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THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

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

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

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

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

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Notices

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

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

Code Numerals

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

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

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

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

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

Dates

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

Chiffres de code

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

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

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

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

2. Country Code

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

2. Code des pays

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

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

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

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

6. Licensing of Patents

Voluntary Licences

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

Compulsory Licences

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

7. Patents Available for Licence or Sale

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

8. List of Patents Available for Licence or Sale

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

None

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Octroi de licences en vertu des brevets

Licences librement accordées

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

Licences obligatoires

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

7. Brevets disponibles pour licence ou vente

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

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

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

Aucun

9. Applications Open to Public Inspection

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

10. Language of Published Documents

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

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

| | |
|-----------------------------------|---------|
| 1. Transmittal Fee (Rule 14) | \$300 |
| 2. International Filing Fee | \$1961* |
| For each additional sheet over 30 | \$22 |
| 3. International Search Fee | \$1600 |

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

| | |
|-------------------------------------|----------|
| 1. Taxe de transmission (Règle 14) | 300 \$ |
| 2. Taxe de dépôt internationale | 1961 \$* |
| Pour chaque feuille au delà de 30 | 22 \$ |
| 3. Taxe de recherche internationale | 1600 \$ |

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

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

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

4. Late payment fee

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

4. Taxe pour paiement tardif

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

Preliminary Examination

Examen préliminaire

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

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

6. Preliminary examination fee (Rule 58) \$800

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

* International fees will be reduced by:

* Les frais seront réduits de:

- \$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).

- 295 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- 442 \$ pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

12. PCT Notices

12. Avis PCT

Patent Cooperation Treaty (PCT)

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

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Offices.

(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.

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.

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*.

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).

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. 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

On this page:

1. Physical Delivery of Correspondence and Written Communications to CIPO
2. Electronic Correspondence
3. Details Concerning the Electronic Formats Accepted
4. General Information
5. Time Period Extensions
6. Procedures in Case of an Unexpected Office Closure at CIPO

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

Sur cette page :

1. Remise physique de correspondance et communications écrites à l'OPIC.
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This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

1.2. Registered 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 June 20, 2023 contains applications open to public inspection from June 4, 2023 to June 10, 2023.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 20 juin 2023 contient les demandes disponibles au public pour consultation pour la période du 4 juin 2023 au 10 juin 2023.

Canadian Patents Issued

June 20, 2023

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[11] **2,628,254**
[13] C

[51] **Int.Cl. A61K 35/28 (2015.01) A61P 37/06 (2006.01)**

[25] EN

[54] **IMMUNOMODULATORY PROPERTIES OF MULTIPOTENT ADULT PROGENITOR CELLS AND USES THEREOF**

[54] **PROPRIETES IMMUNOMODULATOIRES DE CELLULES PARENTES ADULTES MULTIPOTENTES ET UTILISATIONS DE CELLES-CI**

[72] DEANS, ROBERT, US

[72] VAN'T HOF, WOUTER, US

[72] MAZIARZ, RICHARD, US

[72] KOVACSOVICS, MAGDALENA, US

[72] STREETER, PHILIP, US

[73] OREGON HEALTH AND SCIENCE UNIVERSITY, US

[73] ABT HOLDING COMPANY, US

[85] 2008-05-01

[86] 2006-11-09 (PCT/US2006/043804)

[87] (WO2007/056578)

[30] US (11/269,736) 2005-11-09

[11] **2,666,667**
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) C12N 5/0784 (2010.01) A61K 35/15 (2015.01) A61P 37/04 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **GENERATING AN IMMUNE RESPONSE BY INDUCING CD40 AND PATTERN RECOGNITION RECEPTORS**

[54] **GENERATION D'UNE REPOSE IMMUNITAIRE PAR L'INDUCTION DE RECEPTEURS DE CD40 ET DE RECONNAISSANCE DE FORMES**

[72] SPENCER, DAVID, US

[72] LAPTEVA, NATALIA, US

[73] BAYLOR COLLEGE OF MEDICINE, US

[85] 2009-04-16

[86] 2007-10-19 (PCT/US2007/081963)

[87] (WO2008/049113)

[30] US (60/862,211) 2006-10-19

[30] US (60/895,088) 2007-03-15

[11] **2,730,928**
[13] C

[51] **Int.Cl. C12M 3/06 (2006.01) C12N 5/07 (2010.01) B01L 3/00 (2006.01)**

[25] EN

[54] **ORGAN MIMIC DEVICE WITH MICROCHANNELS AND METHODS OF USE AND MANUFACTURING THEREOF**

[54] **DISPOSITIF SIMULATEUR D'ORGANE COMPORTANT DES MICRO-CANAUX, PROCEDES POUR SON UTILISATION ET SA FABRICATION**

[72] INGBER, DONALD E., US

[72] HUH, DONGEUN, US

[73] CHILDREN'S MEDICAL CENTER CORPORATION, US

[85] 2011-01-14

[86] 2009-07-16 (PCT/US2009/050830)

[87] (WO2010/009307)

[30] US (61/081,080) 2008-07-16

[11] **2,744,473**
[13] C

[51] **Int.Cl. G06Q 10/0631 (2023.01) G06Q 10/105 (2023.01) G06F 3/048 (2013.01)**

[25] EN

[54] **A SYSTEM AND METHOD FOR EMPLOYEE RESOURCE MANAGEMENT**

[54] **SYSTEME ET PROCEDE DE GESTION DES RESSOURCES EN PERSONNEL**

[72] PODGURNY, LEONARD JOHN, CA

[72] RANDALL, ALAN BRUCE, CA

[72] OWENS, MATTHEW OREN, US

[72] MOROZ, MICHAEL ANTHONY, CA

[73] CANADIAN NATIONAL RAILWAY COMPANY, CA

[86] (2744473)

[87] (2744473)

[22] 2011-06-22

[30] US (61/357,904) 2010-06-23

[11] **2,747,398**
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0735 (2010.01) C12N 5/02 (2006.01)**

[25] EN

[54] **GENERATION AND MAINTENANCE OF STEM CELLS**

[54] **GENERATION ET ENTRETIEN DE CELLULES SOUCHES**

[72] LI, WENLIN, US

[72] ZHOU, HONGYAN, US

[72] DING, SHENG, US

[73] THE SCRIPPS RESEARCH INSTITUTE, US

[85] 2011-06-16

[86] 2009-12-16 (PCT/US2009/068274)

[87] (WO2010/077955)

[30] US (61/138,407) 2008-12-17

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[11] **2,797,868**
[13] C

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 38/17 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01) C07K 14/47 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS OF IDENTIFYING TUMOR SPECIFIC NEOANTIGENS**

[54] **COMPOSITIONS ET PROCÉDES D'IDENTIFICATION DE NEOANTIGENES SPECIFIQUES A UNE TUMEUR**

[72] HACOHEM, NIR, US

[72] WU, CATHERINE, US

[73] THE GENERAL HOSPITAL CORPORATION, US

[73] DANA-FARBER CANCER INSTITUTE, INC., US

[85] 2012-10-29

[86] 2011-05-16 (PCT/US2011/036665)

[87] (WO2011/143656)

[30] US (61/334,866) 2010-05-14

[11] **2,833,125**
[13] C

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

[25] EN

[54] **PROVIDING A MULTI-LINE DISCOUNT ON INSURANCE IN CONNECTION WITH THE PURCHASE OF A FINANCIAL SERVICES PRODUCT**

[54] **OFFRE D'UN RABAIS D'ASSURANCE MULTI-CONTRATS LIE A L'ACHAT D'UN PRODUIT DE SERVICES FINANCIERS**

[72] ROLL, LEIF A., US

[72] PRUS, DAVID VINCENT, US

[72] WU, JUN, US

[72] HAYWARD, GREGORY LEE, US

[72] MENNING, DAVID LEE, US

[73] STATE FARM MUTUAL AUTOMOBILE INSURANCE COMPANY, US

[86] (2833125)

[87] (2833125)

[22] 2013-11-08

[30] US (13/672,904) 2012-11-09

[11] **2,852,687**
[13] C

[51] **Int.Cl. G05B 19/042 (2006.01)**

[25] EN

[54] **FIELD CONTROL DEVICES HAVING PRE-DEFINED ERROR-STATES AND RELATED METHODS**

[54] **DISPOSITIFS DE COMMANDE DE CHAMP AYANT DES ETATS D'ERREUR PREDEFINIS ET PROCÉDES ASSOCIES**

[72] JENSEN, KURTIS KEVIN, US

[73] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2014-04-16

[86] 2012-10-19 (PCT/US2012/060976)

[87] (WO2013/062862)

[30] US (13/280,060) 2011-10-24

[11] **2,855,183**
[13] C

[51] **Int.Cl. H04H 60/25 (2009.01) H04N 21/4147 (2011.01) H04N 21/458 (2011.01)**

[25] EN

[54] **CONTENT SEGMENT DETECTION AND REPLACEMENT**

[54] **DETECTION ET REMPLACEMENT DE SEGMENT DE CONTENU**

[72] O'HARE, DAVID ANDREW, US

[72] MAO, WEIDONG, US

[72] NAFSHI, ELAD, US

[72] VICKERS, MARK ANDREW, US

[72] BROOME, GREGORY ALLEN, US

[72] KOTAY, SREE, US

[73] COMCAST CABLE COMMUNICATIONS, LLC, US

[86] (2855183)

[87] (2855183)

[22] 2014-06-25

[30] US (13/927,804) 2013-06-26

[11] **2,859,761**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6816 (2018.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01) G01N 33/52 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR ANALYTE DETECTION**

[54] **COMPOSITIONS ET PROCÉDES POUR LA DETECTION D'ANALYTES**

[72] LEVNER, DANIEL, US

[72] LEE, JEHYUK, US

[72] CHURCH, GEORGE M., US

[72] SUPER, MICHAEL, US

[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2014-06-17

[86] 2012-12-21 (PCT/US2012/071398)

[87] (WO2013/096851)

[30] US (61/579,265) 2011-12-22

[11] **2,870,625**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 9/10 (2006.01) A61P 25/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **HUMAN ANTIBODIES AND SPECIFIC BINDING SEQUENCES THEREOF FOR USE IN STROKE AND ISCHEMIA OR ISCHEMIC CONDITIONS**

[54] **ANTICORPS HUMAINS ET SEQUENCES DE LIAISON SPECIFIQUES DE CEUX-CI A UTILISER POUR UN ACCIDENT VASCULAIRE CEREBRAL ET UNE ISCHEMIE OU DES ETATS ISCHEMIQUES**

[72] RODRIGUEZ, MOSES, US

[72] WARRINGTON, ARTHUR E., US

[72] PEASE, LARRY R., US

[73] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US

[85] 2014-10-15

[86] 2013-04-17 (PCT/US2013/036947)

[87] (WO2013/158748)

[30] US (61/625,628) 2012-04-17

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[11] **2,874,972**
[13] C

[51] **Int.Cl. C12Q 1/6851 (2018.01) C12Q 1/6844 (2018.01) C12P 19/34 (2006.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **NUCLEIC ACID AMPLIFICATION AND USE THEREOF**

[54] **AMPLIFICATION D'ACIDE NUCLEIQUE ET SON UTILISATION**

[72] MORRISON, TOM, US

[73] ACCUGENOMICS, INC., US

[85] 2014-11-26

[86] 2013-05-24 (PCT/US2013/042666)

[87] (WO2013/177524)

[30] US (61/651,824) 2012-05-25

[11] **2,876,851**
[13] C

[51] **Int.Cl. C02F 5/10 (2006.01)**

[25] EN

[54] **METHOD OF CONTROLLING SCALE IN STEAM GENERATING SYSTEMS**

[54] **PROCEDE DE LUTTE CONTRE LE TARTRE DANS DES SYSTEMES DE GENERATION DE VAPEUR**

[72] MESKERS, DONALD A., JR., US

[72] DALE, TREVOR JAMES, US

[72] NEIDERT, BERNARD JOSEPH, US

[72] CROVETTO, ROSA, US

[72] WELTON, KAREN ANNETTE, US

[73] BL TECHNOLOGIES, INC., US

[85] 2014-12-15

[86] 2013-05-29 (PCT/US2013/042960)

[87] (WO2014/003942)

[30] US (13/531,871) 2012-06-25

[11] **2,877,422**
[13] C

[51] **Int.Cl. A01H 17/00 (2006.01) A01C 1/00 (2006.01) A01P 21/00 (2006.01) C12N 1/14 (2006.01) C12N 1/20 (2006.01) C12N 5/10 (2006.01) C05F 11/08 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING PLANT SEED CONTAINING ENDOPHYTIC MICRO-ORGANISMS**

[54] **PROCEDE DE PRODUCTION DE SEMENCES VEGETALES CONTENANT DES MICROORGANISMES ENDOPHYTES**

[72] MITTER, BIRGIT, AT

[72] SESSITSCH, ANGELA, AT

[72] NAVEED, MUHAMMAD, AT

[73] AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH, AT

[85] 2014-12-19

[86] 2013-06-21 (PCT/EP2013/062976)

[87] (WO2013/190082)

[30] EP (12173124.4) 2012-06-22

[11] **2,886,348**
[13] C

[51] **Int.Cl. H04L 12/40 (2006.01) B64D 31/00 (2006.01) H04J 3/00 (2006.01) H04L 67/125 (2022.01)**

[25] EN

[54] **MULTIPLE AIRCRAFT ENGINE CONTROL SYSTEM AND METHOD OF COMMUNICATING DATA THEREIN**

[54] **DISPOSITIF DE COMMANDE DE MOTEUR D'AERONEF MULTIPLE ET METHODE DE COMMUNICATION DE DONNEES INTERNE**

[72] DARBY, MICHAEL, CA

[72] DUKE, BRANT, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2886348)

[87] (2886348)

[22] 2015-03-26

[30] US (14/250,035) 2014-04-10

[11] **2,892,312**
[13] C

[51] **Int.Cl. A01F 21/00 (2006.01) F16P 3/00 (2006.01) F16P 3/08 (2006.01)**

[25] EN

[54] **SECURITY APPARATUS FOR A VERTICAL BALER**

[54] **APPAREIL DE SECURITE POUR PRESSE A BALLES VERTICALE**

[72] BEAUDOIN, JEAN-FRANCOIS, CA

[73] BEAUDOIN, JEAN-FRANCOIS, CA

[86] (2892312)

[87] (2892312)

[22] 2015-05-26

[30] GB (1409322.3) 2014-05-26

[11] **2,893,157**
[13] C

[51] **Int.Cl. B62B 3/04 (2006.01) B62B 3/14 (2006.01)**

[25] EN

[54] **INDUSTRIAL CART COMPRISING A MOTHER OR PRIMARY CART AND A SECONDARY OR DAUGHTER CART**

[54] **CHARRIOT INDUSTRIEL COMPORTANT UN CHARRIOT MERE OU PRIMAIRE ET UN CHARRIOT FILLE OU SECONDAIRE**

[72] SCARTH, IAN, CA

[72] PITCHER, DANNY W., CA

[73] SAILRAIL AUTOMATED SYSTEMS INC., CA

[86] (2893157)

[87] (2893157)

[22] 2015-05-28

[30] US (62/003,995) 2014-05-28

[11] **2,895,032**
[13] C

[51] **Int.Cl. H02K 15/00 (2006.01) H02K 3/38 (2006.01)**

[25] EN

[54] **AN ARRANGEMENT FOR MANUFACTURING A HEAD WINDING CAP**

[54] **AGENCEMENT DE FABRICATION D'UN CAPUCHON DE TETE DE BOBINE**

[72] BARIL, YANNICK, CA

[72] FIGUEROA, JOSE, CA

[72] SABOURIN, MICHEL, CA

[73] GE RENEWABLE TECHNOLOGIES, FR

[86] (2895032)

[87] (2895032)

[22] 2015-06-18

[30] EP (14174783.2) 2014-06-27

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[11] **2,895,546**
[13] C

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 10/40 (2018.01) G16H 10/60 (2018.01) G16H 15/00 (2018.01) G16H 20/10 (2018.01) G16H 40/67 (2018.01) G16H 50/30 (2018.01) A61B 5/145 (2006.01)**

[25] EN

[54] **ANALYSIS OF GLUCOSE MEDIAN, VARIABILITY, AND HYPOGLYCEMIA RISK FOR THERAPY GUIDANCE**

[54] **ANALYSE DE VALEUR MEDIANE DE GLYCEMIE, DE VARIABILITE ET DE RISQUE D'HYPOGLYCEMIE POUR SUPERVISION DE THERAPIE**

[72] DUNN, TIMOTHY C., US
[72] DONIGER, KENNETH J., US
[72] BERMAN, GLENN, US
[72] HAYTLER, GARY A., US
[72] BUDIMAN, ERWIN S., US
[72] BERNSTEIN, DANIEL M., US
[72] CROUTHER, NATHAN, US
[73] ABBOTT DIABETES CARE INC., US
[85] 2015-06-17
[86] 2013-12-31 (PCT/US2013/078535)
[87] (WO2014/106263)
[30] US (13/732,184) 2012-12-31

[11] **2,895,914**
[13] C

[51] **Int.Cl. A61K 31/198 (2006.01) A61K 31/00 (2006.01) A61K 31/19 (2006.01) A61K 31/352 (2006.01) A61K 31/568 (2006.01) A61K 45/06 (2006.01) A61P 5/26 (2006.01) A61P 19/10 (2006.01) A61P 21/06 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **UROLITHIN B WITH TESTOSTERONE, LEUCINE AND/OR CREATINE FOR MUSCLE GROWTH**

[54] **UROLITHINE B AVEC TESTOSTERONE, LEUCINE ET/OU CREATINE POUR LA CROISSANCE MUSCULAIRE**

[72] PRIEM, FABIAN, BE
[72] RODRIGUEZ, JULIE, FR
[72] FRANCAUX, MARC, BE
[72] FAUCHET, FABIENNE, BE
[73] MANS, JEAN-PIERRE, BE
[85] 2015-06-19
[86] 2014-01-20 (PCT/EP2014/051047)
[87] (WO2014/111580)
[30] EP (13151864.9) 2013-01-18

[11] **2,896,013**
[13] C

[51] **Int.Cl. A61B 5/11 (2006.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) A63B 71/08 (2006.01)**

[25] EN

[54] **OBJECTIVE BALANCE ERROR SCORING SYSTEM**

[54] **SYSTEME DE POINTAGE D'ERREUR D'EQUILIBRE OBJECTIF**

[72] BROWN, HARRISON JAMES, CA
[72] BLOUIN, JEAN-SEBASTIEN, CA
[72] SIEGMUND, GUNTER P., CA
[72] VAN DEN DOEL, KEES, CA
[73] HEADCHECK HEALTH INC., CA
[86] (2896013)
[87] (2896013)
[22] 2015-06-30

[11] **2,896,414**
[13] C

[51] **Int.Cl. C12Q 1/6809 (2018.01) G16H 50/20 (2018.01) G16B 5/00 (2019.01) G16B 40/00 (2019.01) G16B 25/10 (2019.01)**

[25] EN

[54] **ASSESSMENT OF CELLULAR SIGNALING PATHWAY ACTIVITY USING LINEAR COMBINATION(S) OF TARGET GENE EXPRESSIONS**

[54] **EVALUATION DE L'ACTIVITE D'UNE VOIE DE SIGNALISATION CELLULAIRE FAISANT APPEL A UNE OU DES COMBINAISONS LINEAIRES D'EXPRESSIONS DE GENES CIBLES**

[72] VAN OOIJEN, HENDRIK JAN, NL
[72] VERHAEGH, WILHELMUS FRANCISCUS JOHANNES, NL
[72] VAN DE WIEL, PAUL ARNOLD, NL
[73] INNOSIGN B.V., NL
[85] 2015-06-25
[86] 2013-12-18 (PCT/IB2013/061066)
[87] (WO2014/102668)
[30] US (61/745,839) 2012-12-26

[11] **2,897,572**
[13] C

[51] **Int.Cl. G01N 35/04 (2006.01) G01N 35/02 (2006.01)**

[25] EN

[54] **MULTIPLE PAYLOAD TYPE CARRIER**

[54] **MULTIPLES TYPES DE TRANSPORTEURS DE CHARGE UTILE**

[72] MELLARS, COLIN, US
[72] YAGCI, BARIS, US
[72] POLLACK, BENJAMIN S., US
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2015-07-08
[86] 2014-01-10 (PCT/US2014/011007)
[87] (WO2014/110346)
[30] US (61/751,619) 2013-01-11

[11] **2,897,911**
[13] C

[51] **Int.Cl. G06Q 30/0241 (2023.01) G06Q 30/0242 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR OPTIMIZING DATA DRIVEN MEDIA PLACEMENT**

[54] **SYSTEMES ET PROCEDES PERMETTANT D'OPTIMISER LA MISE EN PLACE D'UN SUPPORT DIRIGE PAR LES DONNEES**

[72] EMANS, MATTHEW, US
[72] HOCTOR, JOHN, US
[72] TURNER, JONATHAN, US
[73] ROVI TECHNOLOGIES CORPORATION, US
[85] 2015-07-10
[86] 2014-01-09 (PCT/US2014/010842)
[87] (WO2014/110236)
[30] US (61/750,809) 2013-01-10
[30] US (14/142,223) 2013-12-27
[30] US (14/142,226) 2013-12-27
[30] US (14/142,120) 2013-12-27

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[11] **2,899,476**
[13] C

[51] **Int.Cl. E04C 1/00 (2006.01) E04C 1/39 (2006.01)**
[25] EN
[54] **LOAD BEARING INTERLOCKING STRUCTURAL BLOCKS AND TENSIONING SYSTEM**
[54] **BLOCS STRUCTURAUX INTERBLOQUANTS PORTANT UNE CHARGE ET MECANISME TENSEURS**
[72] RADFORD, WILLIAM MALCOLM, CA
[73] JUST BIOFIBER STRUCTURAL SOLUTIONS CORP., CA
[86] (2899476)
[87] (2899476)
[22] 2015-07-31
[30] US (62/032,192) 2014-08-01
[30] US (62/100,790) 2015-01-07

[11] **2,901,888**
[13] C

[51] **Int.Cl. C07K 14/47 (2006.01) C07K 14/435 (2006.01) C07K 14/445 (2006.01)**
[25] EN
[54] **INFLUENZA NUCLEOPROTEIN VACCINES**
[54] **VACCINS A NUCLEOPROTEINES CONTRE LA GRIPPE**
[72] DEL CAMPO ASCARATEIL, JUDITH, FR
[72] HILL, FERGAL, FR
[73] OSIVAX SAS, FR
[85] 2015-08-19
[86] 2014-03-18 (PCT/EP2014/055438)
[87] (WO2014/147087)
[30] EP (13305320.7) 2013-03-18

[11] **2,901,907**
[13] C

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/68 (2018.01) C40B 40/06 (2006.01)**
[25] EN
[54] **METHODS OF SEQUENCING NUCLEIC ACIDS IN MIXTURES AND COMPOSITIONS RELATED THERETO**
[54] **METHODES DE SEQUENCAGE D'ACIDES NUCLEIQUES PRESENTS DANS DES MELANGES ET COMPOSITIONS ASSOCIEES**
[72] EMERICK, MARK C., US
[72] AGNEW, WILLIAM S., US
[73] EMORY UNIVERSITY, US
[73] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2015-08-19
[86] 2014-02-17 (PCT/US2014/016673)
[87] (WO2014/130388)
[30] US (61/766,841) 2013-02-20

[11] **2,904,304**
[13] C

[51] **Int.Cl. B60W 30/14 (2006.01)**
[25] EN
[54] **PREDICTIVE CRUISE CONTROL SYSTEM WITH ADVANCED OPERATOR CONTROL AND FEEDBACK**
[54] **SYSTEME DE REGULATEUR DE VITESSE PREDICTIF DOTE D'UNE COMMANDE OPERATEUR EVOLUEE ET DE RETROACTION**
[72] SLATON, ZACHARY, US
[72] VAN DER MEIJS, FLORIS, NL
[72] JAHNS, STEVEN KARL, US
[72] DOLL, JOHN WILLIAM ARTHUR, US
[72] LOTZ, JOSEF, US
[72] HARBACH, ANDREW PAUL, US
[72] MAYS, WESLEY M., US
[72] DROOGENDIJK, CAS, NL
[73] PACCAR INC, US
[86] (2904304)
[87] (2904304)
[22] 2015-09-15
[30] US (14/491,968) 2014-09-19

[11] **2,906,345**
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 33/48 (2006.01) G01N 33/50 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **SELF-CONTAINED MODULAR ANALYTICAL CARTRIDGE AND PROGRAMMABLE REAGENT DELIVERY SYSTEM**
[54] **CARTOUCHE D'ANALYSE MODULAIRE ET AUTONOME ET SYSTEME PROGRAMMABLE DE DISTRIBUTION DE REACTIF**
[72] ROBERTS, LESLIE DON, US
[73] ROBERTS, LESLIE DON, US
[85] 2015-09-14
[86] 2014-02-14 (PCT/US2014/016574)
[87] (WO2014/149277)
[30] US (61/802,408) 2013-03-16

[11] **2,906,944**
[13] C

[51] **Int.Cl. H04L 9/40 (2022.01) G06F 21/57 (2013.01) H04L 67/02 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSESSING SECURITY RISK**
[54] **SYSTEMES ET METHODES D'EVALUATION DE RISQUE DE SECURITE**
[72] BAILEY, CHRISTOPHER EVERETT, CA
[73] MASTERCARD TECHNOLOGIES CANADA ULC, CA
[85] 2015-09-15
[86] 2014-03-13 (PCT/CA2014/050229)
[87] (WO2014/138984)
[30] US (13/834,733) 2013-03-15

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[11] **2,907,304**
[13] C

[51] **Int.Cl. H04N 5/64 (2006.01) H04N 5/645 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISTRIBUTING, VIEWING, AND CONTROLLING DIGITAL ART AND IMAGING**
[54] **SYSTEMES ET PROCESSES DE DISTRIBUTION, DE VISUALISATION ET DE COMMANDE D'ART NUMERIQUE ET IMAGERIE ASSOCIEE**
[72] TRACHTENBERG, MARC, US
[72] GARIPEY, FRANCOIS, CA
[73] VIDERI INC., US
[85] 2015-09-15
[86] 2014-03-14 (PCT/US2014/029535)
[87] (WO2014/144930)
[30] US (61/800,681) 2013-03-15
[30] US (61/917,067) 2013-12-17
[30] US (14/213,981) 2014-03-14

[11] **2,916,077**
[13] C

[51] **Int.Cl. A61K 9/28 (2006.01) A61K 31/465 (2006.01) A61K 47/10 (2017.01) A61K 47/36 (2006.01) A61P 25/34 (2006.01)**
[25] EN
[54] **NICOTINE-CONTAINING SOLID ORAL FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS ORALES DE SOLIDE RENFERMANT DE LA NICOTINE ET UTILISATIONS ASSOCIEES**
[72] FUSCO, ROLANDO, CA
[72] CALDERONE, LEONARDO, CA
[73] EURO-PHARM INTERNATIONAL CANADA INC., CA
[73] NIC-HIT INTERNATIONAL INC., CA
[86] (2916077)
[87] (2916077)
[22] 2015-12-22

[11] **2,917,625**
[13] C

[51] **Int.Cl. H02K 1/22 (2006.01)**
[25] EN
[54] **AN ELECTRIC MOTOR ROTOR OPTIMIZED FOR GREAT POWERS**
[54] **UN ROTOR DE MOTEUR ELECTRIQUE OPTIMISE POUR LES GRANDES PUISSANCES**
[72] BILLAUD, ANTOINE, FR
[72] MAUFFREY, THIBAUT, FR
[73] GE ENERGY POWER CONVERSION TECHNOLOGY LTD, GB
[86] (2917625)
[87] (2917625)
[22] 2016-01-14
[30] EP (15305088.5) 2015-01-27

[11] **2,917,644**
[13] C

[51] **Int.Cl. B60B 35/12 (2006.01) B60B 31/00 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR INSTALLING A TORQUE TUBE**
[54] **SYSTEME, METHODE ET APPAREIL D'INSTALLATION D'UN TUBE DE TORSION**
[72] FAMA, ANTHONY PAUL, US
[72] DAESCHNER, BERND, US
[73] TRANSPORTATION IP HOLDINGS, LLC, US
[86] (2917644)
[87] (2917644)
[22] 2016-01-14

[11] **2,917,838**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **AN IMMUNOGLOBULIN FC CONJUGATE WHICH MAINTAINS BINDING AFFINITY OF IMMUNOGLOBULIN FC FRAGMENT TO FCRN**
[54] **UN CONJUGUE FC D'IMMUNOGLOBULINE QUI MAINTIENT UNE AFFINITE DE LIAISON DE FRAGMENT FC D'IMMUNOGLOBULINE AU FCRN**
[72] HWANG, SANG YOUN, KR
[72] LEE, JONG SOO, KR
[72] HONG, SUNG HEE, KR
[72] CHOI, IN YOUNG, KR
[72] JUNG, SUNG YOUB, KR
[72] KWON, SE CHANG, KR
[73] HANMI PHARM. CO., LTD., KR
[85] 2016-01-08
[86] 2014-07-14 (PCT/KR2014/006328)
[87] (WO2015/005747)
[30] KR (10-2013-0082509) 2013-07-12

[11] **2,919,495**
[13] C

[51] **Int.Cl. G01N 27/416 (2006.01)**
[25] EN
[54] **PLANAR CONFORMAL CIRCUITS FOR DIAGNOSTICS**
[54] **CIRCUITS CONFORMES PLANS POUR DIAGNOSTICS**
[72] PRASAD, SHALINI, US
[72] SELVAM, ANJAN PANNEER, US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2016-01-26
[86] 2014-07-31 (PCT/US2014/049228)
[87] (WO2015/017695)
[30] US (61/860,434) 2013-07-31
[30] US (61/860,460) 2013-07-31
[30] US (61/922,336) 2013-12-31

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[11] **2,922,459**
[13] C

[51] **Int.Cl. B21D 41/02 (2006.01) B21D 19/00 (2006.01)**
[25] EN
[54] **BITS FOR WIDENING OPEN END PORTIONS OF TUBES AND METHODS OF MANUFACTURE AND USE THEREOF**
[54] **MECHES POUR ELARGIR LES PARTIES D'EXTREMITE OUVERTE DE TUBES ET METHODES DE FABRICATION ET D'UTILISATION CONNEXES**
[72] ANJOS, BRUNO MULLER DOS, BR
[73] DIVERSITECH CORPORATION, US
[85] 2016-02-23
[86] 2013-09-30 (PCT/BR2013/000379)
[87] (WO2015/042674)

[11] **2,923,121**
[13] C

[51] **Int.Cl. B64C 25/02 (2006.01) B29C 70/48 (2006.01) F16B 7/00 (2006.01)**
[25] EN
[54] **ATTACHMENT OF COMPOSITE LUG TO COMPOSITE STRUCTURAL TUBE**
[54] **FIXATION D'UN ERGOT EN COMPOSITE A UN TUBE STRUCTUREL EN COMPOSITE**
[72] LUCE, WILLIAM E., US
[73] GOODRICH CORPORATION, US
[86] (2923121)
[87] (2923121)
[22] 2016-03-07
[30] US (14/720,359) 2015-05-22

[11] **2,923,255**
[13] C

[51] **Int.Cl. C08K 5/103 (2006.01) C08J 3/24 (2006.01) C08K 5/20 (2006.01) C08L 101/00 (2006.01)**
[25] EN
[54] **SORBIC ACID ESTER CONTAINING COATINGS COMPOSITION**
[54] **COMPOSITION DE REVETEMENTS RENFERMANT DE L'ESTER D'ACIDE SORBIQUE**
[72] ARTURO, STEVEN, US
[72] ARUMUGAM, SELVANATHAN, US
[72] ELL, JOHN, US
[72] EVEN, RALPH C., US
[72] ROWE, BRANDON, US
[72] SPARKS, JUSTIN, US
[72] YU, DECAI, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] ROHM AND HAAS COMPANY, US
[86] (2923255)
[87] (2923255)
[22] 2016-03-07
[30] US (62/134,051) 2015-03-17

[11] **2,923,979**
[13] C

[51] **Int.Cl. G06F 3/01 (2006.01) G16H 50/70 (2018.01) G06F 16/906 (2019.01) G06N 20/00 (2019.01) A61B 5/369 (2021.01) A61B 5/00 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR COLLECTING, ANALYZING, AND SHARING BIO-SIGNAL AND NON-BIO-SIGNAL DATA**
[54] **SYSTEMES ET PROCEDES POUR COLLECTER, ANALYSER ET PARTAGER DES DONNEES DE SIGNAL BIOLOGIQUE ET DE SIGNAL NON BIOLOGIQUE**
[72] COLEMAN, TREVOR CE, CA
[72] AIMONE, CHRISTOPHER ALLEN, CA
[72] GARTEN, ARIEL STEPHANIE, CA
[72] PINO, LOCILLO LOU GIUSEPPE, CA
[72] BARANOWSKI, PAUL HARRISON, CA
[72] RUPSINGH, RAUL RAJIV, CA
[72] VIDYARTHI, KAPIL JAY MISHRA, CA
[73] INTERAXON INC., CA
[85] 2016-03-10
[86] 2013-09-16 (PCT/CA2013/000785)
[87] (WO2014/040175)
[30] US (61/701,176) 2012-09-14
[30] US (61/701,002) 2012-09-14

[11] **2,927,165**
[13] C

[51] **Int.Cl. H03M 13/29 (2006.01) G01S 19/01 (2010.01) H03M 13/11 (2006.01) H03M 13/27 (2006.01)**
[25] EN
[54] **CODING AND DECODING METHODS WITH DIFFERENTIATED PROTECTION**
[54] **METHODES DE CODAGE ET DE DECODAGE A PROTECTION DIFFERENCIEE**
[72] RAIMONDI, MATHIEU, FR
[72] GADAT, BENJAMIN, FR
[72] AL BITAR, HANAA, FR
[73] THALES, FR
[86] (2927165)
[87] (2927165)
[22] 2016-04-14
[30] FR (1500806) 2015-04-17

[11] **2,928,875**
[13] C

[51] **Int.Cl. G01N 21/85 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETECTING MATTER**
[54] **PROCEDE ET APPAREIL DE DETECTION DE MATIERE**
[72] BALTHASAR, DIRK, DE
[72] HARTMANN, TOBIAS, DE
[72] MCGLOUGHLIN, JOHN, IE
[72] REID, DOUGLAS ALEXANDER, IE
[73] TOMRA SORTING NV, BE
[85] 2016-04-27
[86] 2014-11-03 (PCT/EP2014/073577)
[87] (WO2015/063299)
[30] EP (13191270.1) 2013-11-01

[11] **2,929,421**
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01) A41D 13/11 (2006.01) A41D 19/015 (2006.01) A61F 5/00 (2006.01) A63B 71/14 (2006.01)**
[25] EN
[54] **STRENGTH-ENHANCING GLOVE**
[54] **GANT AMELIORANT LA FORCE**
[72] AHDOOT, BENJAMIN, CA
[72] AHDOOT, SIMON, CA
[72] AHDOOT, ELIOT, CA
[73] BIGZ TECH, CA
[86] (2929421)
[87] (2929421)
[22] 2016-05-06
[30] US (62160905) 2015-05-13

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[11] **2,930,242**
[13] C

[51] **Int.Cl. F16L 25/00 (2006.01)**
[25] EN
[54] **LINING FOR MECHANICAL JOINTS**
[54] **DOUBLURE DE JOINTS MECANIQUES**
[72] ABOUELLEIL, ASHRAF, US
[72] SHARP, STEVE, US
[72] SAVALIA, PURUSHOTTAM, US
[73] MUELLER INTERNATIONAL, LLC, US
[86] (2930242)
[87] (2930242)
[22] 2016-05-17
[30] US (14/725,837) 2015-05-29

[11] **2,931,896**
[13] C

[51] **Int.Cl. G01N 3/00 (2006.01)**
[25] EN
[54] **ANALYSIS OF A STRUCTURE MODELED WITH INCONSISTENCIES MAPPED THEREON**
[54] **ANALYSE D'UNE STRUCTURE MODELISEE DANS LAQUELLE DES INCOHERENCES SONT INTEGREES**
[72] TAT, HONG HUE, US
[72] GREENE, KELLY M., US
[72] LIN, JOHN Z., US
[72] BREWER, CARLYN R., US
[72] KELLER, RUSSELL LEE, US
[73] THE BOEING COMPANY, US
[86] (2931896)
[87] (2931896)
[22] 2016-06-01
[30] US (14/832,575) 2015-08-21

[11] **2,932,045**
[13] C

[51] **Int.Cl. G01N 33/74 (2006.01) G01N 33/543 (2006.01) G01N 33/82 (2006.01)**
[25] EN
[54] **A METHOD FOR QUANTIFYING AN ANALYTE, AND AN AUTOMATIC ANALYTICAL DEVICE CONFIGURED TO IMPLEMENT SAID METHOD**
[54] **PROCEDE DE QUANTIFICATION D'ANALYTE ET DISPOSITIF D'ANALYSE AUTOMATIQUE CONCU POUR METTRE EN ŒUVRE CE PROCEDE**
[72] TRAN, JACQUELINE, US
[72] BRUTT, NORBERT, FR
[72] CORNAUT, LOIC, FR
[73] IMMUNODIAGNOSTIC SYSTEMS LIMITED, GB
[85] 2016-05-30
[86] 2014-12-03 (PCT/EP2014/076367)
[87] (WO2015/082526)
[30] EP (13195534.6) 2013-12-03

[11] **2,932,082**
[13] C

[51] **Int.Cl. A61B 1/012 (2006.01) A61B 17/94 (2006.01)**
[25] EN
[54] **SURGICAL GUIDE**
[54] **GUIDE CHIRURGICAL**
[72] SEYMOUR, STUART, US
[73] TRICE MEDICAL, INC., US
[85] 2016-05-26
[86] 2014-11-26 (PCT/US2014/067670)
[87] (WO2015/081231)
[30] US (61/909,907) 2013-11-27

[11] **2,932,174**
[13] C

[51] **Int.Cl. B61L 25/02 (2006.01)**
[25] EN
[54] **RAILROAD LOCOMOTIVE MONITORING SYSTEM CONFIGURATION SYSTEM AND METHOD**
[54] **SYSTEME DE SURVEILLANCE DE LOCOMOTIVE DE CHEMIN DE FER, SYSTEME DE CONFIGURATION ET METHODE**
[72] WEST, MICHEAL JOHN, US
[72] ALLWARDT, THEODORE E., US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[86] (2932174)
[87] (2932174)
[22] 2016-06-06
[30] US (15/012,504) 2016-02-01

[11] **2,935,160**
[13] C

[51] **Int.Cl. A61B 5/24 (2021.01) A61B 5/0533 (2021.01) A61B 5/25 (2021.01) A61B 5/00 (2006.01) A61B 5/021 (2006.01) A61B 5/024 (2006.01) A61B 5/145 (2006.01)**
[25] EN
[54] **METHODS, SYSTEMS, AND DEVICES FOR OPTIMAL POSITIONING OF SENSORS**
[54] **PROCEDES, SYSTEMES, ET DISPOSITIFS POUR LE POSITIONNEMENT OPTIMAL DE CAPTEURS**
[72] FOUGERE, RICHARD J., US
[72] LEE, CURTIS, US
[72] WALSH, RYAN, US
[73] LIFESCAN, INC., US
[85] 2016-06-27
[86] 2014-12-23 (PCT/US2014/072298)
[87] (WO2015/103061)
[30] US (61/922,097) 2013-12-31

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[11] **2,935,724**
[13] C

[51] **Int.Cl. C12N 15/67 (2006.01) C12N 15/113 (2010.01) C12N 15/09 (2006.01) C12N 15/85 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **CONSTRUCT AND SEQUENCE FOR ENHANCED GENE EXPRESSION**

[54] **CONSTRUCTION ET SEQUENCE POUR AMPLIFICATION DE L'EXPRESSION GENIQUE**

[72] VAN DER HEIJDEN, MAURICE WILHELMUS, NL

[72] ENGELS, BART MARINUS, NL

[73] PROTEONIC BIOTECHNOLOGY IP B.V., NL

[85] 2016-06-30

[86] 2014-12-24 (PCT/NL2014/050907)

[87] (WO2015/102487)

[30] EP (13199873.4) 2013-12-31

[30] EP (13199875.9) 2013-12-31

[11] **2,936,113**
[13] C

[51] **Int.Cl. B41K 1/38 (2006.01) B23K 26/00 (2014.01) B23K 26/10 (2006.01)**

[25] EN

[54] **PROCESSING SYSTEM FOR MULTIPLE DIFFERING WORKPIECES**

[54] **SYSTEME D'USINAGE POUR PLUSIEURS PIECES A USINER DIFFERENTES**

[72] PINOT, JEAN-PHILIPPE, FR

[72] VERRIER, STEPHANIE, FR

[73] TRODAT GMBH, AT

[85] 2016-07-07

[86] 2015-01-07 (PCT/AT2015/050003)

[87] (WO2015/103654)

[30] AT (A50017/2014) 2014-01-10

[11] **2,936,447**
[13] C

[51] **Int.Cl. G06Q 50/08 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MANAGING GEOSPATIAL DEPLOYMENT**

[54] **PROCEDE ET SYSTEME DE GESTION DU DEPLOIEMENT GEOSPATIAL**

[72] FORBES, JOSEPH PATRICK, AU

[72] FLEMMING, DANIEL PAUL, AU

[73] RENDER NETWORKS PTY LTD, AU

[85] 2016-07-11

[86] 2015-01-29 (PCT/AU2015/000045)

[87] (WO2015/113109)

[30] AU (2014200481) 2014-01-29

[11] **2,936,458**
[13] C

[51] **Int.Cl. A61B 5/053 (2021.01) A61B 5/0538 (2021.01) A61B 5/07 (2006.01) A61B 5/145 (2006.01)**

[25] EN

[54] **IMPLANTABLE SENSOR AND METHOD FOR SUCH SENSOR**

[54] **CAPTEUR IMPLANTABLE ET PROCEDE POUR UN TEL CAPTEUR**

[72] RUSU, ANA, SE

[72] DUENAS, SAUL ALEJANDRO RODRIGUEZ, SE

[72] OLLMAR, STIG, SE

[73] D.T.R. DERMAL THERAPY RESEARCH INC., CA

[85] 2016-07-11

[86] 2015-01-13 (PCT/EP2015/050484)

[87] (WO2015/107040)

[30] US (14/157,298) 2014-01-16

[11] **2,936,728**
[13] C

[51] **Int.Cl. C07K 14/705 (2006.01)**

[25] EN

[54] **OPIOID RECEPTOR BINDING AGENTS AND USES THEREOF**

[54] **AGENTS DE LIAISON AUX RECEPTEURS OPIOIDES ET LEURS UTILISATIONS**

[72] STEYAERT, JAN, BE

[72] LAEREMANS, TOON, BE

[72] PARDON, ELS, BE

[72] KOBILKA, BRIAN, US

[72] MANGLIK, AASHISH, US

[73] VIB VZW, BE

[73] VRIJE UNIVERSITEIT BRUSSEL, BE

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

[85] 2016-07-13

[86] 2015-01-30 (PCT/EP2015/051991)

[87] (WO2015/121092)

[30] US (61/933,742) 2014-01-30

[11] **2,941,020**
[13] C

[51] **Int.Cl. G01V 9/00 (2006.01) E21B 41/00 (2006.01) E21B 43/00 (2006.01)**

[25] EN

[54] **MODELING INTERSECTING FAULTS AND COMPLEX WELLBORES IN RESERVOIR SIMULATION**

[54] **MODELISATION DE DEFAUTS D'INTERSECTION ET DE Puits DE FORAGE COMPLEXES DANS UNE SIMULATION DE RESERVOIR**

[72] DING, XIANG YANG, SA

[72] FUNG, LARRY SIU-KUEN, SA

[72] DOGRU, ALI H., SA

[73] SAUDI ARABIAN OIL COMPANY, SA

[85] 2016-08-26

[86] 2015-03-16 (PCT/US2015/020677)

[87] (WO2015/142706)

[30] US (14/215,766) 2014-03-17

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[11] **2,943,633**
[13] C

[51] **Int.Cl. A01N 1/02 (2006.01) A61N 1/362 (2006.01) A61N 1/39 (2006.01)**

[25] EN

[54] **APPARATUS FOR MAINTENANCE OF HARVESTED HEARTS FOR TRANSPLANTING**

[54] **APPAREIL POUR CONSERVATION DE CŒURS PRELEVES POUR LA TRANSPLANTATION**

[72] FREED, DARREN, CA

[73] TEVOSOL, INC., CA

[85] 2016-09-23

[86] 2015-03-18 (PCT/CA2015/050201)

[87] (WO2015/143552)

[30] US (61/970,532) 2014-03-26

[11] **2,943,917**
[13] C

[51] **Int.Cl. G01N 1/28 (2006.01) A01K 51/00 (2006.01) A01M 1/00 (2006.01) A01M 3/00 (2006.01)**

[25] FR

[54] **PARASITE SEPARATION DEVICE**

[54] **DISPOSITIF DE SEPARATION DE PARASITES**

[72] SIEFERT, BENOIT, FR

[72] DE FERAUDY, LUDOVIC, FR

[72] CHARPENTIER, GAEL, FR

[72] MASSARD, RAPHAËLE, FR

[73] VETO-PHARMA, FR

[86] (2943917)

[87] (2943917)

[22] 2016-09-29

[11] **2,944,138**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) C07K 1/02 (2006.01)**

[25] EN

[54] **METHOD FOR IMPROVING SOLUBILITY OF PROTEIN AND PEPTIDE BY USING IMMUNOGLOBULIN FC FRAGMENT LINKAGE**

[54] **PROCEDE POUR AMELIORER LA SOLUBILITE DE PROTEINES ET DE PEPTIDES A L'AIDE DE LA LIAISON A UN FRAGMENT FC D'IMMUNOGLOBULINE**

[72] LIM, HYUNG KYU, KR

[72] LEE, JONG SOO, KR

[72] KIM, DAE JIN, KR

[72] BAE, SUNG MIN, KR

[72] JUNG, SUNG YOUB, KR

[72] KWON, SE CHANG, KR

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

[85] 2016-09-27

[86] 2015-03-31 (PCT/KR2015/003195)

[87] (WO2015/152618)

[30] KR (10-2014-0038032) 2014-03-31

[11] **2,944,530**
[13] C

[51] **Int.Cl. G21C 21/16 (2006.01) G21C 3/64 (2006.01)**

[25] EN

[54] **CERAMIC NUCLEAR FUEL DISPERSED IN A METALLIC ALLOY MATRIX**

[54] **COMBUSTIBLE NUCLEAIRE EN CERAMIQUE DISPERSE DANS UNE MATRICE EN ALLIAGE METALLIQUE**

[72] WALTERS, LEON C., US

[73] ADVANCED REACTOR CONCEPTS LLC, US

[85] 2016-09-29

[86] 2015-04-07 (PCT/US2015/024714)

[87] (WO2015/160571)

[30] US (61/979,260) 2014-04-14

[11] **2,945,925**
[13] C

[51] **Int.Cl. A61K 39/39 (2006.01) A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 47/36 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **PARTICULATE VACCINE FORMULATIONS FOR INDUCING INNATE AND ADAPTIVE IMMUNITY**

[54] **FORMULATIONS DE VACCIN PARTICULAIRE POUR INDUIRE L'IMMUNITE INNEE ET ACQUISE**

[72] KALTENBOECK, BERNHARD, US

[72] GUPTA, RAM B., US

[72] CHOWDHURY, ERFAN U., US

[72] OBER, COURTNEY A., US

[73] AUBURN UNIVERSITY, US

[85] 2016-10-14

[86] 2015-03-31 (PCT/US2015/023567)

[87] (WO2015/160501)

[30] US (61/981,328) 2014-04-18

[30] US (61/986,148) 2014-04-30

[11] **2,947,554**
[13] C

[51] **Int.Cl. H03M 13/11 (2006.01) H04W 80/02 (2009.01) H04L 1/24 (2006.01)**

[25] EN

[54] **CHANNEL CODING FRAMEWORK FOR 802.11AY AND LARGER BLOCK-LENGTH LDPC CODES FOR 11AY WITH TWO-STEP LIFTING MATRICES AND IN-PLACE PROPERTY**

[54] **STRUCTURE DE CODAGE DE CANAL DE CODES 802.11AY ET DE CODES LDPC A LONGUEUR DE BLOC PLUS GRANDE DESTINEE AU 11AY A MATRICES DE LEVAGE EN DEUX ETAPES ET PROPRIETE EN PLACE**

[72] ABU-SURRA, SHADI, US

[72] PISEK, ERAN, US

[72] HENIGE, THOMAS, US

[72] TAORI, RAKESH, US

[73] SAMSUNG ELECTRONICS CO., LTD., KR

[86] (2947554)

[87] (2947554)

[22] 2016-11-04

[30] US (62/251,823) 2015-11-06

[30] US (62/350,582) 2016-06-15

[30] US (15/294,612) 2016-10-14

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[11] **2,948,220**
[13] C

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/381 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **TRANSDERMAL DELIVERY SYSTEM CONTAINING ROTIGOTINE**

[54] **SYSTEME D'ADMINISTRATION TRANSDERMIQUE CONTENANT DE LA ROTIGOTINE**

[72] EMGENBROICH, MARCO, DE

[72] KLEIN, ELKE, DE

[72] KLUTH, HEIKE, DE

[73] LTS LOHMANN THERAPIE-SYSTEME AG, DE

[85] 2016-11-07

[86] 2015-05-20 (PCT/EP2015/061099)

[87] (WO2015/177204)

[30] EP (14169009.9) 2014-05-20

[11] **2,949,389**
[13] C

[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 10/00 (2015.01) C22C 38/32 (2006.01)**

[25] EN

[54] **LAYERED CONSTRUCTION OF METALLIC MATERIALS**

[54] **CONSTRUCTION PAR COUCHES DE MATERIAUX METALLIQUES**

[72] TUFFILE, CHARLES D., US

[72] LEMKE, HARALD, US

[73] MACLEAN-FOGG COMPANY, US

[85] 2016-11-16

[86] 2015-05-18 (PCT/US2015/031398)

[87] (WO2015/176061)

[30] US (61/994,758) 2014-05-16

[11] **2,950,342**
[13] C

[51] **Int.Cl. B63B 35/44 (2006.01)**

[25] EN

[54] **FLOATING CONSTRUCTION AND METHOD FOR INSTALLING SAME**

[54] **CONSTRUCTION FLOTTANTE ET METHODE D'INSTALLATION**

[72] FERNANDEZ GOMEZ, MIGUEL ANGEL, ES

[72] SERNA GARCIA-CONDE, JOSE, ES

[73] ESTEYCO S.A.P., ES

[73] SEA WIND TOWERS S.L., ES

[85] 2016-11-25

[86] 2015-05-27 (PCT/ES2015/070412)

[87] (WO2015/181424)

[30] ES (P201430794) 2014-05-27

[11] **2,950,633**
[13] C

[51] **Int.Cl. G06Q 30/08 (2012.01) G06F 3/0482 (2013.01)**

[25] EN

[54] **SYSTEM AND METHOD OF AUCTION MANAGEMENT**

[54] **SYSTEME ET METHODE DE GESTION D'ENCHERES**

[72] KRUPNIK, JOHN, US

[72] ABRAHAM, MAJU, US

[72] HILLIARD, ADAM, US

[72] HENDERSHOT, JEFF, US

[73] IAA INC., US

[86] (2950633)

[87] (2950633)

[22] 2016-11-30

[30] US (62/426,826) 2016-11-28

[11] **2,951,330**
[13] C

[51] **Int.Cl. B42D 25/373 (2014.01) B42D 25/324 (2014.01) B42D 25/328 (2014.01) B42D 25/351 (2014.01) B42D 25/425 (2014.01) G02B 5/18 (2006.01)**

[25] EN

[54] **SECURITY ELEMENT FOR PRODUCING VALUE DOCUMENTS**

[54] **ELEMENT DE SECURITE POUR LA FABRICATION DE DOCUMENTS DE VALEUR**

[72] LOCHBIHLER, HANS, DE

[73] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE

[85] 2016-12-06

[86] 2015-07-14 (PCT/EP2015/001442)

[87] (WO2016/015828)

[30] DE (10 2014 011 425.2) 2014-07-31

[11] **2,951,759**
[13] C

[51] **Int.Cl. A61L 2/238 (2006.01)**

[25] FR

[54] **USE OF MATERIALS INCORPORATING MICROPARTICLES FOR AVOIDING THE PROLIFERATION OF CONTAMINANTS**

[54] **UTILISATION DE MATERIAUX INCORPORANT DES MICROPARTICULES POUR EVITER LA PROLIFERATION DE CONTAMINANTS**

[72] MARCHIN, LOIC, FR

[73] PYLOTE, FR

[85] 2016-12-09

[86] 2015-06-25 (PCT/FR2015/051730)

[87] (WO2015/197992)

[30] FR (1455871) 2014-06-25

[11] **2,952,945**
[13] C

[51] **Int.Cl. G10L 15/00 (2013.01) H04N 21/431 (2011.01) H04N 21/472 (2011.01) H04N 21/482 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IDENTIFYING CONTENT CORRESPONDING TO A LANGUAGE SPOKEN IN A HOUSEHOLD**

[54] **SYSTEMES ET METHODES D'IDENTIFICATION DE CONTENU CORRESPONDANT A LA LANGUE PARLEE AU FOYER**

[72] MEHRA, SHUCHITA, US

[73] ROVI GUIDES, INC., US

[85] 2016-12-30

[86] 2016-07-19 (PCT/US2016/042923)

[87] (WO2017/015269)

[30] US (14/804,529) 2015-07-21

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[11] **2,953,064**
[13] C

- [51] **Int.Cl. A61K 31/4439 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **METHODS, COMPOUNDS, AND COMPOSITIONS FOR THE TREATMENT OF MUSCULOSKELETAL DISEASES**
[54] **METHODES, COMPOSES ET COMPOSITIONS POUR LE TRAITEMENT DE MALADIES MUSCULO-SQUELETTIQUES**
[72] GAFFNEY, KEVIN J., US
[72] RODGERS, KATHLEEN E., US
[72] LOUIE, STAN G., US
[72] DIZEREGA, GERE S., US
[72] PETASIS, NICOS A., US
[73] UNIVERSITY OF SOUTHERN CALIFORNIA, US
[85] 2016-12-20
[86] 2015-07-17 (PCT/US2015/041020)
[87] (WO2016/011420)
[30] US (62/026,006) 2014-07-17
[30] US (62/053,035) 2014-09-19

[11] **2,953,106**
[13] C

- [51] **Int.Cl. A61J 1/20 (2006.01) A61J 3/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COMPOUNDING MEDICATION**
[54] **SYSTEME ET PROCEDE DE PREPARATION MAGISTRALE**
[72] MANSOUR, GEORGE, US
[72] ZOLLINGER, CHRISTOPHER, US
[72] YEH, JONATHAN, US
[72] QUITOVIERA, NEIL, US
[73] CAREFUSION 303, INC., US
[85] 2016-12-20
[86] 2015-06-17 (PCT/US2015/036287)
[87] (WO2016/003652)
[30] US (14/319,617) 2014-06-30

[11] **2,954,515**
[13] C

- [51] **Int.Cl. A61B 17/02 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR SURGICAL ACCESS**
[54] **METHODES ET DISPOSITIFS PERMETTANT D'OBTENIR UN ACCES CHIRURGICAL**
[72] GARCIA-BENGOCHEA, JAVIER, US
[72] AMSBERG, MARC VON, US
[72] SOUZA, JOHN, JR., US
[72] LEWIS, RYAN, US
[73] GARCIA-BENGOCHEA, JAVIER, US
[85] 2017-01-06
[86] 2015-07-06 (PCT/US2015/039200)
[87] (WO2016/007412)
[30] US (62/021,202) 2014-07-06
[30] US (62/080,578) 2014-11-17
[30] US (62/080,590) 2014-11-17
[30] US (62/080,609) 2014-11-17
[30] US (62/080,557) 2014-11-17
[30] US (62/080,573) 2014-11-17
[30] US (62/156,184) 2015-05-01

[11] **2,955,210**
[13] C

- [51] **Int.Cl. B09C 1/10 (2006.01) B09C 1/08 (2006.01)**
[25] EN
[54] **METHOD AND COMPOSITION FOR INHIBITING METHANOGENESIS DURING IN-SITU SEDIMENT TREATMENT**
[54] **PROCEDE ET COMPOSITION DESTINES A INHIBER LA METHANOGENESE PENDANT LE TRAITEMENT IN SITU DE SEDIMENTS**
[72] HULL, JOHN, H., US
[72] MUELLER, JAMES, G., US
[73] AQUABLOK, LTD., US
[85] 2017-01-13
[86] 2015-06-24 (PCT/US2015/037389)
[87] (WO2016/010697)
[30] US (62/024,649) 2014-07-15

