OXYDE D'AMINE ET UNE AMINE TERTIAIRE**

[72] CHEN, ZIXIAN, SG

[72] MONTEROSSO, RENATO, AU

[72] ZHOU, YUMING, CN

[72] O'BRIEN, PAIGE LANA, AU

[71] RHODIA OPERATIONS, FR

[85] 2022-01-28

[86] 2020-08-20 (PCT/CN2020/110174)

[87] (WO2021/052094)

[30] CN (PCT/CN2019/106891) 2019-09-20

[21] **3,146,337**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/49 (2006.01) G01N 33/86 (2006.01)**

[25] EN

[54] **METHOD AND MEANS FOR DIAGNOSING A HUMAN SEPSIS**

[54] **PROCEDE ET MOYENS PERMETTANT DE DIAGNOSTIQUER UN SEPSIS HUMAIN**

[72] WEISS, LUKAS, DE

[72] MANUKJIAN, GEORGI, DE

[72] WEISMANN, DIRK, DE

[72] SCHULZE, HARALD, DE

[71] JULIUS-MAXIMILIANS-UNIVERSITAT WURZBURG, DE

[85] 2022-01-28

[86] 2020-08-10 (PCT/EP2020/072409)

[87] (WO2021/023894)

[30] EP (19190817.7) 2019-08-08

Demandes PCT entrant en phase nationale

[21] **3,146,338**
[13] A1

[51] **Int.Cl. B32B 7/02 (2019.01) B32B 27/18 (2006.01) B32B 27/28 (2006.01) B32B 27/32 (2006.01) B65D 77/06 (2006.01) C08L 23/06 (2006.01) C08L 83/04 (2006.01)**

[25] EN

[54] **MULTILAYER FILMS AND ARTICLES COMPRISING MULTILAYER FILMS**

[54] **FILMS MULTICOUCHES ET ARTICLES COMPRENANT DES FILMS MULTICOUCHES**

[72] ALABOSON, JUSTICE, US

[72] KALIHARI, VIVEK, US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2022-01-28

[86] 2020-06-29 (PCT/US2020/040056)

[87] (WO2021/021354)

[30] US (62/880,833) 2019-07-31

[21] **3,146,339**
[13] A1

[51] **Int.Cl. C02F 1/32 (2006.01) C02F 1/42 (2006.01) C02F 1/52 (2006.01) C02F 1/72 (2006.01)**

[25] EN

[54] **TREATMENT OF AZOLES**

[54] **TRAITEMENT D'AZOLES**

[72] KNAPP, ALAN, US

[72] SASSAMAN JR., FRANK L., US

[71] EVOQUA WATER TECHNOLOGIES LLC, US

[85] 2022-01-28

[86] 2020-08-26 (PCT/US2020/047870)

[87] (WO2021/041459)

[30] US (62/891,580) 2019-08-26

[21] **3,146,340**
[13] A1

[51] **Int.Cl. A01D 87/02 (2006.01) A01D 87/12 (2006.01)**

[25] EN

[54] **DEVICE FOR PICKING UP FORAGE BALES FROM THE FORAGE AND SELF-LOADING FORAGE BALE MACHINE COMPRISING THIS DEVICE**

[54] **DISPOSITIF DE RAMASSAGE DE BALLE DE FOURRAGE A PARTIR DU SOL ET MACHINE A BALLE DE FOURRAGE A CHARGEMENT AUTOMATIQUE COMPRENANT CE DISPOSITIF**

[72] CUSINE BARBER, MANUEL, ES

[71] ARCUSIN S.A., ES

[85] 2022-01-28

[86] 2020-07-28 (PCT/EP2020/071243)

[87] (WO2021/018880)

[30] EP (19382660.9) 2019-07-31

[21] **3,146,341**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **BISPECIFIC ANTI LRRC15 AND CD3EPSILUN ANTIBODIES**

[54] **COMPOSES DE LIAISON MULTISPECIFIQUES QUI SE LIENT A LRRC15 ET CD3?**

[72] KURTZMAN, AARON L., US

[72] CHEN, SHIHAO, US

[71] QLSF BIOTHERAPEUTICS, INC., US

[85] 2022-01-28

[86] 2020-07-30 (PCT/US2020/070334)

[87] (WO2021/022304)

[30] US (62/880,347) 2019-07-30

[21] **3,146,342**
[13] A1

[51] **Int.Cl. A45B 3/02 (2006.01) A45B 9/04 (2006.01) A61H 3/02 (2006.01) A63C 11/22 (2006.01)**

[25] EN

[54] **ILLUMINATED TREKKING POLE**

[54] **BATON DE RANDONNEE ECLAIRE**

[72] CHENG, ELMER CHI HANG, CN

[72] OCEGUEDA GALLAGA, VICTOR HUGO, MX

[71] BELGRAVIA WOOD LIMITED, VG

[85] 2022-01-28

[86] 2020-01-21 (PCT/US2020/014349)

[87] (WO2021/021241)

[30] CN (201921220456.3) 2019-07-31

[30] CN (201921756973.2) 2019-10-19

[21] **3,146,393**
[13] A1

[51] **Int.Cl. C07K 16/22 (2006.01) A61P 19/10 (2006.01)**

[25] EN

[54] **ANTI-SCLEROSTIN ANTIBODY FORMULATIONS**

[54] **FORMULATIONS D'ANTICORPS ANTI-SCLEROSTINE**

[72] CHRISTIAN, TWINKLE R., US

[71] AMGEN INC, US

[85] 2022-01-31

[86] 2020-08-07 (PCT/US2020/045365)

[87] (WO2021/030179)

[30] US (62/885,672) 2019-08-12

[21] **3,146,400**
[13] A1

[51] **Int.Cl. A61F 13/08 (2006.01) D04B 21/18 (2006.01)**

[25] FR

[54] **COMPRESSION BANDAGE WITH OPTIMIZED SURFACE**

[54] **BANDE DE CONTENTION A SURFACE OPTIMISEE**

[72] COHADE, CELINE, FR

[72] GRANGE, DAVID, FR

[72] LECOMTE, SERGE, FR

[72] ROBLOT, MAGALI, FR

[71] URGO RECHERCHE INNOVATION ET DEVELOPPEMENT, FR

[85] 2022-01-31

[86] 2020-08-19 (PCT/FR2020/051485)

[87] (WO2021/032931)

[30] FR (FR1909345) 2019-08-22

PCT Applications Entering the National Phase

[21] **3,146,405**
[13] A1

[51] **Int.Cl. C22C 21/12 (2006.01) B32B 15/01 (2006.01) C22C 21/08 (2006.01) C22C 21/14 (2006.01) C22F 1/05 (2006.01) C22F 1/057 (2006.01)**

[25] EN

[54] **CLAD 2XXX-SERIES AEROSPACE PRODUCT**

[54] **PRODUIT AEROSPATIAL DE SERIE 2XXX PLAQUE**

[72] DAVIDKOV, ALEKSANDAR
LOZANOV, DE

[72] BURGER, ACHIM, DE

[72] SPANGEL, SABINE MARIA, DE

[72] MEYER, PHILIPPE, DE

[71] ALERIS ROLLED PRODUCTS
GERMANY GMBH, DE

[85] 2022-01-31

[86] 2020-07-27 (PCT/IB2020/057081)

[87] (WO2021/033050)

[30] EP (19193108.8) 2019-08-22

[21] **3,146,423**
[13] A1

[51] **Int.Cl. A61K 31/551 (2006.01) A61P 31/16 (2006.01)**

[25] EN

[54] **IMPROVED DOSAGE OF BALOXAVIR MARBOXIL FOR PEDIATRIC PATIENTS**

[54] **POSOLOGIE AMELIOREE DU BALOXAVIR MARBOXIL POUR PATIENTS PEDIATRIQUES**

[72] DE BUCK, STEFAN, CH

[72] RETOUT, SYLVIE, CH

[72] WAJIMA, TOSHIHIRO, JP

[72] ISHIBASHI, TORU, JP

[71] SHIONOGI & CO., LTD., JP

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

[85] 2022-01-31

[86] 2019-08-13 (PCT/EP2019/071699)

[87] (WO2021/028024)

[21] **3,146,435**
[13] A1

[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6855 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6874 (2018.01) C12Q 1/6876 (2018.01)**

[25] EN

[54] **METHODS AND REAGENTS FOR NUCLEIC ACID SEQUENCING AND ASSOCIATED APPLICATIONS**

[54] **PROCEDES ET REACTIFS POUR LE SEQUENCAGE D'ACIDES NUCLEIQUES ET APPLICATIONS ASSOCIEES**

[72] SALK, JESSE J., US

[71] TWINSTRAND BIOSCIENCES, INC.,
US

[85] 2022-01-31

[86] 2020-08-01 (PCT/US2020/044673)

[87] (WO2021/022237)

[30] US (62/881,936) 2019-08-01

[21] **3,146,442**
[13] A1

[51] **Int.Cl. G16B 20/30 (2019.01) C12Q 1/6869 (2018.01) G16B 15/30 (2019.01)**

[25] EN

[54] **METHODS OF IDENTIFYING CIS-REGULATORY ELEMENTS AND USES THEREOF**

[54] **PROCEDES D'IDENTIFICATION D'ELEMENTS CIS-REGULATEURS ET UTILISATIONS ASSOCIEES**

[72] HAIBE-KAINS, BENJAMIN, CA

[72] LUPIEN, MATHIEU, CA

[72] MADANI TONEKABONI, SEYED
ALI, CA

[71] UNIVERSITY HEALTH NETWORK,
CA

[85] 2022-01-31

[86] 2020-08-03 (PCT/CA2020/051062)

[87] (WO2021/022367)

[30] US (62/882,173) 2019-08-02

[21] **3,146,444**
[13] A1

[51] **Int.Cl. A01B 63/00 (2006.01) A01B 79/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETERMINING FIELD CHARACTERISTICS BASED ON A DISPLAYED LIGHT PATTERN**

[54] **SYSTEME ET PROCEDE DE DETERMINATION DES CARACTERISTIQUES D'UN CHAMP SUR LA BASE D'UN MOTIF DE LUMIERE AFFICHE**

[72] POOSA, SAI RAGHAVENDRA
PRASAD, US

[71] CNH INDUSTRIAL AMERICA LLC,
US

[85] 2022-01-31

[86] 2020-08-12 (PCT/US2020/045867)

[87] (WO2021/030399)

[30] US (16/540,377) 2019-08-14

[21] **3,146,449**
[13] A1

[51] **Int.Cl. C09D 5/08 (2006.01) B32B 15/08 (2006.01) B32B 15/20 (2006.01) C09D 5/16 (2006.01) C23C 22/03 (2006.01) C23C 22/56 (2006.01)**

[25] EN

[54] **METAL SURFACE COATINGS FOR IMPROVING BOND PERFORMANCE AND METHODS OF MAKING THE SAME**

[54] **REVETEMENTS DE SURFACE METALLIQUE POUR L'AMELIORATION DE PERFORMANCES DE LIAISON ET PROCEDES DE FABRICATION DE CEUX-CI**

[72] BASSI, CORRADO, CH

[72] BERNER, MICHELE EDITH, US

[72] GAAN, SABYASACHI, CH

[72] SCHMUTZ, PATRIK, CH

[71] NOVELIS INC., US

[71] EMPA, SWISS FEDERAL
LABORATORIES FOR MATERIALS
SCIENCE AND TECHNOLOGY, CH

[85] 2022-01-31

[86] 2020-07-07 (PCT/US2020/041042)

[87] (WO2021/055076)

[30] US (62/901,966) 2019-09-18

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[21] **3,146,453**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSESSING A TARGET MOLECULE**
[54] **SYSTEMES ET METHODES D'EVALUATION D'UNE MOLECULE CIBLE**
[72] IVANOV, IGOR CONSTANTIN, US
[72] TIAN, HUI, US
[71] AXBIO INC., US
[85] 2022-01-31
[86] 2020-07-29 (PCT/US2020/044089)
[87] (WO2021/021944)
[30] US (62/881,254) 2019-07-31

[21] **3,146,455**
[13] A1

[51] **Int.Cl. B65D 85/84 (2006.01) B65D 85/808 (2006.01)**
[25] EN
[54] **LIQUID PODS FOR RECIRCULATING WATER SYSTEMS**
[54] **CAPSULES DE LIQUIDE POUR SYSTEMES D'EAU A RECIRCULATION**
[72] SAYRE, CURTIS, US
[72] SWANSON, ANJELICA, US
[72] WEBER, JOHN, US
[72] WOOTEN, JORDAN, US
[71] BIO-LAB, INC., US
[85] 2022-01-31
[86] 2020-08-04 (PCT/US2020/044855)
[87] (WO2021/026133)
[30] US (62/883,146) 2019-08-06

[21] **3,146,457**
[13] A1

[51] **Int.Cl. A44B 18/00 (2006.01) B32B 7/06 (2019.01) B32B 7/12 (2006.01) B32B 27/10 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **BIODEGRADABLE FASTENER**
[54] **ATTACHE BIODEGRADABLE**
[72] HELSETH, JAMES R., US
[72] BENSON, DAVID J., US
[71] TWIST-EASE, INC., US
[85] 2022-01-31
[86] 2020-07-30 (PCT/US2020/044194)
[87] (WO2021/022007)
[30] US (62/880,765) 2019-07-31

[21] **3,146,459**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61P 21/02 (2006.01) A61P 39/06 (2006.01) C07D 239/95 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 471/04 (2006.01) C07D 491/107 (2006.01)**
[25] EN
[54] **2-AMINOQUINAZOLINONE DERIVATIVE**
[54] **DERIVE DE 2-AMINOQUINAZOLINONE**
[72] FURUTA, TOMOYUKI, JP
[71] SUMITOMO DAINIPPON PHARMA CO., LTD., JP
[85] 2022-01-31
[86] 2020-08-28 (PCT/JP2020/032622)
[87] (WO2021/039968)
[30] JP (2019-158612) 2019-08-30

[21] **3,146,460**
[13] A1

[51] **Int.Cl. A01N 25/30 (2006.01) A01N 37/34 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **FUNGICIDE COMPOSITION**
[54] **COMPOSITION FONGICIDE**
[72] BERNARDINI, MARCO, IT
[72] BORGIO, FRANCESCA, IT
[72] RAPETTI, CRISTINA, IT
[72] VALIERI, GIANLUCA, ES
[71] SIPCAM OXON S.P.A., IT
[85] 2022-01-31
[86] 2020-08-05 (PCT/IB2020/057377)
[87] (WO2021/024189)
[30] IT (102019000014445) 2019-08-08

[21] **3,146,461**
[13] A1

[51] **Int.Cl. B01D 19/04 (2006.01)**
[25] EN
[54] **A METHOD FOR PREPARING A FOAM CONTROL COMPOSITION IN A GRANULAR OR A POWDER FORM**
[54] **PROCEDE DE PREPARATION D'UNE COMPOSITION DE REGULATION DE MOUSSE SOUS FORME DE GRANULES OU DE POUDRE**
[72] GARRIS, JOHN, US
[72] HALE, MICHAEL, US
[72] TIMMONS, MATTHEW, US
[71] ELKEM SILICONES USA CORP., US
[85] 2022-01-31
[86] 2020-08-11 (PCT/US2020/045772)
[87] (WO2021/030352)
[30] US (62/886,666) 2019-08-14

[21] **3,146,463**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) C07C 69/40 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **DRUG CONTAINING TARGETING LIPOSOMES**
[54] **LIPOSOMES DE CIBLAGE CONTENANT UN MEDICAMENT**
[72] KLEIN, JOSEPH YESHAYAHU, IL
[71] NEXTAR CHEMPHARMA SOLUTIONS LTD., IL
[85] 2022-01-31
[86] 2020-08-31 (PCT/IL2020/050946)
[87] (WO2021/038573)
[30] US (62/894,794) 2019-09-01

PCT Applications Entering the National Phase

[21] **3,146,464**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01) C07K 14/005 (2006.01)**

[25] EN

[54] **ANTIGEN SPECIFIC IMMUNOTHERAPY FOR COVID-19 FUSION PROTEINS AND METHODS OF USE**

[54] **IMMUNOTHERAPIE SPECIFIQUE D'UN ANTIGENE POUR DES PROTEINES DE FUSION DE COVID-19 ET PROCEDES D'UTILISATION**

[72] ZION, TODD C., US

[72] LANCASTER, THOMAS M., US

[72] SATHIYASEELAN, THILLAINAYAGAM, US

[72] HUANG, KEXIN, US

[71] AKSTON BIOSCIENCES CORPORATION, US

[85] 2022-01-31

[86] 2021-04-09 (PCT/US2021/026577)

[87] (WO2021/207599)

[30] US (63/008,497) 2020-04-10

[30] US (63/008,503) 2020-04-10

[30] US (63/008,509) 2020-04-10

[30] US (63/008,515) 2020-04-10

[30] US (63/041,574) 2020-06-19

[30] US (63/041,579) 2020-06-19

[30] US (63/041,582) 2020-06-19

[30] US (63/041,584) 2020-06-19

[30] US (63/048,939) 2020-07-07

[30] US (63/068,775) 2020-08-21

[30] US (63/068,805) 2020-08-21

[30] US (63/068,843) 2020-08-21

[30] US (63/068,894) 2020-08-21

[30] US (63/068,911) 2020-08-21

[21] **3,146,466**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 31/00 (2006.01)**

[25] EN

[54] **AMMONIA AS A PROCESSING AID FOR SPRAYED SOLID DISPERSIONS**

[54] **AMMONIAC EN TANT QU'AUXILIAIRE DE TRAITEMENT POUR DES DISPERSIONS SOLIDES PULVERISEES**

[72] MILLER, WARREN K., BE

[72] MORGEN, MICHAEL M., BE

[71] CAPSUGEL BELGIUM NV, BE

[85] 2022-01-31

[86] 2020-08-11 (PCT/IB2020/057547)

[87] (WO2021/028832)

[30] US (62/887,471) 2019-08-15

[21] **3,146,467**
[13] A1

[51] **Int.Cl. C11D 11/00 (2006.01) C11D 1/825 (2006.01) C11D 3/37 (2006.01) C11D 17/00 (2006.01) C11D 17/04 (2006.01)**

[25] EN

[54] **CLEANING COMPOSITION**

[54] **COMPOSITION DE NETTOYAGE**

[72] SHERRY, ALAN EDWARD, US

[72] POLICICCHIO, NICOLA JOHN, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2022-01-31

[86] 2020-08-17 (PCT/US2020/070420)

[87] (WO2021/035247)

[30] EP (19192589.0) 2019-08-20

[21] **3,146,469**
[13] A1

[51] **Int.Cl. B60C 9/06 (2006.01) B60C 9/09 (2006.01) B60C 15/00 (2006.01) B60C 15/06 (2006.01)**

[25] EN

[54] **BICYCLES TYRE**

[54] **PNEU POUR BICYCLETTES**

[72] GALLI, FILIPPO, IT

[72] TOMIATI, NICOLO, IT

[72] MATRASCIA, GIUSEPPE, IT

[71] PIRELLI TYRE S.P.A., IT

[85] 2022-01-31

[86] 2020-08-06 (PCT/IB2020/057425)

[87] (WO2021/024215)

[30] IT (102019000014400) 2019-08-08

[21] **3,146,471**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) A61P 39/00 (2006.01)**

[25] EN

[54] **BIOPHARMACUETICAL COMPOSITIONS AND RELATED METHODS**

[54] **COMPOSITIONS BIOPHARMACEUTIQUES ET PROCEDES ASSOCIES**

[72] KRANZ, JAMES K., US

[72] MOLLOY, MICHAEL JOSEPH, GB

[72] RINELLA, JR. JOSEPH V., US

[72] SCHMIDT, ELIZABETH RAE, US

[72] SCHUESSLER, HILLARY AMBER, US

[72] SHAH, TEJASH, GB

[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB

[85] 2022-01-31

[86] 2020-07-31 (PCT/IB2020/057267)

[87] (WO2021/024133)

[30] US (62/883,451) 2019-08-06

[30] US (62/948,432) 2019-12-16

[30] US (62/984,110) 2020-03-02

[21] **3,146,472**
[13] A1

[51] **Int.Cl. B60C 9/06 (2006.01) B60C 9/09 (2006.01) B60C 15/00 (2006.01) B60C 15/06 (2006.01)**

[25] EN

[54] **BICYCLES TYRE**

[54] **PNEU DE BICYCLETTE**

[72] TOMIATI, NICOLO, IT

[72] MATRASCIA, GIUSEPPE, IT

[72] GALLI, FILIPPO, IT

[71] PIRELLI TYRE S.P.A., IT

[85] 2022-01-31

[86] 2020-08-06 (PCT/IB2020/057423)

[87] (WO2021/024213)

[30] IT (102019000014394) 2019-08-08

Demandes PCT entrant en phase nationale

[21] **3,146,474**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING OR PREVENTING CANCERS INVOLVING THE ADMINISTRATION OF ANTI-CCR5 RECEPTOR AGENTS**

[54] **METHODES DE TRAITEMENT OU DE PREVENTION DE CANCERS COMPRENANT L'ADMINISTRATION D'AGENTS ANTI-RECEPTEUR CCR5**

[72] BURGER, DENIS, US

[72] KELLY, SCOTT, US

[71] CYTODYN INC., US

[85] 2022-01-31

[86] 2020-07-31 (PCT/US2020/044616)

[87] (WO2021/026028)

[30] US (62/882,353) 2019-08-02

[30] US (63/047,693) 2020-07-02

[21] **3,146,475**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/135 (2006.01) A61K 47/02 (2006.01) A61K 47/26 (2006.01) A61K 47/32 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61K 47/40 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL FORMULATION**

[54] **FORMULATION PHARMACEUTIQUE**

[72] BOYER, SCOTT, SE

[72] HUBINETTE, FREDRIK, SE

[71] KLARIA PHARMA HOLDING AB, SE

[85] 2022-01-31

[86] 2020-08-27 (PCT/EP2020/073940)

[87] (WO2021/037960)

[30] GB (1912505.3) 2019-08-30

[21] **3,146,476**
[13] A1

[51] **Int.Cl. G06F 11/36 (2006.01) H03M 7/30 (2006.01)**

[25] EN

[54] **INTERACTIVE TESTING PLATFORM BASED ON COMPUTATIONAL CAUSAL INFERENCE AND AVERAGE AND CONDITIONAL AVERAGE TREATMENT EFFECT**

[54] **PLATEFORME D'ESSAI INTERACTIVE S'APPUYANT SUR UNE INFERENCE CAUSALE COMPUTATIONNELLE ET UN EFFET MOYEN/MOYEN CONDITIONNEL DE TRAITEMENT**

[72] WONG, JEFFREY, US

[72] MCFARLAND, COLIN, US

[72] WARDROP, MATTHEW, US

[72] DIAMANTOPOULOS, NIKOLAOS, US

[72] LACERDA DE MIRANDA, PABLO, US

[72] MAO, TOBIAS, US

[72] FORSELL, ESKIL, US

[72] BECKLEY, JULIE, US

[71] NETFLIX, INC., US

[85] 2022-01-31

[86] 2020-08-26 (PCT/US2020/048059)

[87] (WO2021/041582)

[30] US (62/892,458) 2019-08-27

[30] US (62/892,466) 2019-08-27

[30] US (62/940,813) 2019-11-26

[30] US (62/975,081) 2020-02-11

[30] US (63/030,666) 2020-05-27

[30] US (63/052,374) 2020-07-15

[30] US (17/003,523) 2020-08-26

[21] **3,146,477**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **USE OF SEPIAPTERIN AND METABOLITES THEREOF TO TREAT RADIATION EXPOSURE**

[54] **UTILISATION DE SEPIAPTERINE ET DE METABOLITES DE CELLE-CI POUR TRAITER UNE EXPOSITION A UN RAYONNEMENT**

[72] MEZZAROMA, ELEONORA, US

[72] RABENDER, CHRISTOPHER, US

[72] MIKKELSEN, ROSS, US

[72] YAKOVLEV, VASILY, US

[72] SMITH, NEIL, US

[71] PTC THERAPEUTICS MP, INC., US

[71] VIRGINIA COMMONWEALTH UNIVERSITY, US

[85] 2022-01-31

[86] 2020-08-05 (PCT/US2020/045026)

[87] (WO2021/026247)

[30] US (62/882,937) 2019-08-05

[21] **3,146,515**
[13] A1

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

[25] EN

[54] **PROLIPOSOMAL TESTOSTERONE UNDECANOATE FORMULATIONS**

[54] **FORMULATIONS D'UNDECANOATE DE TESTOSTERONE PROLIPOSOMALES**

[72] KADAJJI, VEERAN GOWDA, US

[72] VENKATESAN, NATARAJAN, US

[72] SWARNAKAR, NITIN K., US

[72] HONG, TERESA, US

[72] THIRUCOTE, RAMACHANDRAN, US

[72] BETAGERI, GURU V., US

[71] TESORX PHARMA, LLC, US

[85] 2022-01-31

[86] 2020-08-10 (PCT/US2020/045607)

[87] (WO2021/030260)

[30] US (62/884,919) 2019-08-09

PCT Applications Entering the National Phase

[21] **3,146,525**
[13] A1

[51] **Int.Cl. C12M 1/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SAMPLE PREPARATION, DATA GENERATION, AND PROTEIN CORONA ANALYSIS**
[54] **SYSTEMES ET PROCEDES DE PREPARATION D'ECHANTILLONS, GENERATION DE DONNEES ET ANALYSE DE LA CORONA PROTEIQUE**
[72] MANNING, WILLIAM, US
[72] KIM, YOUNG, US
[72] KWAN-LEONG, BRANDON, US
[72] LIOU, HOPE, US
[72] ZHAO, XIAOYAN, US
[71] SEER, INC., US
[85] 2022-02-01
[86] 2020-08-04 (PCT/US2020/044908)
[87] (WO2021/026172)
[30] US (62/883,107) 2019-08-05

[21] **3,146,532**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) B01L 3/02 (2006.01) C12M 1/26 (2006.01)**
[25] EN
[54] **DISPOSABLE DEVICE FOR VENTING A SEALED CONTAINER AND ALIQUOTING THEREFROM**
[54] **DISPOSITIF JETABLE POUR LA MISE A L'AIR LIBRE D'UN RECIPIENT SCELLE ET ALIQUOTAGE A PARTIR DE CE DERNIER**
[72] FEIJEN, FRANCISCUS HERMANNUS, NL
[72] ARMSTRONG, ROBERT EDWARD, US
[72] LENTZ, AMMON DAVID, US
[72] POHL, BRENT RONALD, US
[71] BD KIESTRA B.V., NL
[85] 2022-02-01
[86] 2020-08-05 (PCT/US2020/045030)
[87] (WO2021/026249)
[30] US (62/883,427) 2019-08-06
[30] US (62/907,060) 2019-09-27

[21] **3,146,542**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 47/14 (2017.01)**
[25] EN
[54] **METHOD OF PREPARING A SOLID DOSAGE FORM AND A LUBRICANT**
[54] **PROCEDE DE PREPARATION D'UNE FORME POSOLOGIQUE SOLIDE ET D'UN LUBRIFIANT**
[72] GUHA, ASHISH, IN
[72] JAIN, VINAY, IN
[72] JOSHI, SHRADDHA, IN
[72] KUNTZ, THERESIA, DE
[72] MAHLMEISTER, CHRISTIAN, DE
[72] HERBEAUX, JEAN-LUC, PT
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-02-01
[86] 2020-08-07 (PCT/EP2020/072212)
[87] (WO2021/023848)
[30] IN (201941032091) 2019-08-08
[30] EP (19202419.8) 2019-10-10

[21] **3,146,530**
[13] A1

[51] **Int.Cl. A61K 38/10 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **APPLICATION OF POLYPEPTIDE OR DERIVATIVE THEREOF**
[54] **APPLICATION D'UN POLYPEPTIDE OU D'UN DERIVE DE DERNIER**
[72] WEI, DE, CN
[72] LI, XIAOMEI, CN
[72] DING, YI, CN
[72] XIAO, LING, CN
[71] CHENGDU HUITAI BIOMEDICINE CO., LTD., CN
[85] 2022-02-01
[86] 2020-08-07 (PCT/CN2020/107686)
[87] (WO2021/027704)
[30] CN (201910743680.9) 2019-08-13

[21] **3,146,534**
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A01N 43/20 (2006.01) C07D 407/06 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 493/04 (2006.01)**
[25] EN
[54] **HERBICIDAL AMIDES**
[54] **AMIDES HERBICIDES**
[72] WITSCHER, MATTHIAS, DE
[72] GEERDINK, DANNY, DE
[72] SEITZ, THOMAS, DE
[72] KRAEMER, GERD, DE
[72] NEWTON, TREVOR WILLIAM, DE
[72] HOLLENBACH, EVA, DE
[71] BASF SE, DE
[85] 2022-02-01
[86] 2020-07-28 (PCT/EP2020/071225)
[87] (WO2021/023572)
[30] EP (19190760.9) 2019-08-08

[21] **3,146,547**
[13] A1

[51] **Int.Cl. A61B 90/50 (2016.01) A61B 50/20 (2016.01) A61B 50/24 (2016.01) A61B 90/57 (2016.01)**
[25] EN
[54] **DOCK FOR SURGICAL EQUIPMENT HOLDER**
[54] **STATION D'ACCUEIL POUR SUPPORT D'EQUIPEMENT CHIRURGICAL**
[72] SAUER, JUDE S., US
[72] BOSECK, BENJAMIN JAMES, US
[72] HAMMOND, JOHN F., US
[72] MARTELLARO, ANGELO JOHN, US
[72] WRONA, MATTHEW, US
[71] LSI SOLUTIONS, INC., US
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[30] US (62/882,667) 2019-08-05

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[13] A1

[51] **Int.Cl. B65B 1/22 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR VIBRATION OF CONTAINERS**
[54] **DISPOSITIFS ET PROCEDES DE VIBRATION DE RECIPIENTS**
[72] STRONG, DAVID A., US
[71] STRONG, DAVID A., US
[85] 2022-02-01
[86] 2020-08-11 (PCT/US2020/045728)
[87] (WO2021/030325)
[30] US (62/885,642) 2019-08-12
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[21] **3,146,561**
[13] A1

[51] **Int.Cl. B05C 17/005 (2006.01) B05C 17/015 (2006.01) B65D 83/00 (2006.01)**
[25] EN
[54] **CARTRIDGE ASSEMBLY, SLEEVE, SYSTEM AND METHOD OF ASSEMBLING A CARTRIDGE ASSEMBLY**
[54] **ENSEMBLE CARTOUCHE, MANCHON, SYSTEME ET PROCEDE D'ASSEMBLAGE D'ENSEMBLE CARTOUCHE**
[72] BODENMULLER, TOBIAS, CH
[72] RICHTER, MARCEL, CH
[72] LAVELANET, RICHARD, CH
[71] SULZER MIXPAC AG, CH
[85] 2022-02-01
[86] 2020-07-28 (PCT/EP2020/071214)
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[30] EP (19189791.7) 2019-08-02
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[21] **3,146,564**
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01) A61B 17/15 (2006.01) A61B 17/64 (2006.01)**
[25] EN
[54] **BI-PLANAR INSTRUMENT FOR BONE CUTTING AND JOINT REALIGNMENT PROCEDURE**
[54] **INSTRUMENT BI-PLANAIRE POUR INTERVENTION DE COUPE OSSEUSE ET DE REALIGNEMENT D'ARTICULATION**
[72] MAY, JASON, US
[72] SANTROCK, ROBERT D., US
[72] SCANLAN, SEAN F., US
[72] TREACE, JOHN T., US
[72] FERGUSON, JOE W., US
[72] MCALEER, JODY, US
[72] HATCH, DANIEL J., US
[71] TREACE MEDICAL CONCEPTS, INC., US
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[30] US (62/883,649) 2019-08-07

[21] **3,146,567**
[13] A1

[51] **Int.Cl. E21B 43/10 (2006.01)**
[25] EN
[54] **SCREEN APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE FILTRATION**
[72] MCKAY, EILIDH JEAN, GB
[72] HARPER, DUNCAN ALEXANDER, GB
[71] SWELLFIX UK LIMITED, GB
[85] 2022-02-01
[86] 2020-08-12 (PCT/EP2020/072633)
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[30] GB (1911536.9) 2019-08-12

[21] **3,146,569**
[13] A1

[51] **Int.Cl. A61M 25/01 (2006.01) A61M 25/00 (2006.01)**
[25] EN
[54] **RE-ENTRY CATHETER**
[54] **CATHETER DE RE-ENTREE**
[72] BOUASAYSY, OUTHIT, US
[72] RIZK, ISA, US
[72] FULKERSON, JOHN, US
[72] SAAB, FADI, US
[71] REFLOW MEDICAL, INC., US
[85] 2022-02-01
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[87] (WO2021/030622)
[30] US (62/886,239) 2019-08-13

[21] **3,146,571**
[13] A1

[51] **Int.Cl. A01B 29/04 (2006.01) A01B 49/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING PLUGGING OF BASKET ASSEMBLIES OF AN AGRICULTURAL IMPLEMENT**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE L'OBTURATION D'ENSEMBLES PANIER D'UN EQUIPEMENT AGRICOLE**
[72] COZZA, MICHAEL R., US
[72] GLOVIER, SCOTT, US
[72] ESPINOSA, RAUL, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-02-01
[86] 2020-08-13 (PCT/US2020/046051)
[87] (WO2021/030519)
[30] US (16/541,319) 2019-08-15

[21] **3,146,575**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01)**
[25] EN
[54] **SUPPORT CATHETER**
[54] **CATHETER DE SUPPORT**
[72] BOUASAYSY, OUTHIT, US
[72] RIZK, ISA, US
[72] FULKERSON, JOHN, US
[71] REFLOW MEDICAL, INC., US
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[86] 2020-08-13 (PCT/US2020/046219)
[87] (WO2021/030611)
[30] US (62/886,229) 2019-08-13

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[13] A1

[51] **Int.Cl. H01L 21/66 (2006.01) H01L 21/8234 (2006.01)**

[25] EN

[54] **SEMICONDUCTING DEVICES, BACK END OF LINE PORTIONS FOR SEMICONDUCTING DEVICES, AND DIELECTRIC MATERIALS INCORPORATING DEUTERIUM**

[54] **DISPOSITIFS A SEMI-CONDUCTEURS, EXTREMITÉ ARRIÈRE DE PARTIES DE LIGNE DE DISPOSITIFS A SEMI-CONDUCTEURS, ET MATERIAUX DIELECTRIQUES INCORPORANT DU DEUTERIUM**

[72] LENAHAH, PATRICK, US

[72] LLOYD, JAMES, US

[72] MAHMUD, NIAZ, US

[71] THE RESEARCH FOUNDATION FOR SUNY, US

[85] 2022-02-01

[86] 2020-08-03 (PCT/US2020/044695)

[87] (WO2021/026049)

[30] US (62/882,335) 2019-08-02

[21] **3,146,590**
[13] A1

[51] **Int.Cl. B60S 1/00 (2006.01) B60S 1/62 (2006.01) B60S 1/68 (2006.01)**

[25] EN

[54] **ADJUSTABLE ROCK KNOCKER BRACKET**

[54] **SUPPORT REGLABLE DE BRISE-ROCHE**

[72] REYNOLDS, FREDERICK J., US

[72] REYNOLDS, SETH JOSEPH EARL, US

[71] AUSTIN ENGINEERING USA SERVICES, INC., US

[85] 2022-02-01

[86] 2020-09-23 (PCT/US2020/052105)

[87] (WO2021/061700)

[30] US (62/907,429) 2019-09-27

[21] **3,146,591**
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) A61K 35/761 (2015.01) A61K 31/7088 (2006.01) A61K 35/76 (2015.01)**

[25] EN

[54] **T-CELL MODULATORY POLYPEPTIDES AND METHODS OF USE THEREOF**

[54] **POLYPEPTIDES MODULATEURS DE LYMPHOCYTES T ET PROCEDES D'UTILISATION**

[72] SEIDEL III, RONALD D., US

[72] CHAPARRO, RODOLFO J., US

[72] ROSS, JOHN F., US

[72] CEMERSKI, SASO, US

[71] CUE BIOPHARMA, INC., US

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[86] 2020-09-17 (PCT/US2020/051255)

[87] (WO2021/055594)

[30] US (62/903,441) 2019-09-20

[30] US (62/990,693) 2020-03-17

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[13] A1

[51] **Int.Cl. C09B 55/00 (2006.01) C09B 69/00 (2006.01) C09K 11/06 (2006.01) G01N 33/533 (2006.01)**

[25] FR

[54] **USE OF FLUOROPHORE COMPOUNDS OF THE AZA-BODIPIY TYPE AS CONTRAST AGENTS IN THE SHORT WAVE INFRARED REGION**

[54] **UTILISATION DE COMPOSES FLUOROPHORES DE TYPE AZA-BODIPIY COMME AGENTS DE CONTRASTE DANS L'INFRAROUGE TRES LOINTAIN**

[72] SANCEY, LUCIE, FR

[72] PLIQUETT, JACQUES, DE

[72] JOSSERAND, VERONIQUE, FR

[72] LE GUEVEL, XAVIER, FR

[72] COLL, JEAN-LUC, FR

[72] GOZE, CHRISTINE, FR

[72] BODIO, EWEN, FR

[72] BUSSEY, BENOIT, FR

[72] GODARD, AMELIE, FR

[72] KALOT, GHADIR, FR

[72] DENAT, FRANCK, FR

[71] UNIVERSITE GRENOBLE ALPES, FR

[71] UNIVERSITE DE BOURGOGNE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR

[85] 2022-02-01

[86] 2020-08-04 (PCT/EP2020/071865)

[87] (WO2021/023731)

[30] EP (19315089.3) 2019-08-08

[21] **3,146,593**
[13] A1

[51] **Int.Cl. C12P 19/18 (2006.01)**

[25] EN

[54] **IMPROVED OLIGOSACCHARIDE PRODUCTION IN YEAST**

[54] **PRODUCTION D'OLIGOSACCHARIDE AMELIOREE DANS UNE LEVURE**

[72] WALTER, JESSICA, US

[72] PINEL, DOMINIC, US

[71] AMYRIS, INC., US

[85] 2022-02-01

[86] 2020-08-13 (PCT/US2020/046227)

[87] (WO2021/030617)

[30] US (62/886,074) 2019-08-13

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[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/4174 (2006.01) A61K 31/7048 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CRYPTOCOCCUS INFECTIONS**

[54] **METHODS DE TRAITEMENT D'INFECTIONS A CRYPTOCOCCUS**

[72] LU, RUYING, US

[72] MATKOVITS, THERESA, US

[72] MANNINO, RAPHAEL J., US

[71] MATINAS BIOPHARMA NANOTECHNOLOGIES, INC., US

[85] 2022-02-01

[86] 2020-08-13 (PCT/US2020/046114)

[87] (WO2021/030553)

[30] US (62/886,118) 2019-08-13

[30] US (62/916,482) 2019-10-17

[30] US (62/962,427) 2020-01-17

[30] US (63/011,091) 2020-04-16

[21] **3,146,602**
[13] A1

[51] **Int.Cl. C08C 1/04 (2006.01) C08C 2/02 (2006.01) C08C 2/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROCESSING GUAYULE RUBBER**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT DE CAOUTCHOUC DE GUAYULE**

[72] COLVIN, HOWARD, US

[72] SAUTY, NICOLAS, US

[71] COOPER TIRE & RUBBER COMPANY, US

[85] 2022-02-01

[86] 2020-08-21 (PCT/US2020/047323)

[87] (WO2021/041180)

[30] US (62/890,924) 2019-08-23

[21] **3,146,604**
[13] A1

[51] **Int.Cl. C25C 1/12 (2006.01) C25C 1/20 (2006.01) C25C 7/02 (2006.01) C25C 7/06 (2006.01) C25F 3/16 (2006.01)**

[25] EN

[54] **METAL RECOVERY FROM LEAD CONTAINING ELECTROLYTES**

[54] **RECUPERATION DE METAUX A PARTIR D'ELECTROLYTES CONTENANT DU PLOMB**

[72] MOHANTA, SAMARESH, US

[72] REILL, JOSHUA, US

[72] TAECKER, BENJAMIN SOL, US

[72] HOKE, JEFFERY, US

[72] DOUGHERTY, BRIAN JAMES, US

[72] LIAO, JIAQI, US

[71] AQUA METALS INC., US

[85] 2022-02-01

[86] 2020-07-28 (PCT/US2020/043835)

[87] (WO2021/021786)

[30] US (62/881,743) 2019-08-01

[21] **3,146,606**
[13] A1

[51] **Int.Cl. G06F 40/242 (2020.01) G06F 9/451 (2018.01) G06F 40/211 (2020.01) G06F 40/279 (2020.01) G06F 3/048 (2013.01)**

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[54] **DEFINITION RETRIEVAL AND DISPLAY**

[54] **EXTRACTION ET AFFICHAGE DE DEFINITIONS**

[72] LALL, NARESH, US

[72] DECOTIIS, WILLIAM, US

[71] SPECTACLES LLC, US

[85] 2022-02-01

[86] 2020-07-20 (PCT/US2020/042826)

[87] (WO2021/025854)

[30] US (62/882,197) 2019-08-02

[30] US (16/932,498) 2020-07-17

[21] **3,146,607**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61P 25/00 (2006.01) A61P 35/00 (2006.01) C07C 69/40 (2006.01) C07K 7/06 (2006.01)**

[25] EN

[54] **CANNABINOID CONTAINING TARGETING LIPOSOMES**

[54] **LIPOSOMES DE CIBLAGE CONTENANT DES CANNABINOIDES**

[72] KLEIN, JOSEPH YESHAYAHU, IL

[71] NEXTAGE THERAPEUTICS LTD., IL

[85] 2022-02-01

[86] 2020-08-31 (PCT/IL2020/050947)

[87] (WO2021/038574)

[30] US (62/894,793) 2019-09-01

[21] **3,146,608**
[13] A1

[51] **Int.Cl. A61H 1/02 (2006.01) A61H 23/02 (2006.01) A63B 21/00 (2006.01) A63B 21/005 (2006.01) A63B 21/04 (2006.01) A63B 21/055 (2006.01) A63B 21/16 (2006.01) A63B 23/035 (2006.01) A63B 24/00 (2006.01) A63B 71/06 (2006.01)**

[25] EN

[54] **MIRROR THERAPY DEVICE**

[54] **DISPOSITIF DE THERAPIE PAR LE MIROIR**

[72] ROBERTS, DAVID, IE

[72] MONAGHAN, KENNETH, IE

[72] EHRENSBERGER, MONIKA, IE

[72] SIMPSON, DANIEL, IE

[71] INSTITUTE OF TECHNOLOGY SLIGO, IE

[85] 2022-02-01

[86] 2020-07-31 (PCT/EP2020/071737)

[87] (WO2021/023677)

[30] GB (1911092.3) 2019-08-02

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[21] **3,146,609**
[13] A1

[51] **Int.Cl. H04W 80/00 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SESSION MANAGEMENT**
[54] **PROCEDE ET APPAREIL DE GESTION DE SESSION**
[72] WEI, ZHANSHENG, CN
[72] HE, YINGJIAO, CN
[72] ZHU, JINYIN, CN
[72] YANG, YONG, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2022-02-01
[86] 2020-08-04 (PCT/CN2020/106883)
[87] (WO2021/023191)
[30] CN (PCT/CN2019/099298) 2019-08-05