[11] **2,956,026**
[13] C

- [51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/558 (2006.01)**
[25] EN
[54] **SAMPLE ANALYSING DEVICE**
[54] **DISPOSITIF D'ANALYSE D'ECHANTILLONS**
[72] HUDSON, MARK, GB
[72] JOHNSON, JONATHAN, GB
[72] RUSSELL, DAVID, GB
[72] GOETZ, STEPHAN, GB
[72] STUCHINSKAYA, TANYA, GB
[73] INTELLIGENT FINGERPRINTING LIMITED, GB
[85] 2017-01-23
[86] 2015-07-24 (PCT/GB2015/052157)
[87] (WO2016/012812)
[30] GB (1413157.7) 2014-07-24

[11] **2,956,895**
[13] C

- [51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/168 (2006.01) A61M 39/00 (2006.01) A61M 39/02 (2006.01) A61M 39/08 (2006.01) A61M 39/10 (2006.01)**
[25] EN
[54] **INFUSION PUMP ASSEMBLY**
[54] **ENSEMBLE POMPE D'INFUSION**
[72] GRANT, KEVIN L., US
[72] DEMERS, JASON A., US
[72] TRACEY, BRIAN D., US
[72] KAMEN, DEAN, US
[72] LANIGAN, RICHARD J., US
[72] LANIER, GREGORY R., US
[72] FOO, BRIGHT C.K., US
[72] GUSTIN, LISA A., US
[72] SOLDAU, THOMAS F., US
[72] FICHERA, STEPHEN L., US
[72] CANNAN, DAVID D.B., US
[72] MOREAU, TIMOTHY D., US
[73] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[85] 2017-01-30
[86] 2015-07-02 (PCT/US2015/039026)
[87] (WO2016/004329)
[30] US (14/323,571) 2014-07-03
[30] US (14/323,604) 2014-07-03

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[11] **2,956,955**
[13] C

[51] **Int.Cl. E06B 3/30 (2006.01) E06B 3/70 (2006.01) E06B 3/78 (2006.01)**

[25] EN

[54] **STACKABLE MOLDED ARTICLES, AND RELATED ASSEMBLIES AND METHODS**

[54] **ARTICLES MOULES EMPILABLES ET ENSEMBLES ET PROCEDES ASSOCIES**

[72] GOUGE, TIMOTHY D., US

[72] ALLEN, ROBERT C., US

[72] HILL, ALLEN R., US

[73] MASONITE CORPORATION, US

[85] 2017-01-31

[86] 2015-08-06 (PCT/US2015/044008)

[87] (WO2016/022799)

[30] US (62/034,473) 2014-08-07

[11] **2,957,384**
[13] C

[51] **Int.Cl. A61B 3/113 (2006.01) A61B 5/16 (2006.01)**

[25] EN

[54] **METHODS AND KITS FOR DIAGNOSING, ASSESSING OR QUANTITATING DRUG USE, DRUG ABUSE AND NARCOSIS, INTERNUCLEAR OPHTHALMOPLÉGIA, ATTENTION DEFICIT HYPERACTIVITY DISORDER (ADHD), CHRONIC TRAUMATIC ENCEPHALOPATHY, SCHIZOPHRENIA SPECTRUM DISORDERS AND ALCOHOL CONSUMPTION**

[54] **PROCEDES ET KITS POUR DIAGNOSTIQUER, EVALUER OU QUANTIFIER L'UTILISATION DE DROGUES, L'ABUS DE DROGUES ET LA NARCOSE, L'OPHTHALMOPLÉGIE INTERNUCLEAIRE, LE TROUBLE DE L'HYPERACTIVITE AVEC DEFICIT DE L'ATTENTION (THADA), L'ENCEPHALOPATHIE TRAUMATIQUE CHRONIQUE, LES TROUBLES DU SPECTRE DE LA SCHIZOPHRENIE ET LA CONSOMMATION D'ALCOOL**

[72] SAMADANI, UZMA, US

[73] NEW YORK UNIVERSITY, US

[85] 2017-02-06

[86] 2015-07-31 (PCT/US2015/043083)

[87] (WO2016/022414)

[30] US (62/032,769) 2014-08-04

[30] US (62/065,057) 2014-10-17

[30] US (62/068,047) 2014-10-24

[30] US (62/102,164) 2015-01-12

[11] **2,958,842**
[13] C

[51] **Int.Cl. G06Q 20/00 (2012.01) H04N 21/254 (2011.01) G06Q 20/08 (2012.01) G06Q 20/22 (2012.01) H04L 12/14 (2006.01)**

[25] EN

[54] **TASK-BASED PAYMENT FOR CONTENT**

[54] **PAIEMENT POUR DU CONTENU CENTRE SUR LES TACHES**

[72] SCHWARZ, CHRISTIAN, CH

[73] NAGRAVISION S.A., CH

[85] 2017-02-21

[86] 2015-08-24 (PCT/EP2015/069347)

[87] (WO2016/030326)

[30] US (14/469,485) 2014-08-26

[11] **2,959,488**
[13] C

[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/40 (2006.01) A61K 31/505 (2006.01) A61P 9/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION AND THERAPEUTIC COMBINATION COMPRISING A CHOLESTERYL ESTER TRANSFER PROTEIN INHIBITOR AND HMG COA REDUCTASE INHIBITORS**

[54] **COMPOSITION PHARMACEUTIQUE ET COMBINAISON THERAPEUTIQUE COMPRENANT UN INHIBITEUR DE PROTEINE DE TRANSFERT D'ESTER DE CHOLESTERYLE ET DES INHIBITEURS DE HMG-COA REDUCTASE**

[72] JOHN, FORD, NL

[72] ROUND, PATRICK, GB

[72] KASTELEIN, JOHN, NL

[73] NEWAMSTERDAM PHARMA B.V., NL

[85] 2017-02-27

[86] 2015-08-03 (PCT/NL2015/050562)

[87] (WO2016/032324)

[30] NL (PCT/NL2014/050584) 2014-08-28

[11] **2,959,888**
[13] C

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

[25] EN

[54] **CARGO TANK ASSEMBLIES WITH GROUND LEVEL ACCESS**

[54] **ASSEMBLAGES DE RESERVOIR DE MARCHANDISE A ACCES AU NIVEAU DU SOL**

[72] CANNON, JOHN F., US

[73] WABASH NATIONAL, L.P., US

[86] (2959888)

[87] (2959888)

[22] 2017-03-03

[30] US (62/303,751) 2016-03-04

[30] US (62/309,049) 2016-03-16

[30] US (15/447,808) 2017-03-02

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[11] **2,959,955**
[13] C

[51] **Int.Cl. C09K 5/12 (2006.01) F24S 60/00 (2018.01) F24S 80/20 (2018.01) F28D 20/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR THERMAL STORAGE AND HEAT TRANSFER APPLICATIONS**

[54] **COMPOSITION DE STOCKAGE THERMIQUE ET APPLICATIONS DE TRANSFERT DE CHALEUR**

[72] PRAMOD, KANDOTH MADATHIL, IN

[72] RAMESH, KANAPARTHI, IN

[72] RAO, PEDDY VENKAT CHALAPATHI, IN

[72] CHOUDARY, NETTEM VENKATESWARLU, IN

[73] HINDUSTAN PETROLEUM CORPORATION LTD., IN

[85] 2017-03-01

[86] 2016-06-17 (PCT/IN2016/050188)

[87] (WO2016/203498)

[30] IN (2352/MUM/2015) 2015-06-19

[11] **2,960,286**
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01) A61B 5/145 (2006.01) A61M 5/142 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CAPTURING DOSE INFORMATION**

[54] **SYSTEME ET PROCEDE DE CAPTURE D'INFORMATIONS DE DOSE**

[72] SEARLE, GARY, US

[72] BURKE, ANDREW, US

[72] GIANELIS, STEPHEN, US

[72] FOCHT, KENNETH, US

[72] COSTELLO, PETER, US

[72] SIWINSKI, SHANE, US

[72] ROSS, FRANCIS L., III, US

[73] BECTON, DICKINSON AND COMPANY, US

[85] 2017-03-03

[86] 2015-09-14 (PCT/US2015/050014)

[87] (WO2016/040949)

[30] US (14/485,749) 2014-09-14

[11] **2,962,025**
[13] C

[51] **Int.Cl. G01M 99/00 (2011.01) B64F 5/60 (2017.01) G01B 21/22 (2006.01) G05B 19/418 (2006.01) G07C 3/14 (2006.01)**

[25] EN

[54] **INSPECTION TOOL FOR MANUFACTURED COMPONENTS**

[54] **OUTIL D'INSPECTION POUR COMPOSANTS FABRIQUES**

[72] REGNAULT, LAURENT, CA

[73] BOMBARDIER INC., CA

[73] AIRBUS CANADA LIMITED PARTNERSHIP, CA

[85] 2017-03-21

[86] 2015-09-21 (PCT/IB2015/057271)

[87] (WO2016/046729)

[30] US (62/055,026) 2014-09-25

[11] **2,963,169**
[13] C

[51] **Int.Cl. B29C 41/22 (2006.01) B29C 37/00 (2006.01) B32B 33/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING AN ELASTOMERIC SKIN HAVING A GRAINED SURFACE**

[54] **PROCEDE DE PRODUCTION D'UNE PEAU ELASTOMERE PRESENTANT UNE SURFACE GRENUE**

[72] VANLUCHENE, YVAN, BE

[72] DE CLERCQ, YVAN, BE

[72] DE DONCKER, LINDA, BE

[73] RECTICEL AUTOMOBILSYSTEME GMBH, DE

[85] 2017-03-30

[86] 2015-10-12 (PCT/EP2015/073549)

[87] (WO2016/058983)

[30] EP (14188691.1) 2014-10-13

[11] **2,964,233**
[13] C

[51] **Int.Cl. G07F 17/34 (2006.01)**

[25] EN

[54] **GAMING MACHINE WITH SYMBOL RESTRICTION**

[54] **MACHINE DE JEU A RESTRICTION DE SYMBOLE**

[72] WORTMANN, JONATHAN BRUCE, AU

[72] IGESUND, TERENCE, ZA

[73] GAMES GLOBAL OPERATIONS LIMITED, IM

[86] (2964233)

[87] (2964233)

[22] 2017-04-12

[30] GB (1607380.1) 2016-04-28

[11] **2,964,304**
[13] C

[51] **Int.Cl. G01N 27/622 (2021.01) G01N 27/624 (2021.01)**

[25] EN

[54] **ION MOBILITY SPECTROMETER WITH ION MODIFICATION**

[54] **SPECTROMETRE DE MOBILITE IONIQUE AVEC MODIFICATION IONIQUE**

[72] ATKINSON, JONATHAN, GB

[72] CLARK, ALASTAIR, GB

[73] SMITHS DETECTION - WATFORD LIMITED, GB

[85] 2017-04-11

[86] 2015-10-14 (PCT/GB2015/053033)

[87] (WO2016/059407)

[30] GB (1418182.0) 2014-10-14

[11] **2,965,001**
[13] C

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[25] EN

[54] **WATER TREATMENT SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT DES EAUX**

[72] BOUTET, ETIENNE, CA

[72] BAILLARGEON, SERGE, CA

[72] LORD, GARFIELD R., TC

[73] BIONEST TECHNOLOGIES INC., CA

[85] 2017-04-19

[86] 2015-10-20 (PCT/CA2015/000547)

[87] (WO2016/061664)

[30] US (62/066,033) 2014-10-20

[11] **2,966,018**
[13] C

[51] **Int.Cl. B63B 35/44 (2006.01) B63B 11/04 (2006.01) B63B 21/50 (2006.01) B63B 22/02 (2006.01) B63B 22/20 (2006.01) B63B 22/24 (2006.01) B63B 39/00 (2006.01)**

[25] EN

[54] **BUOYANT STRUCTURE**

[54] **STRUCTURE FLOTTANTE**

[72] VANDENWORM, NICOLAAS JOHANNES, US

[73] JURONG SHIPYARD PTE LTD., SG

[85] 2017-04-26

[86] 2015-10-26 (PCT/US2015/057397)

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[54] **IMAGING SYSTEM FOR OBJECT RECOGNITION AND ASSESSMENT**

[54] **SYSTEME D'IMAGERIE DE RECONNAISSANCE ET D'EVALUATION D'OBJET**

[72] MUTTI, CHRISTOPHER M., US

[72] LAU, DANIEL L., US

[72] COATES, JOHN P., US

[73] MUTTI, CHRISTOPHER M., US

[85] 2017-05-02

[86] 2015-11-20 (PCT/US2015/061849)

[87] (WO2016/081831)

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[13] C

[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01) B05B 17/06 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR THE NEBULISATION OF LIQUIDS**

[54] **DISPOSITIF ET METHODE POUR LA NEBULISATION DE LIQUIDES**

[72] REBOUD, JULIEN, GB

[72] WILSON, ROBERT, GB

[72] COOPER, JONATHAN, GB

[73] THE UNIVERSITY COURT OF THE UNIVERSITY OF GLASGOW, GB

[85] 2017-05-10

[86] 2015-11-11 (PCT/EP2015/076359)

[87] (WO2016/075209)

[30] GB (1420061.2) 2014-11-11

[11] **2,967,721**
[13] C

[51] **Int.Cl. F03D 7/02 (2006.01) F03D 80/00 (2016.01)**

[25] EN

[54] **METHOD FOR THE INDIVIDUAL PITCH CONTROL OF ROTOR BLADES OF A WIND TURBINE, AND WIND TURBINES**

[54] **PROCEDE POUR REGULER INDIVIDUELLEMENT LE PAS DE PALES DE ROTOR D'UNE EOLIENNE ET EOLIENNES**

[72] MULLER, MATHIAS, DE

[72] SCHUBERT, MATTHIAS, DE

[73] FOS4X GMBH, DE

[85] 2017-05-12

[86] 2015-12-01 (PCT/EP2015/078237)

[87] (WO2016/087455)

[30] DE (10 2014 117 918.8) 2014-12-04

[11] **2,967,791**
[13] C

[51] **Int.Cl. F16L 37/084 (2006.01) F16L 37/088 (2006.01)**

[25] EN

[54] **QUICK CONNECTOR**

[54] **RACCORD RAPIDE**

[72] HAMON, THIERRY, FR

[72] YOUINOU, PIERRE, FR

[72] GARRETT, JACOB, US

[72] FREDERIKSEN, STEVE, US

[72] GOCHA, KEN, US

[73] COOPER-STANDARD AUTOMOTIVE, INC., US

[86] (2967791)

[87] (2967791)

[22] 2017-05-19

[30] US (15/239,233) 2016-08-17

[11] **2,968,060**
[13] C

[51] **Int.Cl. C07C 333/04 (2006.01) A61K 47/20 (2006.01) C07C 323/60 (2006.01) C07C 333/10 (2006.01) C07J 31/00 (2006.01) C07J 41/00 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **IONIZABLE CATIONIC LIPID FOR RNA DELIVERY**

[54] **LIPIDE CATIONIQUE IONISABLE POUR L'ADMINISTRATION D'ARN**

[72] PAYNE, JOSEPH E., US

[72] CHIVUKULA, PADMANABH, US

[73] ARCTURUS THERAPEUTICS, INC., US

[85] 2017-05-16

[86] 2015-05-11 (PCT/US2015/030218)

[87] (WO2016/081029)

[30] US (14/546,105) 2014-11-18

[30] US (14/707,876) 2015-05-08

[30] US (14/707,796) 2015-05-08

[11] **2,969,576**
[13] C

[51] **Int.Cl. H04W 16/26 (2009.01) H04B 7/185 (2006.01) H04B 7/26 (2006.01)**

[25] EN

[54] **WIRELESS MESH NETWORK WITH COMMUNICATION BETWEEN AN AIRBORNE DEVICE AND A FIXED METROLOGY DEVICE**

[54] **RESEAU MAILLE SANS FIL AVEC COMMUNICATION ENTRE UN DISPOSITIF AEROPORTE ET UN DISPOSITIF DE METROLOGIE FIXE**

[72] SUGGS, KENNETH RANDALL, US

[73] LANDIS+GYR INNOVATIONS, INC., US

[85] 2017-06-01

[86] 2015-12-03 (PCT/US2015/063645)

[87] (WO2016/099920)

[30] US (62/094,337) 2014-12-19

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[13] C

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[25] EN
[54] **RECOMBINANT SWINEPOX VIRUS AND VACCINES**
[54] **VIRUS RECOMBINE DE LA VARIOLE PORCINE ET VACCINS ASSOCIES**
[72] SATO, TAKANORI, JP
[73] CEVA SANTE ANIMALE, FR
[85] 2017-06-02
[86] 2015-12-18 (PCT/EP2015/080468)
[87] (WO2016/097281)
[30] EP (EP14307110.8) 2014-12-19

[11] **2,970,398**

[13] C

- [51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/342 (2014.01)**
[25] EN
[54] **OPTICALLY VARIABLE SECURITY ELEMENT**
[54] **ELEMENT DE SECURITE OPTIQUEMENT VARIABLE**
[72] FUHSE, CHRISTIAN, DE
[72] HEINE, ASTRID, DE
[72] IMHOF, MARTIN, DE
[72] KECK-ANGERER, ANGELIKA, DE
[72] DORFLER, WALTER, DE
[72] FRANZ, PETER, DE
[73] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE
[85] 2017-06-09
[86] 2015-12-02 (PCT/EP2015/002417)
[87] (WO2016/020066)
[30] DE (10 2014 018 512.5) 2014-12-12

[11] **2,970,707**

[13] C

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[25] FR
[54] **CHITIN, HYDROLYSATE AND METHOD FOR THE PRODUCTION OF ONE OR MORE DESIRED PRODUCTS FROM INSECTS BY MEANS OF ENZYMATIC HYDROLYSIS**
[54] **CHITINE, HYDROLYSAT ET PROCEDE DE PRODUCTION DE PRODUIT(S) D'INTERET A PARTIR D'INSECTES PAR HYDROLYSE ENZYMATIQUE**
[72] BEREZINA, NATHALIE, FR
[72] HUBERT, ANTOINE, FR
[72] BERRO, FABRICE, FR
[72] LEVON, JEAN-GABRIEL, FR
[72] LE ROUX, KARINE, FR
[72] SOCOLSKY, CECILIA, FR
[72] SANCHEZ, LORENA, FR
[72] LAURENT, SOPHIE, FR
[73] YNSECT, FR
[85] 2017-06-12
[86] 2015-12-30 (PCT/FR2015/053781)
[87] (WO2016/108033)
[30] FR (1463512) 2014-12-31

[11] **2,971,001**

[13] C

- [51] **Int.Cl. A61B 17/70 (2006.01) A61B 17/82 (2006.01) A61B 17/84 (2006.01)**
[25] FR
[54] **DEVICE FOR ATTACHING A FLAT BAND ON A BONE PART**
[54] **DISPOSITIF DE FIXATION D'UNE BANDE PLATE SUR UNE PARTIE OSSEUSE**
[72] PASQUET, DENIS, FR
[72] LE COUEDIC, REGIS, FR
[73] IMPLANET, FR
[85] 2017-06-14
[86] 2016-01-19 (PCT/FR2016/050096)
[87] (WO2016/116692)
[30] FR (1550441) 2015-01-20

[11] **2,971,184**

[13] C

- [51] **Int.Cl. C08G 69/26 (2006.01) C08J 3/03 (2006.01) C08L 77/06 (2006.01)**
[25] EN
[54] **WATER DISPERSIBLE POLYAMIDE BUILDING BLOCKS**
[54] **ELEMENTS POLYAMIDE STRUCTURAUX DISPERSIBLES DANS L'EAU**
[72] PAJERSKI, ANTHONY D., US
[72] ERDODI, GABOR, US
[72] POURAHMADY, NASER, US
[73] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2017-06-15
[86] 2015-12-14 (PCT/US2015/065543)
[87] (WO2016/100201)
[30] US (62/093,503) 2014-12-18

[11] **2,971,297**

[13] C

- [51] **Int.Cl. B01J 37/02 (2006.01) B01J 21/06 (2006.01) B01J 23/75 (2006.01) B01J 35/00 (2006.01) B01J 35/02 (2006.01) B01J 37/00 (2006.01) B01J 37/08 (2006.01) B01J 37/18 (2006.01) B01J 37/16 (2006.01) C07C 1/04 (2006.01) C10G 2/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARATION OF A SUPPORTED COBALT-CONTAINING FISCHER-TROPSCH SYNTHESIS CATALYST**
[54] **PROCEDE DE PREPARATION D'UN CATALYSEUR SUPPORTE DE SYNTHESE DE FISCHER-TROPSCH CONTENANT DU COBALT**
[72] FERGUSON, EWEN, GB
[72] PATERSON, ALEXANDER, GB
[73] BP P.L.C., GB
[85] 2017-06-16
[86] 2015-12-21 (PCT/EP2015/080745)
[87] (WO2016/097402)
[30] EP (14199348.5) 2014-12-19

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[11] **2,972,158**
[13] C

[51] **Int.Cl. E04B 2/74 (2006.01) E04B 2/82 (2006.01)**
[25] EN
[54] **JOINT-SEALING TAPE HAVING PREDETERMINED GEOMETRY AND SEALING ASSEMBLY HAVING SUCH A JOINT-SEALING TAPE**
[54] **BANDE D'ETANCHEITE DE JOINTURE A GEOMETRIE PREDETERMINEE ET DISPOSITIF D'ETANCHEITE COMPRENANT UNE BANDE D'ETANCHEITE DE JOINTURE DE CE TYPE**
[72] KLEIN, MANFRED, DE
[72] FORG, CHRISTIAN, DE
[72] KOGLER, MARKUS, DE
[72] PAETOW, MARIO, DE
[73] HILTI AKTIENGESSELLSCHAFT, LI
[85] 2017-06-23
[86] 2016-02-05 (PCT/EP2016/052464)
[87] (WO2016/128306)
[30] EP (15155103.3) 2015-02-13

[11] **2,972,303**
[13] C

[51] **Int.Cl. C07D 307/08 (2006.01) C07C 29/149 (2006.01) C07D 307/60 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING TETRAHYDROFURAN, BUTANE-1,4-DIOL OR GAMMA-BUTYROLACTONE**
[54] **PROCEDE DE PREPARATION DE TETRAHYDROFUNANE, BUTANE-1 4-DIOL DE GAMMA-BUTYROLACTONE**
[72] DUEFERT, ALEXANDER, DE
[72] PINKOS, ROLF, DE
[72] WEISSKER, WOLF-STEFFEN, DE
[73] BASF SE, DE
[85] 2017-06-27
[86] 2016-01-08 (PCT/EP2016/050245)
[87] (WO2016/110556)
[30] EP (15150615.1) 2015-01-09

[11] **2,972,596**
[13] C

[51] **Int.Cl. A61M 15/00 (2006.01) A61M 11/00 (2006.01) A61M 16/04 (2006.01) A61M 16/10 (2006.01) B05B 17/06 (2006.01)**
[25] EN
[54] **AEROSOL MEDICATION DELIVERY SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ADMINISTRATION DE MEDICAMENT SOUS FORME D'AEROSOL**
[72] EGAN, EDMUND A., US
[72] FERGUSON, WILLIAM H., US
[73] ONY BIOTECH INC., US
[85] 2017-06-28
[86] 2015-12-28 (PCT/US2015/067600)
[87] (WO2016/109390)
[30] US (62/097,522) 2014-12-29

[11] **2,973,443**
[13] C

[51] **Int.Cl. C04B 7/52 (2006.01) C04B 28/04 (2006.01)**
[25] FR
[54] **NOVEL HYDRAULIC BINDER AND HYDRAULIC COMPOSITION COMPRISING SAME**
[54] **NOUVEAU LIANT HYDRAULIQUE ET COMPOSITION HYDRAULIQUE LE COMPRENANT**
[72] BOST, PASCAL, FR
[72] PISCH, ALEXANDER, FR
[72] MORIN, VINCENT, FR
[72] GARTNER, ELLIS, FR
[72] DUBOIS-BRUGGER, ISABELLE, FR
[73] HOLCIM TECHNOLOGY LTD, CH
[85] 2017-07-10
[86] 2016-01-15 (PCT/FR2016/050075)
[87] (WO2016/113513)
[30] FR (1550370) 2015-01-16

[11] **2,973,732**
[13] C

[51] **Int.Cl. C10K 1/00 (2006.01)**
[25] EN
[54] **PLASMA-ASSISTED METHOD AND SYSTEM FOR TREATING RAW SYNGAS COMPRISING TARS**
[54] **PROCEDE ASSISTE PAR PLASMA ET SYSTEME DE TRAITEMENT DE GAZ DE SYNTHESE BRUT COMPRENANT DES GOUDRONS**
[72] BACON, MARC, CA
[72] GOMAA, ISLAM, CA
[72] HAY, GRAEME, CA
[72] TSANGARIS, ANDREAS, CA
[73] OMNI CONVERSION TECHNOLOGIES INC., CA
[85] 2017-07-13
[86] 2016-01-13 (PCT/CA2016/050027)
[87] (WO2016/112460)
[30] US (62/103,114) 2015-01-14

[11] **2,973,998**
[13] C

[51] **Int.Cl. F21S 2/00 (2016.01) F21S 8/04 (2006.01) F21V 17/10 (2006.01) F21V 21/04 (2006.01) F21V 21/14 (2006.01)**
[25] EN
[54] **DIMENSIONALLY ADJUSTABLE LUMINAIRE HOUSING**
[54] **BOITIER DE LUMINAIRE A DIMENSIONS REGLABLES**
[72] VANG, SENG, US
[72] WERR, MARTIN CARL, US
[72] RECTOR, DAVID JOHN, US
[72] LEWIS, RANDY KENT, US
[72] SIMONI, DAVID ARTHUR, US
[73] HUBBELL LIGHTING, INC., US
[85] 2017-07-14
[86] 2015-12-30 (PCT/US2015/068116)
[87] (WO2016/114931)
[30] US (62/104,387) 2015-01-16

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[11] **2,974,198**
[13] C

- [51] **Int.Cl. H04W 52/16 (2009.01) H04W 16/14 (2009.01) H04J 11/00 (2006.01)**
[25] EN
[54] **FREQUENCY RESOURCE ALLOCATION FOR A NARROW-BAND CELLULAR INTERNET OF THINGS SYSTEM**
[54] **ALLOCATION DE RESSOURCES DE FREQUENCE A UN SYSTEME CELLULAIRE D'INTERNET DES OBJETS A BANDE ETROITE**
[72] LI, JUNYI, US
[72] ABEDINI, NAVID, US
[72] WANG, XIAO FENG, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-07-18
[86] 2016-01-07 (PCT/US2016/012507)
[87] (WO2016/137584)
[30] US (62/120,763) 2015-02-25
[30] US (14/988,878) 2016-01-06

[11] **2,974,267**
[13] C

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[25] EN
[54] **MOUNTING BRACKET FOR FALL ARREST DEVICE**
[54] **SUPPORT DE MONTAGE POUR DISPOSITIF ANTICHUTE**
[72] PASS, ANDREW, GB
[73] LATCHWAYS PLC, GB
[85] 2017-07-19
[86] 2016-02-12 (PCT/GB2016/050339)
[87] (WO2016/128759)
[30] GB (1502502.6) 2015-02-13

[11] **2,974,528**
[13] C

- [51] **Int.Cl. B29C 65/52 (2006.01) B05B 13/04 (2006.01) B05C 5/02 (2006.01) B05C 11/10 (2006.01) B65G 7/00 (2006.01) B68G 7/05 (2006.01)**
[25] EN
[54] **MATTRESS MANUFACTURING PROCESS AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE FABRICATION DE MATELAS**
[72] SUBHEDAR, VINIT V., US
[72] FOWLER, GREGORY, US
[72] JAN, FRANCIS, US
[73] DREAMWELL, LTD., US
[85] 2017-07-20
[86] 2016-01-22 (PCT/US2016/014482)
[87] (WO2016/118834)
[30] US (62/106,949) 2015-01-23

[11] **2,975,551**
[13] C

- [51] **Int.Cl. B60N 2/005 (2006.01) B60N 2/06 (2006.01) B60N 2/16 (2006.01)**
[25] EN
[54] **SEAT BASE ASSEMBLY OF A VEHICLE**
[54] **ENSEMBLE DE BASE DE SIEGE D'UN VEHICULE**
[72] LAIRD, MICHAEL, US
[72] MAYEKAWA, ROY, US
[72] PUGH, MICHAEL, US
[72] ZINDLER, MICHAEL T., US
[72] STONER, JAMES, US
[73] THE BRAUN CORPORATION, US
[85] 2017-07-31
[86] 2016-02-22 (PCT/US2016/018873)
[87] (WO2016/134352)
[30] US (62/118,774) 2015-02-20

[11] **2,975,803**
[13] C

- [51] **Int.Cl. C08L 23/12 (2006.01) C08K 3/04 (2006.01) C08K 7/06 (2006.01) C08L 23/02 (2006.01)**
[25] EN
[54] **TOUGHENED POLYOLEFIN AND BIOCARBON BASED LIGHT-WEIGHT BIOCOMPOSITES AND METHOD OF MAKING THE SAME.**
[54] **POLYOLEFINE RENFORCEE ET BIOCOMPOSITES LEGERS A BASE DE BIOCARBONE ET METHODE DE FABRICATION ASSOCIEE.**
[72] MOHANTY, AMAR K., CA
[72] MISRA, MANJU, CA
[72] BEHAZIN, EHSAN, CA
[72] RODRIGUEZ-URIBE, ARTURO, CA
[73] UNIVERSITY OF GUELPH, CA
[86] (2975803)
[87] (2975803)
[22] 2017-08-10
[30] US (62382990) 2016-09-02

[11] **2,976,183**
[13] C

- [51] **Int.Cl. H04N 21/236 (2011.01) H04N 21/2343 (2011.01) H04N 19/70 (2014.01) H04N 19/85 (2014.01)**
[25] EN
[54] **TRANSMISSION APPARATUS, TRANSMISSION METHOD, RECEPTION APPARATUS, AND RECEPTION METHOD**
[54] **DISPOSITIF DE TRANSMISSION, PROCEDE DE TRANSMISSION, DISPOSITIF DE RECEPTION ET PROCEDE DE RECEPTION**
[72] TSUKAGOSHI, IKUO, JP
[73] SONY CORPORATION, JP
[85] 2017-08-09
[86] 2016-02-09 (PCT/JP2016/053858)
[87] (WO2016/132976)
[30] JP (2015-029106) 2015-02-17

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[11] **2,976,426**
[13] C

[51] **Int.Cl. B61H 15/00 (2006.01) B61H 13/36 (2006.01)**
[25] EN
[54] **BRAKING SYSTEMS FOR RAILWAY CARS**
[54] **SYSTEMES DE FREINAGE POUR WAGONS DE CHEMIN DE FER**
[72] SUNDE, JONATHAN, US
[73] AMSTED RAIL COMPANY, INC., US
[85] 2017-08-11
[86] 2016-02-09 (PCT/US2016/017094)
[87] (WO2016/130512)
[30] US (14/619,740) 2015-02-11

[11] **2,976,428**
[13] C

[51] **Int.Cl. B61H 13/36 (2006.01)**
[25] EN
[54] **BRAKING SYSTEMS FOR RAILWAY CARS**
[54] **SYSTEMES DE FREINAGE POUR WAGONS DE CHEMIN DE FER**
[72] SUNDE, JONATHAN, US
[73] AMSTED RAIL COMPANY, INC., US
[85] 2017-08-11
[86] 2016-02-09 (PCT/US2016/017097)
[87] (WO2016/130513)
[30] US (14/619,772) 2015-02-11

[11] **2,976,776**
[13] C

[51] **Int.Cl. C07D 279/20 (2006.01) A61K 31/5415 (2006.01) A61P 25/00 (2006.01) A61P 25/14 (2006.01)**
[25] EN
[54] **PHENOTHIAZINE ANALOGUES AS MITOCHONDRIAL THERAPEUTIC AGENTS**
[54] **ANALOGUES DE PHENOTHIAZINE UTILISES COMME AGENTS THERAPEUTIQUES MITOCHONDRIAUX**
[72] HECHT, SIDNEY, US
[72] KHDOUR, OMAR, US
[72] CHOWDHURY, SANDIPAN ROY, US
[72] BANDYOPADHAY, INDRAJIT, US
[73] ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, US
[85] 2017-08-15
[86] 2016-02-17 (PCT/US2016/018233)
[87] (WO2016/133995)
[30] US (62/117,205) 2015-02-17

[11] **2,977,694**
[13] C

[51] **Int.Cl. E05B 27/00 (2006.01)**
[25] EN
[54] **PROGRAMMABLE LOCKING CYLINDER**
[54] **CYLINDRE DE FERMETURE PROGRAMMABLE**
[72] SERAFINI, RENATO, CH
[72] HERTLEIN, PETER, AT
[72] BOES, STEFAN, CH
[72] FOX, STEPHAN CECIL, CH
[72] MUSSGUG, MORITZ, CH
[72] TURK, DANIEL ALEXANDER, CH
[72] MEBOLDT, MIRKO, CH
[72] SPANI, URS, CH
[72] GUGERLI, BENJAMIN, CH
[73] DORMAKABA SCHWEIZ AG, CH
[85] 2017-08-24
[86] 2016-03-09 (PCT/CH2016/000044)
[87] (WO2016/141496)
[30] CH (00321/15) 2015-03-09

[11] **2,978,373**
[13] C

[51] **Int.Cl. B23K 11/20 (2006.01) B23K 10/02 (2006.01) B23K 11/06 (2006.01) B23K 11/11 (2006.01) B23K 11/14 (2006.01) B23K 15/00 (2006.01) B23K 26/20 (2014.01) B23K 28/02 (2014.01) C09J 5/10 (2006.01)**
[25] EN
[54] **METHOD OF WELDING METAL-BASED MATERIALS**
[54] **METHODE DE SOUDAGE DE MATERIAUX A BASE DE METAL**
[72] LINDNER, STEFAN, DE
[72] SKRLEC, JASMINKO, DE
[73] OUTOKUMPU OYJ, FI
[85] 2017-08-31
[86] 2016-03-11 (PCT/EP2016/055259)
[87] (WO2016/146511)
[30] EP (15158962.9) 2015-03-13

[11] **2,978,717**
[13] C

[51] **Int.Cl. H04N 13/351 (2018.01) H04N 13/282 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DISPLAYING LOCATION DEPENDENT CONTENT**
[54] **SYSTEME ET PROCEDE POUR AFFICHER UN CONTENU DEPENDANT DE L'EMPLACEMENT**
[72] THOMPSON, DAVID STEVEN, US
[72] DIETZ, PAUL HENRY, US
[72] NG, ALBERT HAN, US
[73] MISAPPLIED SCIENCES, INC., US
[85] 2017-09-05
[86] 2016-03-03 (PCT/US2016/020784)
[87] (WO2016/141248)
[30] US (62/127,434) 2015-03-03

[11] **2,979,779**
[13] C

[51] **Int.Cl. A61L 31/00 (2006.01) A61L 33/00 (2006.01) A61L 33/10 (2006.01)**
[25] EN
[54] **ANTITHROMBOTIC METALLIC MATERIAL**
[54] **MATERIAU METALLIQUE ANTITHROMBOTIQUE**
[72] KADOWAKI, KOJI, JP
[72] FUJITA, MASAKI, JP
[72] SAKAGUCHI, YUKA, JP
[72] TANAHASHI, KAZUHIRO, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2017-09-13
[86] 2016-03-31 (PCT/JP2016/060679)
[87] (WO2016/159243)
[30] JP (2015-071588) 2015-03-31
[30] JP (2015-106974) 2015-05-27

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[11] **2,980,303**

[13] C

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[25] EN
[54] **MOUNTING SYSTEM FOR MECHANICAL-SHOCK RESISTANT PRINTED CIRCUIT BOARD (PCB)**
[54] **SYSTEME DE MONTAGE POUR CARTE DE CIRCUIT IMPRIME (PCB) RESISTANTE AUX CHOCS MECANIQUES**
[72] NICOLOFF, WILLIAM JOHN, US
[73] AEROVIRONMENT, INC., US
[85] 2017-09-19
[86] 2016-03-18 (PCT/US2016/023119)
[87] (WO2016/149614)
[30] US (62/135,615) 2015-03-19

[11] **2,980,903**

[13] C

- [51] **Int.Cl. G06F 17/00 (2019.01) G06Q 20/14 (2012.01)**
[25] EN
[54] **AUTOMATIC HISTORICAL ANALYSIS OF DATA EXCHANGE**
[54] **ANALYSE D'HISTORIQUE AUTOMATIQUE D'ECHANGE DE DONNEES**
[72] LEE, JOHN JONG-SUK, CA
[72] HALDENBY, PERRY AARON JONES, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2980903)
[87] (2980903)
[22] 2017-09-29
[30] US (62/402,529) 2016-09-30

[11] **2,981,309**

[13] C

- [51] **Int.Cl. A63G 31/00 (2006.01)**
[25] EN
[54] **INCLUSIVE PLAY PANELS AND PLAYGROUND STRUCTURES COMPRISING THE PANELS**
[54] **PANNEAUX DE JEU INCLUSIFS ET STRUCTURES DE TERRAIN DE JEU COMPORTANT LES PANNEAUX**
[72] SUMRELL, JENNIE NEWMAN, US
[72] MOORE, LISA, US
[72] SMITH, SAMUEL GRADY, US
[72] NORQUIST, THOMAS ROBERT, US
[73] PLAYCORE WISCONSIN, INC., US
[86] (2981309)
[87] (2981309)
[22] 2017-10-03
[30] US (15/691,212) 2017-08-30
[30] US (62/404,629) 2016-10-05

[11] **2,981,974**

[13] C

- [51] **Int.Cl. A61M 37/00 (2006.01)**
[25] EN
[54] **MICRONEEDLES AND METHODS OF MANUFACTURE THEREOF**
[54] **MICRO-AIGUILLES ET LEURS PROCEDES DE FABRICATION**
[72] MCALLISTER, DEVIN, US
[72] PRAUSNITZ, MARK, US
[72] HENRY, SEBASTIEN, US
[72] GUO, XIN DONG, US
[73] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2017-10-05
[86] 2015-04-24 (PCT/US2015/027672)
[87] (WO2015/164840)
[30] US (61/983,593) 2014-04-24

[11] **2,982,433**

[13] C

- [51] **Int.Cl. A61J 7/00 (2006.01) A61J 7/04 (2006.01) B65B 35/26 (2006.01)**
[25] EN
[54] **MEDICINE DISPENSING CASSETTE**
[54] **CASSETTE DE DISTRIBUTEUR DE MEDICAMENT**
[72] MITANI, MITSUHIRO, JP
[72] YOROZU, TAKANORI, JP
[73] YUYAMA MFG. CO., LTD., JP
[85] 2017-10-11
[86] 2016-04-04 (PCT/JP2016/060994)
[87] (WO2016/167148)
[30] JP (2015-081308) 2015-04-11

[11] **2,983,116**

[13] C

- [51] **Int.Cl. F21V 21/116 (2006.01) F21V 29/76 (2015.01) F21S 8/08 (2006.01) F21V 15/01 (2006.01) F21V 23/00 (2015.01) F21K 9/00 (2016.01)**
[25] EN
[54] **MODULAR AREA LUMINAIRE**
[54] **APPAREIL D'ECLAIRAGE DE ZONE MODULAIRE**
[72] DUCKWORTH, JASON, US
[73] HUBBELL LIGHTING, INC., US
[85] 2017-10-17
[86] 2015-12-30 (PCT/US2015/068120)
[87] (WO2016/175902)
[30] US (62/155,189) 2015-04-30

[11] **2,983,293**

[13] C

- [51] **Int.Cl. G01N 33/48 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) G01N 33/53 (2006.01) G01N 33/566 (2006.01)**
[25] EN
[54] **MODULATORS OF ROR1-ROR2 BINDING**
[54] **MODULATEURS DE LA LIAISON ROR1-ROR2**
[72] KIPPS, THOMAS J., US
[72] YU, JIAN, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2017-10-18
[86] 2016-04-25 (PCT/US2016/029250)
[87] (WO2016/172726)
[30] US (62/152,424) 2015-04-24

[11] **2,983,799**

[13] C

- [51] **Int.Cl. G06Q 10/0639 (2023.01)**
[25] EN
[54] **BENCHMARKING THROUGH DATA MINING**
[54] **ETALONNAGE PAR EXPLORATION DE DONNEES**
[72] MOLE, TIM, NZ
[72] ANDERSON, GRANT, NZ
[73] XERO LIMITED, NZ
[85] 2017-10-24
[86] 2015-05-20 (PCT/US2015/031695)
[87] (WO2016/175869)
[30] US (14/696,925) 2015-04-27

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[13] C

[51] **Int.Cl. A47J 31/44 (2006.01) A47J 31/24 (2006.01) G01N 21/55 (2014.01)**
[25] EN
[54] **SIGNAL AND DETECTION SYSTEM FOR PAIRING PRODUCTS**
[54] **SYSTEME DE SIGNAL ET DE DETECTION POUR ASSOCIATION DE PRODUITS**
[72] HACKNEY, ROBERT STEVEN, CA
[72] ZOSIMADIS, PETER, CA
[73] SMART WAVE TECHNOLOGIES, INC., US
[85] 2017-10-24
[86] 2016-05-06 (PCT/CA2016/050524)
[87] (WO2016/176779)
[30] US (62/158,414) 2015-05-07

[11] **2,983,951**
[13] C

[51] **Int.Cl. B01F 23/451 (2022.01) B01F 25/315 (2022.01) B01F 35/83 (2022.01)**
[25] EN
[54] **HIGH SPEED INJECTOR WITH TWO STAGE TURBULENCE FLAP**
[54] **INJECTEUR A GRANDE VITESSE COMPORTANT UN VOLET DE TURBULENCE A DEUX ETAGES**
[72] LINDSTROM, ANDERS, SE
[72] LAMAS, AXEL, SE
[73] ANDRITZ AKTIEBOLAG, SE
[85] 2017-10-24
[86] 2016-04-27 (PCT/EP2016/059413)
[87] (WO2016/174094)
[30] SE (1550522-5) 2015-04-29

[11] **2,984,613**
[13] C

[51] **Int.Cl. F04B 45/047 (2006.01) F04B 39/00 (2006.01) F04B 39/14 (2006.01) F04B 45/04 (2006.01) A61M 27/00 (2006.01)**
[25] EN
[54] **MINIATURE VACUUM/PRESSURE DIAPHRAGM PUMPS WITH NOISE MITIGATION BOOT**
[54] **POMPES A MEMBRANE A VIDE/PRESSION MINIATURES A CARTER D'ATTENUATION DE BRUIT**
[72] SNYDER, SCOTT, US
[72] PRAIS, LEONARD, US
[72] SHARAFI, AMAN, US
[73] PARKER-HANNIFIN CORPORATION, US
[85] 2017-10-31
[86] 2016-05-05 (PCT/US2016/030917)
[87] (WO2016/179360)
[30] US (62/156,962) 2015-05-05

[11] **2,985,234**
[13] C

[51] **Int.Cl. B25C 1/00 (2006.01) B25C 1/04 (2006.01) B25C 1/06 (2006.01) B25C 5/10 (2006.01) B25C 7/00 (2006.01)**
[25] EN
[54] **CONTROL SYSTEM FOR GAS SPRING FASTENER DRIVER**
[54] **SYSTEME DE CONTROLE D'UN MECANISME DE FIXATION DE RESSORT A GAZ**
[72] POMEROY, EDWARD, US
[72] SCOTT, ZACHARY, US
[72] SCHNELL, JOHN, US
[72] NAMOUZ, ESSAM, US
[73] TTI (MACAO COMMERCIAL OFFSHORE) LIMITED, CN
[86] (2985234)
[87] (2985234)
[22] 2017-11-09
[30] US (62/419,863) 2016-11-09
[30] US (62/419,801) 2016-11-09

[11] **2,986,757**
[13] C

[51] **Int.Cl. A23L 33/24 (2016.01) A23K 20/163 (2016.01) A23L 27/30 (2016.01) A23L 29/262 (2016.01) A23L 33/21 (2016.01) A23G 3/38 (2006.01) A23G 3/42 (2006.01)**
[25] EN
[54] **LOW CALORIE FOOD COMPOSITIONS**
[54] **COMPOSITIONS ALIMENTAIRES PEU CALORIQUES**
[72] VAN DAMME, ISABELLA BERNARDA MAXIMILIENNE, GB
[73] MARS, INCORPORATED, US
[85] 2017-11-21
[86] 2016-06-17 (PCT/US2016/038117)
[87] (WO2016/205677)
[30] GB (1510775.8) 2015-06-19

[11] **2,987,224**
[13] C

[51] **Int.Cl. F41A 23/20 (2006.01) B64D 7/06 (2006.01) F41A 27/02 (2006.01) F41A 17/08 (2006.01)**
[25] EN
[54] **FIREARM SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT POUR ARME A FEU**
[72] LEONESIO, GIAN BATTISTA, IT
[72] CASTELLETTI, PAOLOANDREA, IT
[72] GREGORINI, GIANMARIO, IT
[73] LEONARDO S.P.A., IT
[85] 2017-11-24
[86] 2016-05-27 (PCT/IB2016/053131)
[87] (WO2016/189507)
[30] IT (102015000018853) 2015-05-28

[11] **2,987,551**
[13] C

[51] **Int.Cl. A61M 5/31 (2006.01) A61J 1/14 (2006.01) A61J 1/20 (2006.01)**
[25] EN
[54] **IMPROVED COMPONENTS OF A FLUID TRANSFER APPARATUS**
[54] **COMPOSANTS AMELIORES D'UN APPAREIL DE TRANSFERT DE FLUIDE**
[72] KRIHELI, MARINO, IL
[73] EQUASHIELD MEDICAL LTD., IL
[85] 2017-11-28
[86] 2016-06-06 (PCT/IL2016/050590)
[87] (WO2016/199133)
[30] IL (239366) 2015-06-11

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[11] **2,991,062**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01)**
[25] EN
[54] **IMPROVED NANOPARTICLE DELIVERY SYSTEMS**
[54] **SYSTEMES AMELIORES D'ADMINISTRATION DE NANOPARTICULES**
[72] WAN, LEON, CA
[72] LUI, WINNIE, CA
[72] TARDI, PAUL, CA
[72] MAYER, LAWRENCE, CA
[73] CELATOR PHARMACEUTICALS, INC., US
[85] 2017-12-28
[86] 2016-07-14 (PCT/US2016/042330)
[87] (WO2017/011685)
[30] US (62/192,973) 2015-07-15
[30] US (62/252,396) 2015-11-06

[11] **2,991,597**
[13] C

[51] **Int.Cl. C08F 8/04 (2006.01) C08F 297/02 (2006.01) C08K 5/00 (2006.01) C08K 5/01 (2006.01) C08L 53/02 (2006.01)**
[25] EN
[54] **HYDROGENATED RUBBER WITH IMPROVED PERFORMANCE IN TPE COMPOSITIONS**
[54] **CAOUTCHOUC HYDROGENE AYANT UNE EFFICACITE AMELIOREE PRESENT DANS DES COMPOSITIONS DE TPE**
[72] CRUZ TEJEDOR, MARIA ANGELA, ES
[72] FRAGA TRILLO, LUISA MARIA, ES
[72] ALONSO ZAPIRAIN, INES, ES
[73] DYNASOL ELASTOMEROS S.A., ES
[85] 2018-01-05
[86] 2016-07-21 (PCT/EP2016/067409)
[87] (WO2017/016975)
[30] EP (15382385.1) 2015-07-24

[11] **2,991,689**
[13] C

[51] **Int.Cl. A61N 1/18 (2006.01) A61B 18/00 (2006.01) A61B 18/12 (2006.01) A61B 18/18 (2006.01) A61B 18/20 (2006.01) A61N 5/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHODS FOR DELIVERY OF STIMULATION TO A BODY TISSUE**
[54] **DISPOSITIF ET PROCEDES D'ADMINISTRATION DE STIMULATION SUR UN TISSU CORPOREL**
[72] SOLOMON, SASI, IL
[73] SOLOMON, SASI, IL
[85] 2018-01-08
[86] 2015-07-23 (PCT/IL2015/050763)
[87] (WO2016/103245)
[30] US (62/028,433) 2014-07-24
[30] US (62/103,676) 2015-01-15

[11] **2,991,800**
[13] C

[51] **Int.Cl. C12N 5/00 (2006.01) C12N 15/09 (2006.01)**
[25] EN
[54] **METHODS FOR MODULATING PRODUCTION PROFILES OF RECOMBINANT PROTEINS**
[54] **PROCEDES DE MODULATION DE PROFILS DE PRODUCTION DE PROTEINES RECOMBINANTES**
[72] MUHR, ANAIS, FR
[72] BRUHLMANN, DAVID, CH
[72] JORDAN, MARTIN, CH
[72] BROLY, HERVE, CH
[72] STETTLER, MATTHIEU, CH
[73] ARES TRADING S.A., CH
[85] 2018-01-09
[86] 2016-07-07 (PCT/EP2016/066147)
[87] (WO2017/012886)
[30] EP (15177224.1) 2015-07-17

[11] **2,991,863**
[13] C

[51] **Int.Cl. E04B 1/41 (2006.01) E04B 1/48 (2006.01) E04B 5/02 (2006.01) E04C 5/18 (2006.01)**
[25] EN
[54] **FLOOR DOWEL SLEEVE FOR CONCRETE SLAB SEAMS**
[54] **MANCHON DE GOUJON DE PLANCHER DESTINE A DES JOINTS DE DALLE DE BETON**
[72] HANSORT, MARINUS, US
[73] CCS CONTRACTOR EQUIPMENT & SUPPLY, LLC, US
[86] (2991863)
[87] (2991863)
[22] 2018-01-15
[30] US (62/446,704) 2017-01-16

[11] **2,992,376**
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/58 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **METHOD FOR IMPROVING AQUEOUS SOLUBILITY OF WATER-INSOLUBLE OR SLIGHTLY WATER-SOLUBLE DRUGS**
[54] **PROCEDE D'AMELIORATION DE LA SOLUBILITE AQUEUSE DE MEDICAMENTS HYDRO-INSOLUBLES OU Legerement HYDROSOLUBLES**
[72] GRASSAUER, ANDREAS, AT
[72] PRIESCHL-GRASSAUER, EVA, AT
[72] BODENTEICH, ANGELIKA, AT
[72] MOROKUTTI-KURZ, MARTINA, AT
[72] NAKOWITSCH, SABINE, AT
[72] KAINZ, CORNELIA, AT
[73] MARINOMED BIOTECH AG, AT
[85] 2018-01-12
[86] 2016-07-15 (PCT/EP2016/066999)
[87] (WO2017/009480)
[30] US (14/801578) 2015-07-16

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[11] **2,992,645**
[13] C

[51] **Int.Cl. H04W 4/00 (2018.01) H04W 74/06 (2009.01) A01M 23/00 (2006.01)**

[25] EN

[54] **A PEST CONTROL MONITORING SYSTEM**

[54] **SYSTEME DE SURVEILLANCE ET DE LUTTE ANTIPARASITAIRE**

[72] ZOSIMADIS, PETER, CA

[73] SMART WAVE TECHNOLOGIES, INC., US

[85] 2018-01-16

[86] 2016-07-21 (PCT/CA2016/050860)

[87] (WO2017/011916)

[30] US (62/195,210) 2015-07-21

[11] **2,993,408**
[13] C

[51] **Int.Cl. C11D 3/37 (2006.01) C11D 11/00 (2006.01) D06B 11/00 (2006.01) D06F 35/00 (2006.01)**

[25] EN

[54] **CLEANING METHOD, APPARATUS AND USE**

[54] **PROCEDE, APPAREIL DE NETTOYAGE ET UTILISATION**

[72] BIRD, ROBERT ANDREW, GB

[72] JENKINS, STEPHEN DEREK, GB

[72] KLOKE, PHILIPP, DE

[72] KNIESEL, SIMON, DE

[72] SATHYANARAYANA, SHYAM, DE

[72] SCHOEMER, MARTINA, DE

[73] XEROS LIMITED, GB

[85] 2018-01-23

[86] 2016-07-28 (PCT/GB2016/052314)

[87] (WO2017/017455)

[30] GB (1513346.5) 2015-07-29

[11] **2,993,464**
[13] C

[51] **Int.Cl. H01M 8/18 (2006.01)**

[25] EN

[54] **REDOX FLOW CELL FOR STORING ELECTRICAL ENERGY AND USE THEREOF**

[54] **CELLULE D'OXYDOREDUCTION POUR LE STOCKAGE D'ENERGIE ELECTRIQUE ET EMPLOI DE LADITE CELLULE**

[72] SCHUBERT, ULRICH SIGMAR, DE

[72] JANOSCHKA, TOBIAS, DE

[72] MARTIN, NORBERT, DE

[73] JENABATTERIES GMBH, DE

[85] 2018-01-24

[86] 2016-08-03 (PCT/EP2016/001338)

[87] (WO2017/025177)

[30] DE (10 2015 010 083.1) 2015-08-07

[11] **2,993,704**
[13] C

[51] **Int.Cl. G10L 15/00 (2013.01) H04M 3/56 (2006.01)**

[25] EN

[54] **VOICE COMMAND PROCESSING FOR CONFERENCING**

[54] **TRAITEMENT DE COMMANDE VOCALE DESTINE A LA TENUE D'UNE CONFERENCE**

[72] CARINO, ERIC N., US

[73] MITEL NETWORKS, INC., US

[86] (2993704)

[87] (2993704)

[22] 2018-02-01

[30] US (15/423028) 2017-02-02

[11] **2,994,151**
[13] C

[51] **Int.Cl. C08G 18/50 (2006.01) C08G 18/32 (2006.01) C08G 18/76 (2006.01) C09D 175/04 (2006.01)**

[25] EN

[54] **GUANYLUREA ALCOHOL PHOSPHATES AND THEIR USE AS REACTANTS IN POLYURETHANE AND EPOXY RESIN APPLICATIONS**

[54] **PHOSPHATES ALCOOLIQUES DE GUANYLUREE ET LEUR UTILISATION EN TANT QUE REACTIFS DANS DU POLYURETHANE ET DES APPLICATIONS DE RESINE EPOXY**

[72] LAI, JOHN TA-YUAN, US

[72] NAGORSKI, JANEAN, US

[73] LUBRIZOL ADVANCED MATERIALS, INC., US

[85] 2018-01-29

[86] 2016-07-26 (PCT/US2016/044037)

[87] (WO2017/023613)

[30] US (62/199,456) 2015-07-31

[11] **2,994,225**
[13] C

[51] **Int.Cl. C05C 3/00 (2006.01) C05G 3/90 (2020.01) C05C 9/00 (2006.01)**

[25] EN

[54] **IMPROVED UREA AMMONIUM SULPHATE-BASED COMPOSITION AND METHOD FOR THE MANUFACTURE THEREOF**

[54] **COMPOSITION A BASE D'UREE-SULFATE D'AMMONIUM ET SON PROCEDE DE FABRICATION**

[72] COLPAERT, FILIP, BE

[72] LEDOUX, FRANCOIS, FR

[72] VAN BELZEN, RUUD, NL

[73] YARA INTERNATIONAL ASA, NO

[85] 2018-01-30

[86] 2016-09-07 (PCT/EP2016/071034)

[87] (WO2017/042194)

[30] NO (20151154) 2015-09-08

[11] **2,994,407**
[13] C

[51] **Int.Cl. E02F 9/20 (2006.01) G05G 9/047 (2006.01)**

[25] EN

[54] **JOYSTICK CONTROLLER FOR POWER MACHINE**

[54] **UNITE DE COMMANDE DE LEVIER DE COMMANDE POUR MACHINE ELECTRIQUE**

[72] BINSTOCK, MARK W., US

[72] LACOE, SCOTT J., US

[73] CLARK EQUIPMENT COMPANY, US

[85] 2018-01-31

[86] 2016-08-03 (PCT/US2016/045301)

[87] (WO2017/024008)

[30] US (62/200,247) 2015-08-03

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[11] **2,995,032**
[13] C

[51] **Int.Cl. C02F 1/52 (2006.01) B01D 21/01 (2006.01)**
[25] EN
[54] **A METHOD FOR REMOVING HUMIC SUBSTANCES FROM AN AQUEOUS ALKALINE SOLUTION**
[54] **PROCEDE D'ELIMINATION DES SUBSTANCES HUMIQUES D'UNE SOLUTION ALCALINE AQUEUSE**
[72] AHLGREN, JONNI, FI
[72] HALTTUNEN, SAKARI, FI
[72] RUOTSALAINEN, JUSSI, FI
[72] LUHTALA, MARIA, FI
[72] NIEMELA, MIIA, FI
[73] KEMIRA OYJ, FI
[85] 2018-02-07
[86] 2016-08-31 (PCT/FI2016/050595)
[87] (WO2017/037340)
[30] FI (20155628) 2015-09-02

[11] **2,996,033**
[13] C

[51] **Int.Cl. H03B 17/00 (2006.01) G02F 2/02 (2006.01) H03K 3/42 (2006.01) H03K 5/14 (2014.01)**
[25] EN
[54] **OPTOELECTRONIC OSCILLATOR WITH TUNABLE FILTER**
[54] **OSCILLATEUR OPTOELECTRONIQUE A FILTRE REGLABLE**
[72] NICHOLLS, CHARLES WILLIAM TREMLETT, CA
[73] NANOWAVE TECHNOLOGIES INC., CA
[85] 2018-02-20
[86] 2016-08-19 (PCT/CA2016/050975)
[87] (WO2017/031575)
[30] US (62/208,111) 2015-08-21
[30] US (62/356,900) 2016-06-30

[11] **2,997,305**
[13] C

[51] **Int.Cl. E04F 21/16 (2006.01) E04F 19/04 (2006.01)**
[25] EN
[54] **METHOD OF BIASING A DRYWALL CORNER FLUSHER AND A DRYWALL CORNER FLUSHER**
[54] **METHODE D'INCLINAISON D'UN DISPOSITIF D'AFFLEUREMENT DE COIN DE CLOISON SECHE ET UN DISPOSITIF D'AFFLEUREMENT DE COIN DE CLOISON SECHE**
[72] ROGERS, JAMES W., CA
[73] CAN-AM TOOL CORP., CA
[86] (2997305)
[87] (2997305)
[22] 2018-03-05

[11] **2,995,720**
[13] C

[51] **Int.Cl. C22C 38/14 (2006.01) C21D 8/02 (2006.01) C22C 38/04 (2006.01) C22C 38/12 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01)**
[25] EN
[54] **ALUMINIUM-ZINC-HOT-DIPPED AND COLOUR-COATED STEEL PLATE HAVING A 600 MPA YIELD STRENGTH GRADE AND A HIGH ELONGATION AND MANUFACTURING METHOD THEREOF**
[54] **TOLE D'ACIER PORTANT UN REVETEMENT COLORE D'ALUMINIUM-ZINC FORME PAR IMMERSION A CHAUD HAUTEMENT ETIRABLE AYANT UNE LIMITE D'ELASTICITE CONVENTIONNELLE AU NIVEAU DE 600 MPA ET PRO CEDE DE FABRICATION S'Y RAPPORTANT**
[72] LI, JUN, CN
[72] XU, DECHAO, CN
[72] MU, HAILING, CN
[72] ZHAO, YUSHENG, CN
[72] LIU, YUNFENG, CN
[73] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2018-02-15
[86] 2016-07-25 (PCT/CN2016/091500)
[87] (WO2017/036261)
[30] CN (201510540657.1) 2015-08-28

[11] **2,996,251**
[13] C

[51] **Int.Cl. G01D 5/353 (2006.01) G01B 11/16 (2006.01) G01L 1/24 (2006.01)**
[25] EN
[54] **SENSOR PATCH AND METHOD FOR PRODUCING A SENSOR PATCH**
[54] **PATCH DE DETECTION ET PROCEDE DE FABRICATION D'UN PATCH DE DETECTION**
[72] MULLER, MATHIAS, DE
[72] ZELENKA, FABIAN, DE
[73] FOS4X GMBH, DE
[85] 2018-02-21
[86] 2016-09-20 (PCT/EP2016/072308)
[87] (WO2017/050766)
[30] DE (10 2015 115 927.9) 2015-09-21

[11] **2,997,976**
[13] C

[51] **Int.Cl. B30B 9/04 (2006.01)**
[25] EN
[54] **ROSIN PRESS SYSTEM**
[54] **SYSTEME DE PRESSE COLOPHANE**
[72] SITNIK, SPENCER, US
[73] SITNIK, SPENCER, US
[86] (2997976)
[87] (2997976)
[22] 2018-03-12
[30] US (62/528,962) 2017-07-05
[30] US (62/469,688) 2017-03-10

[11] **2,998,504**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 31/00 (2006.01) A61P 25/18 (2006.01)**
[25] EN
[54] **SUSTAINED RELEASE OLANZAPINE FORMULATIONS**
[54] **FORMULATIONS D'OLANZAPINE A LIBERATION PROLONGEE**
[72] SMITH, MARK ALAN, US
[72] CLAASSEN-PUNT, CARINE, NL
[73] TEVA PHARMACEUTICALS INTERNATIONAL GMBH, CH
[85] 2018-03-12
[86] 2016-09-21 (PCT/US2016/052757)
[87] (WO2017/053346)
[30] US (62/221,290) 2015-09-21

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[11] **3,000,481**
[13] C

[51] **Int.Cl. H01M 8/04089 (2016.01) H01M 8/0438 (2016.01) H01M 8/04746 (2016.01) H01M 8/124 (2016.01) B01L 1/02 (2006.01)**

[25] FR

[54] **SYSTEM FOR ELECTROLYSING WATER (SOEC) OR FUEL-CELL STACK (SOFC) OPERATING UNDER PRESSURE, THE REGULATION OF WHICH IS IMPROVED.**

[54] **SYSTEME D'ELECTROLYSE DE L'EAU (SOEC) OU PILE A COMBUSTIBLE (SOFC) A FONCTIONNEMENT SOUS PRESSION DONT LA REGULATION EST AMELIOREE**

[72] CHATROUX, ANDRE, FR
[72] GOUSSEAU, GEORGES, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2018-03-28
[86] 2016-10-05 (PCT/EP2016/073727)
[87] (WO2017/060267)
[30] FR (15 59504) 2015-10-06

[11] **3,000,632**
[13] C

[51] **Int.Cl. C25B 1/26 (2006.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01) C25B 15/08 (2006.01) C02F 1/44 (2006.01) C02F 1/461 (2006.01)**

[25] EN

[54] **ELECTROLYTIC PRODUCTION OF HALOGEN BASED DISINFECTANT SOLUTIONS FROM WATERS CONTAINING HALIDES AND AMMONIA PRODUCTION**

[54] **ELECTROLYTIQUE DE SOLUTIONS DESINFECTANTES A BASE D'HALOGENE A PARTIR D'EAUX CONTENANT DES HALOGENURES ET DE L'AMMONIAQUE**

[72] BOAL, ANDREW KISKADDEN, US
[72] SANCHEZ, JUSTIN, US
[72] SANTILLANES, MATTHEW RONALD, US

[73] DE NORA HOLDINGS US, INC, US

[85] 2018-03-29
[86] 2016-10-06 (PCT/GB2016/053106)
[87] (WO2017/060703)
[30] US (62/237,959) 2015-10-06
[30] US (62/348,106) 2016-06-09

[11] **3,000,748**
[13] C

[51] **Int.Cl. F28D 1/047 (2006.01) B65D 81/38 (2006.01) F16L 59/00 (2006.01) F25D 17/02 (2006.01)**

[25] EN

[54] **MULTILAYER THERMAL SHIELD COMPRISING AN INTEGRATED FLUID CIRCUIT**

[54] **PROTECTION THERMIQUE MULTICOUCHE COMPRENANT UN CIRCUIT DE FLUIDE INTEGRE**

[72] GOLDSTEIN, VLADIMIR, CA
[72] CORY, ROSA, CA
[72] DO, BENNY, CA
[73] SUNWELL ENGINEERING COMPANY LIMITED, CA

[85] 2018-04-03
[86] 2015-10-02 (PCT/CA2015/050993)
[87] (WO2016/049773)
[30] US (62/059,549) 2014-10-03

[11] **3,001,053**
[13] C

[51] **Int.Cl. C07D 277/72 (2006.01)**

[25] EN

[54] **PREPARATION METHOD OF 2-MERCAPTOBENZOTHIAZOLE**

[54] **METHODE DE PREPARATION DE 2-MERCAPTOBENZOTHIAZOLE**

[72] CHEN, XINMIN, CN
[72] WU, LIBAO, CN
[72] SHI, SONG, CN
[72] GAO, SHANG, CN
[73] SENNICS CO., LTD., CN

[85] 2018-04-05
[86] 2015-11-02 (PCT/CN2015/093613)
[87] (WO2017/059614)
[30] CN (201510649388.2) 2015-10-09

[11] **3,001,157**
[13] C

[51] **Int.Cl. C07C 31/125 (2006.01) C07F 9/145 (2006.01)**

[25] EN

[54] **IMPROVED PRODUCTION OF 2-PROPYLHEPTANOL**

[54] **PRODUCTION AMELIOREE DE 2-PROPYLHEPTANOL**

[72] DYBALLA, KATRIN MARIE, DE
[72] FRANKE, ROBERT, DE
[72] FRIDAG, DIRK, DE
[72] SCHWARZ, MARKUS, DE
[72] SCHULTE-ALTHOFF, HERMANN-JOSEF, DE

[72] GEILEN, FRANK, DE
[73] EVONIK OPERATIONS GMBH, DE

[85] 2018-04-06
[86] 2016-08-02 (PCT/EP2016/068375)
[87] (WO2017/080690)
[30] EP (15193607.7) 2015-11-09

[11] **3,001,977**
[13] C

[51] **Int.Cl. C07K 14/71 (2006.01) A61K 38/17 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING FUSION PROTEIN HAVING IGG FC DOMAIN**

[54] **PROCEDE DE PRODUCTION DE PROTEINE DE FUSION PRESENTANT UN DOMAINE FC D'IGG**

[72] PARK, SOON JAE, KR
[72] CHUNG, HYE SHIN, KR
[72] YOU, SUN AH, KR
[72] CHO, JEONG SOO, KR
[73] ALTEOGEN, INC., KR

[85] 2018-04-13
[86] 2016-10-14 (PCT/KR2016/011561)
[87] (WO2017/065559)
[30] KR (10-2015-0144330) 2015-10-15
[30] KR (10-2016-0132633) 2016-10-13

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[11] **3,001,991**
[13] C

- [51] **Int.Cl. B64C 25/60 (2006.01) F16F 9/06 (2006.01) F16F 9/16 (2006.01)**
[25] EN
[54] **AIRCRAFT LANDING GEAR SHOCK ABSORBING STRUT**
[54] **JAMBE ANTICHOE DE TRAIN D'ATTERISSAGE D'UN AERONEF**
[72] URBINATI, SIMONE, GB
[72] HILLIARD, MATT, GB
[72] SMITH, JON, GB
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB
[86] (3001991)
[87] (3001991)
[22] 2018-04-17
[30] EP (17167424.5) 2017-04-20

[11] **3,002,325**
[13] C

- [51] **Int.Cl. B60W 20/40 (2016.01) B62M 6/55 (2010.01) B62M 9/04 (2006.01)**
[25] EN
[54] **AN ENERGY HARVESTING POWER-ASSIST SYSTEM AND METHOD FOR LIGHT VEHICLES**
[54] **PROCEDE ET SYSTEME D'ASSISTANCE DE PUISSANCE A COLLECTE D'ENERGIE POUR VEHICULES LEGERES**
[72] LIS, GUSTAVO ADRIAN, CA
[72] LIS, FABIAN, US
[73] LIS, GUSTAVO ADRIAN, CA
[73] LIS, FABIAN, US
[85] 2018-04-16
[86] 2016-11-06 (PCT/US2016/060744)
[87] (WO2017/079709)
[30] US (62/252,568) 2015-11-08

[11] **3,002,607**
[13] C

- [51] **Int.Cl. A47L 13/16 (2006.01) A47L 17/00 (2006.01)**
[25] EN
[54] **CLEANING ARTICLE HAVING AN ABSORBENT BASE MATERIAL AND COATING LINES**
[54] **ARTICLE DE NETTOYAGE AYANT UN MATERIAU DE BASE ABSORBANT ET DES LIGNES DE REVETEMENT**
[72] MANGOLD, RAINER, DE
[72] ROEMPP, ANGELA, DE
[72] ARKHIPOVA, MARIA, DE
[73] CMC CONSUMER MEDICAL CARE GMBH, DE
[85] 2018-04-19
[86] 2016-11-11 (PCT/EP2016/077484)
[87] (WO2017/081287)
[30] EP (15194394.1) 2015-11-12

[11] **3,002,991**
[13] C

- [51] **Int.Cl. F01D 17/08 (2006.01) F02C 9/00 (2006.01) F04D 27/00 (2006.01)**
[25] EN
[54] **TURBINE ENGINE COMPRESSOR WITH A TURBULENCE SENSOR**
[54] **COMPRESSEUR DE TURBINE DOTE D'UN CAPTEUR DE TURBULENCE**
[72] HIERNAUX, STEPHANE, BE
[73] SAFRAN AERO BOOSTERS SA, BE
[86] (3002991)
[87] (3002991)
[22] 2018-04-27
[30] BE (BE 2017/5316) 2017-05-05

[11] **3,003,096**
[13] C

- [51] **Int.Cl. A23D 7/005 (2006.01) A23D 7/015 (2006.01) A23D 7/02 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING FAT CONTINUOUS EMULSIONS LOW IN FAT**
[54] **PROCEDE DE PREPARATION D'EMULSIONS A PHASE HUILEUSE CONTINUE PAUVRES EN MATIERES GRASSES**
[72] DE MAN, TEUNIS, NL
[72] MEEUSE, FREDERIK MICHIEL, NL
[73] UPFIELD EUROPE B.V., NL
[85] 2018-04-24
[86] 2016-11-08 (PCT/EP2016/076921)
[87] (WO2017/084910)
[30] EP (15195619.0) 2015-11-20

[11] **3,004,220**
[13] C

- [51] **Int.Cl. A23L 33/105 (2016.01) A23L 5/43 (2016.01) A23L 27/10 (2016.01) A61K 31/121 (2006.01) A61K 36/9066 (2006.01)**
[25] EN
[54] **MIXTURE OF STABILISED BIOLOGICALLY AVAILABLE CURCUMIN FOR ORODISPERSIBLE FORMULATIONS, FORMULATIONS OF BIOLOGICALLY AVAILABLE CURCUMIN, AND A ORODISPERSIBLE TABLET WITH BIOLOGICALLY AVAILABLE CURCUMIN AND ITS APPLICATION**
[54] **MELANGE DE CURCUMINE DISPONIBLE STABILISE BIOLOGIQUEMENT DESTINE A DES FORMULATIONS DISPERSIBLES, FORMULATIONS DE CURCUMINE DISPONIBLE BIOLOGIQUEMENT ET COMPRIME ORODISPERSIBLE COMPORTANT DE LA CURCUMINE DISPONIBLE BIOLOGIQUEMENT ET SON APPLICATION**
[72] STONIS, JAN, CZ
[72] MIKES, IVAN, CZ
[72] DOLEZALOVA, ANDREA, CZ
[72] KRALOVA, JARMILA, CZ
[72] JAKUBEK, MILAN, CZ
[72] MARTASEK, PAVEL, CZ
[72] KRAL, VLADIMIR, CZ
[73] MCEPHARMA S.R.O., CS
[73] IMCOPHARMA A.S., CZ
[86] (3004220)
[87] (3004220)
[22] 2018-05-07
[30] CZ (PV 2017-260) 2017-05-08

[11] **3,004,594**
[13] C

- [51] **Int.Cl. G06N 5/00 (2023.01) G06F 16/00 (2019.01)**
[25] EN
[54] **CAUSE BACKTRACING METHOD**
[54] **PROCEDE DE TRACAGE DE RAISON**
[72] ZHANG, BIN, CN
[73] ZHANG, BIN, CN
[85] 2018-05-07
[86] 2016-10-18 (PCT/CN2016/102358)
[87] (WO2017/084460)
[30] CN (201510796421.4) 2015-11-18

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[11] **3,006,337**
[13] C

[51] **Int.Cl. D21H 21/40 (2006.01) B42D 25/29 (2014.01) B42D 25/342 (2014.01) B42D 25/355 (2014.01) D21H 21/42 (2006.01)**

[25] FR

[54] **SECURITY DOCUMENT AND ELEMENT**

[54] **ELEMENT ET DOCUMENT DE SECURITE**

[72] GILLOT, JULIEN, FR

[72] CHAPEAU, GUILLAUME, FR

[72] BORDE, XAVIER, FR

[73] OBERTHUR FIDUCIAIRE SAS, FR

[85] 2018-05-24

[86] 2016-11-29 (PCT/EP2016/079132)

[87] (WO2017/093250)

[30] FR (1561635) 2015-12-01

[11] **3,006,541**
[13] C

[51] **Int.Cl. C07C 211/27 (2006.01) A61K 31/495 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) A61K 31/505 (2006.01) A61P 7/00 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 25/28 (2006.01) A61P 29/00 (2006.01) A61P 33/06 (2006.01) A61P 35/00 (2006.01) C07C 211/50 (2006.01) C07C 211/54 (2006.01) C07D 207/06 (2006.01) C07D 213/36 (2006.01) C07D 239/26 (2006.01) C07D 249/08 (2006.01) C07D 271/10 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING DISEASES AND CONDITIONS**

[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DE MALADIES ET D'ETATS PATHOLOGIQUES**

[72] CHEN, BEIBEI, US

[72] MALLAMPALLI, RAMA K., US

[73] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US

[73] THE UNITED STATES GOVERNMENT AS REPRESENTED BY THE DEPARTMENT OF VETERANS AFFAIRS, US

[85] 2018-05-28

[86] 2015-12-10 (PCT/US2015/065000)

[87] (WO2016/094659)

[30] US (62/090,309) 2014-12-10

[11] **3,008,350**
[13] C

[51] **Int.Cl. G08C 17/02 (2006.01) E05F 15/77 (2015.01) H04B 1/16 (2006.01)**

[25] EN

[54] **UNIVERSAL RADIO RECEIVER APPARATUS AND METHOD**

[54] **APPAREIL RECEPTEUR RADIO UNIVERSEL ET METHODE**

[72] BURROUGHS, MICHAEL A., US

[72] GRINTER, THOMAS J., US

[72] STAUB, CHRISTOPHER J., US

[73] THE CHAMBERLAIN GROUP LLC, US

[86] (3008350)

[87] (3008350)

[22] 2018-06-15

[30] US (15/634,702) 2017-06-27

[11] **3,008,466**
[13] C

[51] **Int.Cl. A61K 38/48 (2006.01) A61P 39/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREVENTING OR TREATING RADIATION AND CHEMICAL DAMAGE**

[54] **METHODE DE PREVENTION OU DE TRAITEMENT DES RADIOLESIONS ET DES LESIONS CHIMIQUES**

[72] LI, JINAN, CN

[73] LANGEN INTERNATIONAL LIMITED, CN

[85] 2018-06-14

[86] 2016-12-16 (PCT/CN2016/110455)

[87] (WO2017/101873)

[30] CN (PCT/CN2015/097949) 2015-12-18

[11] **3,008,722**
[13] C

[51] **Int.Cl. A61K 31/7008 (2006.01) A23K 20/163 (2016.01) A23K 40/20 (2016.01) A23L 33/125 (2016.01) A23P 10/28 (2016.01) A23P 30/10 (2016.01) A61K 9/20 (2006.01)**

[25] EN

[54] **EXCIPIENT FREE GLUCOSAMINE TABLETS AND METHOD OF MAKING**

[54] **COMPRIMES DE GLUCOSAMINE EXEMPTS D'EXCIPIENT ET PROCEDE DE FABRICATION**

[72] WREN, BRANDON, CA

[72] WASSENAAR, WILLEM, CA

[73] PUREPHARM INC., CA

[86] (3008722)

[87] (3008722)

[22] 2018-06-19

[11] **3,008,753**
[13] C

[51] **Int.Cl. A61K 9/12 (2006.01) A61K 31/573 (2006.01) A61K 47/10 (2017.01) A61K 47/44 (2017.01)**

[25] EN

[54] **HALOBETASOL FOAM COMPOSITION AND METHOD OF USE THEREOF**

[54] **COMPOSITION DE MOUSSE D'HALOBETASOL ET PROCEDE D'UTILISATION**

[72] GAUTHIER, ROBERT T., US

[72] HAMMER, JAMES D., US

[73] THERAPEUTICS INC., US

[85] 2018-06-15

[86] 2016-11-30 (PCT/IB2016/057227)

[87] (WO2017/103719)

[30] US (62/267,749) 2015-12-15

[11] **3,012,710**
[13] C

[51] **Int.Cl. C02F 1/52 (2006.01) B01D 21/01 (2006.01) B01D 21/02 (2006.01) B01D 21/24 (2006.01) B01D 25/12 (2006.01) B01D 37/03 (2006.01) C02F 1/00 (2006.01) C02F 1/28 (2006.01) C02F 1/44 (2006.01) C02F 11/12 (2019.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR WASTE AND WATER TREATMENT**

[54] **APPAREIL ET PROCEDE DE TRAITEMENT DES EAUX USEES**

[72] STRAATMANS, TIM, AU

[73] STRAATMANS HOLDING COMPANY PTY LTD ACN 102 598 729, AU

[85] 2018-07-26

[86] 2017-01-27 (PCT/AU2017/000012)

[87] (WO2017/127866)

[30] AU (2016900257) 2016-01-28

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[11] **3,013,057**
[13] C

[51] **Int.Cl. G01C 21/34 (2006.01) G08G 1/00 (2006.01) G08G 1/09 (2006.01)**

[25] EN

[54] **DESIGNING PREFERRED VEHICLE ROUTES BASED ON DRIVING SCORES FROM OTHER VEHICLES**

[54] **CONCEPTION D'ITINERAIRES PREFERES POUR VEHICULES SUR LA BASE DE SCORES DE CONDUITE ISSUS D'AUTRES VEHICULES**

[72] FERGUSON, DANA, US

[73] ALLSTATE INSURANCE COMPANY, US

[85] 2018-07-27

[86] 2017-02-01 (PCT/US2017/015949)

[87] (WO2017/136391)

[30] US (15/013,733) 2016-02-02

[11] **3,013,367**
[13] C

[51] **Int.Cl. F17C 1/06 (2006.01) F17C 1/16 (2006.01)**

[25] EN

[54] **VENTED FITTING FOR PRESSURE VESSEL BOSS**

[54] **RACCORD VENTILE POUR BOSSAGE DE RECIPIENT SOUS PRESSION**

[72] YEGGY, BRIAN, US

[72] BYERLY, DUANE V., US

[73] HEXAGON TECHNOLOGY AS, NO

[85] 2018-07-31

[86] 2017-03-16 (PCT/US2017/022655)

[87] (WO2017/161085)

[30] US (62/308,945) 2016-03-16

[11] **3,014,391**
[13] C

[51] **Int.Cl. B63H 5/125 (2006.01) B63H 20/12 (2006.01) B63H 25/30 (2006.01)**

[25] EN

[54] **STEERING SYSTEM, AZIMUTHING PROPULSION SYSTEM, AND METHOD FOR ABSORBING HEAT**

[54] **SYSTEME DE DIRECTION, SYSTEME DE PROPULSION ORIENTABLE EN AZIMUT, ET PROCEDE D'ABSORPTION DE CHALEUR**

[72] VIHTANEN, HANNU, FI

[72] UUSITALO, JUKKA-PEKKA, FI

[72] WESTERLUND, SUVI, FI

[73] ABB OY, FI

[85] 2018-08-13

[86] 2016-02-26 (PCT/FI2016/050122)

[87] (WO2017/144767)

[11] **3,014,492**
[13] C

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

[25] EN

[54] **CONTAINER CONSISTING OF PLASTIC MATERIAL, AND METHOD FOR PRODUCING A CONTAINER OF THIS TYPE**

[54] **CONTENANT EN MATIERE PLASTIQUE ET PROCEDE DE FABRICATION DE CE CONTENANT**

[72] SPALLEK, MICHAEL, DE

[72] GESER, JOHANNES, DE

[72] HAMMER, ALEXANDER, DE

[72] SCHRECKENHOFER, MANFRED, DE

[72] GROH, MARTIN, DE

[73] KOCHER-PLASTIK MASCHINENBAU GMBH, DE

[85] 2018-08-14

[86] 2017-02-10 (PCT/EP2017/000191)

[87] (WO2017/148570)

[30] DE (10 2016 002 467.4) 2016-02-29

[11] **3,015,114**
[13] C

[51] **Int.Cl. A63B 47/00 (2006.01) A63B 47/02 (2006.01)**

[25] EN

[54] **DUAL FUNCTIONAL ROBOT AND STORAGE BIN**

[54] **ROBOT A DOUBLE FONCTION ET BENNE DE STOCKAGE**

[72] ELETRABI, HAITHAM, US

[73] TENNIBOT INC., US

[85] 2018-08-17

[86] 2016-02-23 (PCT/US2016/019159)

[87] (WO2016/138012)

[30] US (62/120,855) 2015-02-25

[30] US (62/210,461) 2015-08-27

[30] US (14/985,020) 2015-12-30

[11] **3,015,565**
[13] C

[51] **Int.Cl. F16C 3/035 (2006.01) B64C 25/60 (2006.01) F16C 33/04 (2006.01) F16C 35/02 (2006.01) F16F 9/36 (2006.01) F16J 1/02 (2006.01)**

[25] EN

[54] **TELESCOPIC DEVICE**

[54] **DISPOSITIF TELESCOPIQUE**

[72] HILLIARD, MATTHEW, GB

[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB

[86] (3015565)

[87] (3015565)

[22] 2018-08-27

[30] EP (17189451.2) 2017-09-05

[11] **3,016,136**
[13] C

[51] **Int.Cl. G01N 21/01 (2006.01) E21B 25/00 (2006.01) G01B 11/30 (2006.01) G01N 1/08 (2006.01) G01N 33/24 (2006.01) G01V 8/02 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ANALYZING DRILL CORE SAMPLES**

[54] **SYSTEME ET PROCEDE D'ANALYSE D'ECHANTILLONS DE CAROTTE DE SONDAGE**

[72] ARTURSSON, MIKAEL, SE

[72] SJOQVIST, AXEL, SE

[73] MINALYZE AB, SE

[85] 2018-08-29

[86] 2017-03-06 (PCT/SE2017/050205)

[87] (WO2017/155450)

[30] SE (1630051-9) 2016-03-05

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[11] **3,018,526**
[13] C

[51] **Int.Cl. G06F 21/62 (2013.01)**
[25] EN
[54] **CRYPTOGRAPHIC UNIT FOR PUBLIC KEY INFRASTRUCTURE (PKI) OPERATIONS**
[54] **UNITE CRYPTOGRAPHIQUE POUR OPERATIONS D'INFRASTRUCTURE A CLE PUBLIQUE (PKI)**
[72] NIX, JOHN A., US
[73] HUAWEI DEVICE CO., LTD., CN
[85] 2018-09-20
[86] 2016-05-18 (PCT/US2016/033096)
[87] (WO2016/191176)
[30] US (62/165,317) 2015-05-22

[11] **3,019,434**
[13] C

[51] **Int.Cl. G09B 9/00 (2006.01) G09B 9/02 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEMS FOR REMOVING THE MOST EXTRANEIOUS DATA RECORD FROM A REMOTE REPOSITORY**
[54] **PROCEDE ET SYSTEMES PERMETTANT D'ELIMINER L'ENREGISTREMENT DE DONNEES LE PLUS SUPERFLU DANS UN REFERENTIEL DISTANT**
[72] EMOND, SEBASTIEN, CA
[72] GAUTHIER, ALEXANDRE, CA
[72] LAGACE, MICHEL, CA
[73] CAE INC., CA
[85] 2018-09-28
[86] 2016-03-31 (PCT/CA2016/000097)
[87] (WO2017/165947)

[11] **3,019,504**
[13] C

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/00 (2006.01) A01N 31/16 (2006.01) A01N 35/02 (2006.01)**
[25] EN
[54] **BEEES ATTRACTING AND BEE TRANQUILIZING COMPOSITION AND THEIR USE IN AGRICULTURE, HORTICULTURE AND APICULTURE**
[54] **COMPOSITION D'ATTRACTION DES ABEILLES ET DE TRANQUILLISATION DES ABEILLES ET SON UTILISATION EN AGRICULTURE, HORTICULTURE ET APICULTURE**
[72] SWIETOSLAWSKI, JANUSZ, PL
[72] WIECZOREK, WOJCIECH, PL
[73] ICB PHARMA SPOLKA JAWNA, PL
[85] 2018-09-28
[86] 2016-04-19 (PCT/PL2016/000043)
[87] (WO2017/183998)

[11] **3,020,027**
[13] C

[51] **Int.Cl. G06Q 40/08 (2012.01) G06T 7/00 (2017.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REMOTELY INDICATING VEHICULAR DAMAGE**
[54] **SYSTEME ET PROCEDE POUR INDIQUER A DISTANCE LES DOMMAGES AUX VEHICULES**
[72] KURUVILLA, DENNY DEVASIA, CA
[72] GJINI, ESLI, CA
[72] REEVE, SARAH, CA
[72] PANAJ, HARJOT SINGH, CA
[72] SETO, JUSTIN, CA
[72] FETH, NAOMI SARAH, CA
[72] THAKUR, ANURAG, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (3020027)
[87] (3020027)
[22] 2018-10-05

[11] **3,020,253**
[13] C

[51] **Int.Cl. A61M 60/135 (2021.01) A61M 60/419 (2021.01)**
[25] EN
[54] **CATHETER DEVICE**
[54] **MECANISME DE CATHETER**
[72] PFEFFER, JOACHIM GEORG, DE
[72] SCHMITZ-RODE, THOMAS, DE
[72] GUNTHER, ROLF W., DE
[73] AIS GMBH AACHEN INNOVATIVE SOLUTIONS, DE
[86] (3020253)
[87] (3020253)
[22] 2008-08-27
[62] 2,701,809
[30] EP (07019658.9) 2007-10-08

[11] **3,020,845**
[13] C

[51] **Int.Cl. G06F 16/583 (2019.01) G06T 7/44 (2017.01)**
[25] EN
[54] **CONTENT BASED SEARCH AND RETRIEVAL OF TRADEMARK IMAGES**
[54] **RECHERCHE ET RECUPERATION BASEES SUR LE CONTENU D'IMAGES DE MARQUES COMMERCIALES**
[72] ALBAYRAK, ABDULKADIR, TR
[72] KARSLIGIL, M. ELIF, TR
[72] SIGIRCI, I. ONUR, TR
[73] ADER BILGISAYAR HIZMETLERI VE TICARET A.S., TR
[85] 2018-10-12
[86] 2016-04-14 (PCT/TR2016/050111)
[87] (WO2017/180072)

[11] **3,021,131**
[13] C

[51] **Int.Cl. C22C 21/00 (2006.01) C22F 1/043 (2006.01)**
[25] EN
[54] **CAST ALLOY**
[54] **ALLIAGE DE FONDERIE**
[72] WIESNER, STUART, CH
[73] RHEINFELDEN ALLOYS GMBH & CO. KG, DE
[85] 2018-10-15
[86] 2016-05-02 (PCT/EP2016/059724)
[87] (WO2017/182103)
[30] EP (16165976.8) 2016-04-19

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[11] **3,021,551**
[13] C

[51] **Int.Cl. H01Q 1/44 (2006.01) H04N 21/426 (2011.01) F21V 33/00 (2006.01) F21V 23/00 (2015.01) H01Q 21/00 (2006.01)**

[25] EN

[54] **INDOOR OVER THE AIR ANTENNA SYSTEMS**

[54] **SYSTEMES D'ANTENNE A LIAISON RADIO D'INTERIEUR**

[72] PETRUZZELLI, EDMUND, US

[72] MINNICK, DANNY J., US

[73] DISH TECHNOLOGIES L.L.C., US

[85] 2018-10-18

[86] 2017-04-25 (PCT/US2017/029393)

[87] (WO2017/192308)

[30] US (62/330,714) 2016-05-02

[30] US (15/200,792) 2016-07-01

[11] **3,021,751**
[13] C

[51] **Int.Cl. F16L 11/12 (2006.01) F16L 11/10 (2006.01) F16L 11/20 (2006.01)**

[25] EN

[54] **ENLARGEABLE FLEXIBLE HOSE**

[54] **TUYAU FLEXIBLE POUVANT ETRE AGRANDI**

[72] MEZZALIRA, ALESSANDRO, IT

[72] VIGOLO, VALENTINO, IT

[72] BATTAGLIA, LUCA, IT

[72] PETRONILLI, ANDREA, IT

[72] BUCCI, MARCO, IT

[72] CEGALIN, ALESSANDRO, IT

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

[85] 2018-10-22

[86] 2016-04-29 (PCT/IB2016/052435)

[87] (WO2017/187233)

[11] **3,022,470**
[13] C

[51] **Int.Cl. C09D 191/06 (2006.01) C09D 5/02 (2006.01) C09D 175/00 (2006.01) C09D 175/04 (2006.01) C09D 191/00 (2006.01)**

[25] EN

[54] **SCUFF RESISTANT ARCHITECTURAL COMPOSITIONS**

[54] **COMPOSITIONS ARCHITECTURALES RESISTANTES A L'ABRASION**

[72] DUGAN, JONATHAN, US

[72] AGENS, ASHLEE, US

[72] AMENT, ED, US

[72] COOPER, GLENN, US

[72] GARCIA, JOHANNA, US

[72] HOOD, JEFF, US

[72] LEE, KEVIN, US

[72] O'CONNOR, KATE, US

[72] SAAD, ROGINA, US

[72] SATURNE, MARIE, US

[72] SPILLANE, JEFF, US

[73] BENJAMIN MOORE & CO., US

[85] 2018-10-26

[86] 2017-05-05 (PCT/US2017/031287)

[87] (WO2017/192982)

[30] US (62/332,907) 2016-05-06

[11] **3,024,391**
[13] C

[51] **Int.Cl. B60T 13/38 (2006.01) B60T 13/24 (2006.01) B60T 13/26 (2006.01) B60T 15/02 (2006.01) B60T 17/08 (2006.01) F16D 65/14 (2006.01)**

[25] EN

[54] **SPRING BRAKE ACTUATOR WITH DIAPHRAGM RETAINER**

[54] **ACTIONNEUR DE FREIN A RESSORT A FIXATION DE DIAPHRAGME**

[72] KOELZER, ROBERT L., US

[72] FISHER, ALBERT D., US

[72] BRADFORD, AARON C., US

[72] RHOADS, DAVID C., US

[72] JENKINS, MICHAEL R., US

[73] HALDEX BRAKE PRODUCTS CORPORATION, US

[85] 2018-11-15

[86] 2016-05-20 (PCT/US2016/033475)

[87] (WO2017/200550)

[11] **3,024,521**
[13] C

[51] **Int.Cl. A61K 38/12 (2006.01) A61K 9/12 (2006.01) A61K 9/14 (2006.01) A61K 9/72 (2006.01) A61P 11/00 (2006.01) C07K 7/64 (2006.01) C07K 14/81 (2006.01)**

[25] EN

[54] **BETA-HAIRPIN PEPTIDOMIMETIC WITH ELASTASE INHIBITORY ACTIVITY AND AEROSOL DOSAGE FORMS THEREOF**

[54] **PEPTIDOMIMETIQUE EN EPINGLE A CHEVEUX BETA PRESENTANT UNE ACTIVITE D'INHIBITION DE L'ELASTASE ET FORMES PHARMACEUTIQUES AEROSOLS CORRESPONDANTES**

[72] LUDIN, CHRISTIAN, CH

[72] KELLER, MANFRED, DE

[73] SPEXIS AG, CH

[85] 2018-11-16

[86] 2017-05-31 (PCT/EP2017/025156)

[87] (WO2017/207117)

[30] EP (16020210.7) 2016-05-31

[11] **3,024,780**
[13] C

[51] **Int.Cl. C12P 7/46 (2006.01) C12N 1/00 (2006.01) C12P 7/56 (2006.01)**

[25] EN

[54] **METHOD FOR SEPARATING BIOMASS FROM SOLID FERMENTATION PRODUCT**

[54] **PROCEDE DE SEPARATION DE BIOMASSE D'UN PRODUIT DE FERMENTATION SOLIDE**

[72] BOKHOVE, JEROEN, NL

[72] DE HAAN, ANDRE BANIER, NL

[72] GROOT, WILLEM JACOB, NL

[73] PURAC BIOCHEM BV, NL

[85] 2018-11-19

[86] 2017-05-29 (PCT/EP2017/062919)

[87] (WO2017/207501)

[30] EP (16172032.1) 2016-05-30

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[11] **3,026,712**
[13] C

[51] **Int.Cl. G06F 16/583 (2019.01) G06V 10/94 (2022.01) G06V 20/52 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DISTRIBUTED INTELLIGENT PATTERN RECOGNITION**
[54] **SYSTEME ET PROCEDE DE RECONNAISSANCE DE FORMES INTELLIGENTE DISTRIBUEE**
[72] MAZZARELLA, JOSEPH R., US
[72] WENGROVITZ, MICHAEL S., US
[73] MUTUALINK, INC., US
[85] 2018-12-05
[86] 2017-05-31 (PCT/US2017/035261)
[87] (WO2017/213932)
[30] US (62/346,062) 2016-06-06
[30] US (15/491,257) 2017-04-19

[11] **3,029,624**
[13] C

[51] **Int.Cl. B65G 17/08 (2006.01) B65G 21/18 (2006.01)**
[25] EN
[54] **DIRECT-DRIVE SPIRAL CONVEYOR**
[54] **TRANSPORTEUR EN SPIRALE A ENTRAINEMENT DIRECT**
[72] COTO, OSCAR R., US
[73] LAITRAM, L.L.C., US
[85] 2018-12-28
[86] 2017-06-30 (PCT/US2017/040451)
[87] (WO2018/026454)
[30] US (15/224,809) 2016-08-01

[11] **3,029,963**
[13] C

[51] **Int.Cl. H04B 1/74 (2006.01) H04W 24/04 (2009.01) H04W 88/00 (2009.01) H04B 7/185 (2006.01)**
[25] EN
[54] **RELIABLE, MAINTENANCE-FREE RADIO-FREQUENCY HARDWARE ARCHITECTURE**
[54] **ARCHITECTURE DE MATERIEL DE FREQUENCE RADIO FIABLE, SANS MAINTENANCE**
[72] MACANLIS, STEPHEN A., US
[72] ALONGI, ANTHONY C., US
[73] THE BOEING COMPANY, US
[86] (3029963)
[87] (3029963)
[22] 2019-01-14
[30] US (15/877322) 2018-01-22

[11] **3,030,309**
[13] C

[51] **Int.Cl. C07D 213/56 (2006.01) A61K 31/05 (2006.01) A61K 31/137 (2006.01) A61K 31/138 (2006.01) A61K 31/165 (2006.01) A61K 31/167 (2006.01) A61K 31/17 (2006.01) A61K 31/18 (2006.01) A61K 31/192 (2006.01) A61K 31/27 (2006.01) A61K 31/277 (2006.01) A61K 31/341 (2006.01) A61K 31/381 (2006.01) A61K 31/40 (2006.01) A61K 31/4015 (2006.01) A61K 31/4035 (2006.01) A61K 31/404 (2006.01) A61K 31/416 (2006.01) A61K 31/4166 (2006.01) A61K 31/4184 (2006.01) A61K 31/4192 (2006.01) A61K 31/42 (2006.01) A61K 31/421 (2006.01) A61K 31/423 (2006.01) A61K 31/426 (2006.01) A61K 31/428 (2006.01) A61K 31/44 (2006.01) A61K 31/4402 (2006.01) A61K 31/4406 (2006.01) A61K 31/4409 (2006.01) A61K 31/4439 (2006.01) A61K 31/4704 (2006.01) A61K 31/495 (2006.01) A61K 31/497 (2006.01) A61K 31/50 (2006.01) A61K 31/501 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61K 31/7034 (2006.01) A61P 11/00 (2006.01) C07C 311/08 (2006.01) C07D 231/56 (2006.01) C07D 237/08 (2006.01) C07D 239/26 (2006.01) C07D 239/42 (2006.01) C07D 241/12 (2006.01) C07D 263/44 (2006.01) C07D 277/64 (2006.01) C07D 401/10 (2006.01) C07D 403/10 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR THE TREATMENT OF PULMONARY FIBROSIS**
[54] **COMPOSITIONS POUR LE TRAITEMENT D'UNE FIBROSE PULMONAIRE**
[72] DUGGAN, KAREN ANNETTE, AU
[73] VECTUS BIOSYSTEMS LIMITED, AU
[85] 2019-01-09
[86] 2017-07-28 (PCT/AU2017/050784)
[87] (WO2018/018091)
[30] AU (2016902978) 2016-07-28

[25] EN
[54] **COMPOSITIONS FOR THE TREATMENT OF PULMONARY FIBROSIS**
[54] **COMPOSITIONS POUR LE TRAITEMENT D'UNE FIBROSE PULMONAIRE**
[72] DUGGAN, KAREN ANNETTE, AU
[73] VECTUS BIOSYSTEMS LIMITED, AU
[85] 2019-01-09
[86] 2017-07-28 (PCT/AU2017/050784)
[87] (WO2018/018091)
[30] AU (2016902978) 2016-07-28

[11] **3,030,471**
[13] C

[51] **Int.Cl. C11B 1/10 (2006.01) A23K 20/158 (2016.01) A23D 7/00 (2006.01) C11B 1/00 (2006.01) C11B 3/00 (2006.01) C12N 1/06 (2006.01) C12P 7/6427 (2022.01) A61K 31/20 (2006.01)**
[25] EN
[54] **METHOD OF SEPARATING LIPIDS FROM A LYSED LIPIDS CONTAINING BIOMASS**
[54] **PROCEDE DE SEPARATION DE LIPIDES A PARTIR D'UN LIPIDE LYSE CONTENANT DE LA BIOMASSE**
[72] BARZ, MANFRED, DE
[72] BEISER, MARC, DE
[72] BORCHERS, GEORG, DE
[72] CHERINKO, STEPHEN ROBERT, US
[72] DERNEDDE, MATHIAS, DE
[72] DIEHL, MICHAEL, DE
[72] DONG, XIAO DANIEL, US
[72] HABERLAND, JURGEN, DE
[72] JOHNSON, MICHAEL BENJAMIN, US
[72] KERTIS, ROBERT CODY, US
[72] LEBERT, JOCHEN, DE
[72] LEININGER, NEIL FRANCIS, US
[72] MATTHEWS, KIRT LYVELL, SR., US
[72] PFEIFER, HOLGER, DE
[72] RABE, CHRISTIAN, DE
[72] RESOP, SHANNON ELIZABETH ETHIER, US
[72] SHANK, GINGER MARIE, US
[72] TARWADE, VINOD, US
[72] TINSLEY, DAVID ALLEN, US
[72] VERKOEIJEN, DANIEL, US
[73] EVONIK OPERATIONS GMBH, DE
[73] DSM IP ASSETS B.V., NL
[85] 2019-01-10
[86] 2017-07-12 (PCT/EP2017/067585)
[87] (WO2018/011286)
[30] US (62/361,805) 2016-07-13
[30] EP (16189213.8) 2016-09-16

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[11] **3,030,532**
[13] C

[51] **Int.Cl. A61K 38/12 (2006.01) A61K 31/407 (2006.01) A61K 31/7072 (2006.01) A61P 31/06 (2006.01)**

[25] EN

[54] **COMBINATION COMPRISING ZIDOVUDINE AND A CARBAPENEM**

[54] **COMBINAISON COMPRENANT DE LA ZIDOVUDINE ET UN CARBAPENEM**

[72] COATES, ANTHONY, GB

[72] HU, YANMIN, GB

[73] HELPERBY THERAPEUTICS LIMITED, GB

[85] 2019-01-08

[86] 2017-07-11 (PCT/GB2017/052030)

[87] (WO2018/011562)

[30] GB (1612093.3) 2016-07-12

[11] **3,031,120**
[13] C

[51] **Int.Cl. B64C 13/38 (2006.01) G05G 11/00 (2006.01)**

[25] EN

[54] **FLIGHT CONTROL SYSTEMS AND METHODS FOR AN AERIAL VEHICLE**

[54] **SYSTEMES ET METHODES DE CONTROLE DE VOL DESTINES A UN VEHICULE AERIEN**

[72] JOHNSON, MITCHELL, US

[73] THE BOEING COMPANY, US

[86] (3031120)

[87] (3031120)

[22] 2019-01-23

[30] US (15/888957) 2018-02-05

[11] **3,031,274**
[13] C

[51] **Int.Cl. H01B 11/12 (2006.01) H01B 3/44 (2006.01) H01B 11/04 (2006.01)**

[25] EN

[54] **DATA COMMUNICATION CABLE HAVING MODIFIED DELAY SKEW**

[54] **CABLE DE COMMUNICATION DE DONNEES AYANT UNE DIFFERENCE DE TEMPS DE PROPAGATION**

[72] THWAITES, STEPHEN A., US

[72] BROWN, SCOTT M., US

[72] NEW, ANTHONY CARSON, US

[72] MALKEMUS, JAMES D., US

[72] KUSUMA, ROY B., US

[73] GENERAL CABLE TECHNOLOGIES CORPORATION, US

[86] (3031274)

[87] (3031274)

[22] 2019-01-24

[30] US (62/621,234) 2018-01-24

[11] **3,031,844**
[13] C

[51] **Int.Cl. C12N 15/29 (2006.01) A01H 5/00 (2018.01) C07K 14/415 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **FERTILITY RESTORATION GENE IN WHEAT AND USES THEREOF**

[54] **GENE RETABLISSANT LA FERTILITE DU BLE ET UTILISATIONS ASSOCIEES**

[72] MA, LIGENG, CN

[72] WANG, ZHENG, CN

[72] LI, JIAN, CN

[72] HE, HANG, CN

[72] CHEN, SHAOXIA, CN

[72] DENG, XINGWANG, CN

[73] PEKING UNIVERSITY INSTITUTE OF ADVANCED AGRICULTURAL SCIENCES, CN

[73] BEIJING NEXT GENERATION HYBRID WHEAT BIOTECHNOLOGY CO., LTD., CN

[85] 2019-01-24

[86] 2017-07-24 (PCT/CN2017/094012)

[87] (WO2018/019193)

[30] CN (201610588768.4) 2016-07-25

[30] CN (201710599589.5) 2017-07-21

[11] **3,032,655**
[13] C

[51] **Int.Cl. G02B 6/36 (2006.01)**

[25] EN

[54] **MODULAR INTELLIGENT ELECTRONIC DECORATION SYSTEM**

[54] **SYSTEME DE DECORATION ELECTRONIQUE INTELLIGENT MODULAIRE**

[72] DEPHILLIPS, THOMAS, US

[73] DEPHILLIPS, THOMAS, US

[85] 2019-01-31

[86] 2017-05-08 (PCT/US2017/031503)

[87] (WO2018/034714)

[30] US (15/240,740) 2016-08-18

[11] **3,032,885**
[13] C

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/00 (2006.01) A61K 38/08 (2019.01) C07K 14/715 (2006.01)**

[25] EN

[54] **CXCR4 ANTAGONISTS AND METHODS OF USE**

[54] **ANTAGONISTES DE CXCR4 ET METHODES D'UTILISATION**

[72] ZHANG, JUNGE, US

[72] YAN, LIANG ZENG, US

[73] MAINLINE BIOSCIENCES, US

[85] 2019-02-01

[86] 2017-09-05 (PCT/US2017/050106)

[87] (WO2018/048806)

[30] US (62/384,132) 2016-09-06

[30] US (62/505,064) 2017-05-11

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[11] **3,035,369**
[13] C

[51] **Int.Cl. A63B 71/06 (2006.01) A63B 24/00 (2006.01) A61B 5/11 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR MEASURING AN INDIVIDUAL'S ABILITY TO PERFORM A VARYING RANGE OF BARRIER REACHES**

[54] **PROCEDE ET APPAREIL POUR MESURER LA CAPACITE D'UN INDIVIDU A EFFECTUER UNE PLAGE VARIABLE D'ACCES DE BARRIERE**

[72] BERSCH, KEITH, US

[72] STAPLES, PATRICK, US

[72] LOCKARD, RICKY, US

[73] PROGRESSIVEHEALTH COMPANIES, LLC, US

[85] 2019-02-27

[86] 2018-02-02 (PCT/US2018/016655)

[87] (WO2018/144874)

[30] US (15/424,869) 2017-02-05

[11] **3,035,437**
[13] C

[51] **Int.Cl. B01J 2/04 (2006.01) B29B 9/10 (2006.01) F25C 1/00 (2006.01) B29B 9/12 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR PRODUCING PULVERULENT PLASTICS WITH A SPHERICAL STRUCTURE**

[54] **DISPOSITIF ET PROCEDE DE PRODUCTION DE MATIERES PLASTIQUES PULVERULENTES STRUCTUREES SPHERIQUES**

[72] DRESSLER, AXEL, DE

[73] DRESSLER GROUP GMBH & CO. KG, DE

[85] 2019-02-28

[86] 2017-09-08 (PCT/EP2017/072558)

[87] (WO2018/054698)

[30] DE (DE 10 2016 117 767.9) 2016-09-21

[11] **3,038,222**
[13] C

[51] **Int.Cl. G09B 9/02 (2006.01) G09B 9/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR VIRTUAL REALITY VEHICLE TRAINING FIELD**

[54] **SYSTEME ET PROCEDE DE TERRAIN D'ENTRAINEMENT DE VEHICULE A REALITE VIRTUELLE**

[72] MACQUARRIE, DON, CA

[72] WARREN, DANNY, CA

[72] MCLEOD, GEOFF, CA

[73] ADGA GROUP CONSULTANTS INC, CA

[85] 2019-03-25

[86] 2018-01-31 (PCT/CA2018/050110)

[87] (WO2018/141056)

[30] US (62/453,301) 2017-02-01

[11] **3,039,814**
[13] C

[51] **Int.Cl. F01N 13/18 (2010.01) F01N 1/00 (2006.01) F01N 1/04 (2006.01) F01N 1/10 (2006.01) F01N 1/24 (2006.01)**

[25] EN

[54] **METHODS OF AND SYSTEMS FOR CONSTRAINING FIBROUS MATERIAL DURING FILLING OPERATION**

[54] **PROCEDES ET SYSTEMES POUR CONTENIR UN MATERIAU FIBREUX PENDANT UNE OPERATION DE REMPLISSAGE**

[72] BRANDT, LUC, BE

[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US

[85] 2019-04-08

[86] 2017-09-22 (PCT/US2017/052842)

[87] (WO2018/067321)

[30] US (62/405,334) 2016-10-07

[11] **3,040,717**
[13] C

[51] **Int.Cl. B64C 25/00 (2006.01) B64C 7/00 (2006.01) B64C 25/16 (2006.01)**

[25] EN

[54] **NOISE REDUCTION FAIRING**

[54] **CARENAGE DE REDUCTION DU BRUIT**

[72] MANSFIELD, RICKY, GB

[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB

[86] (3040717)

[87] (3040717)

[22] 2019-04-17

[30] EP (18169353.2) 2018-04-25

[11] **3,041,259**
[13] C

[51] **Int.Cl. C08G 63/06 (2006.01) C08G 63/88 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **CRYSTAL NUCLEATING AGENTS FOR POLYHYDROXYALKANOATES**

[54] **AGENTS DE NUCLEATION DE CRISTAUX POUR POLYHYDROXYALCANOATES**

[72] ARNOLD, RACHELLE, US

[72] JOHNSON, ADAM, US

[73] MERIDIAN, INC., US

[85] 2019-04-18

[86] 2017-10-18 (PCT/US2017/057110)

[87] (WO2018/075594)

[30] US (62/409,540) 2016-10-18

[11] **3,041,939**
[13] C

[51] **Int.Cl. B29C 49/20 (2006.01) B63B 5/24 (2006.01) B65D 25/20 (2006.01)**

[25] EN

[54] **BLOW MOLDED PART INCLUDING COMPRESSION MOLDED ELEMENT**

[54] **PIECE MOULEE PAR SOUFFLAGE COMPRENANT UN ELEMENT MOULE PAR COMPRESSION**

[72] MONSEN, CHARLES, US

[72] ROBBINS, SAMUEL S., US

[72] PEERY, WENDELL B., US

[72] NORMAN, DENNIS JAY, US

[72] PHILLIPS, GARY, US

[73] LIFETIME PRODUCTS, INC., US

[85] 2019-04-23

[86] 2017-10-23 (PCT/US2017/057862)

[87] (WO2018/080989)

[30] US (62/412,190) 2016-10-24

[30] US (15/789,616) 2017-10-20

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[11] **3,042,331**
[13] C

- [51] **Int.Cl. F41A 31/00 (2006.01) F41H 13/00 (2006.01)**
[25] EN
[54] **CONDUCTED ENERGY WEAPON TESTING CHAMBER**
[54] **CHAMBRE D'ESSAI D'ARME A IMPULSIONS**
[72] LALONDE, LUC, CA
[73] RAMPART INTERNATIONAL, CA
[85] 2019-04-30
[86] 2016-10-28 (PCT/CA2016/051249)
[87] (WO2017/070788)
[30] US (62/248,404) 2015-10-30

[11] **3,043,127**
[13] C

- [51] **Int.Cl. G06F 12/08 (2016.01)**
[25] EN
[54] **DATA PREFETCHING METHOD, APPARATUS, AND SYSTEM**
[54] **PROCEDE, APPAREIL ET SYSTEME DE PRELECTURE DE DONNEES**
[72] ZHOU, WEI, CN
[72] YU, GANG, CN
[72] BI, BO, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-05-07
[86] 2017-11-06 (PCT/CN2017/109536)
[87] (WO2018/086494)
[30] CN (201610979946.6) 2016-11-08

[11] **3,044,000**
[13] C

- [51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **ELECTRONIC CIGARETTE**
[54] **CIGARETTE ELECTRONIQUE**
[72] WU, ZHENYU, CN
[73] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN
[86] (3044000)
[87] (3044000)
[22] 2019-05-22
[30] CN (201821535047.8) 2018-09-19

[11] **3,046,363**
[13] C

- [51] **Int.Cl. A61K 31/16 (2006.01) C07B 59/00 (2006.01) C07C 319/22 (2006.01)**
[25] EN
[54] **METHODS OF MAKING DEUTERIUM-ENRICHED N-ACETYLCYSTEINE AMIDE (D-NACA) AND (2R,2R')-3,3'-DISULFANEDIYL BIS(2-ACETAMIDOPROPANAMIDE) (DINACA) AND USING D-NACA AND DINACA TO TREAT DISEASES INVOLVING OXIDATIVE STRESS**
[54] **PROCEDES DE FABRICATION DE N-ACETYLCYSTEINE-AMIDE ENRICHI EN DEUTERIUM (D-NACA) ET (2R,2R')-3,3'-DISULFANEDIYL BIS(2-ACETAMIDOPROPANAMIDE) (DINACA) ET UTILISATION DE D-NACA ET DE DINACA POUR TRAITER DES MALADIESIMPLIQUANT UN STRESS OXYDATIF**
[72] WALL, G. MICHAEL, US
[73] NACUITY PHARMACEUTICALS, INC., US
[85] 2019-06-06
[86] 2018-11-06 (PCT/US2018/059446)
[87] (WO2019/094383)
[30] US (62/583,984) 2017-11-09
[30] US (62/587,246) 2017-11-16
[30] US (16/180,984) 2018-11-05

[11] **3,046,719**
[13] C

- [51] **Int.Cl. C08L 23/08 (2006.01) C08L 53/02 (2006.01)**
[25] EN
[54] **FLOOR COVERING AND METHOD FOR THE PRODUCTION THEREOF**
[54] **REVETEMENT DE SOL ET SON PROCEDE DE PRODUCTION**
[72] SCHULE, HANNA, DE
[72] KROGER, MARIO, DE
[73] NORA SYSTEMS GMBH, DE
[85] 2019-06-11
[86] 2017-12-14 (PCT/EP2017/082913)
[87] (WO2018/109116)
[30] DE (10 2016 124 555.0) 2016-12-15

[11] **3,047,356**
[13] C

- [51] **Int.Cl. B65G 47/51 (2006.01) B65G 1/137 (2006.01)**
[25] EN
[54] **TERMINAL DEVICE FOR A SORTING AND PICKING SYSTEM**
[54] **DISPOSITIF TERMINAL POUR SYSTEME DE TRI ET DE PREPARATION DE COMMANDES**
[72] BECHER, JORN, DE
[72] CHRISTEN, HANSUELI, CH
[73] CHRISTEN, HANSUELI, CH
[85] 2019-06-17
[86] 2017-12-16 (PCT/DE2017/000426)
[87] (WO2018/113811)
[30] DE (10 2016 015 061.0) 2016-12-19

[11] **3,048,033**
[13] C

- [51] **Int.Cl. C07H 19/16 (2006.01) A61K 31/7076 (2006.01) A61P 31/14 (2006.01) C07H 19/20 (2006.01)**
[25] EN
[54] **NUCLEOTIDE HEMI-SULFATE SALT FOR THE TREATMENT OF HEPATITIS C VIRUS**
[54] **SEL D'HEMI-SULFATE NUCLEOTIDIQUE POUR LE TRAITEMENT DU VIRUS DE L'HEPATITE C**
[72] MOUSSA, ADEL, US
[72] SOMMADOSSI, JEAN-PIERRE, US
[73] ATEA PHARMACEUTICALS, INC., US
[85] 2019-06-20
[86] 2018-01-31 (PCT/US2018/016301)
[87] (WO2018/144640)
[30] US (62/453,437) 2017-02-01
[30] US (62/469,912) 2017-03-10
[30] US (62/488,366) 2017-04-21
[30] US (62/575,248) 2017-10-20

[11] **3,050,317**
[13] C

- [51] **Int.Cl. G01N 3/18 (2006.01)**
[25] EN
[54] **TESTING METHOD FOR HYDROGEN EMBRITTLMENT**
[54] **PROCEDE DE TEST DE FRAGILISATION PAR L'HYDROGENE**
[72] WILLAN, W. CRAIG, US
[73] GOFF OMEGA HOLDINGS, LLC, US
[85] 2019-07-15
[86] 2018-02-06 (PCT/US2018/017008)
[87] (WO2018/151974)
[30] US (62/460,147) 2017-02-17