[21] **3,146,611**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) B64G 1/10 (2006.01)**
[25] EN
[54] **MULTI-PATHWAY SATELLITE COMMUNICATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE COMMUNICATION PAR SATELLITE MULTIVOIE**
[72] MIRANDA, HENRIQUE, US
[72] DEVARAJ, KIRUTHIKA, US
[71] PLANET LABS, INC., US
[85] 2022-02-01
[86] 2020-08-03 (PCT/US2020/044759)
[87] (WO2021/022253)
[30] US (16/529,299) 2019-08-01

[21] **3,146,613**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **LONGITUDINAL DISPLAY OF CORONARY ARTERY CALCIUM BURDEN**
[54] **AFFICHAGE LONGITUDINAL DE LA CHARGE CALCIQUE D'UNE ARTERE CORONAIRE**
[72] AMIS, GREGORY PATRICK, US
[72] GOPINATH, AJAY, US
[72] HOEVELER, MARK, US
[71] LIGHTLAB IMAGING, INC., US
[85] 2022-02-01
[86] 2020-08-05 (PCT/US2020/044995)
[87] (WO2021/026224)
[30] US (62/883,066) 2019-08-05

[21] **3,146,610**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/00 (2006.01) A61K 9/50 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/32 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **ADHESIVE DRUG DELIVERY MICROPARTICLES AND A PRODUCT COMPRISING THEREOF**
[54] **MICROPARTICULES D'ADMINISTRATION DE MEDICAMENT ADHESIF ET PRODUIT LES COMPRENANT**
[72] PENHASI, ADEL, IL
[71] AMD PHARMA LTD., IL
[85] 2022-02-01
[86] 2020-08-16 (PCT/IL2020/050900)
[87] (WO2021/033180)
[30] US (62/887,816) 2019-08-16

[21] **3,146,612**
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A23L 33/115 (2016.01) A61K 9/20 (2006.01) A61K 31/202 (2006.01)**
[25] EN
[54] **DOWN STREAMING PROCESS FOR THE PRODUCTION OF POLYUNSATURATED FATTY ACID SALTS**
[54] **PROCEDE DE DIFFUSION EN CONTINU POUR LA PRODUCTION DE SELS D'ACIDES GRAS POLYINSATURES**
[72] GUHA, ASHISH, IN
[72] KUNTZ, THERESIA, DE
[72] EMRICH, ANDREAS, DE
[72] MAHLMEISTER, CHRISTIAN, DE
[72] PETERS, JOHANNA, DE
[72] KNAUP, GUNTER, DE
[72] LOTZ, JOERG, DE
[72] DIEHL, THOMAS, DE
[72] JAIN, VINAY, IN
[72] HARTMANN, EDUARD, DE
[72] LATINOVIC, MILAN (DECEASED), DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-02-01
[86] 2020-08-07 (PCT/EP2020/072213)
[87] (WO2021/023849)
[30] IN (201941032090) 2019-08-08
[30] EP (19202421.4) 2019-10-10

[21] **3,146,614**
[13] A1

[51] **Int.Cl. B65D 88/12 (2006.01) B65D 90/34 (2006.01)**
[25] EN
[54] **TRANSPORT CONTAINER FOR CONCENTRATED HYDROGEN PEROXIDE**
[54] **RECIPIENT DE TRANSPORT POUR PEROXYDE D'HYDROGENE CONCENTRE**
[72] KONIG, BERNHARD, DE
[72] GLENNEBERG, JURGEN, DE
[72] CHRIST, PHILIPP, DE
[72] KUNKEL, ANNA, DE
[72] GOTTSCHLICH, BERND, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-02-01
[86] 2020-09-30 (PCT/EP2020/077350)
[87] (WO2021/069275)
[30] DE (20 2019 004 097.8) 2019-10-07

[21] **3,146,615**
[13] A1

[51] **Int.Cl. E04F 11/18 (2006.01) F16B 9/00 (2006.01)**
[25] EN
[54] **BRACKETS FOR STAIR RAILINGS**
[54] **SUPPORTS POUR RAMPES D'ESCALIER**
[72] WALKER, SIMON, CA
[72] LAWSON, CRAIG, CA
[72] YOUNG, CHARLES, CA
[72] MANTEI, ADAM, CA
[71] PEAK INNOVATIONS INC., CA
[85] 2022-02-01
[86] 2020-08-24 (PCT/CA2020/051155)
[87] (WO2021/030917)
[30] US (62/890,327) 2019-08-22

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[21] **3,146,616**
[13] A1

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

[25] EN

[54] **COMPOSITIONS AND METHODS OF TREATING LUPUS NEPHRITIS**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DU LUPUS NEPHRETIQUE**

[72] CASCINO, MATTHEW DOMINIC, US

[71] GENENTECH, INC., US

[85] 2022-02-01

[86] 2020-09-10 (PCT/US2020/050072)

[87] (WO2021/050645)

[30] US (62/899,706) 2019-09-12

[30] US (62/930,527) 2019-11-04

[30] US (62/931,032) 2019-11-05

[30] US (63/005,071) 2020-04-03

[21] **3,146,625**
[13] A1

[51] **Int.Cl. A61H 33/00 (2006.01) E04H 4/08 (2006.01)**

[25] EN

[54] **UNIVERSAL SYSTEM TO MECHANIZE A COVER LIFTER ON A SPA TUB**

[54] **SYSTEME UNIVERSEL POUR MECANISER UN DISPOSITIF DE LEVAGE DE COUVERCLE SUR UNE BAIGNOIRE A HYDROMASSAGE**

[72] TOURNAS, ANDREW, US

[72] TOURNAS, KYLE, US

[72] DIMARTINO, JASON, US

[71] HOT TUB PRODUCTS, LLC, US

[85] 2022-02-01

[86] 2020-07-30 (PCT/US2020/044239)

[87] (WO2021/025944)

[30] US (16/530,300) 2019-08-02

[21] **3,146,645**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 33/10 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **PARASITIC NEMATODE VACCINE**

[54] **VACCIN CONTRE LES NEMATODES PARASITES**

[72] BUCK, AMY, GB

[72] NEOPHYTOU, KYRIAKI, GB

[71] THE UNIVERSITY COURT OF THE UNIVERSITY OF EDINBURGH, GB

[85] 2022-02-02

[86] 2020-08-28 (PCT/GB2020/052079)

[87] (WO2021/038250)

[30] GB (1912528.5) 2019-08-30

[21] **3,146,655**
[13] A1

[51] **Int.Cl. A47B 96/14 (2006.01) E04B 2/60 (2006.01) E04B 2/62 (2006.01) E04B 2/78 (2006.01)**

[25] EN

[54] **BOARD CONNECTOR SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE CONNECTEUR DE PANNEAU**

[72] ZHANG, JASON, CN

[71] DYNAPORGE TRADING, LLC, US

[85] 2022-02-02

[86] 2020-08-18 (PCT/US2020/046836)

[87] (WO2021/034846)

[30] US (16/546,413) 2019-08-21

[21] **3,146,666**
[13] A1

[51] **Int.Cl. H04W 24/04 (2009.01) H04B 7/06 (2006.01)**

[25] EN

[54] **COMMUNICATION METHOD AND COMMUNICATIONS APPARATUS**

[54] **PROCEDE DE COMMUNICATION ET APPAREIL DE COMMUNICATION**

[72] ZHANG, DI, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2022-02-02

[86] 2020-07-30 (PCT/CN2020/105763)

[87] (WO2021/023090)

[30] CN (201910713406.7) 2019-08-02

[21] **3,146,672**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C07K 14/195 (2006.01) C12N 15/87 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **INCREASE IN CORN TRANSFORMATION EFFICACY BY THE N-TERMINUS OF A TALE**

[54] **AUGMENTATION DE L'EFFICACITE DE LA TRANSFORMATION DU MAIS PAR L'EXTREMITÉ N-TERMINALE D'UN EFFECTEUR TAL**

[72] PITT, THAQUORIS, US

[72] MCADAMS, SEAN, US

[72] PATEL, MINESH, US

[72] DUBOIS, MARY F., US

[72] NEUTEBOOM, LEENDERT W., US

[71] BASF PLANT SCIENCE COMPANY GMBH, DE

[85] 2022-02-02

[86] 2020-10-09 (PCT/EP2020/078451)

[87] (WO2021/069684)

[30] EP (19202802.5) 2019-10-11

[21] **3,146,674**
[13] A1

[51] **Int.Cl. B32B 3/06 (2006.01) E04F 15/02 (2006.01)**

[25] EN

[54] **A FLOOR ELEMENT FOR FORMING A FLOOR COVERING AND A FLOOR COVERING**

[54] **ELEMENT DE SOL DESTINE A FORMER UN REVETEMENT DE SOL ET REVETEMENT DE SOL**

[72] CASELLI, CLAUDIO, US

[72] PATKI, RAHUL, US

[71] DAL-TILE CORPORATION, US

[85] 2022-02-02

[86] 2020-09-14 (PCT/US2020/050613)

[87] (WO2021/055260)

[30] US (16/573,138) 2019-09-17

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[21] **3,146,683**
[13] A1

[51] **Int.Cl. C07D 277/32 (2006.01)**
[25] EN
[54] **PREPARATION OF 2-CHLORO-1-(2-CHLOROTHIAZOL-5-YL)ETHANONE**
[54] **PREPARATION DE 2-CHLORO-1-(2-CHLOROTHIAZOL-5-YL)ETHANONE**
[72] SHINDE, HARISH, IN
[72] KADUSKAR, RAHUL, IN
[72] KORADIN, CHRISTOPHER, DE
[72] MCLAUGHLIN, MARTIN JOHN, DE
[72] GOETZ, ROLAND, DE
[72] KHAMKAR, SUNIL, IN
[71] BASF SE, DE
[85] 2022-02-02
[86] 2020-09-28 (PCT/EP2020/077090)
[87] (WO2021/063880)
[30] EP (19201400.9) 2019-10-04
[30] EP (19204737.1) 2019-10-23

[21] **3,146,688**
[13] A1

[51] **Int.Cl. A23L 29/231 (2016.01) A23L 29/238 (2016.01) A23L 29/244 (2016.01) A23L 29/25 (2016.01) A23L 29/256 (2016.01) A23L 29/281 (2016.01) A23L 33/115 (2016.01) A23L 33/125 (2016.01) A61K 9/06 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61K 47/42 (2017.01) A61K 47/44 (2017.01)**
[25] EN
[54] **STABLE GEL COMPOSITION HAVING HIGH OIL CONTENT, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**
[54] **COMPOSITION DE GEL STABLE AYANT UNE TENEUR ELEVEE EN HUILE, SON PROCEDE DE PREPARATION ET SON APPLICATION**
[72] FANG, SUQIONG, CN
[72] ZHENG, YIRUI, CN
[72] CHEN, WENRONG, CN
[71] SIRIO PHARMA CO., LTD., CN
[85] 2022-02-02
[86] 2020-08-27 (PCT/CN2020/111647)
[87] (WO2021/037122)
[30] CN (201910806809.6) 2019-08-29

[21] **3,146,694**
[13] A1

[51] **Int.Cl. B29C 59/04 (2006.01) B29C 35/08 (2006.01) B29C 35/10 (2006.01) B29C 39/14 (2006.01) B29C 59/02 (2006.01)**
[25] EN
[54] **METHOD FOR TRANSFERRING AN EMBOSSED STRUCTURE TO THE SURFACE OF A COATING, AND COMPOSITE EMPLOYABLE AS EMBOSSEING MOLD**
[54] **PROCEDE POUR LE TRANSFERT D'UNE STRUCTURE GAUFREE SUR LA SURFACE D'UN REVETEMENT ET COMPOSITE POUVANT ETRE EMPLOYE EN TANT QUE MOULE DE GAUFRAGE**
[72] KRABENBORG, SVEN OLLE, DE
[72] BUSCHER, TIM, DE
[72] DUENNEWALD, JOERG, DE
[71] BASF COATINGS GMBH, DE
[85] 2022-02-02
[86] 2020-09-24 (PCT/EP2020/076751)
[87] (WO2021/058658)
[30] EP (19199453.2) 2019-09-25

[21] **3,146,695**
[13] A1

[51] **Int.Cl. H01F 27/32 (2006.01) G01N 27/02 (2006.01) H01F 27/28 (2006.01)**
[25] EN
[54] **PACKAGING TECHNIQUE FOR INDUCTIVE CONDUCTIVITY SENSORS**
[54] **TECHNIQUE D'ENCAPSULATION POUR CAPTEURS A CONDUCTIVITE PAR INDUCTION**
[72] REZANEZHAD GATABI, JAVAD, US
[71] R-WATER LLC, US
[85] 2022-02-02
[86] 2019-05-22 (PCT/US2019/018453)
[87] (WO2020/236129)

[21] **3,146,701**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 19/08 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SALT AND CRYSTAL FORMS OF AN ACTIVIN RECEPTOR-LIKE KINASE INHIBITOR**
[54] **FORMES SALINES ET CRISTALLINES D'UN INHIBITEUR DE KINASE DE TYPE RECEPTEUR DE L'ACTIVINE**
[72] MEDENDORP, CLARE, US
[72] MAZAIK, DEBRA, US
[72] WILKIE, GORDON, US
[72] WAETZIG, JOSHUA D., US
[72] HEINRICH, BRIAN, US
[72] MACEACHERN, LAUREN, CA
[72] SIEGEL, DOMINIK, CH
[72] OHMER, HARALD, CH
[72] JOHNSTON, STEVEN C., US
[71] BLUEPRINT MEDICINES CORPORATION, US
[85] 2022-02-02
[86] 2020-08-12 (PCT/US2020/045847)
[87] (WO2021/030386)
[30] US (62/885,977) 2019-08-13

[21] **3,146,702**
[13] A1

[51] **Int.Cl. C07K 14/015 (2006.01)**
[25] EN
[54] **AAV CAPSID VARIANTS FOR TARGETING HUMAN GLIOBLASTOMA CELLS**
[54] **VARIANTS DE CAPSIDES AAV POUR LE CIBLAGE DE CELLULES DE GLIOBLASTOME HUMAIN**
[72] ZOLOTUKHIN, SERGEI, US
[72] TRAN, DAVID, US
[72] KONDRATOV, OLEKSANDR, US
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
[85] 2022-02-02
[86] 2020-08-07 (PCT/US2020/045526)
[87] (WO2021/030225)
[30] US (62/884,716) 2019-08-09

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[21] **3,146,703**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **TERMINAL DEVICE, NETWORK NODE AND METHOD FOR FACILITATING TRANSMISSION OF LOGICAL CHANNELS OVER SIDELINK**
[54] **DISPOSITIF TERMINAL, NOEUD DE RESEAU ET PROCEDE DESTINE A FACILITER LA TRANSMISSION DE CANAUX LOGIQUES SUR UNE LIAISON LATERALE**
[72] ZHANG, ZHANG, CN
[72] ZHANG, CONGCHI, CN
[72] ORSINO, ANTONINO, FI
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2022-02-02
[86] 2020-08-04 (PCT/CN2020/106788)
[87] (WO2021/023181)
[30] CN (PCT/CN2019/099311) 2019-08-05

[21] **3,146,705**
[13] A1

[51] **Int.Cl. B07C 5/342 (2006.01)**
[25] FR
[54] **SORTING DEVICE FOR AGRICULTURAL PRODUCTS AND CORRESPONDING METHOD**
[54] **DISPOSITIF DE TRI POUR PRODUITS AGRICOLES, ET PROCEDE CORRESPONDANT**
[72] DUBRULLE, DAMIEN, FR
[72] SERRAT, HUGO, FR
[72] DESCHODT, THOMAS, FR
[72] JOURDAIN, GUILLAUME, FR
[72] LUU, DUC-ANH, FR
[71] ETS DUBRULLE, FR
[71] BILBERRY SAS, FR
[85] 2022-02-02
[86] 2020-06-25 (PCT/EP2020/067796)
[87] (WO2021/037417)
[30] FR (FR1909571) 2019-08-30

[21] **3,146,707**
[13] A1

[51] **Int.Cl. G10L 25/78 (2013.01) G11B 27/02 (2006.01) G10L 15/25 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CORRELATING SPEECH AND LIP MOVEMENT**
[54] **SYSTEMES ET PROCEDES POUR METTRE EN CORRELATION LA PAROLE ET LE MOUVEMENT DES LEVRES**
[72] WANG, YADONG, US
[72] RAO, SHILPA JOIS, US
[71] NETFLIX, INC., US
[85] 2022-02-02
[86] 2021-06-22 (PCT/US2021/038515)
[87] (WO2021/262737)
[30] US (16/911,247) 2020-06-24

[21] **3,146,711**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING IMAGES OF SLIDES TO INFER BIOMARKERS**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'IMAGES DE DIAPOSITIVES POUR INFERER DES BIOMARQUEURS**
[72] KAPUR, SUPRIYA, US
[72] GODRICH, RAN, US
[72] KANAN, CHRISTOPHER, US
[72] FUCHS, THOMAS, US
[72] GRADY, LEO, US
[71] PAIGE.AI, INC., US
[85] 2022-02-02
[86] 2020-09-09 (PCT/US2020/049968)
[87] (WO2021/050567)
[30] US (62/897,734) 2019-09-09

[21] **3,146,712**
[13] A1

[51] **Int.Cl. A01B 27/00 (2006.01) A01B 79/00 (2006.01) G06K 9/00 (2022.01)**
[25] EN
[54] **SENSOR ASSEMBLY FOR AN AGRICULTURAL IMPLEMENT AND RELATED SYSTEMS AND METHODS FOR MONITORING FIELD SURFACE CONDITIONS**
[54] **ENSEMBLE CAPTEUR DE MATERIEL AGRICOLE ET SYSTEMES ASSOCIES AINSI QUE PROCEDES DE SURVEILLANCE D'ETATS DE SURFACE DE CHAMP**
[72] BARRICK, CHRISTOPHER, US
[71] CNH INDUSTRIAL AMERICA LLC, US
[85] 2022-02-02
[86] 2020-08-19 (PCT/US2020/046879)
[87] (WO2021/034872)
[30] US (16/547,893) 2019-08-22

[21] **3,147,157**
[13] A1

[51] **Int.Cl. C05F 17/20 (2020.01) C05F 17/80 (2020.01) C05F 3/06 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING TREATED MANURE**
[54] **PROCEDES DE PRODUCTION DE FUMIER TRAITE**
[72] KINLEY, ROBERT DOUGLAS, AU
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2022-02-07
[86] 2020-08-10 (PCT/AU2020/050829)
[87] (WO2021/022341)
[30] AU (2019902841) 2019-08-08

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[21] **3,147,920**
[13] A1

[51] **Int.Cl. H03G 3/32 (2006.01) H03G 7/00 (2006.01) H04R 25/00 (2006.01)**
[25] EN
[54] **MOBILE PHONE BASED HEARING LOSS CORRECTION SYSTEM**
[54] **SYSTEME DE CORRECTION DE PERTE AUDITIVE BASE SUR UN TELEPHONE MOBILE**
[72] DAS, SUPORNO, IN
[71] BENGAL REHABILITATION GROUP, IN
[85] 2021-12-22
[86] 2020-06-26 (PCT/IN2020/050553)
[87] (WO2020/261296)
[30] IN (201931025520) 2019-06-27

[21] **3,147,933**
[13] A1

[51] **Int.Cl. B41J 2/385 (2006.01)**
[25] EN
[54] **LABEL PRINTING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'IMPRESSION D'ETIQUETTES**
[72] MIDDLETON, BRADY, US
[72] MIDDLETON, STEVE, US
[72] KAMAN, MIKE, US
[72] MIDDLETON, BLAKE, US
[71] METAS, LLC, US
[85] 2021-06-28
[86] 2019-12-30 (PCT/US2019/068963)
[87] (WO2020/140120)
[30] US (62/785,932) 2018-12-28

[21] **3,149,305**
[13] A1

[51] **Int.Cl. G06N 10/60 (2022.01) B82Y 10/00 (2011.01)**
[25] EN
[54] **QUANTUM SYSTEM AND METHOD FOR SOLVING BAYESIAN PHASE ESTIMATION PROBLEMS**
[54] **SYSTEME QUANTIQUE ET PROCEDE DE RESOLUTION DE PROBLEMES D'ESTIMATION DE PHASE BAYESIENNE**
[72] CAO, YUDONG, US
[72] PEROPADRE, BORJA, US
[72] OLSON, JONATHAN P, US
[71] ZAPATA COMPUTING, INC., US
[85] 2022-01-28
[86] 2020-07-31 (PCT/US2020/044615)
[87] (WO2021/022217)
[30] US (62/881,886) 2019-08-01
[30] US (62/885,086) 2019-08-09
[30] US (62/912,226) 2019-10-08
[30] US (62/946,791) 2019-12-11

[21] **3,149,308**
[13] A1

[51] **Int.Cl. C07D 471/22 (2006.01)**
[25] EN
[54] **TREATMENT OF IMMUNE EVASIVE TUMORS**
[54] **TRAITEMENT DE TUMEURS EVASIVES IMMUNES**
[72] PUISIS, JOHN, US
[72] ELHOFY, ADAM, US
[72] MURTHY, TUSHAR, US
[72] BOYNE, MICHAEL, US
[72] PODOJIL, JOSEPH, US
[71] ONCOUR PHARMA, INC., US
[85] 2022-01-28
[86] 2020-07-31 (PCT/US2020/044622)
[87] (WO2021/022218)
[30] US (62/881,326) 2019-07-31
[30] US (63/018,026) 2020-04-30

[21] **3,149,322**
[13] A1

[51] **Int.Cl. C08L 75/04 (2006.01) B29C 48/00 (2019.01) C08G 18/61 (2006.01) C08G 18/73 (2006.01) C08G 18/76 (2006.01)**
[25] EN
[54] **THERMOPLASTIC POLYURETHANE CONTAINING A POLYSILOXANE CAPROLACTONE POLYOL**
[54] **POLYURETHANE THERMOPLASTIQUE CONTENANT UN POLYSILOXANE-CAPROLACTONE POLYOL**
[72] PIEDRA CLEMENTE, TRINIDAD, ES
[71] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2022-01-28
[86] 2020-08-03 (PCT/US2020/044742)
[87] (WO2021/026069)
[30] EP (19382681.5) 2019-08-05

[21] **3,149,324**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) A61P 37/02 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **COMBINED CANCER THERAPY OF ANTI-GALECTIN-9 ANTIBODIES AND CHEMOTHERAPEUTICS**
[54] **POLYTHERAPIE ANTICANCEREUSE D'ANTICORPS ANTI-GALECTINE-9 ET D'AGENTS CHIMIOTHERAPEUTIQUES**
[72] KOIDE, SHOHEI, US
[72] MILLER, GEORGE, US
[72] KOIDE, AKIKO, US
[72] CHEN, LINXIAO, US
[72] FILIPOVIC, ALEKSANDRA, GB
[72] ELENKO, ERIC, US
[72] BOLEN, JOSEPH, US
[71] NEW YORK UNIVERSITY, US
[71] PURETECH LYT, INC., US
[85] 2022-01-28
[86] 2020-08-03 (PCT/US2020/044777)
[87] (WO2021/022256)
[30] US (62/881,894) 2019-08-01
[30] US (PCT/US2020/031181) 2020-05-01

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[21] **3,149,330**
[13] A1

[51] **Int.Cl. C08L 75/04 (2006.01) C08G 18/48 (2006.01) C08G 18/61 (2006.01) C08G 18/73 (2006.01) C08G 18/76 (2006.01)**

[25] EN

[54] **THERMOPLASTIC POLYURETHANE AND PROCESS FOR MAKING A THERMOPLASTIC POLYURETHANE AND COMPONENTS THEREOF**

[54] **POLYURETHANE THERMOPLASTIQUE ET PROCEDE DE FABRICATION D'UN POLYURETHANE THERMOPLASTIQUE ET COMPOSANTS DE CELUI-CI**

[72] **PIEDRA CLEMENTE, TRINIDAD, ES**

[71] **LUBRIZOL ADVANCED MATERIALS, INC., US**

[85] 2022-01-28

[86] 2020-08-04 (PCT/US2020/044813)

[87] (WO2021/026108)

[30] EP (19382682.3) 2019-08-05

[21] **3,149,331**
[13] A1

[51] **Int.Cl. C22C 38/38 (2006.01) C21D 6/00 (2006.01) C21D 9/46 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/18 (2006.01) C23C 2/40 (2006.01)**

[25] EN

[54] **HIGH DUCTILITY ZINC-COATED STEEL SHEET PRODUCTS**

[54] **PRODUITS EN TOLE D'ACIER ZINGUEE A DUCTILITE ELEVEE**

[72] **THOMAS, LARRIN S., US**

[71] **UNITED STATES STEEL CORPORATION, US**

[85] 2022-01-28

[86] 2020-08-07 (PCT/US2020/045371)

[87] (WO2021/026437)

[30] US (62/883,704) 2019-08-07

[21] **3,149,337**
[13] A1

[51] **Int.Cl. A01N 63/30 (2020.01) A01N 25/02 (2006.01) A01N 25/14 (2006.01) A01N 25/28 (2006.01) A01P 7/04 (2006.01)**

[25] EN

[54] **INSECT-PATHOGENIC FUNGUS, SPORES, COMPOSITION AND USE OF SAME**

[54] **COMPOSITION DE SPORES ET CHAMPIGNONS ENTOMOPATHOGENES, ET SON UTILISATION**

[72] **ANSARI, MINSHAD ALI, GB**

[71] **BIONEMA LTD, GB**

[85] 2022-01-31

[86] 2019-09-13 (PCT/GB2019/052584)

[87] (WO2020/053603)

[30] GB (1815025.0) 2018-09-14

[21] **3,149,341**
[13] A1

[51] **Int.Cl. A01N 55/08 (2006.01) A01N 47/12 (2006.01) A01P 3/00 (2006.01) B27K 1/00 (2006.01)**

[25] EN

[54] **SYNERGISTIC WOOD PRESERVATIVE COMPOSITION COMPRISING POLYMERIC BETAINE AND CARBAMATE**

[54] **COMPOSITION SYNERGIQUE DE CONSERVATION DU BOIS COMPRENANT DE LA BETAINE POLYMEREE ET DU CARBAMATE**

[72] **CHEN, MIN, US**

[72] **JACOBS, JAKE ZACHARY, US**

[71] **TROY CORPORATION, US**

[85] 2022-01-28

[86] 2020-08-07 (PCT/US2020/045452)

[87] (WO2021/030202)

[30] US (62/884,738) 2019-08-09

[21] **3,149,345**
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01) A61B 17/225 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND APPARATUS FOR PRESSURE-WAVE OCULAR THERAPY**

[54] **SYSTEMES, PROCEDES ET DISPOSITIFS POUR THERAPIE OCULAIRE A ONDES DE PRESSION**

[72] **HEREKAR, RAJEEV, US**

[72] **HEREKAR, ANJALI, US**

[72] **HEREKAR, SATISH, US**

[71] **SENOGEN GMBH, DE**

[85] 2022-01-28

[86] 2020-08-10 (PCT/US2020/045662)

[87] (WO2021/026538)

[30] US (62/884,333) 2019-08-08

[30] US (62/979,097) 2020-02-20

[30] US (63/043,988) 2020-06-25

[21] **3,149,346**
[13] A1

[51] **Int.Cl. B29B 15/14 (2006.01) B29C 64/118 (2017.01) B29C 64/209 (2017.01)**

[25] EN

[54] **3D PRINTING OF A COMPOSITE MATERIAL VIA SEQUENTIAL DUAL-CURING POLYMERIZATION**

[54] **IMPRESSION 3D D'UN MATERIAU COMPOSITE PAR POLYMERISATION SEQUENTIELLE A DOUBLE DURCISSEMENT**

[72] **KORSHIKOV, VASILY, US**

[72] **TRUSHINA, ANNA, US**

[72] **STARODUBTSEV, DMITRY, US**

[72] **OLONITSYN, SLAVA, US**

[72] **IVANOVA, ANNA, US**

[72] **NAZAROVA, GALINA, US**

[72] **DUBOV, ALEKSEL, US**

[71] **MIGHTY BUILDINGS, INC., US**

[85] 2022-01-28

[86] 2020-08-12 (PCT/US2020/046039)

[87] (WO2021/030512)

[30] US (16/541,081) 2019-08-14

PCT Applications Entering the National Phase

[21] **3,149,405**
[13] A1

[51] **Int.Cl. G02B 1/11 (2015.01) G02B 1/115 (2015.01) G02B 1/14 (2015.01) G02B 1/18 (2015.01) B29D 11/00 (2006.01) B32B 18/00 (2006.01) G02B 1/10 (2015.01) G02B 1/12 (2006.01)**

[25] EN

[54] **ANTI-REFLECTIVE LENS AND METHOD FOR TREATING A LENS TO REDUCE LIGHT REFLECTIONS FOR ANIMALS AND DEVICES THAT VIEW THROUGH THE ULTRA VIOLET LIGHT SPECTRUM**

[54] **LENTILLE ANTI-REFLECHISSANTE ET PROCEDE DE TRAITEMENT D'UNE LENTILLE DANS LE BUT DE REDUIRE LES REFLEXIONS DE LUMIERE POUR LES ANIMAUX ET DISPOSITIFS QUI VISUALISENT A TRAVERS LE SPECTRE DE LUMIERE ULTRAVIOLETTE**

[72] KESTER, NORMAN L., US
[72] WINKELMAN, ADAM E., US
[72] HALL, NICHOLAS M., US
[72] UNBANKES, RICHARD D., US
[71] QUANTUM INNOVATIONS, INC., US

[85] 2021-01-25
[86] 2020-03-10 (PCT/US2020/021822)
[87] (WO2020/190566)
[30] US (62/819,891) 2019-03-18
[30] US (16/782,921) 2020-02-05

[21] **3,149,476**
[13] A1

[51] **Int.Cl. A47L 13/12 (2006.01) A47L 13/022 (2006.01) A47L 13/08 (2006.01) A47L 13/16 (2006.01) A47L 17/00 (2006.01)**

[25] EN

[54] **SCRAPER SPONGE**

[54] **EPONGE DE RACLAGE**

[72] OMOTOLA, ALAHANDRO O., US
[71] PHIISAGEN CORPORATION, US

[85] 2021-06-28
[86] 2019-11-21 (PCT/US2019/000057)
[87] (WO2020/142091)
[30] US (62/917,756) 2018-12-31
[30] US (16/602,099) 2019-08-12

[21] **3,149,477**
[13] A1

[51] **Int.Cl. A61H 1/00 (2006.01) A61H 7/00 (2006.01) A61H 99/00 (2006.01)**

[25] EN

[54] **NON-SURGICAL BODY SCULPTING METHOD AND MESSAGE METHOD FOR NON-SURGICAL BODY SCULPTING**

[54] **PROCEDE DE CORRECTION SANS OPERATION DE LA SILHOUETTE ET PROCEDE DE MASSAGE POUR LA CORRECTION SANS OPERATION DE LA SILHOUETTE**

[72] KALICHKINA, ANNA
ALEKSANDROVNA, RU

[71] KALICHKINA, ANNA
ALEKSANDROVNA, RU

[71] VASILEVNA, VARSHININA
NATALIIA, RU

[85] 2022-01-31
[86] 2020-06-02 (PCT/RU2020/050108)
[87] (WO2021/025595)
[30] RU (2019124999) 2019-08-07

[21] **3,149,478**
[13] A1

[51] **Int.Cl. C12N 5/0775 (2010.01) A61K 35/28 (2015.01)**

[25] EN

[54] **CELLULAR COMPOSITIONS COMPRISING VIRAL VECTORS AND METHODS OF TREATMENT**

[54] **COMPOSITIONS CELLULAIRES COMPRENANT DES VECTEURS VIRAUX ET PROCEDES DE TRAITEMENT**

[72] DEVINE, DAN, US
[72] LOIZOS, NICK, US
[72] ITESCU, SILVIU, AU

[71] MESOBLAST INTERNATIONAL
SARL, CH

[85] 2022-02-01
[86] 2020-08-05 (PCT/IB2020/057410)
[87] (WO2021/024207)
[30] US (62/882,840) 2019-08-05

[21] **3,149,479**
[13] A1

[51] **Int.Cl. C07J 41/00 (2006.01) A61K 31/575 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61P 9/10 (2006.01) A61P 25/28 (2006.01) C07J 75/00 (2006.01)**

[25] EN

[54] **HUMAN AMINOSTEROL ENT-03 COMPOUNDS, RELATED COMPOSITIONS COMPRISING THE SAME, AND METHODS OF USING THE SAME**

[54] **COMPOSES D'AMINOSTEROL ENT-03 HUMAIN, COMPOSITIONS ASSOCIEES LES COMPRENANT, ET LEURS PROCEDES D'UTILISATION**

[72] BARBUT, DENISE, US
[72] ZASLOFF, MICHAEL, US
[71] ENTERIN, INC., US

[85] 2022-02-01
[86] 2020-07-31 (PCT/US2020/044390)
[87] (WO2021/025973)
[30] US (62/882,358) 2019-08-02
[30] US (63/041,031) 2020-06-18

[21] **3,149,480**
[13] A1

[51] **Int.Cl. C07J 41/00 (2006.01) A61K 31/575 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61P 9/10 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **HUMAN SQUALAMINE DERIVATIVES, RELATED COMPOSITIONS COMPRISING THE SAME, AND METHODS OF USING THE SAME**

[54] **DERIVES DE SQUALAMINE HUMAINE, COMPOSITIONS ASSOCIEES LES COMPRENANT, ET PROCEDES D'UTILISATION CORRESPONDANTS**

[72] BARBUT, DENISE, US
[72] ZASLOFF, MICHAEL, US
[71] ENTERIN, INC., US

[85] 2022-02-01
[86] 2020-07-31 (PCT/US2020/044392)
[87] (WO2021/025974)
[30] US (62/882,318) 2019-08-02
[30] US (63/036,828) 2020-06-09

Demandes PCT entrant en phase nationale

[21] **3,149,481**
[13] A1

[51] **Int.Cl. C08G 63/127 (2006.01) C08G 63/20 (2006.01) C08L 33/08 (2006.01)**

[25] EN

[54] **WATER-RESISTANT ACRYLIC COATINGS**

[54] **REVETEMENTS ACRYLIQUES RESISTANTS A L'EAU**

[72] CHEUNG, WILSON, US

[72] HAGEN, MICHAEL, US

[72] KIM, KIHUN, US

[72] PEARL, BENJAMIN, US

[72] CHICH, ADEM, US

[72] BOSS, DANIEL E., US

[71] BMIC LLC, US

[85] 2022-02-01

[86] 2020-07-31 (PCT/US2020/044521)

[87] (WO2021/026001)

[30] US (62/881,995) 2019-08-02

[30] US (63/015,963) 2020-04-27

[21] **3,149,482**
[13] A1

[51] **Int.Cl. A61K 31/34 (2006.01) A61K 31/4155 (2006.01) A61K 31/4184 (2006.01) A61K 31/4192 (2006.01) A61K 31/4196 (2006.01) A61K 31/422 (2006.01) A61K 31/427 (2006.01) A61K 31/428 (2006.01) A61K 31/443 (2006.01) A61K 31/4439 (2006.01) A61K 31/519 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) A61P 37/02 (2006.01) A61P 37/04 (2006.01) A61P 37/08 (2006.01) C07D 403/14 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 491/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **BIS-[N-((5-CARBAMOYL)-1H-BENZO[D]IMIDAZOL-2-YL)-PYRAZOL-5-CARBOXAMIDE] DERIVATIVES AND RELATED COMPOUNDS AS STING (STIMULATOR OF INTERFERON GENES) AGONISTS FOR THE TREATMENT OF CANCER**

[54] **DERIVES DE BIS-[N-((5-CARBAMOYL)-1H-BENZO[D]IMIDAZOL-2-YL)-PYRAZOL-5-CARBOXAMIDE] ET COMPOSES APPARENTES UTILISES EN TANT QU'AGONISTES DE STING (STIMULATEUR DES GENES DE L'INTERFERON) POUR LE TRAITEMENT DU CANCER**

[72] DUVALL, JEREMY R., US

[72] BENTLEY, KEITH W., US

[72] JONES, BRIAN D., US

[72] KELLEHER, EUGENE W., US

[72] RAY, SOUMYA S., US

[72] THOMAS, JOSHUA D., US

[72] TOADER, DORIN, US

[71] MERSANA THERAPEUTICS, INC., US

[85] 2022-02-01

[86] 2020-07-31 (PCT/US2020/044538)

[87] (WO2021/026009)

[30] US (62/882,081) 2019-08-02

[30] US (62/944,643) 2019-12-06

[30] US (62/982,935) 2020-02-28

[21] **3,149,483**
[13] A1

[51] **Int.Cl. A61M 25/01 (2006.01) A61B 1/04 (2006.01) A61B 1/31 (2006.01) A61M 1/00 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **STEERABLE SHEATH**

[54] **GAINE ORIENTABLE**

[72] SUBRAMANIAM, RAJ, US

[72] TUN, ZAYA, US

[72] QUINTOS, ROBERT, US

[71] VIZARAMED, INC., US

[85] 2022-02-01

[86] 2020-07-31 (PCT/US2020/044578)

[87] (WO2021/026019)

[30] US (62/882,050) 2019-08-02

[21] **3,149,484**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/573 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS OF ADMINISTERING ANTI-SIGLEC-8 ANTIBODIES AND CORTICOSTEROIDS**

[54] **PROCEDES D'ADMINISTRATION D'ANTICORPS ANTI-SIGLEC-8 ET DE CORTICOSTEROIDES**

[72] SINGH, BHUPINDER, US

[72] RASMUSSEN, HENRIK, US

[71] ALLAKOS INC., US

[85] 2022-02-01

[86] 2020-07-31 (PCT/US2020/044583)

[87] (WO2021/026021)

[30] US (62/882,330) 2019-08-02

PCT Applications Entering the National Phase

[21] **3,149,486**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6869 (2018.01) G16B 20/00 (2019.01) G16B 20/10 (2019.01)**

[25] EN

[54] **METHOD FOR ANALYSING LOSS-OF-HETEROZYGOSITY (LOH) FOLLOWING DETERMINISTIC RESTRICTION-SITE WHOLE GENOME AMPLIFICATION (DRS-WGA)**

[54] **PROCEDE D'ANALYSE DE PERTE D'HETEROZYGOSITE (LOH) A LA SUITE D'UNE AMPLIFICATION DE GENOME ENTIER A SITE DE RESTRICTION DETERMINISTE (DR-WGA)**

[72] MANARESI, NICOLO, IT
[72] GARONZI, MARIANNA, IT
[72] FERRARINI, ALBERTO, IT
[72] FORCATO, CLAUDIO, IT
[71] MENARINI SILICON BIOSYSTEMS S.P.A., IT
[85] 2022-01-28
[86] 2020-07-29 (PCT/IB2020/057149)
[87] (WO2021/019459)
[30] IT (102019000013335) 2019-07-30

[21] **3,149,488**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61P 21/00 (2006.01)**

[25] EN

[54] **EXON 44-TARGETED NUCLEIC ACIDS AND RECOMBINANT ADENO-ASSOCIATED VIRUS COMPRISING SAID NUCLEIC ACIDS FOR TREATMENT OF DYSTROPHIN-BASED MYOPATHIES**

[54] **ACIDES NUCLEIQUES CIBLANT L'EXON 44 ET VIRUS ADENO-ASSOCIE RECOMBINANT COMPRENANT LESDITS ACIDES NUCLEIQUES POUR LE TRAITEMENT DE MYOPATHIES A BASE DE DYSTROPHINE**

[72] WEIN, NICOLAS SEBASTIEN, US
[72] FLANIGAN, KEVIN, US
[71] RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, US
[85] 2022-02-01
[86] 2020-08-03 (PCT/US2020/044755)
[87] (WO2021/026075)
[30] US (62/882,216) 2019-08-02

[21] **3,149,489**
[13] A1

[51] **Int.Cl. A61M 5/178 (2006.01) A61J 1/20 (2006.01) A61M 5/28 (2006.01)**

[25] EN

[54] **SYRINGE**

[54] **SERINGUE**

[72] CHEN, SAMUEL, US
[72] TROM, STEVE, US
[71] MICROVENTION, INC., US
[85] 2022-02-01
[86] 2020-08-05 (PCT/US2020/045061)
[87] (WO2021/026269)
[30] US (62/883,472) 2019-08-06

[21] **3,149,491**
[13] A1

[51] **Int.Cl. A61K 36/575 (2006.01) A61K 47/12 (2006.01) A61Q 1/00 (2006.01)**

[25] EN

[54] **FORMULATIONS INCLUDING DIHYDROHONOKIOL**

[54] **FORMULATIONS COMPRENANT DU DIHYDROHONOKIOL**

[72] KIRKLAND, JUSTIN, US
[71] KIRKLAND, JUSTIN, US
[85] 2022-02-01
[86] 2020-08-06 (PCT/US2020/045089)
[87] (WO2021/026285)
[30] US (62/883,453) 2019-08-06

[21] **3,149,492**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) G01N 21/77 (2006.01) H01L 27/146 (2006.01)**

[25] EN

[54] **INCREASED EMISSION COLLECTION EFFICIENCY IN INTEGRATED OPTICAL DEVICES**

[54] **EFFICACITE DE COLLECTE D'EMISSION ACCRUE DANS DES DISPOSITIFS OPTIQUES INTEGRES**

[72] KABIRI, ALI, US
[72] SHEN, BING, US
[72] SCHMID, GERARD, US
[72] BEACH, JAMES, US
[72] PRESTON, KYLE, US
[72] HOSALI, SHARATH, US
[71] QUANTUM-SI INCORPORATED, US
[85] 2022-02-01
[86] 2020-08-06 (PCT/US2020/045101)
[87] (WO2021/026291)
[30] US (62/884,395) 2019-08-08

[21] **3,149,494**
[13] A1

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

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PROMOTING AND POTENTIATING T-CELL MEDIATED IMMUNE RESPONSES THROUGH ADCC TARGETING OF CD39 EXPRESSING CELLS**

[54] **METHODES ET COMPOSITIONS POUR FAVORISER ET POTENTIALISER DES REPONSES IMMUNITAIRES A MEDIATION PAR DES LYMPHOCYTES T PAR CIBLAGE ADCC DE CELLULES EXPRIMANT CD39**

[72] SHANG, YAN W., US
[71] PURINOMIA BIOTECH, INC., US
[85] 2022-02-01
[86] 2020-08-10 (PCT/US2020/045589)
[87] (WO2021/030251)
[30] US (62/885,509) 2019-08-12

[21] **3,149,497**
[13] A1

[51] **Int.Cl. C07H 21/04 (2006.01) B01J 19/00 (2006.01) C12P 19/34 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUSES FOR MANUFACTURING FOR REMOVING MATERIAL FROM A THERAPEUTIC COMPOSITION**

[54] **PROCEDES ET APPAREILS DE FABRICATION PERMETTANT D'ELIMINER UN MATERIAU D'UNE COMPOSITION THERAPEUTIQUE**

[72] DEUTSCH, SAMUEL, US
[72] ELDRIDGE, BENJAMIN, US
[72] MCKINLAY, COLIN, US
[72] WEN, XIMIAO, US
[72] NATH, SANGEETA, US
[72] KHANDROS, IGOR, US
[72] EVANS, ROBERT, US
[71] NUTCRACKER THERAPEUTICS, INC., US
[85] 2022-02-01
[86] 2020-08-10 (PCT/US2020/045625)
[87] (WO2021/030271)
[30] US (62/885,170) 2019-08-09
[30] US (62/885,159) 2019-08-09
[30] US (62/914,374) 2019-10-11