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[11] **3,051,308**
[13] C

[51] **Int.Cl. G05D 16/20 (2006.01)**
[25] EN
[54] **PRESSURIZATION SYSTEM FOR HIGH PRESSURE PROCESSING SYSTEM**
[54] **SYSTEME DE MISE SOUS PRESSION POUR SYSTEME DE TRAITEMENT A HAUTE PRESSION**
[72] IVERSEN, STEEN
BRUMMERSTEDT, DK
[72] EGHOLM, HENRIK, DK
[73] STEEPER ENERGY APS, DK
[85] 2019-07-23
[86] 2018-02-08 (PCT/EP2018/053175)
[87] (WO2018/146193)
[30] DK (PA201770076) 2017-02-08

[11] **3,052,279**
[13] C

[51] **Int.Cl. G08G 1/095 (2006.01) G08G 1/09 (2006.01) G08G 1/096 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR TRAFFIC MANAGEMENT**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE GESTION DE TRAFIC**
[72] KATZ, URIEL, IL
[73] NOTRAFFIC LTD., IL
[85] 2019-07-31
[86] 2018-02-07 (PCT/IB2018/050756)
[87] (WO2018/146598)
[30] US (15/426,078) 2017-02-07

[11] **3,055,941**
[13] C

[51] **Int.Cl. G16H 50/20 (2018.01) A61B 34/00 (2016.01) A61B 34/10 (2016.01) A61B 90/00 (2016.01) G16H 30/20 (2018.01) G06F 3/04815 (2022.01) G02B 27/01 (2006.01) G06F 3/14 (2006.01)**
[25] EN
[54] **AUGMENTED REALITY DIAGNOSIS GUIDANCE**
[54] **GUIDAGE DE DIAGNOSTIC DE REALITE AUGMENTEE**
[72] NASH, SETH ANDERSON, US
[72] WHITE, JOHN R., US
[72] GALLOWAY, ANNELEISE, US
[72] CLAYPOOL, JODY L., US
[73] ZIMMER, INC., US
[85] 2019-09-09
[86] 2018-03-12 (PCT/US2018/022074)
[87] (WO2018/169891)
[30] US (62/470,819) 2017-03-13
[30] US (62/470,690) 2017-03-13

[11] **3,056,877**
[13] C

[51] **Int.Cl. B64C 19/00 (2006.01) B64C 25/42 (2006.01)**
[25] FR
[54] **ARCHITECTURE OF AN AIRCRAFT BRAKING SYSTEM**
[54] **ARCHITECTURE DE SYSTEME DE FREINAGE POUR AERONEF**
[72] ONFROY, DOMINIQUE, FR
[72] FREY, OLIVIER, FR
[72] GOYEZ, BRIAN, FR
[73] SAFRAN LANDING SYSTEMS, FR
[86] (3056877)
[87] (3056877)
[22] 2019-09-25
[30] FR (1859059) 2018-10-01

[11] **3,058,200**
[13] C

[51] **Int.Cl. G09B 9/00 (2006.01) G09B 19/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR UPDATING A SIMULATION PLAN**
[54] **PROCEDE ET SYSTEME PERMETTANT DE METTRE A JOUR UN PLAN DE SIMULATION**
[72] GIGUERE, GHISLAIN, CA
[72] NEJELSKI, MIKHAIL, CA
[72] VO, THAI HOA, CA
[73] CAE INC., CA
[85] 2019-09-27
[86] 2016-03-31 (PCT/CA2016/000093)
[87] (WO2017/165943)

[11] **3,059,916**
[13] C

[51] **Int.Cl. F16B 45/02 (2006.01) A62B 35/00 (2006.01) B66C 1/34 (2006.01)**
[25] EN
[54] **LOCKING SNAP-HOOK FOR USE WITH LINKLESS ATTACHMENT**
[54] **MOUSQUETON DE VERROUILLAGE POUR UTILISATION AVEC DISPOSITIF DE FIXATION SANS LIEN**
[72] TRUESDELL, KEVIN, US
[73] BUCKINGHAM MANUFACTURING COMPANY, INC., US
[86] (3059916)
[87] (3059916)
[22] 2019-10-24
[30] US (62/750,499) 2018-10-25

[11] **3,060,163**
[13] C

[51] **Int.Cl. C02F 1/28 (2006.01) C02F 1/44 (2006.01) C02F 1/76 (2006.01)**
[25] EN
[54] **METHOD OF REMOVING SOLUBLE MANGANESE**
[54] **PROCEDE D'ELIMINATION DU MANGANESE SOLUBLE**
[72] MIMA, SATORU, JP
[72] SHIODE, SADAMITSU, JP
[72] OYACHI, HIROYUKI, JP
[72] SUGIURA, KIYOTAKA, JP
[72] TAKEUCHI, HIDEKI, JP
[73] METAWATER CO., LTD., JP
[85] 2019-10-16
[86] 2018-04-05 (PCT/JP2018/014606)
[87] (WO2018/198714)
[30] JP (2017-085428) 2017-04-24

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[11] **3,060,197**
[13] C

[51] **Int.Cl. A61M 1/36 (2006.01) A61K 35/14 (2015.01) A61P 11/00 (2006.01) B01J 20/28 (2006.01) B01J 20/281 (2006.01)**

[25] EN

[54] **MATERIAL FOR REMOVING ACTIVATED LEUKOCYTE-ACTIVATED PLATELET COMPLEX**

[54] **MATERIAU PERMETTANT D'ELIMINER UN COMPLEXE FORME DE PLAQUETTES ACTIVEES-LEUCOCYTES ACTIVES**

[72] TOMITA, NAOTOSHI, JP
[72] SHIMADA, KAORU, JP
[72] TAKAHASHI, HIROSHI, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2019-10-16
[86] 2018-06-06 (PCT/JP2018/021655)
[87] (WO2018/225764)
[30] JP (2017-111404) 2017-06-06

[11] **3,060,427**
[13] C

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 43/42 (2006.01) A01N 43/653 (2006.01)**

[25] EN

[54] **SAFENER CONTAINING HERBICIDAL OIL DISPERSION**

[54] **PHYTOPROTECTEUR CONTENANT UNE DISPERSION D'HUILE HERBICIDE**

[72] BENNETT, STEPHEN CRAIG, US
[72] BAATH, BHUPINDER, US
[72] ZHANG, HONG, US
[72] SECKINGER, CARLTON STEPHEN, US

[72] HAWKINS, EMMA LOUISE, GB
[72] FLOOD, CHARLIE JAMES, GB
[73] ARYSTA LIFESCIENCE INC., US
[85] 2019-10-18
[86] 2018-05-30 (PCT/US2018/035149)
[87] (WO2018/222726)
[30] US (62/512,343) 2017-05-30

[11] **3,060,853**
[13] C

[51] **Int.Cl. B66D 3/04 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MOVING A COMPONENT OF AN X-RAY MACHINE**

[54] **SYSTEMES ET PROCEDES POUR DEPLACER UN COMPOSANT D'UNE MACHINE A RAYONS X**

[72] JIANG, JINPENG, CN
[73] SHANGHAI UNITED IMAGING HEALTHCARE CO., LTD., CN

[85] 2019-10-18
[86] 2017-12-31 (PCT/CN2017/120420)
[87] (WO2018/192266)
[30] CN (201710263261.6) 2017-04-20

[11] **3,060,923**
[13] C

[51] **Int.Cl. C23F 13/18 (2006.01)**

[25] EN

[54] **CATHODIC CORROSION PROTECTION SYSTEM WITH REBAR MOUNTING ASSEMBLY**

[54] **SYSTEME DE PROTECTION CONTRE LA CORROSION CATHODIQUE COMPRENANT UN ASSEMBLAGE DE MONTAGE A BARRE D'ARMATURE**

[72] WHITMORE, DAVID W., CA
[72] BECKER, TOBIAS, CA
[73] VECTOR REMEDIATION LTD., CA
[86] (3060923)
[87] (3060923)
[22] 2019-11-05

[11] **3,062,467**
[13] C

[51] **Int.Cl. A01D 57/03 (2006.01) A01D 57/02 (2006.01) A01D 80/02 (2006.01)**

[25] EN

[54] **HARVESTING TOOL**

[54] **OUTIL DE RECOLTE**

[72] KASTNING, STEVEN RAY, CA
[72] MCDUGALL-KASTNING, CHRIS DAWN, CA

[73] DUCK FOOT PARTS INC., CA
[86] (3062467)
[87] (3062467)
[22] 2019-11-24
[30] US (16/596,604) 2019-10-08

[11] **3,063,392**
[13] C

[51] **Int.Cl. B64C 13/28 (2006.01) B64C 9/02 (2006.01) B64C 13/40 (2006.01) F16C 7/00 (2006.01)**

[25] EN

[54] **METHOD FOR CHANGING STIFFNESS OF A STIFFNESS PATH IN AN AIRCRAFT STRUCTURE**

[54] **METHODE POUR CHANGER LA RIGIDITE D'UNE VOIE DE RIGIDITE DANS UN AERONEF**

[72] HUYNH, NEAL VAN, US
[72] STANDLEY, JOHN A., US
[73] THE BOEING COMPANY, US

[86] (3063392)
[87] (3063392)
[22] 2015-09-16
[62] 2,904,559
[30] US (14/529,694) 2014-10-31

[11] **3,064,549**
[13] C

[51] **Int.Cl. C08K 5/101 (2006.01) C08L 91/00 (2006.01) C08L 95/00 (2006.01)**

[25] EN

[54] **ENHANCED ALKYL ESTER CONTAINING OIL COMPOSITIONS AND METHODS OF MAKING AND USING THE SAME**

[54] **COMPOSITIONS D'HUILE CONTENANT DE L'ESTER D'ALKYLE AMELIORE, ET PROCEDES DE PRODUCTION ET D'UTILISATION DESDITES COMPOSITIONS**

[72] MCCURDY, ALEXANDER T., US
[72] REINERS, MATTHEW D., US
[72] HEGGESETH, BRADLEY M., US
[72] PIERSON, BRUCE G., US
[72] BUSHONG, DAVID D., US
[73] POET RESEARCH INC., US

[85] 2019-11-21
[86] 2017-05-24 (PCT/US2017/034262)
[87] (WO2018/217198)

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[11] **3,064,880**
[13] C

[51] **Int.Cl. G06Q 20/36 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VALUE UNIT CONVERSION AND UTILIZATION**
[54] **SYSTEMES ET METHODES DE CONVERSION ET D'UTILISATION D'UNITES DE VALEUR**
[72] KAO, FUTEH, US
[72] MITCHELL, JOHN, US
[72] HU, CHERMAINE, US
[73] EPISODE SIX INC., US
[85] 2019-11-25
[86] 2018-05-30 (PCT/US2018/035020)
[87] (WO2018/222649)
[30] US (15/608,974) 2017-05-30
[30] US (15/623,386) 2017-06-15
[30] US (15/630,853) 2017-06-22

[11] **3,065,722**
[13] C

[51] **Int.Cl. F24F 11/30 (2018.01) F24F 1/0003 (2019.01) F25B 43/00 (2006.01)**
[25] EN
[54] **OIL RETURN CONTROL METHOD AND DEVICE OF THREE-PIPE AIR CONDITIONING SYSTEM, AND THREE-PIPE AIR CONDITIONING SYSTEM**
[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE RENVOI D'HUILE D'UN SYSTEME DE CONDITIONNEMENT D'AIR ET SYSTEME DE CONDITIONNEMENT D'AIR A TROIS TUBES**
[72] WANG, XINLI, CN
[72] XIONG, MEIBING, CN
[72] FENG, MINGKUN, CN
[72] ZHAO, HAOWEI, CN
[72] LIU, JIAJIN, CN
[73] HEFEI MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD., CN
[73] GD MIDEA HEATING & VENTILATING EQUIPMENT CO., LTD., CN
[85] 2019-12-20
[86] 2019-06-03 (PCT/CN2019/089870)
[87] (WO2020/082742)
[30] CN (201811235329.0) 2018-10-22

[11] **3,066,792**
[13] C

[51] **Int.Cl. C07K 14/22 (2006.01) A61K 39/095 (2006.01) A61K 39/385 (2006.01) A61P 31/04 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **NEISSERIA MENINGITIDIS COMPOSITIONS AND METHODS THEREOF**
[54] **COMPOSITIONS DE NEISSERIA MENINGITIDIS ET PROCEDES ASSOCIES**
[72] ANDERSON, ANNALIESA SYBIL, US
[72] HOISETH, SUSAN KAY, US
[72] JANSEN, KATHRIN UTE, US
[72] MORAN, JUSTIN KEITH, US
[72] RUPPEN, MARK E., US
[73] PFIZER INC., US
[86] (3066792)
[87] (3066792)
[22] 2013-03-06
[62] 2,960,030
[30] US (61/609,257) 2012-03-09

[11] **3,066,793**
[13] C

[51] **Int.Cl. C07K 16/00 (2006.01)**
[25] EN
[54] **SINGLE CHAIN VH AND HEAVY CHAIN ANTIBODIES**
[54] **CHAINE VARIABLE LOURDE UNIQUE ET ANTICORPS A CHAINE LOURDE**
[72] MUELLER, WERNER, DE
[72] WABL, MATTHIAS, US
[73] TRIANNI, INC., US
[85] 2019-12-09
[86] 2018-07-20 (PCT/US2018/043096)
[87] (WO2019/018770)
[30] EP (17182507.8) 2017-07-21

[11] **3,067,232**
[13] C

[51] **Int.Cl. A23L 2/52 (2006.01) A61K 9/107 (2006.01) A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 31/352 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **PREPARING STABLE LIQUID EMULSION FORMS OF PLANT EXTRACT**
[54] **PREPARATION DE FORMES D'EMULSION LIQUIDES STABLES D'EXTRAIT VEGETAL**
[72] RIEFLER, RODGER SCOTT, US
[72] AYALA, JUAN JORGE, US
[72] LEE, HOWARD M., US
[73] SORSE TECHNOLOGY CORPORATION, US
[85] 2019-12-12
[86] 2018-06-15 (PCT/US2018/037928)
[87] (WO2018/232362)
[30] US (62/520,720) 2017-06-16
[30] US (16/010,082) 2018-06-15

[11] **3,067,589**
[13] C

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **FABRIC ENCASED MICRO TUBES FOR AIR BLOWN FIBERS**
[54] **MICROTUBES ENROBES DE TISSU POUR FIBRES SOUFFLEES A L'AIR**
[72] ALLEN, JERRY L., US
[73] WESCO EQUITY CORPORATION, US
[85] 2019-12-16
[86] 2018-06-26 (PCT/US2018/039439)
[87] (WO2019/010034)
[30] US (15/640,784) 2017-07-03

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[11] **3,067,751**

[13] C

- [51] **Int.Cl. H03M 13/13 (2006.01) H03M 13/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR POLAR CODING**
[54] **PROCEDE ET DISPOSITIF DE CODAGE DE CODES POLAIRES**
[72] DAI, SHENGCHEN, CN
[72] ZHANG, HUAZI, CN
[72] LI, RONG, CN
[72] QIAO, YUNFEI, CN
[72] ZHOU, YUE, CN
[73] HUAWAI TECHNOLOGIES CO., LTD., CN
[85] 2019-12-18
[86] 2018-05-16 (PCT/CN2018/087183)
[87] (WO2018/233414)
[30] CN (201710465743.X) 2017-06-19

[11] **3,068,454**

[13] C

- [51] **Int.Cl. A61M 3/02 (2006.01) B65D 1/02 (2006.01) B65D 21/08 (2006.01)**
[25] EN
[54] **COLLAPSIBLE LIQUID RESERVOIR**
[54] **RESERVOIR DE LIQUIDE PLIABLE**
[72] HENRY, JEROME A., US
[72] ARNOLD, WILLIAM K., US
[72] GAMBLIN, DENISE, US
[72] GAUSMANN, KEITH H., US
[72] MITTAL, MAITREYEE, US
[72] LIDDLE, SCOTT E., US
[72] CULBRETH, ANTHONY S., US
[73] HOLLISTER INCORPORATED, US
[85] 2019-12-23
[86] 2018-06-26 (PCT/US2018/039561)
[87] (WO2019/005836)
[30] US (62/526,837) 2017-06-29

[11] **3,068,802**

[13] C

- [51] **Int.Cl. C07C 51/41 (2006.01) C01G 53/04 (2006.01)**
[25] EN
[54] **IMPROVED PROCESS FOR THE MANUFACTURE OF LITHIUM METAL OXIDE CATHODE MATERIALS**
[54] **PROCEDE AMELIORE POUR LA FABRICATION DE MATERIAUX DE CATHODE A BASE D'OXYDE METALLIQUE DE LITHIUM**
[72] BRERETON, CLIVE H.M., CA
[73] NANO ONE MATERIALS CORP., CA
[85] 2020-01-02
[86] 2018-07-24 (PCT/CA2018/050892)
[87] (WO2019/018926)
[30] US (15/662,380) 2017-07-28

[11] **3,069,266**

[13] C

- [51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/659 (2006.01) C08F 4/6592 (2006.01)**
[25] EN
[54] **DUAL CATALYST COMPOSITION**
[54] **COMPOSITION DE CATALYSEUR DOUBLE**
[72] CIRRIEZ, VIRGINIE, BE
[72] WELLE, ALEXANDRE, BE
[72] VANTOMME, AURELIEN, BE
[73] TOTALENERGIES ONETECH BELGIUM, BE
[85] 2020-01-07
[86] 2018-08-02 (PCT/EP2018/070971)
[87] (WO2019/025528)
[30] EP (17184406.1) 2017-08-02

[11] **3,069,501**

[13] C

- [51] **Int.Cl. A21D 13/066 (2017.01) A21D 13/42 (2017.01)**
[25] EN
[54] **GLUTEN-FREE TORTILLAS**
[54] **TORTILLAS SANS GLUTEN**
[72] CAMMAROTA, CARINA CLAUDIA, ES
[72] NG, CHRISTINE, S. T., US
[72] PLAZA GARCIA, JONAS, ES
[73] GENERAL MILLS, INC., US
[85] 2020-01-09
[86] 2017-09-01 (PCT/US2017/049908)
[87] (WO2019/045754)

[11] **3,069,783**

[13] C

- [51] **Int.Cl. H04B 1/713 (2011.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRANSMITTING A SIGNAL**
[54] **SYSTEME ET PROCEDE DE TRANSMISSION DE SIGNAL**
[72] LIU, KUN, CN
[72] DAI, BO, CN
[72] CHEN, XIANMING, CN
[72] YANG, WEIWEI, CN
[72] FANG, HUIYING, CN
[73] ZTE CORPORATION, CN
[85] 2020-01-13
[86] 2017-07-13 (PCT/CN2017/092813)
[87] (WO2019/010676)

[11] **3,070,278**

[13] C

- [51] **Int.Cl. G06V 20/68 (2022.01) G16Y 10/05 (2020.01) G06V 10/14 (2022.01) G06V 10/82 (2022.01) G01N 21/95 (2006.01)**
[25] EN
[54] **IOT BASED APPARATUS FOR ASSESSING QUALITY OF FOOD PRODUCE**
[54] **APPAREIL BASE SUR L'IDO PERMETTANT D'EVALUER LA QUALITE DE PRODUITS ALIMENTAIRES**
[72] JHA, MIKU, US
[72] BHADURI, AMITAVA, US
[73] JIDDU, INC., US
[85] 2020-01-16
[86] 2018-10-04 (PCT/US2018/054270)
[87] (WO2019/177663)
[30] US (62/642,594) 2018-03-13

[11] **3,072,034**

[13] C

- [51] **Int.Cl. B60R 21/00 (2006.01) B60W 30/06 (2006.01) B62D 6/00 (2006.01)**
[25] EN
[54] **PARKING CONTROL METHOD AND PARKING CONTROL DEVICE**
[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE STATIONNEMENT**
[72] SUZUKI, YASUHIRO, JP
[72] HAYAKAWA, YASUHISA, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2020-02-04
[86] 2017-08-10 (PCT/JP2017/029211)
[87] (WO2019/030923)

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[11] **3,072,379**
[13] C

[51] **Int.Cl. C04B 35/14 (2006.01) C04B 35/185 (2006.01) C04B 35/19 (2006.01)**

[25] EN

[54] **AQUEOUS GELCASTING FORMULATION FOR CERAMIC PRODUCTS**

[54] **FORMULATION AQUEUSE DE COULAGE DE GEL POUR PRODUITS CERAMIQUES**

[72] THOMAS, KURT J., US

[72] BRIDGETT, PAUL A. V., US

[72] VEROS, MICHAEL J., US

[72] ELMER, JOSEPH A., US

[72] DENNIS, NATHANAEL W., US

[73] DELTA FAUCET COMPANY, US

[85] 2020-02-06

[86] 2018-09-25 (PCT/US2018/052621)

[87] (WO2019/067436)

[30] US (62/563,345) 2017-09-26

[30] US (62/563,350) 2017-09-26

[11] **3,074,163**
[13] C

[51] **Int.Cl. E02D 29/12 (2006.01)**

[25] EN

[54] **HEIGHT ADJUSTMENT MECHANISM FOR A MANHOLE ASSEMBLY AND MANHOLE ASSEMBLY COMPRISING THE SAME**

[54] **MECANISME D'AJUSTEMENT DE HAUTEUR DESTINE A UN ENSEMBLE DE TROU D'HOMME ET ENSEMBLE DE TROU D'HOMME COMPORTANT LEDIT MECANISME**

[72] BRIEN, TREVOR, CA

[73] BRIEN, TREVOR, CA

[86] (3074163)

[87] (3074163)

[22] 2018-03-29

[62] 2,999,627

[30] US (62/480,419) 2017-04-01

[11] **3,074,530**
[13] C

[51] **Int.Cl. B65D 6/00 (2006.01) B65D 6/02 (2006.01)**

[25] EN

[54] **INTERCHANGEABLE DISMOUNTABLE HINGED BOX FOR STORING CORE SAMPLES**

[54] **BOITE ARTICULEE DEMONTABLE INTERCHANGEABLE POUR LE STOCKAGE D'ECHANTILLONS DE CAROTTAGE**

[72] RAMOS, FLAVIO DE BARROS, BR

[72] CARVALHO, DANIEL BORTOWSKI, BR

[73] RAMOS, FLAVIO DE BARROS, BR

[73] CARVALHO, DANIEL BORTOWSKI, BR

[86] (3074530)

[87] (3074530)

[22] 2020-03-05

[30] BR (BR 10 2019 004379 2) 2019-03-05

[11] **3,074,541**
[13] C

[51] **Int.Cl. A61K 31/5375 (2006.01) A61K 31/137 (2006.01) A61K 47/22 (2006.01) A61K 47/38 (2006.01) A61K 47/42 (2017.01) A61P 3/04 (2006.01)**

[25] EN

[54] **APPETITE SUPPRESSANT COMPOSITIONS AND METHODS THEREOF**

[54] **COMPOSITIONS DE SUPPRESSION DE L'APPETIT ET METHODES CONNEXES**

[72] BENTZ, SUZANNE, US

[73] RED MOUNTAIN HOLDINGS, LLC, US

[86] (3074541)

[87] (3074541)

[22] 2020-03-03

[11] **3,074,852**
[13] C

[51] **Int.Cl. G01N 27/26 (2006.01) A61B 5/1473 (2006.01) A61B 5/1495 (2006.01)**

[25] EN

[54] **APPLICATION OF ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY IN SENSOR SYSTEMS, DEVICES, AND RELATED METHODS**

[54] **APPLICATION DE SPECTROSCOPIE A IMPEDANCE ELECTROCHIMIQUE DANS DES SYSTEMES DE CAPTEUR, DISPOSITIFS ET PROCEDES ASSOCIES**

[72] YANG, NING, US

[72] GAUTHAM, RAGHAVENDHAR, US

[72] LIANG, BRADLEY C., US

[72] SHAH, RAJIV, US

[72] SZYMAN, CATHERINE M., US

[72] MILLER, MICHAEL E., US

[72] WANG, JENN-HANN LARRY, US

[72] LI, YIWEN, US

[72] MORGAN, WAYNE A., US

[72] CHEN, PARIS, US

[72] MUCIC, ROBERT C., US

[72] DE BARROS, GENIVAL D., US

[72] CALLIRGOS, CARLOS A., US

[72] SIRIGIRI, MANJUNATH, US

[72] BRINSON, JOSEPH PAUL, US

[73] MEDTRONIC MINIMED, INC., US

[86] (3074852)

[87] (3074852)

[22] 2013-05-24

[62] 2,873,996

[30] US (61/657,517) 2012-06-08

[30] US (61/754,479) 2013-01-18

[30] US (61/754,475) 2013-01-18

[30] US (61/754,485) 2013-01-18

[30] US (61/754,483) 2013-01-18

[30] US (61/755,811) 2013-01-23

[30] US (13/778,433) 2013-02-27

[30] US (13/778,611) 2013-02-27

[30] US (13/778,559) 2013-02-27

[30] US (13/778,514) 2013-02-27

[30] US (13/778,473) 2013-02-27

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[30] US (13/778,391) 2013-02-27

[30] US (13/778,630) 2013-02-27

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[11] **3,076,629**
[13] C

[51] **Int.Cl. G06F 40/166 (2020.01) G06F 40/194 (2020.01) G06F 40/20 (2020.01) G06F 40/30 (2020.01) G06F 40/45 (2020.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR SUGGESTING REVISIONS TO AN ELECTRONIC DOCUMENT**

[54] **PROCEDE ET SYSTEME DE SUGGESTION DE REVISIONS POUR UN DOCUMENT ELECTRONIQUE**

[72] HERR, JONATHAN, US

[72] SIMONSON, DANIEL EDWARD, US

[72] BRODERICK, DANIEL P., US

[73] BLACKBOILER, INC., US

[85] 2020-03-20

[86] 2019-03-25 (PCT/US2019/023854)

[87] (WO2019/190974)

[30] US (62/650,607) 2018-03-30

[30] US (16/361,781) 2019-03-22

[11] **3,076,953**
[13] C

[51] **Int.Cl. F28F 9/18 (2006.01) F28D 1/047 (2006.01) F28D 1/053 (2006.01) F28F 1/02 (2006.01) F28F 1/26 (2006.01) F28F 1/34 (2006.01) F28D 1/02 (2006.01)**

[25] EN

[54] **TUBE JOINING**

[54] **ASSEMBLAGE DE TUBES**

[72] QUESADA SABORIO, CARLOS, CR

[73] QUESADA SABORIO, CARLOS, CR

[85] 2020-03-25

[86] 2018-09-26 (PCT/IB2018/001190)

[87] (WO2019/064067)

[30] US (62/563,382) 2017-09-26

[11] **3,077,516**
[13] C

[51] **Int.Cl. C23C 22/56 (2006.01) B05D 3/00 (2006.01) C09D 5/00 (2006.01) C09J 5/02 (2006.01) C22C 21/00 (2006.01) C23C 22/66 (2006.01) C23C 22/77 (2006.01) C23C 22/78 (2006.01) C23F 1/02 (2006.01) C23F 1/20 (2006.01) C23F 1/36 (2006.01) C23G 1/12 (2006.01) C23G 1/22 (2006.01)**

[25] EN

[54] **ALUMINUM ALLOY ARTICLES HAVING IMPROVED BOND DURABILITY AND INERT SURFACE ALUMINUM ALLOY ARTICLES AND METHODS OF MAKING AND USING THE SAME**

[54] **ARTICLES EN ALLIAGE D'ALUMINIUM AYANT UNE STABILITE DE LIAISON AMELIOREE ET ARTICLES EN ALLIAGE D'ALUMINIUM A SURFACE INERTE ET PROCEDES DE FABRICATION ET D'UTILISATION DE CEUX-CI**

[72] LI, LIANGLIANG, US

[72] MACFARLANE, THERESA ELIZABETH, US

[72] REDMOND, PETER LLOYD, US

[72] YUAN, YUDIE, US

[72] BUCKINGHAM, STEPHEN, US

[72] MANAVBASI, ALP, US

[72] VEGA, LUIS FANOR, US

[72] WU, CEDRIC, US

[73] NOVELIS INC., US

[85] 2020-03-30

[86] 2018-10-23 (PCT/US2018/057053)

[87] (WO2019/125595)

[30] US (62/608,618) 2017-12-21

[30] US (62/741,691) 2018-10-05

[11] **3,077,743**
[13] C

[51] **Int.Cl. G01F 15/00 (2006.01) G01M 13/00 (2019.01)**

[25] EN

[54] **VALVE METER ASSEMBLY AND METHOD**

[54] **DEBITMETRE DE ROBINET AVEC PROCEDE D'UTILISATION**

[72] BALL, MARTY SCOTT, US

[72] LINKEL, SCOTT ARON, US

[73] MUELLER INTERNATIONAL, LLC, US

[86] (3077743)

[87] (3077743)

[22] 2012-05-23

[62] 2,777,973

[30] US (13/149,720) 2011-05-31

[11] **3,078,175**
[13] C

[51] **Int.Cl. C12P 1/00 (2006.01) C12N 5/09 (2010.01) A61K 35/13 (2015.01) A61P 35/00 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING CELL EXTRACT COMPONENT OR COMPOSITION HAVING CYTOCIDAL ACTIVITY**

[54] **PROCEDE DE PREPARATION DE COMPOSITION OU DE COMPOSANT EXTRAIT DE CELLULE AYANT UNE ACTIVITE DE CYTOTOXICITE**

[72] TAJIMA, TOMOYUKI, JP

[72] KONDO, YOSHIFUSA, JP

[73] MEDICAL CORPORATION ICHIKAWA CLINIC, JP

[85] 2020-04-01

[86] 2018-10-05 (PCT/JP2018/037430)

[87] (WO2019/070069)

[30] JP (2017-194988) 2017-10-05

[11] **3,079,177**
[13] C

[51] **Int.Cl. G01S 1/04 (2006.01)**

[25] EN

[54] **LORAN DEVICE WITH INTERFERENCE CANCELLATION AND INTERFERENCE CANCELLER DEVICE WITH RELATED METHODS**

[54] **DISPOSITIF LORAN AVEC DISPOSITIF D'ANNULATION D'INTERFERENCE ET D'ANNULEUR D'INTERFERENCE AVEC PROCEDES CONNEXES**

[72] PARSCHE, FRANCIS E., US

[72] HENDRICKSON, KENNETH J., US

[72] ADAMS, WILLIAM C., JR., US

[73] EAGLE TECHNOLOGY, LLC, US

[86] (3079177)

[87] (3079177)

[22] 2020-04-22

[30] US (16/400,321) 2019-05-01

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[11] **3,081,888**
[13] C

[51] **Int.Cl. B66F 5/04 (2006.01) B66F 3/25 (2006.01)**
[25] EN
[54] **TRUNNION BLOCK ASSEMBLY**
[54] **ENSEMBLE BLOC DE TOURILLON**
[72] SCHULZ, BENJAMIN T., US
[72] ANDERSEN, JONATHAN I., US
[72] RETTLER, JAMES T., US
[73] SNAP-ON INCORPORATED, US
[86] (3081888)
[87] (3081888)
[22] 2020-06-02
[30] US (16/429,426) 2019-06-03

[11] **3,082,151**
[13] C

[51] **Int.Cl. B09B 3/00 (2022.01) B09B 3/20 (2022.01) B09B 3/25 (2022.01) B02C 18/00 (2006.01) B02C 23/08 (2006.01) B03C 1/30 (2006.01)**
[25] EN
[54] **CONVERTING RECYCLABLE MATERIALS INTO MANUFACTURING PRODUCTS**
[54] **CONVERSION DE MATERIAUX RECYCLABLES EN PRODUITS DE FABRICATION**
[72] WHITAKER, RANDAL, US
[72] RUSH, CARL, US
[72] LOWER, MARC, US
[72] TOBERMAN, RICHARD, US
[72] BRADSHAW, ALLAN, US
[72] WINTEROWD, JACK, US
[72] SUPUT, MARKO, US
[72] SPENCER, MATTHEW, US
[72] RAYMAN, JAN, US
[72] DERAAD, DEAN, US
[72] COCHRANE, RICHARD, US
[73] CONTINUUS MATERIALS INTELLECTUAL PROPERTY, LLC, US
[85] 2020-05-07
[86] 2018-11-07 (PCT/US2018/059545)
[87] (WO2019/094411)
[30] US (62/583,036) 2017-11-08
[30] US (62/583,038) 2017-11-08

[11] **3,082,213**
[13] C

[51] **Int.Cl. B66F 5/04 (2006.01) B66F 3/30 (2006.01)**
[25] EN
[54] **FLOOR JACK LOCKOUT ASSEMBLY**
[54] **ENSEMBLE DE VERROUILLAGE DU VERIN DE PLANCHER**
[72] ANDERSEN, JONATHAN I., US
[72] RETTLER, JAMES T., US
[72] SCHULZ, BENJAMIN T., US
[73] SNAP-ON INCORPORATED, US
[86] (3082213)
[87] (3082213)
[22] 2020-06-05
[30] US (16/434,730) 2019-06-07

[11] **3,083,303**
[13] C

[51] **Int.Cl. G06F 40/20 (2020.01) G06F 17/18 (2006.01) H04M 1/656 (2006.01) H04M 3/527 (2006.01)**
[25] EN
[54] **SIGNAL DISCOVERY USING ARTIFICIAL INTELLIGENCE MODELS**
[54] **DECOUVERTE DE SIGNAUX AU MOYEN DE MODELES D'INTELLIGENCE ARTIFICIELLE**
[72] MCCOURT, MICHAEL, US
[72] STORLIE, SEAN, US
[72] BORDA, VICTOR, US
[72] LAWRENCE, MICHAEL, US
[72] PRATURU, ANOOP, US
[73] INVOCA, INC., US
[86] (3083303)
[87] (3083303)
[22] 2020-06-10
[30] US (62/923,329) 2019-10-18
[30] US (62/980,092) 2020-02-21

[11] **3,083,493**
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01)**
[25] EN
[54] **LIMB ORTHOSIS, IN PARTICULAR KNEE ORTHOSIS**
[54] **ORTHESE D'EXTREMITE, EN PARTICULIER ORTHESE DE GENOU**
[72] HEBENSTREIT, SANDRO, DE
[72] STIER, GERALD, DE
[72] BAUERFEIND, HANS B., DE
[73] BAUERFEIND AG, DE
[85] 2020-05-22
[86] 2018-11-23 (PCT/EP2018/082346)
[87] (WO2019/101910)
[30] DE (10 2017 220 968.2) 2017-11-23

[11] **3,083,998**
[13] C

[51] **Int.Cl. F41A 17/06 (2006.01) F41C 27/00 (2006.01) F41C 33/04 (2006.01)**
[25] EN
[54] **PISTOL ACTIVITY RECORDING DEVICE**
[54] **DISPOSITIF D'ENREGISTREMENT D'ACTIVITE DE PISTOLET**
[72] ESTES, JAMES CLINTON, III, US
[72] FORRESTER, ROGER, US
[73] ESTES, JAMES CLINTON, III, US
[85] 2020-05-29
[86] 2017-11-30 (PCT/US2017/064101)
[87] (WO2018/102627)
[30] US (62/428,209) 2016-11-30
[30] US (15/828,416) 2017-11-30

[11] **3,084,004**
[13] C

[51] **Int.Cl. A61K 38/26 (2006.01) A61P 3/00 (2006.01) C07K 14/605 (2006.01)**
[25] EN
[54] **INCRETIN ANALOGS AND USES THEREOF**
[54] **ANALOGUES D'INCRETINE ET LEURS UTILISATIONS**
[72] ALSINA-FERNANDEZ, JORGE, US
[72] COSKUN, TAMER, US
[72] GUO, LILI, US
[72] QU, HONGCHANG, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-05-28
[86] 2018-12-14 (PCT/US2018/065605)
[87] (WO2019/125929)
[30] US (62/608,644) 2017-12-21

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[11] **3,084,629**
[13] C

[51] **Int.Cl. G06Q 40/02 (2023.01) G06Q 40/03 (2023.01) G06Q 40/12 (2023.01) G06Q 20/00 (2012.01)**

[25] EN
[54] **PREDICTING CAPITAL NEEDS**
[54] **MODELE DE PREDICTION DES BESOINS EN CAPITAL**

[72] RESES, JACQUELINE, US
[72] KIM, AUDREY, US
[72] KOSEV, THEODORE, US
[72] MONTGOMERY, ANDY, US
[73] BLOCK, INC., US
[86] (3084629)
[87] (3084629)
[22] 2020-06-23
[30] US (62/865,595) 2019-06-24
[30] US (16/526,888) 2019-07-30
[30] US (16/526,906) 2019-07-30

[11] **3,085,277**
[13] C

[51] **Int.Cl. H04N 19/89 (2014.01) H03M 13/11 (2006.01) H04N 7/24 (2011.01)**

[25] EN
[54] **TRANSMITTER AND ADDITIONAL PARITY GENERATING METHOD THEREOF**

[54] **EMETTEUR, ET PROCEDE DE GENERATION DE BITS DE PARITE SUPPLEMENTAIRES CORRESPONDANT**

[72] JEONG, HONG-SIL, KR
[72] KIM, KYUNG-JOONG, KR
[72] MYUNG, SE-HO, KR
[73] SAMSUNG ELECTRONICS CO., LTD., KR
[86] (3085277)
[87] (3085277)
[22] 2016-02-15
[62] 2,975,077
[30] US (62/115,810) 2015-02-13
[30] US (62/120,543) 2015-02-25
[30] US (62/202,304) 2015-08-07
[30] KR (10-2015-0137191) 2015-09-27

[11] **3,085,804**
[13] C

[51] **Int.Cl. A24F 40/30 (2020.01)**

[25] EN
[54] **ELECTRONIC AEROSOL PROVISION SYSTEM WITH A PLURALITY OF AEROSOL GENERATING AREAS**

[54] **SYSTEME D'AEROSOL ELECTRONIQUE COMPORTANT PLUSIEURS ZONES DE PRODUCTION D'AEROSOL**

[72] BRUTON, CONNOR, GB
[72] DICKENS, COLIN, GB
[72] MOLONEY, PATRICK, GB
[72] KORUS, ANTON, GB
[72] SPENCER, ALFRED VINCENT, GB
[72] BLICK, KEVIN DAVID, GB
[72] AZZOPARDI, ANNA, GB
[72] HARVEY, LISA, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2020-06-15
[86] 2018-12-19 (PCT/GB2018/053696)
[87] (WO2019/122880)
[30] GB (1721477.6) 2017-12-20

[11] **3,086,174**
[13] C

[51] **Int.Cl. B64D 15/12 (2006.01) C08K 3/04 (2006.01) C08K 7/24 (2006.01) C08L 83/00 (2006.01) C23C 26/00 (2006.01)**

[25] EN
[54] **THREE DIMENSIONAL GRAPHENE FOAM REINFORCED COMPOSITE COATING AND DEICIN G SYSTEMS THEREFROM**

[54] **REVETEMENT COMPOSITE TRIDIMENSIONNEL RENFORCE PAR UNE MOUSSE DE GRAPHENE ET SYSTEMES DE DEGIVRAGE L'UTILISANT**

[72] AGARWAL, ARVIND, US
[72] BOESL, BENJAMIN, US
[72] BUSTILLOS, JENNIFFER, US
[72] ZHANG, CHENG, US
[73] THE FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES, US
[85] 2020-06-17
[86] 2018-12-14 (PCT/US2018/065586)
[87] (WO2019/125923)
[30] US (15/849,020) 2017-12-20

[11] **3,086,308**
[13] C

[51] **Int.Cl. H01F 41/02 (2006.01) C21D 10/00 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**

[25] EN
[54] **GRAIN-ORIENTED ELECTRICAL STEEL SHEET, WOUND TRANSFORMER CORE USING THE SAME, AND METHOD FOR PRODUCING WOUND CORE**

[54] **FEUILLE D'ACIER ELECTRIQUE DIRECTIONNELLE, NOYAU DE TRANSFORMATEUR ENROULE L'UTILISANT, ET PROCEDE DE FABRICATION DE NOYAU ENROULE**

[72] INOUE, HIROTAKA, JP
[72] OKABE, SEIJI, JP
[72] OMURA, TAKESHI, JP
[73] JFE STEEL CORPORATION, JP
[85] 2020-06-18
[86] 2019-01-31 (PCT/JP2019/003399)
[87] (WO2019/151399)
[30] JP (2018-014244) 2018-01-31

[11] **3,086,791**
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01)**

[25] EN
[54] **HARD FRAME WITH PIVOTABLE BRIDGE**

[54] **CADRE RIGIDE PRESENTANT UN PONT PIVOTANT**

[72] GORNERT, FLORIAN, DE
[72] HEBENSTREIT, SANDRO, DE
[72] BAUERFEIND, HANS B., DE
[73] BAUERFEIND AG, DE
[85] 2020-06-19
[86] 2018-12-21 (PCT/EP2018/086667)
[87] (WO2019/122364)
[30] DE (10 2017 223 757.0) 2017-12-22

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[11] **3,087,748**
[13] C

[51] **Int.Cl. G01J 5/58 (2022.01) B82Y 15/00 (2011.01) G01J 5/10 (2006.01) G01J 5/12 (2006.01) G01J 5/20 (2006.01) G01J 5/34 (2022.01)**

[25] EN

[54] **THERMAL RADIATION DETECTORS WITH CARBON-NANOTUBE-BASED OPTICAL ABSORBERS**

[54] **DETECTEURS DE RAYONNEMENT THERMIQUE AVEC ABSORBEURS OPTIQUES A BASE DE NANOTUBES DE CARBONE**

[72] OULACHGAR, HASSANE, CA
[72] GENEUREUX, FRANCIS, CA
[72] PROVENCAL, FRANCIS, CA
[73] INSTITUT NATIONAL D'OPTIQUE, CA

[86] (3087748)
[87] (3087748)
[22] 2020-07-23

[11] **3,088,040**
[13] C

[51] **Int.Cl. G06F 21/62 (2013.01) H04W 12/02 (2009.01) G06F 21/64 (2013.01) H04L 9/32 (2006.01)**

[25] EN

[54] **BLOCK-CHAIN BASED IDENTITY SYSTEM**

[54] **SYSTEME D'IDENTITE BASE SUR CHAINES DE BLOCS**

[72] KAMM, FRANK-MICHAEL, DE
[73] GIESECKE+DEVRIENT MOBILE SECURITY GMBH, DE

[85] 2020-07-09
[86] 2019-01-15 (PCT/EP2019/000014)
[87] (WO2019/141505)
[30] DE (10 2018 000 471.7) 2018-01-22

[11] **3,088,197**
[13] C

[51] **Int.Cl. B29C 49/18 (2006.01) B29C 49/06 (2006.01) B29C 49/10 (2006.01) B65B 3/02 (2006.01) B67C 3/02 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR FORMING FINAL-SHAPED CONTAINERS USING LIQUID TO BE CONTAINED THEREIN**

[54] **PROCEDE ET APPAREIL POUR DONNER UNE FORME FINALE A DES CONTENANTS EN UTILISANT UN LIQUIDE DEVANT ETRE CONTENU DANS LESDITS CONTENANTS**

[72] BECK, CHRISTOPHE SIMON PIERRE, FR
[72] WITZ, JEAN-CHRISTOPHE, FR
[72] RASCHE, SEBASTIAN, DE
[73] HUSKY INJECTION MOLDING SYSTEMS LTD., CA

[85] 2020-07-10
[86] 2018-12-28 (PCT/CA2018/051678)
[87] (WO2019/136551)
[30] US (62/616,014) 2018-01-11

[11] **3,088,555**
[13] C

[51] **Int.Cl. C02F 3/28 (2006.01) C02F 5/00 (2006.01) C02F 11/04 (2006.01) D21C 11/00 (2006.01) G01N 33/18 (2006.01)**

[25] EN

[54] **CALCIFICATION INHIBITOR FOR ANAEROBIC GRANULE SLUDGE**

[54] **INHIBITEUR DE CALCIFICATION POUR BOUES ANAEROBIES DE GRANULES**

[72] WANG, SHUANGFEI, CN
[72] PENG, LING, CN
[72] ZHANG, JIAN, CN
[72] QIN, CHENGRONG, CN
[72] PAN, JIQI, CN
[72] WU, WANLI, CN
[72] WANG, ZHIWEI, CN
[73] GUANGXI UNIVERSITY, CN

[86] (3088555)
[87] (3088555)
[22] 2020-07-30
[30] CN (201910701262.3) 2019-07-31

[11] **3,090,198**
[13] C

[51] **Int.Cl. A61B 18/12 (2006.01) A61B 18/14 (2006.01)**

[25] EN

[54] **DUAL-CHANNEL INJECTION BIPOLAR HIGH FREQUENCY ELECTROSURGICAL KNIFE**

[54] **COUTEAU ELECTROCHIRURGICAL A HAUTE FREQUENCE BIPOLAIRE A INJECTION EN DOUBLE CANAL**

[72] TANG, ZHI, CN
[72] FAN, MINGQIAO, CN
[72] XIE, HUAN, CN
[72] LI, CHANGQING, CN
[72] LENG, DERONG, CN
[73] MICRO-TECH (NANJING) CO., LTD., CN

[85] 2020-07-31
[86] 2018-09-07 (PCT/CN2018/104476)
[87] (WO2019/169843)
[30] CN (201810184576.6) 2018-03-07

[11] **3,090,898**
[13] C

[51] **Int.Cl. G01N 27/622 (2021.01)**

[25] EN

[54] **ION MOBILITY SPECTROMETER AND METHOD OF ANALYZING IONS**

[54] **SPECTROMETRE DE MOBILITE IONIQUE ET PROCEDE D'ANALYSE D'IONS**

[72] HOPKINS, SCOTT, CA
[72] PAWLISZYN, JANUSZ B., CA
[73] JP SCIENTIFIC LIMITED, CA

[85] 2020-08-11
[86] 2019-02-13 (PCT/CA2019/050180)
[87] (WO2019/157596)
[30] US (62/629,763) 2018-02-13

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[11] **3,090,950**
[13] C

[51] **Int.Cl. B60C 25/12 (2006.01)**
[25] EN
[54] **FITTING DEVICE FOR TIRE ASSEMBLY AND METHOD FOR MANUFACTURING TIRE ASSEMBLY**

[54] **DISPOSITIF D'AJUSTEMENT DE PNEUMATIQUE ET PROCEDE DE FABRICATION D'UN ENSEMBLE PNEUMATIQUE**

[72] FUNATO, JUNJI, JP
[73] CENTRAL MOTOR WHEEL CO., LTD., JP
[85] 2020-08-11
[86] 2018-02-22 (PCT/JP2018/006414)
[87] (WO2019/163048)

[11] **3,092,210**
[13] C

[51] **Int.Cl. E21B 43/01 (2006.01) E21B 43/12 (2006.01) E21B 43/34 (2006.01)**
[25] EN
[54] **SUB SEA LEVEL DIVERSION OF A GAS ENTRAINMENT WITH PREVENTION OF A WELL BLOW OUT**

[54] **DIVERSION SOUS LE NIVEAU DE LA MER D'UN ENTRAINEMENT DE GAZ AVEC PREVENTION DE L'ERUPTION DE Puits**

[72] PATURU, SUMATHI, US
[73] PATURU, SUMATHI, US
[85] 2020-08-07
[86] 2018-05-08 (PCT/US2018/000117)
[87] (WO2019/151970)
[30] US (15/932,078) 2018-01-30

[11] **3,094,156**
[13] C

[51] **Int.Cl. C22B 1/00 (2006.01) B09B 5/00 (2006.01)**
[25] EN
[54] **METHOD FOR PROCESSING ELECTRONIC AND ELECTRICAL DEVICE COMPONENT SCRAP**

[54] **PROCEDE DE TRAITEMENT DE DECHETS DE COMPOSANTS DE DISPOSITIF ELECTRONIQUES ET ELECTRIQUES**

[72] AOKI, KATSUSHI, JP
[72] TAKEDA, TSUBASA, JP
[73] JX NIPPON MINING & METALS CORPORATION, JP
[85] 2020-09-16
[86] 2019-03-18 (PCT/JP2019/011293)
[87] (WO2019/177177)
[30] JP (2018-050078) 2018-03-16

[11] **3,094,334**
[13] C

[51] **Int.Cl. C09K 8/92 (2006.01) C09K 8/588 (2006.01) C09K 8/80 (2006.01) C09K 8/88 (2006.01)**
[25] EN
[54] **PELLETIZED DIVERTING AGENTS USING DEGRADABLE POLYMERS**

[54] **AGENTS DE DEVIATION SOUS FORME DE GRANULES UTILISANT DES POLYMERES DEGRADABLES**

[72] LARSEN, TRAVIS HOPE, US
[72] EOFF, LARRY STEVEN, US
[72] BEUTERBAUGH, AARON MICHAEL, US
[72] LEWIS, CHRIS A., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-09-17
[86] 2018-05-14 (PCT/US2018/032507)
[87] (WO2019/221693)

[11] **3,095,930**
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/32 (2006.01) A61B 18/00 (2006.01)**
[25] EN
[54] **TISSUE SPECIMEN REMOVAL DEVICE, SYSTEM AND METHOD**

[54] **DISPOSITIF, SYSTEME ET PROCEDE DE RETRAIT D'ECHANTILLON TISSULAIRE**

[72] JOHNSON, DIRK, US
[72] GREGG, WILLIAM N., US
[72] TWOMEY, JOHN R., US
[72] ARTALE, RYAN C., US
[73] EXIMIS SURGICAL INC., US
[85] 2020-10-01
[86] 2019-04-11 (PCT/US2019/027025)
[87] (WO2019/200127)
[30] US (62/656,251) 2018-04-11

[11] **3,097,159**
[13] C

[51] **Int.Cl. F24F 13/06 (2006.01) F16B 2/24 (2006.01)**
[25] EN
[54] **CEILING REGISTER VENT WITH BOW-SPRINGS ON SIDEWALLS FOR SCREWLESS ATTACHMENT TO REGISTER BOX**

[54] **EVENT DE REGISTRE DE PLAFOND AVEC RESSORTS ARQUES SUR LES PAROIS LATERALES POUR UNE FIXATION SANS VIS AU BOITIER DE REGISTRE**

[72] WRIGHT, COLIN M., CA
[73] THE WRIGHT HANDYMAN INC., CA
[86] (3097159)
[87] (3097159)
[22] 2020-10-27

[11] **3,097,177**
[13] C

[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **INHALER WITH SURFACE ACOUSTIC WAVE-ATOMIZER**

[54] **POMPE COMPRENANT UN PULVERISATEUR A ONDE ACOUSTIQUE DE SURFACE**

[72] MINAMI, YUKI, JP
[72] KUDO, TAKAHISA, JP
[72] INAGAKI, MICHIIHIRO, JP
[72] INOUE, JUMPEI, JP
[72] ABE, YUKI, JP
[72] GEERNAERT, ADAM, GB
[72] RUBICONI, FRANCK, GB
[72] COX, SIMON, GB
[72] JOBANPUTRA, RISHI, GB
[73] JAPAN TOBACCO INC., JP
[85] 2020-10-07
[86] 2019-04-09 (PCT/JP2019/015377)
[87] (WO2019/198684)
[30] JP (PCT/JP2018/015128) 2018-04-10
[30] JP (PCT/JP2018/046712) 2018-12-19

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[11] **3,097,303**
[13] C

[51] **Int.Cl. B42D 25/351 (2014.01) B42D 25/30 (2014.01)**
[25] EN
[54] **OPTICAL ANTI-COUNTERFEITING ELEMENT AND PREPARATION METHOD THEREOF, AND OPTICAL ANTI-COUNTERFEITING PRODUCT**
[54] **ELEMENT ANTI-CONTREFAÇON OPTIQUE ET SON PROCÉDE DE FABRICATION, ET PRODUIT ANTI-CONTREFAÇON OPTIQUE**
[72] HU, CHUNHUA, CN
[72] ZHU, JUN, CN
[72] ZHANG, WEIWEI, CN
[72] ZHANG, BAOLI, CN
[72] LI, YAN, CN
[73] ZHONGCHAO SPECIAL SECURITY TECHNOLOGY CO., LTD, CN
[73] CHINA BANKNOTE PRINTING AND MINTING CORP., CN
[85] 2020-10-15
[86] 2019-04-08 (PCT/CN2019/081724)
[87] (WO2020/010885)
[30] CN (201810770939.4) 2018-07-13

[11] **3,097,932**
[13] C

[51] **Int.Cl. A61B 18/12 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL HIGH-FREQUENCY ELECTRIC KNIFE**
[54] **COUPEAU ELECTRIQUE A HAUTE FREQUENCE MULTIFONCTION**
[72] HU, XIAO, CN
[72] TANG, ZHI, CN
[72] FAN, MINGQIAO, CN
[72] XIE, HUAN, CN
[72] LI, CHANGQING, CN
[72] LENG, DERONG, CN
[73] MICRO-TECH (NANJING) CO., LTD., CN
[73] SICHUAN PROVINCIAL PEOPLE'S HOSPITAL, CN
[85] 2020-10-21
[86] 2019-04-19 (PCT/CN2019/083463)
[87] (WO2019/206042)
[30] CN (201810366219.1) 2018-04-23

[11] **3,098,007**
[13] C

[51] **Int.Cl. G06F 21/31 (2013.01) G06F 7/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MERGING ACCOUNTS**
[54] **SYSTEME ET METHODE DE FUSION DE COMPTES**
[72] RALLABHANDI, LALITH, CA
[72] CHEN, ZHI YANG, CA
[73] SHOPIFY INC., CA
[86] (3098007)
[87] (3098007)
[22] 2020-11-03
[30] US (16/861751) 2020-04-29

[11] **3,098,079**
[13] C

[51] **Int.Cl. G01N 21/64 (2006.01) G16H 10/40 (2018.01) G16H 10/60 (2018.01) G16H 40/20 (2018.01) G16B 40/10 (2019.01) C12M 1/34 (2006.01) C12Q 1/70 (2006.01) C40B 30/00 (2006.01) C40B 60/00 (2006.01) G01N 1/00 (2006.01) G01N 1/28 (2006.01) G01N 1/38 (2006.01) G01N 29/00 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR POINT-OF-CARE, RAPID, FIELD-DEPLOYABLE DIAGNOSTIC TESTING OF COVID-19, VIRUSES, ANTIBODIES AND MARKERS**
[54] **APPAREIL ET METHODE POUR LE TEST DE DIAGNOSTIC RAPIDE DE LA COVID-19, DE VIRUS, D'ANTICORPS ET DE MARQUEURS AU POINT D'INTERVENTION ET DEPLOYABLE SUR LE TERRAIN**
[72] SHACHAR, JOSH, US
[72] KORNBERG, ROGER, US
[72] PEREBIKOVSKY, ALEXANDRA, US
[72] POLLACK, BRANDON, US
[72] SHABOYAN, SERGEY, US
[72] SHAMLOO, EHSAN, US
[72] KIDO, HORACIO, US
[72] ROBERTS, ADAM, US
[72] MUNOZ, HECTOR, US
[73] AUTONOMOUS MEDICAL DEVICES INC., US
[86] (3098079)
[87] (3098079)
[22] 2020-11-04
[30] US (16/714,421) 2019-12-13
[30] US (16/912,568) 2020-06-25
[30] US (17/083,113) 2020-10-28

[11] **3,098,442**
[13] C

[51] **Int.Cl. G16H 40/20 (2018.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR IDENTIFYING SUBJECTS FOR ENROLLMENT IN CLINICAL TRIALS**
[54] **METHODES ET SYSTEMES DE DETERMINATION DE SUJETS AUX FINS D'INSCRIPTION ADES ESSAIS CLINIQUES**
[72] JONES, STEVE, GB
[73] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2020-10-26
[86] 2019-05-14 (PCT/US2019/032187)
[87] (WO2019/222191)
[30] US (62/671,202) 2018-05-14

[11] **3,098,721**
[13] C

[51] **Int.Cl. B25H 3/02 (2006.01)**
[25] EN
[54] **TOOL STORAGE UNITS WITH INTEGRATED POWER**
[54] **SYSTEME DE RANGEMENT POUR OUTILS A ALIMENTATION INTEGREE**
[72] DOERFLINGER, DAVID A., US
[72] EGGERT, DANIEL, US
[73] SNAP-ON INCORPORATED, US
[86] (3098721)
[87] (3098721)
[22] 2020-11-10
[30] US (62/934,330) 2019-11-12
[30] US (62/935,406) 2019-11-14
[30] US (17/085,656) 2020-10-30

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[11] **3,099,011**
[13] C

[51] **Int.Cl. B65G 49/06 (2006.01)**
[25] EN
[54] **SORTING METHOD AND DEVICE FOR SORTING PLATE-SHAPED OBJECTS, PREFERABLY GLASS PANEL CUT PIECES, METHOD AND DEVICE FOR PRODUCING GLASS PANEL CUT PIECES WITH A SORTING DEVICE OF THIS TYPE**

[54] **PROCEDE ET DISPOSITIF DE TRIAGE D'OBJETS EN FORME DE PLAQUE, DE PREFERENCE D'EBAUCHES DE PANNEUX DE VERRE, PROCEDE ET DISPOSITIF DE PRODUCTION D'EBAUCHES DE PANNEUX DE VERRE AVEC UN TEL DISPOSITIF DE TRIAGE**

[72] RIEPE, DIETER, DE
[72] ROTERMUND, CHRISTIAN, DE
[72] SCHOISSWOHL, MARKUS, AT
[72] HOETGER, BERNHARD, DE
[72] WERNEKE, MIRKO, DE
[73] HEGLA GMBH & CO. KG, DE
[85] 2020-11-02
[86] 2019-04-04 (PCT/EP2019/058573)
[87] (WO2019/211058)
[30] DE (10 2018 206 974.3) 2018-05-04
[30] DE (10 2018 117 765.8) 2018-07-23
[30] DE (10 2018 218 141.1) 2018-10-23

[11] **3,099,748**
[13] C

[51] **Int.Cl. G06T 17/20 (2006.01) G06T 7/50 (2017.01) G06T 1/00 (2006.01)**
[25] EN
[54] **SPATIAL CONSTRUCTION USING GUIDED SURFACE DETECTION**

[54] **CONSTRUCTION SPATIALE UTILISANT UNE DETECTION DE SURFACE GUIDEE**

[72] SHEFFIELD, MASON E., US
[73] LOWE'S COMPANIES, INC., US
[85] 2020-11-06
[86] 2019-05-20 (PCT/US2019/033148)
[87] (WO2019/226560)
[30] US (15/988,891) 2018-05-24

[11] **3,100,932**
[13] C

[51] **Int.Cl. B60R 9/055 (2006.01)**
[25] EN
[54] **CARGO CARRIER**

[54] **PORTE-CHARGE**

[72] BUCHHOLTZ STORM, SOREN, DK
[72] FRITSCHKE, GUNTHER, DE
[72] ERIKSSON, HENRIK, SE
[72] NORDANGARD, MARKUS, SE
[72] ANDERSSON, JOAKIM, SE
[72] TREPTOW, JOHN-PATRIK, SE
[73] THULE SWEDEN AB, SE
[85] 2020-11-19
[86] 2019-09-02 (PCT/EP2019/073337)
[87] (WO2020/043921)
[30] EP (18192055.4) 2018-08-31

[11] **3,100,948**
[13] C

[51] **Int.Cl. E05B 63/08 (2006.01) E05B 53/00 (2006.01) E05B 63/00 (2006.01)**
[25] EN
[54] **MORTISE AND MULTIPOINT LATCHING ASSEMBLY**

[54] **ASSEMBLAGE DE MORTAISE ET DE LOQUET MULTIPOINT**

[72] ALI, MOHAMMED M., IN
[72] KONDI, SUSHANTH A., IN
[72] PUTASWAMY, KEMPARAJU, IN
[72] GRAHAM, MATTHEW S., US
[72] COLEMAN, MICHAEL D., US
[73] SCHLAGE LOCK COMPANY LLC, US
[86] (3100948)
[87] (3100948)
[22] 2015-07-03
[62] 2,986,745
[30] US (14/324,016) 2014-07-03

[11] **3,101,199**
[13] C

[51] **Int.Cl. C09J 7/38 (2018.01) F16D 65/00 (2006.01)**
[25] EN
[54] **ADHESIVE COMPOSITE AND METHOD OF FORMING AN ADHESIVE COMPOSITE**

[54] **COMPOSITE ADHESIF ET METHODE DE FABRICATION D'UN COMPOSITE ADHESIF**

[72] SCHEFFEL, JAN, DE
[72] ROTH-ROSENKRANZ, ANDREAS, DE
[73] SAINT-GOBAIN PERFORMANCE PLASTICS BIOLINK GMBH, DE
[85] 2020-11-23
[86] 2019-05-22 (PCT/EP2019/063206)
[87] (WO2019/224240)
[30] US (62/675,231) 2018-05-23

[11] **3,101,570**
[13] C

[51] **Int.Cl. C25B 15/02 (2021.01) C25B 1/50 (2021.01) C25B 1/04 (2021.01)**
[25] EN
[54] **ELECTROLYSER AND ENERGY SYSTEM**

[54] **ELECTROLYSEUR ET SYSTEME ENERGETIQUE**

[72] JOOS, NATHANIEL IAN, CA
[72] CARGNELLI, JOSEPH, CA
[73] HYDROGENICS CORPORATION, CA
[86] (3101570)
[87] (3101570)
[22] 2013-05-27
[62] 2,874,782
[30] US (61/652,263) 2012-05-28

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[11] **3,101,855**
[13] C

[51] **Int.Cl. C11B 1/02 (2006.01) A23K 10/12 (2016.01) A23K 10/20 (2016.01) A23K 50/10 (2016.01) C11B 1/10 (2006.01)**

[25] EN

[54] **METHOD OF ISOLATING LIPIDS FROM A LIPIDS CONTAINING BIOMASS WITH AID OF HYDROPHOBIC SILICA**

[54] **PROCEDE D'ISOLEMENT DE LIPIDES A PARTIR D'UNE BIOMASSE CONTENANT DES LIPIDES A L'AIDE DE SILICE HYDROPHOBE**

[72] HEINING, MARTIN, DE
[72] HEINING, ANNIKA, DE
[73] EVONIK OPERATIONS GMBH, DE
[73] DSM IP ASSETS B.V., NL
[85] 2020-11-16
[86] 2019-05-07 (PCT/EP2019/061629)
[87] (WO2019/219443)
[30] EP (18172317.2) 2018-05-15

[11] **3,102,712**
[13] C

[51] **Int.Cl. F25D 13/00 (2006.01) F16B 5/00 (2006.01) F16L 59/05 (2006.01) F16S 1/02 (2006.01) F16S 1/12 (2006.01) F25D 23/00 (2006.01)**

[25] EN

[54] **INSULATED PANEL STRUCTURE**

[54] **STRUCTURE DE PANNEAU ISOLEE**

[72] GINGRAS, JEAN-PIERRE, CA
[73] SYSTEMES NORBEC INC., CA
[86] (3102712)
[87] (3102712)
[22] 2020-12-15
[30] US (63015060) 2020-04-24

[11] **3,103,094**
[13] C

[51] **Int.Cl. B65G 17/38 (2006.01) B65G 17/06 (2006.01) B65G 17/40 (2006.01)**

[25] EN

[54] **ANTI-SURGE DOG LINK FOR A SHARP CHAIN CONVEYOR**

[54] **MAILLON ANTI-SURTENSION POUR UN LONG CONVOYEUR A CHAINE**

[72] ALSUP, RAYMOND LEE, US
[72] BEWLEY, STEVEN DWAYNE, US
[72] BURGNER, GERALD ALAN, US
[72] CREEKMORE, MICHAEL LYNN, US
[72] FINN, DAVID A., US
[72] HIETT, ROBERT W., US
[72] KENDRICK, SABRINA LYNN, US
[72] LILLEY, RAYMOND D., US
[72] CHAMBERS, KELLY APRIL, US
[72] ROBERSON, RUSSELL KYLE, US
[72] ROGERS, MATTHEW S., US
[72] STARK, TIM MAJOR, US
[72] TEAGUE, TOMMY RONALD, US
[73] OMEGA SOLUTIONS, INC., US
[86] (3103094)
[87] (3103094)
[22] 2020-12-18
[30] US (16/720,591) 2019-12-19

[11] **3,103,317**
[13] C

[51] **Int.Cl. B62D 55/07 (2006.01) B60N 3/06 (2006.01) B62D 25/22 (2006.01) B62J 25/00 (2020.01)**

[25] EN

[54] **FOOTREST SYSTEM FOR A SNOWMOBILE HAVING SNOW EVACUATION**

[54] **SYSTEME DE REPOSE-PIEDS POUR UNE MOTONEIGE DOTEE D'UN SYSTEME D'EVACUATION DE NEIGE**

[72] HEDLUND, MICHAEL A., US
[73] POLARIS INDUSTRIES INC., US
[86] (3103317)
[87] (3103317)
[22] 2020-12-18
[30] US (16/723777) 2019-12-20

[11] **3,104,494**
[13] C

[51] **Int.Cl. A47L 11/30 (2006.01) A47L 5/30 (2006.01) A47L 7/00 (2006.01) A47L 9/00 (2006.01) A47L 9/28 (2006.01) A47L 11/34 (2006.01)**

[25] EN

[54] **SURFACE CLEANING APPARATUS**

[54] **APPAREIL DE NETTOYAGE DE SURFACE**

[72] BOLES, JACOB S., US
[72] RESCH, JACOB, US
[73] BISSELL, INC., US
[86] (3104494)
[87] (3104494)
[22] 2020-01-07
[62] 3,066,796
[30] US (62/789,661) 2019-01-08

[11] **3,104,823**
[13] C

[51] **Int.Cl. G06F 21/31 (2013.01) H04W 12/06 (2021.01) H04W 4/029 (2018.01) H04L 43/0876 (2022.01) H04L 12/28 (2006.01)**

[25] EN

[54] **NETWORK ACTIVITY VALIDATION**

[54] **VALIDATION D'ACTIVITE DE RESEAU**

[72] CORRENTI, MATTHEW DANIEL, US
[72] PICARDI, ROBERT NATHAN, US
[73] ALARM.COM INCORPORATED, US
[85] 2020-12-22
[86] 2019-06-25 (PCT/US2019/038954)
[87] (WO2020/005919)
[30] US (62/689,431) 2018-06-25

[11] **3,105,098**
[13] C

[51] **Int.Cl. B60R 9/00 (2006.01) B60F 5/00 (2006.01) B60N 3/06 (2006.01)**

[25] EN

[54] **ATV HAVING A HAND GRIP ARRANGEMENT FOR A PASSENGER**

[54] **VTT AYANT UNE CONFIGURATION DE POIGNEE POUR UN PASSAGER**

[72] RIPLEY, RICHARD D., US
[72] SUNSDAHL, ROY A., US
[72] TAYLOR, SCOTT D., US
[73] POLARIS INDUSTRIES INC., US
[86] (3105098)
[87] (3105098)
[22] 2009-02-03
[62] 3,022,732
[30] US (12/012587) 2008-02-04

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[11] **3,105,363**

[13] C

- [51] **Int.Cl. G06F 9/44 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OFFLOADING APPLICATION EXTENSION SCRIPT EXECUTION FROM APPLICATION HOSTING INFRASTRUCTURE**
[54] **SYSTEME ET METHODE POUR DECHARGER L'EXECUTION DE SCRIPT D'EXTENSION DE L'APPLICATION DE L'INFRASTRUCTURE D'HEBERGEMENT DE L'APPLICATION**
[72] CAMERON, DAVID, CA
[72] DICKINSON, JONATHAN MITCHELL, CA
[73] SHOPIFY INC., CA
[86] (3105363)
[87] (3105363)
[22] 2021-01-06
[30] US (62/971614) 2020-02-07
[30] US (16/820920) 2020-03-17
[30] EP (20215759.0) 2020-12-18

[11] **3,105,386**

[13] C

- [51] **Int.Cl. H04W 74/08 (2009.01)**
[25] EN
[54] **LINK RECOVERY IN WIRELESS COMMUNICATIONS**
[54] **RECUPERATION DE LIEN DANS DES COMMUNICATIONS SANS FIL**
[72] GAO, BO, CN
[72] CHEN, YIJIAN, CN
[72] ZHANG, SHUJUAN, CN
[72] LU, ZHAOHUA, CN
[73] ZTE CORPORATION, CN
[85] 2020-12-30
[86] 2018-08-07 (PCT/CN2018/099223)
[87] (WO2020/029083)

[11] **3,105,536**

[13] C

- [51] **Int.Cl. G01D 5/22 (2006.01) B23K 9/095 (2006.01) H01F 5/00 (2006.01)**
[25] EN
[54] **INDUCTIVE POSITION SENSOR WITH SWITCH FUNCTION**
[54] **CAPTEUR DE POSITION INDUCTIF A FONCTION DE COMMUTATION**
[72] HOEGER, MICHAEL V., US
[73] ILLINOIS TOOL WORKS INC., US
[86] (3105536)
[87] (3105536)
[22] 2021-01-11
[30] US (16/777,185) 2020-01-30

[11] **3,105,634**

[13] C

- [51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**
[25] FR
[54] **MEASURING ARM WITH MULTI-FUNCTION END**
[54] **BRAS DE MESURE AVEC EXTREMITE MULTIFONCTION**
[72] DESFORGES, LAURENT, FR
[72] DUPORTAL, THIBAUT, FR
[72] ROUX, DENIS, FR
[72] FAMECHON, JEAN-LUC, FR
[72] INGLIS, WES, US
[73] HEXAGON METROLOGY SAS, FR
[85] 2021-01-05
[86] 2019-07-04 (PCT/EP2019/068018)
[87] (WO2020/007992)
[30] FR (1856257) 2018-07-06

[11] **3,105,639**

[13] C

- [51] **Int.Cl. G01B 21/04 (2006.01) G01B 5/008 (2006.01) G01B 5/012 (2006.01) G01B 11/00 (2006.01)**
[25] FR
[54] **MEASURING ARM HAVING A MULTI-FUNCTIONAL END**
[54] **BRAS DE MESURE AVEC EXTREMITE MULTIFONCTION**
[72] DESFORGES, LAURENT, FR
[72] DUPORTAL, THIBAUT, FR
[72] ROUX, DENIS, FR
[72] FAMECHON, JEAN-LUC, FR
[72] INGLIS, WES, US
[73] HEXAGON METROLOGY SAS, FR
[85] 2021-01-05
[86] 2019-07-04 (PCT/EP2019/068019)
[87] (WO2020/007993)
[30] FR (1856255) 2018-07-06

[11] **3,105,868**

[13] C

- [51] **Int.Cl. H02J 7/14 (2006.01) B23K 9/10 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS TO CONTROL AN OUTPUT OF A SWITCHED MODE POWER SUPPLY IN A SERVICE PACK**
[54] **PROCEDES ET APPAREIL POUR COMMANDER UNE SORTIE D'UNE ALIMENTATION A DECOUPAGE DANS UN BLOC DE SERVICE**
[72] SMITH, ALAN F., US
[72] JOYCE, RICHARD, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2021-01-06
[86] 2019-07-17 (PCT/US2019/042157)
[87] (WO2020/018641)
[30] US (62/700,030) 2018-07-18
[30] US (16/513,133) 2019-07-16

[11] **3,105,895**

[13] C

- [51] **Int.Cl. H04W 72/231 (2023.01) H04W 76/28 (2018.01)**
[25] EN
[54] **CHANNEL DETECTION INDICATION METHOD, TERMINAL, AND NETWORK DEVICE**
[54] **METHODE D'INDICATION DE LA DETECTION D'UN CANAL, TERMINAL ET DISPOSITIF RESEAU**
[72] JIANG, DAJIE, CN
[72] PAN, XUEMING, CN
[73] VIVO MOBILE COMMUNICATION CO., LTD., CN
[85] 2021-01-07
[86] 2019-07-19 (PCT/CN2019/096688)
[87] (WO2020/015723)
[30] CN (201810806639.7) 2018-07-20

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[11] **3,105,917**
[13] C

[51] **Int.Cl. E04G 21/24 (2006.01)**
[25] EN
[54] **COLUMN CLIMBING BUILDING SITE PROTECTION DEVICE, SYSTEM AND METHOD**
[54] **DISPOSITIF DE PROTECTION DE CHANTIER DE CONSTRUCTION POUR L'ESCALADE DE COLONNE, SYSTEME ET METHODE**
[72] WALRAVEN, GARRETT, US
[73] WALRAVEN, GARRETT, US
[86] (3105917)
[87] (3105917)
[22] 2021-01-15
[30] US (62/962,261) 2020-01-17

[11] **3,106,595**
[13] C

[51] **Int.Cl. F16L 21/06 (2006.01) F16L 3/10 (2006.01)**
[25] EN
[54] **CLAMPING STRAP FOR MOUNTING A COMPONENT**
[54] **BANDE DE CERCLAGE DE SERRAGE POUR LE MONTAGE D'UN COMPOSANT**
[72] HEYWOOD, JONATHAN, CN
[72] LIANG, MINGHUI, CN
[72] HAO, DEGANG, CN
[72] MA, RUFEL, CN
[73] NORMA CHINA CO., LTD., CN
[85] 2021-01-15
[86] 2019-09-18 (PCT/CN2019/106428)
[87] (WO2020/057547)
[30] CN (201811100756.8) 2018-09-20

[11] **3,107,133**
[13] C

[51] **Int.Cl. A61K 31/506 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING NONALCOHOLIC STEATOHEPATITIS**
[54] **COMPOSITION PHARMACEUTIQUE POUR LA PREVENTION OU LE TRAITEMENT DE LA STEATOHEPATITE NON ALCOOLIQUE**
[72] KIM, JAE-SUN, KR
[72] RYU, HYUNG-CHUL, KR
[72] LIM, JEE-WOONG, KR
[72] JOUNG, JUNG-GUN, KR
[72] KIM, SUN-JOO, KR
[72] SON, YEON-WOO, KR
[72] KIM, HYUNG-JUN, KR
[72] SONG, WENLING, KR
[73] J2H BIOTECH INC., KR
[85] 2021-01-20
[86] 2019-07-19 (PCT/KR2019/008963)
[87] (WO2020/022708)
[30] KR (10-2018-0085431) 2018-07-23

[11] **3,107,307**
[13] C

[51] **Int.Cl. F04D 15/00 (2006.01) E21B 43/12 (2006.01) F04D 13/10 (2006.01)**
[25] EN
[54] **SENSING A ROTATION SPEED AND ROTATION DIRECTION OF A MOTOR SHAFT IN AN ELECTRIC SUBMERSIBLE PUMP POSITIONED IN A WELLBORE OF A GEOLOGICAL FORMATION**
[54] **DETECTION D'UNE VITESSE DE ROTATION ET D'UNE DIRECTION DE ROTATION D'UN ARBRE DE MOTEUR DANS UNE POMPE SUBMERSIBLE ELECTRIQUE POSITIONNEE DANS UN Puits DE FORAGE D'UNE FORMATION GEOLOGIQUE**
[72] COURTWRIGHT, TYLER CLAY, US
[72] ASHBAUGH, RYAN BRIDWELL, US
[72] CAMPBELL, DUSTIN BOSWORTH, US
[72] PALMGREN, CARL ALBERT, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-01-21
[86] 2018-12-28 (PCT/US2018/067851)
[87] (WO2020/139368)

[11] **3,107,699**
[13] C

[51] **Int.Cl. B26B 13/28 (2006.01) A01G 3/02 (2006.01) A61B 17/3201 (2006.01)**
[25] EN
[54] **HAND OPERATED SHEARING TOOL**
[54] **OUTIL DE CISAILLEMENT A ACTIONNEMENT MANUEL**
[72] LINDEN, OLAVI, FI
[73] FISKARS FINLAND OY AB, FI
[85] 2021-01-26
[86] 2019-06-11 (PCT/FI2019/050449)
[87] (WO2020/021159)
[30] FI (20185661) 2018-07-27

[11] **3,108,327**
[13] C

[51] **Int.Cl. E04D 1/18 (2006.01) E01C 5/16 (2006.01) E04D 3/362 (2006.01) E04F 15/06 (2006.01)**
[25] EN
[54] **CORROSION-RESISTANT TILE**
[54] **CARREAU RESISTANT A LA CORROSION**
[72] ZHANG, SHUNYING, CN
[72] BAO, WEIJUN, CN
[73] ZHANG, SHUNYING, CN
[85] 2021-02-23
[86] 2020-03-09 (PCT/CN2020/078375)
[87] (WO2021/159572)
[30] CN (202010089083.1) 2020-02-12

[11] **3,108,510**
[13] C

[51] **Int.Cl. A61F 2/07 (2013.01) A61F 2/95 (2013.01) A61M 25/01 (2006.01)**
[25] EN
[54] **PIVOT DELIVERY SYSTEM FOR IMPLANTABLE MEDICAL DEVICE**
[54] **SYSTEME DE LIBERATION A PIVOT POUR UN APPAREIL MEDICAL IMPLANTABLE**
[72] WIEHN, MICHAEL T., US
[72] WIEHN, TAYLOR B., US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2021-02-02
[86] 2018-08-31 (PCT/US2018/049057)
[87] (WO2020/046365)

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[11] **3,108,564**

[13] C

- [51] **Int.Cl. C08G 65/48 (2006.01) C08L 71/00 (2006.01)**
[25] EN
[54] **CROSSLINKING OF POLYARYLEETHERKETONES**
[54] **RETICULATION DE POLYARYLEETHERCETONES**
[72] SCHAUBER, THOMAS, DE
[72] SUTTER, MARCO, DE
[72] ZELLER, ANKE, DE
[72] TRUXIUS, KIRA, DE
[72] KRAFFT, CHRISTOPH, DE
[72] SCHMALZEL, IVAN, DE
[72] SCHMITT, MICHAEL, DE
[72] NIKLAS, MIRCO, DE
[72] BEHLE, STEFAN, DE
[72] WENZEL, JUERGEN, DE
[72] HAVEMANN, BERND, DE
[73] FREUDENBERG SE, DE
[85] 2021-02-03
[86] 2019-08-05 (PCT/EP2019/071035)
[87] (WO2020/030599)
[30] DE (10 2018 119 446.3) 2018-08-09

[11] **3,108,601**

[13] C

- [51] **Int.Cl. G06N 20/00 (2019.01) G01V 9/00 (2006.01)**
[25] EN
[54] **FACILITATING HYDROCARBON EXPLORATION FROM EARTH SYSTEM MODELS**
[54] **FACILITATION DE LA PROSPECTION D'HYDROCARBURES A PARTIR DE MODELES DE SYSTEME TERRESTRE**
[72] DAVIES, ANDREW, GB
[72] ATAR, ELIZABETH, GB
[72] ZEFREH, MASOUD GHADERI, GB
[72] BAINES, GRAHAM, GB
[72] GRESELLE, BENJAMIN, GB
[73] LANDMARK GRAPHICS CORPORATION, US
[86] (3108601)
[87] (3108601)
[22] 2021-02-11
[30] US (16/881,166) 2020-05-22

[11] **3,108,787**

[13] C

- [51] **Int.Cl. H04L 69/326 (2022.01) H04L 69/08 (2022.01) H04L 69/16 (2022.01) H04L 67/10 (2022.01)**
[25] EN
[54] **USER DATAGRAM PROTOCOL TUNNELING IN DISTRIBUTED APPLICATION INSTANCES**
[54] **TUNNELISATION DE PROTOCOLE DE DATAGRAMME D'UTILISATEUR DANS DES INSTANCES D'APPLICATIONS DISTRIBUEES**
[72] NGO, THANH Q., US
[72] REVITCH, SAMUEL, US
[73] DH2I COMPANY, US
[85] 2021-02-04
[86] 2019-08-07 (PCT/US2019/045431)
[87] (WO2020/033494)
[30] US (62/715,361) 2018-08-07
[30] US (62/715,367) 2018-08-07
[30] US (62/716,562) 2018-08-09
[30] US (62/717,194) 2018-08-10
[30] US (62/723,373) 2018-08-27
[30] US (16/532,677) 2019-08-06
[30] US (16/532,727) 2019-08-06
[30] US (16/532,764) 2019-08-06

[11] **3,108,861**

[13] C

- [51] **Int.Cl. G01N 1/40 (2006.01) G01N 1/00 (2006.01) G01N 15/06 (2006.01) G01N 21/27 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR DETERMINING THE CONCENTRATION OF ANALYTES IN A SAMPLE**
[54] **PROCEDE ET DISPOSITIF POUR DETERMINER LA CONCENTRATION D'ANALYTES DANS UN ECHANTILLON**
[72] MS, RAGAVENDAR, IN
[72] AZHAR, MOHIUDEEN, IN
[72] MEHTA, KALPESH, IN
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2021-02-05
[86] 2019-07-31 (PCT/US2019/044375)
[87] (WO2020/033203)
[30] US (62/716,441) 2018-08-09

[11] **3,109,250**

[13] C

- [51] **Int.Cl. E21B 47/09 (2012.01) E21B 41/00 (2006.01) E21B 44/02 (2006.01) E21B 47/022 (2012.01)**
[25] EN
[54] **DOWNHOLE TOOL DYNAMIC AND MOTION MEASUREMENT WITH MULTIPLE ULTRASOUND TRANSDUCER**
[54] **MESURE DYNAMIQUE ET DE MOUVEMENT D'OUTIL DE FOND DE TROU A MULTIPLES TRANSDUCTEURS ULTRASONORES**
[72] LI, PENG, US
[72] WENG, YU, US
[72] CHANG, CHUNG, US
[72] MARLOW, RODNEY, US
[72] WIECEK, BOGUSLAW, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-02-09
[86] 2019-09-25 (PCT/US2019/052979)
[87] (WO2020/081206)
[30] US (62/746,461) 2018-10-16
[30] US (16/579,793) 2019-09-23

[11] **3,109,268**

[13] C

- [51] **Int.Cl. G01F 25/10 (2022.01) G01F 1/84 (2006.01)**
[25] EN
[54] **METHOD TO DETERMINE WHEN TO VERIFY A STIFFNESS COEFFICIENT OF A FLOWMETER**
[54] **PROCEDE DE DETERMINATION DE L'INSTANT DE VERIFICATION D'UN COEFFICIENT DE RAIDEUR D'UN DEBITMETRE**
[72] MCANALLY, CRAIG B., US
[72] DOWNING, BERT J., US
[73] MICRO MOTION, INC., US
[85] 2021-02-10
[86] 2018-08-13 (PCT/US2018/046484)
[87] (WO2020/036578)

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[11] **3,109,633**
[13] C

[51] **Int.Cl. A61F 2/07 (2013.01) A61F 2/848 (2013.01)**
[25] EN
[54] **STENT GRAFT DEVICE WITH ANCHORING MEMBERS HAVING ADJUSTABLE GEOMETRIES**
[54] **DISPOSITIF DE GREFFE D'ENDOPROTHESE PRESENTANT DES ELEMENTS D'ANCRAGE PRESENTANT DES GEOMETRIES REGLABLES**
[72] MICHALAK, CHRISTOPHER S., US
[73] W. L. GORE & ASSOCIATES, INC., US
[86] (3109633)
[87] (3109633)
[22] 2016-05-24
[62] 2,980,676
[30] US (62/166,756) 2015-05-27
[30] US (15/161,569) 2016-05-23

[11] **3,110,415**
[13] C

[51] **Int.Cl. B29C 48/90 (2019.01) B29C 48/11 (2019.01)**
[25] EN
[54] **SIZER FOR AN EXTRUSION MACHINE WITH IMPROVED COOLING AND VACUUM CHANNELS**
[54] **CALIBREUR POUR UNE MACHINE D'EXTRUSION AYANT DES CANAUX DE REFROIDISSEMENT ET DE VIDE AMELIORES**
[72] DHANAPAL, VICKRAM, US
[72] ONEY, GARY, US
[72] MAY, ROGER, US
[72] KIMMES, TROY, US
[73] ENGINEERED PROFILES LLC, US
[85] 2021-02-22
[86] 2019-09-10 (PCT/US2019/050348)
[87] (WO2020/055823)
[30] US (62/729,789) 2018-09-11

[11] **3,110,632**
[13] C

[51] **Int.Cl. A01C 17/00 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING THE INFLUENCE OF THE INCLINATION OF AN AGRICULTURAL SPREADING DEVICE ON THE DISTRIBUTION OF THE MATERIAL TO BE SPREAD**
[54] **PROCEDE DE DETECTION DE L'INFLUENCE DE L'INCLINAISON D'UN ENGIN D'EPANDAGE AGRICOLE SUR LA REPARTITION DU PRODUIT A EPANDRE**
[72] RAHE, FLORIAN, DE
[72] KLEINE-HARTLAGE, HUBERTUS, DE
[72] JOHANNABER, STEFAN JAN, DE
[72] ALBERT, JORN, DE
[73] AMAZONEN-WERKE H. DREYER GMBH & CO. KG, DE
[85] 2021-02-24
[86] 2019-08-27 (PCT/EP2019/072777)
[87] (WO2020/043694)
[30] DE (10 2018 120 948.7) 2018-08-28
[30] EP (19401031.0) 2019-08-22

[11] **3,111,109**
[13] C

[51] **Int.Cl. C22C 38/06 (2006.01) B21B 1/00 (2006.01) B65B 25/00 (2006.01) B65B 25/24 (2006.01) C21D 8/02 (2006.01) C22C 38/04 (2006.01)**
[25] EN
[54] **PACKAGING SHEET METAL PRODUCT**
[54] **PRODUIT DE TOLE D'EMBALLAGE**
[72] KAUP, BURKHARD, DE
[72] HEINE, LUISA-MARIE, DE
[72] MASSICOT, BLAISE, DE
[73] THYSSENKRUPP RASSELSTEIN GMBH, DE
[86] (3111109)
[87] (3111109)
[22] 2021-03-03
[30] DE (10 2020 126 437.2) 2020-10-08
[30] DE (10 2020 106 164.1) 2020-03-06

[11] **3,111,132**
[13] C

[51] **Int.Cl. C07C 237/06 (2006.01) C07C 231/14 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING 2-AMINO-N-(2,2,2-TRIFLUOROETHYL)ACETAMIDE**
[54] **PROCEDE DE PREPARATION DE 2-AMINO-N-(2,2,2-TRIFLUOROETHYL)ACETAMIDE**
[72] BRUENING, JOERG, US
[73] E.I. DU PONT DE NEMOURS AND COMPANY, US
[86] (3111132)
[87] (3111132)
[22] 2011-09-23
[62] 3,021,290
[30] US (61/386,673) 2010-09-27

[11] **3,111,267**
[13] C

[51] **Int.Cl. F21V 21/08 (2006.01)**
[25] EN
[54] **REVERSIBLE MOUNTING ARM FOR POLE-MOUNTED LIGHT FIXTURES**
[54] **BRAS DE MONTAGE REVERSIBLE POUR LES APPAREILS D'ECLAIRAGE MONTES SUR POTEAU**
[72] GIBSON, JON ERIC, US
[72] CHANG, ERIC, US
[73] ABL IP HOLDING LLC, US
[86] (3111267)
[87] (3111267)
[22] 2021-03-04
[30] US (17/144,603) 2021-01-08

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[11] **3,111,860**
[13] C

[51] **Int.Cl. B21C 47/18 (2006.01) B21C 47/34 (2006.01)**

[25] EN

[54] **SYSTEM FOR AND METHOD OF THREADING A METAL SUBSTRATE ON A ROLLING MILL**

[54] **SYSTEME ET PROCEDE DE FILETAGE D'UN SUBSTRAT METALLIQUE SUR UN LAMINOIR**

[72] HOBBS, ANDREW JAMES, US

[72] PRALONG, ANTOINE JEAN WILLY, US

[72] MICK, STEPHEN LEE, US

[72] BROWN, RODGER, US

[72] FINN, MARK, US

[72] KNELSEN, PETER, US

[72] LEE, TERRY, US

[72] ALDER, HANSJUERG, US

[72] BECK, WILLIAM, US

[72] QUINTAL, ROBERTO, US

[72] IYER, NATASHA, US

[72] GEHO, JEFFREY EDWARD, US

[73] NOVELIS INC., US

[86] (3111860)

[87] (3111860)

[22] 2017-09-27

[62] 3,012,495

[30] US (62/400,426) 2016-09-27

[30] US (62/505,948) 2017-05-14

[11] **3,112,018**
[13] C

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

[25] FR

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

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

[72] EGLIN, PAUL, FR

[72] HUOT, REMY, FR

[73] AIRBUS HELICOPTERS, FR

[86] (3112018)

[87] (3112018)

[22] 2021-03-15

[30] FR (2002607) 2020-03-17

[11] **3,112,281**
[13] C

[51] **Int.Cl. H02J 50/80 (2016.01) H02J 7/00 (2006.01)**

[25] EN

[54] **WIRELESS CHARGING METHOD AND ELECTRONIC DEVICE**

[54] **PROCEDE DE CHARGE SANS FIL ET DISPOSITIF ELECTRONIQUE**

[72] YU, WENCHAO, CN

[72] GAO, HAIZHEN, CN

[72] YANG, LVJIAN, CN

[72] CHEN, JIANG, CN

[72] WANG, HUI, CN

[73] HUawei TECHNOLOGIES CO., LTD., CN

[85] 2021-03-09

[86] 2018-09-29 (PCT/CN2018/108729)

[87] (WO2020/062159)

[11] **3,112,388**
[13] C

[51] **Int.Cl. G06F 9/455 (2018.01) G06F 21/12 (2013.01) G06F 21/30 (2013.01) G06F 21/60 (2013.01) G06F 21/62 (2013.01)**

[25] EN

[54] **COMPUTING SYSTEM PROVIDING SAAS APPLICATION ACCESS WITH DIFFERENT CAPABILITIES BASED UPON USER PERSONAS**

[54] **SYSTEME INFORMATIQUE FOURNISSANT UN ACCES A UNE APPLICATION SAAS AYANT DIFFERENTES CAPACITES SUR LA BASE DE IDENTITES DE L'UTILISATEUR**

[72] VAN ROTTERDAM, JEROEN, US

[72] MOMCHILOV, GEORGY, US

[73] CITRIX SYSTEMS, INC., US

[85] 2021-03-10

[86] 2019-08-06 (PCT/US2019/045194)

[87] (WO2020/076405)

[30] US (16/156,256) 2018-10-10

[11] **3,112,505**
[13] C

[51] **Int.Cl. A01N 1/02 (2006.01) C12N 5/0775 (2010.01)**

[25] EN

[54] **METHOD FOR OBTAINING AN ENRICHED POPULATION OF FUNCTIONAL MESENCHYMAL STEM CELLS, CELLS OBTAINED THEREOF AND COMPOSITIONS COMPRISING THE SAME**

[54] **PROCEDE D'OBTENTION D'UNE POPULATION ENRICHIE DE CELLULES SOUCHES MESENCHYMATEUSES FONCTIONNELLES, CELLULES OBTENUES A PARTIR DE CE DERNIER ET COMPOSITIONS LES COMPRENANT**

[72] SANCHEZ GARCIA, ANA, ES

[72] GARCIA-SANCHO MARTIN, FRANCISCO JAVIER, ES

[72] GARCIA DIAZ, VERONICA, ES

[72] ALBERCA ZABALLOS, MERCEDES, ES

[72] GUEMES GUTIERREZ, SANDRA, ES

[73] CITOSPIN, S.L., ES

[73] UNIVERSIDAD DE VALLADOLID, ES

[85] 2021-03-11

[86] 2019-09-18 (PCT/EP2019/074991)

[87] (WO2020/058324)

[30] EP (18382679.1) 2018-09-20

[11] **3,112,766**
[13] C

[51] **Int.Cl. G03B 27/32 (2006.01) H04N 1/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ENLARGING DIGITAL PHOTOGRAPHS ON PHOTOGRAPHIC PAPER**

[54] **APPAREIL ET PROCEDE POUR AGRANDIR DES PHOTOGRAPHIES NUMERIQUES SUR PAPIER PHOTOGRAPHIQUE**

[72] SCHWARTZ, MATTHEW L., US

[73] CHARLES BESELER COMPANY, US

[85] 2021-03-12

[86] 2019-09-12 (PCT/US2019/050819)

[87] (WO2020/056142)

[30] US (62/730,708) 2018-09-13

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[11] **3,113,066**
[13] C

[51] **Int.Cl. B25B 27/02 (2006.01) B66F 15/00 (2006.01) E01C 9/08 (2006.01) H02G 3/30 (2006.01) H02G 3/36 (2006.01) H02G 9/02 (2006.01) H02G 9/04 (2006.01)**

[25] EN

[54] **DISCONNECT SYSTEM FOR AN AUXILIARY SIDE RAMP FOR A MODULAR CABLE PROTECTOR**

[54] **SYSTEME DE DECONNEXION POUR RAMPE LATERALE AUXILIAIRE POUR UN PROTECTEUR DE CABLE MODULAIRE**

[72] HENRY, STEPHEN K., US
[73] HENRY, STEPHEN K., US
[85] 2021-03-16
[86] 2019-09-06 (PCT/US2019/049950)
[87] (WO2020/060776)
[30] US (62/732,147) 2018-09-17
[30] US (16/549,319) 2019-08-23

[11] **3,113,746**
[13] C

[51] **Int.Cl. C21D 8/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/16 (2006.01) C22C 38/20 (2006.01) C22C 38/22 (2006.01) C22C 38/24 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01)**

[25] EN

[54] **HOT ROLLED STEEL AND A METHOD OF MANUFACTURING THEREOF**

[54] **ACIER LAMINE A CHAUD ET SON PROCEDE DE FABRICATION**

[72] DE STRYCKER, JOOST, BE
[72] VAN DEN BERGH, KRISTA, BE
[72] VEYS, XAVIER, BE
[72] FERNANDEZ MACIA, LUCIA, BE
[72] GUNGOR AYAS, OZLEM, BE
[72] LIEBEHERR, MARTIN, BE
[73] ARCELORMITTAL, LU
[85] 2021-03-22
[86] 2019-10-22 (PCT/IB2019/059001)
[87] (WO2020/084478)
[30] IB (PCT/IB2018/058255) 2018-10-23

[11] **3,113,998**
[13] C

[51] **Int.Cl. B41J 2/175 (2006.01) G06F 21/44 (2013.01) G06F 21/84 (2013.01) G06F 13/00 (2006.01) G06K 15/00 (2006.01) G11C 8/00 (2006.01) H04N 1/32 (2006.01)**

[25] EN

[54] **LOGIC CIRCUITRY**

[54] **CIRCUITERIE LOGIQUE**

[72] PANSHIN, STEPHEN D., US
[72] WARD, JEFFERSON P., US
[72] LINN, SCOTT A., US
[72] GARDNER, JAMES MICHAEL, US
[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US
[85] 2021-03-23
[86] 2018-12-03 (PCT/US2018/063631)
[87] (WO2020/117195)

[11] **3,114,001**
[13] C

[51] **Int.Cl. G06F 13/42 (2006.01) B41J 2/175 (2006.01)**

[25] EN

[54] **LOGIC CIRCUITRY**

[54] **ENSEMBLE DE CIRCUITS LOGIQUES**

[72] PANSHIN, STEPHEN D., US
[72] LINN, SCOTT A., US
[73] HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., US
[85] 2021-03-23
[86] 2018-12-03 (PCT/US2018/063633)
[87] (WO2020/117196)

[11] **3,114,360**
[13] C

[51] **Int.Cl. G01L 7/02 (2006.01) G01L 19/08 (2006.01) G01L 19/14 (2006.01)**

[25] EN

[54] **NON-INTRUSIVE PROCESS FLUID PRESSURE MEASUREMENT SYSTEM**

[54] **SYSTEME DE MESURE NON INTRUSIVE DE PRESSION DE FLUIDE DE PROCESSUS**

[72] WILLCOX, CHARLES R., US
[73] ROSEMOUNT INC., US
[85] 2021-03-25
[86] 2019-09-24 (PCT/US2019/052639)
[87] (WO2020/068781)
[30] US (16/146,134) 2018-09-28

[11] **3,114,499**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01) F04B 23/00 (2006.01) F04B 49/06 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS OF UTILIZATION OF A HYDRAULIC FRACTURING UNIT PROFILE TO OPERATE HYDRAULIC FRACTURINGS UNITS**

[54] **SYSTEMES ET METHODES D'UTILISATION D'UN PROFIL D'UNITE DE FACTURATION HYDRAULIQUE POUR FAIRE FONCTIONNER DES UNITES DE FRACTURATION HYDRAULIQUE**

[72] YEUNG, TONY, US
[72] RODRIGUEZ-RAMON, RICARDO, US
[72] ALVAREZ, ANDRES, US
[72] FOSTER, JOSEPH, US
[73] BJ ENERGY SOLUTIONS, LLC, US
[86] (3114499)
[87] (3114499)
[22] 2021-04-08
[30] US (62/705,357) 2020-06-23
[30] US (62/705,628) 2020-07-08
[30] US (17/301,475) 2021-04-05

[11] **3,114,557**
[13] C

[51] **Int.Cl. E21B 47/12 (2012.01) E21B 34/06 (2006.01)**

[25] EN

[54] **A WELL IN A GEOLOGICAL STRUCTURE**

[54] **PUITS DANS UNE STRUCTURE GEOLOGIQUE**

[72] ROSS, SHAUN COMPTON, GB
[72] JARVIS, LESLIE DAVID, GB
[73] METROL TECHNOLOGY LIMITED, GB
[85] 2021-03-26
[86] 2018-09-18 (PCT/GB2018/052659)
[87] (WO2019/063973)
[30] GB (1715585.4) 2017-09-26

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[11] **3,115,351**
[13] C

- [51] **Int.Cl. A01N 43/36 (2006.01) A01P 1/00 (2006.01) A61L 2/16 (2006.01)**
[25] EN
[54] **AN ANTIMICROBIAL COMPOSITION COMPRISING AN ANTIMICROBIAL AGENT CONSISTING OF A C3-C5 N-ALKYL-GAMMA-BUTYROLACTAM AND USES THEREOF**
[54] **COMPOSITION ANTIMICROBIENNE COMPRENANT UN AGENT ANTIMICROBIEN COMPOSE D'UN N-ALKYLE-GAMMA-BUTYROLACTAME EN C3-C5 ET UTILISATIONS CONNEXES**
[72] ALDERSON, FARAZ A., CA
[73] VIROX TECHNOLOGIES INC., CA
[85] 2021-04-03
[86] 2019-12-04 (PCT/CA2019/051740)
[87] (WO2020/113331)
[30] US (62/774,964) 2018-12-04

[11] **3,115,430**
[13] C

- [51] **Int.Cl. F21K 9/237 (2016.01) F21K 9/232 (2016.01) F21K 9/235 (2016.01) F21V 31/00 (2006.01) F21K 9/69 (2016.01)**
[25] EN
[54] **WATERPROOF LAMP**
[54] **LAMPE IMPERMEABLE**
[72] WU, QINGAN, CN
[72] LIN, XIONGZHONG, CN
[72] HUANG, YAYING, CN
[73] ZHANGZHOU GO WIN LIGHTING CO., LTD, CN
[86] (3115430)
[87] (3115430)
[22] 2021-04-16
[30] CN (202110177591.X) 2021-02-07

[11] **3,115,686**
[13] C

- [51] **Int.Cl. B25B 21/00 (2006.01) B25B 13/46 (2006.01)**
[25] EN
[54] **INLINE RATCHETING MECHANISM**
[54] **MECANISME DE CLIQUETIS EN CONDUITE**
[72] SCHULZ, BEN T., US
[73] SNAP-ON INCORPORATED, US
[86] (3115686)
[87] (3115686)
[22] 2021-04-21
[30] US (16/859,532) 2020-04-27

[11] **3,116,737**
[13] C

- [51] **Int.Cl. H01H 9/54 (2006.01) G01R 31/327 (2006.01) H01H 33/664 (2006.01)**
[25] EN
[54] **MULTIPLE HAMMER BLOW VACUUM INTERRUPTER WELD BREAKING**
[54] **RUPTURE DE SOUDURE D'INTERRUPTEUR SOUS VIDE PAR COUPS DE MARTEAU MULTIPLES**
[72] RUSEV, TSVETAN, US
[72] STAMER, MICHAEL, US
[73] S&C ELECTRIC COMPANY, US
[85] 2021-04-15
[86] 2020-01-16 (PCT/US2020/013853)
[87] (WO2020/159716)
[30] US (62/799,404) 2019-01-31

[11] **3,117,101**
[13] C

- [51] **Int.Cl. F23Q 3/00 (2006.01)**
[25] EN
[54] **GAS APPLIANCE IGNITION MODULE**
[54] **MODULE D'ALLUMAGE D'APPAREIL A GAZ**
[72] BECKER, JAMES, US
[72] KORMAN, CHRISTOPHER, US
[73] CHANNEL PRODUCTS, INC., US
[85] 2021-04-19
[86] 2019-10-18 (PCT/US2019/056911)
[87] (WO2020/081921)
[30] US (62/747,365) 2018-10-18

[11] **3,117,298**
[13] C

- [51] **Int.Cl. G06F 18/20 (2023.01) G06N 3/02 (2006.01) G06Q 40/12 (2023.01)**
[25] EN
[54] **LEARNING USER ACTIONS TO IMPROVE TRANSACTION CATEGORIZATION**
[54] **APPRENTISSAGES DES ACTIONS D'UTILISATEURS POUR AMELIORER LA CATEGORISATION DES TRANSACTIONS**
[72] LIU, JUAN, US
[72] PEI, LEI, US
[72] SUN, YING, US
[73] INTUIT INC., US
[86] (3117298)
[87] (3117298)
[22] 2021-05-06
[30] US (17/162,365) 2021-01-29

[11] **3,117,400**
[13] C

- [51] **Int.Cl. B27N 3/08 (2006.01) B27N 3/18 (2006.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR PRODUCING A THREE-DIMENSIONALLY DEFORMED PLATE**
[54] **PROCEDE ET SYSTEME DE PRODUCTION D'UNE PLAQUE TRIDIMENSIONNELLE DEFORMEE**
[72] HOMANN, FRITZ, DE
[72] WAHLEN, MARKUS, DE
[72] WESSEL, MICHA, DE
[72] SCHULTE, MATTHIAS, DE
[73] HOMANN HOLZWERKSTOFFE GMBH, DE
[86] (3117400)
[87] (3117400)
[22] 2021-05-05
[30] DE (10 2020 113 284.0) 2020-05-15

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[11] **3,118,116**
[13] C

[51] **Int.Cl. G09B 19/00 (2006.01) A47L 13/00 (2006.01) G09B 5/02 (2006.01) G09F 3/00 (2006.01) H04L 12/16 (2006.01)**

[25] EN

[54] **METHOD FOR INTERACTIVE TRAINING IN THE CLEANING OF A ROOM**

[54] **METHODE DE FORMATION INTERACTIVE POUR LE NETTOYAGE D'UNE CHAMBRE**

[72] SCHENK, MATTHEW JON, US
[72] JOHNSTON, SAM MATTHEW, US
[72] POWERS, STEVEN L., US
[73] MIDLAB, INC., US
[86] (3118116)
[87] (3118116)
[22] 2021-05-12
[30] US (16/872,445) 2020-05-12

[11] **3,118,274**
[13] C

[51] **Int.Cl. A01D 34/53 (2006.01) A01D 45/00 (2018.01) A01G 3/00 (2006.01)**

[25] EN

[54] **PLANT TRIMMING APPARATUS AND METHODS**

[54] **APPAREIL ET PROCEDES D'EBRANCHEMENT DE PLANTES**

[72] INGRAM, ERIK, CA
[72] MCKELLAR, AARON, CA
[72] HEYWOOD, JOE, CA
[72] KLOSSOK, RUDI, CA
[73] ETEROS TECHNOLOGIES INC., CA
[86] (3118274)
[87] (3118274)
[22] 2018-10-26
[62] 3,079,205
[30] US (15/796,157) 2017-10-27

[11] **3,118,496**
[13] C

[51] **Int.Cl. F16D 27/14 (2006.01) B60K 25/02 (2006.01) F16D 15/00 (2006.01) F16D 27/10 (2006.01)**

[25] EN

[54] **POWER TRANSMITTING CLUTCH AND DISCONNECT**

[54] **EMBAYAGE ET DEBRAYAGE DE TRANSMISSION DE PUISSANCE**

[72] PALMER, JAMES E., US
[73] THE HILLIARD CORPORATION, US
[86] (3118496)
[87] (3118496)
[22] 2021-05-14
[30] US (16/903,577) 2020-06-17

[11] **3,118,832**
[13] C

[51] **Int.Cl. H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/59 (2014.01)**

[25] EN

[54] **MOVING PICTURE PREDICTION DECODING DEVICE AND METHOD**

[54] **DISPOSITIF ET METHODE DE DECODAGE DE PREDICTION D'UNE IMAGE EN MOUVEMENT**

[72] BOON, CHOONG SENG, JP
[72] SUZUKI, YOSHINORI, JP
[72] TAN, THIOU KENG, JP
[73] NTT DOCOMO, INC., JP
[86] (3118832)
[87] (3118832)
[22] 2013-06-17
[62] 2,957,095
[30] JP (2012-209626) 2012-09-24

[11] **3,119,106**
[13] C

[51] **Int.Cl. A47G 9/10 (2006.01) A47G 9/02 (2006.01)**

[25] EN

[54] **DISPOSABLE HYGIENIC AND ANTI-ALLERGENIC PILLOW PROTECTOR**

[54] **PROTEGE-OREILLER HYGIENIQUE ET ANTIALLERGENE JETABLE**

[72] CHEANG, KUAN HOI, CA
[73] CHEANG, KUAN HOI, CA
[86] (3119106)
[87] (3119106)
[22] 2021-05-18

[11] **3,119,855**
[13] C

[51] **Int.Cl. A01D 34/13 (2006.01)**

[25] EN

[54] **SWITCHABLE CUTTING BLADE PAIRED WITH HARVESTER KNIFE GUARD**

[54] **LAME DE COUPE APPARIEE ET COMMUTABLE DESTINEE A UN PROTECTEUR DE LAME DE MOISSONNEUSE**

[72] YE, KONGMENG, CN
[73] YE, KONGMENG, CN
[85] 2021-05-13
[86] 2018-08-21 (PCT/CN2018/101607)
[87] (WO2020/029323)
[30] CN (201810893050.5) 2018-08-08

[11] **3,120,649**
[13] C

[51] **Int.Cl. B23K 11/00 (2006.01) B23K 11/11 (2006.01) B23K 11/36 (2006.01)**

[25] EN

[54] **RIVET DISPENSING SYSTEMS AND METHODS OF USE THEREOF**

[54] **SYSTEMES DISTRIBUTEURS DE RIVETS ET LEURS PROCEDES D'UTILISATION**

[72] VANDERZWET, DANIEL PETER, CA
[72] BRITTON, SIMON MAURICE, CA
[72] KOSCIELSKI, LARRY FRANK, CA
[72] MICHAUD, ERIC JEAN, CA
[72] SIMONE, DAVID MARIO, CA
[72] SPINELLA, DONALD J., US
[72] IASELLA, GINO N., US
[72] BERGSTROM, DANIEL, US
[72] WILCOX, ROBERT B., US
[72] KINGSBURY, THOMAS R., US
[72] MUSGROVE, GRAHAM SCOTT, US
[73] HOWMET AEROSPACE INC., US
[73] CENTERLINE (WINDSOR) LIMITED, CA
[85] 2021-05-17
[86] 2019-12-13 (PCT/US2019/066133)
[87] (WO2020/123896)
[30] US (62/778,939) 2018-12-13

[11] **3,120,997**
[13] C

[51] **Int.Cl. E21B 21/06 (2006.01) B03C 1/02 (2006.01)**

[25] EN

[54] **ROTATABLE MAGNET CRADLE FOR SWARF SEPARATION**

[54] **BERCEAU MAGNETIQUE ROTATIF POUR SEPARATION DE COPEAUX**

[72] FARQUHAR, MICHAEL J., GB
[72] MACKAY, DEREK, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-05-25
[86] 2019-10-04 (PCT/US2019/054830)
[87] (WO2020/146022)
[30] US (62/789,914) 2019-01-08
[30] US (16/592,700) 2019-10-03

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[11] **3,122,453**
[13] C

[51] **Int.Cl. A01N 57/20 (2006.01) A01N 25/22 (2006.01) A01N 43/80 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **SOLID FORMULATION OF HERBICIDAL COMPOSITION AND PREPARING METHOD THEREOF**

[54] **PREPARATION SOLIDE A PARTIR D'UNE COMPOSITION HERBICIDE ET SON PROCÉDE DE PREPARATION**

[72] CHOU, JINGYU, CN
[72] LI, YANG, CN
[72] CUI, YONG, CN
[72] DONG, GUANGXIN, CN
[72] MI, SHUANG, CN
[72] YANG, JICHUN, CN
[72] LIU, CHANGLING, CN
[73] SHENYANG SINOCEM AGROCHEMICALS R&D CO., LTD., CN

[73] JIANGSU YANGNONG CHEMICAL CO., LTD., CN

[85] 2021-06-08
[86] 2019-11-29 (PCT/CN2019/122000)
[87] (WO2020/119480)
[30] CN (201811533155.6) 2018-12-14

[11] **3,122,539**
[13] C

[51] **Int.Cl. C10G 9/36 (2006.01) C07C 4/04 (2006.01) C10G 9/20 (2006.01)**

[25] EN

[54] **HIGH PRESSURE ETHANE CRACKING WITH SMALL DIAMETER FURNACE TUBES**

[54] **CRAQUAGE D'ETHANE A HAUTE PRESSION AVEC DES TUBES DE FOUR DE PETIT DIAMETRE**

[72] STEPHENS, GEORGE, US
[72] SPICER, DAVID, US
[72] YEO, GREGORY E., US
[72] PHILLIPS, STEPHEN R., US
[73] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2021-06-08
[86] 2019-12-13 (PCT/US2019/066117)
[87] (WO2020/131595)
[30] US (62/782,987) 2018-12-20
[30] EP (19157623.0) 2019-02-18

[11] **3,122,697**
[13] C

[51] **Int.Cl. H04L 41/0677 (2022.01) H04L 43/0829 (2022.01) H04L 43/10 (2022.01) H04L 43/16 (2022.01) H04L 69/16 (2022.01)**

[25] EN

[54] **PACKET LOSS ISOLATION TEST**

[54] **TEST D'ISOLATION DE PERTE DE PAQUETS**

[72] DILLON, DOUGLAS, US
[72] PHAM, ALEX, US
[72] MILLER, DANIEL, US
[73] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2021-06-09
[86] 2019-12-13 (PCT/US2019/066270)
[87] (WO2020/142180)
[30] US (62/786,735) 2018-12-31
[30] US (16/413,743) 2019-05-16

[11] **3,122,817**
[13] C

[51] **Int.Cl. B60P 7/02 (2006.01) B60J 11/06 (2006.01)**

[25] EN

[54] **TONNEAU COVER SYSTEM WITH INSERT FOR SUPPORTING CROSS-BOW MEMBERS**

[54] **SYSTEME DE COUVRE-CAISSE A INSERTS CONCU POUR SOUTENIR LES PARTIES D'UNE ARBALETE**

[72] COHOON, WILLIAM ROY, US
[72] HICKEY, MARK ALAN, US
[73] TECTUM HOLDINGS, INC., US

[86] (3122817)
[87] (3122817)
[22] 2021-06-18
[30] US (16/907,974) 2020-06-22

[11] **3,123,136**
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01)**

[25] EN

[54] **SUPPORT ARM APPARATUS FOR SUPPORTING MEDICAL INSTRUMENT**

[54] **APPAREIL DE BRAS DE SUPPORT UTILISE POUR SUPPORTER UN DISPOSITIF MEDICAL**

[72] CUZNER, ROBERT, CN
[72] TOLLEY, DAVIS, CN
[72] TAYLOR, KYNAN, CN
[72] HSU, POLIN, CN
[72] YEN, IFAN, CN
[73] MAGASSIST, INC., CN

[85] 2021-06-11
[86] 2020-01-17 (PCT/CN2020/072579)
[87] (WO2020/151575)
[30] CN (201910061209.1) 2019-01-23

[11] **3,123,157**
[13] C

[51] **Int.Cl. C10G 11/18 (2006.01) C10G 3/00 (2006.01) C10G 45/00 (2006.01) C10G 45/02 (2006.01) C10G 45/06 (2006.01) C10G 45/10 (2006.01) C10G 45/44 (2006.01) C10G 47/00 (2006.01) C10G 65/02 (2006.01)**

[25] EN

[54] **SELECTIVE HYDROXYL GROUP REMOVAL FROM ALKYLPHENOLS**

[54] **ELIMINATION SELECTIVE DE GROUPES HYDROXYLE D'ALKYLPHENOLS**

[72] LINDBLAD, MARINA, FI
[72] LAMMINPAA, KAISA, FI
[72] GONZALES ESCOBEDO, JOSE LUIS, FI

[72] KARINEN, REETTA, FI
[72] MAKELA, EVELIINA, FI
[72] PUURUNEN, RIIKKA, FI
[73] NESTE OYJ, FI

[85] 2021-06-11
[86] 2019-12-18 (PCT/FI2019/050904)
[87] (WO2020/128161)
[30] FI (20186130) 2018-12-21

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[11] **3,123,754**
[13] C

[51] **Int.Cl. H04W 36/30 (2009.01) H04W 16/22 (2009.01) H04W 36/00 (2009.01)**
[25] FR
[54] **METHOD AND DEVICE FOR ANTICIPATING A RECONNECTION OF A MOBILE STATION**
[54] **PROCEDE ET UN DISPOSITIF D'ANTICIPATION D'UNE RECONNEXION D'UNE STATION MOBILE**
[72] REUCHE, ANTHONY, FR
[73] SAGEMCOM BROADBAND SAS, FR
[85] 2021-06-16
[86] 2019-12-18 (PCT/EP2019/085832)
[87] (WO2020/127410)
[30] FR (1873544) 2018-12-20