Demandes PCT entrant en phase nationale

[21] **3,149,498**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01)**

[25] EN

[54] **PROCEDES FOR PURIFYING DOWNSTREAM PRODUCTS OF IN VITRO TRANSCRIPTION**

[54] **PROCEDES DE PURIFICATION DE PRODUITS EN AVAL DE TRANSCRIPTION IN VITRO**

[72] SHAMASHKIN, MICHAEL, US

[72] SCOTT, MATTHEW, US

[72] WOJCIECHOWSKI, PETER, US

[71] MODERNATX, INC., US

[85] 2022-02-01

[86] 2020-08-13 (PCT/US2020/046069)

[87] (WO2021/030533)

[30] US (62/886,840) 2019-08-14

[21] **3,149,499**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61B 90/00 (2016.01) A61B 90/30 (2016.01) A61B 1/04 (2006.01) A61B 1/07 (2006.01) A61B 1/313 (2006.01)**

[25] EN

[54] **CANNULA AND OBTURATOR SYSTEM**

[54] **CANULE ET SYSTEME D'OBTURATEUR**

[72] FULLER, DONALD JOSEPH, US

[71] REBOUND THERAPEUTICS CORPORATION, US

[85] 2022-02-01

[86] 2020-08-20 (PCT/US2020/047211)

[87] (WO2021/041152)

[30] US (16/550,163) 2019-08-23

[21] **3,149,501**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) C12M 1/00 (2006.01) C12N 1/00 (2006.01) C12N 1/12 (2006.01) C12N 1/38 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR CULTURING HEMOGLOBIN-DEPENDENT BACTERIA**

[54] **PROCEDES ET COMPOSITIONS POUR LA CULTURE DE BACTERIES DEPENDANT DE L'HEMOGLOBINE**

[72] KRAVITZ, VALERIA, US

[72] SIZOVA, MARIA, US

[71] EVELO BIOSCIENCES, INC., US

[85] 2022-02-01

[86] 2020-07-31 (PCT/US2020/044378)

[87] (WO2021/025968)

[30] US (62/882,021) 2019-08-02

[30] US (62/898,372) 2019-09-10

[30] US (62/971,391) 2020-02-07

[21] **3,149,502**
[13] A1

[51] **Int.Cl. G01R 19/155 (2006.01) H05K 5/02 (2006.01) H02B 1/06 (2006.01)**

[25] EN

[54] **A METHOD FOR ALLOWING ACCESS TO AN ELECTRICAL ENCLOSURE**

[54] **PROCEDE POUR PERMETTRE L'ACCES A UNE ENCEINTE ELECTRIQUE**

[72] BUGARIS, RACHEL M., US

[72] SENESE, JOHN C., US

[71] PANDUIT CORP., US

[85] 2022-02-01

[86] 2020-07-24 (PCT/US2020/043437)

[87] (WO2021/025873)

[30] US (62/882,042) 2019-08-02

[21] **3,149,504**
[13] A1

[25] EN

[54] **UNSUPERVISED LEARNING AND PREDICTION OF LINES OF THERAPY FROM HIGH-DIMENSIONAL LONGITUDINAL MEDICATIONS DATA**

[54] **APPRENTISSAGE NON SUPERVISE ET PREDICTION DE LIGNES DE THERAPIE A PARTIR DE DONNEES DE MEDICAMENTS LONGITUDINALES A HAUTE DIMENSION**

[72] BARBER, MATHEW, US

[72] MORK, RYAN, US

[71] TEMPUS LABS, INC., US

[85] 2022-02-01

[86] 2020-08-24 (PCT/US2020/047704)

[87] (WO2021/035224)

[30] US (62/890,178) 2019-08-22

[21] **3,149,506**
[13] A1

[51] **Int.Cl. A61F 7/00 (2006.01) A61F 2/50 (2006.01) A61M 35/00 (2006.01) A61N 1/04 (2006.01)**

[25] EN

[54] **APPARATUSES, SYSTEMS, AND METHODS FOR THE TREATMENT OF DAMAGED TISSUE**

[54] **APPAREILS, SYSTEMES ET METHODES POUR LE TRAITEMENT DE TISSU ENDOMMAGE**

[72] LAWSON, DARYL, US

[72] ARENA, CHRISTOPHER BRIAN, US

[72] FISCHHELL, TIM A., US

[71] ADLORE, INC., US

[85] 2022-02-01

[86] 2020-08-27 (PCT/US2020/048087)

[87] (WO2021/041595)

[30] US (62/893,025) 2019-08-28

PCT Applications Entering the National Phase

[21] **3,149,509**
[13] A1

[51] **Int.Cl. B61F 5/12 (2006.01) B61F 5/06 (2006.01) F16F 7/08 (2006.01) F16F 13/00 (2006.01)**

[25] EN

[54] **DAMPING SYSTEM FOR A RAILWAY TRUCK ASSEMBLY**

[54] **SYSTEME D'AMORTISSEMENT POUR UN ENSEMBLE BOGIE DE CHEMIN DE FER**

[72] WIKE, PAUL STEVEN, US

[71] AMSTED RAIL COMPANY, INC., US

[85] 2022-02-01

[86] 2020-07-16 (PCT/US2020/042221)

[87] (WO2021/040902)

[30] US (16/550,889) 2019-08-26

[21] **3,149,510**
[13] A1

[51] **Int.Cl. B65F 3/00 (2006.01) B05B 15/60 (2018.01) B05B 15/70 (2018.01) B05B 3/14 (2006.01) B05B 9/03 (2006.01) B60S 1/66 (2006.01)**

[25] EN

[54] **DUMP-TRUCK FLUID ASSISTANCE SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE D'ASSISTANCE PAR FLUIDE A UN CAMION-BENNE**

[72] BEAVER, PAT, US

[71] BEAVER, PAT, US

[85] 2022-02-01

[86] 2020-07-13 (PCT/US2020/041784)

[87] (WO2021/040897)

[30] US (16/555,868) 2019-08-29

[21] **3,149,512**
[13] A1

[51] **Int.Cl. A61K 51/02 (2006.01) A61K 51/12 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **SUSPENSION A METHOD OF PREPARING A RADIOACTIVE YTTRIUM PHOSPHATE PARTICLE**

[54] **PROCEDE DE PREPARATION D'UNE SUSPENSION DE PARTICULES DE PHOSPHATE D'YTTRIUM RADIOACTIVES**

[72] KORENKO, MICHAEL, US

[72] SWANBERG, DAVID, US

[71] VIVOS, INC., US

[85] 2022-02-01

[86] 2020-06-02 (PCT/US2020/035733)

[87] (WO2021/002994)

[30] US (16/459,466) 2019-07-01

[21] **3,149,515**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A23L 33/135 (2016.01) A61K 35/74 (2015.01) A61P 3/00 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **AKKERMANSIA MUCINIPHILA EB-AMDK19 STRAIN AND USE THEREOF**

[54] **SOUCHE D' AKKERMANSIA MUCINIPHILA EB-AMDK19 ET SON UTILISATION**

[72] SEO, JAE-GU, KR

[72] SHIN, JOO-HYUN, KR

[72] LEE, DO-KYUNG, KR

[71] ENTEROBIOME INC., KR

[85] 2022-02-01

[86] 2020-05-11 (PCT/KR2020/006179)

[87] (WO2021/040187)

[30] KR (10-2019-0103511) 2019-08-23

[30] KR (10-2020-0033878) 2020-03-19

[21] **3,149,523**
[13] A1

[51] **Int.Cl. H04B 10/61 (2013.01) H04B 10/64 (2013.01)**

[25] EN

[54] **OPTICAL TRANSMISSION SYSTEMS, RECEIVERS, AND DEVICES, AND METHODS OF RECEIVING OPTICAL SIGNALS**

[54] **SYSTEMES DE TRANSMISSION OPTIQUE, RECEPTEURS ET DISPOSITIFS, ET PROCEDES DE RECEPTION DE SIGNAUX OPTIQUES**

[72] SUHR, LAU, DK

[72] VALDECASA, GUILLERMO, DK

[72] ALTAVAS NAVARRO, JOSE ANTONIO, DK

[72] JENSEN, JESPER, DK

[71] BIFROST COMMUNICATIONS APS, DK

[85] 2022-02-01

[86] 2020-08-07 (PCT/IB2020/057470)

[87] (WO2021/024227)

[30] US (62/883,846) 2019-08-07

[21] **3,149,525**
[13] A1

[51] **Int.Cl. B01D 39/16 (2006.01) B01D 46/52 (2006.01)**

[25] EN

[54] **HIGH-PERFORMANCE SPUNBONDED AIR-FILTRATION WEB**

[54] **BANDE DE FILTRATION D'AIR FILEE-LIEE A HAUTE PERFORMANCE**

[72] JASUJA, HIMANSHU, US

[72] WILLGOHS, KENT B., US

[72] THELEN, JACOB J., US

[72] STELTER, JOHN D., US

[72] SMITH, SAMANTHA D., US

[72] SAGER, PATRICK J., US

[72] KOPECKY, WILLIAM J., US

[72] GERHARDT, BRYAN L., US

[72] FOX, ANDREW R., US

[72] FLAGE, ALEXANDER P., US

[72] BERRIGAN, MICHAEL R., US

[72] BECKER, ZACKARY J., US

[71] 3M INNOVATIVE PROPERTIES COMPANY, US

[85] 2022-02-01

[86] 2020-08-12 (PCT/IB2020/057600)

[87] (WO2021/028852)

[30] US (62/886,149) 2019-08-13

[21] **3,149,527**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/89 (2013.01)**

[25] EN

[54] **ATRIOVENTRICULAR VALVE REPLACEMENT**

[54] **REMPLACEMENT DE VALVE AURICULO-VENTRICULAIRE**

[72] AGIAN, NADAV, IL

[72] KARNI, SHAI, IL

[72] TUBISHEVITZ, AMIT, IL

[72] SUDIN, YURI, IL

[71] INNOVALVE BIO MEDICAL LTD., IL

[85] 2022-02-01

[86] 2020-08-13 (PCT/IB2020/057636)

[87] (WO2021/028867)

[30] US (62/886,366) 2019-08-14

Demandes PCT entrant en phase nationale

[21] **3,149,529**
[13] A1

[51] **Int.Cl. B60K 35/00 (2006.01) B60K 37/00 (2006.01) B60R 13/02 (2006.01) B60R 16/023 (2006.01) B60R 16/03 (2006.01) B62D 25/14 (2006.01)**

[25] EN

[54] **CONDUCTIVE MULTILAYER PANEL FOR THE COCKPIT OF VEHICLES, IN PARTICULAR MOTOR VEHICLES**

[54] **PANNEAU MULTICOUCHE CONDUCTEUR POUR LE COCKPIT DE VEHICULES, EN PARTICULIER DE VEHICULES AUTOMOBILES**

[72] USTUNBERK, CAN, IT
[72] SCALTRITO, LUCIANO, IT
[71] MARTUR ITALY S.R.L., IT
[85] 2022-02-01
[86] 2020-09-11 (PCT/IB2020/058458)
[87] (WO2021/048805)
[30] IT (102019000016313) 2019-09-13

[21] **3,149,531**
[13] A1

[51] **Int.Cl. A23L 5/00 (2016.01) A23L 33/22 (2016.01)**

[25] EN

[54] **POWDERY FOOD CONTAINING EDIBLE PLANT, AND FOOD/DRINK CONTAINING SAME**

[54] **ALIMENT EN POUDRE CONTENANT UNE PLANTE COMESTIBLE, ET PRODUIT ALIMENTAIRE OU BOISSON LE CONTENANT**

[72] KONISHI, MANABU, JP
[72] IHARA, JUNICHIRO, JP
[71] MIZKAN HOLDINGS CO., LTD., JP
[85] 2022-02-01
[86] 2020-03-19 (PCT/JP2020/012218)
[87] (WO2021/024543)
[30] JP (2019-143723) 2019-08-05

[21] **3,149,533**
[13] A1

[51] **Int.Cl. G16H 20/30 (2018.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61B 5/145 (2006.01) A61B 5/22 (2006.01) A63B 71/06 (2006.01)**

[25] EN

[54] **EXERCISE MANAGEMENT SYSTEM, SERVER SYSTEM, TERMINAL DEVICE, AND EXERCISE MANAGEMENT METHOD**

[54] **SYSTEME DE GESTION D'EXERCICE, SYSTEME SERVEUR, DISPOSITIF TERMINAL ET PROCEDE DE GESTION D'EXERCICE**

[72] KANAYAMA, MOTOHIRO, JP
[71] BANDAI NAMCO ENTERTAINMENT INC., JP
[71] ASTELLAS PHARMA INC., JP
[85] 2022-02-01
[86] 2020-07-31 (PCT/JP2020/029499)
[87] (WO2021/024949)
[30] JP (2019-142978) 2019-08-02

[21] **3,149,536**
[13] A1

[51] **Int.Cl. A63F 13/212 (2014.01) A63F 13/45 (2014.01) A63F 13/5375 (2014.01) A63F 13/69 (2014.01) A63B 71/06 (2006.01)**

[25] EN

[54] **EXERCISE MANAGEMENT SYSTEM, SERVER SYSTEM, TERMINAL DEVICE, AND EXERCISE MANAGEMENT METHOD**

[54] **SYSTEME DE GESTION D'EXERCICE, SYSTEME DE SERVEUR, DISPOSITIF TERMINAL ET PROCEDE DE GESTION D'EXERCICE**

[72] NISHIMOTO, YASUHIRO, JP
[72] IWASAKI, SATOSHI, JP
[72] KANAYAMA, MOTOHIRO, JP
[71] BANDAI NAMCO ENTERTAINMENT INC., JP
[71] ASTELLAS PHARMA INC., JP
[85] 2022-02-01
[86] 2020-07-31 (PCT/JP2020/029500)
[87] (WO2021/024950)
[30] JP (2019-142979) 2019-08-02

[21] **3,149,537**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 43/00 (2006.01) C12Q 1/06 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **BIOMARKERS FOR DETERMINING THE EFFICACY OF IMMUNE CHECKPOINT INHIBITORS**

[54] **BIOMARQUEUR PERMETTANT D'EVALUER L'EFFICACITE D'UN INHIBITEUR DE POINT DE CONTROLE IMMUNITAIRE**

[72] NISHIKAWA, HIROYOSHI, JP
[72] OHYAMA, YUKIYA, JP
[72] HONDA, ATSUSHI, JP
[72] OYAGI, ATSUSHI, JP
[72] KAKINUMA, TORU, JP
[72] MURATA, MASAYUKI, JP
[71] ONO PHARMACEUTICAL CO., LTD., JP
[71] NATIONAL CANCER CENTER, JP
[85] 2022-02-01
[86] 2020-08-04 (PCT/JP2020/029882)
[87] (WO2021/025031)
[30] JP (2019-144011) 2019-08-05
[30] JP (2019-216881) 2019-11-29

[21] **3,149,554**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 31/485 (2006.01) A61P 25/04 (2006.01)**

[25] FR

[54] **LOW-DOSAGE ORODISPERSIBLE OPIOID TABLET AND METHOD FOR PREPARING SAME**

[54] **COMPRIME ORODISPERSIBLE D'OPIOIDE A FAIBLE DOSAGE ET SON PROCEDE DE PREPARATION**

[72] CRIERE, BRUNO, FR
[72] ZERROUK, JACK, FR
[71] ETHYPHARM, FR
[85] 2022-02-02
[86] 2020-08-13 (PCT/FR2020/051464)
[87] (WO2021/028640)
[30] FR (FR19 09185) 2019-08-13

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[21] **3,149,556**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C12N 5/0783 (2010.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/44 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) G01N 33/92 (2006.01) A61K 39/00 (2006.01)**

[25] EN
[54] **SSEA-4 BINDING MEMBERS**
[54] **ELEMENTS DE LIAISON A SSEA-4**
[72] DURRANT, LINDA GILLIAN, GB
[72] CHUA, JIAXIN, GB
[71] SCANCELL LIMITED, GB
[85] 2022-02-02
[86] 2020-09-04 (PCT/EP2020/074878)
[87] (WO2021/044039)
[30] GB (1912882.6) 2019-09-06

[21] **3,149,563**
[13] A1

[51] **Int.Cl. B25J 9/00 (2006.01)**

[25] EN
[54] **A PARALLEL-KINEMATIC MACHINE WITH VERSATILE TOOL ORIENTATION**
[54] **MACHINE CINEMATIQUE PARALLELE A MULTIPLES ORIENTATIONS D'OUTIL**
[72] BROGARDH, TORGNY, SE
[72] NILSSON, KLAS, SE
[72] NILSSON, ADAM, US
[71] COGNIBOTICS AB, SE
[85] 2022-02-02
[86] 2020-08-17 (PCT/EP2020/072999)
[87] (WO2021/032680)
[30] EP (19192225.1) 2019-08-19
[30] US (63/051,221) 2020-07-13

[21] **3,149,570**
[13] A1

[51] **Int.Cl. A46B 3/00 (2006.01) A46B 3/08 (2006.01) A46B 3/16 (2006.01) A46B 3/18 (2006.01) A46B 9/04 (2006.01)**

[25] EN
[54] **BRUSH HAVING A BRISTLE BUNCH FASTENED BY MEANS OF CLAMPS, AND WIRE FOR PRODUCING SUCH CLAMPS**
[54] **BROSSE DOTEE D'UNE TOUFFE DE POILS FIXEE AU MOYEN DE PINCES, ET FIL PERMETTANT LA PRODUCTION DE TELLES PINCES**
[72] NOETHE, TOBIAS, DE
[72] SCHROEDER, WALDEMAR, DE
[71] BERKENHOFF GMBH, DE
[85] 2022-02-02
[86] 2020-07-13 (PCT/EP2020/069771)
[87] (WO2021/028139)
[30] DE (10 2019 121 693.1) 2019-08-12

[21] **3,149,558**
[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61P 19/02 (2006.01) C07D 519/00 (2006.01)**

[25] EN
[54] **TRICYCLIC JANUS KINASE (JAK) INHIBITORS AND THEIR USE IN THE TREATMENT OF AUTOIMMUNE DISEASES**
[54] **INHIBITEURS DE JANUS KINASE (JAK) TRICYCLIQUES ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES AUTOIMMUNES**
[72] MEIER, KRIS, CH
[72] REYMOND, JEAN-LOUIS, CH
[71] UNIVERSITAT BERN, CH
[85] 2022-02-02
[86] 2020-09-02 (PCT/EP2020/074510)
[87] (WO2021/043850)
[30] EP (19195751.3) 2019-09-05

[21] **3,149,565**
[13] A1

[51] **Int.Cl. F17C 7/00 (2006.01)**

[25] EN
[54] **DEVICE FOR CONTINUOUSLY SUPPLYING A CONSUMER WITH GAS**
[54] **DISPOSITIF POUR ALIMENTER EN PERMANENCE UN CONSOMMATEUR EN GAZ**
[72] SCHAEERLAECKENS, RUDI, BE
[72] VAN VOSSEN, ERIK, NL
[71] MESSER GASPAC GMBH, DE
[71] MESSER B.V., NL
[85] 2022-02-02
[86] 2020-07-16 (PCT/EP2020/070150)
[87] (WO2021/028146)
[30] DE (10 2019 005 636.1) 2019-08-09

[21] **3,149,573**
[13] A1

[51] **Int.Cl. A61F 13/10 (2006.01) A61F 13/08 (2006.01)**

[25] EN
[54] **A MEDICAL COMPRESSION GARMENT WITH A SPECIAL JOINT SECTION FOR INCREASED RANGE OF MOTION**
[54] **VETEMENT DE COMPRESSION MEDICAL DOTE D'UNE SECTION D'ARTICULATION SPECIALE POUR UNE PLAGE DE MOUVEMENT ACCRUE**
[72] GANZONI, LEVIN ANDREAS, CH
[71] SIGVARIS AG, CH
[85] 2022-02-02
[86] 2020-07-13 (PCT/EP2020/069750)
[87] (WO2021/032361)
[30] CH (01039/19) 2019-08-19

[21] **3,149,561**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) B01L 7/00 (2006.01)**

[25] EN
[54] **MULTI-COLOR SYSTEM FOR REAL TIME PCR DETECTION**
[54] **SYSTEME MULTI-COULEUR POUR LA DETECTION PCR EN TEMPS REEL**
[72] ZINOVIEV, KIRILL, BE
[71] MIDIAGNOSTICS NV, BE
[85] 2022-02-02
[86] 2020-08-21 (PCT/EP2020/073509)
[87] (WO2021/037730)
[30] EP (19193420.7) 2019-08-23

Demandes PCT entrant en phase nationale

[21] **3,149,609**
[13] A1

[51] **Int.Cl. H04L 9/08 (2006.01)**
[25] EN
[54] **SECURE OUT-OF-BAND SYMMETRIC ENCRYPTION KEY DELIVERY**
[54] **DISTRIBUTION SECURISEE DE CLE DE CHIFFREMENT SYMETRIQUE HORS BANDE**
[72] PRISCO, JOHN, US
[72] SAVCHUK, GENE, US
[72] BENEDETTI, GARY, US
[72] HAY, ERIC, US
[72] MARINOS, ALIKI, US
[72] SWEENEY, STACEY, US
[71] QUANTUMXCHANGE, INC., US
[85] 2022-01-28
[86] 2020-05-15 (PCT/US2020/033293)
[87] (WO2021/025749)
[30] US (16/530,987) 2019-08-02

[21] **3,149,610**
[13] A1

[51] **Int.Cl. C12Q 1/686 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) C12N 15/11 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **SINGLE CELL ANALYSIS**
[54] **ANALYSE DE CELLULES UNIQUES**
[72] GAWAD, CHARLES, US
[72] WEST, JAY A.A., US
[71] BIOSKRYB GENOMICS, INC., US
[85] 2022-01-28
[86] 2020-07-30 (PCT/US2020/044338)
[87] (WO2021/022085)
[30] US (62/881,183) 2019-07-31

[21] **3,149,612**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 90/00 (2016.01) A61B 1/04 (2006.01) A61B 1/06 (2006.01) A61B 1/313 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **FLUORESCENCE IMAGING SYSTEM**
[54] **SYSTEME D'IMAGERIE PAR FLUORESCENCE**
[72] TSUKASHIMA, ROSS, US
[72] AMORSOLO, MILO ALFARO, US
[71] REBOUND THERAPEUTICS CORPORATION, US
[85] 2022-01-31
[86] 2020-08-21 (PCT/US2020/047415)
[87] (WO2021/041217)
[30] US (16/550,159) 2019-08-23

[21] **3,149,613**
[13] A1

[51] **Int.Cl. A61K 8/24 (2006.01) A61K 8/27 (2006.01) A61K 8/44 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ZINC PHOSPHATE CONTAINING COMPOSITIONS**
[54] **COMPOSITIONS CONTENANT DU PHOSPHATE DE ZINC**
[72] SIMON, ERIC, US
[72] XU, YUN, US
[72] LAVENDER, STACEY, US
[72] PETROU, IRENE, US
[72] HINES, DEON, US
[72] LASKOWSKI, ERIN, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2022-01-31
[86] 2020-08-26 (PCT/US2020/047928)
[87] (WO2021/041496)
[30] US (62/892,236) 2019-08-27

[21] **3,149,614**
[13] A1

[51] **Int.Cl. G02F 1/1675 (2019.01) G02F 1/167 (2019.01)**
[25] EN
[54] **ELECTRICALLY-ACTUATED VARIABLE TRANSMISSION FILM HAVING VERY LOW HAZE AND A VISIBLE GRID IN A CLEAR STATE**
[54] **FILM DE TRANSMISSION VARIABLE ACTIONNE ELECTRIQUEMENT AYANT UN TRES FAIBLE TROUBLE ET UNE GRILLE VISIBLE A L'ETAT TRANSPARENT**
[72] O'KEEFFE, DONAL MARTIN, US
[72] O'KEEFFE, TIMOTHY, US
[71] E INK CORPORATION, US
[85] 2022-01-31
[86] 2020-09-28 (PCT/US2020/053110)
[87] (WO2021/067194)
[30] GB (1914105.0) 2019-09-30
[30] GB (1914933.5) 2019-10-16

[21] **3,149,615**
[13] A1

[51] **Int.Cl. G06F 21/16 (2013.01) G06F 40/131 (2020.01) G06F 40/174 (2020.01) G06F 40/205 (2020.01) G06F 21/00 (2013.01) H04L 9/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CREATING ENHANCED DOCUMENTS FOR PERFECT AUTOMATED PARSING**
[54] **SYSTEMES ET PROCEDES DE CREATION DE DOCUMENTS AMELIORES POUR ANALYSE SYNTAXIQUE AUTOMATISEE PARFAITE**
[72] FREUNDLICH, JAMES, US
[72] GLASE, JOHN, US
[72] DAYNARD, KIP, CA
[72] BHANDARI, PUKAR, US
[71] BOLD LIMITED, BM
[85] 2022-01-31
[86] 2021-03-05 (PCT/US2021/021135)
[87] (WO2021/225687)
[30] US (63/021,968) 2020-05-08

[21] **3,149,616**
[13] A1

[51] **Int.Cl. H01M 10/6567 (2014.01) H01M 10/613 (2014.01) F28D 21/00 (2006.01) F28F 21/00 (2006.01)**
[25] EN
[54] **USE OF A COMPOSITE MATERIAL FOR ABSORBING AND DISTRIBUTING LIQUIDS IN ACTIVELY AND/OR PASSIVELY COOLED CURRENT-CARRYING SYSTEMS**
[54] **UTILISATION D'UN MATERIAU COMPOSITE SERVANT A ABSORBER ET DISTRIBUER DES LIQUIDES DANS DES SYSTEMES DE TRANSPORT DE COURANT REFROIDIS ACTIVEMENT ET/OU PASSIVEMENT**
[72] SCHNEIDER, ULRICH, DE
[72] SENNE, SARAH, DE
[72] KRITZER, PETER, DE
[71] CARL FREUDENBERG KG, DE
[85] 2022-02-01
[86] 2020-10-08 (PCT/EP2020/078201)
[87] (WO2021/069539)
[30] DE (10 2019 127 180.0) 2019-10-09

PCT Applications Entering the National Phase

[21] **3,149,617**
[13] A1

[51] **Int.Cl. G01N 15/06 (2006.01)**
[25] EN
[54] **PARTICLE SENSOR AND SENSING METHOD**
[54] **CAPTEUR DE PARTICULES ET PROCEDE DE DETECTION**
[72] NISHIDA, ROBERT, CA
[72] JOHNSON, TYLER JAMES, CA
[72] HOCHGREB, SIMONE, GB
[72] BOIES, ADAM MEYER, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2022-02-01
[86] 2020-07-30 (PCT/GB2020/051820)
[87] (WO2021/023972)
[30] GB (1911091.5) 2019-08-02
[30] GB (1919455.4) 2019-12-31

[21] **3,149,618**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 38/43 (2006.01) A61K 41/00 (2020.01) A61L 31/04 (2006.01) C12N 9/00 (2006.01) C12N 9/10 (2006.01)**
[25] EN
[54] **ULTRASOUND-TRIGGERED LIPOSOME PAYLOAD RELEASE**
[54] **LIBERATION DE CHARGE UTILE DE LIPOSOMES DECLENCHEE PAR ULTRASONS**
[72] NELE, VALERIA, GB
[72] ARMSTRONG, JAMES P., GB
[72] STEVENS, MOLLY M., GB
[72] SCHUTT IBSEN, CAROLYN, GB
[72] GRAY, MICHAEL D., GB
[72] COUSSIOS, CONSTANTIN C., GB
[71] IMPERIAL COLLEGE INNOVATIONS LTD, GB
[71] THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD, GB
[85] 2022-02-01
[86] 2020-07-31 (PCT/GB2020/051847)
[87] (WO2021/019253)
[30] GR (20190100331) 2019-08-01
[30] GB (1911235.8) 2019-08-06

[21] **3,149,619**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 9/02 (2006.01) C12N 9/78 (2006.01) C12N 9/88 (2006.01) C12N 15/53 (2006.01) C12N 15/55 (2006.01) C12N 15/85 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **GENETIC CONSTRUCT**
[54] **CONSTRUCTION GENETIQUE**
[72] MCDONALD, MICHAEL, GB
[71] HEALING GENES LLC, US
[71] PANACEA VENTURE HEALTHCARE FUND I, L.P., CN
[85] 2022-02-01
[86] 2020-08-11 (PCT/GB2020/051910)
[87] (WO2021/028675)
[30] GB (1911522.9) 2019-08-12

[21] **3,149,620**
[13] A1

[51] **Int.Cl. E05G 1/04 (2006.01) G08B 25/04 (2006.01)**
[25] EN
[54] **SECURITY SYSTEMS, APPARATUSES, METHODS, AND INTEGRATED TECHNOLOGIES INVOLVING THE SAME**
[54] **SYSTEMES, APPAREILS ET PROCEDES DE SECURITE, ET TECHNOLOGIES INTEGRES LES IMPLIQUANT**
[72] DE GEUS, MICHAEL, US
[72] CHAIT, MITCHELL, US
[71] BE READY LLC, US
[85] 2022-02-01
[86] 2020-09-14 (PCT/US2020/050726)
[87] (WO2021/030814)
[30] US (62/884,997) 2019-08-09
[30] US (16/988,646) 2020-08-08

[21] **3,149,621**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/12 (2006.01) A61P 35/00 (2006.01) C07K 14/25 (2006.01) C07K 16/28 (2006.01) C12N 15/62 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **PD-L1 BINDING MOLECULES COMPRISING SHIGA TOXIN A SUBUNIT SCAFFOLDS**
[54] **MOLECULES DE LIAISON PD-L1 COMPRENANT DES ECHAFAUDAGES DE LA SOUS-UNITE A DE LA SHIGA-TOXINE**
[72] POMA, ERIC, US
[72] RAMOS, HILARIO, US
[72] WILLERT, ERIN, US
[72] SHIMKETS, RICHARD, US
[72] JACKSON, CRYSTAL, US
[72] VINCENT, THOMAS, US
[71] MOLECULAR TEMPLATES, INC., US
[85] 2022-02-01
[86] 2020-09-18 (PCT/US2020/051589)
[87] (WO2021/055816)
[30] US (62/902,243) 2019-09-18
[30] US (62/933,197) 2019-11-08
[30] US (62/970,610) 2020-02-05
[30] US (63/041,288) 2020-06-19

[21] **3,149,622**
[13] A1

[51] **Int.Cl. F02G 5/00 (2006.01) F24D 17/00 (2022.01)**
[25] EN
[54] **POWER PLANT AND METHOD FOR OPERATING A POWER PLANT**
[54] **CENTRALE ELECTRIQUE ET PROCEDE D'EXPLOITATION DE CENTRALE ELECTRIQUE**
[72] SPYRA, NIKOLAUS, AT
[72] SCHAUMBERGER, HERBERT, AT
[72] SCHAEFFERT, PETER, AT
[72] RAINER, MARIO, AT
[72] WASSERER, MARKUS, AT
[72] KOPECEK, HERBERT, AT
[71] INNIO JENBACHER GMBH & CO OG, AT
[85] 2022-02-02
[86] 2019-08-21 (PCT/AT2019/060265)
[87] (WO2021/030849)

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[21] **3,149,623**
[13] A1

[51] **Int.Cl. A47C 1/02 (2006.01) A61G 5/04 (2013.01)**
[25] EN
[54] **MOTORISED CHAIR**
[54] **CHAISE MOTORISEE**
[72] KACHIRSKI, BILL, AU
[71] KACHIRSKI, BILL, AU
[85] 2022-02-02
[86] 2019-10-18 (PCT/AU2019/051141)
[87] (WO2021/022313)
[30] AU (2019902797) 2019-08-05

[21] **3,149,624**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/82 (2006.01)**
[25] EN
[54] **RNA MOLECULES FOR MODULATING FLOWERING IN PLANTS**
[54] **MOLECULES D'ARN POUR MODULER LA FLORAISON DANS DES PLANTES**
[72] ANDERSON, JONATHAN PAUL, AU
[72] WANG, MING BO, AU
[72] SMITH, NEIL ANDREW, AU
[72] HELLIWELL, CHRISTOPHER ANDREW, AU
[72] SWAIN, STEPHEN MARK, AU
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2022-02-02
[86] 2020-08-03 (PCT/AU2020/050796)
[87] (WO2021/022325)
[30] AU (PCT/AU2019/050814) 2019-08-02
[30] AU (2020900327) 2020-02-06

[21] **3,149,625**
[13] A1

[51] **Int.Cl. E04C 3/08 (2006.01) E04C 3/04 (2006.01) E04C 3/294 (2006.01)**
[25] EN
[54] **STEEL INSTALLATION COMPONENT FOR BUILDINGS FOR REPLACING A PREDETERMINED REGION OF A REINFORCED CONCRETE COMPONENT PROVIDING FOR LOAD BEARING**
[54] **PIECE D'INSTALLATION EN ACIER POUR BATIMENTS POUR LE REMPLACEMENT D'UNE REGION PREDETERMINEE D'UN COMPOSANT EN BETON ARME PREVU POUR RECEVOIR DES CHARGES**
[72] DRAHEIM, CHRISTOF, BE
[71] DRAHEIM, CHRISTOF, BE
[85] 2022-02-02
[86] 2019-08-08 (PCT/DE2019/000214)
[87] (WO2021/023324)

[21] **3,149,626**
[13] A1

[51] **Int.Cl. B41M 5/00 (2006.01) B41J 11/00 (2006.01) B65G 37/00 (2006.01) B65G 43/10 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DECORATING SUITCASES AND LUGGAGE ITEMS**
[54] **SYSTEME ET PROCEDE DE DECORATION DE VALISE ET D'ARTICLES DE BAGAGERIE**
[72] FERRI SOLER, JUAN, ES
[71] FERRI SOLER, JUAN, ES
[85] 2022-02-02
[86] 2020-07-02 (PCT/ES2020/070426)
[87] (WO2021/028606)
[30] ES (P201930740) 2019-08-09

[21] **3,149,627**
[13] A1

[51] **Int.Cl. G01K 1/00 (2006.01) G05D 23/19 (2006.01) H01Q 1/42 (2006.01)**
[25] EN
[54] **OPTICAL WINDOW WITH INTEGRATED TEMPERATURE SENSING**
[54] **FENETRE OPTIQUE A DETECTION DE TEMPERATURE INTEGREE**
[72] GROSSE, KYLE L., US
[72] FRAZIER, GARY A., US
[72] TRENT, CATHERINE, US
[71] RAYTHEON COMPANY, US
[85] 2022-02-02
[86] 2020-06-09 (PCT/US2020/036737)
[87] (WO2021/029943)
[30] US (16/537,214) 2019-08-09

[21] **3,149,628**
[13] A1

[51] **Int.Cl. E02F 9/26 (2006.01) E02F 9/16 (2006.01)**
[25] EN
[54] **DISPLAY INTEGRATED INTO DOOR**
[54] **DISPOSITIF D'AFFICHAGE INTEGRE DANS UNE PORTE**
[72] PFAFF, JOHN, US
[72] AGNEW, DENNIS, US
[72] SAGASER, MATTHEW, US
[71] CLARK EQUIPMENT COMPANY, US
[85] 2022-02-02
[86] 2020-06-12 (PCT/US2020/037581)
[87] (WO2021/025786)
[30] US (16/533,417) 2019-08-06
[30] US (62/934,065) 2019-11-12
[30] US (16/803,518) 2020-02-27

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[21] **3,149,629**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06F 16/25 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR GENERATING TIME-SERIES TOKEN DATA**

[54] **SYSTEME ET PROCEDE DE GENERATION DE DONNEES D'UNITES LEXICALES EN SERIE CHRONOLOGIQUE**

[72] MCHUGH, KATHERINE, US
[72] PARE, MARCUS, US
[72] KHAN, SHAHZHEEB, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-02-02
[86] 2020-07-02 (PCT/US2020/040662)
[87] (WO2021/029982)
[30] US (16/536,468) 2019-08-09

[21] **3,149,630**
[13] A1

[51] **Int.Cl. E21B 44/02 (2006.01) E21B 41/00 (2006.01) E21B 49/00 (2006.01)**

[25] EN

[54] **PROBABILISTIC MODEL CALIBRATION AND ESTIMATION FOR DRILLING STEERING CONTROL**

[54] **ETALONNAGE ET ESTIMATION DE MODELE PROBABILISTE POUR COMMANDE DE DIRECTION DE FORAGE**

[72] KELLER, ALEXANDER MATHEW, US
[72] PHO, VY, US
[72] ZALLUHOGLU, UMUT, US
[72] DARBE, ROBERT P., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-02-02
[86] 2020-07-22 (PCT/US2020/043070)
[87] (WO2021/066927)
[30] US (62/910,921) 2019-10-04
[30] US (16/926,841) 2020-07-13

[21] **3,149,631**
[13] A1

[51] **Int.Cl. H04W 12/04 (2021.01) H04W 88/06 (2009.01)**

[25] EN

[54] **KEY MANAGEMENT ON A MULTI-MODAL COMMUNICATIONS DEVICE**

[54] **GESTION DE TOUCHE SUR UN DISPOSITIF DE COMMUNICATION MULTIMODAL**

[72] BOERGER, MARK A., US
[72] LICHT, EDWARD, US
[72] TASHAROFI, SAEED, US
[71] MOTOROLA SOLUTIONS, INC., US
[85] 2022-02-02
[86] 2020-07-24 (PCT/US2020/043572)
[87] (WO2021/040929)
[30] US (16/549,761) 2019-08-23

[21] **3,149,632**
[13] A1

[51] **Int.Cl. C01G 43/01 (2006.01) G01F 1/66 (2022.01) G01N 15/10 (2006.01) G01N 15/14 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONTROLLING METAL OXIDE GEL PARTICLE SIZE**

[54] **SYSTEME ET PROCEDE DE REGULATION DE TAILLE DE PARTICULE DE GEL D'OXYDE METALLIQUE**

[72] LINNEEN, NICHOLAS, US
[71] X ENERGY, LLC, US
[85] 2022-02-02
[86] 2020-07-30 (PCT/US2020/044232)
[87] (WO2021/025941)
[30] US (16/530,695) 2019-08-02

[21] **3,149,633**
[13] A1

[51] **Int.Cl. A61K 31/047 (2006.01) A61K 31/19 (2006.01) A61K 31/197 (2006.01)**

[25] EN

[54] **COMPOSITIONS OF TROFINETIDE**

[54] **COMPOSITIONS DE TROFINETIDE**

[72] BLOWER, CLIVE, AU
[72] PETERSON, MATHEW, US
[72] SHAW, JAMES MURRAY, AU
[72] BONNAR, JAMES ANTHONY, AU
[72] MONIOTTE, ETIENNE DAVID FRANK PHILIPPE, BE
[72] BOUSMANNE, MARTIN BERNARD CATHERINE, BE
[72] BETTI, CECILIA, BE
[72] DECROOS, KAREL WILLY LUC, BE
[72] AYOUB, MIMOUN, CH
[71] NEUREN PHARMACEUTICALS LIMITED, NZ
[85] 2022-02-02
[86] 2020-08-03 (PCT/US2020/044733)
[87] (WO2021/026066)
[30] US (62/882,998) 2019-08-05

[21] **3,149,634**
[13] A1

[51] **Int.Cl. A01H 5/12 (2018.01) A01H 6/82 (2018.01) C12N 5/14 (2006.01) C12N 15/82 (2006.01)**

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[54] **TRANSCRIPTION FACTOR NTERF221 AND METHODS OF USING THE SAME**

[54] **FACTEUR DE TRANSCRIPTION NTERF221 ET SES PROCEDES D'UTILISATION**

[72] TIMKO, MICHAEL P., US
[72] LIU, HAI, US
[71] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US
[71] 22ND CENTURY LIMITED, LLC, US
[85] 2022-02-02
[86] 2020-08-04 (PCT/US2020/044831)
[87] (WO2021/026119)
[30] US (62/882,860) 2019-08-05

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[51] Int.Cl. A01H 1/00 (2006.01) C12N 15/113 (2010.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01)	[51] Int.Cl. G01L 5/00 (2006.01) F02F 3/08 (2006.01) F16C 17/08 (2006.01) F16C 33/36 (2006.01) G01L 1/22 (2006.01) G01M 13/04 (2019.01)	[51] Int.Cl. A47J 31/40 (2006.01) B65D 25/08 (2006.01) B65D 41/04 (2006.01) B65D 43/02 (2006.01) B65D 47/36 (2006.01) B65D 51/28 (2006.01)
[25] EN	[25] EN	[25] EN
[54] COMPOSITIONS AND METHODS FOR CHROMOSOME REARRANGEMENT	[54] LOAD SENSING BEARING WITH INTEGRATED SENSOR MODULE	[54] BEVERAGE-INGREDIENT CARTRIDGE AND CAP FOR BEVERAGE-INGREDIENT CARTRIDGE
[54] COMPOSITIONS ET PROCÉDES POUR LE REARRANGEMENT CHROMOSOMIQUE	[54] PALIER DE DÉTECTION DE CHARGE AVEC MODULE DE CAPTEUR INTÉGRÉ	[54] CARTOUCHE D'INGRÉDIENTS DE BOISSON ET CAPUCHON DE CARTOUCHE D'INGRÉDIENTS DE BOISSON
[72] ARMSTRONG, CHARLES LESTER, US	[72] RIEDEL, CARL, US	[72] BHAT, ADVAIT, US
[72] GASPER, MICHELLE LEE, US	[72] PHILLIPS, SCOTT, US	[72] DESHPANDE, GIRISH NILKANTH, US
[72] KOURANOV, ANDREI Y., US	[72] HOFFMANN, KIM, US	[72] RODRIGUEZ, MAXIMILIANO, US
[72] LAWRENCE, RICHARD JOSEPH, US	[72] CAMPBELL, MATTHEW, US	[72] TANTANELLA, BENJAMIN JOSEPH, US
[72] YANG, SAMUEL SUKHWAN, US	[72] PESCHKE, MICHAEL, US	[72] TELESCA, BRUNO, US
[71] MONSANTO TECHNOLOGY LLC, US	[71] REGAL BELOIT AMERICA, INC., US	[72] GRUBBS, NATHAN DANIEL, US
[85] 2022-02-02	[85] 2022-02-02	[72] KLENKE, RYAN ALAN, US
[86] 2020-08-04 (PCT/US2020/044900)	[86] 2020-08-05 (PCT/US2020/045058)	[71] PEPSICO, INC., US
[87] (WO2021/026165)	[87] (WO2021/026267)	[85] 2022-02-02
	[30] US (62/883,577) 2019-08-06	[86] 2020-08-07 (PCT/US2020/045370)
		[87] (WO2021/030180)
		[30] US (16/541,011) 2019-08-14
[21] 3,149,636 [13] A1	[21] 3,149,638 [13] A1	[21] 3,149,640 [13] A1
[51] Int.Cl. B32B 3/26 (2006.01) B32B 27/08 (2006.01) B32B 27/32 (2006.01) B32B 27/36 (2006.01)	[51] Int.Cl. A61B 17/80 (2006.01)	[51] Int.Cl. C12N 15/11 (2006.01) C12N 15/85 (2006.01)
[25] EN	[25] EN	[25] EN
[54] CONTROLLED DENSITY THERMOPLASTIC MULTILAYER FILMS	[54] DYNAMIC BONE PLATE AND METHOD OF USE	[54] USE OF PCBPI TO GENERATE INDUCED PLURIPOTENT STEM CELLS WHILE INHIBITING ONCOGENESIS
[54] FILMS MULTICOUCHES THERMOPLASTIQUES A DENSITÉ CONTRÔLÉE	[54] PLAQUE OSSEUSE DYNAMIQUE ET PROCÉDE D'UTILISATION	[54] UTILISATION DE PCBPI POUR GÉNÉRER DES CELLULES SOUCHES PLURIPOTENTES INDUITES TOUT EN INHIBANT L'ONCOGENESE
[72] SARGEANT, STEVEN, US	[72] DACOSTA, ALBERT, US	[72] LAI, NORMAN ZHENNAN, US
[72] ORTIZ-GROB, DAVID, US	[72] ALLARD, RANDY, US	[72] CROCI, ALBERTO MURAT, US
[72] GOODMAN, DAKOTA, US	[72] HUNT, RICHARD DAVID, US	[72] KARLIN, MICHAEL JOSEPH, US
[71] FLEX FILMS (USA) INC., US	[72] BARMES, FRANCIS D., US	[72] DE LA CRUZ, JR., VIDAL FELIX, US
[85] 2022-02-02	[72] BRINKER, LAURA ZAGROCKI, US	[72] TAN, YUEBIN, US
[86] 2020-08-05 (PCT/US2020/044959)	[72] ROGGOW, KENNETH ALLAN, US	[71] IBEX BIOSCIENCES, LLC, US
[87] (WO2021/026204)	[72] LIPKER, GARRETT JEFFREY, US	[85] 2022-02-02
[30] US (62/882,821) 2019-08-05	[72] KARAS, KAITLIN, US	[86] 2020-08-07 (PCT/US2020/045477)
	[71] PARAGON 28, INC., US	[87] (WO2021/026488)
	[85] 2022-02-02	[30] US (62/883,815) 2019-08-07
	[86] 2020-08-06 (PCT/US2020/045166)	
	[87] (WO2021/026331)	
	[30] US (62/883,501) 2019-08-06	