[11] **3,124,177**
[13] C

[51] **Int.Cl. G08B 25/00 (2006.01) G08B 21/04 (2006.01)**
[25] FR
[54] **DEVICE AND METHOD FOR MONITORING A SITUATION WITHIN A VOLUME**
[54] **DISPOSITIF ET PROCEDE DE SURVEILLANCE D'UNE SITUATION AU SEIN D'UN VOLUME**
[72] DEBORGIES, LUC, FR
[72] ROCCA, FLORE, FR
[73] KAPELSE, FR
[85] 2021-06-18
[86] 2019-12-16 (PCT/EP2019/085423)
[87] (WO2020/127099)
[30] FR (1873733) 2018-12-21

[11] **3,124,793**
[13] C

[51] **Int.Cl. H04N 13/139 (2018.01) H04N 21/414 (2011.01) H04N 21/4402 (2011.01) H04N 21/443 (2011.01) H04N 21/81 (2011.01)**
[25] EN
[54] **INTEROPERABLE 3D IMAGE CONTENT HANDLING**
[54] **GESTION DE CONTENU D'IMAGE 3D INTEROPERABLE**
[72] BERENDSE, DANNY, NL
[72] DE GROOT, MARK JOSEPHUS GERARDUS, NL
[72] CASTRO THEUNE, PATRIC, NL
[72] HEREDIA SORIANO, FRANCISCO JAVIER, NL
[73] ULTRA-D COOPERATIEF U.A., NL
[85] 2021-06-23
[86] 2020-01-21 (PCT/EP2020/051387)
[87] (WO2020/152150)
[30] EP (19153263.9) 2019-01-23

[11] **3,125,015**
[13] C

[51] **Int.Cl. G06F 40/30 (2020.01) G06F 16/95 (2019.01) G06F 40/279 (2020.01)**
[25] EN
[54] **METHOD OF AND SYSTEM FOR INFERRING USER INTENT IN SEARCH INPUT IN A CONVERSATIONAL INTERACTION SYSTEM**
[54] **PROCEDE ET SYSTEME POUR DEDUIRE UNE INTENTION D'UN UTILISATEUR SUR LA BASE D'UNE RECHERCHE ENTREE DANS UN SYSTEME DE CONVERSATION INTERACTIF**
[72] BARVE, RAKESH, IN
[72] WELLING, GIRISH, US
[72] ARAVAMUDAN, MURALI, US
[72] VENKATARAMAN, SASHIKUMAR, US
[73] VEVEO, INC., US
[86] (3125015)
[87] (3125015)
[22] 2013-07-19
[62] 2,879,778
[30] US (61/673,867) 2012-07-20
[30] US (61/712,721) 2012-10-11
[30] US (13/667,400) 2012-11-02
[30] US (13/667,388) 2012-11-02
[30] US (13/874,523) 2013-05-01

[11] **3,125,734**
[13] C

[51] **Int.Cl. B01D 61/36 (2006.01) B01D 63/02 (2006.01) C02F 1/44 (2006.01)**
[25] EN
[54] **MEMBRANE DISTILLATION MODULE AND MEMBRANE DISTILLATION APPARATUS USING SAME**
[54] **MODULE DE DISTILLATION A MEMBRANE ET APPAREIL DE DISTILLATION A MEMBRANE L'UTILISANT**
[72] HASHIMOTO, TOMOTAKA, JP
[72] ANAN, TOMOYA, JP
[73] ASahi KASEI KAbUSHIKI KAISHA, JP
[85] 2021-07-05
[86] 2020-01-10 (PCT/JP2020/000744)
[87] (WO2020/145401)
[30] JP (2019-003380) 2019-01-11

[11] **3,126,089**
[13] C

[51] **Int.Cl. G06F 16/174 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR STATISTICS-BASED PATTERN SEARCHING OF COMPRESSED DATA AND ENCRYPTED DATA**
[54] **SYSTEME ET PROCEDE DE RECHERCHE DE MOTIF BASEE SUR DES STATISTIQUES DE DONNEES COMPRESSEES ET DE DONNEES CHIFFREES**
[72] DUPONT, NICOLAS THOMAS MATHIEU, US
[72] HELLE, ALEXANDRE, US
[72] CASH, GLENN LAWRENCE, US
[73] CYBORG INC., US
[85] 2021-07-07
[86] 2020-03-02 (PCT/US2020/020652)
[87] (WO2020/180790)
[30] US (62/812,397) 2019-03-01
[30] US (62/819,206) 2019-03-15
[30] US (62/962,492) 2020-01-17

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[11] **3,126,261**
[13] C

[51] **Int.Cl. A47J 27/00 (2006.01) A23L 5/00 (2016.01) A47J 36/00 (2006.01)**

[25] EN

[54] **COOKING DEVICE AND COMPONENTS THEREOF**

[54] **DISPOSITIF DE CUISSON ET COMPOSANTS DE CELUI-CI**

[72] GILL, AARON MICHAEL, US

[72] RICHARDSON, ROSS, US

[72] ZABEL, NAOMI KALIA WILLIAMS, US

[72] DENG, DA, US

[72] GURSEL, METE, TR

[72] TATTERSFIELD, ANDREW JOHN ROY, GB

[72] DENHAM, NIALL CHRISTOPHER, GB

[72] JACKSON, ROGER NEIL, GB

[72] LEAHY, RONAN PATRICK, GB

[72] WHITE, EVAN JAMES, US

[72] GUERIN, THOMAS, US

[72] MARTIN, CHRIS, US

[72] LAVINS, NATHANIEL R., US

[72] SWANHART, MACKENZIE LEE, US

[72] FERGUSON, SAMUEL ANDREW SETON, US

[72] STEWART, SCOTT JAMES, US

[73] SHARKNINJA OPERATING LLC, US

[86] (3126261)

[87] (3126261)

[22] 2018-08-09

[62] 3,067,866

[30] US (62/543,082) 2017-08-09

[11] **3,128,199**
[13] C

[51] **Int.Cl. G05D 29/00 (2006.01) G06F 18/25 (2023.01) G06N 7/08 (2006.01) G05B 19/4063 (2006.01)**

[25] EN

[54] **CHAOTIC SYSTEM ANOMALY RESPONSE BY ARTIFICIAL INTELLIGENCE**

[54] **REPONSE A UNE ANOMALIE DE SYSTEME CHAOTIQUE PAR INTELLIGENCE ARTIFICIELLE**

[72] MURALEEDHARA, KESAVANAND, US

[72] JEDDA, AHMED, CA

[72] PINTO, PAULO, GB

[73] MORGAN STANLEY SERVICES GROUP INC., US

[85] 2021-07-28

[86] 2020-01-30 (PCT/US2020/015932)

[87] (WO2020/160301)

[30] US (16/264,671) 2019-01-31

[11] **3,130,279**
[13] C

[51] **Int.Cl. C09D 201/00 (2006.01) C09D 7/44 (2018.01) C09D 201/06 (2006.01)**

[25] EN

[54] **PAINT COMPOSITION COMPRISING A BINDER AND A RHEOLOGY CONTROL AGENT**

[54] **COMPOSITION DE PEINTURE COMPRENANT UN LIANT ET UN AGENT RHEOLOGIQUE**

[72] NAKAMIZU, MASATO, JP

[73] KANSAI PAINT CO., LTD., JP

[85] 2021-08-13

[86] 2019-12-18 (PCT/JP2019/049663)

[87] (WO2020/194928)

[30] JP (2019-057647) 2019-03-26

[11] **3,130,310**
[13] C

[51] **Int.Cl. H02H 7/26 (2006.01) H02G 9/06 (2006.01) H02H 3/06 (2006.01) H02H 3/08 (2006.01)**

[25] EN

[54] **METHOD FOR RESTORING POWER IN AN UNDERGROUND RADIAL LOOP NETWORK**

[54] **METHODE DE RESTAURATION DE L'ALIMENTATION DANS UN RESEAU SOUTERRAIN EN BOUCLE RADIALE**

[72] QUINLAN, MICHAEL, US

[72] MARENDIC, BORIS, US

[72] MONTENEGRO, ALEJANDRO, US

[72] DESMOND, DANIEL, US

[72] FRENCH, JOHN, US

[73] S&C ELECTRIC COMPANY, US

[86] (3130310)

[87] (3130310)

[22] 2021-09-09

[30] US (63/085,441) 2020-09-30

[30] US (17/400,412) 2021-08-12

[11] **3,130,471**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/435 (2006.01) A61P 35/00 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **PAN-RAF KINASE INHIBITOR AND USE THEREOF**

[54] **INHIBITEUR DE PAN-RAF KINASE ET UTILISATION CONNEXE**

[72] LIU, QING SONG, CN

[72] LIU, JING, CN

[72] LI, XI XIANG, CN

[72] WANG, AO LI, CN

[72] QI, ZI PING, CN

[72] LIU, QING WANG, CN

[72] JIANG, ZONG RU, CN

[72] ZOU, FENG MING, CN

[72] WANG, WEN CHAO, CN

[72] HU, CHEN, CN

[72] CHEN, CHENG, CN

[72] WANG, LI, CN

[73] TARAPEUTICS SCIENCE INC., CN

[85] 2021-08-17

[86] 2019-03-07 (PCT/CN2019/077272)

[87] (WO2020/172906)

[30] CN (201910139510.X) 2019-02-26

[11] **3,130,900**
[13] C

[51] **Int.Cl. A21D 2/38 (2006.01) A23L 7/00 (2016.01) A23L 7/25 (2016.01) A23L 33/10 (2016.01) A21D 13/41 (2017.01) A21D 2/00 (2006.01) A21D 2/36 (2006.01) A21D 8/02 (2006.01)**

[25] EN

[54] **METHODS FOR MAKING SPENT GRAIN ALCOHOLIC AND DOUGH-BASED PRODUCTS**

[54] **METHODES DE FABRICATION DE PRODUITS A BASE D'ALCOOL ETHYLIQUE ET DE PATE USES**

[72] BROWN, THOMAS, US

[72] ALLGEIER, MARK, US

[73] BROWN, THOMAS, US

[73] ALLGEIER, MARK, US

[86] (3130900)

[87] (3130900)

[22] 2013-12-27

[62] 2,935,333

[30] US (61/746,996) 2012-12-28

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[11] **3,131,397**
[13] C

[51] **Int.Cl. B65D 85/804 (2006.01) A47J 31/06 (2006.01) A47J 31/24 (2006.01) B65D 81/34 (2006.01)**

[25] EN

[54] **CAPSULE, SYSTEM AND METHOD FOR PREPARING A PREDETERMINED QUANTITY OF BEVERAGE SUITABLE FOR CONSUMPTION**

[54] **CAPSULE, SYSTEME ET PROCEDE DE PREPARATION DE QUANTITE PREETABLIE DE BOISSON APPROPRIEE A LA CONSOMMATION**

[72] KAMERBEEK, RALF, NL
[72] FLAMAND, JOHN HENRI, NL
[72] POST VAN LOON, ANGENITA DOROTHEA, NL
[72] KOELING, HENDRIK CORNELIS, NL
[72] BIESHEUVEL, AREND CORNELIS JACOBUS, NL
[73] KONINKLIJKE DOUWE EGBERTS B.V., NL

[86] (3131397)
[87] (3131397)
[22] 2009-12-30
[62] 3,070,698
[30] EP (09162895.8) 2009-06-17
[30] EP (09162914.7) 2009-06-17
[30] EP (09162931.1) 2009-06-17
[30] EP (09163310.7) 2009-06-19
[30] EP (09167851.6) 2009-08-13
[30] EP (09170590.5) 2009-09-17

[11] **3,131,434**
[13] C

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 23/06 (2006.01) E21B 23/08 (2006.01) E21B 33/129 (2006.01) E21B 34/14 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **DISSOLVABLE SETTING TOOL FOR HYDRAULIC FRACTURING OPERATIONS**

[54] **OUTIL DE POSE SOLUBLE POUR OPERATIONS DE FRACTURATION HYDRAULIQUE**

[72] WINKLER, ALBERT, SG
[72] PENNO, ANDREW, SG
[72] FRIPP, MICHAEL, LINLEY, US
[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2021-08-24
[86] 2020-05-08 (PCT/US2020/032255)
[87] (WO2020/236443)
[30] US (62/852,129) 2019-05-23
[30] US (62/852,108) 2019-05-23
[30] US (62/852,153) 2019-05-23
[30] US (62/852,161) 2019-05-23

[11] **3,132,280**
[13] C

[51] **Int.Cl. B62D 21/18 (2006.01) B62D 21/08 (2006.01) B62D 23/00 (2006.01) B62D 33/06 (2006.01) B62D 47/00 (2006.01)**

[25] EN

[54] **FRAME COUPLERS FOR A UTILITY VEHICLE**

[54] **COUPLEURS DE CHASSIS POUR VEHICULE UTILITAIRE**

[72] ERSPAMER, BRENT A., US
[72] SEIDEL, BRIAN J., US
[72] RIPLEY, RICHARD D., US
[72] LUTZ, DENNIS J., US
[73] POLARIS INDUSTRIES INC., US

[86] (3132280)
[87] (3132280)
[22] 2014-03-14
[62] 2,901,541
[30] US (61/788,874) 2013-03-15

[11] **3,132,639**
[13] C

[51] **Int.Cl. B30B 15/06 (2006.01) B30B 9/10 (2006.01) C11B 1/08 (2006.01)**

[25] EN

[54] **ROSIN PRESS SYSTEM**

[54] **SYSTEME DE PRESSE A COLOPHANE**

[72] SITNIK, SPENCER, US
[73] SITNIK, SPENCER, US

[85] 2021-09-03
[86] 2020-03-12 (PCT/US2020/022316)
[87] (WO2020/186017)
[30] US (62/818,097) 2019-03-13
[30] US (62/819,098) 2019-03-15
[30] US (62/828,701) 2019-04-03
[30] US (62/945,511) 2019-12-09

[11] **3,132,880**
[13] C

[51] **Int.Cl. E01B 3/40 (2006.01) E01B 1/00 (2006.01) E01B 2/00 (2006.01) E01B 3/38 (2006.01) E01B 29/40 (2006.01)**

[25] FR

[54] **BALLASTLESS TRACK SECTION FOR A RAIL VEHICLE**

[54] **SECTION DE VOIE SANS BALLAST POUR VEHICULE FERROVIAIRE**

[72] VIAN, DAVID, FR
[72] ALLOUI, YUCEF, FR
[72] LE GUENNEC, MATHILDE, FR
[72] GIRARDI, MARCEL, FR
[72] OLIVE, JEROME, FR
[73] SYSTRA FRANCE, FR

[85] 2021-09-08
[86] 2020-03-16 (PCT/FR2020/050561)
[87] (WO2020/193911)
[30] FR (1903225) 2019-03-28

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[11] **3,132,946**
[13] C

[51] **Int.Cl. G06F 16/182 (2019.01) G06F 16/27 (2019.01) H04L 41/06 (2022.01)**

[25] EN

[54] **DISTRIBUTING DATA ON DISTRIBUTED STORAGE SYSTEMS**

[54] **DISTRIBUTION DE DONNEES DANS LES SYSTEMES DE STOCKAGE DISTRIBUES**

[72] QUINLAN, SEAN, US

[72] SCHIRRIPA, STEVEN ROBERT, US

[72] CYPHER, ROBERT, US

[73] GOOGLE LLC, US

[86] (3132946)

[87] (3132946)

[22] 2014-09-24

[62] 2,931,665

[30] US (14/097,380) 2013-12-05

[11] **3,133,219**
[13] C

[51] **Int.Cl. B01D 69/02 (2006.01) B01D 69/08 (2006.01) B01D 69/10 (2006.01) B01D 69/12 (2006.01) B01D 71/40 (2006.01) B01D 71/68 (2006.01) D01F 6/76 (2006.01) D06M 15/263 (2006.01)**

[25] EN

[54] **POROUS MEMBRANE**

[54] **MEMBRANE POREUSE**

[72] TAKAZONO, YASUTAKA, JP

[72] KOMURO, MASAYASU, JP

[73] ASAHI KASEI MEDICAL CO., LTD., JP

[85] 2021-09-10

[86] 2020-03-27 (PCT/JP2020/013889)

[87] (WO2020/203716)

[30] JP (2019-065206) 2019-03-29

[11] **3,133,438**
[13] C

[51] **Int.Cl. G01M 17/007 (2006.01)**

[25] EN

[54] **VEHICLE DIAGNOSIS METHOD, VEHICLE DIAGNOSIS SYSTEM, AND EXTERNAL DIAGNOSIS DEVICE**

[54] **DISPOSITIF DE DIAGNOSTIC DE VEHICULE, SYSTEME DE DIAGNOSTIC DE VEHICULE, ET PROCEDE DE DIAGNOSTIC EXTERNE**

[72] ICHIKAWA, TOMOHITO, JP

[73] HONDA MOTOR CO., LTD., JP

[85] 2021-09-13

[86] 2020-01-21 (PCT/JP2020/001956)

[87] (WO2020/183915)

[30] JP (2019-046676) 2019-03-14

[11] **3,133,559**
[13] C

[51] **Int.Cl. G01N 9/00 (2006.01) G01N 11/16 (2006.01)**

[25] EN

[54] **VIBRATING METER WITH GAP**

[54] **VIBROMETRE DOTE D'UN ESPACE**

[72] MACDONALD, GEORGE ALEXANDER, GB

[73] MICRO MOTION, INC., US

[85] 2021-09-14

[86] 2019-03-25 (PCT/US2019/023851)

[87] (WO2020/197543)

[11] **3,136,039**
[13] C

[51] **Int.Cl. H02K 33/02 (2006.01) H02K 33/16 (2006.01)**

[25] EN

[54] **SYSTEM FOR GENERATING A LINEAR MOVEMENT**

[54] **SYSTEME DE GENERATION D'UN MOUVEMENT LINEAIRE**

[72] TIRELLA, VINCENZO, CH

[72] BRUNETTI, SIMONE, IT

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

[85] 2021-10-04

[86] 2020-04-03 (PCT/IB2020/053184)

[87] (WO2020/202087)

[30] IB (PCT/IB2019/052799) 2019-04-05

[11] **3,137,624**
[13] C

[51] **Int.Cl. C01B 3/40 (2006.01) B01J 35/04 (2006.01) C01B 3/34 (2006.01) C01B 3/38 (2006.01)**

[25] EN

[54] **CATALYTICALLY HEATED FUEL PROCESSOR WITH REPLACEABLE STRUCTURED SUPPORTS BEARING CATALYST FOR FUEL CELL**

[54] **PROCESSEUR DE COMBUSTIBLE CHAUFFE CATALYTIQUEMENT A SUPPORTS STRUCTURES REMPLACABLES PORTANT UN CATALYSEUR POUR PILE A COMBUSTIBLE**

[72] VERYKIOS, XENOPHON, GR

[72] HALKIDES, THOMAS, GR

[72] STAVRAKAS, ANDREAS, GR

[72] BASAYIANNIS, ARIS, GR

[73] HELBIO SOCIETE ANONYME HYDROGEN AND ENERGY PRODUCTION SYSTEMS, GR

[86] (3137624)

[87] (3137624)

[22] 2012-03-08

[62] 2,862,538

[11] **3,138,169**
[13] C

[51] **Int.Cl. H02J 7/00 (2006.01) H01M 10/44 (2006.01) H01M 10/48 (2006.01) H02J 7/02 (2016.01)**

[25] EN

[54] **USED BATTERY UNIT DEPOSITORY**

[54] **DEPOT D'UNITES DE BATTERIE USAGEES**

[72] TANNO, SATOSHI, JP

[72] SHOJI, HIDEKI, JP

[73] TOYO SYSTEM CO., LTD., JP

[85] 2021-10-26

[86] 2021-02-22 (PCT/JP2021/006636)

[87] (WO2021/205766)

[30] JP (2020-071274) 2020-04-10

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[11] **3,138,500**
[13] C

[51] **Int.Cl. B62D 1/04 (2006.01) B62D 3/02 (2006.01)**
[25] EN
[54] **DIRECTION ADJUSTING DEVICE AND APPLICATION THEREOF**
[54] **DISPOSITIF DE REGLAGE DE DIRECTION ET SON APPLICATION**
[72] LUO, SHENG, CN
[72] YANG, JUN, CN
[72] WU, DI, CN
[72] YAO, YUAN, CN
[73] FJ DYNAMICS TECHNOLOGY CO., LTD, CN
[85] 2021-11-17
[86] 2020-05-19 (PCT/CN2020/090933)
[87] (WO2021/004160)
[30] CN (201910614647.6) 2019-07-09
[30] CN (201921070396.1) 2019-07-09

[11] **3,139,105**
[13] C

[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **LEARNING DATA GENERATION DEVICE, LEARNING DATA GENERATION METHOD, LEARNING DATA GENERATION PROGRAM, LEARNING DEVICE, LEARNING METHOD, LEARNING PROGRAM, INFERENCE DEVICE, INFERENCE METHOD, INFERENCE PROGRAM, AND INFERENCE SYSTEM**
[54] **DISPOSITIF DE GENERATION DE DONNEES D'APPRENTISSAGE, PROCEDE DE GENERATION DE DONNEES D'APPRENTISSAGE, PROGRAMME DE GENERATION DE DONNEES D'APPRENTISSAGE, DISPOSITIF D'APPRENTISSAGE, PROCEDE D'APPRENTISSAGE, PROGRAMME D'APPRENTISSAGE, DISPOSITIF D'INFERENCE, PROCEDE D'INFERENCE, PROGRAMME D'INFERENCE, SYSTEME D'APPRENTISSAGE ET SYSTEME D'INFERENCE**
[72] DOI, MAMORU, JP
[72] KATAYAMA, YUMIKO, JP
[72] SUGIHARA, KENYA, JP
[72] ASHIZAWA, MITSURU, JP
[73] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2021-11-03
[86] 2019-06-20 (PCT/JP2019/024477)
[87] (WO2020/255326)

[11] **3,139,170**
[13] C

[51] **Int.Cl. B65B 5/00 (2006.01) B25J 15/08 (2006.01)**
[25] EN
[54] **BOX PACKING APPARATUS, BOX PACKING METHOD, AND BOXING BODY**
[54] **DISPOSITIF D'EMBALLAGE DE BOITE, PROCEDE D'EMBALLAGE DE BOITE ET CORPS DE BOITE**
[72] UEMIZO, YOSHIAKI, JP
[72] UEDA, TAKASHI, JP
[73] JAPAN CASH MACHINE CO., LTD., JP
[85] 2021-11-03
[86] 2020-06-16 (PCT/JP2020/023517)
[87] (WO2021/014827)
[30] JP (2019-135153) 2019-07-23

[11] **3,139,645**
[13] C

[51] **Int.Cl. A01M 23/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONTROLLING PEST ANIMALS**
[54] **METHODE ET APPAREIL POUR CONTROLER LES ANIMAUX NUISIBLES**
[72] KREHEL, MARK, CA
[72] GAUTHIER, KEN, CA
[72] ABERCROMBIE, JOE, CA
[73] CATCH DATA LTD., CA
[86] (3139645)
[87] (3139645)
[22] 2021-11-19
[30] US (63/116,753) 2020-11-20

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[11] **3,139,832**
[13] C

- [51] **Int.Cl. B64D 27/24 (2006.01) B64D 33/08 (2006.01) H02K 1/30 (2006.01) H02K 3/00 (2006.01) H02K 5/18 (2006.01) H02K 5/20 (2006.01) H02K 7/14 (2006.01) H02K 9/10 (2006.01)**
- [25] EN
- [54] **ELECTRIC AIRCRAFT PROPULSION SYSTEM**
- [54] **SYSTEME DE PROPULSION D'AERONEF ELECTRIQUE**
- [72] RABBI, SHEIKH FAZLE, CA
- [72] PILGRIM, RICK RALPH, CA
- [72] GENGE, KYLE REUBEN, CA
- [72] FORWARD, TREVOR, CA
- [72] KEATING, ADAM, CA
- [72] ROPER, RICHARD ROBERT, US
- [73] DUXION MOTORS INC., CA
- [85] 2021-11-10
- [86] 2020-05-15 (PCT/CA2020/050662)
- [87] (WO2020/227837)
- [30] US (62/848,897) 2019-05-16

[11] **3,140,354**
[13] C

- [51] **Int.Cl. A63B 69/34 (2006.01) A63B 69/00 (2006.01)**
- [25] EN
- [54] **A TOOL FOR MARTIAL ARTS TRAINING**
- [54] **OUTIL POUR L'ENTRAINEMENT AUX ARTS MARTIAUX**
- [72] BOURASSA-FULOP, PATRICK, CA
- [73] EFFECTIVE MARTIAL ARTS (9303-3017 QUEBEC INC.), CA
- [86] (3140354)
- [87] (3140354)
- [22] 2021-11-24

[11] **3,141,108**
[13] C

- [51] **Int.Cl. E21B 34/14 (2006.01) E21B 21/00 (2006.01) E21B 23/08 (2006.01) E21B 23/14 (2006.01) E21B 7/04 (2006.01)**
- [25] EN
- [54] **DOWNHOLE TOOL ACTIVATION AND DEACTIVATION SYSTEM**
- [54] **SYSTEME D'ACTIVATION ET DE DESACTIVATION D'OUTIL EN FOND DE TROU**
- [72] RUSSELL, JAYSON, CA
- [72] COMEAU, LAURIER E., CA
- [73] ARRIVAL ENERGY SOLUTIONS INC., CA
- [86] (3141108)
- [87] (3141108)
- [22] 2021-12-06
- [30] US (17/302,457) 2021-05-03

[11] **3,141,786**
[13] C

- [51] **Int.Cl. G01R 31/367 (2019.01) G01R 31/374 (2019.01) H01M 10/48 (2006.01)**
- [25] EN
- [54] **SECONDARY BATTERY INSPECTION METHOD AND SECONDARY BATTERY INSPECTION DEVICE**
- [54] **METHODE ET DISPOSITIF D'INSPECTION DE BATTERIE SECONDAIRE**
- [72] MUNAKATA ICHIRO, JP
- [72] TANNO SATOSHI, JP
- [72] SHOJI HIDEKI, JP
- [73] TOYO SYSTEM CO., LTD., JP
- [85] 2021-11-24
- [86] 2021-03-19 (PCT/JP2021/011440)
- [87] (WO2021/210346)
- [30] JP (2020-071765) 2020-04-13

[11] **3,142,001**
[13] C

- [51] **Int.Cl. H04N 23/00 (2023.01) G06T 7/33 (2017.01) G06T 7/73 (2017.01)**
- [25] EN
- [54] **SPHERICAL IMAGE BASED REGISTRATION AND SELF-LOCALIZATION FOR ONSITE AND OFFSITE VIEWING**
- [54] **ENREGISTREMENT ET AUTO-LOCALISATION REPOSANT SUR UNE IMAGE SPHERIQUE POUR VISUALISATION SUR SITE ET HORS SITE**
- [72] BOYLESS, NAHANIEL DAVID, US
- [72] LIU, JIAYI, US
- [72] SIVA, SRIRAM, US
- [72] ZHANG, HAO, US
- [73] METCALF ARCHEOLOGICAL CONSULTANTS, INC., US
- [73] COLORADO SCHOOL OF MINES, US
- [85] 2021-11-25
- [86] 2020-06-02 (PCT/US2020/035767)
- [87] (WO2020/247399)
- [30] US (62/857,146) 2019-06-04

[11] **3,144,301**
[13] C

- [51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/32 (2012.01) G06Q 20/40 (2012.01)**
- [25] EN
- [54] **SECURE PAYMENT TRANSACTIONS**
- [54] **TRANSACTIONS DE PAIEMENT SECURISEES**
- [72] MARTINOVA, ANTONINA IVANOVA, BG
- [72] NEDELICHEV, DIYAN STEFANOV, BG
- [72] GUEORGUIEV, IVO ALEXANDROV, GB
- [73] PHOS SERVICES LTD, GB
- [85] 2021-12-20
- [86] 2020-07-01 (PCT/EP2020/068492)
- [87] (WO2021/001415)
- [30] EP (19184193.1) 2019-07-03

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[11] **3,146,909**
[13] C

[51] **Int.Cl. A61F 5/44 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING OSTOMY FACEPLATES IN CLOSE PROXIMITY WITH NEGATIVE PRESSURE WOUND DEVICES**

[54] **SYSTEMES ET PROCESSES POUR FOURNIR DES PLAQUES AVANT DE PROTECTION DE STOMIE A PROXIMITE ETROITE AVEC DES DISPOSITIFS POUR PLAIE A PRESSION NEGATIVE**

[72] GRANET, ROSEMARY, US
[72] GRANET, PAUL, US
[72] MURPHY, GREGORY, US
[73] SANGUINE TECHNOLOGY, LLC, US
[85] 2022-01-07
[86] 2020-07-07 (PCT/US2020/041065)
[87] (WO2021/007247)
[30] US (62/871,670) 2019-07-08
[30] US (16/849,909) 2020-04-15

[11] **3,148,423**
[13] C

[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] **TRAITEMENTS DES BORDS DE PANNEAUX COMPOSITES ET JOINTS ET CORPS DE CARGAISON LES COMPRENANT**

[72] FENTON, GARY L., US
[73] STI HOLDINGS, INC., US
[86] (3148423)
[87] (3148423)
[22] 2015-06-04
[62] 2,894,059
[30] US (62/007,807) 2014-06-04

[11] **3,149,441**
[13] C

[51] **Int.Cl. H01Q 3/00 (2006.01) H01Q 3/26 (2006.01) H04B 7/185 (2006.01) H04B 7/204 (2006.01)**

[25] EN
[54] **TRANSMIT ANTENNA CALIBRATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDURE D'ETALONNAGE D'ANTENNE D'EMISSION**

[72] LARIA, ESTEBAN, GB
[72] LAWS, STEPHEN, GB
[72] RAMSEY, WINSTON, GB
[73] AIRBUS DEFENCE AND SPACE LIMITED, GB
[85] 2022-02-24
[86] 2020-08-28 (PCT/GB2020/052065)
[87] (WO2021/038238)
[30] GB (1912420.5) 2019-08-29

[11] **3,153,150**
[13] C

[51] **Int.Cl. E01F 15/04 (2006.01) E01F 15/14 (2006.01)**

[25] EN
[54] **CRASH IMPACT ATTENUATOR SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCESSES D'ATTENUATEUR D'IMPACT DE COLLISION**

[72] MAUS, GEOFFREY B., US
[72] ALMANZA, FELIPE, US
[72] KULP, JACK H., US
[73] TRAFFIX DEVICES, INC., US
[85] 2022-03-02
[86] 2020-10-15 (PCT/US2020/055797)
[87] (WO2021/076767)
[30] US (62/915,592) 2019-10-15
[30] US (63/054,911) 2020-07-22

[11] **3,153,397**
[13] C

[51] **Int.Cl. A61K 31/12 (2006.01) A61P 29/00 (2006.01)**

[25] EN
[54] **COMPOUNDS COMPRISING CURCUMIN AND BASIC AMINO ACIDS**

[54] **COMPOSES DE CURCUMINE ET ACIDES AMINES BASIQUES**

[72] DOMINGUEZ CHAVEZ, JORGE GUILLERMO, MX
[72] MONDRAGON VASQUEZ, KARINA, MX
[72] SENOSIAIN PELAEZ, JUAN PABLO, MX
[73] ALPARIS, S.A. DE C.V., MX
[85] 2022-03-04
[86] 2020-07-31 (PCT/IB2020/057240)
[87] (WO2021/044231)
[30] MX (MX/a/2019/010692) 2019-09-06

[11] **3,154,870**
[13] C

[51] **Int.Cl. F24D 12/02 (2006.01) F24D 19/10 (2006.01)**

[25] EN
[54] **HYBRID RESIDENTIAL HEATER AND CONTROL SYSTEM THEREFOR**

[54] **DISPOSITIF DE CHAUFFAGE RESIDENTIEL HYBRIDE ET SON SYSTEME DE REGULATION**

[72] WARDROP, WALTER, CA
[72] BARBER, NICHOLAS, CA
[73] FLEXCHANGER TECHNOLOGIES INC., CA
[85] 2022-03-17
[86] 2020-09-17 (PCT/CA2020/051249)
[87] (WO2021/051199)
[30] CA (3056048) 2019-09-17

[11] **3,158,048**
[13] C

[51] **Int.Cl. B60K 28/04 (2006.01) H01R 12/91 (2011.01) H01R 24/38 (2011.01) B62M 27/02 (2006.01) H01H 3/36 (2006.01) H01R 11/30 (2006.01)**

[25] EN
[54] **MAGNETIC TETHER SWITCH**

[54] **CONTACTEUR D'ATTACHE MAGNETIQUE**

[72] ABERLE, RYAN D., US
[73] ABERLE, RYAN D., US
[85] 2022-05-11
[86] 2020-11-13 (PCT/US2020/060569)
[87] (WO2021/097333)
[30] US (62/936,284) 2019-11-15
[30] US (62/954,308) 2019-12-27

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[11] **3,158,523**
[13] C

- [51] **Int.Cl. G06F 30/10 (2020.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR HYBRID MODELING USING GEOMETRIC FACETS**
[54] **PROCEDE ET SYSTEME DE MODELISATION HYBRIDE UTILISANT DES FACETTES GEOMETRIQUES**
[72] CAO, SHANGWEN, CA
[73] CAO, SHANGWEN, CA
[85] 2022-05-15
[86] 2020-09-08 (PCT/CA2020/051207)
[87] (WO2021/102553)
[30] US (16/695,305) 2019-11-26

[11] **3,159,180**
[13] C

- [51] **Int.Cl. A61M 16/04 (2006.01) A61B 1/00 (2006.01) A61B 1/267 (2006.01)**
[25] EN
[54] **A CLAMP FOR A BRONCHOSCOPE OR THE LIKE**
[54] **PINCE POUR BRONCHOSCOPE OU ANALOGUE**
[72] GARNER, STEFAN, GB
[72] GARNER, JUSTIN, GB
[73] GARNER, JUSTIN, GB
[85] 2022-05-20
[86] 2020-09-09 (PCT/EP2020/075206)
[87] (WO2021/099002)
[30] GB (1917013.3) 2019-11-22

[11] **3,159,765**
[13] C

- [51] **Int.Cl. A23L 5/00 (2016.01) A23L 7/109 (2016.01) A23L 11/00 (2021.01)**
[25] EN
[54] **SOLID PASTE COMPOSITION FOR COOKING AND METHOD FOR PRODUCING SAME**
[54] **COMPOSITION DE PATE SOLIDE POUR CUISSON ET SON PROCEDE DE PRODUCTION**
[72] HIBI, NARUHIRO, JP
[73] MIZKAN HOLDINGS CO., LTD., JP
[85] 2022-04-29
[86] 2020-07-03 (PCT/JP2020/026288)
[87] (WO2021/084803)
[30] JP (2019-200278) 2019-11-01

[11] **3,162,224**
[13] C

- [51] **Int.Cl. F41G 1/34 (2006.01)**
[25] EN
[54] **TAIL SWITCH ARRANGEMENT FOR A LIGHT**
[54] **AGENCEMENT DE COMMUTATEUR DE QUEUE POUR UNE LAMPE**
[72] WORMAN, WILLIAM D., US
[73] STREAMLIGHT, INC., US
[85] 2022-06-16
[86] 2020-12-22 (PCT/US2020/066597)
[87] (WO2021/133796)
[30] US (16/725,670) 2019-12-23
[30] US (17/125,537) 2020-12-17

[11] **3,163,049**
[13] C

- [51] **Int.Cl. G06F 3/14 (2006.01) G06F 9/451 (2018.01) G06Q 30/0601 (2023.01)**
[25] EN
[54] **FACILITATING INTERACTIVE CONTENT PRESENTATION IN ONLINE COMPUTING ENVIRONMENT**
[54] **FACILITATION DE LA PRESENTATION DE CONTENU INTERACTIF DANS UN ENVIRONNEMENT INFORMATIQUE EN LIGNE**
[72] BROWN, DERRICK, US
[73] CARDLYTICS, INC., US
[85] 2022-06-24
[86] 2020-01-15 (PCT/US2020/013652)
[87] (WO2021/133418)
[30] US (16/726,779) 2019-12-24

[11] **3,163,937**
[13] C

- [51] **Int.Cl. H02J 7/00 (2006.01) H02J 7/34 (2006.01)**
[25] EN
[54] **RECHARGEABLE CHARGER FOR RECHARGEABLE DEVICES, AND METHOD FOR CHARGING RECHARGEABLE DEVICES**
[54] **CHARGEUR RECHARGEABLE POUR DISPOSITIFS RECHARGEABLES, ET PROCEDE DE CHARGE DE DISPOSITIFS RECHARGEABLES**
[72] XIONGBIN, XU, SG
[73] SONOVA CONSUMER HEARING GMBH, DE
[85] 2022-06-03
[86] 2020-12-17 (PCT/EP2020/086620)
[87] (WO2021/136671)
[30] US (16/732,521) 2020-01-02

[11] **3,165,060**
[13] C

- [51] **Int.Cl. G01N 27/447 (2006.01) C12Q 1/34 (2006.01) G01N 33/58 (2006.01) G01N 33/68 (2006.01) C07K 1/26 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **DEGLYCOSYLATION METHODS FOR ELECTROPHORESIS OF GLYCOSYLATED PROTEINS**
[54] **PROCEDES DE DEGLYCOSYLATION POUR L'ELECTROPHORESE DE PROTEINES GLYCOSYLEES**
[72] ZHAO, YIMING, US
[72] CHEN, HUNTER, US
[72] WANG, SHAO-CHUN, US
[72] RIEHLMAN, TIMOTHY, US
[72] CARREAU, GABRIEL, US
[72] WANG, YING, US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2022-07-15
[86] 2021-01-20 (PCT/US2021/014111)
[87] (WO2021/150558)
[30] US (62/963,646) 2020-01-21

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[11] **3,165,818**
[13] C

[51] **Int.Cl. H02S 20/32 (2014.01) F24S 30/45 (2018.01) F24S 80/30 (2018.01)**
[25] EN
[54] **DUAL AXIS SOLAR ARRAY TRACKER**
[54] **TRAQUEUR DE RESEAU SOLAIRE A DEUX AXES**
[72] ARAB, RA'ED, CA
[72] ROCHA, BRUNO, CA
[72] ARAB, ABDULLAH, CA
[73] MAXUN SOLAR INC., CA
[85] 2022-07-22
[86] 2022-01-13 (PCT/CA2022/050049)
[87] (3165818)
[30] US (63/137,221) 2021-01-14

[11] **3,166,621**
[13] C

[51] **Int.Cl. H04L 25/00 (2006.01)**
[25] EN
[54] **OPTIMISATION FOR DATA TRANSMISSION**
[54] **OPTIMISATION POUR LA TRANSMISSION DE DONNEES**
[72] PICKERING, YVONNE, GB
[72] BROWN, STEPHEN, GB
[72] SKINNER, PETER, GB
[73] AIRBUS DEFENCE AND SPACE LIMITED, GB
[85] 2022-07-29
[86] 2021-01-22 (PCT/EP2021/051443)
[87] (WO2021/156076)
[30] EP (20155446.6) 2020-02-04

[11] **3,169,145**
[13] C

[51] **Int.Cl. H04W 4/029 (2018.01) H04W 8/00 (2009.01) H04W 84/18 (2009.01)**
[25] EN
[54] **PRODUCT LOCATION SYSTEM**
[54] **SYSTEME DE LOCALISATION DE PRODUIT**
[72] SOLOMON, STANLEY B., US
[73] WORTHWHILE PRODUCTS, US
[85] 2022-08-23
[86] 2021-05-04 (PCT/US2021/030709)
[87] (WO2021/231136)
[30] US (63/022,811) 2020-05-11
[30] US (17/039,357) 2020-09-30
[30] US (17/237,953) 2021-04-22

[11] **3,172,487**
[13] C

[51] **Int.Cl. H01R 13/533 (2006.01) F16L 25/01 (2006.01) G02B 6/44 (2006.01) H01R 24/00 (2011.01) H02G 3/06 (2006.01)**
[25] EN
[54] **SET OF ELECTROMECHANICAL CONNECTORS HAVING MALE AND FEMALE STRUCTURAL MEMBERS**
[54] **ENSEMBLE DE RACCORDS ELECTROMECHANIQUES POURVUS D'ELEMENTS STRUCTURAUX MALE ET FEMELLE**
[72] DEGUIRE, PATRICE, CA
[73] DEGUIRE, PATRICE, CA
[85] 2022-09-20
[86] 2021-03-19 (PCT/CA2021/050366)
[87] (WO2021/184126)
[30] US (62/992,310) 2020-03-20

[11] **3,179,843**
[13] C

[51] **Int.Cl. G01S 7/499 (2006.01) B60W 60/00 (2020.01) G01S 17/931 (2020.01) G01S 17/88 (2006.01) G01S 17/93 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTONOMOUS VEHICLE CONTROL USING DEPolarIZATION RATIO OF RETURN SIGNAL**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE VEHICULE AUTONOME UTILISANT UN RAPPORT DE DEPolarISATION D'UN SIGNAL DE RETOUR**
[72] CROUCH, STEPHEN, US
[72] BARBER, ZEB, US
[72] KADLEC, EMIL, US
[72] GALLOWAY, RYAN, US
[72] SPILLANE, SEAN, US
[73] AURORA OPERATIONS, INC., US
[85] 2022-11-22
[86] 2021-06-02 (PCT/US2021/035331)
[87] (WO2022/005675)
[30] US (16/916,981) 2020-06-30

[11] **3,181,284**
[13] C

[51] **Int.Cl. G01J 9/02 (2006.01)**
[25] EN
[54] **MEASURING WAVELENGTH OF LIGHT**
[54] **MESURE DE LONGUEUR D'ONDE DE LUMIERE**
[72] KEAVENEY, JAMES, CA
[72] GILLET, GEOFFREY GORDON, CA
[72] LIU, CHANG, CA
[72] ERSKINE, JENNIFER ANN JOE, CA
[72] SHAFFER, JAMES P., CA
[73] QUANTUM VALLEY IDEAS LABORATORIES, CA
[85] 2022-12-02
[86] 2020-12-18 (PCT/CA2020/051749)
[87] (WO2021/258184)
[30] US (16/907,469) 2020-06-22

[11] **3,185,740**
[13] C

[51] **Int.Cl. H01M 8/1016 (2016.01) H01M 8/1246 (2016.01) H01M 8/126 (2016.01) H01M 8/00 (2016.01) H01M 8/10 (2016.01)**
[25] EN
[54] **PROTON-CONDUCTING ELECTROLYTES FOR REVERSIBLE SOLID OXIDE CELLS**
[54] **ELECTROLYTES CONDUCTEURS DE PROTONS POUR PILES A OXYDE SOLIDE REVERSIBLES**
[72] LIU, MEILIN, US
[72] MURPHY, RYAN, US
[73] PHILLIPS 66 COMPANY, US
[73] GEORGIA TECH RESEARCH CORPORATION, US
[85] 2022-12-01
[86] 2021-06-03 (PCT/US2021/035570)
[87] (WO2021/262410)
[30] US (63/042,599) 2020-06-23

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[11] **3,190,914**

[13] C

[51] **Int.Cl. H01L 27/146 (2006.01) H01L
31/0203 (2014.01)**

[25] EN

[54] **AN OPTICAL SYSTEM
INCLUDING A MICROLENS
ARRAY**

[54] **SYSTEME OPTIQUE
COMPRENANT UN RESEAU DE
MICROLENTILLES**

[72] BLASCO, JORGE, ES

[72] VIRGILIO PERINO, IVAN, ES

[72] CARRION, LETICIA, ES

[72] GRANDIA, JAVIER, ES

[72] ALVENTOSA, FRANCISCO, ES

[73] PHOTONIC SENSORS &
ALGORITHMS, S.L., ES

[85] 2023-02-24

[86] 2021-01-16 (PCT/EP2021/050880)

[87] (WO2022/128163)

[30] ES (P202031247) 2020-12-15

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[21] **3,141,055**
[13] A1
[51] **Int.Cl. B25B 11/00 (2006.01) B27G 17/00 (2006.01)**
[25] EN
[54] **WOOD RETAINING APPARATUS**
[54] **APPAREIL DE RETENUE DE PRODUITS DE BOIS**
[72] GILLINGHAM, JAMIE, CA
[71] GILLINGHAM, JAMIE, CA
[22] 2021-12-04
[41] 2023-06-04

[21] **3,141,087**
[13] A1
[51] **Int.Cl. A01K 1/06 (2006.01)**
[25] EN
[54] **HEAD GATE FOR A CATTLE CONTAINMENT CHUTE**
[54] **PORTE CORNADIS POUR UNE CHUTE DE CONTENTION DE BETAIL**
[72] COMTE, ALAIN GERALD, CA
[72] DELORME, ALLAN R., CA
[72] DELAQUIS, YVAN, CA
[71] COMTE INDUSTRIES LIMITED, CA
[22] 2021-12-06
[41] 2023-06-06

[21] **3,141,175**
[13] A1
[51] **Int.Cl. A45F 3/04 (2006.01)**
[25] EN
[54] **BACKPACK WITH SHOULDER STRAPS CROSSING AND NON-FIXED AT TOP TO SUPPORT LOAD FROM BASE**
[54] **SAC A DOS AVEC BANDOULIERES CROISEES ET NON FIXEES PAR LE HAUT POUR SOUTENIR LA CHARGE PAR LA BASE**
[72] ARMITAGE, GRAHAM M., CA
[71] ARMITAGE, GRAHAM M., CA
[22] 2021-12-06
[41] 2023-06-06

[21] **3,141,189**
[13] A1
[51] **Int.Cl. B64C 1/40 (2006.01) B32B 7/022 (2019.01) B32B 27/08 (2006.01) B60R 13/08 (2006.01)**
[25] EN
[54] **AIRCRAFT NOISE CONTROL**
[54] **CONTROLE DU BRUIT D'UN AERONEF**
[72] KATHIRCHELVAN, THINESHAN, CA
[71] DE HAVILLAND AIRCRAFT OF CANADA LIMITED, CA
[22] 2021-12-06
[41] 2023-06-06

[21] **3,141,218**
[13] A1
[51] **Int.Cl. A47C 7/00 (2006.01) A47C 1/00 (2006.01)**
[25] EN
[54] **CUSHION STORING FURNITURE**
[54] **MEUBLE AVEC RANGEMENT DE COUSSINS**
[72] CROWHURST, SARAH, CA
[71] CROWHURST, SARAH, CA
[22] 2021-12-07
[41] 2023-06-07

[21] **3,141,256**
[13] A1
[51] **Int.Cl. G02B 27/18 (2006.01) G02B 27/01 (2006.01) G02B 27/28 (2006.01)**
[25] EN
[54] **HEAD UP DISPLAY SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE D'AFFICHAGE TETE-HAUTE**
[72] GOSTLIN, RICHARD ALLAN, CA
[72] SANDQUIST, DEREK LEE, CA
[72] FENKHUBER, JACK WILLIAM, CA
[71] VALID MANUFACTURING LTD., CA
[22] 2021-12-08
[41] 2023-06-08

[21] **3,141,320**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) A61K 9/20 (2006.01) A61K 31/4439 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61P 35/00 (2006.01) C07C 47/58 (2006.01) C07C 229/60 (2006.01)**
[25] EN
[54] **NOVEL CRYSTALLINE FORMS OF APALUTAMIDE**
[54] **NOUVELLES FORMES CRISTALLINES D'APALUTAMIDE**
[72] STIRK, ALEXANDER J., CA
[72] SOUZA, FABIO E. S., CA
[72] KARADEOLIAN, AVEDIS, CA
[72] REY, ALLAN W., CA
[71] APOTEX INC., CA
[22] 2021-12-08
[41] 2023-06-08

[21] **3,141,357**
[13] A1
[51] **Int.Cl. G07C 9/29 (2020.01) G06Q 50/16 (2012.01) E05B 47/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING REMOTE AUTHORIZATION FOR VIEWING A HOUSING PROPERTY**
[54] **SYSTEME ET METHODE D'AUTORISATION A DISTANCE POUR LA VISITE D'UNE PROPRIETE D'HABITATION**
[72] SONI, PRAGNESH HIRALAL, AE
[72] MUKHTAR, KHURRAM BABUR, QA
[72] FAKIH, SAJEDA SARVAR, SA
[72] JACOB, VINU JACOB, AE
[71] SONI, PRAGNESH HIRALAL, AE
[71] MUKHTAR, KHURRAM BABUR, QA
[71] FAKIH, SAJEDA SARVAR, SA
[71] JACOB, VINU JACOB, AE
[22] 2021-12-08
[41] 2023-06-08

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[21] **3,141,517**
[13] A1

[51] **Int.Cl. F41J 5/26 (2006.01) C06B 45/00 (2006.01) F41J 5/24 (2006.01)**
[25] EN
[54] **TARGET DEVICE**
[54] **DISPOSITIF CIBLE**
[72] LASTORIA, MICHAEL, CA
[71] SYNTHARISE CHEMICAL INC., CA
[22] 2021-12-09
[41] 2023-06-09

[21] **3,141,542**
[13] A1

[51] **Int.Cl. G06F 9/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRIGGERING ONE OR MORE ACTIONS**
[54] **SYSTEME ET METHODE POUR DECLENCHER UNE OU PLUSIEURS MESURES**
[72] MOGHAIZEL, ROMY, CA
[72] MCCONNELL, JEREMY JOHN, CA
[72] SORIANO, CARMELYN RENOSA, CA
[72] KO, PATRICIA SHUMIN, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-12-09
[41] 2023-06-09

[21] **3,141,745**
[13] A1

[51] **Int.Cl. B63B 35/00 (2020.01) H04W 4/00 (2018.01) B63B 69/00 (2013.01) B63B 49/00 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **MODULAR DEPLOYMENT AND RETRIEVAL SYSTEM FOR UNMANNED SUB-CARRIERS**
[54] **SYSTEME DE DEPLOIEMENT DE RECUPERATION MODULAIRE POUR SOUS-PORTEURS SANS PILOTE**
[72] LIU, SHIWEI, CA
[72] WANG, TIANYE, CA
[72] HATFIELD, BEN, CA
[72] WANG, LISHAO, CA
[72] CHENG, XIAOGE, CN
[72] LU, FRED, CA
[71] LIU, SHIWEI, CA
[71] WANG, TIANYE, CA
[71] HATFIELD, BEN, CA
[71] WANG, LISHAO, CA
[71] CHENG, XIAOGE, CN
[71] LU, FRED, CA
[22] 2021-12-10
[41] 2023-06-10
[30] CA (3102276) 2021-12-10

[21] **3,141,750**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/34 (2012.01) G06K 19/07 (2006.01) G07C 11/00 (2006.01)**
[25] EN
[54] **AGE VERIFICATION CARD AND METHOD**
[54] **CARTE DE VERIFICATION D'AGE ET METHODE**
[72] ANDERSON, DONALD, CA
[71] ANDERSON, DONALD, CA
[22] 2021-12-10
[41] 2023-06-09
[30] US (17/643,503) 2021-12-09

[21] **3,141,842**
[13] A1

[51] **Int.Cl. B02C 13/286 (2006.01) B02C 13/14 (2006.01) B02C 13/18 (2006.01) B02C 13/20 (2006.01)**
[25] EN
[54] **PULVERIZER WITH OUTPUT FLOW CONTROL AND METHODS FOR CONTROLLING OUTPUT FLOW IN A PULVERIZER**
[54] **PULVERISATEUR AVEC CONTROLE DE DEBIT DE SORTIE ET METHODES POUR CONTROLER LE DEBIT DE SORTIE DANS UN PULVERISATEUR**
[72] LUTOSLAWSKI, JAREK, BM
[72] ALDRIDGE, CLINT, BM
[72] MUELLER, CHRIS, BM
[71] TORXX KINETIC PULVERIZER LIMITED, BM
[22] 2021-12-10
[41] 2023-06-10

[21] **3,141,901**
[13] A1

[25] EN
[54] **GENERATING LOADS IN PULSES**
[54] **GENERATION DE CHARGES EN IMPULSIONS**
[72] JOSEPH, DAVID, CA
[72] JOSEPH, DAVID, CA
[71] JOSEPH, DAVID, CA
[71] JOSEPH, DAVID, CA
[22] 2021-12-06
[41] 2023-06-06

[21] **3,141,913**
[13] A1

[51] **Int.Cl. A22C 29/02 (2006.01) A22C 29/00 (2006.01)**
[25] EN
[54] **CRAB PROCESSING MACHINE AND METHOD, AND CRAB EVISCERATING DISC THEREFOR**
[54] **MACHINE ET METHODE DE TRANSFORMATION DE CRABE ET DISQUE D'EVISCEREUSE DE CRABE**
[72] CHIASSON, STEPHANE, CA
[71] CHIASSON, STEPHANE, CA
[22] 2021-12-09
[41] 2023-06-09

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[21] **3,141,966**
[13] A1

[51] **Int.Cl. E04H 1/12 (2006.01) B65D 88/10 (2006.01)**
[25] EN
[54] **OUTDOOR MOBILE OFFICE POD**
[54] **NACELLE DE BUREAU MOBILE EXTERIEURE**
[72] DUBE-SEXTON, SIMON, CA
[71] DUBE-SEXTON, SIMON, CA
[22] 2021-12-10
[41] 2023-06-10

[21] **3,142,048**
[13] A1

[51] **Int.Cl. F16M 13/02 (2006.01) A47G 25/00 (2006.01) B60R 7/04 (2006.01)**
[25] EN
[54] **FACE MASK HOLDER FOR CAR**
[54] **SUPPORT A MASQUE POUR VEHICULE**
[72] LI, JAMY, CA
[71] LI, JAMY, CA
[22] 2021-12-04
[41] 2023-06-04

[21] **3,142,647**
[13] A1

[51] **Int.Cl. A47D 13/00 (2006.01) A47C 16/00 (2006.01) A47G 9/10 (2006.01)**
[25] EN
[54] **NURSING PILLOW**
[54] **OREILLER DE MATERNAGE**
[72] SAUCEDA, SAMUEL, US
[72] LEVEL, MARIA, US
[72] HIRSCHHORN, CHELSEA, US
[71] FRIDABABY, LLC, US
[22] 2021-12-10
[41] 2023-06-06
[30] US (17/543,115) 2021-12-06

[21] **3,144,133**
[13] A1

[51] **Int.Cl. B60P 3/00 (2006.01) B60K 1/04 (2019.01) B60K 7/00 (2006.01) B60R 11/00 (2006.01)**
[25] EN
[54] **LAND VEHICLES INCORPORATING ELECTRIC MOTORS AND METHODS THEREFOR**
[54] **VEHICULES TERRESTRES INTEGRANT DES MOTEURS ELECTRIQUES ET METHODES CONNEXES**
[72] WILLISON, ROBERT, US
[72] WIRES, DONALD L., US
[72] CAIN, GARY L., US
[71] WORKHORSE GROUP INC., US
[22] 2021-12-29
[41] 2023-06-09
[30] US (17/546,593) 2021-12-09

[21] **3,144,139**
[13] A1

[51] **Int.Cl. B60T 1/06 (2006.01) B60K 7/00 (2006.01)**
[25] EN
[54] **LAND VEHICLES INCORPORATING BRAKE SYSTEMS AND METHODS THEREFOR**
[54] **VEHICULES TERRESTRES INTEGRANT DES SYSTEMES DE FREINAGE ET METHODES CONNEXES**
[72] WILLISON, ROBERT, US
[72] WIRES, DONALD L., US
[72] CAIN, GARY L., US
[71] WORKHORSE GROUP INC., US
[22] 2021-12-29
[41] 2023-06-09
[30] US (17/546,500) 2021-12-09

[21] **3,144,141**
[13] A1

[51] **Int.Cl. B60P 3/00 (2006.01) B60R 1/08 (2006.01) B60R 11/00 (2006.01)**
[25] EN
[54] **LAND VEHICLES ADAPTED FOR USE AS ELECTRIC DELIVERY VEHICLES**
[54] **VEHICULES TERRESTRES ADAPTES A L'UTILISATION COMME VEHICULES DE LIVRAISON ELECTRIQUES**
[72] WILLISON, ROBERT, US
[72] WIRES, DONALD L., US
[72] CAIN, GARY L., US
[71] WORKHORSE GROUP INC., US
[22] 2021-12-29
[41] 2023-06-09
[30] US (17/546,555) 2021-12-09

[21] **3,144,156**
[13] A1

[51] **Int.Cl. B60R 19/02 (2006.01) B60K 7/00 (2006.01) B60P 3/00 (2006.01) B60R 11/00 (2006.01)**
[25] EN
[54] **LAND VEHICLES INCORPORATING IMPACT MANAGEMENT SYSTEMS**
[54] **VEHICULES TERRESTRES INTEGRANT DES SYSTEMES DE GESTION DES CHOCS**
[72] WILLISON, ROBERT, US
[72] WIRES, DONALD L., US
[72] CAIN, GARY L., US
[71] WORKHORSE GROUP INC., US
[22] 2021-12-29
[41] 2023-06-09
[30] US (17/546,641) 2021-12-09

[21] **3,144,592**
[13] A1

[51] **Int.Cl. B62B 5/06 (2006.01) B62B 3/04 (2006.01) F16B 2/20 (2006.01)**
[25] EN
[54] **HANDLEBAR FIXING DEVICE AND TOOL CART**
[54] **DISPOSITIF DE FIXATION DE GUIDON ET CHARIOT A OUTILS**
[72] LIU, ZHIJUN, CN
[71] QINGDAO HUATIAN HAND TRUCK CO., LTD., CN
[22] 2021-12-31
[41] 2023-06-06
[30] CN (202123045253.5) 2021-12-06

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[21] **3,148,268**
[13] A1

[51] **Int.Cl. C04B 35/78 (2006.01) B28B 19/00 (2006.01) C04B 35/50 (2006.01) C23C 28/00 (2006.01) F01D 25/00 (2006.01)**

[25] EN

[54] **COATED COMPONENTS HAVING ENVIRONMENTAL BARRIER COATINGS CONTAINING A RARE EARTH DISILICATE AND A SECOND PHASE MATERIAL**

[54] **ELEMENTS REVETUS D'UNE BARRIERE ENVIRONNEMENTALE CONTENANT UN DISILICATE DE TERRE RARE ET UN MATERIAU DE DEUXIEME PHASE**

[72] SARRAFI-NOUR, REZA, US
[72] RAMASWAMY, VIDYA, US
[72] SHUKLA, ADARSH, IN
[72] NAYAK, MOHANDAS, IN
[72] EADON, GEOFFREY MARK, US
[71] GENERAL ELECTRIC COMPANY, US

[22] 2022-02-08
[41] 2023-06-06
[30] IN (202111056416) 2021-12-06
[30] US (17/587,508) 2022-01-28

[21] **3,149,485**
[13] A1

[51] **Int.Cl. G16H 50/30 (2018.01) G16Y 10/60 (2020.01) G16Y 40/10 (2020.01) G16Y 40/30 (2020.01) A61B 5/00 (2006.01)**

[25] EN

[54] **AN IOT BASED SYSTEM AND METHOD FOR HEALTH MONITORING**

[54] **SYSTEME FONDE SUR L'INTERNET DES OBJETS ET METHODES DE SURVEILLANCE DE L'ETAT DE SANTE**

[72] OJHA, RENU, IN
[72] PAL, YASH, IN
[72] SOOD, RAJEEV, IN
[72] MAKHIJA, HEMANT, IN
[71] CLAIRVOYANCE TECH INC, CA

[22] 2022-02-18
[41] 2023-06-04
[30] IN (202141056338) 2021-12-04

[21] **3,150,172**
[13] A1

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

[25] EN

[54] **CLOCKWORK COILING DEVICE WITH CLOCKWORK IN UPPER BEAM**

[54] **DISPOSITIF DE BOBINAGE A MECANISME D'HORLOGERIE DANS UN BARROT SUPERIEUR**

[72] LU, JIEFEI, CN
[71] NINGBO ZHENFEI DECORATED CURTAIN CO., LTD., CN

[22] 2022-02-25
[41] 2023-06-09
[30] CN (202123083043.5) 2021-12-09

[21] **3,150,495**
[13] A1

[51] **Int.Cl. F25D 23/02 (2006.01) A47F 3/04 (2006.01) E06B 5/00 (2006.01)**

[25] EN

[54] **ELECTRONIC DISPLAY MOUNTING IN DISPLAY CASE DOOR**

[54] **SUPPORT D'AFFICHAGE ELECTRONIQUE DANS UNE PORTE DE BOITIER D'AFFICHAGE**

[72] ALMAGUER, PEDRO, US
[72] BAUGH, DAVID BRIGGS, US
[72] SANDNES, MARK, US
[72] MALUTO, DEXTER, US
[71] ANTHONY, INC., US

[22] 2022-03-01
[41] 2023-06-09
[30] US (63/287,930) 2021-12-09

[21] **3,150,502**
[13] A1

[51] **Int.Cl. F25D 23/02 (2006.01) A47F 3/04 (2006.01) E06B 5/00 (2006.01)**

[25] EN

[54] **DISPLAY CASE DOOR WITH SEALED GLASS UNIT AND ELECTRONIC DISPLAY**

[54] **PORTE DE BOITIER D'AFFICHAGE COMPRENANT UNE UNITE DE VERRE SCELLEE ET UN AFFICHAGE ELECTRONIQUE**

[72] ALMAGUER, PEDRO, CN
[72] SANDNES, MARK, US
[72] BAUGH, DAVID BRIGGS, US
[72] MALUTO, DEXTER, US
[72] RODRIGUEZ, ADRIAN, US
[71] ANTHONY, INC., US

[22] 2022-03-01
[41] 2023-06-09
[30] US (63/287,930) 2021-12-09

[21] **3,150,511**
[13] A1

[51] **Int.Cl. A47F 11/00 (2006.01) A47F 3/04 (2006.01) F25D 23/02 (2006.01)**

[25] EN

[54] **SUPPORTING AN ELECTRONIC DISPLAY IN A DISPLAY CASE DOOR**

[54] **SUPPORT D'UN AFFICHAGE ELECTRONIQUE DANS UNE PORTE DE BOITIER D'AFFICHAGE**

[72] BAUGH, DAVID BRIGGS, US
[72] ALMAGUER, PEDRO, US
[72] SANDNES, MARK, US
[71] ANTHONY, INC., US

[22] 2022-03-01
[41] 2023-06-09
[30] US (63/287,930) 2021-12-09

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[21] **3,151,264**
[13] A1

[51] **Int.Cl. E21B 43/1185 (2006.01) E21B 43/116 (2006.01) F42D 1/05 (2006.01)**
[25] EN
[54] **DETONATION SYSTEM HAVING SEALED EXPLOSIVE INITIATION ASSEMBLY**
[54] **SYSTEME DE DETONATION COMPORTANT UN ENSEMBLE D'AMORCE D'EXPLOSIF SCELLE**
[72] SULLIVAN SHELBY L., US
[72] HOLMBERG, AARON, US
[72] KLEINSCHMIT, NICHOLAS NOEL, US
[71] XCONNECT, LLC, US
[22] 2022-03-04
[41] 2023-06-06
[30] US (17/543,121) 2021-12-06

[21] **3,151,598**
[13] A1

[51] **Int.Cl. G06F 16/21 (2019.01)**
[25] EN
[54] **METHOD OF DATABASE REPLICATION AND DATABASE SYSTEM USING THE SAME**
[54] **METHODE DE REPRODUCTION DE BASE DE DONNEES ET SYSTEME DE BASE DE DONNEES UTILISANT LA METHODE**
[72] CHAN, YUAN CHEN, TW
[72] HSU, PO-CHIH, TW
[71] BLACKBEAR (TAIWAN) INDUSTRIAL NETWORKING SECURITY LTD., TW
[22] 2022-03-10
[41] 2023-06-09
[30] US (63/287,953) 2021-12-09
[30] US (17/673,811) 2022-02-17

[21] **3,151,599**
[13] A1

[51] **Int.Cl. H02P 6/18 (2016.01) H02K 29/00 (2006.01)**
[25] EN
[54] **MOTOR CONTROL SYSTEM AND MOTOR CONTROL METHOD**
[54] **SYSTEME ET METHODE DE COMMANDE DE MOTEUR**
[72] CHAN, YUAN CHEN, TW
[72] CHUANG, CHI-MING, TW
[71] BAMBOO DYNAMICS CORPORATION., LTD., TW
[22] 2022-03-10
[41] 2023-06-09
[30] US (63/287,959) 2021-12-09
[30] US (17/674,852) 2022-02-18

[21] **3,152,125**
[13] A1

[51] **Int.Cl. G01S 19/37 (2010.01) G01S 19/24 (2010.01)**
[25] EN
[54] **SYSTEMS, MEDIA, AND METHODS FOR PROCESSING AN INTEGRATED SIGNAL HAVING A PLURALITY OF SIGNAL COMPONENTS WITH ARBITRARY POWER ALLOCATION**
[54] **SYSTEMES, SUPPORT ET METHODES DE TRAITEMENT D'UN SIGNAL INTEGRE COMPOSE DE PLUSIEURS ELEMENTS DE SIGNAL A DISTRIBUTION DE PUISSANCE ARBITRAIRE**
[72] BROWN, DAVID A., CA
[72] FENTON, PATRICK C., CA
[71] NOVATEL INC., CA
[22] 2022-03-11
[41] 2023-06-06
[30] US (17/543,002) 2021-12-06

[21] **3,156,260**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/085 (2006.01) A61K 31/192 (2006.01) A61K 31/415 (2006.01) A61P 25/04 (2006.01) A61P 25/20 (2006.01) A61B 5/398 (2021.01) A61B 5/11 (2006.01)**
[25] EN
[54] **USE OF CANNABIDIOL FOR THE TREATMENT OF INSOMNIA ASSOCIATED TO PAIN**
[54] **UTILISATION DE CANNABIDIOL POUR LE TRAITEMENT DE L'INSOMNIE ASSOCIEE A LA DOULEUR**
[72] GOBBI, GABRIELLA, CA
[72] DE GREGORIO, DANILO, IT
[72] LOPEZ-CANUL, MARTHA GRACIELA, CA
[71] GOBBI, GABRIELLA, CA
[71] DE GREGORIO, DANILO, IT
[71] LOPEZ-CANUL, MARTHA GRACIELA, CA
[22] 2022-04-19
[41] 2023-06-06
[30] US (63/264,970) 2021-12-06

[21] **3,156,891**
[13] A1

[51] **Int.Cl. B65G 57/18 (2006.01) F26B 25/00 (2006.01)**
[25] EN
[54] **STICK LAYING APPARATUS AND STICK DISTRIBUTING UNIT FOR LAYING A PLURALITY OF SPACER STICKS OVER A BOARD LAYER**
[54] **APPAREIL DE POSE DE BATONS ET UNITE DE DISTRIBUTION DE BATONS POUR POSER PLUSIEURS BATONS D'ECARTEMENT SUR UNE COUCHE DE PANNEAU**
[72] ST-PIERRE, JEAN-MICHEL, CA
[72] ST-PIERRE, ISABELLE, CA
[71] 9374-4399 QUEBEC INC., CA
[22] 2022-04-28
[41] 2023-06-10
[30] US (63/265,220) 2021-12-10

[21] **3,161,889**
[13] A1

[51] **Int.Cl. A61H 23/00 (2006.01) A61H 1/02 (2006.01) A61H 7/00 (2006.01)**
[25] EN
[54] **THERAPEUTIC MASSAGE DEVICE**
[54] **DISPOSITIF DE MASSAGE THERAPEUTIQUE**
[72] SPENCER, SPENCE, US
[71] SPENCER, SPENCE, US
[22] 2022-06-08
[41] 2023-06-05
[30] US (63/286,047) 2021-12-05

[21] **3,163,208**
[13] A1

[51] **Int.Cl. E21B 43/34 (2006.01) B01D 21/30 (2006.01)**
[25] EN
[54] **AUTOMATED SAND SEPARATOR DISCHARGE SYSTEM**
[54] **SYSTEME DE DECHARGE AUTOMATIQUE DE SABLE D'UN SEPARATEUR DE SABLE**
[72] PITCHER, JASON, US
[71] BATFER INVESTMENT S.A., UY
[22] 2022-06-16
[41] 2023-06-09
[30] US (17/546,286) 2021-12-09

Demandes canadiennes mises à la disponibilité du public
4 juin 2023 au 10 juin 2023

[21] **3,164,505**
[13] A1

[51] **Int.Cl. B66F 3/24 (2006.01) B66F 7/28 (2006.01) B66F 9/22 (2006.01) F15B 21/08 (2006.01)**

[25] EN
[54] **LIFTING MECHANISM**
[54] **MECANISME DE LEVAGE**

[72] DU, ZHEKANG, DK
[72] CHEN, XIAOZHONG, DK
[71] DANFOSS POWER SOLUTIONS (JIANGSU) CO., LTD., CN
[71] DANFOSS POWER SOLUTIONS INC., US
[22] 2022-07-11
[41] 2023-06-06
[30] CN (202111482082.4) 2021-12-06
[30] CN (202123056345.3) 2021-12-06

[21] **3,164,508**
[13] A1

[51] **Int.Cl. B66F 3/24 (2006.01) B66F 7/28 (2006.01) B66F 9/22 (2006.01) F15B 21/08 (2006.01)**

[25] EN
[54] **LIFTING MECHANISM**
[54] **MECANISME DE LEVAGE**

[72] DU, ZHEKANG, DK
[72] CHEN, XIAOZHONG, DK
[71] DANFOSS POWER SOLUTIONS (JIANGSU) CO., LTD., CN
[71] DANFOSS POWER SOLUTIONS INC., US
[22] 2022-07-11
[41] 2023-06-06
[30] CN (202111482079.2) 2021-12-06

[21] **3,169,188**
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/40 (2012.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR RATE-LIMITING CONTROL OF TRANSACTION PROCESSING**
[54] **METHODES ET SYSTEMES POUR LE CONTROLE DE LIMITATION DE TARIF DU TRAITEMENT DE TRANSACTIONS**

[72] PELLAND, FRANCIS, CA
[72] MEUNIER, DEVON, CA
[72] HO, DENNIS, CA
[71] SHOPIFY INC., CA
[22] 2022-07-29
[41] 2023-06-10
[30] US (17/547,316) 2021-12-10

[21] **3,169,559**
[13] A1

[25] EN
[54] **SYSTEMS, APPARATUS, AND METHODS FOR DATA ENTRY AT ELECTRONIC USER DEVICES**
[54] **SYSTEME, APPAREIL ET METHODES POUR L'ENTREE DE DONNEES DANS LES DISPOSITIFS ELECTRONIQUES UTILISATEURS**

[72] CRYSTAL, DANIEL, CA
[71] SHOPIFY INC., CA
[22] 2022-08-04
[41] 2023-06-10
[30] US (17/548,260) 2021-12-10

[21] **3,169,828**
[13] A1

[51] **Int.Cl. F21V 19/00 (2006.01)**

[25] EN
[54] **ANTI-LOOSENING LIGHT DEVICE**
[54] **DISPOSITIF DE LUMIERE ANTI-DEVISSAGE**

[72] DONGCHANG, CHEN, CN
[71] DONGGUAN CITY MINLEON ELECTRONICS CO., LTD., CN
[22] 2022-08-08
[41] 2023-06-07
[30] CN (202123060778.6) 2021-12-07

[21] **3,171,070**
[13] A1

[51] **Int.Cl. B64D 45/00 (2006.01) F02C 9/00 (2006.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR OPERATING AN AIRCRAFT ENGINE**
[54] **METHODES ET SYSTEMES DE FONCTIONNEMENT D'UN MOTEUR D'AERONEF**

[72] HAMZEHI, KASRA, CA
[72] SINGH MADHOK, KULBIR, CA
[72] SMITH, MICHAEL PAUL, CA
[72] DEORAJH, DENNIS, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-24
[41] 2023-06-09
[30] US (17/546,171) 2021-12-09

[21] **3,171,074**
[13] A1

[51] **Int.Cl. B64D 31/00 (2006.01) F02D 45/00 (2006.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR OPERATING AN AIRCRAFT ENGINE**
[54] **METHODES ET SYSTEMES DE FONCTIONNEMENT D'UN MOTEUR D'AERONEF**

[72] HAMZEHI, KASRA, CA
[72] SINGH MADHOK, KULBIR, CA
[72] BELANGER, ERIC, CA
[72] DUCHESNE, CHRISTIAN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-24
[41] 2023-06-09
[30] US (17/546,179) 2021-12-09

[21] **3,172,342**
[13] A1

[51] **Int.Cl. F02C 6/08 (2006.01) F02C 9/18 (2006.01) F16K 29/00 (2006.01) F16K 31/122 (2006.01)**

[25] EN
[54] **GAS TURBINE ENGINE AND ASSOCIATED METHOD OF CONTROLLING A VALVE**
[54] **TURBINE A GAZ ET METHODE CONNEXE POUR CONTROLER UNE VANNE**

[72] DURANLEAU-HENDRICKX, LOUIS, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-08-18
[41] 2023-06-06
[30] US (17/542,825) 2021-12-06

**Canadian Applications Open to Public Inspection
June 4, 2023 to June 10, 2023**

[21] **3,173,985**
[13] A1

[51] **Int.Cl. G06Q 30/0202 (2023.01) G06N 20/00 (2019.01) G06Q 30/0601 (2023.01)**

[25] EN

[54] **TRANSACTION RECOMMENDATION AND PURCHASING ENGINE**

[54] **MOTEUR DE RECOMMANDATION DE TRANSACTION ET D'ACHAT**

[72] CHENG, LIN NI LISA, US

[72] ZHU, XIAO GUANG, US

[72] VADREVU, VYJAYANTHI, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2022-09-13

[41] 2023-06-09

[30] US (17/643,478) 2021-12-09

[21] **3,176,259**
[13] A1

[25] EN

[54] **FIXTURE AND METHOD FOR INDUCTION HEATING OF BORED PARTS**

[54] **APPAREIL ET METHODE POUR LE CHAUFFAGE PAR INDUCTION DE PARTIES FOREES**

[72] GAUDET, PIERRE, CA

[72] LACHANCE, PIERRE-LUC, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2022-09-22

[41] 2023-06-10

[30] US (17/547,848) 2021-12-10

[21] **3,176,623**
[13] A1

[51] **Int.Cl. F15C 3/02 (2006.01) F16K 31/02 (2006.01)**

[25] EN

[54] **SHUT-OFF VALVE**

[54] **ROBINET D'ARRET**

[72] TAFUNI, DOMENICO, IT

[72] MANGIONE, PIERPAOLO, IT

[71] MICROTECNICA S.R.L., IT

[22] 2022-09-27

[41] 2023-06-08

[30] EP (21213197.3) 2021-12-08

[21] **3,176,629**
[13] A1

[51] **Int.Cl. B64C 13/44 (2006.01) B64C 13/04 (2006.01) F15B 21/08 (2006.01)**

[25] EN

[54] **STABILITY AND CONTROL AUGMENTATION SYSTEM**

[54] **SYSTEME D'AUGMENTATION DE STABILITE ET DE CONTROLE**

[72] TAFUNI, DOMENICO, IT

[72] ALLEVI, SIMONE, IT

[71] MICROTECNICA S.R.L., IT

[22] 2022-09-27

[41] 2023-06-08

[30] EP (21213218.7) 2021-12-08

[21] **3,177,678**
[13] A1

[51] **Int.Cl. B02C 13/286 (2006.01) B02C 13/14 (2006.01) B02C 13/18 (2006.01) B02C 13/20 (2006.01)**

[25] EN

[54] **PULVERIZER WITH OUTPUT FLOW CONTROL AND METHODS FOR CONTROLLING OUTPUT FLOW IN A PULVERIZER**

[54] **PULVERISATEUR AVEC CONTROLE DE DEBIT DE SORTIE ET METHODES POUR CONTROLER LE DEBIT DE SORTIE DANS UN PULVERISATEUR**

[72] LUTOSLAWSKI, JAREK, BM

[72] ALDRIDGE, CLINT, BM

[72] MUELLER, CHRIS, BM

[71] TORXX KINETIC PULVERIZER LIMITED, BM

[22] 2022-09-29

[41] 2023-06-10

[30] CA (3.141.842) 2021-12-10

[21] **3,177,885**
[13] A1

[25] EN

[54] **OPTICAL SIGHT**

[54] **LUNETTE DE TIR**

[72] MAURICIO, JEREMIAH, US

[71] TRIJICON, INC., US

[22] 2022-09-29

[41] 2023-06-08

[30] US (17/545,382) 2021-12-08

[21] **3,178,426**
[13] A1

[25] EN

[54] **REFLEX SIGHT**

[54] **VISEUR REFLEX**

[72] SABALDAN ELPEDES, JERRY GLEN, US

[72] STEWART, NATHAN, US

[71] TRIJICON, INC., US

[22] 2022-10-05

[41] 2023-06-08

[30] US (17/545,450) 2021-12-08

[21] **3,178,596**
[13] A1

[25] EN

[54] **COMMERCIAL VEHICLE BACK-UP TRAINER AND METHOD**

[54] **DISPOSITIF DE FORMATION A LA MARCHE ARRIERE D'UN VEHICULE COMMERCIAL ET METHODE**

[72] KREIDLER, JASON JON, US

[72] GENS, RYAN N., US

[72] BURLSON, BENJAMIN LUKE, US

[71] J.J. KELLER & ASSOCIATES, INC., US

[22] 2022-10-07

[41] 2023-06-08

[30] US (17/545,637) 2021-12-08

[21] **3,178,689**
[13] A1

[51] **Int.Cl. G02B 27/34 (2006.01) F41G 1/30 (2006.01)**

[25] EN

[54] **REFLEX SIGHT**

[54] **VISEUR REFLEX**

[72] SABALDAN ELPEDES, JERRY GLEN, US

[72] STEWART, NATHAN, US

[71] TRIJICON, INC., US

[22] 2022-10-06

[41] 2023-06-08

[30] US (17/545,500) 2021-12-08

Demandes canadiennes mises à la disponibilité du public
4 juin 2023 au 10 juin 2023

[21] **3,179,157**
[13] A1

[51] **Int.Cl. F41G 1/30 (2006.01)**
[25] EN
[54] **REFLEX SIGHT**
[54] **VISEUR REFLEX**
[72] SABALDAN ELPEDES, JERRY
GLEN, US
[72] STEWART, NATHAN, US
[71] TRIJICON, INC., US
[22] 2022-10-13
[41] 2023-06-08
[30] US (17/545,561) 2021-12-08

[21] **3,179,206**
[13] A1

[51] **Int.Cl. B60R 16/023 (2006.01) B60W 60/00 (2020.01)**
[25] EN
[54] **INTERFACE SYSTEM FOR CONTROLLING INPUT MECHANISMS OF A VEHICLE**
[54] **SYSTEME D'INTERFACE POUR CONTROLER LES MECANISMES D'ENTREE D'UN VEHICULE**
[72] AGYEMAN, KWABENA, US
[72] DASARI, AJITHKUMAR, US
[72] RAJALA, SAMI, US
[71] EMBARK TRUCKS INC., US
[22] 2022-10-18
[41] 2023-06-07
[30] US (17/457,946) 2021-12-07

[21] **3,179,212**
[13] A1

[51] **Int.Cl. B60W 40/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO DETECT TRAILER ANGLE**
[54] **SYSTEMES ET METHODES POUR DETECTER UN ANGLE DE REMORQUE**
[72] MOAK, BRANDON, US
[71] EMBARK TRUCKS INC., US
[22] 2022-10-18
[41] 2023-06-10
[30] US (17/547,531) 2021-12-10

[21] **3,179,516**
[13] A1

[51] **Int.Cl. F03D 80/00 (2016.01) F03D 1/06 (2006.01) F16F 7/10 (2006.01) F16F 15/34 (2006.01)**
[25] EN
[54] **WIND TURBINE BLADES, WIND TURBINE BLADE ASSEMBLIES AND RELATED METHODS**
[54] **PALES D'EOLIENNE, ASSEMBLAGES DE PALES D'EOLIENNE ET METHODES CONNEXES**
[72] SCHOLTE-WASSINK, HARTMUT, DE
[72] STARKE, ANDREAS, DE
[72] BAKHUIS, WILLEM, NL
[71] GENERAL ELECTRIC RENOVABLES ESPANA S.L., ES
[22] 2022-10-21
[41] 2023-06-09
[30] EP (21383121.7) 2021-12-09

[21] **3,179,740**
[13] A1

[51] **Int.Cl. B01F 25/23 (2022.01) B01F 35/22 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MIXING FLUIDS**
[54] **METHODES ET SYSTEMES POUR LE MELANGE DE FLUIDES**
[72] COLEMAN, TIM, CA
[72] KRATSCHMAR, KENNETH WILLIAM, CA
[72] LOBOE, DAVID AARON, CA
[72] REID, CHRISTOPHER EDWIN JOHN, CA
[71] EKONA POWER INC., CA
[22] 2022-10-25
[41] 2023-06-10
[30] US (63/288,068) 2021-12-10

[21] **3,180,789**
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING BLADE PITCH OF WIND TURBINE ROTOR BLADES TO REDUCE VIBRATIONS AND LIMIT LOADS IN A LOCKED CONDITION OF THE ROTOR HUB**
[54] **SYSTEME ET METHODE POUR CONTROLER LE PAS DE PALE D'UN ROTOR D'EOLIENNE DOTE DE PALES CONFIGUREES POUR REDUIRE LES VIBRATIONS ET LIMITER LES CHARGES EN CONDITION VERROUILLEE DU MOYEU DE ROTOR**
[72] DANIELSEN, DARREN JOHN, US
[71] GENERAL ELECTRIC COMPANY, US
[22] 2022-10-31
[41] 2023-06-08
[30] US (17/545000) 2021-12-08

[21] **3,180,949**
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING BLADE PITCH ON WIND TURBINE ROTOR BLADES TO REDUCE VIBRATIONS AND LIMIT LOADS IN A LOCKED CONDITION OF THE TURBINE ROTOR**
[54] **SYSTEME ET METHODE POUR CONTROLER LE PAS DES PALES D'UN ROTOR D'EOLIENNE CONFIGUREES POUR REDUIRE LES VIBRATIONS ET LIMITER LES CHARGES EN CONDITION VERROUILLEE DU ROTOR DE TURBINE**
[72] MOTTA, VALENTINA, DE
[72] DANIELSEN, DARREN JOHN, US
[72] HARTUNG, MARIANNE LUISE SUSANNE, DE
[72] STETTNER, MARTIN, DE
[72] PASTOUCHENKO, NIKOLAI N., US
[71] GENERAL ELECTRIC RENOVABLES ESPANA, S.L., ES
[22] 2022-11-02
[41] 2023-06-08
[30] US (17/544989) 2021-12-08

**Canadian Applications Open to Public Inspection
June 4, 2023 to June 10, 2023**

[21] **3,181,529**
[13] A1

[51] **Int.Cl. F03D 7/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING BLADE PITCH OF WIND TURBINE ROTOR BLADES IN AN IDLING STATE OF THE ROTOR HUB**
[54] **SYSTEME ET METHODE POUR CONTROLER LE PAS DES PALES D'UN ROTOR D'EOLIENNE EN ETAT AU RALENTI DU MOYEU DE ROTOR**
[72] DANIELSON, DARREN JOHN, US
[71] GENERAL ELECTRIC COMPANY, US
[22] 2022-11-08
[41] 2023-06-08
[30] US (17/545,006) 2021-12-08

[21] **3,181,757**
[13] A1

[51] **Int.Cl. A61K 9/72 (2006.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01) A61K 9/00 (2006.01) A61K 36/185 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A VAPORIZABLE TABLET FOR USE IN AN ATOMIZER**
[54] **METHODE DE FABRICATION D'UN COMPRIME VAPORISABLE A UTILISER DANS UN PULVERISATEUR**
[72] LI, SAN, US
[72] SCATTERDAY, MARK A., US
[72] WALKER, JORDAN, US
[71] JUPITER RESEARCH, LLC, US
[22] 2022-11-10
[41] 2023-06-08
[30] US (63287126) 2021-12-08
[30] US (63334989) 2022-04-26

[21] **3,182,049**
[13] A1

[51] **Int.Cl. C08K 9/04 (2006.01) A61K 6/60 (2020.01) C08J 3/20 (2006.01) C08K 9/06 (2006.01) C08L 101/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING HYDROPHOBIZED AND REACTIVE, INORGANIC AND/OR ORGANIC FILLERS, FILLERS THUS PRODUCED, AND MOLDING PRODUCED FROM A POLYMER-BASED CASTING COMPOUND CONTAINING AT LEAST ONE SUCH FILLER**
[54] **PROCEDE POUR LA PRODUCTION D'AGENTS DE REMPLISSAGE INORGANIQUE ET/OU ORGANIQUE, HYDROPHOBISES ET REACTIFS, AGENTS DE REMPLISSAGE AINSI PRODUITS, ET MOULE PRODUIT D'UN COMPOSE DE MOULAGE A BASE DE POLYMERE CONTENANT AU MOINS UN AGENT DE REMPLISSAGE**
[72] DATSYUK, DR. VITALIY, DE
[72] ORENDORZ, DR. ADAM, DE
[71] SCHOCK GMBH, DE
[22] 2022-11-15
[41] 2023-06-09
[30] DE (102021132486.6) 2021-12-09

[21] **3,182,155**
[13] A1

[51] **Int.Cl. F21V 5/02 (2006.01)**
[25] EN
[54] **ANTI-GLARE REFRACTORS FOR LUMINAIRES**
[54] **REFRACTEURS ANTIREFLETS POUR APPAREILS D'ECLAIRAGE**
[72] WU, YINAN, US
[72] RICKETTS, MELISSA, US
[71] ABL IP HOLDING LLC, US
[22] 2022-11-23
[41] 2023-06-08
[30] US (17/545,511) 2021-12-08

[21] **3,182,279**
[13] A1

[51] **Int.Cl. A01G 9/02 (2018.01)**
[25] EN
[54] **MODULAR CONTAINER FOR GROWING PLANTS**
[54] **CONTENANT MODULAIRE POUR LA CROISSANCE DE PLANTES**
[72] ROBERGE, MARTIN J., US
[71] CNH INDUSTRIAL CANADA, LTD., CA
[22] 2022-11-21
[41] 2023-06-07
[30] US (17/544,067) 2021-12-07

[21] **3,182,496**
[13] A1

[25] EN
[54] **IDENTIFYING A PHISHING ATTEMPT**
[54] **DETERMINATION D'UNE TENTATIVE D'HAMECONNAGE**
[72] SIRCAR, SHILADITYA, CA
[71] BLACKBERRY LIMITED, CA
[22] 2022-11-21
[41] 2023-06-09
[30] US (17/546,946) 2021-12-09

[21] **3,182,498**
[13] A1

[51] **Int.Cl. B65B 43/00 (2006.01) B29C 49/78 (2006.01) B65B 43/26 (2006.01) B65D 77/04 (2006.01) B65G 47/74 (2006.01)**
[25] EN
[54] **APPARATUS FOR DETACHING FOLDABLE INNER BAGS FROM THE INNER WALLS OF RIGID OUTER CONTAINERS**
[54] **APPAREIL POUR DETACHER DES SACS INTERIEURS PLIABLES DE PAROIS INTERIEURES DE CONTENANTS EXTERIEURS RIGIDES**
[72] KNEER, STEPHAN, DE
[72] YILGINC, KASIM, DE
[71] GAPLAST GMBH, DE
[22] 2022-11-21
[41] 2023-06-08
[30] DE (10 2021 132 329.0) 2021-12-08

Demandes canadiennes mises à la disponibilité du public
4 juin 2023 au 10 juin 2023

[21] **3,182,719**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR OFFLOADING PROCESSING-INTENSIVE VIDEO CONFERENCING TASK TO EDGE COMPUTING DEVICE**
[54] **SYSTEMES ET METHODES POUR DECHARGER UNE TACHE DE VIDEOCONFERENCE A TRAITEMENT INTENSIF A UN DISPOSITIF EN PERIPHERIQUE DE RESEAU**
[72] DOKEN, SERHAD, US
[71] ROVI GUIDES, INC., US
[22] 2022-11-22
[41] 2023-06-08
[30] US (17/545318) 2021-12-08

[21] **3,182,815**
[13] A1

[51] **Int.Cl. F04D 29/34 (2006.01) F04D 25/06 (2006.01) F04D 25/08 (2006.01) F04D 29/36 (2006.01)**
[25] EN
[54] **CEILING FAN WITH ADJUSTABLE BLADES**
[54] **VENTILATEUR DE PLAFOND AVEC PALES AJUSTABLES**
[72] O'BRIEN, AARON, US
[72] KENG, JAMES, US
[71] CORDELIA LIGHTING INC., US
[22] 2022-11-24
[41] 2023-06-08
[30] US (17/976,846) 2022-10-30
[30] US (63/317,963) 2022-03-09
[30] US (63/321,657) 2022-03-18

[21] **3,182,837**
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G06F 3/0481 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PATIENT MANAGEMENT**
[54] **METHODES ET SYSTEMES DE GESTION DE PATIENT**
[72] MANCL, RYAN, US
[72] TERRY, JEFFREY RICHARDSON, US
[72] FIXLER, TAMAS, CA
[72] MARTIN, KATHLEEN, US
[72] PANDA, PRAVAT, US
[72] CHANG, JEHOHUA JOON, US
[71] GE PRECISION HEALTHCARE LLC, US
[22] 2022-11-25
[41] 2023-06-08
[30] US (17/643,381) 2021-12-08

[21] **3,182,846**
[13] A1

[51] **Int.Cl. F01D 11/02 (2006.01) F01D 9/04 (2006.01) F01D 11/08 (2006.01)**
[25] EN
[54] **VOLUTED HOOK ANGEL-WING FLOW DISCOURAGER**
[54] **LIMITEUR DE FLUX EN PLAQUETTES A CROCHET A VOLUTES**
[72] KIM, YONG W., US
[72] LOCKYER, JOHN F., US
[72] ALVAREZ, RAYMOND I., US
[71] SOLAR TURBINES INCORPORATED, US
[22] 2022-11-25
[41] 2023-06-06
[30] US (17/543475) 2021-12-06

[21] **3,182,965**
[13] A1

[51] **Int.Cl. F02C 9/24 (2006.01) B64D 45/00 (2006.01) F02C 7/057 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING AIRCRAFT ENGINE INLET TOTAL PRESSURE**
[54] **METHODE ET SYSTEME POUR DETERMINER UNE PRESSION TOTALE D'ENTREE DE MOTEUR D'AERONEF**
[72] CLOUTIER, YVES, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-11-25
[41] 2023-06-07
[30] US (17/643,072) 2021-12-07

[21] **3,182,987**
[13] A1

[51] **Int.Cl. B22F 1/16 (2022.01) B33Y 70/00 (2020.01) B22F 10/00 (2021.01) B22F 1/142 (2022.01) B22F 9/08 (2006.01)**
[25] EN
[54] **ADDITIVE MANUFACTURING POWDER MATERIAL AND METHOD FOR MANUFACTURING ADDITIVE MANUFACTURING POWDER MATERIAL**
[54] **MATERIAU DE POUDRE DE FABRICATION ADDITIVE ET METHODE DE FABRICATION DE CE MATERIAU**
[72] KANAI, DAISUKE, JP
[72] MATSUOKA, YUKI, JP
[71] DAIDO STEEL CO., LTD., JP
[22] 2022-11-25
[41] 2023-06-06
[30] JP (2021-197469) 2021-12-06

[21] **3,183,008**
[13] A1

[51] **Int.Cl. A22C 21/00 (2006.01) A22B 5/16 (2006.01)**
[25] EN
[54] **A DESKINNING APPARATUS FOR A POULTRY LEG**
[54] **APPAREIL DE DEPECAGE D'UNE PATTE DE VOLAILLE**
[72] BLOOM, DENNIS, NL
[71] MEYN FOOD PROCESSING TECHNOLOGY B.V., NL
[22] 2022-11-25
[41] 2023-06-10
[30] NL (2030106) 2021-12-10

Canadian Applications Open to Public Inspection
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[21] **3,183,019**
[13] A1

[51] **Int.Cl. B66C 13/04 (2006.01) B66C 13/08 (2006.01) B66C 13/10 (2006.01) B66C 13/16 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING A MOVEMENT OF A LOAD IN A WORKSPACE OF A LOAD TRANSPORT DEVICE**

[54] **METHODE DE CONTROLE D'UN MOUVEMENT D'UNE CHARGE DANS UN ESPACE DE TRAVAIL D'UN DISPOSITIF DE TRANSPORT DE CHARGE**

[72] EBERHARTER, JOHANNES KARL, AT

[72] LANG, ROBERT, AT

[72] KLAPPER, GEORG, AT

[71] HANS KUNZ GMBH, AT

[22] 2022-12-01

[41] 2023-06-06

[30] AT (A 192/2021) 2021-12-06

[21] **3,183,035**
[13] A1

[51] **Int.Cl. F22D 1/40 (2006.01) F22B 37/00 (2006.01) F22B 37/68 (2006.01) F22D 11/06 (2006.01)**

[25] EN

[54] **STEAM BOILER SYSTEM AND METHOD OF CIRCULATING WATER AND STEAM IN A STEAM BOILER SYSTEM**

[54] **SYSTEME DE CHAUDIERE A VAPEUR ET METHODE DE CIRCULATION D'EAU ET DE VAPEUR DANS UN SYSTEME DE CHAUDIERE A VAPEUR**

[72] LACH, PATRICK, CA

[72] RANALLO, ANTHONY G., US

[71] MAXI-THERME INC., CA

[22] 2022-12-01

[41] 2023-06-06

[30] US (63/286,132) 2021-12-06

[21] **3,183,068**
[13] A1

[51] **Int.Cl. A61G 5/14 (2006.01) A47K 3/12 (2006.01)**

[25] EN

[54] **LIFT ASSIST SHOWER CHAIR**

[54] **FAUTEUIL DE DOUCHE A AIDE AU LEVAGE**

[72] VAN DONGEN, PETER GUY, US

[72] ZWARTS, JOHANNES DEWET, US

[71] DWP INDUSTRIES LLC, US

[22] 2022-11-29

[41] 2023-06-08

[30] US (63/287,441) 2021-12-08

[30] US (63/287,453) 2021-12-08

[30] US (17/831,320) 2022-06-02

[21] **3,183,092**
[13] A1

[51] **Int.Cl. A45F 3/04 (2006.01)**

[25] EN

[54] **BACKPACK WITH SHOULDER STRAPS CROSSING AND NON-FIXED AT TOP TO SUPPORT LOAD FROM BASE**

[54] **SAC A DOS AVEC BANDOULIERES CROISEES ET NON FIXEES PAR LE HAUT POUR SOUTENIR LA CHARGE PAR LA BASE**

[72] ARMITAGE, GRAHAM MARK, CA

[71] ARMITAGE, GRAHAM MARK, CA

[22] 2022-12-02

[41] 2023-06-06

[30] CA (3141175) 2021-12-06

[21] **3,183,247**
[13] A1

[25] EN

[54] **METHOD AND SYSTEM FOR DETECTING A CYBERSECURITY BREACH**

[54] **METHODE ET SYSTEME POUR DETECTER UNE EFFRACTION DE CYBERSECURITE**

[72] SMYTH CATHAL, CA

[72] GOLKAR, MAHSA, CA

[72] ROSS, JAMES, CA

[72] RAHMANI, SAHAR, CA

[72] YADAV, VIKASH, CA

[72] AFSARIARDCHI, NILOUFAR, CA

[71] ROYAL BANK OF CANADA, CA

[22] 2022-12-05

[41] 2023-06-06

[30] US (17/543,444) 2021-12-06

[21] **3,183,265**
[13] A1

[51] **Int.Cl. B01J 37/08 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCING AN OLIGOMERIZATION CATALYST HAVING A HYDROTHERMAL TREATMENT STEP**

[54] **PROCEDE DE PRODUCTION D'UN CATALYSEUR D'OLIGOMERISATION COMPRENANT UNE ETAPE DE TRAITEMENT HYDROTHERMIQUE**

[72] KNOSSALLA, JOHANNES, DE

[72] QUANDT, THOMAS, DE

[72] FRANKE, ROBERT, DE

[71] EVONIK OPERATIONS GMBH, DE

[22] 2022-11-29

[41] 2023-06-08

[30] EP (21213152.8) 2021-12-08

[21] **3,183,281**
[13] A1

[51] **Int.Cl. E04B 1/58 (2006.01) E04B 1/24 (2006.01) E04H 9/02 (2006.01)**

[25] EN

[54] **STRUCTURAL FUSES CONFIGURED TO YIELD IN TENSION AND COMPRESSION AND STRUCTURES INCLUDING THE SAME**

[54] **FUSIBLES STRUCTURAUX CONFIGURES POUR UN RENDEMENT EN TENSION ET EN COMPRESSION ET STRUCTURES LES COMPRENANT**

[72] RICHARDS, PAUL WILLIAMS, US

[71] DURAFUSE FRAMES, LLC, US

[22] 2022-12-05

[41] 2023-06-08

[30] US (63/287,308) 2021-12-08

[21] **3,183,300**
[13] A1

[51] **Int.Cl. F24H 1/14 (2006.01) F24H 1/40 (2022.01) F24H 8/00 (2022.01) F24H 9/00 (2022.01) F28F 9/22 (2006.01)**

[25] EN

[54] **WATER HEATER**

[54] **CHAUFFE-EAU**

[72] KAKIZAKI, YUSUKE, JP

[71] PALOMA CO., LTD., JP

[22] 2022-11-30

[41] 2023-06-08

[30] JP (2021-199277) 2021-12-08

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[21] **3,183,353**
 [13] A1

[51] **Int.Cl. G01V 1/30 (2006.01)**
 [25] EN
 [54] **NOISE REDUCTION FOR MICRO-SEISMIC MONITORING USING DEEP LEARNING**
 [54] **REDUCTION DE BRUIT POUR LA SURVEILLANCE MICROSEMIQUE AU MOYEN DE L'APPRENTISSAGE PROFOND**
 [72] SINGH, SUDEEP, CA
 [72] LIU, XINLONG, CA
 [72] COSTIN, SIMONA O., CA
 [72] REAUME, CHRISTOPHER T., CA
 [72] FINK, TAYLOR K., CA
 [71] IMPERIAL OIL RESOURCES LIMITED, CA
 [22] 2022-11-30
 [41] 2023-06-07
 [30] US (63/265,061) 2021-12-07

[21] **3,183,450**
 [13] A1

[51] **Int.Cl. A61L 2/02 (2006.01) D06M 10/00 (2006.01) D06M 11/00 (2006.01)**
 [25] EN
 [54] **ANTIBACTERIAL FABRIC AND COMPOSITION**
 [54] **TISSU ANTIBACTERIEN ET COMPOSITION**
 [72] GHALILI, BABAK, US
 [72] BORJA, JOHN, US
 [72] GOLDBERG, ARTHUR, US
 [72] DAWSON, DONALD V., US
 [71] GHALILI, BABAK, US
 [71] BORJA, JOHN, US
 [71] GOLDBERG, ARTHUR, US
 [71] DAWSON, DONALD V., US
 [22] 2022-12-06
 [41] 2023-06-06
 [30] US (63/286,209) 2021-12-06

[21] **3,183,517**
 [13] A1

[51] **Int.Cl. C05G 3/00 (2020.01) C05G 3/20 (2020.01) C05D 11/00 (2006.01) C09K 17/00 (2006.01) C04B 26/00 (2006.01) C04B 28/00 (2006.01)**
 [25] EN
 [54] **ROCK FINES AS CARRIERS OF PLANT NUTRIENTS**
 [54] **FINES ROCHEUSES COMME PORTEUSES D'ELEMENTS NUTRITIFS DE PLANTES**
 [72] KHATIWADA, RAJU, US
 [72] RARDON, DANIEL, US
 [71] SPECIALTY GRANULES INVESTMENTS LLC, US
 [22] 2022-12-06
 [41] 2023-06-09
 [30] US (63/287,590) 2021-12-09
 [30] US (17/952,899) 2022-09-26

[21] **3,183,408**
 [13] A1

[51] **Int.Cl. E21B 33/16 (2006.01) E21B 37/02 (2006.01)**
 [25] EN
 [54] **MODIFIED CEMENT PLUG AND METHODS OF USE**
 [54] **BOUCHON DE CIMENT MODIFIE ET METHODES D'UTILISATION**
 [72] LAUN, LYLE, CA
 [71] CANADIAN CASING ACCESSORIES INC., CA
 [22] 2022-11-30
 [41] 2023-06-06
 [30] US (63/286,274) 2021-12-06

[21] **3,183,459**
 [13] A1

[51] **Int.Cl. C22B 3/12 (2006.01) C22B 3/06 (2006.01) C22B 3/22 (2006.01) C22B 59/00 (2006.01)**
 [25] EN
 [54] **HIGH PRESSURE CAUSTIC LEACH METHODS AND PROCESSES FOR RECOVERY OF SCANDIUM AND RARE-EARTH OXIDES**
 [54] **METHODES DE LESSIVAGE CAUSTIQUE HAUTE PRESSION ET PROCEDES DE RECUPERATION DE SCANDIUM ET D'OXYDES DE TERRES RARES**
 [72] OYEDIRAN, YEMI, CA
 [72] RISCHÉ, DANIEL, DE
 [72] GRAF, CHRISTIAN, DE
 [71] IMPERIAL MINING GROUP LIMITED, CA
 [22] 2022-12-06
 [41] 2023-06-09
 [30] US (63/265,176) 2021-12-09

[21] **3,183,546**
 [13] A1

[51] **Int.Cl. E21B 17/00 (2006.01) E21B 17/042 (2006.01)**
 [25] EN
 [54] **DRILL PIPE WITH INCREASED DRILL PIPE BODY WALL THICKNESS AND OUTSIDE DIAMETER**
 [54] **TIGE DE FORAGE A EPAISSEUR DE PAROI DE CORPS ET A DIAMETRE EXTERIEUR ACCRUS**
 [72] MESSER, RUSSELL, CA
 [72] MCKLEMURRY, CHRISTOPHER, US
 [71] MESSER, RUSSELL, CA
 [71] MCKLEMURRY, CHRISTOPHER, US
 [22] 2022-12-08
 [41] 2023-06-08
 [30] US (63/265,118) 2021-12-08

[21] **3,183,442**
 [13] A1

[51] **Int.Cl. G06V 40/20 (2022.01) G06Q 30/06 (2023.01) G06T 7/20 (2017.01)**
 [25] EN
 [54] **SYSTEM AND METHOS FOR SELECTING A SPORTING EQUIPMENT**
 [54] **SYSTEME ET METHODES POUR SELECTIONNER UN EQUIPEMENT SPORTIF**
 [72] JARJOUR, WILLIAM JESSE CARIM, CA
 [72] CORNET, JEROME BERTRAND NICOLAS, CA
 [71] MYVELOFIT INC., CA
 [22] 2022-12-06
 [41] 2023-06-06
 [30] US (63/286,341) 2021-12-06

[21] **3,183,553**
 [13] A1

[51] **Int.Cl. E04C 1/00 (2006.01) E04C 1/39 (2006.01)**
 [25] EN
 [54] **NESTED MASONRY BLOCK MANUFACTURING SYSTEM AND METHOD**
 [54] **SYSTEME ET METHODE DE FABRICATIONS DE BLOCS DE MACONNERIE NICHES**
 [72] KARAU, WILLIAM H., US
 [71] PAVESTONE, LLC, US
 [22] 2022-12-08
 [41] 2023-06-08
 [30] US (17/545,435) 2021-12-08

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[21] **3,183,563**
[13] A1

[25] EN
[54] **TTC ANTENNA ARRANGEMENT FOR A FLAT SATELLITE**
[54] **CONFIGURATION D'ANTENNES TTC POUR UN SATELLITE PLAT**
[72] FERRANDO, NICOLAS, FR
[72] LEPELTIER, PHILIPPE, FR
[72] POPULUS, THIERRY, FR
[71] THALES, FR
[22] 2022-12-08
[41] 2023-06-09
[30] FR (2113212) 2021-12-09

[21] **3,183,583**
[13] A1

[25] EN
[54] **MULTIPLEXING READOUT CIRCUIT AND METHOD FOR ELECTROMAGNETIC INSPECTION ARRAY PROBE**
[54] **CIRCUIT DE LECTURE PAR MULTIPLEXAGE ET METHODE POUR SONDE DE RESEAU D'INSPECTION ELECTROMAGNETIQUE**
[72] JEANSON, FRANCIS, CA
[72] HARDY, FLORIAN, CA
[71] EDDYFI CANADA INC., CA
[22] 2022-12-07
[41] 2023-06-08
[30] US (63/265,103) 2021-12-08

[21] **3,183,657**
[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 23/14 (2006.01) E21B 33/134 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PERMANENT PLUGGING OF A PETROLEUM WELL**
[54] **SYSTEME ET METHODE POUR LE BOUCHONNAGE PERMANENT D'UN Puits DE PETROLE**
[72] HAUGLAND, LASSE, NO
[71] ALTUS INTERVENTION (TECHNOLOGIES) AS, NO
[22] 2022-12-08
[41] 2023-06-10
[30] NO (20211489) 2021-12-10

[21] **3,183,660**
[13] A1

[51] **Int.Cl. G09B 5/08 (2006.01) G06Q 50/20 (2012.01) G06N 5/02 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CUSTOMIZING AND DISPLAYING USER LEARNING PATHS**
[54] **SYSTEMES ET METHODES POUR PERSONNALISER ET AFFICHER DES VOIES D'APPRENTISSAGE D'UTILISATEUR**
[72] RINGS, JOERG, US
[72] M'NDANGE-PFUPFU, ARIEL, US
[72] ZHANG, CHI, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2022-12-05
[41] 2023-06-07
[30] US (17/544,351) 2021-12-07

[21] **3,183,666**
[13] A1

[51] **Int.Cl. F01D 15/10 (2006.01) F01D 25/00 (2006.01)**
[25] EN
[54] **HYDROGEN EXPANDER MAGNETIC GENERATOR APPARATUS AND METHOD**
[54] **APPAREIL ET METHODE DE GENERATEUR MAGNETIQUE D'EXTENSION D'HYDROGENE**
[72] TANG, GENGLIN, US
[72] SILVESTRE, CANDICE DAIBES, US
[72] EISWERTH, ETHAN D., US
[72] BENTON, ROBERT E., JR, US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2022-12-07
[41] 2023-06-09
[30] US (17/546,409) 2021-12-09

[21] **3,183,698**
[13] A1

[25] EN
[54] **HEAD UP DISPLAY SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE D'AFFICHAGE TETE-HAUTE**
[72] GOSTLIN, RICHARD ALLAN, CA
[72] SANDQUIST, DEREK LEE, CA
[72] FENKHUBER, JACK WILLIAM, CA
[71] VALID MANUFACTURING LTD., CA
[22] 2022-12-08
[41] 2023-06-08
[30] US (63/287,421) 2021-12-08
[30] CA (3141256) 2021-12-08

[21] **3,183,715**
[13] A1

[25] FR
[54] **DEVICE FOR 5G COMMUNICATION BETWEEN A MOBILE TERMINAL AND A CENTRAL NETWORK VIA A SATELLITE**
[54] **DISPOSITIF DE COMMUNICATION POUR UNE COMMUNICATION 5G ENTRE UN TERMINAL MOBILE ET UN RESEAU CENTRAL VIA UN SATELLITE**
[72] ARNAUD, MATHIEU, FR
[72] BAUDRY, BENJAMIN, FR
[71] THALES, FR
[22] 2022-12-08
[41] 2023-06-09
[30] FR (2113205) 2021-12-09

[21] **3,183,726**
[13] A1

[25] FR
[54] **METHOD FOR PRE-COMPENSATION OF TEMPORAL DIFFERENCES**
[54] **PROCEDE DE PRE-COMPENSATION D'ECARTS TEMPORELS**
[72] ARNAUD, MATHIEU, FR
[72] BAUDRY, BENJAMIN, FR
[71] THALES, FR
[22] 2022-12-08
[41] 2023-06-09
[30] FR (2113204) 2021-12-09

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[21] **3,183,772**
[13] A1

[51] **Int.Cl. A61K 31/716 (2006.01) A23L 33/11 (2016.01) A23L 33/125 (2016.01) A23L 33/21 (2016.01) A23L 2/52 (2006.01) A61K 31/56 (2006.01) A61P 3/10 (2006.01)**

[25] EN
[54] **HYPOGLYCEMIC COMPOSITIONS**
[54] **COMPOSITIONS HYPOGLYCEMIANTES**

[72] CUI, DONGYING, CN
[72] XIE, QINGGANG, CN
[72] LIU, YING, CN
[72] LU, SIYU, CN
[72] JIANG, SHILONG, CN
[72] LIANG, AIMEI, CN
[72] ZHANG, YONGJIU, CN
[72] CAI, FANGLIANG, CN
[72] LENG, YOUBIN, CN
[71] HEILONGJIANG FEIHE DAIRY CO., LTD., CN
[22] 2022-12-08
[41] 2023-06-10
[30] CN (202111504887.4) 2021-12-10

[21] **3,183,779**
[13] A1

[51] **Int.Cl. E02F 5/20 (2006.01)**

[25] EN
[54] **HOLE OPENER**
[54] **ELARGISSEUR**

[72] GRAHAM, CODY D., CA
[72] WHEELER, JAMES, CA
[72] OTTATI, JUAN, CA
[71] PRECISE DRILLING COMPONENTS LTD, CA
[22] 2022-12-09
[41] 2023-06-09
[30] US (63/287,729) 2021-12-09

[21] **3,184,035**
[13] A1

[51] **Int.Cl. G06Q 10/0639 (2023.01) G06Q 50/20 (2012.01) G06Q 30/0282 (2023.01)**

[25] EN
[54] **SURVEY SYSTEM WITH CURATION INTERFACE AND DYNAMIC QUESTIONING**
[54] **SYSTEME DE SONDAGE COMPRENANT UNE INTERFACE DE CONSERVATION ET DES QUESTIONS DYNAMIQUES**

[72] DOWELL, SHANI, US
[71] POSSIP, INC., US
[22] 2022-12-09
[41] 2023-06-10
[30] US (63/288,281) 2021-12-10

[21] **3,184,051**
[13] A1

[51] **Int.Cl. F24C 1/12 (2006.01) F24C 1/10 (2006.01) F24C 1/16 (2021.01)**

[25] EN
[54] **PATIO HEATER WITH REFLECTIVE FINS**
[54] **RADIATEUR DE PATIO AVEC DES AILETTES REFLECHISSANTES**

[72] BEEPATH, KEVIN, CA
[72] SMITH, ADAM, CA
[72] VAN LANG, JORAN, CA
[72] SCOTT, JIM, CA
[71] CANADIAN TIRE CORPORATION, LIMITED, CA
[22] 2022-12-05
[41] 2023-06-06
[30] US (63/286,225) 2021-12-06

[21] **3,184,631**
[13] A1

[51] **Int.Cl. E03D 11/14 (2006.01)**

[25] EN
[54] **WALL-MOUNTED WATER CLOSET CARRIER ASSEMBLY**
[54] **ASSEMBLAGE DE SUPPORT DE CABINET D'AISANCES MONTE SUR LE MUR**

[72] SAY, CHRISTOPHER J., US
[72] BISSELL, DONALD J., US
[72] BENESH, MICHAEL T., US
[72] GOMO, DAVID M., US
[72] LAWRENCE, MATT, US
[72] SCHAEZKE, FRANK, US
[72] HENDERSON, MATT, US
[72] CRONIN, ZACH, US
[72] MAJOCKA, CHRIS, US
[72] YOUNG, SCOTT, US
[72] ROSE, JAKE, US
[72] WENZEL, SETH, US
[72] TWAROSKI, JACOB, US
[72] WOELHKE, BILL, US
[71] ZURN INDUSTRIES, LLC, US
[22] 2022-12-06
[41] 2023-06-07
[30] US (63/286,927) 2021-12-07
[30] US (63/305,243) 2022-01-31
[30] US (63/363,478) 2022-04-22
[30] US (63/374,341) 2022-09-01
[30] US (63/375,383) 2022-09-12

[21] **3,184,664**
[13] A1

[51] **Int.Cl. B60W 60/00 (2020.01) B66F 9/06 (2006.01)**

[25] EN
[54] **MATERIAL HANDLING VEHICLE GUIDANCE SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODE DE GUIDAGE DE VEHICULE DE MANUTENTION**

[72] MURLI, SATHVIK, US
[72] D'ACCOLTI, ANTHONY V., US
[72] SUNNY, JOEL N., US
[71] THE RAYMOND CORPORATION, US
[22] 2022-12-06
[41] 2023-06-07
[30] US (63/286909) 2021-12-07

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[21] **3,184,669**
[13] A1

[51] **Int.Cl. A01H 6/82 (2018.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **TOMATO HYBRID SVTM9032 AND PARENTS THEREOF**

[54] **TOMATE HYBRIDE SVTM9032 ET PARENTS**

[72] KRAMER, CHAD, US

[71] SEMINIS VEGETABLE SEEDS, INC., US

[22] 2022-12-06

[41] 2023-06-07

[30] US (17/544560) 2021-12-07

[21] **3,184,801**
[13] A1

[51] **Int.Cl. B62D 3/12 (2006.01) F16C 33/20 (2006.01)**

[25] EN

[54] **DUAL BUSHING STEERING RACK**

[54] **CREMAILLERE DE DIRECTION A DEUX BAGUES**

[72] THORNTON, KEN, US

[71] SUPER ATV, LLC, US

[22] 2022-12-07

[41] 2023-06-08

[30] US (17/643,222) 2021-12-08

[21] **3,184,936**
[13] A1

[51] **Int.Cl. F17C 13/04 (2006.01) F16L 5/00 (2006.01)**

[25] EN

[54] **PRESSURE VESSEL AND METHOD FOR FILLING IT**

[54] **RECIPIENT SOUS PRESSION ET METHODE DE REMPLISSAGE**

[72] JAHN, ANDREAS, DE

[72] ORTLEPP, TOBIAS, DE

[71] ASS-NBG GMBH, DE

[22] 2022-12-09

[41] 2023-06-10

[30] DE (10 2021 132 643.5) 2021-12-10

[21] **3,185,016**
[13] A1

[51] **Int.Cl. B62D 61/12 (2006.01) B60W 40/13 (2012.01) B60P 3/16 (2006.01)**

[25] EN

[54] **WORK VEHICLE AUXILIARY AXLE CONTROL**

[54] **COMMANDE AUXILIAIRE D'ESSIEU DE VEHICULE DE TRAVAIL**

[72] ANDRINGA, JEREMY, US

[71] OSHKOSH CORPORATION, US

[22] 2022-12-07

[41] 2023-06-07

[30] US (63/286,802) 2021-12-07

[30] US (18/075,209) 2022-12-05

[21] **3,185,023**
[13] A1

[51] **Int.Cl. C10M 159/22 (2006.01)**

[25] EN

[54] **BORATED DETERGENTS AND THEIR LUBRICATING APPLICATIONS**

[54] **DETERGENTS BORES ET APPLICATIONS DE LUBRIFICATION**

[72] COXON, ALEXANDER, GB

[72] DELAMORE, OLIVER, GB

[72] POPOWICZ, MARCUS, GB

[72] RANA, MALLIKA, GB

[72] SAMONTE, ARA, GB

[72] WILKINSON, THOMAS, GB

[71] INFINEUM INTERNATIONAL LIMITED, GB

[22] 2022-12-08

[41] 2023-06-09

[30] EP (21213439.9) 2021-12-09

[21] **3,185,048**
[13] A1

[51] **Int.Cl. B65D 85/64 (2006.01) B65B 5/04 (2006.01) B65D 81/00 (2006.01) B65D 88/00 (2006.01)**