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[21] **3,149,641**
[13] A1

[51] **Int.Cl. A61K 47/10 (2017.01) A61K 31/7088 (2006.01) A61K 47/18 (2017.01) A61K 47/24 (2006.01) A61K 47/42 (2017.01) A61K 48/00 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C07K 14/00 (2006.01) C12N 15/87 (2006.01)**

[25] EN

[54] **LIPIDATED CATIONIC PEPTIDE-PEG COMPOSITIONS FOR NUCLEIC ACID DELIVERY**

[54] **COMPOSITIONS DE PEPTIDE-PEG CATIONIQUE LIPIDE DESTINEES A L'ADMINISTRATION D'ACIDES NUCLEIQUES**

[72] MCKINLAY, COLIN JAMES, US

[71] NUTCRACKER THERAPEUTICS, INC., US

[85] 2022-02-02

[86] 2020-08-07 (PCT/US2020/045508)

[87] (WO2021/030218)

[30] US (62/885,022) 2019-08-09

[30] US (62/907,470) 2019-09-27

[21] **3,149,642**
[13] A1

[51] **Int.Cl. C12M 1/36 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **MICROFLUIDIC APPARATUS AND METHODS OF USE THEREOF**

[54] **APPAREIL MICROFLUIDIQUE ET SES PROCEDES D'UTILISATION**

[72] ELDRIDGE, BENJAMIN, US

[72] WEN, XIMIAO, US

[71] NUTCRACKER THERAPEUTICS, INC., US

[85] 2022-02-02

[86] 2020-08-10 (PCT/US2020/045619)

[87] (WO2021/030268)

[30] US (62/885,159) 2019-08-09

[30] US (62/885,170) 2019-08-09

[30] US (62/914,374) 2019-10-11

[21] **3,149,643**
[13] A1

[51] **Int.Cl. A61C 5/44 (2017.01) A61B 17/16 (2006.01) A61B 17/17 (2006.01) A61B 17/58 (2006.01) A61B 17/90 (2006.01) B23B 51/00 (2006.01)**

[25] EN

[54] **UNIVERSAL KEYLESS GUIDED SURGERY SYSTEM**

[54] **SYSTEME DE CHIRURGIE GUIDEE SANS CLE UNIVERSEL**

[72] MARSHALL, TODD, US

[71] VERSAH, LLC, US

[85] 2022-02-02

[86] 2020-08-11 (PCT/US2020/045708)

[87] (WO2021/030317)

[30] US (62/886,427) 2019-08-14

[21] **3,149,644**
[13] A1

[51] **Int.Cl. E05B 15/00 (2006.01) E05B 9/08 (2006.01) E05B 15/02 (2006.01) E05B 47/02 (2006.01)**

[25] EN

[54] **MOUNTING ASSEMBLY FOR DOOR LOCK**

[54] **ENSEMBLE DE MONTAGE POUR VERROU DE PORTE**

[72] ZHAO, YONG, US

[72] MARVIN, HEATH ALLEN, US

[72] FUTRAN, CHAIM CARMIEL, US

[71] SIMPLISAFE, INC., US

[85] 2022-02-02

[86] 2020-08-12 (PCT/US2020/045880)

[87] (WO2021/030408)

[21] **3,149,645**
[13] A1

[51] **Int.Cl. A61K 38/08 (2019.01) A61P 3/04 (2006.01)**

[25] EN

[54] **THERAPEUTIC PEPTIDES**

[54] **PEPTIDES THERAPEUTIQUES**

[72] CUNDY, KENNETH, US

[71] COHBAR, INC., US

[85] 2022-02-02

[86] 2020-08-14 (PCT/US2020/046375)

[87] (WO2021/030687)

[30] US (62/887,049) 2019-08-15

[30] US (63/035,521) 2020-06-05

[21] **3,149,646**
[13] A1

[51] **Int.Cl. F16N 7/02 (2006.01) F16H 57/05 (2006.01) F16N 21/02 (2006.01) F16N 25/00 (2006.01)**

[25] EN

[54] **LUBRICATING TUBES, SYSTEMS, AND METHODS**

[54] **TUBES, SYSTEMES DE LUBRIFICATION ET PROCEDES**

[72] MOEN, RICHARD ALLEN, US

[72] PREBLE, WILLIAM THOMAS, US

[72] JOHNSON, SCOTT ALAN, US

[72] WARD, BRADY JAMES, US

[71] CASTROL LIMITED, GB

[71] MOEN, RICHARD ALLEN, US

[85] 2022-02-02

[86] 2020-08-18 (PCT/US2020/046869)

[87] (WO2021/034868)

[30] US (62/889,005) 2019-08-19

[21] **3,149,647**
[13] A1

[51] **Int.Cl. A63G 31/14 (2006.01) A63G 7/00 (2006.01) A63G 31/06 (2006.01) A63G 31/16 (2006.01) G06F 16/903 (2019.01)**

[25] EN

[54] **RESISTANCE CONTROL SYSTEMS AND METHODS FOR AMUSEMENT ATTRACTIONS**

[54] **SYSTEMES ET PROCEDES DE COMMANDE DE RESISTANCE POUR MANEGES DE PARC D'ATTRACTIONS**

[72] BLUM, STEVEN C., US

[72] STEPANIAN, MARK ALLAN, US

[72] BARNER, JORDAN DILLON, US

[72] BLANKENSHIP, TYLER JAMES, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2022-02-02

[86] 2020-08-20 (PCT/US2020/047239)

[87] (WO2021/035070)

[30] US (62/889,943) 2019-08-21

[30] US (16/687,354) 2019-11-18

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[21] **3,149,648**
[13] A1

[51] **Int.Cl. A63G 31/06 (2006.01) A63G 7/00 (2006.01) A63G 31/14 (2006.01) A63G 31/16 (2006.01)**

[25] EN

[54] **RESISTANCE CONTROL SYSTEMS AND METHODS FOR AMUSEMENT ATTRACTIONS**

[54] **SYSTEMES ET PROCEDES DE COMMANDE DE RESISTANCE POUR ATTRACTION FORAINE**

[72] STEPANIAN, MARK ALLAN, US

[72] BARNER, JORDAN DILLON, US

[72] BLANKENSHIP, TYLER JAMES, US

[72] MOGHADDAM, DAVID BOBACK, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2022-02-02

[86] 2020-08-20 (PCT/US2020/047245)

[87] (WO2021/035074)

[30] US (62/889,943) 2019-08-21

[30] US (16/687,354) 2019-11-18

[30] US (16/929,066) 2020-07-14

[21] **3,149,650**
[13] A1

[51] **Int.Cl. H04W 24/00 (2009.01)**

[25] EN

[54] **METHODS AND SYSTEM FOR ADAPTIVE MEASUREMENTS APPLIED TO REAL TIME PERFORMANCE MONITORING IN A PACKET NETWORK**

[54] **PROCEDES ET SYSTEME POUR MESURES ADAPTATIVES APPLIQUEES A UNE SURVEILLANCE DE PERFORMANCE EN TEMPS REEL DANS UN RESEAU DE PAQUETS**

[72] MCCALLEN, MICHAEL JOSEPH, CA

[72] HUDSON, DAVID VICTOR, CA

[71] CHEETAH NETWORKS, CA

[85] 2022-02-02

[86] 2020-06-19 (PCT/CA2020/050853)

[87] (WO2021/022358)

[30] US (62/883,730) 2019-08-07

[21] **3,149,651**
[13] A1

[51] **Int.Cl. A47C 7/38 (2006.01) A45D 44/10 (2006.01) A47C 16/00 (2006.01)**

[25] EN

[54] **HEAD SUPPORT DEVICE**

[54] **DISPOSITIF DE SUPPORT DE TETE**

[72] GILMOUR, NICOLE, CA

[72] CAMPBELL, ROBIN, CA

[71] GILMOUR, NICOLE, CA

[71] CAMPBELL, ROBIN, CA

[85] 2022-02-02

[86] 2020-07-31 (PCT/CA2020/051056)

[87] (WO2021/022366)

[30] US (62/882,176) 2019-08-02

[21] **3,149,652**
[13] A1

[51] **Int.Cl. A61K 47/14 (2017.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) A61K 47/12 (2006.01) A61K 47/22 (2006.01) A61K 47/24 (2006.01) A61K 47/44 (2017.01) A61K 47/46 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)**

[25] EN

[54] **ORAL FORMULATIONS OF CANNABIS EXTRACTS AND METHODS OF MAKING SAME**

[54] **PREPARATIONS DE CANNABIS POUR LA VOIE ORALE ET LEURS PROCEDES DE FABRICATION**

[72] DE CICCO, MICHAEL, CA

[72] HARWOOD, MELODY, CA

[72] FAROKHI, FERESHTEH, CA

[72] WOOD, GRAHAM, CA

[72] BROUILLETTE, FRANCOIS-KARL, CA

[71] NEPTUNE WELLNESS SOLUTIONS INC., CA

[85] 2022-02-02

[86] 2020-08-07 (PCT/CA2020/051081)

[87] (WO2021/022378)

[30] US (62/884,503) 2019-08-08

[21] **3,149,653**
[13] A1

[51] **Int.Cl. F16F 7/08 (2006.01) E04B 1/98 (2006.01) E04H 9/02 (2006.01)**

[25] EN

[54] **SELF-CENTERING CONICAL FRICTION DAMPER**

[54] **AMORTISSEUR A FRICTION CONIQUE A CENTRAGE AUTOMATIQUE**

[72] YANG, TSUNG YUAN, CA

[72] XU, HENGCHAO, CA

[72] TOBBER, LISA, CA

[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2022-02-02

[86] 2020-08-07 (PCT/CA2020/051092)

[87] (WO2021/026643)

[30] US (62/884,805) 2019-08-09

[21] **3,149,654**
[13] A1

[51] **Int.Cl. C10G 65/12 (2006.01) C10G 45/02 (2006.01) C10G 45/44 (2006.01) C10G 45/54 (2006.01)**

[25] EN

[54] **FULL CONVERSION METHOD AND DEVICE FOR PRODUCING LIGHT AROMATIC HYDROCARBONS FROM LIGHT CYCLE OIL**

[54] **PROCEDE DE CONVERSION COMPLETE ET DISPOSITIF DE PRODUCTION D'HYDROCARBURES AROMATIQUES LEGERS A PARTIR DE DIESEL CATALYTIQUE**

[72] ZHENG, JUNLIN, CN

[72] JIANG, XIANGDONG, CN

[72] SONG, QI, CN

[72] KONG, DEJIN, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN

[85] 2022-02-02

[86] 2020-08-04 (PCT/CN2020/106710)

[87] (WO2021/023172)

[30] CN (201910715616.X) 2019-08-05

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[21] **3,149,655**
[13] A1

[51] **Int.Cl. A61F 9/007 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHOD FOR SMART PHACO IN SURGICAL SYSTEMS**
[54] **SYSTEMES ET PROCEDE DE PHACOEMULSIFICATION INTELLIGENTE DANS DES SYSTEMES CHIRURGICAUX**
[72] HAJISHAH, ABRAHAM, US
[72] FUNG, EDITH, US
[72] MEHTA, DEEP, US
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2022-02-02
[86] 2020-08-12 (PCT/IB2020/057591)
[87] (WO2021/033083)
[30] US (62/888,296) 2019-08-16

[21] **3,149,656**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/024 (2006.01) A61B 5/026 (2006.01) A61B 5/08 (2006.01)**
[25] EN
[54] **A SYSTEM FOR DENOISING MOTION ARTIFACT SIGNALS AND METHOD THEREOF**
[54] **SYSTEME DE DEBRUITAGE DE SIGNAUX D'ARTEFACT DE MOUVEMENT ET PROCEDE ASSOCIE**
[72] MOSKOVICH, DANIEL DAVID, IL
[72] STEINBERG, YOCHANAN, US
[72] WEIZMAN, LIOR, IL
[71] NETEERA TECHNOLOGIES LTD., IL
[85] 2022-02-02
[86] 2020-08-12 (PCT/IL2020/050882)
[87] (WO2021/028915)
[30] US (62/885,825) 2019-08-13

[21] **3,149,657**
[13] A1

[51] **Int.Cl. C08L 29/04 (2006.01) C08J 3/24 (2006.01) C08K 3/22 (2006.01) C08L 33/02 (2006.01) C08L 67/04 (2006.01) C08L 71/02 (2006.01)**
[25] EN
[54] **COMPOSITES AND USES THEREOF**
[54] **COMPOSITES ET LEURS UTILISATIONS**
[72] BARAK, SHARON, IL
[72] KREPKER, MAX, IL
[72] BEN-ZVI BECHLER, REGEV, IL
[71] SOLUTUM TECHNOLOGIES LTD, IL
[85] 2022-02-02
[86] 2020-08-12 (PCT/IL2020/050886)
[87] (WO2021/028918)
[30] US (62/885,575) 2019-08-12

[21] **3,149,658**
[13] A1

[51] **Int.Cl. E21B 10/56 (2006.01)**
[25] EN
[54] **DRILLING TIP AND DRILLING TOOL**
[54] **POINTE DE FORAGE ET OUTIL DE FORAGE**
[72] NAKAMURA, KAZUYOSHI, JP
[72] TAKATSUKI, HIROKI, JP
[71] MMC RYOTEC CORPORATION, JP
[85] 2022-02-02
[86] 2020-01-17 (PCT/JP2020/001422)
[87] (WO2021/024512)
[30] JP (2019-145480) 2019-08-07

[21] **3,149,659**
[13] A1

[51] **Int.Cl. C04B 22/08 (2006.01) C04B 28/00 (2006.01) C04B 40/02 (2006.01) E04G 21/12 (2006.01)**
[25] EN
[54] **CEMENT GROUT MATERIAL AND INSTALLATION METHOD OF SAME**
[54] **MATERIAU DE TYPE COULIS DE CIMENT ET PROCEDE DE MISE EN PLACE DE CELUI-CI**
[72] YOSHIOKA, KENICHI, JP
[72] SUDOH, YUHJI, JP
[71] NIPPON HIGH STRENGTH CONCRETE CO., LTD., JP
[71] NISSAN CHEMICAL CORPORTION, JP
[85] 2022-02-02
[86] 2020-07-07 (PCT/JP2020/026516)
[87] (WO2021/039133)
[30] JP (2019-152449) 2019-08-23

[21] **3,149,660**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) A23L 33/135 (2016.01) A61K 35/74 (2015.01) A61P 1/16 (2006.01) A61P 3/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **NOVEL FAECALIBACTERIUM PRAUSNITZII STRAIN EB-FPDK11 AND USE THEREOF**
[54] **NOUVELLE SOUCHE DE FAECALIBACTERIUM PRAUSNITZII EB-FPDK11 ET UTILISATION ASSOCIEE**
[72] SEO, JAE GU, KR
[72] SHIN, JOO HYUN, KR
[72] LEE, DO KYUNG, KR
[71] ENTEROBIOME INC., KR
[85] 2022-02-02
[86] 2020-06-26 (PCT/KR2020/008348)
[87] (WO2021/261632)
[30] KR (10-2020-0077336) 2020-06-24

[21] **3,149,662**
[13] A1

[51] **Int.Cl. D03D 11/02 (2006.01) B60R 21/16 (2006.01) D03D 1/02 (2006.01) D03D 11/00 (2006.01)**
[25] EN
[54] **MULTI-LAYER FABRIC**
[54] **TISSU MULTICOUCHE**
[72] HEO, JIN WOOK, KR
[72] CHUNG, IL, KR
[72] KIM, KI JEONG, KR
[72] KIM, HYO EUN, KR
[71] KOLON INDUSTRIES, INC., KR
[85] 2022-02-02
[86] 2020-09-28 (PCT/KR2020/013176)
[87] (WO2021/066439)
[30] KR (10-2019-0121187) 2019-09-30
[30] KR (10-2020-0125231) 2020-09-25

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[13] A1

[51] **Int.Cl. G01M 3/04 (2006.01) E03F 5/04 (2006.01)**
[25] EN
[54] **LEAKAGE DETECTOR SYSTEM**
[54] **SYSTEME DE DETECTION DE FUITE**
[72] MAHDJOUBI NAMIN, AMIR
MEHRDAD, SE
[72] FRIBERG, MARKUS, SE
[72] HAMMER, DICK, SE
[72] RIDELL, MICHAEL, SE
[71] ORBITAL SYSTEMS AB, SE
[85] 2022-02-02
[86] 2020-08-04 (PCT/SE2020/050761)
[87] (WO2021/025607)
[30] SE (1950916-5) 2019-08-06
[30] SE (1950915-7) 2019-08-06
[30] SE (1950949-6) 2019-08-20

[21] **3,149,664**
[13] A1

[51] **Int.Cl. C01F 5/02 (2006.01) B01D 21/00 (2006.01) B01D 37/00 (2006.01) C01B 33/12 (2006.01) C01B 33/18 (2006.01) C22B 26/22 (2006.01)**
[25] EN
[54] **PRODUCTION OF FINE GRAIN MAGNESIUM OXIDE AND FIBROUS AMORPHOUS SILICA FROM SERPENTINITE MINE TAILINGS**
[54] **PRODUCTION D'OXYDE DE MAGNESIUM A GRAIN FIN ET DE SILICE AMORPHE FIBREUSE A PARTIR DE RESIDUS DE MINE DE SERPENTINITE**
[72] HOLCROFT, GILLIAN, CA
[72] SOUCY, GERVAIS, CA
[72] HAN, YUMEI, CA
[72] PINARD, DENYS, CA
[72] LALANCETTE, JEAN-MARC, CA
[71] MAG ONE OPERATIONS INC., CA
[85] 2022-02-03
[86] 2019-08-06 (PCT/CA2019/051076)
[87] (WO2020/028980)
[30] US (62/715,001) 2018-08-06

[21] **3,149,665**
[13] A1

[51] **Int.Cl. A01D 27/00 (2006.01)**
[25] EN
[54] **TRACTOR-ASSISTED MULTI-ROW HARVESTER FOR ROOT VEGETABLES**
[54] **MOISSONNEUSE MULTI-RANGEE ASSISTEE PAR TRACTEUR POUR LEGUMES-RACINES**
[72] BISAILLON, CARL, CA
[72] L'HEUREUX, SERGE, CA
[71] UNIVERCO (1978) INC., CA
[85] 2022-02-03
[86] 2020-07-30 (PCT/CA2020/000096)
[87] (WO2021/022356)
[30] US (62/883,920) 2019-08-07

[21] **3,149,666**
[13] A1

[51] **Int.Cl. G06Q 50/30 (2012.01) B60S 5/00 (2006.01)**
[25] EN
[54] **VEHICLE ASSISTANCE APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE D'ASSISTANCE POUR VEHICULE**
[72] KLEIN, KEVIN, CA
[72] SCHULLER, LEONARD ALFRED, CA
[72] SCHULLER, LINDSAY KRISTIN, CA
[71] RSR TECHNOLOGIES LTD., CA
[85] 2022-02-03
[86] 2020-07-30 (PCT/CA2020/051044)
[87] (WO2021/022362)
[30] US (62/883,516) 2019-08-06

[21] **3,149,667**
[13] A1

[51] **Int.Cl. G01N 15/10 (2006.01) B05B 12/00 (2018.01) G06N 3/08 (2006.01)**
[25] EN
[54] **FACILITATING CONTROLLED PARTICLE DEPOSITION FROM A DROPLET DISPENSER**
[54] **FACILITATION DE DEPOT CONTROLE DE PARTICULES DEPUIS UN DISTRIBUTEUR DE GOUTTELETTES**
[72] CHEUNG, KAREN CHIHMIN, CA
[72] CHENG, ERIC KIN-KWOK, CA
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2022-02-03
[86] 2020-08-06 (PCT/CA2020/051076)
[87] (WO2021/022374)
[30] US (62/884,007) 2019-08-07

[21] **3,149,668**
[13] A1

[51] **Int.Cl. A61L 27/48 (2006.01) C08L 1/02 (2006.01) C12N 1/22 (2006.01)**
[25] EN
[54] **METHOD FOR LOADING OF MICROORGANISMS ON MULTIPHASE BIOMATERIALS**
[54] **PROCEDE DE CHARGEMENT DE MICRO-ORGANISMES SUR DES BIOMATERIAUX MULTIPHASES**
[72] LANG, JURGEN ERWIN, DE
[72] TOM DIECK, HEIKE, DE
[72] SCHWARM, MICHAEL, DE
[72] AL MESLMANI, BASSAM, DE
[72] FISCHER, DAGMAR, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-01-10
[86] 2020-07-10 (PCT/EP2020/069498)
[87] (WO2021/009021)
[30] EP (19186045.1) 2019-07-12

[21] **3,149,669**
[13] A1

[51] **Int.Cl. C02F 1/28 (2006.01) C02F 1/42 (2006.01) C02F 1/66 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING WASTEWATER**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT DES EAUX USEES**
[72] AZARNOUSH, FAZLOLLAH, FI
[72] BARSTROM, ROGER, SE
[71] KEMIRA OYJ, FI
[85] 2022-01-31
[86] 2020-08-06 (PCT/US2020/045193)
[87] (WO2021/026346)
[30] US (62/883,200) 2019-08-06
[30] FI (20195746) 2019-09-10

[21] **3,149,670**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 41/00 (2020.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CETUXIMAB-IR700 CONJUGATE COMPOSITIONS**
[54] **COMPOSITIONS CONJUGUEES DE CETUXIMAB-IR700**
[72] MANIBUSAN, ANTHONY, US
[72] MAKINGS, LEWIS R., US
[71] RAKUTEN MEDICAL, INC., US
[85] 2022-01-31
[86] 2020-08-06 (PCT/US2020/045283)
[87] (WO2021/026393)
[30] US (62/883,825) 2019-08-07

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[13] A1

[51] **Int.Cl. C22C 14/00 (2006.01) C22C 22/00 (2006.01)**
[25] EN
[54] **HYDROGEN STORAGE ALLOYS**
[54] **ALLIAGES DE STOCKAGE D'HYDROGENE**
[72] AGUEY-ZINSOU, KONDO-FRANCOIS, AU
[72] LIU, WEI, AU
[72] MODI, POOJAN JITENDRA, AU
[71] NEWSOUTH INNOVATIONS PTY LTD, AU
[85] 2022-02-01
[86] 2020-08-05 (PCT/AU2020/050804)
[87] (WO2021/022330)
[30] AU (2019902796) 2019-08-05

[21] **3,149,672**
[13] A1

[51] **Int.Cl. C22C 14/00 (2006.01) C21D 9/00 (2006.01) C22C 22/00 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING HYDROGEN STORAGE ALLOYS**
[54] **PROCEDE DE FABRICATION D'ALLIAGES DE STOCKAGE DE L'HYDROGENE**
[72] AGUEY-ZINSOU, KONDO-FRANCOIS, AU
[72] LIU, WEI, AU
[71] NEWSOUTH INNOVATIONS PTY LTD, AU
[85] 2022-02-01
[86] 2020-08-05 (PCT/AU2020/050805)
[87] (WO2021/022331)
[30] AU (2019902796) 2019-08-05

[21] **3,149,673**
[13] A1

[51] **Int.Cl. A61M 11/00 (2006.01) A24F 47/00 (2020.01) A61M 11/04 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **HYBRID AEROSOL PROVISION SYSTEMS**
[54] **SYSTEME DE FOURNITURE D'AEROSOL HYBRIDE**
[72] POYNTON, SIMON, GB
[72] POTTER, MARK, GB
[72] YILMAZ, UGURHAN, GB
[72] CHEN, SHIXIANG, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-02-01
[86] 2019-08-06 (PCT/GB2019/052208)
[87] (WO2021/023953)

[21] **3,149,674**
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **INTERACTIVE ATTRACTION SYSTEM AND METHOD FOR OBJECT AND USER ASSOCIATION**
[54] **SYSTEME D'ATTRACTION INTERACTIF ET PROCEDE ASSOCIE D'ASSOCIATION D'OBJET ET D'UTILISATEUR**
[72] LIN, YU-JEN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-02-02
[86] 2020-08-20 (PCT/US2020/047248)
[87] (WO2021/035075)
[30] US (62/889,957) 2019-08-21
[30] US (16/561,812) 2019-09-05

[21] **3,149,675**
[13] A1

[51] **Int.Cl. A61B 17/29 (2006.01) A61B 90/00 (2016.01) A61B 18/14 (2006.01) A61B 17/32 (2006.01)**
[25] EN
[54] **FORCE LIMITING MECHANISM FOR SURGICAL INSTRUMENTS**
[54] **MECANISME DE LIMITATION DE FORCE POUR INSTRUMENTS CHIRURGICAUX**
[72] SZABO, AARON, US
[71] CONMED CORPORATION, US
[85] 2022-02-02
[86] 2020-08-25 (PCT/US2020/047773)
[87] (WO2021/041398)
[30] US (62/892,006) 2019-08-27
[30] US (62/900,104) 2019-09-13

[21] **3,149,676**
[13] A1

[51] **Int.Cl. A61K 8/19 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS HAVING INCREASED FOAM PRODUCTION AND METHODS FOR THE SAME**
[54] **COMPOSITIONS DE SOIN BUCCODENTAIRE PRESENTANT UNE PRODUCTION DE MOUSSE ACCRUE ET LEURS METHODES**
[72] DAS, ARADHANA, US
[72] SHEN, HONGWEI, US
[72] SIMON, ERIC, US
[72] XU, YUN, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2022-02-02
[86] 2020-08-26 (PCT/US2020/047957)
[87] (WO2021/041515)
[30] US (62/892,243) 2019-08-27

[21] **3,149,677**
[13] A1

[51] **Int.Cl. G01V 9/00 (2006.01) G01V 1/30 (2006.01)**
[25] EN
[54] **PETROPHYSICAL INVERSION WITH MACHINE LEARNING-BASED GEOLOGIC PRIORS**
[54] **INVERSION PETROPHYSIQUE AVEC DES DONNEES GEOLOGIQUES ANTERIEURES BASEES SUR UN APPRENTISSAGE PAR MACHINE**
[72] KUSHWAHA, AMIT, US
[72] SAIN, RATNANABHA, US
[72] SCHMEDES, JAN, US
[72] YANG, YUNFEI, US
[71] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[85] 2022-02-02
[86] 2020-05-06 (PCT/US2020/070030)
[87] (WO2021/026545)
[30] US (62/883,348) 2019-08-06

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[13] A1

[51] **Int.Cl. A61K 31/135 (2006.01) A61K 31/137 (2006.01) A61K 31/337 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **MONOAMINE OXIDASE B INHIBITORS FOR USE IN THE PREVENTION OR TREATMENT OF PROSTATE CARCINOMA**

[54] **INHIBITEURS DE MONOAMINE OXYDASE B A UTILISER DANS LA PREVENTION OU LE TRAITEMENT DU CARCINOME DE LA PROSTATE**

[72] GASZNERNE KORMOS, VIKTORIA, HU

[72] KALAI, TAMAS, HU

[72] MANGEL, LASZLO, HU

[72] MATYUS, PETER, HU

[72] STEIB, ANITA, HU

[72] TAMASIKNE HELYES, ZSUZSANNA, HU

[71] TOXIE EUROPE INTELLIGENS KEMIAI SZENZOROKAT KUTATO, FEJLESZTO KORLATOLT FELELOSSEGU TARSASAG, HU

[85] 2022-02-02

[86] 2020-08-05 (PCT/HU2020/050035)

[87] (WO2021/024005)

[30] HU (P1900281) 2019-08-06

[21] **3,149,679**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61P 9/00 (2006.01) A61P 37/00 (2006.01) C07K 14/30 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR BINDING ANTIBODIES AND INHIBITING NEUTRALIZING ANTIBODIES**

[54] **COMPOSITIONS ET PROCEDES DE LIAISON D'ANTICORPS ET D'INHIBITION D'ANTICORPS NEUTRALISANTS**

[72] LI, CHENGWEN, US

[72] ASKEW, CHARLES, US

[72] KUHLMAN, BRIAN, US

[72] THIEKER, DAVID FORREST, US

[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US

[85] 2022-01-26

[86] 2020-07-31 (PCT/US2020/044559)

[87] (WO2021/022187)

[30] US (62/881,765) 2019-08-01

[21] **3,149,680**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 10/08 (2012.01) G06Q 20/12 (2012.01) G06Q 20/20 (2012.01) G06Q 30/06 (2012.01) G06F 17/00 (2019.01)**

[25] EN

[54] **CANNABIS IDENTITY VERIFICATION AND EXCHANGE PLATFORM**

[54] **PLATEFORME D'ECHANGE ET DE VERIFICATION D'IDENTITE DE CANNABIS**

[72] LOS, TIMOTHY, US

[72] JOHNSON, JACOB, US

[71] RANTE CORPORATION, US

[85] 2022-01-26

[86] 2020-10-20 (PCT/US2020/056527)

[87] (WO2021/183189)

[30] US (16/812,576) 2020-03-09

[30] US (16/994,316) 2020-08-14

[30] US (17/033,254) 2020-09-25

[21] **3,149,681**
[13] A1

[51] **Int.Cl. A61K 36/15 (2006.01) A61K 31/065 (2006.01) A61K 31/34 (2006.01) A61P 35/00 (2006.01) C07C 15/14 (2006.01) C07D 307/06 (2006.01) C07D 307/33 (2006.01)**

[25] EN

[54] **A METHOD AND A COMPOUND FOR PREVENTING MAMMALIAN CANCER CELL PROLIFERATION AND FOR TREATING CANCER**

[54] **METHODE ET COMPOSE POUR LA PREVENTION DE LA PROLIFERATION DE CELLULES CANCEREUSES DE MAMMIFERES ET POUR LE TRAITEMENT DU CANCER**

[72] AHLNAS, THOMAS, FI

[72] AHLNAS, TOVEANN, FI

[71] OY GRANULA AB LTD, FI

[85] 2022-02-02

[86] 2020-08-03 (PCT/FI2020/050513)

[87] (WO2021/023914)

[30] FI (20195656) 2019-08-02

[30] FI (20205195) 2020-02-26

[21] **3,149,682**
[13] A1

[51] **Int.Cl. B65G 1/02 (2006.01) G06Q 10/08 (2012.01) B25J 5/02 (2006.01) B25J 9/16 (2006.01)**

[25] EN

[54] **AUTOMATED STORAGE AND RETRIEVAL SYSTEM REDUCING BIN MOVES BY SELECTING MULTI-STOCK BINS CONTAINING HIGHEST NUMBER OF SKUS ON WORKSTATION STOCK WAITLIST**

[54] **SYSTEME DE STOCKAGE ET DE RECUPERATION AUTOMATISE REDUISANT DES DEPLACEMENTS DE BAC PAR SELECTION DE BACS A STOCKS MULTIPLES CONTENANT LE NOMBRE LE PLUS ELEVE DE SKU SUR UNE LISTE D'ATTENTE DE STOCK DE POSTE DE TRAVAIL**

[72] GRAVELLE, SCOTT, CA

[72] LANGEN, DOUGLAS RAYMOND, CA

[72] NICHOLS, SPENCER HAYES, CA

[71] ATTABOTICS INC., CA

[85] 2022-02-03

[86] 2020-11-30 (PCT/CA2020/051641)

[87] (WO2021/108899)

[30] US (62/943,049) 2019-12-03

[30] US (63/118,860) 2020-11-27

[21] **3,149,683**
[13] A1

[51] **Int.Cl. A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 35/04 (2006.01) C07K 16/32 (2006.01)**

[25] EN

[54] **ANTI-CD33 ANTIBODIES FOR TREATING CANCER**

[54] **ANTICORPS ANTI-CD33 POUR LE TRAITEMENT DU CANCER**

[72] CHEUNG, NAI-KONG V., US

[72] HOSEINI, SAYED SHAHABUDDIN, US

[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US

[85] 2021-12-22

[86] 2020-06-25 (PCT/US2020/039687)

[87] (WO2020/264211)

[30] US (62/867,032) 2019-06-26

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[21] **3,149,684**
[13] A1

[51] **Int.Cl. F25D 3/00 (2006.01) B65D 81/18 (2006.01) B65D 81/38 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO TEMPERATURE CONTROL PACKAGES**
[54] **AMELIORATIONS D'EMBALLAGE DE REGULATION DE TEMPERATURE OU LIEES A CEUX-CI**
[72] TATTAM, EDWIN FRANCIS, GB
[72] O'HARA, PADRAIC THOMAS, GB
[72] KUHN, BAPTISTE, GB
[71] SOFTBOX SYSTEMS LIMITED, GB
[85] 2022-02-03
[86] 2020-08-05 (PCT/EP2020/025358)
[87] (WO2021/023401)
[30] GB (1911196.2) 2019-08-05

[21] **3,149,685**
[13] A1

[51] **Int.Cl. A01K 67/033 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **CONTAINER FOR TRANSPORTING AND INOCULATING PUPAE**
[54] **RECIPIENT POUR LE TRANSPORT ET L'INOCULATION DE CHRYSALIDES**
[72] MARTINEZ ESCRIBANO, JOSE ANGEL, ES
[72] CID FERNANDEZ, MIGUEL, ES
[72] REYTOR SAAVEDRA, EDEL, ES
[72] ALVARADO FRADUA, CARMEN, ES
[72] MORENO DALTON, ROMY, ES
[71] ALTERNATIVE GENE EXPRESSION S.L., ES
[85] 2022-02-03
[86] 2020-07-03 (PCT/EP2020/068777)
[87] (WO2021/023446)
[30] EP (19382690.6) 2019-08-06

[21] **3,149,686**
[13] A1

[51] **Int.Cl. B22D 41/20 (2006.01)**
[25] EN
[54] **DRIVE DEVICE FOR A STOPPER CLOSURE ON A METALLURGICAL VESSEL**
[54] **DISPOSITIF D'ENTRAINEMENT DESTINE A UNE FERMETURE A BOUCHON SUR UN RECIPIENT METALLURGIQUE**
[72] LORENZ, ROLAND, CH
[72] ROLLIN, ERICH, CH
[71] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT
[85] 2022-02-03
[86] 2020-07-03 (PCT/EP2020/068883)
[87] (WO2021/032354)
[30] EP (19192630.2) 2019-08-20

[21] **3,149,687**
[13] A1

[51] **Int.Cl. A01K 67/033 (2006.01)**
[25] EN
[54] **INSECT REARING BOX**
[54] **BOITE D'ELEVAGE D'INSECTES**
[72] MARTINEZ ESCRIBANO, JOSE ANGEL, ES
[72] CID FERNANDEZ, MIGUEL, ES
[72] REYTOR SAAVEDRA, EDEL, ES
[72] ALVARADO FRADUA, CARMEN, ES
[72] MORENO DALTON, ROMY, ES
[71] ALTERNATIVE GENE EXPRESSION S.L., ES
[85] 2022-02-03
[86] 2020-07-10 (PCT/EP2020/069657)
[87] (WO2021/023475)
[30] EP (19382692.2) 2019-08-06

[21] **3,149,688**
[13] A1

[51] **Int.Cl. G06Q 20/00 (2012.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MICROPAYMENT SUPPORT TO BLOCKCHAIN INCENTIVIZED, DECENTRALIZED DATA STREAMING AND DELIVERY**
[54] **PROCEDES ET SYSTEMES DE PRISE EN CHARGE DE MICROPAIEMENT POUR LA TRANSMISSION EN CONTINU ET LA DISTRIBUTION DE DONNEES DECENTRALISEES INITIEES PAR CHAINE DE BLOCS**
[72] LONG, JIEYI, US
[72] LIU, MITCHELL C., US
[71] THETA LABS, INC., US
[85] 2022-01-27
[86] 2020-07-30 (PCT/US2020/070336)
[87] (WO2021/022305)
[30] US (62/880,682) 2019-07-31
[30] US (62/914,176) 2019-10-11
[30] US (16/726,148) 2019-12-23

[21] **3,149,689**
[13] A1

[51] **Int.Cl. C07C 15/04 (2006.01) C07D 249/06 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **IMPROVED SYNTHETIC METHODS OF MAKING (2H-1,2,3-TRIAZOL-2-YL)PHENYL COMPOUNDS AS OREXIN RECEPTOR MODULATORS**
[54] **PROCEDES SYNTHETIQUES AMELIORES POUR LA FABRICATION DE COMPOSES DE (2H-1,2,3-TRIAZOL-2-YL)PHENYLE UTILISES COMME MODULATEURS DES RECEPTEURS DE L'OREXINE**
[72] DEPPE, DOMINIQUE PAUL M, BE
[72] MATCHA, KIRAN, BE
[72] MEDINA, FLORIAN DAMIEN, BE
[72] WESTERDUIN, PIETER, BE
[72] CHEN, CHENG YI, CH
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2022-02-03
[86] 2020-08-06 (PCT/EP2020/072192)
[87] (WO2021/023843)
[30] US (62/883,857) 2019-08-07
[30] US (62/971,265) 2020-02-07

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[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/6806 (2018.01)**
[25] EN
[54] **NOVEL NUCLEIC ACID PURIFICATION CHEMISTRY**
[54] **NOUVELLE CHIMIE DE PURIFICATION D'ACIDES NUCLEIQUES**
[72] HAESSENDONCKX, MAX, BE
[71] BIOCARTIS NV, BE
[85] 2022-02-03
[86] 2020-08-07 (PCT/EP2020/072225)
[87] (WO2021/023854)
[30] EP (19190647.8) 2019-08-08

[21] **3,149,691**
[13] A1

[51] **Int.Cl. C12N 5/077 (2010.01) A61L 27/38 (2006.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR IN VITRO PRODUCTION OF HYALINE CARTILAGE TISSUE**
[54] **PROCEDE DE PRODUCTION IN VITRO DE TISSU CARTILAGINEUX HYALIN**
[72] TIENG, VANNARY, CH
[71] VANARIX SA, CH
[85] 2022-02-03
[86] 2020-08-07 (PCT/EP2020/072237)
[87] (WO2021/028335)
[30] EP (19191756.6) 2019-08-14

[21] **3,149,692**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01)**
[25] EN
[54] **PEPTIDE ANTIGENS AND USES THEREOF**
[54] **ANTIGENES PEPTIDIQUES ET LEURS UTILISATIONS**
[72] KALLIKOURDIS, MARINOS, IT
[72] MARTINI, ELISA, IT
[72] CONDORELLI, GIANLUIGI, IT
[71] HUMANITAS MIRASOLE S.P.A., IT
[71] HUMANITAS UNIVERSITY, IT
[85] 2022-02-03
[86] 2020-08-07 (PCT/EP2020/072239)
[87] (WO2021/028337)
[30] IT (102019000014541) 2019-08-09

[21] **3,149,693**
[13] A1

[51] **Int.Cl. A61K 35/745 (2015.01) A23K 20/00 (2016.01) A23L 33/00 (2016.01) A23L 33/125 (2016.01) A23L 33/135 (2016.01) A23L 33/15 (2016.01) A23L 33/16 (2016.01) A61K 31/047 (2006.01) A61K 31/7004 (2006.01) A61K 33/30 (2006.01)**
[25] EN
[54] **MYO-INOSITOL AND THE PREVENTION OF PRETERM BIRTH**
[54] **MYO-INOSITOL ET PREVENTION DE LA NAISSANCE PREMATUREE**
[72] NEMBRINI, CHIARA, CH
[72] SILVA ZOLEZZI, IRMA, SG
[72] GODFREY, KEITH MALCOLM, GB
[72] CUTFIELD, WAYNE, NZ
[72] CHAN, SHIAO-YNG, SG
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-02-03
[86] 2020-08-21 (PCT/EP2020/073451)
[87] (WO2021/037699)
[30] EP (19193541.0) 2019-08-26
[30] EP (20181466.2) 2020-06-22

[21] **3,149,694**
[13] A1

[51] **Int.Cl. B65D 85/816 (2006.01) A47J 31/06 (2006.01) A47J 31/24 (2006.01) B65D 81/34 (2006.01)**
[25] EN
[54] **CARTRIDGE SYSTEM AND METHOD FOR PRODUCING A CARTRIDGE SYSTEM**
[54] **SYSTEME DE CARTOUCHE ET PROCEDE DE PRODUCTION D'UN SYSTEME DE CARTOUCHE**
[72] KRUEGER, MARC, DE
[72] EMPL, GUENTER, DE
[71] FREEZIO AG, CH
[85] 2022-02-03
[86] 2020-08-24 (PCT/EP2020/073627)
[87] (WO2021/032892)
[30] DE (10 2019 212 583.2) 2019-08-22

[21] **3,149,695**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] EN
[54] **GAS ISOLATED STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE ISOLE AU GAZ**
[72] FJELDHEIM, IVAR, NO
[72] AUSTRHEIM, TROND, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2022-02-03
[86] 2020-08-25 (PCT/EP2020/073748)
[87] (WO2021/058217)
[30] NO (20191157) 2019-09-25

[21] **3,149,696**
[13] A1

[51] **Int.Cl. F16F 1/36 (2006.01) F16F 7/00 (2006.01)**
[25] EN
[54] **MONO-STRUCTURE**
[54] **MONO-STRUCTURE**
[72] SMITH, LUKE, GB
[71] THREE SMITH GROUP LIMITED, GB
[85] 2022-02-03
[86] 2020-07-31 (PCT/GB2020/051851)
[87] (WO2021/023981)
[30] GB (1911319.0) 2019-08-07

[21] **3,149,698**
[13] A1

[51] **Int.Cl. E01F 9/627 (2016.01) F16F 1/36 (2006.01)**
[25] EN
[54] **IMPACT ABSORBING POST**
[54] **MONTANT D'ABSORPTION D'IMPACT**
[72] SMITH, LUKE, GB
[71] THREE SMITH GROUP LIMITED, GB
[85] 2022-02-03
[86] 2020-07-31 (PCT/GB2020/051854)
[87] (WO2021/023983)
[30] GB (1911318.2) 2019-08-07

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[21] **3,149,699**
[13] A1

[51] **Int.Cl. A61L 9/01 (2006.01) A61L 9/04 (2006.01)**
[25] EN
[54] **A METHOD FOR REDUCING MALODOUR USING CUCURBITRILS**
[54] **PROCEDE DE REDUCTION DES MAUVAISES ODEURS A L'AIDE DE CUCURBITURILES**
[72] HOWE, ANDREW, GB
[72] CHEESMAN, BENJAMIN THOMAS, GB
[72] SEEM, TIM CHAN, GB
[72] PEDDER, MICHAEL, GB
[72] ESSELIN, NICOLAS, GB
[72] COULSTON, ROGER, GB
[72] DE ROOIJ, JOHANNES GERARDUS, NL
[71] AQDOT LIMITED, GB
[85] 2022-02-03
[86] 2020-08-05 (PCT/GB2020/051867)
[87] (WO2021/023989)
[30] GB (1911194.7) 2019-08-05

[21] **3,149,700**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61P 43/00 (2006.01)**
[25] EN
[54] **CONJUGATE AND USES THEREOF**
[54] **CONJUGUES ET LEURS UTILISATIONS**
[72] WOOD, MATTHEW, GB
[72] VARELA, MIGUEL, GB
[72] HOLLAND, ASHLING, GB
[72] RAZ, RICHARD, GB
[72] FURLING, DENIS, FR
[72] KLEIN, ARNAUD, FR
[72] GAIT, MICHAEL, GB
[71] OXFORD UNIVERSITY INNOVATION LIMITED, GB
[71] UNITED KINGDOM RESEARCH AND INNOVATION, GB
[71] ASSOCIATION INSTITUT DE MYOLOGIE, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] SORBONNE UNIVERSITE, FR
[85] 2022-02-03
[86] 2020-08-07 (PCT/GB2020/051891)
[87] (WO2021/028666)
[30] GB (1911403.2) 2019-08-09

[21] **3,149,702**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/437 (2006.01) A61P 25/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TREATMENT OF FRAGILE X SYNDROME**
[54] **TRAITEMENT DU SYNDROME DE L'X FRAGILE**
[72] BROWN, DAVID, GB
[71] HEALX LTD, GB
[85] 2022-02-03
[86] 2020-08-14 (PCT/GB2020/051949)
[87] (WO2021/028698)
[30] GB (1911603.7) 2019-08-14

[21] **3,149,703**
[13] A1

[51] **Int.Cl. A23L 7/117 (2016.01) A23L 7/122 (2016.01) A23L 7/17 (2016.01) A23L 29/00 (2016.01) A23L 29/10 (2016.01) A23L 29/212 (2016.01) A23L 29/30 (2016.01) A23L 33/115 (2016.01) A23L 33/125 (2016.01) A23L 33/15 (2016.01) A23L 33/185 (2016.01) A23P 30/20 (2016.01) A23P 30/25 (2016.01) A23P 30/34 (2016.01) A23P 30/38 (2016.01) A21C 11/16 (2006.01)**
[25] EN
[54] **EDIBLE CHEW FOR A HUMAN CHILD AND METHODS OF MAKING AND USING THE EDIBLE CHEW**
[54] **PRODUIT A MACHER COMESTIBLE POUR ENFANT HUMAIN ET PROCEDES DE FABRICATION ET D'UTILISATION DU PRODUIT A MACHER COMESTIBLE**
[72] DARU, STEPHANIE CAROLE HENRIETTE, CH
[72] SCHNEIDER, NORA, CH
[72] TAHIR, ZOOBIA, CH
[72] MAHE, YANNICK, CH
[72] SISIYAK, LAURENT JEAN-JACQUES, CH
[72] SMITH-SIMPSON, SARAH ELIZABETH, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-02-03
[86] 2020-04-10 (PCT/IB2020/053451)
[87] (WO2021/059026)
[30] US (62/906,773) 2019-09-27
[30] US (16/691,997) 2019-11-22

[21] **3,149,704**
[13] A1

[51] **Int.Cl. A61B 17/74 (2006.01) A61B 17/88 (2006.01) A61B 17/17 (2006.01) A61B 17/72 (2006.01) A61B 17/92 (2006.01)**
[25] EN
[54] **GUIDE SLEEVE FOR FINE AXIAL ADJUSTABILITY OF A FIXATION MEMBER, AND RELATED SYSTEMS**
[54] **MANCHON DE GUIDAGE POUR AJUSTABILITE AXIALE FINE D'UN ELEMENT DE FIXATION, ET SYSTEMES ASSOCIES**
[72] FLINTROP, ANDREW, US
[72] KEYER, THOMAS, US
[72] KMIIEC, STANLEY JR., US
[72] SIBOLE, ALEXANDRA, US
[72] PAPPALARDO, DANA, US
[72] COWENS, DAVID, US
[72] MCMANUS, JOSHUA, US
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2022-02-03
[86] 2020-07-27 (PCT/IB2020/057080)
[87] (WO2021/024086)
[30] US (16/531,747) 2019-08-05

[21] **3,149,706**
[13] A1

[51] **Int.Cl. A61P 27/02 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING OCULAR DISEASES**
[54] **METHODES DE TRAITEMENT DE MALADIES OCULAIRES**
[72] MARGARON, PHILIPPE MARIA CLOTAIRE, CH
[72] GEKKIEVA, MARGARITA, CH
[71] NOVARTIS AG, CH
[85] 2022-02-03
[86] 2020-09-11 (PCT/IB2020/058459)
[87] (WO2021/048806)
[30] US (62/899,892) 2019-09-13
[30] US (62/971,405) 2020-02-07

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[21] **3,149,707**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY WITH ENTPD2 AND CD73 ANTIBODIES**

[54] **POLYTHERAPIE AVEC DES ANTICORPS ANTI ENTPD2 ET CD73**

[72] DIDONATO, MICHAEL, US
[72] DOSTALEK, MIREK, CH
[72] ERKEL, CHRISTOPH, DE
[72] ESTRADA DIEZ, JAVIER, US
[72] GALKIN, ANNA, US
[72] GLASER, SCOTT MARTIN, US
[72] HARTLEPP, KLAUS FELIX, DE
[72] JIA, YONG, US
[72] KNEE, DEBORAH A., US
[72] KRAUS, ALEXANDRA, DE
[72] LEE, CHRISTIAN CHO-HUA, US
[72] MANENTI, LUIGI, US
[72] RUE, SARAH MICHELLE, US
[72] SHI, JIAN, US
[72] WEZLER, XENIA KAROLA, DE
[72] WONG, GABRIELLE, US
[71] NOVARTIS AG, CH
[85] 2022-02-03
[86] 2020-09-17 (PCT/IB2020/058649)
[87] (WO2021/053560)
[30] US (62/902,161) 2019-09-18
[30] US (63/023,446) 2020-05-12

[21] **3,149,708**
[13] A1

[51] **Int.Cl. A01N 37/16 (2006.01) A01N 31/02 (2006.01) A01N 37/02 (2006.01) A01N 37/36 (2006.01) A01N 57/12 (2006.01) A01N 59/02 (2006.01) A01N 59/16 (2006.01) A01N 59/20 (2006.01) A01P 1/00 (2006.01)**

[25] EN

[54] **ANTIMICROBIAL COMPOSITIONS CONTAINING PEROXYPHTHALIC ACID AND/OR SALT THEREOF**

[54] **COMPOSITIONS ANTIMICROBIENNES CONTENANT DE L'ACIDE PEROXYPHTHALIQUE ET/OU UN SEL DE CELUI-CI**

[72] ALDERSON, FARAZ AHMADPOUR, CA
[71] VIROX TECHNOLOGIES INC., CA
[85] 2022-02-03
[86] 2021-02-08 (PCT/IB2021/051004)
[87] (WO2021/161148)
[30] US (62/972,344) 2020-02-10

[21] **3,149,709**
[13] A1

[51] **Int.Cl. G02B 6/40 (2006.01) G02B 6/44 (2006.01)**

[25] EN

[54] **INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON**

[54] **RUBAN DE FIBRE OPTIQUE BRANCHE DE FACON INTERMITTENTE**

[72] MURAKOSHI, YOSHIE, JP
[72] NAMAZUE, AKIRA, JP
[72] OSATO, KEN, JP
[71] FUJIKURA LTD., JP
[85] 2022-02-03
[86] 2020-05-12 (PCT/JP2020/018938)
[87] (WO2021/033374)
[30] JP (2019-151467) 2019-08-21

[21] **3,149,714**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61K 31/519 (2006.01) A61K 47/38 (2006.01) A61P 19/06 (2006.01)**

[25] EN

[54] **DRUG FOR TREATING GOUT OR HYPERURICEMIA**

[54] **MEDICAMENT POUR TRAITER LA GOUTTE OU L'HYPERURICEMIE**

[72] KOBAYASHI, SHIRO, JP
[72] MIYAYAMA, ERI, JP
[72] HIRANO, MASUHARU, JP
[72] OHTA, TAKASHI, JP
[71] NIPPON CHEMIPHAR CO., LTD., JP
[85] 2022-02-03
[86] 2020-06-04 (PCT/JP2020/022039)
[87] (WO2020/246528)
[30] JP (2019-104534) 2019-06-04

[21] **3,149,791**
[13] A1

[51] **Int.Cl. F16H 61/12 (2010.01) F16D 25/12 (2006.01) F16H 61/686 (2006.01)**

[25] EN

[54] **TRANSFER SYSTEM OF WORK MACHINE, WORK MACHINE, AND METHOD OF PREDICTING LIFETIME OF TRANSFER SYSTEM IN WORK MACHINE**

[54] **SYSTEME DE TRANSMISSION POUR MACHINE DE TRAVAIL, MACHINE DE TRAVAIL, ET PROCEDE DE PREDICTION DE DUREE DE VIE POUR SYSTEME DE TRANSMISSION DANS UNE MACHINE DE TRAVAIL**

[72] IIDA, HIROKI, JP
[72] SASAKI, TAKATOSHI, JP
[72] KATOU, MASAYA, JP
[71] KOMATSU LTD., JP
[85] 2022-02-03
[86] 2020-06-15 (PCT/JP2020/023326)
[87] (WO2021/053903)
[30] JP (2019-172030) 2019-09-20

[21] **3,149,792**
[13] A1

[51] **Int.Cl. B60T 17/00 (2006.01) B60T 17/22 (2006.01) B61H 13/34 (2006.01)**

[25] EN

[54] **AIR DRYER WITH PREFILTRATION STAGE BYPASS**

[54] **DESSICCATEUR A AIR AVEC DERIVATION D'ETAGE DE PREFILTRATION**

[72] WRIGHT, ERIC C., US
[72] CALL, DERICK, US
[71] NEW YORK AIR BRAKE LLC, US
[85] 2022-02-03
[86] 2019-08-14 (PCT/US2019/046444)
[87] (WO2021/029880)
[30] US (16/540,157) 2019-08-14

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[21] **3,149,793**
[13] A1

[51] **Int.Cl. F16K 15/06 (2006.01) E21B 43/26 (2006.01) F04B 15/02 (2006.01) F04B 53/10 (2006.01) F16K 1/32 (2006.01)**

[25] EN

[54] **HORIZONTAL BALANCED GUIDED VALVE**

[54] **SOUPAPE GUIDEE EQUILIBREE HORIZONTALE**

[72] GILLISPIE, ARIC MARTIN, US
[72] OLIS, JAMES ALAN, US
[72] STRIBLING, DAVID MARK, US
[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2022-02-03
[86] 2020-03-23 (PCT/US2020/024293)
[87] (WO2021/133423)
[30] US (62/953,411) 2019-12-24
[30] US (16/810,578) 2020-03-05

[21] **3,149,794**
[13] A1

[51] **Int.Cl. G06F 11/00 (2006.01)**

[25] EN

[54] **ERROR HANDLING DURING ASYNCHRONOUS PROCESSING OF SEQUENTIAL DATA BLOCKS**

[54] **TRAITEMENT D'ERREUR PENDANT UN TRAITEMENT ASYNCHRONE DE BLOCS DE DONNEES SEQUENTIELS**

[72] KINGSLEY, CHRISTOPHER H., US
[72] HARDING, EDWARD P., JR., US
[71] ALTERYX, INC., US

[85] 2022-02-03
[86] 2020-06-30 (PCT/US2020/040245)
[87] (WO2021/025810)
[30] US (16/533,302) 2019-08-06

[21] **3,149,795**
[13] A1

[51] **Int.Cl. B65D 81/05 (2006.01) B65B 5/06 (2006.01) B65D 81/07 (2006.01)**

[25] EN

[54] **INFLATIBLE PACKAGING BOX**

[54] **BOITE D'EMBALLAGE GONFLABLE**

[72] RABINOVICH, MICHAEL, US
[72] RABINOVICH, ALEKSEY, US
[71] RABINOVICH, MICHAEL, US

[85] 2022-02-03
[86] 2020-07-06 (PCT/US2020/040869)
[87] (WO2021/025816)
[30] US (16/531,199) 2019-08-05

[21] **3,149,796**
[13] A1

[51] **Int.Cl. A61K 35/02 (2015.01) A61K 31/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TREATMENT OF CANINE CANCERS**

[54] **TRAITEMENT DE CANCERS CANINS**

[72] LEWIS, BENJAMIN, US
[72] LOPES, CHRISTINA KELLY, US
[72] LAMBERT, LINDSAY, US
[72] HARVEY, GARRETT, US
[72] ALLEN, THADDEUS A., US
[72] MILLER, AUBREY, US
[72] RODRIGUES, LUCAS, US
[72] LUKER, MADISON, US
[72] POST, GERALD, US
[71] ONEHEALTHCOMPANY, INC., US

[85] 2022-02-01
[86] 2020-08-02 (PCT/US2020/044689)
[87] (WO2021/026046)
[30] US (62/882,401) 2019-08-02
[30] US (62/897,872) 2019-09-09
[30] US (62/898,888) 2019-09-11
[30] US (62/899,932) 2019-09-13
[30] US (62/901,185) 2019-09-16
[30] US (62/902,889) 2019-09-19
[30] US (62/904,987) 2019-09-24
[30] US (62/906,924) 2019-09-27
[30] US (62/909,098) 2019-10-01

[21] **3,149,797**
[13] A1

[51] **Int.Cl. F24C 7/02 (2006.01) A47B 77/08 (2006.01) F24C 15/02 (2006.01) F24C 15/16 (2006.01)**

[25] EN

[54] **HEATING COOKING DEVICE**

[54] **DISPOSITIF DE CUISSON PAR CHAUFFAGE**

[72] SHINOHARA, YU, JP
[71] SHARP KABUSHIKI KAISHA, JP

[85] 2022-02-03
[86] 2020-08-03 (PCT/JP2020/029691)
[87] (WO2021/024989)
[30] JP (2019-145383) 2019-08-07

[21] **3,149,798**
[13] A1

[51] **Int.Cl. C01B 6/21 (2006.01) C01B 3/00 (2006.01)**

[25] EN

[54] **SODIUM BOROHYDRIDE PRODUCTION METHOD**

[54] **PROCEDE DE PRODUCTION DE BOROHYDRURE DE SODIUM**

[72] SUGITA, KAORU, JP
[72] OOTA, YUJI, JP
[72] ABE, RENE YO, JP
[72] HACHISU, TAKUMA, JP
[72] MATSUNAGA, TAKEHIRO, JP
[71] NIPPON LIGHT METAL COMPANY, LTD., JP

[71] NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, JP

[85] 2022-02-03
[86] 2020-08-05 (PCT/JP2020/030034)
[87] (WO2021/025068)
[30] JP (2019-144883) 2019-08-06
[30] JP (2020-114417) 2020-07-01

[21] **3,149,799**
[13] A1

[51] **Int.Cl. C01B 6/21 (2006.01) C01B 3/00 (2006.01) C01B 6/15 (2006.01)**

[25] EN

[54] **SODIUM BOROHYDRIDE PRODUCTION METHOD**

[54] **PROCEDE DE PRODUCTION DE BOROHYDRURE DE SODIUM**

[72] SUGITA, KAORU, JP
[72] OOTA, YUJI, JP
[72] ABE, RENE YO, JP
[72] HACHISU, TAKUMA, JP
[72] MATSUNAGA, TAKEHIRO, JP
[71] NIPPON LIGHT METAL COMPANY, LTD., JP

[71] NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, JP

[85] 2022-02-03
[86] 2020-08-05 (PCT/JP2020/030035)
[87] (WO2021/025069)
[30] JP (2019-144884) 2019-08-06
[30] JP (2020-114418) 2020-07-01

Demandes PCT entrant en phase nationale

[21] **3,149,801**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY INVOLVING ANTIBODIES AGAINST CLAUDIN 18.2 AND IMMUNE CHECKPOINT INHIBITORS FOR TREATMENT OF CANCER**

[54] **POLYTHERAPIE IMPLIQUANT DES ANTICORPS DIRIGES CONTRE LA CLAUDINE 18.2 ET INHIBITEURS DE POINT DE CONTROLE IMMUNITAIRE POUR LE TRAITEMENT DU CANCER**

[72] YAMADA, TOMOHIRO, JP
[71] ASTELLAS PHARMA INC., JP
[85] 2022-02-03
[86] 2020-08-05 (PCT/JP2020/030737)
[87] (WO2021/025177)
[30] IB (PCT/IB2019/056680) 2019-08-06

[21] **3,149,802**
[13] A1

[51] **Int.Cl. A61K 31/4178 (2006.01) A61K 47/08 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/22 (2006.01) A61K 47/32 (2006.01) A61K 47/34 (2017.01) A61P 31/10 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION CONTAINING ANTIFUNGAL AGENT AS ACTIVE INGREDIENT**

[54] **COMPOSITION PHARMACEUTIQUE CONTENANT UN AGENT ANTIFONGIQUE EN TANT QUE PRINCIPE ACTIF**

[72] ITO, MASAHIRO, JP
[72] MATSUI, KIYOTAKA, JP
[72] INUMA, MASAMI, JP
[71] SATO PHARMACEUTICAL CO., LTD., JP
[85] 2022-02-03
[86] 2020-08-07 (PCT/JP2020/030350)
[87] (WO2021/029350)
[30] JP (2019-148620) 2019-08-13

[21] **3,149,805**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/073 (2010.01) C12N 5/00 (2006.01)**

[25] EN

[54] **IMPROVED METHODS FOR MAKING ORGANOID COMPOSITIONS**

[54] **PROCEDES AMELIORES DE FABRICATION DE COMPOSITIONS ORGANOIDES**

[72] MAYHEW, CHRISTOPHER NORMAN, US
[72] WELLS, JAMES MACORMACK, US
[72] PITSTICK, AMY LEE, US
[71] CHILDREN'S HOSPITAL MEDICAL CENTER, US
[85] 2022-02-03
[86] 2020-08-11 (PCT/US2020/045809)
[87] (WO2021/030373)
[30] US (62/885,903) 2019-08-13

[21] **3,149,806**
[13] A1

[51] **Int.Cl. H04N 19/12 (2014.01) H04N 19/154 (2014.01) H04N 19/179 (2014.01)**

[25] EN

[54] **COMPARING VIDEO ENCODERS/DECODERS USING SHOT-BASED ENCODING AND A PERCEPTUAL VISUAL QUALITY METRIC**

[54] **COMPARAISON DE CODEURS/DECODEURS VIDEO A L'AIDE D'UN CODAGE BASE SUR UNE PRISE DE VUE ET D'UNE METRIQUE DE QUALITE VISUELLE PERCEPTIVE**

[72] KATSAVOUNIDIS, IOANNIS, US
[72] GUO, LIWEI, US
[71] NETFLIX, INC., US
[85] 2022-02-03
[86] 2020-08-12 (PCT/US2020/046017)
[87] (WO2021/034578)
[30] US (16/543,476) 2019-08-16

[21] **3,149,808**
[13] A1

[51] **Int.Cl. G06F 21/32 (2013.01) G06V 40/16 (2022.01) G06V 40/40 (2022.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR CREATION AND USE OF DIGITAL IDENTIFICATION**

[54] **PROCEDE ET APPAREIL DE CREATION ET D'UTILISATION D'IDENTIFICATION NUMERIQUE**

[72] TUSSY, KEVIN ALAN, US
[72] ROSE, JOSH, US
[71] FACETEC, INC., US
[85] 2022-02-03
[86] 2020-08-13 (PCT/US2020/046245)
[87] (WO2021/030634)
[30] US (16/539,950) 2019-08-13

[21] **3,149,810**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/22 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **TGF-BETA TRAP**

[54] **PIEGE TGF-BETA**

[72] LIU, PHILIP, US
[72] HIGASHIDE, WENDY, US
[72] OLSON, C. ANDERS, US
[72] NIAZI, KAYVAN, US
[71] NANTBIO, INC., US
[85] 2022-02-03
[86] 2020-08-14 (PCT/US2020/046311)
[87] (WO2021/030662)
[30] US (62/887,272) 2019-08-15

PCT Applications Entering the National Phase

[21] **3,149,811**
[13] A1

[51] **Int.Cl. B28C 5/42 (2006.01) G01N 9/16 (2006.01)**

[25] EN

[54] **PROBE AND METHOD FOR MONITORING FRESH CONCRETE USING AN ELECTROMECHANICAL ACTUATOR**

[54] **SONDE ET PROCEDE DE SURVEILLANCE DE BETON FRAIS A L'AIDE D'UN ACTIONNEUR ELECTROMECHANIQUE**

[72] BEAUPRE, DENIS, CA

[72] CHAPDELAIN, JEROME, CA

[72] JEAN, ROBIN, CA

[71] COMMAND ALKON INCORPORATED, US

[85] 2022-02-03

[86] 2021-03-01 (PCT/US2021/020212)

[87] (WO2021/178278)

[30] US (62/983,949) 2020-03-02

[21] **3,149,816**
[13] A1

[51] **Int.Cl. F16M 11/18 (2006.01) B66D 1/28 (2006.01) E21B 47/00 (2012.01) F16M 11/12 (2006.01) H04N 5/225 (2006.01)**

[25] EN

[54] **INSPECTION SYSTEM INCLUDING A SELF-STABILIZING ASSEMBLY**

[54] **SYSTEME D'INSPECTION COMPRENANT UN ENSEMBLE AUTO-STABILISATEUR**

[72] BENTSEN, JUSTIN, US

[71] INTERACTIVE AERIAL, INC., US

[85] 2022-02-03

[86] 2020-08-27 (PCT/US2020/048165)

[87] (WO2021/055151)

[30] US (62/903,002) 2019-09-20

[30] US (63/015,196) 2020-04-24

[30] US (16/996,585) 2020-08-18

[21] **3,149,817**
[13] A1

[51] **Int.Cl. A61K 35/741 (2015.01) A61K 35/747 (2015.01) A61K 31/202 (2006.01) A61K 36/02 (2006.01) A61K 36/31 (2006.01) A61P 1/00 (2006.01) A61P 1/14 (2006.01) A61P 3/10 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS OF PROBIOTICS AND BIOMASS AND METHODS FOR PROMOTING HEALTH IN A SUBJECT**

[54] **COMPOSITIONS DE PROBIOTIQUES ET DE BIOMASSE ET PROCEDES POUR FAVORISER LA SANTE CHEZ UN SUJET**

[72] AUGUSTIN, MARY ANN, AU

[72] SANGUANSRI, LUZ, AU

[72] CONLON, MICHAEL, AU

[72] HLAING, MYA MYINTZU, AU

[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU

[85] 2022-02-04

[86] 2020-08-06 (PCT/AU2020/050811)

[87] (WO2021/022336)

[30] AU (2019902828) 2019-08-07

[21] **3,149,819**
[13] A1

[51] **Int.Cl. A61K 31/7042 (2006.01) A61K 31/7048 (2006.01) A61P 31/10 (2006.01) C07H 17/00 (2006.01) C07H 17/04 (2006.01) C07H 17/08 (2006.01)**

[25] EN

[54] **HYBRID AMPHOTERICIN B DERIVATIVES WITH REDUCED TOXICITY**

[54] **DERIVES D'AMPHOTERICINE B HYBRIDES A TOXICITE REDUITE**

[72] BURKE, MARTIN D., US

[72] MAJI, ARUN, US

[72] ZHANG, JIABAO, US

[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US

[85] 2022-02-03

[86] 2020-08-07 (PCT/US2020/045399)

[87] (WO2021/026450)

[30] US (62/884,471) 2019-08-08

[30] US (62/927,731) 2019-10-30

[21] **3,149,820**
[13] A1

[51] **Int.Cl. A61K 31/202 (2006.01) A61K 35/60 (2006.01) A61K 36/28 (2006.01) A61K 36/52 (2006.01) A61P 9/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **USES OF LONG-CHAIN POLYUNSATURATED FATTY ACIDS**

[54] **UTILISATIONS D'ACIDES GRAS POLYINSATURES A LONGUE CHAINE**

[72] PIPINGAS, ANDREW, AU

[72] SCHOLEY, ANDREW, AU

[71] SWINBURNE UNIVERSITY OF TECHNOLOGY, AU

[85] 2022-02-04

[86] 2020-08-07 (PCT/AU2020/050822)

[87] (WO2021/022340)

[30] AU (2019902840) 2019-08-08

[21] **3,149,823**
[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01)**

[25] EN

[54] **SELF-CLEANING SCREEN**

[54] **TAMIS AUTONETTOYANT**

[72] BAUER, PETER, CA

[72] BETTS, BERNHARD, CA

[72] BROUILLETTE, YVES, CA

[72] ROUSSON, PATRICK, CA

[71] MAJOR WIRE INDUSTRIES LIMITED, CA

[85] 2022-02-04

[86] 2019-08-05 (PCT/CA2019/051071)

[87] (WO2021/022353)

Demandes PCT entrant en phase nationale

[21] **3,149,824**
[13] A1

[51] **Int.Cl. G06F 21/55 (2013.01) G06F 21/57 (2013.01) G06F 21/60 (2013.01)**

[25] EN

[54] **DETERMINING A FRAUD RISK SCORE ASSOCIATED WITH A TRANSACTION**

[54] **DETERMINATION D'UNE NOTE DE RISQUE DE FRAUDE ASSOCIEE A UNE TRANSACTION**

[72] HEARTY, JOHN, CA

[72] LAPTEV, ANTON, CA

[72] SHAH, PARIN PRASHANT, CA

[72] CHAN, SIK SUEN, CA

[72] WU, HANHAN, CA

[71] MASTERCARD TECHNOLOGIES CANADA ULC, CA

[85] 2022-02-04

[86] 2020-08-07 (PCT/CA2020/051082)

[87] (WO2021/026639)

[30] US (62/885,123) 2019-08-09

[21] **3,149,825**
[13] A1

[51] **Int.Cl. C12Q 1/70 (2006.01) A61P 25/14 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **POTENCY ASSAYS FOR VIRAL VECTOR PRODUCTION**

[54] **TEST D'ACTIVITE BIOLOGIQUE POUR LA PRODUCTION DE VECTEURS VIRAUX**

[72] FESCHENKO, MARINA, US

[72] BERGELSON, SVETLANA, US

[72] LEYME, ANTHONY CHRISTOPHE, US

[71] BIOGEN MA INC., US

[85] 2022-02-03

[86] 2020-08-07 (PCT/US2020/045423)

[87] (WO2021/026461)

[30] US (62/884,252) 2019-08-08

[21] **3,149,826**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 21/32 (2013.01)**

[25] EN

[54] **UTILIZING BEHAVIORAL FEATURES TO AUTHENTICATE A USER ENTERING LOGIN CREDENTIALS**

[54] **UTILISATION DE CARACTERISTIQUES COMPORTEMENTALES POUR AUTHENTIFIER UN UTILISATEUR ENTRANT DES IDENTIFIANTS DE CONNEXION**

[72] CHAN, SIK SUEN, CA

[72] LAPTEV, ANTON, CA

[72] SHAH, PARIN PRASHANT, CA

[71] MASTERCARD TECHNOLOGIES CANADA ULC, CA

[85] 2022-02-04

[86] 2020-08-07 (PCT/CA2020/051083)

[87] (WO2021/026640)

[30] US (62/885,156) 2019-08-09

[21] **3,149,827**
[13] A1

[51] **Int.Cl. D02G 3/44 (2006.01) A41D 31/24 (2019.01) A41D 19/015 (2006.01) D01F 8/00 (2006.01) D02G 3/16 (2006.01) D04B 1/14 (2006.01)**

[25] EN

[54] **CUT-RESISTANT MULTI-PLY TWISTED YARNS AND FABRICS**

[54] **FILS TORSADES RESISTANT AUX COUPURES**

[72] HU, YINGXIANG, CN

[71] DUPONT SAFETY & CONSTRUCTION, INC., US

[85] 2022-02-03

[86] 2020-09-01 (PCT/US2020/048894)

[87] (WO2021/046025)

[30] CN (201910841636.1) 2019-09-06

[21] **3,149,828**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR MANAGING DATA PACKET COMMUNICATIONS**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE GERER DES COMMUNICATIONS DE PAQUETS DE DONNEES**

[72] AZZAM, IMAD, CA

[72] SZE, DAVID PUI KEUNG, CA

[71] DEJERO LABS INC., CA

[85] 2022-02-04

[86] 2020-08-07 (PCT/CA2020/051090)

[87] (WO2021/022383)

[30] US (62/884,514) 2019-08-08

[21] **3,149,829**
[13] A1

[51] **Int.Cl. G01M 3/00 (2006.01) G01V 1/00 (2006.01)**

[25] EN

[54] **METHOD OF DETECTING A LEAK IN A FLUID CONDUIT**

[54] **PROCEDE DE DETECTION D'UNE FUITE DANS UN CONDUIT DE FLUIDE**

[72] DANKERS, ARNE, CA

[72] GHAZAVI, NILOUFAR, CA

[72] JALILIAN, SEYED EHSAN, CA

[71] HIFI ENGINEERING INC., CA

[85] 2022-02-04

[86] 2020-08-10 (PCT/CA2020/051095)

[87] (WO2021/026645)

[30] US (62/885,665) 2019-08-12

[21] **3,149,831**
[13] A1

[51] **Int.Cl. H04L 1/18 (2006.01) H04W 72/04 (2009.01) H04W 72/14 (2009.01)**

[25] EN

[54] **SHARING HARQ PROCESSES BY MULTIPLE CONFIGURED GRANTS RESOURCES**

[54] **PARTAGE DE PROCESSUS HARQ PAR DE MULTIPLES RESSOURCES A OCTROI CONFIGUREES**

[72] WU, CHUNLI, CN

[72] TURPINEN, SAMULI, FI

[72] SEBIRE, BENOIST, JP

[72] ROSA, CLAUDIO, DK

[72] KUO, PING-HENG, GB

[71] NOKIA TECHNOLOGIES OY, FI

[85] 2022-02-04

[86] 2019-08-07 (PCT/CN2019/099690)

[87] (WO2021/022532)

PCT Applications Entering the National Phase

[21] **3,149,832**
[13] A1

[51] **Int.Cl. C22C 38/14 (2006.01) C21D 8/12 (2006.01) C22C 38/06 (2006.01)**

[25] EN

[54] **NON-ORIENTED ELECTRICAL STEEL PLATE AND MANUFACTURING METHOD THEREFOR**

[54] **TOLE D'ACIER ELECTRIQUE NON ORIENTEE ET SON PROCEDE DE FABRICATION**

[72] ZHANG, FENG, CN
[72] CHU, SHUANGJIE, CN
[72] WANG, BO, CN
[72] ZHANG, WENYUE, CN
[72] SHEN, KANYI, CN
[72] LI, GUOBAO, CN
[71] BAOSHAN IRON & STEEL CO., LTD., CN

[85] 2022-02-04
[86] 2020-08-26 (PCT/CN2020/111404)
[87] (WO2021/037063)
[30] CN (201910790431.5) 2019-08-26

[21] **3,149,833**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61P 17/02 (2006.01) A61P 19/08 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **REGENERATING FUNCTIONS AND PHENOTYPES OF CONNECTIVE TISSUE THROUGH NPAS2 SUPPRESSION**

[54] **REGENERATION DES FONCTIONS ET DES PHENOTYPES D'UN TISSU CONJONCTIF PAR INHIBITION DE NPAS2**

[72] NISHIMURA, ICHIRO, US
[72] HOKUGO, AKISHIGE, US
[72] SASAKI, HODAKA, US
[72] OKAWA, HIROKO, US
[72] WANG, LIXIN, US
[72] DAMOISEAUX, ROBERT D., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2022-02-03
[86] 2020-09-04 (PCT/US2020/049529)
[87] (WO2021/046438)
[30] US (62/895,821) 2019-09-04

[21] **3,149,834**
[13] A1

[51] **Int.Cl. H02H 9/02 (2006.01) G01R 1/36 (2006.01) H02J 3/02 (2006.01) H01F 3/14 (2006.01)**

[25] EN

[54] **PROTECTION OF AN AC DEVICE PROTECTION D'UN DISPOSITIF A COURANT ALTERNATIF**

[72] PRUCKER, UDO, DE
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE

[85] 2022-02-04
[86] 2020-07-10 (PCT/EP2020/069489)
[87] (WO2021/023472)
[30] DE (10 2019 211 948.4) 2019-08-08

[21] **3,149,835**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/10 (2006.01)**

[25] EN

[54] **CHEMICALLY MODIFIED OLIGONUCLEOTIDES TARGETING SNPS**

[54] **OLIGONUCLEOTIDES MODIFIES CHIMIQUEMENT CIBLANT DES SNP**

[72] KHVOROVA, ANASTASIA, US
[72] ALTERMAN, JULIA, US
[72] CONROY, FAITH, US
[72] PFISTER, EDITH, US
[72] ARONIN, NEIL, US
[72] YAMADA, KEN, US
[71] UNIVERSITY OF MASSACHUSETTS, US

[85] 2022-02-03
[86] 2020-08-07 (PCT/US2020/045487)
[87] (WO2021/030213)
[30] US (62/885,066) 2019-08-09
[30] US (62/976,168) 2020-02-13

[21] **3,149,836**
[13] A1

[51] **Int.Cl. A01G 13/00 (2006.01) A01M 7/00 (2006.01)**

[25] EN

[54] **PREDICTION OF RESIDUES OF PLANT PROTECTION AGENTS IN HARVESTED PRODUCTS**

[54] **PREDICTION DE RESIDUS D'AGENTS PHYTOSANITAIRES DANS DES PRODUITS DE RECOLTE**

[72] WIRTZ, KAI, DE
[72] BECKER, ROLF CHRISTIAN, DE
[72] GOERLITZ, LINUS, DE
[72] SCHAEFER, DIRK, DE
[72] WEYSER, FABIAN, DE
[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2022-02-04
[86] 2020-08-04 (PCT/EP2020/071849)
[87] (WO2021/023727)
[30] EP (19190498.6) 2019-08-07

[21] **3,149,840**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01)**

[25] EN

[54] **NONPEPTIDE SOMATOSTATIN TYPE 5 RECEPTOR AGONISTS AND USES THEREOF**

[54] **AGONISTES DU RECEPTEUR DE LA SOMATOSTATINE DE TYPE 5 NON PEPTIDIQUE ET LEURS UTILISATIONS**

[72] ZHAO, JIAN, US
[72] ZHU, YUNFEI, US
[72] WANG, SHIMIAO, US
[72] CHEN, MI, US
[72] PONTILLO, JOSEPH, US
[71] CRINETICS PHARMACEUTICALS, INC., US

[85] 2022-02-03
[86] 2020-08-10 (PCT/US2020/045610)
[87] (WO2021/030262)
[30] US (62/886,764) 2019-08-14

Demandes PCT entrant en phase nationale

[21] **3,149,841**
[13] A1

[51] **Int.Cl. B31B 50/59 (2017.01) B31F 1/00 (2006.01) D21H 17/00 (2006.01) D21H 17/33 (2006.01) D21H 17/68 (2006.01) D21H 19/40 (2006.01) D21H 19/42 (2006.01) D21H 19/44 (2006.01) D21H 21/34 (2006.01)**

[25] EN

[54] **LAYER STRUCTURES, CONSTRUCTS, AND METHODS OF FORMING AND USING THE SAME**

[54] **STRUCTURES EN COUCHES, CONSTRUCTIONS ET PROCÉDES DE FORMATION ET D'UTILISATION DE CELLES-CI**

[72] PORTREY, RYAN, US

[72] SLOAT, JEFFREY T., US

[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2022-02-03

[86] 2020-09-18 (PCT/US2020/051424)

[87] (WO2021/055701)

[30] US (62/903,262) 2019-09-20

[21] **3,149,842**
[13] A1

[51] **Int.Cl. A01N 43/713 (2006.01) A01N 43/56 (2006.01) A01N 43/80 (2006.01) A01P 3/00 (2006.01) A01P 7/04 (2006.01)**

[25] EN

[54] **ACTIVE COMPOUND COMBINATIONS HAVING INSECTICIDAL PROPERTIES**

[54] **COMBINAISONS DE COMPOSES ACTIFS POSSEDANT DES PROPRIETES INSECTICIDES**

[72] GALLOW, ROLAND, DE

[72] JOHN, MARITA, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2022-02-04

[86] 2020-08-04 (PCT/EP2020/071881)

[87] (WO2021/023735)

[30] EP (19190752.6) 2019-08-08

[21] **3,149,843**
[13] A1

[51] **Int.Cl. G06T 7/33 (2017.01) A61B 5/00 (2006.01) A61C 9/00 (2006.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**

[25] EN

[54] **METHOD, SYSTEM AND COMPUTER READABLE STORAGE MEDIA FOR REGISTERING INTRAORAL MEASUREMENTS**

[54] **PROCEDE, SYSTEME ET SUPPORT D'INFORMATIONS LISIBLE PAR ORDINATEUR D'ALIGNEMENT DE MESURES INTRA-ORALES**

[72] MEYER, MARCEL, DE

[72] SCHNEIDER, SASCHA, DE

[72] ADAMSON, ANDERS, DE

[72] SCHNABEL, RUWEN, DE

[71] DENTSPLY SIRONA INC., US

[85] 2022-02-03

[86] 2020-09-22 (PCT/US2020/051942)

[87] (WO2021/061611)

[30] US (16/580,084) 2019-09-24

[21] **3,149,844**
[13] A1

[51] **Int.Cl. A61K 35/761 (2015.01) C12N 9/24 (2006.01)**

[25] EN

[54] **VIRAL PARTICLES FOR USE IN TREATING SYNUCLEINOPATHIES SUCH AS PARKINSON'S DISEASES BY GENE THERAPY**

[54] **PARTICULES VIRALES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DE SYNUCLEINOPATHIES TELLES QUE LES MALADIES DE PARKINSON PAR THERAPIE GENIQUE**

[72] GONZALEZ ASEGUINOLAZA, GLORIA, ES

[72] LANCIEGO PEREZ, JOSE LUIS, ES

[72] LINDEN, RALPH MICHAEL, GB

[71] FUNDACION PARA LA INVESTIGACION MEDICA APLICADA, ES

[71] CONSORCIO CENTRO DE INVESTIGACION BIOMEDICA EN RED, ES

[71] UCB BIOPHARMA SRL, BE

[85] 2022-02-04

[86] 2020-08-06 (PCT/EP2020/072087)

[87] (WO2021/028299)

[30] EP (19382706.0) 2019-08-12

[21] **3,149,845**
[13] A1

[51] **Int.Cl. A23L 7/10 (2016.01) A23L 7/117 (2016.01) A23L 7/139 (2016.01) A23B 9/02 (2006.01) A23C 9/13 (2006.01) A23C 9/133 (2006.01) A23C 9/152 (2006.01) A23L 3/34 (2006.01)**

[25] EN

[54] **OVERNIGHT OATS**

[54] **PORRIDGE DE LA VEILLE**

[72] CHERUVATHOOR, STEVE, US

[72] CLARK, KENZI, US

[72] PIASECKI, JULIE A., US

[72] SUN, JIE, US

[71] GENERAL MILLS, INC., US

[85] 2022-02-03

[86] 2020-10-07 (PCT/US2020/054548)

[87] (WO2021/071925)

[30] US (62/912,431) 2019-10-08

[30] US (62/912,448) 2019-10-08

[21] **3,149,846**
[13] A1

[51] **Int.Cl. A61K 31/4725 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **QUINOLINE DERIVATIVES AS PROTEIN KINASE INHIBITORS**

[54] **DERIVES D'ISOQUINOLINE UTILISES COMME INHIBITEURS DE PROTEINE KINASE**

[72] AMIABLE, CLAIRE, FR

[72] SURLERAUX, DOMINIQUE, BE

[72] DIEUDONNE, FRANCOIS-XAVIER, FR

[72] LOUAT, THIERRY, BE

[72] DEROO, SABRINA, FR

[72] GUILLON, REMI, FR

[71] B.C.I. PHARMA, BE

[85] 2022-02-04

[86] 2020-08-07 (PCT/EP2020/072322)

[87] (WO2021/023888)

[30] EP (19190898.7) 2019-08-08

PCT Applications Entering the National Phase

[21] **3,149,848**
[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/46 (2020.01) A24F 40/70 (2020.01)**

[25] EN

[54] **A CARTRIDGE FOR AN ELECTRONIC CIGARETTE, AN ELECTRONIC CIGARETTE, AND AN ASSEMBLY METHOD FOR AN ELECTRONIC CIGARETTE**

[54] **CARTOUCHE POUR CIGARETTE ELECTRONIQUE, CIGARETTE ELECTRONIQUE ET PROCEDE D'ASSEMBLAGE POUR CIGARETTE ELECTRONIQUE**

[72] VOERMAN, PAUL, NL
[72] POPKEN, SEBO, NL
[72] HUPKES, ERNST, NL
[71] JT INTERNATIONAL SA, CH
[85] 2022-02-04
[86] 2020-08-10 (PCT/EP2020/072415)
[87] (WO2021/028395)
[30] EP (19191198.1) 2019-08-12

[21] **3,149,849**
[13] A1

[51] **Int.Cl. C11D 7/42 (2006.01) C11D 7/26 (2006.01) C11D 7/32 (2006.01) C11D 11/00 (2006.01)**

[25] EN

[54] **STABILIZED ENZYMATIC DETERGENT COMPOSITIONS**

[54] **COMPOSITIONS DETERGENTES ENZYMATIQUES STABILISEES**

[72] LO, WENDY, US
[72] RIEHM, DAVID, US
[72] OLSON, ERIK C., US
[72] CRONIN, SARAH, US
[72] RISCHMILLER, MICHAEL S., US
[72] SILVERNAIL, CARTER M., US
[72] HAMMEL, DEVON BEAU, US
[72] LEHMAN, JACK, US
[72] MURPHY, JESSE, US
[71] ECOLAB USA INC., US
[85] 2022-02-03
[86] 2020-09-30 (PCT/US2020/053491)
[87] (WO2021/067407)
[30] US (62/907,931) 2019-09-30

[21] **3,149,860**
[13] A1

[51] **Int.Cl. G09B 9/00 (2006.01) F41A 33/00 (2006.01) G08C 17/02 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SIMULATING BLAST EFFECTS OF AN EXPLOSIVE**

[54] **SYSTEMES ET PROCEDES POUR SIMULER DES EFFETS DE SOUFFLE D'UN EXPLOSIF**

[72] WILLIAMS, DONALD, AU
[72] WILSON, DAVID, AU
[71] LAYER 3 SERVICES PTY LTD, AU
[85] 2022-02-03
[86] 2020-07-31 (PCT/AU2020/050791)
[87] (WO2021/022322)
[30] AU (2019902811) 2019-08-06

[21] **3,149,861**
[13] A1

[51] **Int.Cl. B66C 13/06 (2006.01) B66F 11/04 (2006.01)**

[25] EN

[54] **IMPROVED ARRANGEMENTS FOR ROTATIONAL APPARATUS**

[54] **AGENCEMENTS AMELIORES DESTINES A UN APPAREIL EN ROTATION**

[72] THOMSON, STANLEY, AU
[72] KOK, JOEL, AU
[72] EVANS, HEFIN, AU
[72] HICKSON, GERRARD, AU
[71] VERTON IP PTY LTD, AU
[85] 2022-02-03
[86] 2020-07-31 (PCT/AU2020/050788)
[87] (WO2021/022321)
[30] AU (2019902777) 2019-08-02

[21] **3,149,869**
[13] A1

[51] **Int.Cl. A01N 43/836 (2006.01) A01N 43/90 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01) A01P 9/00 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61P 33/10 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **AGRICULTURAL OR HORTICULTURAL INSECTICIDE OR ANIMAL ECTOPARASITE OR ENDOPARASITE CONTROL AGENT EACH COMPRISING A CONDENSED HETEROCYCLIC COMPOUND HAVING A SUBSTITUTED CYCLOPROPANE-OXADIAZOLE GROUP OR A SALT THEREOF AS ACTIVE INGREDIENT, AND METHOD FOR USING THE INSECTICIDE OR THE CONTROL AGENT**

[54] **PRODUIT INSECTICIDE AGRICOLE ET HORTICOLE METTANT EN OEUVRE EN TANT QUE PRINCIPE ACTIF UN COMPOSE HETEROCYCLE CONDENSE POSSEDANT UN GROUPE CYCLOPROPANE OXADIAZOLE SUBSTITUE OU DES SELS DE CELUI-CI, AGENT DE LUTTE ANTIPARASITAIRE CONTRE ECTOPARASITES ET ENDOPARASITES CHEZ LES ANIMAUX, AINSI QUE PROCEDES D'UTILISATION DE CEUX-CI**

[72] YAMAUCHI, CHIAKI, JP
[72] YONEMURA, IKKI, JP
[72] FUJIHARA, HIROKAZU, JP
[71] NIHON NOHYAKU CO., LTD., JP
[85] 2022-02-03
[86] 2020-09-11 (PCT/JP2020/034387)
[87] (WO2021/049595)
[30] JP (2019-165792) 2019-09-12

Demandes PCT entrant en phase nationale

[21] **3,149,870**
[13] A1

[51] **Int.Cl. A61K 8/66 (2006.01) A61K 38/44 (2006.01) C12N 9/04 (2006.01)**

[25] EN

[54] **PEROXIDASE ACTIVITY TOWARDS 10-ACETYL-3,7-DIHYDROXYPHENOXAZINE**

[54] **ACTIVITE DE LA PEROXYDASE ENVERS LA 10-ACETYL -3,7-DIHYDROXYPHENOXAZINE**

[72] DUAN, DA, US

[72] SOWELL-KANTZ, AURIC ANTHONY, US

[72] PETKOVA, AKSINIYA LYUBENOVA, US

[72] NAZOR, JOVANA, US

[72] SUBRAMANIAN, NANDHITHA, US

[72] ALVIZO, OSCAR, US

[71] CODEXIS, INC., US

[85] 2022-02-03

[86] 2020-09-03 (PCT/US2020/049164)

[87] (WO2021/050348)

[30] US (62/899,190) 2019-09-12

[21] **3,149,903**
[13] A1

[25] EN

[54] **POWER DRIVE SUPER CAPACITOR, INDUCTIVE POWER SOURCE AND SYSTEM FOR TRACK-BASED VEHICLE SYSTEMS**

[54]

[72] SCHUBERT, THOMAS, US

[71] DIGITAL DREAM LABS, LLC, US

[85] 2022-02-04

[86] 2021-09-01 (PCT/US2021/048678)

[87] (3149903)

[30] US (63/073,079) 2020-09-01

[21] **3,149,906**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01)**

[25] EN

[54] **METHODS OF TREATING OR PREVENTING SPINAL MUSCULAR ATROPHY**

[54] **METHODES DE TRAITEMENT OU DE PREVENTION DE L'AMYOTROPHIE SPINALE**

[72] LOVEDAY, KENNETH SWOPE, US

[72] BAI, FENGJU JUDY, US

[72] EAST, LILLY, US

[72] FARWELL, WILDON R., US

[71] BIOGEN MA INC., US

[85] 2022-01-17

[86] 2020-07-16 (PCT/US2020/042312)

[87] (WO2021/016032)

[30] US (62/876,360) 2019-07-19

[21] **3,149,913**
[13] A1

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

[25] EN

[54] **SYSTEM AND METHOD FOR GENERIC DIVERSITY GATEWAY SWITCHING FOR A SATELLITE COMMUNICATION SYSTEM**

[54] **SYSTEME ET PROCEDE DE COMMUTATION DE PASSERELLE DE DIVERSITE GENERIQUE POUR UN SYSTEME DE COMMUNICATION PAR SATELLITE**

[72] REGUNATHAN, MURALI, US

[72] ROOS, DAVID ALAN, US

[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2022-02-03

[86] 2020-08-06 (PCT/US2020/045131)

[87] (WO2021/026309)

[30] US (16/532,485) 2019-08-06

[21] **3,149,914**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PROCESSES OF PREPARING POLYGLUTAMATED ANTIFOLATES AND USES OF THEIR COMPOSITIONS**

[54] **PROCEDES DE PREPARATION D'ANTIFOLATES POLYGLUTAMIQUES ET LEURS UTILISATIONS**

[72] NIYIKIZA, CLET, US

[72] MOYO, VICTOR MANDLA, US

[72] GENG, BOLIN, US

[71] L.E.A.F. HOLDINGS GROUP LLC, US

[85] 2022-02-03

[86] 2020-08-06 (PCT/US2020/045132)

[87] (WO2021/026310)

[30] US (62/883,311) 2019-08-06

[21] **3,149,915**
[13] A1

[51] **Int.Cl. A23D 9/007 (2006.01) A23G 1/48 (2006.01) A61K 31/352 (2006.01) A61K 36/00 (2006.01) A61K 36/185 (2006.01)**

[25] EN

[54] **CONSUMABLE COMPOSITIONS AND METHODS OF PRODUCING THE SAME**

[54] **COMPOSITIONS CONSOMMABLES ET LEURS PROCEDES DE PRODUCTION**

[72] HOLZER, ERIN, US

[72] BARSOOM, PETER, US

[72] KIRKLAND, JUSTIN, US

[71] NUKA ENTERPRISES, US

[85] 2022-02-03

[86] 2020-08-06 (PCT/US2020/045226)

[87] (WO2021/026366)

[30] US (62/883,619) 2019-08-06

PCT Applications Entering the National Phase

[21] **3,149,916**
[13] A1

[51] **Int.Cl. A61K 31/7048 (2006.01) A61K 9/16 (2006.01)**
[25] EN
[54] **HYBRID AMIDE DERIVATIVES OF AMPHOTERICIN B**
[54] **DERIVES AMIDES HYBRIDES D'AMPHOTERICINE B**
[72] ZHANG, JIABAO, US
[72] YAN, SU, US
[72] BURKE, MARTIN D., US
[72] MAJI, ARUN, US
[72] NIAN, YONG, US
[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2022-02-03
[86] 2020-08-10 (PCT/US2020/045566)
[87] (WO2021/026520)
[30] US (62/884,464) 2019-08-08
[30] US (62/951,753) 2019-12-20

[21] **3,149,917**
[13] A1

[51] **Int.Cl. A01N 43/90 (2006.01) A01P 7/02 (2006.01) A01P 7/04 (2006.01) A01P 9/00 (2006.01) A61K 31/5025 (2006.01) A61P 33/10 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **AGRICULTURAL OR HORTICULTURAL INSECTICIDE OR ANIMAL ECTOPARASITE OR ENDOPARASITE CONTROL AGENT EACH COMPRISING AN IMIDAZOPYRIDAZINE COMPOUND HAVING A SUBSTITUTED CYCLOPROPANE-OXADIAZOLE GROUP OR A SALT THEREOF AS ACTIVE INGREDIENT, AND METHOD FOR USING THE INSECTICIDE OR THE CONTROL AGENT**
[54] **PRODUIT INSECTICIDE AGRICOLE ET HORTICOLE METTANT EN OEUVRE EN TANT QUE PRINCIPE ACTIF UN COMPOSE IMIDAZOPYRIDAZINE POSSEDANT UN GROUPE CYCLOPROPANE OXADIAZOLE SUBSTITUE OU DES SE LS DE CELUI-CI, AGENT DE LUTTE ANTIPARASITAIRE CONTRE ECTOPARASITES ET ENDOPARASITES CHEZ LES ANIMAUX, AINSI QUE PROCEDES D'UTILISATION DE CEUX-CI**
[72] YAMAUCHI, CHIAKI, JP
[72] YONEMURA, IKKI, JP
[71] NIHON NOHYAKU CO., LTD., JP
[85] 2022-02-03
[86] 2020-09-11 (PCT/JP2020/034388)
[87] (WO2021/049596)
[30] JP (2019-165793) 2019-09-12

[21] **3,149,918**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) A61K 31/155 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR TREATING CANCER COMPRISING ANTICANCER VIRUS, IMMUNE CHECKPOINT INHIBITOR AND HYDROXYUREA AS ACTIVE INGREDIENTS**
[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT DU CANCER COMPRENANT UN VIRUS ANTICANCEREUX, UN INHIBITEUR DE POINT DE CONTROLE IMMUNITAIRE ET UNE HYDROXYUREE EN TANT QUE PRINCIPES ACTIFS**
[72] HWANG, TAE-HO, KR
[72] CHO, MONG, KR
[71] BIONOXX INC., KR
[85] 2022-02-03
[86] 2019-08-26 (PCT/KR2019/010850)
[87] (WO2021/040065)

[21] **3,149,919**
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **CHIKUNGUNYA VACCINE FORMULATIONS**
[54] **FORMULATIONS DE VACCIN CONTRE LE CHIKUNGUNYA**
[72] REINISCH, CHRISTOPH, AT
[72] SCHLEGL, ROBERT, AT
[72] HEINDL-WRUSS, JURGEN, AT
[71] VALNEVA SE, FR
[85] 2022-02-04
[86] 2020-08-10 (PCT/EP2020/072435)
[87] (WO2021/028406)
[30] EP (19190999.3) 2019-08-09

Demandes PCT entrant en phase nationale

[21] **3,149,921**
[13] A1

[51] **Int.Cl. C09K 17/14 (2006.01) C05F 11/00 (2006.01) C09K 17/32 (2006.01)**

[25] EN

[54] **AN ADDITIVE FOR SOIL CONDITIONING AND AN AGRICULTURAL COMPOSITION CONTAINING SAID ADDITIVE FOR PLANT GROWTH**

[54] **ADDITIF POUR AMENDEMENT DU SOL ET COMPOSITION AGRICOLE CONTENANT LEDIT ADDITIF POUR LA CROISSANCE DES PLANTES**

[72] SHAH, SHREYAS N., IN

[72] DESAI, URMIL GUNVANTRA, IN

[72] AMIN, ANISH MAHENDRABHAI, IN

[72] PATEL, YOGENDRA K., IN

[71] SHAH, SHREYAS N., IN

[71] DESAI, URMIL GUNVANTRA, IN

[71] AMIN, ANISH MAHENDRABHAI, IN

[71] PATEL, YOGENDRA K., IN

[85] 2021-08-18

[86] 2019-02-12 (PCT/IB2019/051103)

[87] (WO2019/162798)

[30] IN (201821007239) 2018-02-26

[30] IN (201821048783) 2018-12-22

[21] **3,149,924**
[13] A1

[51] **Int.Cl. B29B 17/04 (2006.01) B29B 17/02 (2006.01)**

[25] FR

[54] **MACHINE FOR RECYCLING TYRES**

[54] **MACHINE POUR LE RECYCLAGE DES PNEUS**

[72] KLADNY, PIERRE, CH

[71] TYRE RECYCLING SOLUTIONS SA, CH

[85] 2022-01-31

[86] 2020-07-17 (PCT/IB2020/056722)

[87] (WO2021/019357)

[30] CH (00977/19) 2019-07-31

[21] **3,149,925**
[13] A1

[51] **Int.Cl. A61K 38/28 (2006.01) A61P 3/10 (2006.01) C07K 14/62 (2006.01)**

[25] EN

[54] **PREMIXED ULTRA-STABLE SINGLE-CHAIN INSULIN ANALOGUE FORMULATIONS**

[54] **PREPARATIONS PRE-MELANGEES ULTRA-STABLES D'ANALOGUES DE L'INSULINE EN CHAINE UNIQUE**

[72] WEISS, MICHAEL A., US

[72] ISMAIL-BEIGI, FARAMARZ, US

[71] CASE WESTERN RESERVE UNIVERSITY, US

[85] 2022-02-02

[86] 2020-08-03 (PCT/US2020/044788)

[87] (WO2021/026091)

[30] US (62/882,012) 2019-08-02

[21] **3,149,928**
[13] A1

[51] **Int.Cl. A01N 59/16 (2006.01) A01N 25/04 (2006.01) A01N 25/08 (2006.01) C01G 39/02 (2006.01)**

[25] EN

[54] **ANTI-PATHOGEN COMPOSITIONS**

[54] **COMPOSITIONS ANTI-PATHOGENES**

[72] DUDDING, JEFFERY L., US

[72] PARANJPE, AMOD P., US

[71] CLAW BIOTECH HOLDINGS, LLC, US

[85] 2022-02-03

[86] 2020-08-25 (PCT/US2020/047841)

[87] (WO2021/041439)

[30] US (62/893,513) 2019-08-29

[30] US (63/007,743) 2020-04-09

[21] **3,149,929**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **COMPLEMENTARITY- DETERMINING REGIONS FOR BINDING CD3, AND BISPECIFIC ANTIGEN-BINDING MOLECULE CONTAINING SAID CD3**

[54] **REGIONS DETERMINANT LA COMPLEMENTARITE POUR LA LIAISON DE CD3 ET MOLECULE DE LIAISON AUX ANTIGENES BISPECIFIQUE LES CONTENANTS**

[72] PISKUNOV, ALEKSANDR ALEKSANDROVICH, RU

[72] ABBASOVA, SVETLANA GEORGIEVNA, RU

[72] MOROZOV, ANTON NIKOLAEVICH, RU

[72] SHUSTER, ALEKSANDR MIKHAILOVICH, RU

[72] SLAVNY, PETER, GB

[72] GRIFFITHS, DANIEL, GB

[72] KACZYNSKA, IZABELA, GB

[72] MCCAFFERTY, JOHN, GB

[72] DYSON, MICHAEL, GB

[71] JOINT-STOCK COMPANY "GENERIUM", RU

[85] 2022-02-03

[86] 2020-08-20 (PCT/RU2020/050195)

[87] (WO2021/034227)

[30] RU (2019126380) 2019-08-21

[21] **3,149,930**
[13] A1

[51] **Int.Cl. B01F 23/233 (2022.01) B01F 27/112 (2022.01)**

[25] EN

[54] **GAS DISPERSION SYSTEM**

[54] **SYSTEME DE DISPERSION DE GAZ**

[72] ANTONIO JANZ, ERIC EDWARD, US

[72] MYERS, KEVIN J., US

[71] NOV PROCESS & FLOW TECHNOLOGIES US, INC., US

[85] 2022-02-03

[86] 2020-08-13 (PCT/US2020/046182)

[87] (WO2021/030587)

[30] US (16/541,515) 2019-08-15

PCT Applications Entering the National Phase

[21] **3,149,932**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **SINGLE SHOT CHIKUNGUNYA VIRUS VACCINE**
[54] **VACCIN CONTRE LE VIRUS CHIKUNGUNYA EN UNE SEULE INJECTION**
[72] WRESSNIGG, NINA, AT
[72] HOCHREITER, ROMANA, AT
[71] VALNEVA SE, FR
[85] 2022-02-04
[86] 2020-08-10 (PCT/EP2020/072436)
[87] (WO2021/028407)
[30] EP (19191030.6) 2019-08-09
[30] EP (20158557.7) 2020-02-20

[21] **3,149,933**
[13] A1

[51] **Int.Cl. C11D 1/66 (2006.01) C11D 1/72 (2006.01) C11D 3/04 (2006.01) C11D 3/34 (2006.01) C02F 5/08 (2006.01)**
[25] EN
[54] **DETERGENT COMPOSITION FOR DISSOLVING A MINERAL DEPOSIT**
[54] **COMPOSITION DETERGENTE POUR DISSOUDRE UN DEPOT MINERAL**
[72] SEMENZA, REED, SE
[71] DELAVAL HOLDING AB, SE
[85] 2022-02-03
[86] 2020-07-22 (PCT/SE2020/050743)
[87] (WO2021/029805)
[30] SE (1950937-1) 2019-08-15

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[51] **Int.Cl. A23F 3/32 (2006.01) A23F 5/12 (2006.01) A23F 5/14 (2006.01) B65D 65/46 (2006.01) B65D 85/804 (2006.01)**
[25] EN
[54] **COMPOSTABLE CAPSULE AND ITS PRODUCTION AND USE**
[54] **CAPSULES COMPOSTABLES, LEUR PRODUCTION ET LEUR UTILISATION**
[72] SIEFARTH, CAROLINE, CH
[72] AFFOLTER, ROLAND, CH
[72] BRUNSCHWILER, CHRISTOPH, CH
[72] VAN DEN BRAGT, RALF, CH
[72] YILDIRIM, SELCUK, CH
[72] MIESCHER, SUSANNA, CH
[72] FALLER, ANNICA, CH
[71] DELICA AG, CH
[85] 2022-02-04
[86] 2020-09-04 (PCT/EP2020/074855)
[87] (WO2021/044024)
[30] EP (19195668.9) 2019-09-05

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[13] A1

[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/95 (2020.01) A61M 11/04 (2006.01) A61M 15/00 (2006.01) A61M 15/06 (2006.01)**
[25] EN
[54] **AEROSOL GENERATION DEVICE**
[54] **DISPOSITIF DE GENERATION D'AEROSOL**
[72] MASON, JON, GB
[72] LYELL, NATHAN, GB
[72] BAKER, DOMINIC, GB
[72] PLEVNIK, MARKO, GB
[71] JT INTERNATIONAL SA, CH
[85] 2022-02-04
[86] 2020-10-02 (PCT/EP2020/077723)
[87] (WO2021/064209)
[30] EP (19201113.8) 2019-10-02

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[13] A1

[51] **Int.Cl. C07J 43/00 (2006.01) A61K 31/566 (2006.01) A61K 31/58 (2006.01) A61P 9/04 (2006.01) C07J 1/00 (2006.01) C07J 41/00 (2006.01) C07J 21/00 (2006.01) C07J 51/00 (2006.01)**
[25] EN
[54] **ANDROSTANE DERIVATIVES WITH ACTIVITY AS PURE OR PREDOMINANTLY PURE STIMULATORS OF SERCA2A FOR THE TREATMENT OF HEART FAILURE**
[54] **DERIVES D'ANDROSTANE AYANT UNE ACTIVITE EN TANT QUE STIMULATEURS PURS OU MAJORITAIREMENT PURS DE SERCA2A POUR LE TRAITEMENT DE L'INSUFFISANCE CARDIAQUE**
[72] CERRI, ALBERTO (DECEASED), IT
[72] FERRARI, PATRIZIA, IT
[72] FERRANDI, MARA, IT
[72] BARASSI, PAOLO, IT
[72] BIANCHI, GIUSEPPE, IT
[72] HSU, SHIH-CHE, TW
[72] PERI, FRANCESCO, IT
[72] ZAZA, ANTONIO, IT
[72] ROCCHETTI, MARCELLA, IT
[72] LURAGHI, ANDREA, IT
[72] TORRE, ELEONORA, IT
[72] RONCHI, CARLOTTA, IT
[71] WINDTREE THERAPEUTICS, INC., US
[85] 2022-02-04
[86] 2020-10-08 (PCT/EP2020/078253)
[87] (WO2021/069570)
[30] EP (19202257.2) 2019-10-09

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[13] A1

[51] **Int.Cl. B09B 3/00 (2022.01) G06T 7/73 (2017.01) G06T 17/00 (2006.01) H05K 13/04 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR DISASSEMBLING ELECTRONICS**
[54] **PROCEDE ET DISPOSITIF POUR DEMONTER DES APPAREILS ELECTRONIQUES**
[72] RINNE, TERO, FI
[71] 3R-CYCLE OY, FI
[85] 2022-02-04
[86] 2020-08-07 (PCT/FI2020/050523)
[87] (WO2021/028618)
[30] FI (20195670) 2019-08-12

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[21] **3,149,943**
[13] A1

[51] **Int.Cl. C08B 1/00 (2006.01) C08B 15/06 (2006.01) B01F 21/10 (2022.01)**
[25] EN
[54] **CELLULOSE PRETREATMENT**
[54] **PRETRAITEMENT DE CELLULOSE**
[72] HARLIN, ALI, FI
[72] MALANIN, ERKKI, FI
[72] MAKELA, JANI, FI
[71] INFINITED FIBER COMPANY OY, FI
[85] 2022-02-04
[86] 2020-08-31 (PCT/FI2020/050560)
[87] (WO2021/038136)
[30] FI (20195717) 2019-08-30

[21] **3,149,944**
[13] A1

[51] **Int.Cl. B01D 15/18 (2006.01) C07K 1/36 (2006.01) C12M 1/00 (2006.01) C12N 15/10 (2006.01) G01N 30/34 (2006.01) G01N 30/46 (2006.01) B01D 15/16 (2006.01)**
[25] EN
[54] **APPARATUS FOR PURIFYING A LIQUID COMPRISING A TARGET SUBSTANCE**
[54] **APPAREIL DE PURIFICATION D'UN LIQUIDE COMPRENANT UNE SUBSTANCE CIBLE**
[72] NAGY, TIBOR, GB
[72] HAIGH, JONATHAN, GB
[72] HEISE, CHARLES, GB
[72] TOPPING, ANDREW, GB
[72] PULLEN, JAMES, GB
[71] FUJIFILM DIOSYNTH BIOTECHNOLOGIES UK LIMITED, GB
[85] 2022-02-04
[86] 2020-08-06 (PCT/GB2020/051888)
[87] (WO2021/028663)
[30] GB (1911687.0) 2019-08-15

[21] **3,149,945**
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL SPRAYING SYSTEM**
[54] **SYSTEME DE PULVERISATION AGRICOLE**
[72] STUBER, LUKE, US
[72] STOLLER, JASON, US
[71] PRECISION PLANTING LLC, US
[85] 2022-02-04
[86] 2020-06-17 (PCT/IB2020/055641)
[87] (WO2021/059030)

[21] **3,149,946**
[13] A1

[51] **Int.Cl. B42D 25/47 (2014.01) B42D 25/351 (2014.01)**
[25] EN
[54] **A METHOD FOR MANUFACTURING A SECURITY SUBSTRATE**
[54] **PROCEDE DE FABRICATION D'UN SUBSTRAT DE SECURITE**
[72] BOBAT, SHIREEN, GB
[72] SUGDON, MATTHEW, GB
[72] DIXON, MARK, GB
[72] EAGAN, DAMIEN, GB
[72] QUANTON, SIMON, GB
[71] DE LA RUE INTERNATIONAL LIMITED, GB
[85] 2022-02-04
[86] 2020-09-16 (PCT/GB2020/052232)
[87] (WO2021/064349)
[30] GB (1914086.2) 2019-09-30

[21] **3,149,947**
[13] A1

[51] **Int.Cl. A61L 15/28 (2006.01) A61L 15/44 (2006.01) A61L 15/64 (2006.01)**
[25] EN
[54] **EXPANDABLE HEMOSTAT COMPOSED OF OXIDIZED CELLULOSE**
[54] **HEMOSTAT EXPANSIBLE COMPOSE DE CELLULOSE OXYDEE**
[72] ILAN, EREZ, IL
[72] FAINGOLD, OMRI, IL
[72] AEURBACH-NEVO, TAMAR, IL
[72] NEGREANU-GILBOA, TALI, IL
[72] ALPERIN, HADAS, IL
[72] WANG, ALLEN, US
[72] LOONEY, DWAYNE, US
[71] OMRIX BIOPHARMACEUTICALS LTD., IL
[71] ETHICON, INC., US
[85] 2022-02-04
[86] 2020-08-03 (PCT/IB2020/057322)
[87] (WO2021/024159)
[30] IL (268572) 2019-08-07
[30] US (62/883,764) 2019-08-07

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[13] A1

[51] **Int.Cl. G05B 19/404 (2006.01)**
[25] EN
[54] **EDGE BUILD-UP MEASUREMENT**
[54] **MESURE D'ACCUMULATION DE BORD**
[72] SLOAN, DAVID, CA
[71] ARCELORMITTAL, LU
[85] 2022-02-04
[86] 2019-08-29 (PCT/IB2019/057275)
[87] (WO2021/038278)

[21] **3,149,954**
[13] A1

[51] **Int.Cl. F28D 7/16 (2006.01) F28F 7/02 (2006.01) F28F 9/013 (2006.01) F28F 9/02 (2006.01) F28F 19/00 (2006.01) F28F 21/08 (2006.01)**
[25] EN
[54] **COST EFFECTIVE HEAT EXCHANGERS FOR THERMOCHEMICAL BIOMASS CONVERSION**
[54] **ECHANGEURS DE CHALEUR RENTABLES DESTINES A LA CONVERSION THERMOCHIMIQUE DE BIOMASSE**
[72] JOHANNSEN, IB, DK
[71] CIRCLIA NORDIC APS, DK
[85] 2022-02-04
[86] 2020-08-04 (PCT/IB2020/057354)
[87] (WO2021/024176)
[30] GB (1911294.5) 2019-08-07

[21] **3,149,956**
[13] A1

[51] **Int.Cl. G01M 9/00 (2006.01) F02D 17/00 (2006.01) G01P 5/16 (2006.01)**
[25] EN
[54] **AIRFOIL PERFORMANCE MONITOR**
[54] **MONITEUR DE PERFORMANCES DE PROFIL AERODYNAMIQUE**
[72] MARIS, JOHN, CA
[72] HICKS, WILLIAM REEVE, US
[71] MARINVENT CORPORATION, CA
[85] 2022-02-04
[86] 2020-08-13 (PCT/IB2020/057653)
[87] (WO2021/028874)
[30] US (62/887,418) 2019-08-15

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[13] A1

[51] **Int.Cl. A01G 9/24 (2006.01) A01G 9/02 (2018.01) A01G 9/20 (2006.01) A01G 31/00 (2018.01)**

[25] EN
[54] **PLANT CULTIVATION DEVICE**
[54] **DISPOSITIF DE CULTURE DE PLANTES**

[72] AKIYAMA, TAKUJI, JP
[72] SAKAGUCHI, SHUNSUKE, JP
[72] OHSHIMA, KAZUTAKA, JP
[71] PLANTX CORP., JP
[85] 2022-02-04
[86] 2020-05-27 (PCT/JP2020/020914)
[87] (WO2021/024583)
[30] JP (2019-144405) 2019-08-06

[21] **3,149,959**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) G06N 20/00 (2019.01)**

[25] EN
[54] **AUTOMATED HEALTH DATA ACQUISITION, PROCESSING AND COMMUNICATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE AUTOMATISES D'ACQUISITION, DE TRAITEMENT ET DE COMMUNICATION DE DONNEES DE SANTE**

[72] OHNEMUS, PETER, CH
[72] NAEF, ANDRE, CH
[72] JACOBS, LAURENCE, CH
[71] DACADOO AG, CH
[85] 2022-02-04
[86] 2020-08-07 (PCT/IB2020/057496)
[87] (WO2021/024234)
[30] US (16/536,158) 2019-08-08

[21] **3,149,962**
[13] A1

[51] **Int.Cl. G10L 21/02 (2013.01) G10L 19/005 (2013.01) G10L 25/60 (2013.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVING AUDIO QUALITY USING FEEDBACK CONTROL**
[54] **SYSTEMES ET PROCEDES POUR AMELIORER LA QUALITE AUDIO A L'AIDE D'UNE COMMANDE A RETROACTION**

[72] KOVACEVIC, MICHAEL, CA
[72] ROMAN, ALEXANDRU GABRIEL, CA
[71] TEXTNOW, INC., CA
[85] 2022-02-04
[86] 2020-08-18 (PCT/IB2020/057779)
[87] (WO2021/038385)
[30] US (62/890,768) 2019-08-23

[21] **3,149,965**
[13] A1

[51] **Int.Cl. D01F 6/70 (2006.01)**

[25] EN
[54] **RECYCLED POLYURETHANE ELASTIC FIBER, METHOD OF PRODUCING SAME, FIBER STRUCTURE CONTAINING SAID RECYCLED POLYURETHANE ELASTIC FIBER, GATHER MEMBER, AND SANITARY MATERIAL**
[54] **FIBRE ELASTIQUE DE POLYURETHANE RECYCLE, PROCEDE DE PRODUCTION DE CELLE-CI, STRUCTURE FIBREUSE CONTENANT LADITE FIBRE ELASTIQUE DE POLYURETHANE RECYCLE, ELEMENT DE COLLECTE ET MATERIAU D'HYGIENE**

[72] IWANAMI, TAISUKE, JP
[71] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2022-02-04
[86] 2020-09-23 (PCT/JP2020/035846)
[87] (WO2021/060292)
[30] JP (2019-173396) 2019-09-24

[21] **3,149,966**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 9/20 (2006.01) A61K 31/352 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61K 47/40 (2006.01)**

[25] EN
[54] **CANNABIDIOL ORALLY DISINTEGRATING TABLETS**
[54] **COMPRIMES DE CANNABIDIOL A DESINTEGRATION ORALE**

[72] KUMAR, VINOD REDDY BONDU, IN
[72] IYER, CHAMARAHALLI KRISHNA SUNDHAR, IN
[72] IYER, VENKAT, IN
[71] TENSHI KAIZEN PRIVATE LIMITED, IN
[85] 2022-02-04
[86] 2020-08-12 (PCT/IN2020/050705)
[87] (WO2021/028943)
[30] IN (201941032533) 2019-08-12

[21] **3,149,977**
[13] A1

[51] **Int.Cl. H02J 13/00 (2006.01) G01M 5/00 (2006.01) H02J 3/00 (2006.01)**

[25] EN
[54] **SYSTEM FOR MONITORING A POWER DISTRIBUTION NETWORK AND METHODS OF BUILDING AND PERFORMING OPERATIONS ON SUCH SYSTEM**
[54] **SYSTEME DE SURVEILLANCE D'UN RESEAU DE DISTRIBUTION D'ENERGIE ET PROCEDES DE CONSTRUCTION ET D'EXECUTION D'OPERATIONS SUR UN TEL SYSTEME**

[72] VANGEN, KNUT, NO
[72] EIDE, JO MORTEN, NO
[71] COMROD AS, NO
[85] 2022-02-04
[86] 2020-09-16 (PCT/NO2020/050239)
[87] (WO2021/054841)
[30] NO (20191123) 2019-09-17

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[21] **3,150,010**
[13] A1

[51] **Int.Cl. H04L 12/18 (2006.01)**
[25] EN
[54] **OPTIMIZED MULTICAST GROUP FORWARDING**
[54] **TRANSFERT OPTIMISE DE GROUPE DE MULTIDIFFUSION**
[72] STUREK, DONALD EUGENE, US
[71] ITRON, INC., US
[85] 2022-02-04
[86] 2020-08-17 (PCT/US2020/046680)
[87] (WO2021/030802)
[30] US (16/542,073) 2019-08-15

[21] **3,150,011**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A61K 9/00 (2006.01) A61K 31/05 (2006.01) A61K 47/02 (2006.01) A61K 47/38 (2006.01)**
[25] EN
[54] **INTRAORAL FAST DISINTEGRATING FORMULATION CONTAINING HEMP OIL EXTRACT OR HEMP POWDER EXTRACT AS RAW MATERIAL OF FORMULATION**
[54] **FORMULATION INTRA-ORALE A DESINTEGRATION RAPIDE CONTENANT UN EXTRAIT D'HUILE DE CHANVRE OU UN EXTRAIT DE POUDRE DE CHANVRE COMME MATIERE PREMIERE DE LA FORMULATION**
[72] JEON, HONG-RYEOL, KR
[72] KWON, DO-WOO, KR
[72] LEE, BONG-SANG, KR
[72] PARK, SU-JUN, KR
[72] KIL, MYEONGCHEOL, KR
[72] YANG, LEE-SEUL, KR
[71] CTC SCIENCE INC., KR
[85] 2022-02-04
[86] 2020-08-07 (PCT/KR2020/010512)
[87] (WO2021/029631)
[30] KR (10-2019-0097649) 2019-08-09

[21] **3,150,012**
[13] A1

[51] **Int.Cl. C01B 32/05 (2017.01) B01J 20/20 (2006.01) B01J 20/30 (2006.01)**
[25] EN
[54] **CONTINUOUS PROCESS FOR MANUFACTURING HIERARCHICALLY POROUS CARBON MATERIAL**
[54] **PROCEDE CONTINU DE FABRICATION DE MATERIAU CARBONE POREUX HIERARCHISE**
[72] SAYLER, FRANCHESSA, US
[72] KOTBAGI, TRUPTI, US
[72] BROWN, JOHN, US
[72] LEIBENGUTH, KYLE, US
[71] THRUPORE TECHNOLOGIES, INC., US
[85] 2022-02-04
[86] 2020-09-08 (PCT/US2020/049756)
[87] (WO2021/050441)
[30] US (62/897,618) 2019-09-09

[21] **3,150,013**
[13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) E05B 17/22 (2006.01) E05B 65/10 (2006.01)**
[25] EN
[54] **SENSING AND CONTROL OF ACCESS CONTROL DEVICES**
[54] **DETECTION ET COMMANDE DE DISPOSITIFS DE CONTROLE D'ACCES**
[72] KUSANALE, VISHAL S., IN
[72] VEDAMURTHY, AVINASH K., IN
[72] CARPENTER, JOHN C., US
[71] SCHLAGE LOCK COMPANY LLC, US
[85] 2022-02-04
[86] 2020-08-06 (PCT/US2020/045196)
[87] (WO2021/026348)
[30] US (16/532,999) 2019-08-06

[21] **3,150,014**
[13] A1

[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 90/00 (2006.01) G07F 19/00 (2006.01)**
[25] EN
[54] **DIRECT-SCAN CASH-MANAGEMENT SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE GESTION D'ARGENT LIQUIDE A BALAYAGE DIRECT**
[72] HUNT, DALE, US
[72] MIZAR, ETHELIND, US
[71] HUNT, DALE, US
[71] MIZAR, ETHELIND, US
[85] 2022-02-04
[86] 2019-08-06 (PCT/US2019/045376)
[87] (WO2020/033458)
[30] US (62/715,198) 2018-08-06
[30] US (62/832,205) 2019-04-10

[21] **3,150,015**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) C12N 5/071 (2010.01) C12N 5/077 (2010.01) C12N 5/02 (2006.01)**
[25] EN
[54] **ORGANOID MESODERM LINEAGE DIVERSIFICATION**
[54] **DIVERSIFICATION DE LIGNEES MESODERMIQUES D'ORGANOIDES**
[72] ZORN, AARON M., US
[72] HAN, LU, US
[72] KISHIMOTO, KEISHI, US
[72] MORIMOTO, MITSURU, JP
[71] CHILDREN'S HOSPITAL MEDICAL CENTER, US
[71] RIKEN, JP
[85] 2022-02-04
[86] 2020-08-25 (PCT/US2020/047846)
[87] (WO2021/041443)
[30] US (62/892,781) 2019-08-28

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[21] **3,150,016**
[13] A1

[51] **Int.Cl. H04N 13/00 (2018.01)**
[25] EN
[54] **LIGHT FIELD DISPLAY SYSTEM
BASED DIGITAL SIGNAGE
SYSTEM**
[54] **SYSTEME DE SIGNALISATION
NUMERIQUE BASE SUR UN
SYSTEME D'AFFICHAGE A
CHAMP LUMINEUX**
[72] KARAFIN, JONATHAN SEAN, US
[72] BEVENSEE, BRENDAN ELWOOD,
US
[72] DOHM, JOHN, US
[71] LIGHT FIELD LAB, INC., US
[85] 2022-02-04
[86] 2019-08-09 (PCT/US2019/046030)
[87] (WO2021/029859)

[21] **3,150,017**
[13] A1

[51] **Int.Cl. E02D 31/00 (2006.01) B32B
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[25] EN
[54] **USE OF CARBOXYMETHYL
STARCH IN GEOSYNTHETIC
CLAY LINERS**
[54] **UTILISATION D'AMIDON DE
CARBOXYMETHYLE DANS DES
MEMBRANES D'ARGILE
GEOSYNTHETIQUES**
[72] CORTNER, THOMAS SCOTT, US
[72] FRANTZ, ERIC, US
[71] HALLIBURTON ENERGY
SERVICES, INC., US
[85] 2022-02-04
[86] 2019-10-09 (PCT/US2019/055298)
[87] (WO2021/066851)
[30] US (16/592,473) 2019-10-03

[21] **3,150,018**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **MESSAGING PLATFORM FOR
DELIVERING REAL-TIME
MESSAGES**
[54] **PLATEFORME DE MESSAGERIE
DE DISTRIBUTION DE
MESSAGES EN TEMPS REEL**
[72] RENJITH, RISHI, US
[72] ANGHEL, MIRELA, US
[72] GOODIER, KEVIN, US
[72] LEONTIEV, GEORGE, US
[72] O CRUALAOICH, DAITHI, US
[72] ASHWORTH, TOM, US
[72] PLANT, SOL, US
[72] SAVVIDES, ANDRES, US
[72] MARTY, GUILLAUME, US
[72] COWLING, RALPH, US
[72] ANDRES GARCIA CRESPO,
LEONARDO, US

[21] **3,150,019**
[13] A1

[71] TWITTER, INC., US
[85] 2022-02-04
[86] 2020-07-28 (PCT/US2020/070315)
[87] (WO2021/026553)
[30] US (62/883,633) 2019-08-06
[30] US (16/668,811) 2019-10-30
[30] US (16/669,044) 2019-10-30

[21] **3,150,019**
[13] A1

[51] **Int.Cl. E21B 33/12 (2006.01) C22C
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C22C 23/04 (2006.01) C22C 23/06
(2006.01) E21B 33/127 (2006.01)**
[25] EN
[54] **METALLIC DELAY BARRIER
COATING FOR SWELLABLE
PACKERS**
[54] **REVEITEMENT DE BARRIERE
RETARD METALLIQUE POUR
GARNITURES D'ETANCHEITE
GONFLABLES**
[72] FRIPP, MICHAEL LINLEY, US
[72] ZHONG, XIAOQUANG ALLAN, US
[72] WELSHOEFER, BENJAMIN JON, US
[71] HALLIBURTON ENERGY
SERVICES, INC., US
[85] 2022-02-04
[86] 2019-12-17 (PCT/US2019/066942)
[87] (WO2021/126173)

[21] **3,150,020**
[13] A1

[51] **Int.Cl. E21B 33/127 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR
PREVENTING HYDROSTATIC
HEAD WITHIN A WELL**
[54] **PROCEDES ET SYSTEMES DE
PREVENTION DE CHARGE
HYDROSTATIQUE DANS UN
PUITS**
[72] PARKS, STEPHEN, US
[71] VERTICE OIL TOOLS, US
[71] PARKS, STEPHEN, US
[85] 2022-02-05
[86] 2020-01-15 (PCT/US2020/013611)
[87] (WO2021/050099)
[30] US (16/571,112) 2019-09-14

[21] **3,150,021**
[13] A1

[51] **Int.Cl. B65D 1/36 (2006.01) B65D
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[25] EN
[54] **LEAK-RESISTANT TRAY AND LID**
[54] **PLATEAU ET COUVERCLE
RESISTANTS AUX FUITES**
[72] BONTRAGER, RICK, US
[72] MAURIELLO, JOHN, US
[72] LEKEU, ESTHER, US
[71] ZUME, INC., US
[85] 2022-02-04
[86] 2020-08-19 (PCT/US2020/046999)
[87] (WO2021/034935)
[30] US (62/889,006) 2019-08-19

[21] **3,150,022**
[13] A1

[51] **Int.Cl. A01M 3/00 (2006.01) F41B
11/52 (2013.01) A01M 27/00 (2006.01)
A63F 9/02 (2006.01) F41B 11/00
(2013.01) F41G 1/35 (2006.01)**
[25] EN
[54] **BUG KILLING GUN**
[54] **PISTOLET POUR TUER DES
INSECTES**
[72] MAGGIORE, LOREN, US
[71] MAGGIORE, LOREN, US
[85] 2022-02-04
[86] 2020-04-07 (PCT/US2020/027065)
[87] (WO2021/206696)

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[21] **3,150,023**
[13] A1

[51] **Int.Cl. F41C 27/00 (2006.01) F41G 11/00 (2006.01)**
[25] EN
[54] **CELL PHONE MOUNT FOR BUG KILLING GUNS**
[54] **SUPPORT DE TELEPHONE CELLULAIRE POUR PISTOLETS D'ELIMINATION D'INSECTES**
[72] MAGGIORE, LORENZO, US
[71] MAGGIORE, LORENZO, US
[85] 2022-02-04
[86] 2020-06-27 (PCT/US2020/040021)
[87] (WO2021/262198)

[21] **3,150,025**
[13] A1

[51] **Int.Cl. C12Q 1/6895 (2018.01) A01H 1/04 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHODS OF IDENTIFYING, SELECTING, AND PRODUCING ANTHRACNOSE STALK ROT RESISTANT CROPS**
[54] **PROCEDES D'IDENTIFICATION, DE SELECTION ET DE PRODUCTION DE CULTURES RESISTANT A LA POURRITURE DE LA TIGE CAUSEE PAR L'ANTHRACNOSE**
[72] DELEON, ALYSSA MARIE, US
[72] FENGLER, KEVIN A, US
[72] THATCHER, SHAWN, US
[72] WOLTERS, PETRA J, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2022-02-04
[86] 2020-08-17 (PCT/US2020/046665)
[87] (WO2021/041077)
[30] US (62/890,729) 2019-08-23

[21] **3,150,026**
[13] A1

[51] **Int.Cl. B65D 25/04 (2006.01) A45C 11/00 (2006.01) A45C 13/02 (2006.01) B65D 43/16 (2006.01) A01K 97/06 (2006.01)**
[25] EN
[54] **CONFIGURABLE STORAGE CONTAINER AND COMPARTMENTS**
[54] **RECIPIENT ET COMPARTIMENTS DE STOCKAGE CONFIGURABLES**
[72] SUTTON, JEANNE, US
[71] SUTTON, JEANNE, US
[85] 2022-02-04
[86] 2020-07-07 (PCT/US2020/041086)
[87] (WO2021/025817)
[30] US (62/882,986) 2019-08-05

[21] **3,150,027**
[13] A1

[51] **Int.Cl. G06T 7/11 (2017.01) A61B 5/00 (2006.01) A61C 9/00 (2006.01) G06T 5/00 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM AND COMPUTER READABLE STORAGE MEDIA FOR THE DETECTION OF ERRORS IN THREE-DIMENSIONAL MEASUREMENTS**
[54] **PROCEDE, SYSTEME ET SUPPORTS D'INFORMATIONS LISIBLES PAR ORDINATEUR POUR LA DETECTION D'ERREURS DANS DES MESURES TRIDIMENSIONNELLES**
[72] SCHNABEL, RUWEN, DE
[72] SCHNEIDER, SASCHA, DE
[72] ADAMSON, ANDERS, DE
[72] MEYER, MARCEL, DE
[71] DENTSPLY SIRONA INC., US
[85] 2022-02-04
[86] 2020-09-22 (PCT/US2020/051930)
[87] (WO2021/061606)
[30] US (16/579,995) 2019-09-24

[21] **3,150,028**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **A METHOD FOR PREPARING IVOSIDENIB AND AN INTERMEDIATE THEREOF**
[54] **PROCEDE DE PREPARATION D'IVOSIDENIB ET D'UN INTERMEDIAIRE DE CELUI-CI**
[72] SIZEMORE, JACOB PAUL, US
[72] ZHANG, SHIJIE, US
[72] VO, NHA HUU, US
[71] LES LABORATOIRES SERVIER, FR
[85] 2022-02-04
[86] 2020-08-07 (PCT/US2020/045368)
[87] (WO2021/026436)
[30] US (62/884,480) 2019-08-08

[21] **3,150,029**
[13] A1

[51] **Int.Cl. A21C 1/14 (2006.01) A21C 1/00 (2006.01) A21C 1/02 (2006.01) F16P 3/08 (2006.01) F16P 3/12 (2006.01)**
[25] EN
[54] **KNEADING MACHINE FOR DOUGH WITH PINCH PROTECTION**
[54] **MACHINE DE PETRISSAGE POUR PATES A MECANISME ANTI-PINCEMENT ET PROCEDE DE PIVOTEMENT D'UN OUTIL DE PETRISSAGE**
[72] BENSMANN, STEFAN, DE
[72] GHANI, HASHEM, DE
[71] DIOSNA DIERKS & SOHNE GMBH, DE
[85] 2022-02-07
[86] 2020-08-07 (PCT/EP2020/072222)
[87] (WO2021/023852)
[30] EP (19190420.0) 2019-08-07

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[21] **3,150,031**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS OF CONTROLLABLE NATURAL LANGUAGE GENERATION**
[54] **SYSTEMES ET PROCEDES DE GENERATION DE LANGAGE NATUREL COMMANDABLE**

[72] PELEG, BARAK, IL
[72] PADNOS, DAN, IL
[72] MORAG, AMNON, IL
[72] LUMBROSO, GILAD, IL
[72] SHOHAM, YOAV, IL
[72] GOSHEN, ORI, IL
[72] LENZ, BARAK, IL
[72] DAGAN, OR, IL
[71] AI21 LABS, IL
[85] 2022-02-04
[86] 2020-07-13 (PCT/US2020/041846)
[87] (WO2021/025825)
[30] US (62/882,732) 2019-08-05
[30] US (62/882,734) 2019-08-05
[30] US (62/943,493) 2019-12-04

[21] **3,150,032**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01) G06F 3/033 (2013.01)**

[25] EN
[54] **INTRAOCULAR LENS WITH EXTENDED DEPTH OF FOCUS**
[54] **LENTILLE INTRAOCULAIRE A PROFONDEUR DE FOYER ETENDUE**

[72] MARCOS CELESTINO, SUSANA, ES
[72] DORRONSORO DIAZ, CARLOS, ES
[72] REDZOVIC, SUAD, BE
[72] PAGNOULLE, CHRISTOPHE, BE
[71] PHYSIOL SA, BE
[71] CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (CSIC), ES
[85] 2022-02-07
[86] 2020-09-10 (PCT/EP2020/075273)
[87] (WO2021/048248)
[30] ES (P201930791) 2019-09-11
[30] BE (BE2019/5669) 2019-10-09

[21] **3,150,033**
[13] A1

[51] **Int.Cl. G01S 5/00 (2006.01)**

[25] EN
[54] **LOCATION DETERMINATION OF MOBILE DEVICES**
[54] **DETERMINATION D'EMPLACEMENTS DE DISPOSITIFS MOBILES**

[72] KEAL, WILLIAM KERRY, US
[71] BUILDING ROBOTICS, INC., US
[85] 2022-02-04
[86] 2020-07-17 (PCT/US2020/042479)
[87] (WO2021/025845)
[30] US (16/534,591) 2019-08-07

[21] **3,150,034**
[13] A1

[51] **Int.Cl. A61K 35/745 (2015.01) A23L 33/00 (2016.01) A23L 33/125 (2016.01) A23L 33/135 (2016.01) A23L 33/15 (2016.01) A23L 33/16 (2016.01) A61K 31/047 (2006.01) A61K 31/7004 (2006.01) A61K 33/30 (2006.01)**

[25] EN
[54] **MYO-INOSITOL AND THE PREVENTION OF PPRM**
[54] **MYO-INOSITOL ET PREVENTION LA RPMAT**

[72] CHAN, SHIAO-YNG, SG
[72] GODFREY, KEITH MALCOLM, GB
[72] CUTFIELD, WAYNE, NZ
[72] SILVA ZOLEZZI, IRMA, SG
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-02-07
[86] 2020-08-21 (PCT/EP2020/073450)
[87] (WO2021/037698)
[30] EP (19193541.0) 2019-08-26
[30] EP (20181446.4) 2020-06-22

[21] **3,150,035**
[13] A1

[51] **Int.Cl. A23L 27/40 (2016.01)**

[25] EN
[54] **IMPROVED LOW SODIUM SALT COMPOSITION**
[54] **COMPOSITION AMELIOREE DE SEL A FAIBLE TENEUR EN SODIUM**

[72] CONTRERAS, JAVIER, US
[72] MANZANILLA, VICTOR, US
[71] SALARIUS LTD., US
[85] 2022-02-04
[86] 2020-07-31 (PCT/US2020/044569)
[87] (WO2021/026017)
[30] US (16/535,703) 2019-08-08

[21] **3,150,036**
[13] A1

[51] **Int.Cl. H01L 27/18 (2006.01) H01L 39/22 (2006.01) H01L 39/24 (2006.01)**

[25] EN
[54] **PARAMETRIC AMPLIFIER FOR QUBITS**
[54] **AMPLIFICATEUR PARAMETRIQUE POUR BITS QUANTIQUES**

[72] WHITE, THEODORE CHARLES, US
[72] MEGRANT, ANTHONY EDWARD, US
[71] GOOGLE LLC, US
[85] 2022-02-04
[86] 2020-08-03 (PCT/US2020/044743)
[87] (WO2021/026070)
[30] US (62/882,929) 2019-08-05

[21] **3,150,037**
[13] A1

[51] **Int.Cl. C12N 5/0789 (2010.01) C12N 5/078 (2010.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01)**

[25] EN
[54] **CULTURE MEDIUM FOR HAEMATOPOIETIC INDUCTION**
[54] **MILIEU DE CULTURE POUR INDUCTION HEMATOPOIETIQUE**

[72] YANG, CHENG TAO, GB
[72] CARPENTER, LEE, GB
[71] ADAPTIMMUNE LIMITED, GB
[85] 2022-02-07
[86] 2020-08-20 (PCT/EP2020/073407)
[87] (WO2021/032855)
[30] GB (1911955.1) 2019-08-20
[30] GB (2012306.3) 2020-08-07

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[21] **3,150,038**
[13] A1

[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/22 (2006.01) C08G 18/42 (2006.01) C08G 18/44 (2006.01) C08G 18/48 (2006.01) C08G 18/75 (2006.01) C08G 18/76 (2006.01) C08G 18/83 (2006.01) C08L 75/04 (2006.01)**

[25] EN
[54] **SELECTIVE POLYURETHANE PREPOLYMER SYNTHESIS**
[54] **SYNTHESE SELECTIVE DE PREPOLYMERES DE POLYURETHANE**

[72] LANGERBEINS, KLAUS, DE
[72] SENZLOBER, MICHAEL, DE
[72] RADEBNER, JUDITH, DE
[71] POLYU GMBH, DE
[85] 2022-02-07
[86] 2020-08-12 (PCT/EP2020/072688)
[87] (WO2021/028511)
[30] EP (19191328.4) 2019-08-12
[30] EP (19191330.0) 2019-08-12

[21] **3,150,039**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING STATUS OF HEALTH OF ANIMALS ARRIVING AT A FEED LOCATION**
[54] **SYSTEME ET PROCEDE DE DETERMINATION DE L'ETAT DE SANTE D'ANIMAUX ARRIVANT A UN EMPLACEMENT D'ENGRAISSEMENT**

[72] SCHELLER, ROBERT S., US
[72] NICKELL, JASON, US
[72] NATARAJ, AKSHAYA, US
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2022-02-04
[86] 2020-08-03 (PCT/US2020/044769)
[87] (WO2021/026082)
[30] US (62/883,937) 2019-08-07

[21] **3,150,040**
[13] A1

[51] **Int.Cl. A61L 26/00 (2006.01)**

[25] EN
[54] **LIQUID DRESSING COMPOSITIONS AND THEIR VETERINARY USES**
[54] **COMPOSITIONS DE PANSEMENT LIQUIDE ET LEURS UTILISATIONS VETERINAIRES**

[72] POWELL, JONATHAN, GB
[72] FARIA, NUNO, GB
[72] BASTOS, CARLOS PASSOS, GB
[72] THOM, WILL, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2022-02-07
[86] 2020-08-07 (PCT/EP2020/072317)
[87] (WO2021/023886)
[30] GB (1911361.2) 2019-08-08
[30] GB (2007917.4) 2020-05-27

[21] **3,150,041**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01) A61P 29/00 (2006.01)**

[25] EN
[54] **COMPOSITIONS AND METHODS OF TREATING PSORIASIS AND ATOPIC DERMATITIS USING PREVOTELLA HISTICOLA**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT DU PSORIASIS ET DE LA DERMATITE ATOPIQUE FAISANT APPEL A PREVOTELLA HISTICOLA**

[72] ABEL, S. M., US
[72] BARTH, KRISTIE, US
[72] BODMER, MARK, US
[72] CORMACK, TAYLOR A., US
[72] GANGULY, TANMOY, US
[72] GARDNER, HUMPHREY, US
[72] ITANO, ANDREA, US
[72] MCHALE, DUNCAN, US
[72] NOOR, MUSTAFA, US
[72] PONICHTERA, HOLLY, US
[72] RAMANI, KRITIKA, US
[72] SANDY, PETER, US
[71] EVELO BIOSCIENCES, INC., US
[85] 2022-02-04
[86] 2020-08-04 (PCT/US2020/044851)
[87] (WO2021/026130)
[30] US (62/883,085) 2019-08-05
[30] US (62/883,943) 2019-08-07
[30] US (62/930,370) 2019-11-04
[30] US (62/940,005) 2019-11-25
[30] US (63/023,559) 2020-05-12
[30] US (63/030,581) 2020-05-27

[21] **3,150,042**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 33/00 (2006.01) A61K 33/04 (2006.01) A61K 33/06 (2006.01) A61K 33/26 (2006.01) A61K 33/30 (2006.01) A61K 33/34 (2006.01) A61K 33/38 (2006.01) A61K 35/64 (2015.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61L 26/00 (2006.01) A61P 17/02 (2006.01) A61P 31/00 (2006.01) A61P 31/02 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01) A61P 31/12 (2006.01) A61P 33/00 (2006.01)**

[25] EN
[54] **LIQUID DRESSING COMPOSITIONS AND THEIR USES**
[54] **COMPOSITIONS DE PANSEMENT LIQUIDE ET LEURS UTILISATIONS**

[72] POWELL, JONATHAN, GB
[72] FARIA, NUNO, GB
[72] BASTOS, CARLOS PASSOS, GB
[72] THOM, WILL, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2022-02-07
[86] 2020-08-07 (PCT/EP2020/072314)
[87] (WO2021/023885)
[30] GB (1911361.2) 2019-08-08
[30] GB (2007917.4) 2020-05-27

[21] **3,150,043**
[13] A1

[51] **Int.Cl. C02F 1/72 (2006.01) C02F 1/26 (2006.01) C02F 1/52 (2006.01) C02F 1/58 (2006.01) C02F 1/66 (2006.01)**

[25] EN
[54] **METHODS AND COMPOSITIONS FOR THE TREATMENT OF PRODUCED WATER**
[54] **PROCEDES ET COMPOSITIONS POUR LE TRAITEMENT D'EAU PRODUITE**

[72] SWANSON, TOM, US
[72] HUNT, SEAN, US
[72] CHAKRABARTI, GAURAB, US
[72] AN, JUN SU, US
[71] SOLUGEN, INC., US
[85] 2022-02-02
[86] 2020-07-30 (PCT/US2020/044308)
[87] (WO2021/025957)
[30] US (62/882,453) 2019-08-02

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[21] **3,150,044**
[13] A1

[51] **Int.Cl. B23B 27/04 (2006.01)**
[25] EN
[54] **CUTTING INSERT AND TOOL HAVING SUCH A CUTTING INSERT**
[54] **INSERT DE COUPE ET OUTIL COMPORTANT UN TEL INSERT DE COUPE**
[72] STEINHILBER, MARC, DE
[72] SCHAEFER, HANS, DE
[71] HARTMETALL-
WERKZEUGFABRIK PAUL HORN
GMBH, DE
[85] 2022-02-07
[86] 2020-08-06 (PCT/EP2020/072175)
[87] (WO2021/023835)
[30] DE (10 2019 121 468.8) 2019-08-08

[21] **3,150,046**
[13] A1

[51] **Int.Cl. C07K 16/22 (2006.01) A61K 39/395 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **HUMANIZED ANTI-VEGF FAB ANTIBODY FRAGMENT AND USE THEREOF**
[54] **FRAGMENT D'ANTICORPS FAB ANTI-VEGF HUMANISE ET SON UTILISATION**
[72] XIE, LIANGZHI, CN
[72] SUN, CHUNYUN, CN
[72] ZHAO, JUN, CN
[72] KONG, DESHENG, CN
[71] SINOCELLTECH LTD, CN
[85] 2022-01-19
[86] 2020-07-17 (PCT/CN2020/102560)
[87] (WO2021/013065)
[30] CN (201910657311.8) 2019-07-19

[21] **3,150,047**
[13] A1

[51] **Int.Cl. C09J 7/29 (2018.01) C09J 7/38 (2018.01)**
[25] EN
[54] **TAPE, ARTICLE INCLUDING TAPE AND COMPOSITE LAYER, AND RELATED METHODS**
[54] **RUBAN, ARTICLE COMPRENANT UN RUBAN ET UNE COUCHE COMPOSITE, ET PROCEDES ASSOCIES**
[72] WIDENBRANT, MARTIN J. O., US
[72] SONTAG, STEPHEN K., US
[72] GUNDALE, JEREMY P., US
[72] LEWANDOWSKI, KEVIN M., US
[72] RICHARDSON, JENNA L., US
[72] BERGMAN, JAMES A., US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2022-02-07
[86] 2020-08-05 (PCT/IB2020/057409)
[87] (WO2021/024206)
[30] US (62/883,970) 2019-08-07

[21] **3,150,048**
[13] A1

[51] **Int.Cl. H04N 13/183 (2018.01) H04N 21/20 (2011.01) H04N 21/431 (2011.01) H04N 21/80 (2011.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR PROVIDING CONTENT TO A MEDIA PLAYING DEVICE**
[54] **PROCEDE ET SYSTEME DE FOURNITURE DE CONTENU A UN DISPOSITIF DE LECTURE MULTIMEDIA**
[72] HEWSON, JASON, AU
[71] HOPPR LTD, AU
[85] 2022-02-03
[86] 2020-08-05 (PCT/AU2020/050807)
[87] (WO2021/022333)

[21] **3,150,049**
[13] A1

[51] **Int.Cl. B01D 61/42 (2006.01) B01D 61/44 (2006.01) B01D 69/12 (2006.01) B01D 71/02 (2006.01) C02F 1/469 (2006.01)**
[25] EN
[54] **LITHIUM ION CONDUCTOR-POLYMER-CERAMIC MEMBRANE**
[54] **MEMBRANE CERAMIQUE-POLYMERE-CONDUCTRICE D'ION LITHIUM**
[72] WANG, HAUNTING, AU
[72] NGUYEN, NHI SA, AU
[72] WANG, ZHOYOU, AU
[71] MONASH UNIVERSITY, AU
[85] 2022-02-07
[86] 2020-08-12 (PCT/AU2020/050839)
[87] (WO2021/026607)
[30] AU (2019902905) 2019-08-12

[21] **3,150,053**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) C12N 15/113 (2010.01) A61K 35/768 (2015.01) A61P 35/00 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **GENETICALLY MODIFIED ENTEROVIRUS VECTORS**
[54] **VECTEURS D'ENTEROVIRUS GENETIQUEMENT MODIFIES**
[72] LUO, HONGLIN, CA
[72] JIA, WILLIAM WEI-GUO, CA
[72] LIU, HUITAO, CA
[72] SAMUDIO, ISMAEL, CA
[71] VIROGIN BIOTECH CANADA LTD, CA
[85] 2022-02-04
[86] 2020-08-05 (PCT/US2020/045069)
[87] (WO2021/026275)
[30] US (62/883,055) 2019-08-05

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[51] Int.Cl. A61K 9/00 (2006.01) A61K 39/00 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07K 16/22 (2006.01)	[51] Int.Cl. A61B 17/80 (2006.01) A61B 17/84 (2006.01) A61B 17/88 (2006.01) A61F 2/40 (2006.01)	[51] Int.Cl. A61K 9/127 (2006.01) A61K 31/7088 (2006.01) A61K 38/00 (2006.01) A61K 47/24 (2006.01) A61K 47/28 (2006.01) A61K 47/44 (2017.01)
[25] EN	[25] EN	[25] EN
[54] USE OF TGF-ALPHA POLYPEPTIDE OR ANTI-TGF-ALPHA ANTIBODIES FOR THE TREATMENT OF DISEASES AND DISORDERS	[54] ACROMION FRACTURE REPAIR SYSTEM	[54] COMPOSITIONS AND METHODS FOR ENHANCED DELIVERY OF AGENTS
[54] UTILISATION DE POLYPEPTIDES TGF-ALPHA OU D'ANTICORPS ANTI-TGF-ALPHA POUR LE TRAITEMENT DE MALADIES ET DE TROUBLES	[54] SYSTEME DE REPARATION DE FRACTURE DE L'ACROMION	[54] COMPOSITIONS ET METHODES POUR UNE ADMINISTRATION AMELIOREE D'AGENTS
[72] TODARO, GEORGE J., US	[72] ROCHE, CHRISTOPHER P., US	[72] BENENATO, KERRY, US
[72] HELLSTROM, INGEGERD, US	[72] GAYDOS, COREY, US	[72] SABNIS, STACI, US
[72] HELLSTROM, KARL ERIK, US	[72] BENDER, MARK, US	[72] HENNESSY, EDWARD, US
[71] TODARO, GEORGE J., US	[72] KOOGLE, DAVID, US	[72] BURKE, KRISTINE, US
[71] HELLSTROM, INGEGERD, US	[72] ATHWAL, GEORGE S., US	[72] THEISEN, MATTHEW, US
[71] HELLSTROM, KARL ERIK, US	[72] SANCHEZ-SOTELO, JOAQUIN, US	[72] MILTON, JACLYN, US
[85] 2022-02-04	[71] EXACTECH, INC, US	[72] SALERNO, TIMOTHY, US
[86] 2020-08-06 (PCT/US2020/045134)	[85] 2022-02-04	[72] HOGE, STEPHEN, US
[87] (WO2021/026312)	[86] 2020-08-06 (PCT/US2020/045206)	[71] MODERNATX, INC., US
[30] US (16/534,691) 2019-08-07	[87] (WO2021/026354)	[85] 2022-02-04
	[30] US (62/883,414) 2019-08-06	[86] 2020-08-06 (PCT/US2020/045213)
		[87] (WO2021/026358)
		[30] US (62/884,133) 2019-08-07
	[21] 3,150,060 [13] A1	
	[51] Int.Cl. A61B 17/88 (2006.01) A61B 17/04 (2006.01) A61B 17/15 (2006.01) A61B 17/16 (2006.01) A61B 17/17 (2006.01) A61B 17/72 (2006.01) A61B 17/80 (2006.01)	
	[25] EN	
	[54] BUNION CORRECTION SYSTEM AND METHOD	
	[54] SYSTEME ET PROCEDE DE CORRECTION D'HALLUX VALGUS	
	[72] HOLLIS, CHAD, US	
	[72] SAYGER, DANIEL, US	
	[72] BOMAR, BRADLEY, US	
	[71] CROSSROADS EXTREMITY SYSTEMS, LLC, US	
	[85] 2022-02-04	
	[86] 2020-08-06 (PCT/US2020/045210)	
	[87] (WO2021/026357)	
	[30] US (62/883,819) 2019-08-07	
[21] 3,150,055 [13] A1		[21] 3,150,068 [13] A1
[51] Int.Cl. A63B 55/00 (2015.01) A63B 55/10 (2006.01) A63B 69/36 (2006.01)		[51] Int.Cl. B65G 1/137 (2006.01) G06Q 10/08 (2012.01)
[25] EN		[25] EN
[54] APPARATUS AND SYSTEM FOR SUPPORTING A GOLF CLUB		[54] SYSTEMS AND METHODS FOR SORTING OBJECTS TO LARGE NUMBERS OF ORDERS
[54] APPAREIL ET SYSTEME DESTINES A SOUTENIR UNE CROSSE DE GOLF		[54] SYSTEMES ET PROCEDES DE TRI D'OBJETS EN UNE PLURALITE DE COMMANDES
[72] NAPPE, CHRISTOPHER, US		[72] GEYER, CHRISTOPHER, US
[71] NAPPE, CHRISTOPHER, US		[72] ROMANO, JOSEPH, US
[85] 2022-02-04		[72] AMEND, JOHN RICHARD, JR., US
[86] 2020-08-06 (PCT/US2020/045162)		[72] BUCK, CHRISTOPHER, US
[87] (WO2021/026327)		[72] EWART, ANDREW, US
[30] US (62/883,280) 2019-08-06		[72] MARONEY, KYLE, US
		[72] WAGNER, THOMAS, US
		[71] BERKSHIRE GREY, INC., US
		[85] 2022-02-04
		[86] 2020-08-06 (PCT/US2020/045214)
		[87] (WO2021/026359)
		[30] US (62/884,353) 2019-08-08

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[21] **3,150,071**

[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C12N
5/00 (2006.01)**

[25] EN

[54] **CELL-SURFACE RECEPTORS
RESPONSIVE TO LOSS OF
HETEROZYGOSITY**

[54] **RECEPTEURS DE SURFACE
CELLULAIRE SENSIBLES A LA
PERTE D'HETEROZYGOSITE**

[72] KAMB, CARL ALEXANDER, US

[72] HAMBURGER, AGNES, US

[72] XU, HAN, US

[71] A2 BIOTHERAPEUTICS, INC., US

[85] 2022-02-04

[86] 2020-08-06 (PCT/US2020/045228)

[87] (WO2021/030149)

[30] US (62/885,093) 2019-08-09

[30] US (63/005,670) 2020-04-06

[21] **3,150,089**

[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K
31/519 (2006.01) A61P 5/24 (2006.01)
A61P 15/00 (2006.01)**

[25] EN

[54] **GNRH ANTAGONISTS FOR THE
TREATMENT OF ESTROGEN-
DEPENDENT DISORDERS**

[54] **ANTAGONISTES DE GNRH POUR
LE TRAITEMENT DE TROUBLES
DEPENDANT DES \square STROGENES**

[72] GOTTELAND, JEAN-PIERRE, CH

[72] BESTEL, ELKE, CH

[71] OBSEVA S.A., CH

[85] 2022-02-02

[86] 2020-08-07 (PCT/EP2020/072301)

[87] (WO2021/023876)

[30] US (62/884,437) 2019-08-08

[30] US (62/914,064) 2019-10-11

[30] US (63/007,632) 2020-04-09

[30] US (63/048,526) 2020-07-06

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,148,328**
[13] A1

[51] **Int.Cl. A47G 1/20 (2006.01) A47F 5/08 (2006.01) A47G 25/06 (2006.01) A47G 29/00 (2006.01) F16B 45/00 (2006.01)**

[25] EN

[54] **WALL ANCHOR ASSEMBLIES AND RELATED WALL MOUNT SYSTEMS**

[54] **ENSEMBLES D'ANCRAGE MURAUX ET SYSTEMES DE MONTAGE MURAUX CONNEXES**

[72] WILL, GARY E., US
[72] GRICE, BYRON K., US
[72] MALOTT, DALE G., US
[71] THE HILLMAN GROUP, INC., US
[22] 2016-06-28
[41] 2017-01-05
[62] 3,073,632
[30] US (62/186,908) 2015-06-30

[21] **3,148,378**
[13] A1

[25] EN

[54] **SMART-HOME HAZARD DETECTOR PROVIDING CONTEXT SPECIFIC FEATURES AND/OR PRE-ALARM CONFIGURATIONS**

[54] **DETECTEUR DE RISQUE POUR MAISON INTELLIGENTE, PERMETTANT D'OBTENIR DES CARACTERISTIQUES SPECIFIQUES A UN CONTEXTE ET/OU DES CONFIGURATIONS DE PRE-ALARME**

[72] SLOO, DAVID, US
[72] WEBB, NICK, US
[72] MATSUOKA, YOKY, US
[72] FADELL, ANTHONY M., US
[72] ROGERS, MATTHEW L., US
[72] PETERSON, KEVIN, US
[72] DIXON, MICHAEL, US
[71] GOOGLE LLC, US
[22] 2014-10-07
[41] 2015-04-16
[62] 2,926,811
[30] US (61/887,969) 2013-10-07
[30] US (61/887,963) 2013-10-07
[30] US (14/508,555) 2014-10-07
[30] US (14/508,536) 2014-10-07
[30] US (14/508,521) 2014-10-07
[30] US (14/508,502) 2014-10-07

[21] **3,148,411**
[13] A1

[25] EN

[54] **SMART-HOME HAZARD DETECTOR PROVIDING CONTEXT SPECIFIC FEATURES AND/OR PRE-ALARM CONFIGURATIONS**

[54] **DETECTEUR DE RISQUE POUR MAISON INTELLIGENTE, PERMETTANT D'OBTENIR DES CARACTERISTIQUES SPECIFIQUES A UN CONTEXTE ET/OU DES CONFIGURATIONS DE PRE-ALARME**

[72] SLOO, DAVID, US
[72] WEBB, NICK, US
[72] FADELL, ANTHONY M., US
[72] DIXON, MICHAEL, US
[72] MATSUOKA, YOKY, US
[72] PETERSON, KEVIN, US
[72] ROGERS, MATTHEW L., US
[71] GOOGLE LLC, US
[22] 2014-10-07
[41] 2015-04-16
[62] 2,926,811
[30] US (61/887,969) 2013-10-07
[30] US (61/887,963) 2013-10-07
[30] US (14/508,555) 2014-10-07
[30] US (14/508,536) 2014-10-07
[30] US (14/508,521) 2014-10-07
[30] US (14/508,502) 2014-10-07

[21] **3,148,332**
[13] A1

[51] **Int.Cl. A47G 1/20 (2006.01) A47F 5/08 (2006.01) A47G 25/06 (2006.01) A47G 29/00 (2006.01) F16B 45/00 (2006.01)**

[25] EN

[54] **WALL ANCHOR ASSEMBLIES AND RELATED WALL MOUNT SYSTEMS**

[54] **ENSEMBLES D'ANCRAGE MURAUX ET SYSTEMES DE MONTAGE MURAUX CONNEXES**

[72] WILL, GARY E., US
[72] GRICE, BYRON K., US
[72] MALOTT, DALE G., US
[71] THE HILLMAN GROUP, INC., US
[22] 2016-06-28
[41] 2017-01-05
[62] 3,073,632
[30] US (62/186,908) 2015-06-30

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,148,421**
[13] A1

[25] EN
[54] **OXIDATIVE COUPLING OF METHANE IMPLEMENTATIONS FOR OLEFIN PRODUCTION**
[54] **COUPLAGE OXYDATIF D'IMPLEMENTATIONS METHANIQUES POUR LA PRODUCTION D'OLEFINES**
[72] CIZERON, JOEL, US
[72] DUGGAL, SUCHIA, US
[72] HARRAZ, HATEM, US
[72] HONG, JIN KI, US
[72] IYER, RAHUL, US
[72] MCCORMICK, JAROD, US
[72] RADAELLI, GUIDO, US
[72] RAFIQUE, HUMERA A., US
[72] SCHER, ERIK C., US
[72] VUDDAGIRI, SRINIVAS, US
[71] LUMMUS TECHNOLOGY LLC, US
[22] 2015-01-08
[41] 2015-07-16
[62] 2,935,946
[30] US (61/925,627) 2014-01-09
[30] US (61/955,112) 2014-03-18
[30] US (61/996,789) 2014-05-14
[30] US (62/050,720) 2014-09-15
[30] US (62/073,478) 2014-10-31
[30] US (62/086,650) 2014-12-02

[21] **3,148,423**
[13] A1

[51] **Int.Cl. B62D 25/02 (2006.01) B62D 25/00 (2006.01) F16S 1/12 (2006.01)**
[25] EN
[54] **COMPOSITE PANEL EDGE TREATMENTS AND JOINTS AND CARGO BODY HAVING SAME**
[54]
[72] FENTON, GARY L., US
[71] STI HOLDINGS, INC., US
[22] 2015-06-04
[41] 2015-12-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

[21] **3,148,424**
[13] A1

[25] EN
[54] **SMART-HOME HAZARD DETECTOR PROVIDING CONTEXT SPECIFIC FEATURES AND/OR PRE-ALARM CONFIGURATIONS**
[54] **DETECTEUR DE RISQUE POUR MAISON INTELLIGENTE, PERMETTANT D'OBTENIR DES CARACTERISTIQUES SPECIFIQUES A UN CONTEXTE ET/OU DES CONFIGURATIONS DE PRE-ALARME**
[72] DIXON, MICHAEL, US
[72] FADELL, ANTHONY M., US
[72] MATSUOKA, YOKY, US
[72] PETERSON, KEVIN, US
[72] ROGERS, MATTHEW L., US
[72] SLOO, DAVID, US
[72] WEBB, NICK, US
[71] GOOGLE LLC, US
[22] 2014-10-07
[41] 2015-04-16
[62] 2,926,811
[30] US (61/887,969) 2013-10-07
[30] US (61/887,963) 2013-10-07
[30] US (14/508,555) 2014-10-07
[30] US (14/508,536) 2014-10-07
[30] US (14/508,521) 2014-10-07
[30] US (14/508,502) 2014-10-07

[21] **3,148,429**
[13] A1

[25] EN
[54] **COMPOSITIONS COMPRISING FLUOROOLEFINS AND USES THEREOF**
[54] **COMPOSITIONS COMPRENANT DES OLEFINES FLUOREES ET LEURS UTILISATIONS**
[72] SIEVERT, ALLEN CAPRON, US
[72] NAPPA, MARIO JOSEPH, US
[72] MINOR, BARBARA HAVILAND, US
[72] LECK, THOMAS, J., US
[72] RAO, VELLIYUR NOTT MALLIKARJUNA, US
[72] SWEARINGEN, EKATERINA N., US
[72] SCHMITZ, CORNEILLE, BE
[72] MOULI, NANDINI, US
[72] PERTI, DEEPAK, US
[71] THE CHEMOURS COMPANY FC, LLC, US
[22] 2006-10-31
[41] 2007-05-10
[62] 3,044,769
[30] US (60/732,581) 2005-11-01
[30] US (11/486,791) 2006-07-13
[30] US (UNKNOWN) 2006-10-30

[21] **3,148,455**
[13] A1

[25] EN
[54] **SOLUBILIZATE WITH CURCUMIN AND OPTIONALLY AT LEAST ONE OTHER ACTIVE SUBSTANCE**
[54] **SOLUBILISAT CONTENANT DE LA CURCUMINE ET OPTIONNELLEMENT AU MOINS UNE AUTRE SUBSTANCE ACTIVE**
[72] BEHNAM, DARIUSH, DE
[71] AQUANOVA AG, DE
[22] 2018-07-11
[41] 2019-01-17
[62] 3,069,621
[30] DE (10 2017 115 496.5) 2017-07-11
[30] EP (PCT/EP2017/067381) 2017-07-11
[30] EP (PCT/EP2017/067382) 2017-07-11

[21] **3,148,459**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR EXTENDING PATH LENGTH OF A WAVE SIGNAL USING ANGLE MULTIPLEXING**
[54] **SYSTEME ET PROCEDE POUR ETENDRE LA LONGUEUR DE TRAJET D'UN SIGNAL D'ONDE A L'AIDE D'UN MULTIPLEXAGE D'ANGLE**
[72] MCMANAHON, PAUL FRANCIS, US
[72] DAMAGHI, DANIEL, US
[72] HARLEV, OHAD, US
[72] VEDADI-COMTE, ARMAND, US
[72] WILLNER, ALAN ELI, US
[72] PALANZO, CHARLES ROCCO, US
[72] HOWARD, RYAN JUSTIN, US
[71] LYTELOOP TECHNOLOGIES, LLC, US
[22] 2019-08-09
[41] 2020-02-13
[62] 3,095,203
[30] US (62/717,107) 2018-08-10

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,148,576**
[13] A1

[51] **Int.Cl. B62D 6/00 (2006.01) B62K 5/007 (2013.01) B62K 5/01 (2013.01) B62D 11/04 (2006.01) B62K 5/08 (2006.01)**

[25] EN
[54] **MOBILITY VEHICLE**
[54] **VEHICULE DE MOBILITE**
[72] DAVIES, ROBERT WILLIAM, US
[72] KUZMA, NICHOLAS, E., US
[72] ANTONISHAK, STEPHEN, US
[72] MULHERN, JAMES P., US
[72] LETUKAS, ANTHONY, US
[71] PRIDE MOBILITY PRODUCTS CORPORATION, US
[22] 2018-02-23
[41] 2018-08-30
[62] 3,054,160
[30] US (62/463,622) 2017-02-25
[30] US (62/526,489) 2017-06-29

[21] **3,148,616**
[13] A1

[51] **Int.Cl. B41F 17/22 (2006.01) G09F 3/00 (2006.01)**

[25] EN
[54] **METHOD AND APPARATUS FOR PRINTING ON AN OBJECT HAVING A CURVED SURFACE**
[54] **PROCEDE ET APPAREIL POUR IMPRIMER SUR UN OBJET AYANT UNE SURFACE INCURVEE**
[72] BUSE, DAVID, US
[72] MERTEN, MATTHIAS, US
[72] ROSATI, ROBERT, US
[72] SILBERT, ROLF, US
[72] TAMMER, OLEV, US
[71] GEN-PROBE INCORPORATED, US
[22] 2015-10-21
[41] 2016-04-28
[62] 3,047,441
[30] US (62/066,468) 2014-10-21

[21] **3,148,632**
[13] A1

[51] **Int.Cl. F16L 59/14 (2006.01)**

[25] EN
[54] **PIPE INSULATION ASSEMBLY**
[54] **ENSEMBLE D'ISOLATION DE TUYAU**
[72] PARKS, JERRY M., US
[72] MUSICK, DAVID E., US
[72] CHACKO, JACOB T., US
[72] CLANCY, TIMOTHY R., US
[72] HETTLER, NEIL, US
[72] QI, WEIGANG, US
[72] GUTKOSKI, MADELYN ELIZABETH, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[22] 2016-11-11
[41] 2017-05-18
[62] 3,005,203
[30] US (62/254,670) 2015-11-12
[30] US (62/268,027) 2015-12-16
[30] US (62/287,812) 2016-01-27

[21] **3,148,666**
[13] A1

[51] **Int.Cl. G08B 29/26 (2006.01) H04L 41/0806 (2022.01) G08B 13/00 (2006.01) G08B 29/24 (2006.01)**

[25] EN
[54] **SECURING PROPERTY**
[54] **SECURISATION DE BIENS**
[72] PODER, JIM, US
[72] COOK, MIKE, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2011-09-02
[41] 2012-03-15
[62] 2,751,731
[30] US (12/882,547) 2010-09-15

[21] **3,148,687**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/00 (2006.01)**

[25] EN
[54] **INDUCED HEPATOCYTES AND USES THEREOF**
[54] **HEPATOCYTES INDUITS ET UTILISATIONS ASSOCIEES**
[72] LEE, JAU-NAN, TW
[72] LEE, TONY TUNG-YIN, US
[72] LEE, YUTA, TW
[72] TSAI, EING-MEI, TW
[71] ACCELERATED BIOSCIENCES CORP., US
[22] 2015-11-25
[41] 2016-06-02
[62] 2,968,065
[30] US (62/085,185) 2014-11-26

[21] **3,148,688**
[13] A1

[25] EN
[54] **SMART-HOME HAZARD DETECTOR PROVIDING CONTEXT SPECIFIC FEATURES AND/OR PRE-ALARM CONFIGURATIONS**
[54] **DETECTEUR DE RISQUE POUR MAISON INTELLIGENTE, PERMETTANT D'OBTENIR DES CARACTERISTIQUES SPECIFIQUES A UN CONTEXTE ET/OU DES CONFIGURATIONS DE PRE-ALARME**
[72] SLOO, DAVID, US
[72] WEBB, NICK, US
[72] MATSUOKA, YOKY, US
[72] FADELL, ANTHONY M., US
[72] ROGERS, MATTHEW L., US
[72] PETERSON, KEVIN, US
[72] DIXON, MICHAEL, US
[71] GOOGLE LLC, US
[22] 2014-10-07
[41] 2015-04-16
[62] 2,926,811
[30] US (61/887,969) 2013-10-07
[30] US (61/887,963) 2013-10-07
[30] US (14/508,555) 2014-10-07
[30] US (14/508,536) 2014-10-07
[30] US (14/508,521) 2014-10-07
[30] US (14/508,502) 2014-10-07

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,148,689**
[13] A1

[51] **Int.Cl. B62D 25/02 (2006.01) B62D 25/00 (2006.01) F16S 1/12 (2006.01)**

[25] EN

[54] **COMPOSITE PANEL EDGE TREATMENTS AND JOINTS AND CARGO BODY HAVING SAME**

[54] **TRAITEMENT DE BORD DE PANNEAU COMPOSITE, ET JOINTS ET CORPS DE CARGO EN COMPORTANT**

[72] FENTON, GARRY L., US
[71] STI HOLDINGS, INC., US
[22] 2015-06-04
[41] 2015-12-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

[21] **3,148,692**
[13] A1

[25] EN

[54] **SMART-HOME HAZARD DETECTOR PROVIDING CONTEXT SPECIFIC FEATURES AND/OR PRE-ALARM CONFIGURATIONS**

[54]

[72] SLOO, DAVID, US
[72] WEBB, NICK, US
[72] MATSUOKA, YOKY, US
[72] FADELL, ANTHONY M., US
[72] ROGERS, MATTHEW L., US
[72] PETERSON, KEVIN, US
[72] DIXON, MICHAEL, US
[71] GOOGLE LLC, US
[22] 2014-10-07
[41] 2015-04-16
[62] 2,926,811
[30] US (61/887,969) 2013-10-07
[30] US (61/887,963) 2013-10-07
[30] US (14/508,555) 2014-10-07
[30] US (14/508,536) 2014-10-07
[30] US (14/508,521) 2014-10-07
[30] US (14/508,502) 2014-10-07

[21] **3,148,693**
[13] A1

[51] **Int.Cl. B62D 25/02 (2006.01) B62D 25/00 (2006.01) F16S 1/12 (2006.01)**

[25] EN

[54] **COMPOSITE PANEL EDGE TREATMENTS AND JOINTS AND CARGO BODY HAVING SAME**

[54]

[72] FENTON, GARY L., US
[71] STI HOLDINGS, INC., US
[22] 2015-06-04
[41] 2015-12-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

[21] **3,148,820**
[13] A1

[51] **Int.Cl. A23K 50/80 (2016.01) A23K 20/142 (2016.01) A23K 20/20 (2016.01) A23K 20/22 (2016.01) A23K 20/24 (2016.01) A01K 61/13 (2017.01)**

[25] EN

[54] **A FISH FEED AND METHOD FOR SMOLTIFICATION AND PREVENTION OF DESMOLTIFICATION IN SALMONIDAE, AND FOR PROPHYLAXIS AND TREATMENT OF HAEMORRHAGIC SMOLT SYNDROME (HSS) IN SALMONIDAE**

[54] **ALIMENT POUR POISSONS ET PROCEDE DE SMOLTIFICATION ET DE PREVENTION DE LA DESMOLTIFICATION CHEZ LES SALMONIDES, ET DE PROPHYLAXIE ET DE TRAITEMENT DU SYNDROME DU SMOLT HEMORRAGIQUE (SSH) CHEZ LES SALMONIDES**

[72] LYNGOY, ARTHUR, NO
[71] STIM AS, NO
[22] 2015-09-22
[41] 2016-03-31
[62] 2,958,777
[30] US (62/053,826) 2014-09-23

[21] **3,148,828**
[13] A1

[25] EN

[54] **THIRD-PARTY APPLICATION COMMUNICATION API**

[54] **API DE COMMUNICATION D'APPLICATION TIERCE**

[72] ABRAHAMI, YOAV, IL
[71] WIX.COM LTD, IL
[22] 2014-02-10
[41] 2014-08-14
[62] 2,899,872
[30] US (61/762,902) 2013-02-10

[21] **3,148,835**
[13] A1

[25] EN

[54] **A SYSTEM FOR PROVIDING AUTOMATIC INPUT AND INTERACTION BETWEEN A BROADCAST AUTOMATION SYSTEM AND A SYSTEM FOR GENERATING AUDIENCE INTERACTION WITH RADIO PROGRAMMING**

[54] **SYSTEME POUR FOURNIR UNE ENTREE ET UNE INTERACTION AUTOMATIQUES ENTRE UN SYSTEME D'AUTOMATISATION DE DIFFUSION ET UN SYSTEME DE PRODUCTION D'INTERACTION D'AUDIENCE AVEC UNE PROGRAMMATION RADIO**

[72] ANSTANDIG, DANIEL, US
[72] SEEDERS, BRIAN, US
[72] BOWMAN, CRAIG HELMUT, US
[71] FUTURI MEDIA, LLC, US
[22] 2012-05-23
[41] 2012-11-29
[62] 2,836,802
[30] US (61/519,505) 2011-05-24
[30] US (61/575,075) 2011-08-15
[30] US (13/409,764) 2012-03-01
[30] US (13/409,725) 2012-03-01

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,148,845**
[13] A1

[51] **Int.Cl. C08L 101/08 (2006.01) C08J 3/02 (2006.01) C08K 3/08 (2006.01) C08L 101/16 (2006.01) C09K 8/516 (2006.01) E21B 33/138 (2006.01)**

[25] EN

[54] **NANOGELS FOR DELAYED GELATION**

[54] **NANOGELS POUR GELIFICATION RETARDEE**

[72] GUAN, HUILI, US

[72] BERKLAND, CORY, US

[72] MORADI-ARAGHI, AHMAD, US

[72] LIANG, JENN-TAI, US

[72] CHRISTIAN, TERRY M., US

[72] NEEDHAM, RILEY B., US

[72] CHENG, MIN, US

[72] SCULLY, FAYE L., US

[72] HEDGES, JAMES H., US

[71] CONOCOPHILLIPS COMPANY, US

[71] UNIVERSITY OF KANSAS, US

[22] 2013-12-30

[41] 2014-07-24

[62] 3,069,079

[30] US (61/754,060) 2013-01-18

[21] **3,148,853**
[13] A1

[51] **Int.Cl. B64D 25/14 (2006.01) A62B 1/20 (2006.01)**

[25] EN

[54] **SOFT COVER RELEASE MECHANISM FOR EVACUATION SLIDES**

[54] **MECANISME DE DEGAGEMENT DE COUVERCLE SOUPLE DESTINE A DES TOBOGGANS D'EVACUATION**

[72] SCHMIDT, RYAN, US

[72] RITZEMA RAUTENBACH, HELPERUS, US

[71] GOODRICH CORPORATION, US

[22] 2016-01-28

[41] 2016-10-23

[62] 2,919,505

[30] US (14/694,769) 2015-04-23

[21] **3,148,859**
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61B 17/12 (2006.01) A61B 17/34 (2006.01) A61M 25/09 (2006.01)**

[25] EN

[54] **FENESTRATION DEVICES, SYSTEMS, AND METHODS**

[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE FENETRAGE**

[72] CULLY, EDWARD H., US

[72] ESKAROS, SHERIF A., US

[72] MOKELKE, ERIC A., US

[72] HOUGE, REED A., US

[71] W. L. GORE & ASSOCIATES, INC., US

[22] 2018-06-19

[41] 2018-12-27

[62] 3,061,624

[30] US (62/521,724) 2017-06-19

[30] US (16/011,279) 2018-06-18

[21] **3,148,863**
[13] A1

[51] **Int.Cl. A61M 5/34 (2006.01) A61M 5/20 (2006.01) A61M 5/32 (2006.01)**

[25] EN

[54] **PEN NEEDLE ATTACHMENT MECHANISMS**

[54] **MECANISMES DE FIXATION D'AIGUILLE DE STYLO**

[72] SRINIVASAN, SUDARSAN, US

[72] DIBIASI, MICHAEL, US

[72] SULLIVAN, SEAN, US

[72] KNAPP, KEITH, US

[72] HERR, JOSHUA, US

[72] LIMAYE, AMIT, US

[72] HUANG, DAVID, US

[72] SCHIFF, DAVID, US

[72] SACK, TODD, US

[71] BECTON, DICKINSON AND COMPANY, US

[22] 2014-12-04

[41] 2015-06-11

[62] 2,931,326

[30] US (61/911,716) 2013-12-04

[30] US (61/931,085) 2014-01-24

[21] **3,148,896**
[13] A1

[25] EN

[54] **HYDROLYSIS OF BIOMASS-CONTAINING FEEDSTOCKS**

[54]

[72] FELIX, LARRY G., US

[72] LINCK, MARTIN B., US

[72] MARKER, TERRY L., US

[72] ROBERTS, MICHAEL J., US

[71] GAS TECHNOLOGY INSTITUTE, US

[22] 2015-06-29

[41] 2016-01-07

[62] 3,095,387

[30] US (14/321,147) 2014-07-01

[21] **3,148,897**
[13] A1

[25] EN

[54] **END EFFECTOR AND END EFFECTOR DRIVE APPARATUS**

[54] **EFFECTEUR TERMINAL ET APPAREIL D'ENTRAINEMENT D'EFFECTEUR TERMINAL**

[72] KIM, DANIEL H., US

[72] SHIN, DONG SUK, US

[72] JANG, TAEHO, US

[72] PARK, YONGMAN, US

[72] LEE, JEIHAN, US

[72] KIM, HONGMIN, US

[72] NAM, KIHOO, US

[72] HAN, SEOKYUNG, US

[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US

[71] COLUBRISM, INC, US

[22] 2018-12-20

[41] 2019-07-04

[62] 3,091,728

[30] US (62/612,220) 2017-12-29

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[21] **3,148,902**
[13] A1

[51] **Int.Cl. C12P 13/04 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**

[25] EN
[54] **METHODS FOR THE PURIFICATION OF L-GLUFOSINATE**

[54]
[72] FIELDS, STEPHEN CRAIG, US
[72] OBERHOLZER, MATTHEW RICHARD, US
[72] GREEN, BRIAN MICHAEL, US
[72] KULKARNI, SAMIR, US
[72] NELSON, JENNIFER, US
[72] ANDRES, PATRICIA, US
[71] BASF SE, DE
[22] 2018-07-17
[41] 2019-01-24
[62] 3,070,104
[30] US (62/533,944) 2017-07-18
[30] US (62/653,736) 2018-04-06

[21] **3,148,909**
[13] A1

[51] **Int.Cl. F04D 29/02 (2006.01) A61M 60/135 (2021.01) A61M 60/216 (2021.01) A61M 60/808 (2021.01) F04D 29/24 (2006.01)**

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[54] **FLUID PUMP WITH A ROTOR**
[54] **POMPE A FLUIDE AVEC UN ROTOR**

[72] SCHECKEL, MARIO, DE
[71] ECP ENTWICKLUNGSGESELLSCHAFT MBH, DE
[22] 2009-12-04
[41] 2010-06-10
[62] 2,745,528
[30] US (61/120,095) 2008-12-05
[30] EP (08075923.6) 2008-12-05

[21] **3,148,911**
[13] A1

[25] EN
[54] **PROPPANT COMPOSITION COMPRISING A CHEMICAL TRACER AND USE THEREOF FOR HYDRAULIC FRACTURING**

[54] **COMPOSITION D'AGENT DE SOUTÈNEMENT COMPORTANT UN TRACEUR CHIMIQUE ET UTILISATION CONNEXE POUR LA FRACTURATION HYDRAULIQUE**

[72] CADY, DANIEL, US
[72] CANNAN, CHAD, US
[72] CONNER, MARK, US
[72] DUENCKEL, ROBERT, US
[72] LEASURE, JOSHUA, US
[72] LIENG, THU, US
[72] READ, PETER A., GB
[72] ROPER, TODD, US
[71] CARBO CERAMICS INC., US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,904,153
[30] US (61/787,724) 2013-03-15
[30] US (61/803,652) 2013-03-20
[30] US (61/883,788) 2013-09-27
[30] US (61/885,334) 2013-10-01
[30] US (61/914,441) 2013-12-11
[30] US (61/929,761) 2014-01-21

[21] **3,149,016**
[13] A1

[25] EN
[54] **MOTOR CONTROL DEVICE**
[54] **DISPOSITIF DE COMMANDE DE MOTEUR**

[72] MOORTHY, DINESH SUNDARA, US
[72] STEINER, JAMES, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[22] 2018-06-08
[41] 2018-12-13
[62] 3,066,765
[30] US (62/517,478) 2017-06-09

[21] **3,149,018**
[13] A1

[25] EN
[54] **ENGINEERED MICROBE-TARGETING MOLECULES AND USES THEREOF**

[54] **MOLECULES MANIPULEES CIBLANT UN MICROBE ET LEURS UTILISATIONS**

[72] BERTHET, JULIA B., US
[72] CARTWRIGHT, MARK J., US
[72] INGBER, DONALD E., US
[72] ROTTMAN, MARTIN M., US
[72] SUPER, DINAH R., US
[72] SUPER, MICHAEL, US
[72] WATTERS, ALEXANDER, US
[72] WAY, JEFFREY CHARLES, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[22] 2012-07-18
[41] 2013-01-24
[62] 2,842,321
[30] US (61/508,957) 2011-07-18
[30] US (61/605,081) 2012-02-29
[30] US (61/605,052) 2012-02-29

[21] **3,149,036**
[13] A1

[25] EN
[54] **VEHICULAR NOTIFICATION DEVICE**

[54] **DISPOSITIF DE NOTIFICATION POUR VEHICULE**

[72] ETORI, NARIAKI, JP
[72] MORIMOTO, AKIRA, JP
[72] SHINO, TATSUYA, JP
[72] TAKAE, YASUHIKO, JP
[72] YANO, TAKAHIRO, JP
[71] NISSAN MOTOR CO., LTD., JP
[22] 2015-10-22
[41] 2017-04-27
[62] 3,002,629

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,149,045**
[13] A1

[51] **Int.Cl. E04D 13/076 (2006.01)**
[25] EN
[54] **SELF-SUPPORTING BI-DIRECTIONAL CORRUGATED MESH LEAF PRECLUSION DEVICE**
[54] **DISPOSITIF DE PRECLUSION DE FEUILLE A MAILLAGE ONDULE BIDIRECTIONNEL AUTOPORTANT**
[72] LENNEY, ROBERT C., US
[71] GUTTERGLOVE, INC., US
[22] 2015-02-12
[41] 2015-08-20
[62] 2,939,381
[30] US (61/939,005) 2014-02-12
[30] US (14/620,729) 2015-02-12

[21] **3,149,053**
[13] A1

[25] EN
[54] **METHODS FOR INCREASING ORAL OSTEOGENESIS USING LIPOXIN A4 (LXA4) AND ITS ANALOGS**
[54] **METHODES PERMETTANT D'AUGMENTER L'OSTEOGENESE DE LA CAVITE BUCCALE AU MOYEN DE LA LIPOXINE A4 (LXA4) ET DE SES ANALOGUES**
[72] VAN DYKE, THOMAS E., US
[72] HASTURK, HATICE, US
[72] KANTARCI, ALPDOGAN, US
[71] FORSYTH DENTAL INFIRMARY FOR CHILDREN, US
[22] 2013-03-15
[41] 2014-08-28
[62] 2,901,979
[30] US (61/767,298) 2013-02-21

[21] **3,149,071**
[13] A1

[51] **Int.Cl. B62D 25/02 (2006.01) B32B 3/06 (2006.01) B62D 25/00 (2006.01) F16S 1/12 (2006.01)**
[25] EN
[54] **COMPOSITE PANEL EDGE TREATMENTS AND JOINTS AND CARGO BODY HAVING SAME**
[54]
[72] FENTON, GARY L., US
[71] STI HOLDINGS, INC., US
[22] 2015-06-04
[41] 2015-12-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

[21] **3,149,150**
[13] A1

[51] **Int.Cl. A61M 60/191 (2021.01) A61M 60/40 (2021.01) A61M 60/861 (2021.01) A61M 60/873 (2021.01) A61H 31/00 (2006.01) A61B 17/68 (2006.01)**
[25] EN
[54] **HEART HELP DEVICE, SYSTEM, AND METHOD**
[54]
[72] FORSELL, PETER, CH
[71] MEDICALTREE PATENT LTD., MT
[22] 2009-10-12
[41] 2010-04-15
[62] 3,074,396
[30] SE (0802157-8) 2008-10-10
[30] SE (0802141-2) 2008-10-10
[30] SE (0802140-4) 2008-10-10
[30] SE (0802139-6) 2008-10-10
[30] SE (0802144-6) 2008-10-10
[30] SE (0802142-0) 2008-10-10
[30] SE (0802150-3) 2008-10-10
[30] SE (0802146-1) 2008-10-10
[30] SE (0802143-8) 2008-10-10
[30] US (61/202,380) 2009-02-24
[30] US (61/202,383) 2009-02-24
[30] US (61/202,382) 2009-02-24
[30] US (61/202,405) 2009-02-25
[30] US (61/202,406) 2009-02-25
[30] US (61/202,407) 2009-02-25
[30] US (61/202,404) 2009-02-25
[30] US (61/202,393) 2009-02-25
[30] US (61/213,157) 2009-05-12
[30] US (61/213,155) 2009-05-12
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[21] **3,149,183**
[13] A1

[51] **Int.Cl. A47L 1/15 (2006.01) A47L 25/00 (2006.01)**
[25] EN
[54] **WHITE CARBON BLACK FORMULATIONS AND METHODS**
[54] **FORMULATIONS DE NOIR DE CARBONE BLANC ET PROCEDE**
[72] DARROW, RICHARD, US
[71] DARROW, RICHARD, US
[22] 2013-09-17
[41] 2014-03-20
[62] 2,885,210
[30] US (61/701,894) 2012-09-17

[21] **3,149,190**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD FOR MEASURING GRAIN CART WEIGHT**
[54] **SYSTEME ET METHODE DE MESURE DU POIDS D'UN CHARIOT DE GRAINS**
[72] MEIER, IAN ROBERT, CA
[72] LOCKERBIE, MICHAEL DAVID, CA
[71] BISTRATA SYSTEMS INC., CA
[22] 2018-04-25
[41] 2018-08-07
[62] 3,087,371

[21] **3,149,649**
[13] A1

[51] **Int.Cl. B08B 9/093 (2006.01) B08B 9/28 (2006.01) B67C 9/00 (2006.01)**
[25] EN
[54] **DRAINING AND RINSING CONTAINERS**
[54] **CONTENANT D'EGOUTTEMENT ET DE RINCAGE**
[72] LUCHIA, KURT, CA
[72] MILLER, GERRY, CA
[72] BEDARD, GEOFF, CA
[71] BOURGAULT INDUSTRIES LTD., CA
[22] 2016-12-06
[41] 2018-06-06
[62] 2,950,536

[21] **3,149,722**
[13] A1

[51] **Int.Cl. E04F 11/18 (2006.01) F16B 9/00 (2006.01)**
[25] EN
[54] **BRACKET SYSTEM AND METHOD FOR INSTALLATION OF HORIZONTAL BALUSTERS**
[54]
[72] LEARY, STEVEN J., US
[71] VINYLAST, INC., US
[22] 2020-06-18
[41] 2020-12-19
[62] 3,083,903
[30] US (16/445,527) 2019-06-19

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,150,073**

[13] A1

[25] EN

[54] **NEW NUCLEOPHILE-REACTIVE
SULFONATED COMPOUNDS FOR
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(BIO)MOLECULES; PRECURSORS
AND CONJUGATES THEREOF**

[54] **NOUVEAUX COMPOSES
SULFONES REACTIFS AVEC DES
NUCLEOPHILES POUR LE
(RADIO)MARQUAGE DE
(BIO)MOLECULES ;
PRECURSEURS ET CONJUGUES
CORRESPONDANTS**

[72] PRIEM, THOMAS, FR

[72] BOUTEILLER, CEDRIC, FR

[72] CAMPORESE, DAVIDE, FR

[72] ROMIEU, ANTHONY, FR

[72] RENARD, PIERRE-YVES, FR

[71] **ADVANCED ACCELERATOR
APPLICATIONS, FR**

[22] 2013-11-22

[41] 2014-05-30

[62] 2,891,880

[30] EP (12194287.4) 2012-11-26

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BENKOVIC, STEPHEN	2,981,773	JOSEE	2,935,077	CARMIGNANI, MASSIMO	2,932,491
BERG LLC	2,832,324	BOUTEILLER, CEDRIC	2,891,880	CARNEVALI, GIUSEPPE	2,933,304
BERGE, MICHAEL R.	2,888,012	BOUYER, CYRIL	3,009,546	CARPELS, DIRK EMIEL E	3,018,657
BERGSTROM, DANIEL	3,067,710	BOWEN, BRIAN	2,938,662	CASALE SA	2,954,050
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BETANCOURT, JOSE		BRADLEY, MARK	3,053,521	CATTRON NORTH AMERICA,	
ENRIQUE	3,009,335	BRAMA, MARWAN	2,996,358	INC.	3,068,032
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BHANGE, SIDDHESHWAR		BRINKMEYER, ERNST	3,057,397	NANOTECNOLOGIA E	
NAVANATH	2,933,168	BRODA, MACIEJ	2,990,364	MATERIAIS TECNICOS,	
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BILBAO, OLATZ	2,941,898	BROWN, LEE	3,086,104	RECHERCHE	
BILGIN, BERKER	2,836,309	BROWN, VINCENT	3,086,104	SCIENTIFIQUE (C.N.R.S.)	2,933,717
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BIOMADISON, INC.	2,928,609	BRUNNER, THOMAS	2,940,877	CHAN, KEEN IAN	3,070,356
BIOMARIN		BRUNNER, YARON	3,075,155	CHAN, WAI KIT	3,131,911
PHARMACEUTICAL INC.	2,927,798	BRUTON, CONNON	3,024,445	CHANG, THERESA	3,061,517
BIOMERICA, INC.	2,967,817	BRYLA, MARK	2,964,127	CHARYCH, DEBORAH H.	2,816,722
BIOSENSE WEBSTER		BUBER, M. TEKAMUL	3,074,115	CHEICH, ROBERT C.	3,057,823
(ISRAEL) LTD.	2,864,922	BUCHBERGER, HELMUT	3,063,305	CHEINET, ANTOINE	3,064,988
BIOSURGICAL S.L.	3,077,244	BUCKS, BRENT	2,928,676	CHEMSPEED TECHNOLOGIES	
BIRKER, CHRIS	3,124,208	BUIJS, CORNELIS	2,922,624	AG	2,967,075
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BITTERWOLF, KLAUS	2,940,877	INVESTMENT		CHEN, HONGYAN	3,070,525
BJORNSSON, ERICA S.	3,046,481	CORPORATION	2,840,833	CHEN, JUANJUAN	3,110,732
BL TECHNOLOGIES, INC.	2,886,470	BURKHOLZ, JONATHAN		CHEN, LI-CHENG	3,095,794
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		DESMET, CLOE	2,984,581	EMMEL, UTE	2,861,036
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		DEUTERIA BIOMATERIALS, LLC	2,931,726	ENDO, KOJI	3,076,178
		DEWITT, ROBERT R.	3,010,629	ENEDYM INC.	2,836,309
		DEY, SUBHRAJIT	2,881,255	ENGENIUM CHEMICALS CORP.	2,847,947
		DHAR, SANDEEP	2,881,255	ENNS, JOHN	2,958,277
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HALL, TIMOTHY J.	3,065,597	HENKER, TERRANCE M.	2,940,316	HUBBELL INCORPORATED	2,853,456
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HALLIBURTON ENERGY SERVICES, INC.	3,065,106	HEPTARES THERAPEUTICS LIMITED	2,938,169	HUCULAK, JOHN C.	3,078,099
HALLIBURTON ENERGY SERVICES, INC.	3,065,937	HERMANS, HANS MARIA KAREL	3,018,657	HUGHES, MICHAEL FRANKLIN	2,940,171
HALLIBURTON ENERGY SERVICES, INC.	3,070,647	HERVIEUX, MARC-ANDRE HETHERINGTON, MARK ANDREW	2,920,061	HUGO VOGELSANG MASCHINENBAU GMBH	2,891,050
HALLIBURTON ENERGY SERVICES, INC.	3,073,000	HETZRONI, OREN	3,075,155	HUMPHREYS, DAVID	2,882,641
HAMMOND, CHARLES E.	2,892,863	HIERNAUX, PIERRE	3,086,104	HUNT, NATHANAEL ANDREW	2,868,157
HANNINEN, ANNA-LIISA	2,861,697	HIGH VOLTAGE PARTIAL DISCHARGE LIMITED	2,981,407	HUNTER DOUGLAS INC.	2,880,640
HANNING & KAHL GMBH & CO. KG	3,075,593	HILDEBRAND, DAGMAR	3,080,063	HUPP, CHRISTOPHER D.	2,848,023
HANSEN, EDWIN MATHEUS JOZEF	2,946,661	HILL, BRADFORD	3,046,481	HURD, PHILLIP W.	2,921,917
HANTASH, BASIL M.	2,999,547	HILL, FERGAL	2,893,120	HUUSKONEN, ANNE	2,861,697
HANUMARA, POORNIMA	2,924,868	HINES, JOHN B.	2,921,917	HYDRO-QUEBEC	3,115,353
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HARRINGTON, CHARLES ROBERT	3,027,974	HIYOSHI, RYOSUKE	3,003,700	IBENTRUS, INC.	3,029,752
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SWINYARD, DOUGLAS		THE PENN STATE RESEARCH		GMBH	2,934,680
CRAIG	2,904,238	FOUNDATION	2,981,773	TYCO FIRE PRODUCTS LP	2,934,680
SWISSTO12 SA	3,115,092	THE PROCTER & GAMBLE		U.S. MERCHANTS FINANCIAL	
SWORSKI, ADAM E.	2,930,318	COMPANY	3,009,335	GROUP, INC.	3,031,637
SYNCHREURON, INC.	2,914,365	THE PROCTER & GAMBLE		UBER TECHNOLOGIES, INC.	3,036,928
SZEKELY, KENNETH EUGENE	3,087,541	COMPANY	3,025,530	UBUKATA, MAKOTO	3,071,980
SZKLAR, OLEH	3,068,032	THE PROCTER & GAMBLE		UHLE, FLORIAN	3,080,063
TAEB, AIDIN	2,893,354	COMPANY	3,041,104	UMANA, PABLO	2,891,493
TAISHAN FIBERGLASS INC.	3,065,070	THE PROCTER & GAMBLE		UNITED CONSTRUCTION	
TAKAHASHI, HIROKI	2,855,920	COMPANY	3,051,878	PRODUCTS, LLC	3,056,507
TAKAHASHI, TAKUYA	2,855,920	THE ROYAL MINT LIMITED	2,928,425	UNIVERSIDADE DO MINHO	3,066,984
TAKEUCHI, MANABU	3,037,654	THE UNITED STATES OF		UNIVERSITAET HEIDELBERG	3,080,063
TAKEUCHI, MANABU	3,048,772	AMERICA, AS		UNIVERSITE DE BORDEAUX	2,933,717
TAM, CZE-CHAO	3,131,911	REPRESENTED BY THE		UNIVERSITEIT GENT	2,914,242
TAM, CZE-CHAO	3,138,363	SECRETARY,		UNIVERSITY OF GEORGIA	
TAMKO BUILDING		DEPARTMENT OF		RESEARCH	
PRODUCTS LLC	2,882,641	HEALTH & HUMAN		FOUNDATION, INC.	2,927,848
TAMURA, GO	2,916,450	SERVICES	2,942,968	UNIVERSITY OF HAWAII	2,938,971
TAN, MIN-HAN	2,975,726	THE UNITED STATES OF		UNIVERSITY OF	
TAN, XUEFEI	2,903,180	AMERICA, AS		MASSACHUSETTS	
TANAKA, YOSHIKI	3,003,700	REPRESENTED BY THE		MEDICAL SCHOOL	2,940,955
TANG, ANQING	3,100,885	SECRETARY,		UNNERSTALL, ROBERT H.,	
TANG, HAI	3,064,965	DEPARTMENT OF		JR.	2,879,043
TANG, HAI	3,070,888	HEALTH AND HUMAN		UNNI, SREEKUTTAN	
TANG, LEI	2,940,111	SERVICES	2,938,971	MARAVEEDU	2,933,168
TANG, LONGGUI	2,933,477	THECKES, BENOIT	3,009,546	UPM-KYMMENE	
TANG, ZHIYAO	3,065,070	THERMO FISHER SCIENTIFIC		CORPORATION	2,908,852
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TAYLOR, CURTIS	2,879,043	THIELEN, KLAUS	3,008,237	URSCHEL LABORATORIES,	
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TEHAN, BENJAMIN GERALD	2,938,169	THIND, AMANDEEP	3,085,777	US WELL SERVICES LLC	2,928,707
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ALEXANDRE MANUEL	3,066,984	LEE	3,061,517	FRANCE	3,062,608
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10353744 CANADA LTD.	3,129,306	BEAUSEJOUR, LOUIS-		CLEMENT, FRANCIS	3,129,003
10353744 CANADA LTD.	3,129,517	MARTIN	3,092,185	CLEVER, BRYAN WILLIAM	3,128,638
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10353744 CANADA LTD.	3,129,985	BEN SALAH, IHSEN	3,091,549	COMMUNICATIONS, LLC	3,129,244
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FERNANDO	3,092,975	HUCK, KENNETH W.	3,129,561	KOPECKY, TREVOE ALAN	3,120,513
FERRON, FRANCESCO	3,126,994	HUGHES NETWORK		KORDEK, BRIAN	3,129,597
FRANK, FRENZEL	3,124,337	SYSTEMS, LLC	3,128,906	KULBER, DAVID	3,129,232
FREI, ROGER	3,124,337	HUGHETT, STEPHEN A.	3,129,388	KUMAR, RAJEEV	3,091,271
FRIED, SHAWN JORDAN	3,099,641	HURLBURT, IVAN	3,128,884	KUMAR, RAKESH	3,091,271
FROHBERG, ERIK KARL	3,128,909	HUSS, PHILIP	3,128,792	KUNSHAN YIJIAJU TEXTILE	
FUJI ELECTRIC CO., LTD.	3,122,978	ILLINOIS TOOL WORKS INC.	3,128,893	CO., LTD.	3,100,151
FUSUS, LLC	3,105,738	ILLINOIS TOOL WORKS INC.	3,129,179	KUZNETSOV, LEV	3,128,076
GAO, YONG	3,129,985	IMAMORI, SATOSHI	3,122,978	KYYHKYNNEN, JANI PETTERI	3,128,990
GAPLAST GMBH	3,129,191	INNOVATOOLS INC.	3,091,631	LAAROUSSI, MOHAMED	3,091,549
GASTINEAU, JERRY	3,128,207	ISSA, MARIAM	3,129,211	LAM, CHAI	3,128,218
GAUGHAN, EDWARD W.	3,128,815	ITANEN, NIKLAS	3,119,285	LANGVIK, MIKKO	3,128,990
GEORGE, SAJIN	3,127,790	ITRON, INC.	3,122,957	LARSON, KASEY	3,102,550
GHORBANI, SIAVASH	3,119,285	IVOCLAR VIVADENT AG	3,124,337	LASKAR, WILLIAM JOSEPH	3,129,445
GHORBANI, SIAVASH	3,121,059	J.J. MACKAY CANADA		LASKAR, WILLIAM JOSEPH	3,129,449
GIBRALTAR GLOBAL, LLC	3,126,807	LIMITED	3,118,113	LASKAR, WILLIAM JOSEPH	3,129,456
GIOVANNONE, KATHERINE	3,091,561	JAIN, NAVDEEP	3,129,249	LASKAR, WILLIAM JOSEPH	3,129,465
GOLDMAN, RUSSELL	3,128,218	JENKINS, J. LUKE	3,129,363	LASKAR, WILLIAM JOSEPH	3,129,468
GONCALVES, KELLY	3,128,218	JENKINS, J. LUKE	3,129,388	LASKAR, WILLIAM JOSEPH	3,129,481
GOOGLE LLC	3,128,988	JIANG, CHAO	3,129,306	LASKAR, WILLIAM JOSEPH	3,129,485
GRAUS, JONATHON P.	3,129,107	JIANG, XUXI	3,129,985	LASKAR, WILLIAM JOSEPH	3,129,489
GRITTER, JOEL AIDAN	3,128,291	JIN, BO	3,129,182	LASKAR, WILLIAM JOSEPH	3,129,497
GUAN, DEREK	3,091,620	JINAN ZHISHU		LASKAR, WILLIAM JOSEPH	3,129,503
GUO, JINZHI	3,129,517	INFORMATION AND		LAU, DAVID	3,128,533
GUO, JINZHI	3,129,802	TECHNOLOGY CO., LTD.	3,129,792	LAVOIE, ALAIN	3,129,292
GUO, TINGTING	3,129,150	JOBO INVESTMENTS INC.	3,129,571	LAWTON, CHRISTOPHER	3,128,650
HABIB, IMRAN	3,128,291	JOINTJOCKEY LLC	3,129,552	LEAR GLOBAL MUNITIONS	
HAGEN, BRIAN	3,126,559	JORDAN, ROBERT B., IV	3,128,884	LTD.	3,129,441
HAGUE, JENNA	3,128,291	JOY GLOBAL		LEE, CHENG-CHENG	3,125,867
HALIBURTON ENERGY		UNDERGROUND MINING		LEE, NATHAN J.	3,128,650
SERVICES, INC.	3,120,513	LLC	3,129,777	LEISURE TIME PRODUCTS,	
HALLIBURTON ENERGY		JUPP, SIMEON	3,129,124	LLC	3,129,006
SERVICES, INC.	3,096,628	KADNIKOV, ALEKSEJ	3,129,759	LEMES DA SILVA, CRISTIANO	3,129,445
HAN, LIN	3,129,792	KAFKA, GABOR	3,122,971	LEMES DA SILVA, CRISTIANO	3,129,449
HANLON, TERESA ANN	3,091,622	KAPAHI, SIDHANT	3,128,218	LEMES DA SILVA, CRISTIANO	3,129,456
HANSON, CARRIE ANNE	3,117,290	KAPOSI, SASCHA	3,129,813	LEMES DA SILVA, CRISTIANO	3,129,465

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LEMES DA SILVA, CRISTIANO	3,129,485	MACLEAN, GREG	3,128,207	MORISSETTE, GUY	3,129,003
LEMES DA SILVA, CRISTIANO	3,129,489	MAINS, RONALD H., JR	3,129,513	MOUGHLER, JOHN	3,128,792
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LENNOX INDUSTRIES INC.	3,129,142	MAO, ZONGWEI	3,129,306	MUSTAFA, LAIBA	3,128,076
LES ENTREPRISES SMARTLUX INC.	3,091,940	MARGALOT, ZVI	3,092,226	MUTHUSAMY, SARAVANAN	3,129,803
LEU, WEI-MING	3,125,867	MARINE THINKING INC	3,091,652	NABULSI, ADEL AL	3,129,987
LEUM ENGINEERING, INC. D/B/A DOCKZILLA CO.	3,115,638	MARINE THINKING INC	3,129,147	NAJAFOV, JEYHUN	3,113,269
LEUM, GRANT	3,115,638	MARINE THINKING INC	3,129,490	NATIONAL CHUNG HSING UNIVERSITY	3,125,867
LEUNG, KIN KWAN	3,095,517	MARINE THINKING INC	3,129,496	NAZARZADEH OGHAZ, AMIN	3,129,132
LI, DONG	3,129,985	MARINE THINKING INC.	3,091,252	NELSON III, KIRBY K.	3,122,957
LI, GUICHEN	3,129,986	MARINE THINKING INC.	3,091,337	NELSON, JOSEPH	3,128,920
LI, HONG	3,129,244	MARINE THINKING INC.	3,091,649	NEUSCH, WILLIAM	3,126,807
LI, YUGUANG	3,126,673	MARINE THINKING INC.	3,128,247	NEW YORK SOCIETY FOR THE RUPTURED AND CRIPPLED MAINTAINING THE HOSPITAL FOR SPECIAL SURGERY	3,093,816
LI, YUJIE	3,126,673	MARINE THINKING INC.	3,099,641	NEWPORT, CASEY L.	3,120,513
LILJENDALS BRUK AB	3,128,990	MARKOGLU, NEKTARIA	3,124,337	NICOLOSI, CLAUDIO	3,097,985
LIN, YING-TONG	3,125,867	MARKUS, GEIER	3,124,337	NIEMELA, CAL G.	3,129,773
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LING, YONG	3,129,985	MARSHALL, GREGORY CHARLES	3,129,449	NIHAS, GUDURU SAI	3,121,056
LIPPITT, SARAH	3,129,211	MARSHALL, GREGORY CHARLES	3,129,465	NINGEGOWDA, KEERTHI	3,129,304
LIU, CHUHANG	3,129,304	MARSHALL, GREGORY CHARLES	3,129,468	NISHIJIMA, RICK T.	3,129,124
LIU, FRANK	3,129,304	MARSHALL, GREGORY CHARLES	3,129,489	NORMAN, MARCUS JEFFERY	3,128,750
LIU, QIAOWEI	3,091,252	MARSHALL, GREGORY CHARLES	3,129,497	NORTON, ALAN	3,123,400
LIU, QIAOWEI	3,091,649	MARSHALL, GREGORY CHARLES	3,129,497	NUNHEMS B.V.	3,091,666
LIU, QIAOWEI	3,128,247	MARTIN SACRISTAN, JUAN	3,129,987	NUNHEMS B.V.	3,091,704
LIU, QIAOWEI	3,129,490	MASAR, DAVID	3,098,713	NUNHEMS B.V.	3,091,851
LIU, QIAOWEI	3,129,496	MASHAYEKHI, MORTEZA	3,129,304	NUNHEMS B.V.	3,091,855
LIU, SHENGYI	3,129,214	MASSA, GABRIEL J.	3,123,400	O'NEIL, ADRIAN IGNATIUS	3,118,113
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LIU, SHIWEI	3,091,649	MCISAAC, HANNAH	3,128,218	OPW FUELING COMPONENTS, LLC	3,128,638
LIU, SHIWEI	3,091,652	MCKAY, TALBY	3,129,441	ORBAN, BENOIT	3,099,641
LIU, SHIWEI	3,128,247	MCKISIC, AUBRA D.	3,129,561	ORTIZ, EDISON U.	3,129,987
LIU, SHIWEI	3,129,147	MCNABB, WILLIAM M.	3,129,388	OSHKOSH CORPORATION	3,128,920
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LIU, SHIWEI	3,129,496	MEASUREMENT SPECIALTIES, INC.	3,129,761	OVH	3,129,001
LIU, THOMAS	3,128,076	MEDICOM GROUP INC.	3,099,641	PAIK, BENJAMIN	3,129,211
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LIVELY, KYLE JAY	3,129,449	MENDOZA, MARTIN	3,129,304	PANOSIAN, MICHAEL	3,126,586
LIVELY, KYLE JAY	3,129,456	MENG, MENGHSIAO	3,125,867	PARE, RICHARD	3,099,641
LIVELY, KYLE JAY	3,129,465	MENZEL, JOHANNES	3,126,850	PARUCHURI, ANWITHA	3,129,102
LIVELY, KYLE JAY	3,129,468	MERCHANT, SAHIL N.	3,105,738	PARYAB, NEDA	3,128,218
LIVELY, KYLE JAY	3,129,481	MESAN, IZUDIN	3,128,662	PASTORE, VINCENT	3,125,823
LIVELY, KYLE JAY	3,129,485	MIAO, SHIXIANG	3,130,001	PATEL, RAKESH THAKOR	3,123,547
LIVELY, KYLE JAY	3,129,489	MIDE, CHRISTIAN	3,102,141	PATRICK, ROBERT ANDREW	3,129,363
LIVELY, KYLE JAY	3,129,497	MILBANK MANUFACTURING CO.	3,126,559	PEITZ, STEPHAN	3,129,505
LIVELY, KYLE JAY	3,129,503	MILIZIANO, CHARLOTTE	3,128,698	PIONEER HI-BRED INTERNATIONAL, INC.	3,129,445
LO, BRIAN	3,099,641	MILLER, KEITH EDWIN	3,129,909		
LOMBARDIA, ESTEBAN	3,129,607	MILTON, ARUN JOHN	3,129,987		
LONG, MARC	3,129,232	MIN, RUI	3,129,249		
LU, FRED	3,091,337	MITCHELL INTERNATIONAL, INC.	3,128,207		
LU, FRED	3,091,652	MITCHELL, MICHAEL	3,128,988		
LU, FRED	3,129,147	MOISTMASTER OY	3,129,344		
LU, FRED	3,129,490				
LU, JUNLONG	3,129,802				
LUDVIG, JASON RANDALL	3,099,641				
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PIONEER HI-BRED INTERNATIONAL, INC.	3,129,456	ROVETTO, ADRIAN JESUS	3,129,607	SPRINGER, ZACHARY	3,129,781
PIONEER HI-BRED INTERNATIONAL, INC.	3,129,465	ROYAL BANK OF CANADA	3,128,076	SPRINGER, ZACHARY	3,129,785
PIONEER HI-BRED INTERNATIONAL, INC.	3,129,468	ROYAL BANK OF CANADA	3,128,218	SRIDHAR, SRIVIDHYA	3,096,628
PIONEER HI-BRED INTERNATIONAL, INC.	3,129,481	ROYAL BANK OF CANADA	3,128,291	SRIKUMAR, ARJUN	3,091,234
PIONEER HI-BRED INTERNATIONAL, INC.	3,129,485	ROYAL BANK OF CANADA	3,129,245	STANTON, RICHARD	3,128,291
PIONEER HI-BRED INTERNATIONAL, INC.	3,129,489	ROYAL BANK OF CANADA	3,129,304	STEVENSON, KELVIN JOHN	3,129,997
PIONEER HI-BRED INTERNATIONAL, INC.	3,129,497	ROYAL BANK OF CANADA	3,129,987	STEWART, RYAN	3,129,777
PITZER, JARED	3,129,195	SANCHEZ, IVAN	3,119,285	STINCHCOMB, JOSEPH	3,092,010
PLAY'N GO MARKS LTD	3,128,698	SATRIA, MARJOHAN	3,125,376	STOCHNIOL, GUIDO	3,129,505
POIRIER, GABRIELLE	3,099,641	SATTARI, HAMIDREZA	3,129,245	SUEPPMAYER, ANTON	3,121,674
POIRIER, MARC	3,092,397	SCHAALJE, JOHN D.	3,129,363	SUGI SPORTS INC.	3,092,173
POLARIS INDUSTRIES INC.	3,129,107	SCHELLER, HENRY	3,125,823	SUGI SPORTS INC.	3,092,185
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POOVAPPA, VINAYAKA	3,129,803	SCHMIDT, ROY	3,129,567	SUN, YANG	3,129,150
POPOVICH, MICHAEL S.	3,129,179	SCHNEIDER ELECTRIC USA, INC.	3,126,850	SUNCOR ENERGY INC.	3,091,366
POTTER, WILLIAM JOHN	3,128,815	SCHNEIDER, MICHAEL	3,119,285	SUSANA, RANDY	3,128,207
POUTANEN, TOMI JOHAN	3,095,517	SCHON, JIMMY GIDO	3,102,141	TAIWAN FU HSING INDUSTRIAL CO., LTD.	3,128,623
PRATT & WHITNEY CANADA CORP.	3,122,971	SCOTT, ALAN	3,127,349	TAN, EK TSOON	3,093,816
PRAYOGO, NICHOLAS ANDRIEN	3,128,291	SCOTT, ALAN	3,127,821	TAN, HU	3,129,979
PRECISE DOWNHOLE SERVICES LTD.	3,105,697	SEIDEL, TROY	3,102,550	TAX, DAVID SAMUEL	3,091,380
PROGRESSIVE INTERNATIONAL CORPORATION	3,129,813	SEKHAVAT, HOUFAR	3,091,554	TAX, DAVID SAMUEL	3,091,620
PROGRESSIVE INTERNATIONAL CORPORATION	3,129,814	SERPA, SEAN	3,127,790	TE CONNECTIVITY SERVICES GMBH	3,129,909
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QIAN, JINJIN	3,129,306	SHEIKH, DANIEL	3,128,076	TECHTRONIC CORDLESS GP	3,129,388
QUENZI, PHILIP J.	3,129,773	SHEN, JIAN	3,129,982	TECTUM HOLDINGS, INC.	3,100,524
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RAPER, PIERS	3,092,167	SHER, SHAWN	3,092,226	THE BOEING COMPANY	3,129,214
RAPER, PIERS	3,092,176	SHETTY, DINESH ANANDA	3,096,628	THE TORONTO-DOMINION BANK	3,091,380
RASTOGI, KUSHANK	3,091,620	SHIRLEY, JERRY	3,128,920	THE TORONTO-DOMINION BANK	3,091,620
RAU, ROBERT WILLIAM	3,128,750	SHOIFY INC.	3,119,285	THE TORONTO-DOMINION BANK	3,095,517
REDDEM, DILEEP	3,092,975	SHOIFY INC.	3,121,038	THE TORONTO-DOMINION BANK	3,117,290
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		SILVERTAND, BEN	3,091,704	TYCO ELECTRONICS AMP KOREA CO., LTD.	3,129,761
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WOO, GEOFF	3,129,814		
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3M INNOVATIVE PROPERTIES COMPANY	3,150,047	ALHAWAGRI, MUHAMMAD A.	3,145,885	AQDOT LIMITED	3,149,699
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9636137 CANADA INC.	3,145,820	ALLAKOS INC.	3,149,484	ARCELORMITTAL	3,149,949
A O IDEAS GMBH	3,145,588	ALLARD, RANDY	3,149,638	ARCUSIN S.A.	3,146,340
A2 BIOTHERAPEUTICS, INC.	3,150,071	ALLEGRO PHARMACEUTICALS, LLC	3,145,870	ARENA, CHRISTOPHER BRIAN	3,149,506
ABBASOVA, SVETLANA GEORGIEVNA	3,149,929	ALLEN, THADDEUS A.	3,149,796	ARKEMA FRANCE	3,145,233
ABBEDUTO, DENNIS	3,145,725	ALLOGENE THERAPEUTICS, INC.	3,145,614	ARMENT, ALEXANDRA	3,145,556
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ADAPTIMMUNE LIMITED	3,150,037	ALTERMAN, JULIA	3,149,835	ASAHI KASEI KABUSHIKI KAISHA	3,149,965
ADLORE, INC.	3,149,506	ALTERNATIVE GENE EXPRESSION S.L.	3,149,685	ASHWORTH, TOM	3,150,018
ADVANCED TECHNOLOGY & RESEARCH CORP.	3,145,951	ALTERNATIVE GENE EXPRESSION S.L.	3,149,687	ASKEW, CHARLES	3,149,679
AERUS, LLC	3,146,108	ALTERYX, INC.	3,149,794	ASPEN NEUROSCIENCE, INC.	3,145,700
AEURBACH-NEVO, TAMAR	3,149,947	ALVARADO FRADUA, CARMEN	3,149,685	ASSOCIATION INSTITUT DE MYOLOGIE	3,149,700
AFFOLTER, ROLAND	3,149,934	ALVARADO FRADUA, CARMEN	3,149,687	ASSOULINE, PATRICIA	3,146,072
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AGIE DE SELSATEN, VINCENT	3,146,056	AMEND, JOHN RICHARD, JR.	3,150,068	ASTELLAS PHARMA INC.	3,149,801
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COWLING, RALPH	3,150,018	DEJERO LABS INC.	3,149,828	DOSTALEK, MIREK	3,149,707
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CRINETICS PHARMACEUTICALS, INC.	3,149,840	DELAUTRE, GUILLAUME	3,146,291	DOW GLOBAL TECHNOLOGIES LLC	3,146,305
CROCI, ALBERTO MURAT	3,149,640	DELAUTRE, GUILLAUME	3,146,295	DOW GLOBAL TECHNOLOGIES LLC	3,146,338
CROMER, MICHAEL KYLE	3,145,687	DELAVAL HOLDING AB	3,149,933	DOW QUIMICA DE COLOMBIA S.A.	3,146,305
CRONIN, SARAH	3,149,849	DELEON, ALYSSA MARIE	3,150,025	DOW SILICONES CORPORATION	3,146,310
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CUE BIOPHARMA, INC.	3,146,591	DENAT, FRANCK	3,146,592	DOW SILICONES CORPORATION	3,146,327
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CUSINE BARBER, MANUEL	3,146,340	DENTSPLY SIRONA INC.	3,150,027	DREAME INNOVATION TECHNOLOGY (SUZHOU) CO., LTD.	3,145,808
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