[25] EN

[54] **PROTECTIVE DOOR PACKAGING FOR PREHUNG DOOR ASSEMBLIES AND METHOD OF PACKAGING PREHUNG DOOR ASSEMBLIES**

[54] **EMBALLAGE DE PROTECTION DE PORTE POUR DES ASSEMBLAGES DE BLOCS PORTES ET METHODES D'EMBALLAGE D'ASSEMBLAGES DE BLOCS PORTES**

[72] FARISH, STEVEN, US

[72] ABBAS, TOM, US

[72] BURBA, GARRETT, US

[72] FINDLEY, RANDY, US

[72] DUSHARM, KEITH, US

[72] LEO, RICK, US

[71] MASONITE CORPORATION, US

[22] 2022-12-09

[41] 2023-06-10

[30] US (63/288183) 2021-12-10

[21] **3,185,109**
[13] A1

[51] **Int.Cl. H01M 8/0662 (2016.01) H01M 8/04007 (2016.01) H01M 8/0668 (2016.01)**

[25] EN

[54] **FUEL CELL SYSTEM AND METHOD OF OPERATING THEREOF AT NEAR ONE HUNDRED PERCENT FUEL UTILIZATION**

[54] **SYSTEME DE PILE A COMBUSTIBLE ET METHODE D'EXPLOITATION A QUASI CENT POUR CENT D'UTILISATION DE CARBURANT**

[72] WEINGAERTNER, DAVID, US

[72] YOUNG, GREG, US

[72] SRIVATSAN, VIJAY, US

[72] PETRUCHA, MICHAEL, US

[71] BLOOM ENERGY CORPORATION, US

[22] 2022-12-09

[41] 2023-06-09

[30] US (63/287,753) 2021-12-09

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[21] **3,185,157**
[13] A1

[51] **Int.Cl. G06N 20/20 (2019.01) G06V 10/40 (2022.01) G06V 20/10 (2022.01)**
[25] EN
[54] **HIERARCHICAL CONTEXT IN RISK ASSESSMENT USING MACHINE LEARNING**
[54] **CONTEXTE HIERARCHIQUE DANS L'EVALUATION DES RISQUES AU MOYEN DE L'APPRENTISSAGE AUTOMATIQUE**
[72] LI, XIN, US
[72] GUPTA, AKSHINA, US
[72] SINGARAJU, NISHANTH, US
[72] COWAN, ELIOT JULIEN, US
[71] X DEVELOPMENT LLC, US
[22] 2022-12-07
[41] 2023-06-07
[30] US (63/265,051) 2021-12-07

[21] **3,185,162**
[13] A1

[25] EN
[54] **TRAINING MACHINE LEARNING MODELS TO PREDICT FIRE BEHAVIOR**
[54] **ENTRAINEMENT DE MODELES D'APPRENTISSAGE AUTOMATIQUE POUR PREVOIR LE COMPORTEMENT DU FEU**
[72] GUPTA, AKSHINA, US
[72] COWAN, ELIOT JULIEN, US
[71] X DEVELOPMENT LLC, US
[22] 2022-12-07
[41] 2023-06-07
[30] US (63/265,038) 2021-12-07

[21] **3,185,163**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06N 20/20 (2019.01)**
[25] EN
[54] **TRAINING MACHINE LEARNING MODELS TO PREDICT CHARACTERISTICS OF ADVERSE EVENTS USING INTERMITTENT DATA**
[54] **ENTRAINEMENT DE MODELES D'APPRENTISSAGE AUTOMATIQUE POUR PREVOIR DES CARACTERISTIQUES D'EVENEMENTS NUISIBLES AU MOYEN DE DONNEES INTERMITTENTES**
[72] GUPTA, AKSHINA, US
[72] COWAN, ELIOT JULIEN, US
[72] RAO, KRISHNA KUMAR, US
[71] X DEVELOPMENT LLC, US
[22] 2022-12-07
[41] 2023-06-07
[30] US (63/265,042) 2021-12-07

[21] **3,185,183**
[13] A1

[51] **Int.Cl. C12N 15/29 (2006.01) A01H 6/14 (2018.01) C12Q 1/6895 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **LETTUCE PLANTS HAVING RESISTANCE TO DOWNY MILDEW**
[54] **PLANTS DE LAITUE COMPRENANT UNE RESISTANCE AU MILDIOU**
[72] HAGEN, CHARLES, US
[72] MORGAN, ROBYN L., US
[72] SCHRYVE, PHILIPPE, US
[71] SEMINIS VEGETABLE SEEDS, INC., US
[22] 2022-12-09
[41] 2023-06-10
[30] US (63/288364) 2021-12-10

[21] **3,185,247**
[13] A1

[51] **Int.Cl. C07D 301/02 (2006.01)**
[25] EN
[54] **METHODS OF PRODUCING GLYCIDYL NITRATE AND RELATED SYSTEMS**
[54] **METHODES DE PRODUCTION DE NITRATE DE GLYCIDYLE ET SYSTEMES CONNEXES**
[72] CHRISTENSEN, CHRISTINA N., US
[72] SCAVUZZO, JOSEPH J., US
[72] MILEHAM, MELISSA L., US
[71] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[22] 2022-12-12
[41] 2023-06-10
[30] US (63/288451) 2021-12-10
[30] US (18/063841) 2022-12-09

[21] **3,185,471**
[13] A1

[51] **Int.Cl. B65G 45/12 (2006.01)**
[25] EN
[54] **CONVEYOR SCRAPER SYSTEMS, METHODS AND APPARATUS**
[54] **SYSTEMES, METHODES ET APPAREILS DE GRATTAGE DE CONVOYEUR**
[72] OLSON, KENT, US
[72] SCHMIDGALL, PAUL, US
[71] SUPERIOR INDUSTRIES, INC., US
[22] 2022-12-09
[41] 2023-06-09
[30] US (63/287,882) 2021-12-09
[30] US (63/364,016) 2022-05-02

[21] **3,185,705**
[13] A1

[51] **Int.Cl. E04H 1/12 (2006.01) B65D 88/10 (2006.01) B62B 3/00 (2006.01)**
[25] EN
[54] **OUTDOOR MOBILE OFFICE POD**
[54] **NACELLE DE BUREAU MOBILE EXTERIEURE**
[72] DUBE-SEXTON, SIMON, CA
[72] SEXTON, CHARLENE, CA
[71] DUBE-SEXTON, SIMON, CA
[22] 2022-12-09
[41] 2023-06-10
[30] CA (3,141,966) 2021-12-10

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[21] **3,194,828**

[13] A1

[25] EN

[54] **HINDU-THEMED BOARD GAME**

[54] **JEU DE TABLE D'INSPIRATION
HINDOUE**

[72] THIYAGALIGNAM, KOPINNATH,
CA

[71] THIYAGALIGNAM, KOPINNATH,
CA

[22] 2023-04-01

[41] 2023-06-06

[21] **3,195,235**

[13] A1

[51] **Int.Cl. H02K 53/00 (2006.01) F03G
7/10 (2006.01) H02K 7/10 (2006.01)**

[25] FR

[54] **METHOD FOR REDUCING
POLLUTANT GASES PRODUCED
BY FUELS FROM AN ELECTRIC
POWER THERMAL GENERATING
STATION**

[54] **PROCEDE POUR REDUIRE LES
GAZ POLLUANT PRODUIT PAR
LES COMBUSTIBLES D'UNE
CENTRALE ELECTRIQUE
THERMIQUE**

[72] GAGNON, STEEVEN, CA

[71] GAGNON, STEEVEN, CA

[22] 2023-04-04

[41] 2023-06-06

[21] **3,199,061**

[13] A1

[51] **Int.Cl. A01K 1/06 (2006.01) A01K
1/062 (2006.01)**

[25] EN

[54] **HEAD GATE FOR A CATTLE
CONTAINMENT CHUTE**

[54] **PORTE CORNADIS POUR UNE
CHUTE DE CONTENTION DE
BETAIL**

[72] COMTE, ALAIN GERALD, CA

[72] DELORME, ALLAN R., CA

[72] DELAQUIS, YVAN, CA

[71] COMTE INDUSTRIES LIMITED, CA

[22] 2021-12-06

[41] 2023-06-06

[62] 3,141,087

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[21] **3,147,674**
[13] A1
[51] **Int.Cl. F21V 14/02 (2006.01) A01G 9/20 (2006.01) F21V 21/30 (2006.01) F21V 31/00 (2006.01)**
[25] EN
[54] **ROTARY DOUBLE-STRIP PLANT FILL LIGHT**
[54]
[72] DU, JINLONG, CN
[72] QIAO, KAI, CN
[72] WU, YONGBIN, CN
[72] CAI, QILONG, CN
[72] ZHANG, LICHEN, CN
[71] MEGAPHOTON INC., CN
[85] 2022-02-10
[86] 2021-12-09 (PCT/CN2021/136605)
[87] (3147674)

[21] **3,171,644**
[13] A1
[51] **Int.Cl. A01K 67/033 (2006.01) A23K 10/30 (2016.01) A23K 50/90 (2016.01)**
[25] EN
[54] **METHOD FOR PRECISE INDOOR MASS REARING OF THE RICE STRIPED STEM BORER [CHILO SUPPRESSALIS (WALKER)] ON RICE SEEDLINGS**
[54] **METHODE D'ELEVAGE DE MASSE INTERIEUR PRECIS DU PERCEUR ASIATIQUE DU RIZ [CHILO SUPPRESSALIS (WALKER)] SUR LES SEMIS DE RIZ**
[72] XU, LU, CN
[72] ZHAO, JUN, CN
[72] LIU, BAOSHENG, CN
[72] ZHAO, CHUNQING, CN
[72] XU, DEJIN, CN
[72] XU, GUANGCHUN, CN
[72] HAN, ZHAOJUN, CN
[71] JIANGSU ACADEMY OF AGRICULTURAL SCIENCES, CN
[85] 2022-08-29
[86] 2022-06-02 (PCT/CN2022/096860)
[87] (3171644)
[30] CN (202111486141.5) 2021-12-07

[21] **3,174,357**
[13] A1
[51] **Int.Cl. G06F 21/64 (2013.01) H04N 21/8352 (2011.01) G06F 21/62 (2013.01) G10L 19/018 (2013.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PROVIDING A TRACKABLE DIGITAL ASSET AND ITS USE THEREOF**
[54] **METHODE ET SYSTEME POUR FOURNIR UN BIEN NUMERIQUE POUVANT ETRE SUIVI ET UTILISATION CONNEXE**
[72] TRUDEAU, NATHAN, CA
[71] TRUDEAU, NATHAN, CA
[85] 2022-09-30
[86] 2022-08-26 (PCT/IB2022/058014)
[87] (3174357)
[30] US (63/243,157) 2021-09-12
[30] US (63/255,728) 2021-10-14
[30] US (63/278,427) 2021-11-11
[30] US (63/289,020) 2021-12-13

[21] **3,192,866**
[13] A1
[51] **Int.Cl. A61K 31/195 (2006.01) A61K 31/198 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **AMINOACIDS FOR TREATMENT OF NEUROLOGICAL DISORDERS**
[54] **ACIDES AMINES DESTINES AU TRAITEMENT DE TROUBLES NEUROLOGIQUES**
[72] MARDINOGLU, ADIL, SE
[72] BOREN, JAN, SE
[72] UHLEN, MATHIAS, SE
[71] SCANDIBIO THERAPEUTICS AB, SE
[85] 2023-03-15
[86] 2021-08-04 (PCT/EP2021/071785)
[87] (WO2022/029184)
[30] EP (PCT/EP2020/071903) 2020-08-04

[21] **3,196,416**
[13] A1
[51] **Int.Cl. A61M 1/06 (2006.01) A61M 39/24 (2006.01)**
[25] EN
[54] **BREAST PUMP AND BREAST PUMP VALVE ASSEMBLY**
[54] **TIRE-LAIT ET ENSEMBLE SOUPE DE TIRE-LAIT**
[72] HESELWOOD, GERARD, GB
[72] GOSSINGTON, MATTHEW JAMES, GB
[71] MAYBORN (UK) LIMITED, GB
[85] 2023-04-21
[86] 2021-10-26 (PCT/GB2021/052787)
[87] (WO2022/090710)
[30] GB (2016973.6) 2020-10-26

[21] **3,198,018**
[13] A1
[51] **Int.Cl. B61F 5/12 (2006.01) B61F 5/14 (2006.01) B61F 5/30 (2006.01)**
[25] EN
[54] **RAILROAD CAR TRUCK DAMPER WEDGE FITTINGS**
[54] **ACCESSOIRES CALES D'AMORTISSEMENT DE BOGIE DE WAGON DE CHEMIN DE FER**
[72] HEMATIAN, JAMAL, CA
[72] BLACK, KENNETH, CA
[71] NATIONAL STEEL CAR LIMITED, CA
[85] 2023-05-08
[86] 2020-11-18 (PCT/CA2020/051576)
[87] (WO2022/094687)
[30] US (17/092,771) 2020-11-09

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[21] **3,198,021**
[13] A1

[51] **Int.Cl. F16L 59/02 (2006.01) B32B 7/027 (2019.01) B32B 5/30 (2006.01) B32B 15/02 (2006.01) B32B 15/16 (2006.01) F41H 3/02 (2006.01)**

[25] EN

[54] **THERMALLY INSULATING SUBSTRATE PRODUCT AND METHOD OF MANUFACTURE**

[54] **PRODUIT SUBSTRAT D'ISOLATION THERMIQUE ET PROCEDE DE FABRICATION**

[72] SERVATI, PEYMAN, CA

[72] YEAP, ROU YI, CA

[72] ZABIHI, FATEMEH, CA

[72] NARAYANA, HARISHKUMAR, CA

[72] SERVATI, AMIR, CA

[72] SOLTANIAN, SAEID, CA

[72] LE, KATHERINE HOANG KIEU-LINH, CA

[72] ARKAZ, HAMDY HARUN, CA

[72] JIANG, ZENAN, CA

[71] TEXAVIE TECHNOLOGIES INC., CA

[85] 2023-05-08

[86] 2021-12-17 (PCT/CA2021/051834)

[87] (WO2022/126279)

[30] US (63/199,326) 2020-12-18

[21] **3,198,026**
[13] A1

[51] **Int.Cl. H01M 4/36 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/587 (2010.01) H01M 10/0525 (2010.01) H01M 10/058 (2010.01) H01M 4/48 (2010.01) H01M 4/58 (2010.01) H01M 10/42 (2006.01)**

[25] EN

[54] **LITHIUM-ION BATTERY**

[54] **BATTERIE AU LITHIUM-ION**

[72] CHEN, NA, CN

[72] HAO, RONG, CN

[72] PAN, YI, CN

[71] BYD COMPANY LIMITED, CN

[85] 2023-05-08

[86] 2021-11-10 (PCT/CN2021/129866)

[87] (WO2022/100626)

[30] CN (202011253796.3) 2020-11-11

[21] **3,198,035**
[13] A1

[51] **Int.Cl. A61B 34/30 (2016.01) A61B 34/37 (2016.01)**

[25] EN

[54] **ADAPTIVE ROBOT-ASSISTED SYSTEM AND METHOD FOR EVALUATING THE POSITION OF THE TROCAR IN A ROBOT-ASSISTED LAPAROSCOPIC SURGERY INTERVENTION**

[54] **SYSTEME ASSISTE PAR ROBOT ADAPTATIF ET PROCEDE D'EVALUATION DE LA POSITION DU TROCART DANS UNE INTERVENTION CHIRURGICALE LAPAROSCOPIQUE ASSISTEE PAR ROBOT**

[72] AMAT GIRBAU, JOSEP, ES

[71] ROB SURGICAL SYSTEMS, SL, ES

[85] 2023-05-08

[86] 2021-11-09 (PCT/EP2021/081052)

[87] (WO2022/101175)

[30] EP (20382967.6) 2020-11-10

[21] **3,198,073**
[13] A1

[51] **Int.Cl. B01L 7/00 (2006.01) G01N 35/00 (2006.01)**

[25] EN

[54] **BIOLOGICAL INDICATOR READER SYSTEM**

[54] **SYSTEME DE LECTURE D'INDICATEUR BIOLOGIQUE**

[72] CHILDS, JACOB, US

[72] EGHBAL, DARIUS D., US

[71] ADVANCED STERILIZATION PRODUCTS, INC., US

[85] 2023-05-09

[86] 2021-11-15 (PCT/IB2021/060559)

[87] (WO2022/106980)

[30] US (63/114,631) 2020-11-17

[21] **3,198,088**
[13] A1

[51] **Int.Cl. A23C 3/02 (2006.01)**

[25] EN

[54] **CONTINUOUS LACTOSE HYDROLYSIS IN MILK AND OTHER DAIRY PRODUCTS**

[54] **HYDROLYSE CONTINUE DU LACTOSE DANS DU LAIT ET D'AUTRES PRODUITS LAITIERS**

[72] DRAPALA, KAMIL PIOTR, US

[72] UR REHMAN, SHAKEEL, US

[72] DOELMAN, TIMOTHY PETER, US

[71] FAIRLIFE, LLC, US

[85] 2023-05-09

[86] 2021-11-08 (PCT/US2021/058420)

[87] (WO2022/103690)

[30] US (63/112,688) 2020-11-12

[21] **3,198,093**
[13] A1

[51] **Int.Cl. B31B 70/81 (2017.01) A45C 3/04 (2006.01)**

[25] EN

[54] **EASY TO OPEN BAG AND A METHOD FOR MAKING THE SAME**

[54] **SAC FACILE A OUVRIR ET PROCEDE DE FABRICATION DE CELUI-CI**

[72] WILFONG, HARRY, US

[71] NOVOLEX HOLDINGS, LLC, US

[85] 2023-05-09

[86] 2021-11-09 (PCT/US2021/058542)

[87] (WO2022/099170)

[30] US (63/111,268) 2020-11-09

[30] US (17/521,241) 2021-11-08

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| <p style="text-align: center;">[21] 3,198,096 [13] A1</p> <p>[51] Int.Cl. C07D 307/84 (2006.01) A61K 31/443 (2006.01) A61K 31/4525 (2006.01) A61K 31/497 (2006.01) A61K 31/5377 (2006.01) A61K 31/5386 (2006.01) A61P 25/04 (2006.01) C07D 401/14 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 407/12 (2006.01) C07D 409/12 (2006.01) C07D 413/12 (2006.01) C07D 471/08 (2006.01) C07D 487/04 (2006.01) C07D 487/08 (2006.01) C07D 498/08 (2006.01)</p> <p>[25] EN</p> <p>[54] ARYL DERIVATIVES FOR TREATING TRPM3 MEDIATED DISORDERS</p> <p>[54] DERIVES D'ARYLE POUR LE TRAITEMENT DE TROUBLES A MEDIATION PAR TRPM3</p> <p>[72] ALLASIA, SARA, BE</p> <p>[72] ARZEL, PHILIPPE, BE</p> <p>[72] CHALTIN, PATRICK, BE</p> <p>[72] KILONDA, AMURI, BE</p> <p>[72] MARCHAND, ARNAUD, BE</p> <p>[72] VANHERCK, JEAN-CHRISTOPHE, BE</p> <p>[72] VOETS, THOMAS, BE</p> <p>[72] VRIENS, JORIS, BE</p> <p>[72] REICH, MELANIE, DE</p> <p>[72] WELBERS, ANDRE, DE</p> <p>[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE</p> <p>[85] 2023-05-09</p> <p>[86] 2021-11-24 (PCT/EP2021/082853)</p> <p>[87] (WO2022/112345)</p> <p>[30] EP (20209570.9) 2020-11-24</p> | <p style="text-align: center;">[21] 3,198,099 [13] A1</p> <p>[51] Int.Cl. A61K 8/20 (2006.01) A61K 8/21 (2006.01) A61K 8/81 (2006.01)</p> <p>[25] EN</p> <p>[54] A FLUORIDE DENTIFRICE CONTAINING AN IODINE COMPONENT</p> <p>[54] DENTIFRICE FLUORE CONTENANT UN COMPOSANT IODE</p> <p>[72] MILGROM, PETER M., US</p> <p>[71] ADVANTAGE SILVER DENTAL ARREST, LLC, US</p> <p>[71] ELEVATE ORAL CARE, LLC, US</p> <p>[85] 2023-05-09</p> <p>[86] 2021-11-11 (PCT/US2021/058962)</p> <p>[87] (WO2022/103948)</p> <p>[30] US (63/114,474) 2020-11-16</p> | <p style="text-align: center;">[21] 3,198,103 [13] A1</p> <p>[51] Int.Cl. A42B 3/06 (2006.01) A42B 3/12 (2006.01)</p> <p>[25] EN</p> <p>[54] A HELMET COMPRISING AN IMPACT MITIGATING STRUCTURE</p> <p>[54] CASQUE COMPRENANT UNE STRUCTURE ATTENUANT LES CHOCES</p> <p>[72] COOK, JAMES, GB</p> <p>[72] NEILSON, HENRY, GB</p> <p>[72] LEVY, ADAM, GB</p> <p>[71] HEXR LTD, GB</p> <p>[85] 2023-05-09</p> <p>[86] 2021-11-19 (PCT/EP2021/082364)</p> <p>[87] (WO2022/106651)</p> |
| <p style="text-align: center;">[21] 3,198,098 [13] A1</p> <p>[51] Int.Cl. A01G 25/16 (2006.01) H04W 4/38 (2018.01) H04L 12/40 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEM AND METHOD FOR MANAGING DATA OF AN IRRIGATION SYSTEM</p> <p>[54] SYSTEME ET PROCEDE DE GESTION DE DONNEES DANS UN SYSTEME D'IRRIGATION</p> <p>[72] CHARLING, KURTIS ARLAN, US</p> <p>[71] LINDSAY CORPORATION, US</p> <p>[85] 2023-05-09</p> <p>[86] 2021-11-09 (PCT/US2021/058533)</p> <p>[87] (WO2022/103714)</p> <p>[30] US (17/097,358) 2020-11-13</p> | <p style="text-align: center;">[21] 3,198,101 [13] A1</p> <p>[51] Int.Cl. B65G 15/30 (2006.01) B65G 15/32 (2006.01) B65G 23/14 (2006.01)</p> <p>[25] EN</p> <p>[54] NON-STICK BELT WITH IMPROVED ADHESION, PUNCTURE, CONFORMABILITY AND FLEX PROPERTIES</p> <p>[54] COURROIE ANTIADHESIVE PRESENTANT DES PROPRIETES AMELIOREES D'ADHERENCE, DE PERFORATION, DE CONFORMABILITE ET DE FLEXION</p> <p>[72] LEWIS, WILLIAM CHRISTOPHER, US</p> <p>[72] LEWIS, BARTON R., US</p> <p>[72] SWIFT, MALCOLM, US</p> <p>[72] LEWIS, WILLIAM JAMES, US</p> <p>[72] SALOMON, ISMAEL, US</p> <p>[71] AFC SPECIALTY COATINGS GROUP, INC., US</p> <p>[85] 2023-05-09</p> <p>[86] 2021-12-03 (PCT/US2021/061825)</p> <p>[87] (WO2022/120180)</p> <p>[30] US (63/121,092) 2020-12-03</p> | <p style="text-align: center;">[21] 3,198,105 [13] A1</p> <p>[51] Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/79 (2006.01)</p> <p>[25] EN</p> <p>[54] MULTIPLEX EPIGENOME EDITING</p> <p>[54] EDITION D'EPIGENOME MULTIPLEX</p> <p>[72] LIU, X. SHAWN, US</p> <p>[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US</p> <p>[85] 2023-05-09</p> <p>[86] 2021-11-11 (PCT/US2021/058938)</p> <p>[87] (WO2022/103935)</p> <p>[30] US (63/112,331) 2020-11-11</p> <p>[30] US (63/174,297) 2021-04-13</p> |

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[21] **3,198,107**
[13] A1

[51] **Int.Cl. A61K 38/39 (2006.01) A61K 47/62 (2017.01) C07K 14/78 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **NPC1 MONOBODIES AND MONOBODY CONJUGATES THEREOF**

[54] **MONOCORPS DE NPC1 ET CONJUGUES DE MONOCORPS DE CEUX-CI**

[72] RAMIREZ, CRAIG, US
[72] HAUSER, ANDREW, US
[72] BAR-SAGI, DAFNA, US
[72] KOIDE, AKIKO, US
[72] KOIDE, SHOHEI, US
[71] NEW YORK UNIVERSITY, US
[85] 2023-05-09
[86] 2021-11-10 (PCT/US2021/058783)
[87] (WO2022/103840)
[30] US (63/112,031) 2020-11-10

[21] **3,198,110**
[13] A1

[51] **Int.Cl. B65C 9/36 (2006.01)**

[25] EN

[54] **LABELLING DEVICE**

[54] **DISPOSITIF D'ETIQUETAGE**

[72] WIEGEL, MARIO, DE
[72] VINOKUROV, ARTEM, DE
[72] ZERFAB, THORSTEN, DE
[71] ESPERA-WERKE GMBH, DE
[85] 2023-05-09
[86] 2021-10-14 (PCT/EP2021/078464)
[87] (WO2022/100953)
[30] DE (10 2020 130 225.8) 2020-11-16

[21] **3,198,111**
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 39/08 (2006.01)**

[25] EN

[54] **INTRAVENOUS TUBE UNTANGLING DEVICE**

[54] **DISPOSITIF DE DEMELAGE DE TUBE INTRAVEINEUX**

[72] LAU, CHOI TING, US
[71] CAREFUSION 303, INC., US
[85] 2023-05-09
[86] 2021-11-15 (PCT/US2021/059402)
[87] (WO2022/115266)
[30] US (17/103,476) 2020-11-24

[21] **3,198,112**
[13] A1

[51] **Int.Cl. A63B 22/02 (2006.01)**

[25] EN

[54] **SUPINE STEPPER**

[54] **SIMULATEUR-ERGOMETRE D'ESCALIER EN POSITION COUCHEE SUR LE DOS**

[72] SYRKIN, GRIGORY, US
[72] HELLMAN, SAMUEL, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2023-05-09
[86] 2021-11-12 (PCT/US2021/059189)
[87] (WO2022/104095)
[30] US (63/113,436) 2020-11-13

[21] **3,198,113**
[13] A1

[51] **Int.Cl. D21J 1/20 (2006.01)**

[25] EN

[54] **INSULATION MATERIAL, INSULATION PRODUCT, LAYER STRUCTURE, CONSTRUCTION AND METHOD OF MANUFACTURING INSULATION MATERIAL**

[54] **MATERIAU D'ISOLATION, PRODUIT D'ISOLATION, STRUCTURE DE COUCHE, CONSTRUCTION ET PROCEDE DE FABRICATION DE MATERIAU D'ISOLATION**

[72] PITKALA, JUKKA, FI
[72] PITKALA, JYRI, FI
[71] FIBERWOOD OY, FI
[85] 2023-05-09
[86] 2021-11-09 (PCT/FI2021/050759)
[87] (WO2022/101550)
[30] FI (20206133) 2020-11-10

[21] **3,198,114**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 35/00 (2006.01) C07K 14/195 (2006.01) C07K 14/255 (2006.01) C12N 15/74 (2006.01)**

[25] EN

[54] **SALMONELLA STRAIN FOR PREVENTION AND TREATMENT OF CANCER AND USE THEREOF**

[54] **SOUCHE DE SALMONELLA POUR LA PREVENTION ET LE TRAITEMENT DU CANCER ET SON UTILISATION**

[72] MIN, JUNG-JOON, KR
[72] HONG, YEONGJIN, KR
[72] YOU, SUNG-HWAN, KR
[72] HUY, NGUYEN DINH, KR
[71] INDUSTRY FOUNDATION OF CHONNAM NATIONAL UNIVERSITY, KR
[85] 2023-05-09
[86] 2021-11-09 (PCT/KR2021/016267)
[87] (WO2022/098213)
[30] KR (10-2020-0148824) 2020-11-09

[21] **3,198,115**
[13] A1

[51] **Int.Cl. C22B 3/42 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **PROCESS FOR RECOVERING AND PURIFYING LITHIUM**

[54] **PROCEDE DE RECUPERATION ET DE PURIFICATION DE LITHIUM**

[72] KIVELA, PAULA, FI
[72] EKMAN, PEIK, FI
[72] KAUPPINEN, PASI, FI
[72] EKMAN, KENNETH, FI
[72] YRJANA, VILLE, FI
[71] FORTUM OYJ, FI
[85] 2023-05-09
[86] 2021-11-09 (PCT/FI2021/050758)
[87] (WO2022/101549)
[30] EP (20206690.8) 2020-11-10

Demandes PCT entrant en phase nationale

[21] **3,198,117**
[13] A1

[51] **Int.Cl. B61D 3/20 (2006.01)**
[25] EN
[54] **ARTICULATED VEHICLE
ARRANGEMENT FOR A RAIL
FREIGHT TRAIN**
[54] **AGENCEMENT DE VEHICULE
ARTICULE POUR UN TRAIN DE
MARCHANDISES FERROVIAIRE**
[72] WEGMULLER, BEAT, CH
[71] SWS PS POWER SOLUTIONS
GMBH, AT
[85] 2023-05-09
[86] 2021-06-14 (PCT/EP2021/065929)
[87] (WO2022/100896)
[30] EP (20206753.4) 2020-11-10

[21] **3,198,118**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P
31/12 (2006.01) A61P 31/14 (2006.01)
C07K 14/005 (2006.01) C07K 14/165
(2006.01)**
[25] EN
[54] **RECOMBINANT VECTORS
ENCODING CHIMERIC
CORONAVIRUS SPIKE PROTEINS
AND USE THEREOF**
[54] **VECTEURS RECOMBINANTS
CODANT POUR DES PROTEINES
DE SPICULE DE CORONAVIRUS
CHIMERES ET LEUR
UTILISATION**
[72] LANGEREIS, MARTIJN
ALEXANDER, NL
[72] DE GROOF, AD, NL
[72] VERMEIJ, PAUL, NL
[72] BOSCH, BEREND JAN, NL
[71] INTERVET INTERNATIONAL B.V.,
NL
[85] 2023-05-09
[86] 2021-11-11 (PCT/EP2021/081311)
[87] (WO2022/101307)
[30] EP (20207302.9) 2020-11-12
[30] EP (21166533.6) 2021-04-01

[21] **3,198,123**
[13] A1

[51] **Int.Cl. C09K 11/77 (2006.01) H01L
33/50 (2010.01)**
[25] EN
[54] **BLUE-EMITTING PHOSPHORS
AND METHODS OF USE
THEREOF**
[54] **PHOSPHORES EMETTANT DE LA
LUMIERE BLEUE ET LEURS
PROCEDES D'UTILISATION**
[72] BRGOCH, JAKOAH, US
[72] HARIYANI, SHRUTI, US
[71] UNIVERSITY OF HOUSTON
SYSTEM, US
[85] 2023-05-09
[86] 2021-11-19 (PCT/US2021/060016)
[87] (WO2022/109222)
[30] US (63/116,017) 2020-11-19

[21] **3,198,125**
[13] A1

[51] **Int.Cl. G01N 3/12 (2006.01)**
[25] EN
[54] **A PIPE TESTING APPARATUS
AND METHOD**
[54] **APPAREIL ET PROCEDE DE TEST
DE TUYAUX**
[72] ROBERTS, PETER, GB
[72] STUART, RICHARD, GB
[72] KETTLE, ROBERT, GB
[71] VERDERG PIPE TECHNOLOGY
LIMITED, GB
[85] 2023-05-09
[86] 2021-10-22 (PCT/GB2021/052744)
[87] (WO2022/101605)
[30] GB (2017701.0) 2020-11-10

[21] **3,198,127**
[13] A1

[51] **Int.Cl. C12C 3/00 (2006.01) C12C
11/11 (2019.01) C12C 12/00 (2006.01)
C12H 1/00 (2006.01)**
[25] EN
[54] **METHODS FOR STERILIZING
FERMENTED BEVERAGES**
[54] **PROCEDES DE STERILISATION
DE BOISSONS FERMENTEES**
[72] THOMPSON, TRACY L., CA
[72] VIEIRA, ANTHONY C., US
[72] PTASZNIK, MICHAEL G., US
[71] MARK ANTHONY
INTERNATIONAL SRL, BB
[85] 2023-05-09
[86] 2021-11-12 (PCT/IB2021/000817)
[87] (WO2022/101680)
[30] US (63/113,873) 2020-11-14
[30] US (63/196,730) 2021-06-04

[21] **3,198,128**
[13] A1

[51] **Int.Cl. G06N 20/20 (2019.01) G06Q
10/06 (2023.01) G06N 20/10 (2019.01)
G06N 3/04 (2023.01) G06N 3/08
(2023.01)**
[25] EN
[54] **EXPLAINABLE MACHINE-
LEARNING MODELING USING
WAVELET PREDICTOR
VARIABLE DATA**
[54] **MODELISATION EXPLICABLE
SUR LA BASE DE
L'APPRENTISSAGE
AUTOMATIQUE A L'AIDE DE
DONNEES VARIABLES DE
PREDICTEUR A BASE
D'ONDELETTES**
[72] DUGGER, JEFFERY, US
[72] WOODFORD, TERRY, US
[72] HAMILTON, HOWARD, US
[72] MCBURNETT, MICHAEL, US
[72] MILLER, STEPHEN, US
[71] EQUIFAX INC., US
[85] 2023-05-09
[86] 2021-11-11 (PCT/US2021/072359)
[87] (WO2022/104357)
[30] US (63/113,174) 2020-11-12

[21] **3,198,129**
[13] A1

[51] **Int.Cl. B65D 83/20 (2006.01)**
[25] EN
[54] **SPRAY DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION PAR
PULVERISATION**
[72] FORE, JOHN B., US
[71] PRECISION VALVE
CORPORATION, US
[85] 2023-05-09
[86] 2021-11-12 (PCT/US2021/059177)
[87] (WO2022/104086)
[30] US (63/112,748) 2020-11-12

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[21] **3,198,131**
[13] A1

[51] **Int.Cl. E05B 15/00 (2006.01) E05B 63/00 (2006.01)**
[25] EN
[54] **LOCKING DEVICE WITH A CATCH ARRANGEMENT**
[54] **DISPOSITIF DE VERROUILLAGE DOTE D'UN AGENCEMENT D'ENCLIQUETAGE**
[72] JENSEN, LARS, SE
[71] STENDALS EL AB, SE
[85] 2023-05-09
[86] 2021-11-09 (PCT/SE2021/051120)
[87] (WO2022/103316)
[30] SE (2051323-0) 2020-11-12

[21] **3,198,141**
[13] A1

[51] **Int.Cl. B65D 71/42 (2006.01)**
[25] EN
[54] **HOLDING DEVICE FOR CONTAINERS, MORE PARTICULARLY CANS, BLANK FOR SAME AND MULTIPACK HAVING SAME**
[54] **DISPOSITIF DE RETENUE POUR RECIPIENTS, EN PARTICULIER BOITES-BOISSON, DECOUPE APPROPRIEE ET EMBALLAGE GROUPE DOTE DUDIT DISPOSITIF DE RETENUE**
[72] WERNER, PETER, DE
[71] KRONES AG, DE
[85] 2023-05-09
[86] 2021-11-18 (PCT/EP2021/082163)
[87] (WO2022/112092)
[30] DE (10 2020 214 724.8) 2020-11-24

[21] **3,198,142**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/352 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **ORAL CANNABINOID PHARMACEUTICAL COMPOSITIONS AND METHODS OF TREATING SLEEP DISORDERS**
[54] **COMPOSITIONS PHARMACEUTIQUES ORALES DE CANNABINOIDES ET METHODES DE TRAITEMENT DE TROUBLES DU SOMMEIL**
[72] RUDNIC, EDWARD M., US
[72] BRONFEIN, MICHAEL, US
[71] CURIO IP, LLC, US
[85] 2023-05-09
[86] 2022-01-27 (PCT/US2022/014063)
[87] (WO2022/165009)
[30] US (63/143,320) 2021-01-29

[21] **3,198,143**
[13] A1

[51] **Int.Cl. C07K 7/56 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **NEW CYCLIC COMPOUNDS, PROCESS FOR THE PRODUCTION THEREOF, AND USE OF SAID CYCLIC COMPOUNDS IN COSMETIC PREPARATIONS**
[54] **NOUVEAUX COMPOSES CYCLIQUES, LEUR PROCEDE DE PRODUCTION ET LEUR UTILISATION DANS DES PREPARATIONS COSMETIQUES**
[72] WIRTZ, SEBASTIAN N., DE
[72] GROND, STEPHANIE, DE
[72] SAUR, JULIAN S., DE
[72] KRISMER, BERNHARD, DE
[72] HEUER, ANDREA, DE
[72] HUEPEDEN, JENNIFER, DE
[71] EBERHARD KARLS UNIVERSITAT TUBINGEN, DE
[85] 2023-05-09
[86] 2021-11-20 (PCT/EP2021/082388)
[87] (WO2022/106667)
[30] EP (20208947.0) 2020-11-20

[21] **3,198,144**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/32 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **MULTILAYER MONO-MATERIAL POLYETHYLENE (PE) ASSEMBLY AND ITS USE IN FOOD PACKAGING**
[54] **ENSEMBLE EN POLYETHYLENE (PE) MONO-MATERIAU MULTICOUCHE ET SON UTILISATION DANS L'EMBALLAGE ALIMENTAIRE**
[72] D'ALTERIO, GENNARO, IT
[72] D'URSO, EDOARDO, IT
[71] DI MAURO OFFICINE GRAFICHE S.P.A., IT
[85] 2023-05-09
[86] 2021-11-10 (PCT/EP2021/081299)
[87] (WO2022/101300)
[30] EP (20206820.1) 2020-11-10

[21] **3,198,145**
[13] A1

[51] **Int.Cl. E21B 33/08 (2006.01) E21B 33/06 (2006.01)**
[25] EN
[54] **ROTATING CONTROL DEVICE**
[54] **DISPOSITIF DE COMMANDE ROTATIF**
[72] SHPAK, VITALIY, CA
[72] KHORSHIDIAN, HOSSEIN, CA
[71] OPLA ENERGY LTD. LTD., CA
[85] 2023-05-09
[86] 2021-11-17 (PCT/CA2021/051627)
[87] (WO2022/104461)
[30] US (63/115,720) 2020-11-19

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[21] **3,198,146**
[13] A1

[51] **Int.Cl. A01N 37/18 (2006.01) C12N 5/071 (2010.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **METHODS FOR INHIBITING CHMP7 EXPRESSION IN NEURONAL CELLS FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS**

[54] **PROCEDES D'INHIBITION DE L'EXPRESSION DE CHMP7 DANS DES CELLULES NEURONALES POUR LE TRAITEMENT DE TROUBLES NEURODEGENERATIFS**

[72] ROTHSTEIN, JEFFREY D., US

[72] COYNE, ALYSSA, US

[71] THE JOHNS HOPKINS UNIVERSITY, US

[85] 2023-05-09

[86] 2021-11-10 (PCT/US2021/058780)

[87] (WO2022/103838)

[30] US (63/111,882) 2020-11-10

[21] **3,198,168**
[13] A1

[51] **Int.Cl. A23K 10/18 (2016.01) A61K 35/741 (2015.01) A61K 35/742 (2015.01) A61K 35/745 (2015.01) A23K 20/163 (2016.01) A23K 50/30 (2016.01) A23K 50/60 (2016.01) A23L 33/135 (2016.01) A23L 33/21 (2016.01)**

[25] FR

[54] **SYMBIOTIC COMPOSITION AS FEED ADDITIVE FOR PIGLETS OR SOWS AND THE USE THEREOF**

[54] **COMPOSITION SYMBIOTIQUE COMME ADDITIF D'ALIMENTATION POUR LES PORCELETS OU LES TRUIES ET SON UTILISATION**

[72] AREVALO SUREDA, ESTER, BE

[72] DELCENSERIE, VERONIQUE, BE

[72] EVERAERT, NADIA, BE

[72] LIENART VAN LIDTH DE JEUDE, JEHAN, LU

[72] MARTINEZ, ELISA, BE

[72] SABRI, AHMED, BE

[72] THONART, PHILIPPE, BE

[71] ARTECHNO, BE

[71] AVEVE BIOCHEM, BE

[71] DUMOULIN, BE

[71] UNIVERSITE DE LIEGE, BE

[71] VESALE PHARMACEUTICA, BE

[85] 2023-05-09

[86] 2021-11-16 (PCT/EP2021/081889)

[87] (WO2022/101511)

[30] BE (2020/5828) 2020-11-16

[21] **3,198,169**
[13] A1

[51] **Int.Cl. G01S 15/89 (2006.01)**

[25] EN

[54] **PASSIVE ACOUSTIC MAPPING USING COMPRESSIVE SENSING**

[54] **CARTOGRAPHIE ACOUSTIQUE PASSIVE UTILISANT UNE ACQUISITION COMPRIMEE**

[72] COVIELLO, CHRISTIAN M., GB

[72] CRAKE, CALUM J., GB

[72] KOZICK, RICHARD J., US

[71] OXSONICS LIMITED, GB

[85] 2023-05-09

[86] 2021-11-16 (PCT/GB2021/052957)

[87] (WO2022/101645)

[30] GB (2017979.2) 2020-11-16

[21] **3,198,171**
[13] A1

[51] **Int.Cl. E21D 23/16 (2006.01) E02F 3/43 (2006.01) E21D 23/26 (2006.01)**

[25] EN

[54] **MINING MACHINE AND METHOD FOR CONTROLLING MOVEMENT OF A MOVABLE ELEMENT OF A MINING MACHINE**

[54] **MACHINE D'EXPLOITATION MINIERE ET PROCEDE DE COMMANDE DE MOUVEMENT D'UN ELEMENT MOBILE D'UNE MACHINE D'EXPLOITATION MINIERE**

[72] OFFENBACHER, MICHAEL, AT

[72] POGATSCHNIGG, REINHOLD, AT

[72] GIMPEL, MARTIN, AT

[71] SANDVIK MINING AND CONSTRUCTION G.M.B.H., AT

[85] 2023-05-09

[86] 2022-01-28 (PCT/EP2022/051977)

[87] (WO2022/162108)

[30] EP (21154175.0) 2021-01-29

[21] **3,198,173**
[13] A1

[51] **Int.Cl. A61K 31/336 (2006.01) A61K 31/519 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATIONS OF METAP2 INHIBITORS AND CDK4/6 INHIBITORS FOR THE TREATMENT OF CANCER**

[54] **ASSOCIATIONS D'INHIBITEURS DE METAP2 ET D'INHIBITEURS DE CDK4/6 POUR LE TRAITEMENT DU CANCER**

[72] CORNELIUS, PETER, US

[72] SHANAHAN, JAMES, US

[72] CARVER, BRADLEY J., US

[71] SYNDEVVRX, INC., US

[85] 2023-05-09

[86] 2021-11-10 (PCT/US2021/058775)

[87] (WO2022/103834)

[30] US (63/112,217) 2020-11-11

[30] US (63/166,060) 2021-03-25

PCT Applications Entering the National Phase

[21] **3,198,174**
[13] A1

[51] **Int.Cl. E05B 65/52 (2006.01) G07C 9/25 (2020.01) G07C 9/37 (2020.01) G07C 9/00 (2020.01) E05B 35/10 (2006.01)**

[25] EN

[54] **ELECTRONIC LOCK**

[54] **VERROU ELECTRONIQUE**

[72] BLOOM, RACHEL, US

[72] BLOOM, JULIE, US

[72] OWIDE, SAUL, US

[71] LOCKUS, LLC, US

[85] 2023-05-09

[86] 2020-11-12 (PCT/US2020/060080)

[87] (WO2022/103390)

[21] **3,198,175**
[13] A1

[25] EN

[54] **EXTENDING BATTERY LIFE AFTER LONG-TERM AND HIGH-TEMPERATURE STORAGE**

[54] **PROLONGATION DE LA DUREE DE VIE D'UNE BATTERIE APRES UN ENTREPOSAGE A LONG TERME ET A HAUTE TEMPERATURE**

[72] LIM, JAMES ROBERT, US

[72] YE, CHANG HONG, US

[72] WANG, DAVID, US

[72] LI, YUANDAN, US

[71] GOOGLE LLC, US

[85] 2023-05-09

[86] 2022-10-26 (PCT/US2022/078689)

[87] (3198175)

[30] US (63/265,020) 2021-12-06

[21] **3,198,176**
[13] A1

[51] **Int.Cl. E05D 15/58 (2006.01) E05D 15/08 (2006.01) E06B 3/50 (2006.01) E06B 3/92 (2006.01)**

[25] EN

[54] **BYPASS DOOR ASSEMBLY**

[54] **ENSEMBLE PORTE DE DERIVATION**

[72] KENYON, GREGORY JAMES, US

[71] MARKETING DISPLAYS, INC., US

[85] 2023-05-09

[86] 2021-11-18 (PCT/US2021/059891)

[87] (WO2022/109136)

[30] US (63/115,385) 2020-11-18

[30] US (17/528,890) 2021-11-17

[21] **3,198,178**
[13] A1

[51] **Int.Cl. F24H 15/132 (2022.01) F24H 15/174 (2022.01) F24H 15/223 (2022.01) F24H 15/25 (2022.01) F24H 15/37 (2022.01) F24H 15/407 (2022.01)**

[25] EN

[54] **WATER HEATER AND**

ELECTRONIC SWITCH SYSTEM THEREFORE

[54] **SYSTEME DE COMMUTATION**

ELECTRONIQUE POUR

CHAUFFE-EAU

[72] HILL, BRUCE, US

[72] ADAMS, JOHN T., US

[72] SEYED AHMADI, MEHRAN, US

[71] BRADFORD WHITE

CORPORATION, US

[85] 2023-05-09

[86] 2021-11-12 (PCT/US2021/059202)

[87] (WO2022/104107)

[30] US (63/113,500) 2020-11-13

[21] **3,198,179**
[13] A1

[51] **Int.Cl. C10G 7/00 (2006.01) C10G 45/02 (2006.01) C10G 75/04 (2006.01)**

[25] EN

[54] **PREVENTING FOULING OF CRUDE OIL EQUIPMENT**

[54] **PREVENTION DE**

L'ENCRASEMMENT D'UN

EQUIPEMENT DE PETROLE

BRUT

[72] FRERMAN, CHARLES A., US

[71] CONOCOPHILLIPS COMPANY, US

[85] 2023-05-09

[86] 2021-12-10 (PCT/US2021/062873)

[87] (WO2022/132590)

[30] US (63/125,784) 2020-12-15

[21] **3,198,180**
[13] A1

[51] **Int.Cl. C25B 1/50 (2021.01) C25B 9/17 (2021.01) C25B 9/60 (2021.01) C25B 11/031 (2021.01) C25B 1/34 (2006.01)**

[25] EN

[54] **MEMBRANELESS**

ELECTROLYZERS FOR THE

PRODUCTION OF ALKALINE

AND ACIDIC EFFLUENT

STREAMS

[54] **ELECTROLYSEURS SANS**

MEMBRANE POUR LA

PRODUCTION DE COURANTS

D'EFFLUENT ALCALIN ET ACIDE

[72] VAN HINSBERG, QUINTEN, BE

[72] ESPOSITO, DANIEL, US

[71] THE TRUSTEES OF COLUMBIA

UNIVERSITY IN THE CITY OF NEW

YORK, US

[85] 2023-05-09

[86] 2021-11-16 (PCT/US2021/059470)

[87] (WO2022/104242)

[30] US (63/114,234) 2020-11-16

[30] US (63/279,338) 2021-11-15

[21] **3,198,182**
[13] A1

[51] **Int.Cl. A47G 9/10 (2006.01)**

[25] EN

[54] **PORTABLE HEAD AND NECK**

SUPPORT PILLOW

[54] **OREILLER PORTATIF DE**

SOUTIEN POUR LA TETE ET LE

COU

[72] MANI, MARC, US

[71] MANI, MARC, US

[85] 2023-05-09

[86] 2021-11-19 (PCT/US2021/060216)

[87] (WO2022/109350)

[30] US (17/100,296) 2020-11-20

[30] US (17/352,289) 2021-06-19

[30] US (63/274,321) 2021-11-01

Demandes PCT entrant en phase nationale

[21] **3,198,184**
[13] A1

[51] **Int.Cl. G06F 16/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR LEGAL RESEARCH NAVIGATION**
[54] **SYSTEMES ET PROCEDES DE NAVIGATION DE RECHERCHE LEGALE**
[72] KITAEV, ERICA GANN, US
[72] PATERSON, DAVID THOMAS, GB
[72] CLARK, MICHAEL ENG POH, GB
[72] SRAMEK, MEGAN ANNE, US
[72] ALES, DEACON, US
[72] COLBERT, EMILY, US
[71] THOMPSON REUTERS GLOBAL ENTERPRISE CENTRE GMBH, CH
[85] 2023-05-09
[86] 2021-11-17 (PCT/US2021/059608)
[87] (WO2022/108960)
[30] US (63/114,795) 2020-11-17

[21] **3,198,185**
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) H04L 1/18 (2023.01) G06F 21/57 (2013.01)**
[25] EN
[54] **SECURE ELEMENT ARRAYS IN INTERNET-OF-THINGS SYSTEMS**
[54] **RESEAUX D'ELEMENTS SECURISES DANS DES SYSTEMES DE L'INTERNET DES OBJETS**
[72] SACHDEVA, KAPIL, US
[72] PREVOST, SYLVAIN JACQUES, US
[72] MUKHA, MATVEY, AT
[71] ASSA ABLOY AB, SE
[85] 2023-05-09
[86] 2021-11-12 (PCT/EP2021/081512)
[87] (WO2022/101405)
[30] US (63/113,423) 2020-11-13

[21] **3,198,186**
[13] A1

[51] **Int.Cl. B65D 1/02 (2006.01) B65D 23/10 (2006.01)**
[25] EN
[54] **SWIRL BELL BOTTLE WITH WAVY RIBS**
[54] **BOUTEILLE A CLOCHE DE TURBULENCE COMPORTANT DES NERVURES ONDULEES**
[72] HANAN, JAY CLARKE, US
[72] HOSSAIN, NASER, US
[72] TAKADDUS, AHMED TASNUB, US
[72] SAFIULLAH, MOHAMMAD ADOM, US
[71] NIAGARA BOTTLING, LLC, US
[85] 2023-05-09
[86] 2021-11-11 (PCT/US2021/059028)
[87] (WO2022/103992)
[30] US (17/095,130) 2020-11-11

[21] **3,198,187**
[13] A1

[51] **Int.Cl. G06Q 30/08 (2012.01) G06Q 10/08 (2023.01) G06Q 30/02 (2023.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR DYNAMICALLY AUTOMATING REVERSE AUCTIONS**
[54] **SYSTEME ET PROCEDES D'AUTOMATISATION DYNAMIQUE D'ENCHERES INVERSEES**
[72] KAZAL, KARL, AU
[72] KAZAL, ABRAHAM, AU
[72] KAPLANSKI, PAWEL, AU
[71] QMO IP PTY LTD., AU
[85] 2023-05-09
[86] 2021-11-09 (PCT/IB2021/060375)
[87] (WO2022/097123)
[30] US (63/111,113) 2020-11-09

[21] **3,198,190**
[13] A1

[51] **Int.Cl. A61K 38/45 (2006.01)**
[25] EN
[54] **USE OF SODIUM TRANS-[TETRACHLORIDOBIS(1H-INDAZOLE)RUTHENATE(III)] FOR TREATING CANCERS**
[54] **UTILISATION DE TRANS-[TETRACHLORIDOBIS(1H-INDAZOLE)RUTHENATE (III)] DE SODIUM POUR LE TRAITEMENT DE CANCERS**
[72] BAZETT, MARK, CA
[72] CARIE, ADAM, CA
[72] PANKOVICH, JAMES, CA
[72] CARSON, ROBBIE, GB
[72] VAN SCHAEYBROECK, SANDRA, GB
[72] RAHA, PAROMITA, CA
[71] BOLD THERAPEUTICS INC., CA
[85] 2023-05-09
[86] 2021-11-18 (PCT/CA2021/051639)
[87] (WO2022/104470)
[30] US (63/115,587) 2020-11-18
[30] US (63/165,641) 2021-03-24

[21] **3,198,191**
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01)**
[25] EN
[54] **METHOD FOR PRODUCING LITHIUM METAL COMPOSITE OXIDE**
[54] **METHODE DE PRODUCTION D'UN OXYDE COMPOSITE DE LITHIUM-METAL**
[72] HANAFUSA, TATSUYA, JP
[71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP
[85] 2023-05-10
[86] 2021-11-16 (PCT/JP2021/042047)
[87] (WO2022/107754)
[30] JP (2020-190940) 2020-11-17

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[21] **3,198,216**
[13] A1

[51] **Int.Cl. A61K 31/554 (2006.01) A61P 5/00 (2006.01) C07D 281/10 (2006.01)**

[25] EN

[54] **BENZOTHIA(DI)AZEPINE COMPOUNDS AND THEIR USE AS BILE ACID MODULATORS**

[54] **COMPOSES DE BENZOTHIA(DI)AZEPINE ET LEUR UTILISATION EN TANT QUE MODULATEURS DE L'ACIDE BILIAIRE**

[72] GILLBERG, PER-GORAN, SE
[72] STARKE, INGEMAR, SE
[72] KULKARNI, SANTOSH S., IN
[71] ALBIREO AB, SE
[85] 2023-05-10
[86] 2021-12-03 (PCT/EP2021/084081)
[87] (WO2022/117778)
[30] EP (PCT/EP2020/084567) 2020-12-04

[21] **3,198,218**
[13] A1

[51] **Int.Cl. G04R 60/06 (2013.01) G04R 60/08 (2013.01) H01Q 1/27 (2006.01) H01Q 3/26 (2006.01)**

[25] EN

[54] **WEARABLE ACCESSORY WITH PHASED ARRAY ANTENNA SYSTEM**

[54] **ACCESSOIRE PORTABLE DOTE D'UN SYSTEME D'ANTENNE RESEAU A COMMANDE DE PHASE**

[72] WOODS, WAYNE H. JR., US
[71] GLAIVERF, INC., US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059120)
[87] (WO2022/104044)
[30] US (17/097,216) 2020-11-13

[21] **3,198,229**
[13] A1

[51] **Int.Cl. H01Q 3/08 (2006.01) H01Q 5/20 (2015.01) H01Q 3/36 (2006.01)**

[25] EN

[54] **WEARABLE ACCESSORY WITH PHASED ARRAY ANTENNA SYSTEM**

[54] **ACCESSOIRE PORTABLE DOTE D'UN SYSTEME D'ANTENNE RESEAU A COMMANDE DE PHASE**

[72] WOODS, WAYNE H. JR., US
[71] GLAIVERF, INC., US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059164)
[87] (WO2022/104076)
[30] US (17/097,209) 2020-11-13

[21] **3,198,230**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/60 (2017.01) A61K 47/66 (2017.01)**

[25] EN

[54] **CONJUGATE AND USE THEREOF**

[54] **CONJUGUE ET SON UTILISATION**

[72] CHEN, JIAN, CN
[72] ZHAO, HAIBO, CN
[72] GU, RONG, CN
[71] NANJING CHEMPION BIOTECHNOLOGY CO., LTD., CN
[85] 2023-05-10
[86] 2022-01-28 (PCT/CN2022/074523)
[87] (WO2022/161452)
[30] CN (202110116059.7) 2021-01-28
[30] CN (202111671761.6) 2021-12-31

[21] **3,198,231**
[13] A1

[51] **Int.Cl. A01F 12/28 (2006.01)**

[25] EN

[54] **DYNAMICALLY OPERATED CONCAVE THRESHING BAR**

[54] **BARRE DE BATTAGE DE CONTRE-BATTEUR A FONCTIONNEMENT DYNAMIQUE**

[72] ROBERTSON, BRIAN, US
[71] ROBERTSON, BRIAN, US
[85] 2023-05-10
[86] 2021-10-28 (PCT/US2021/057062)
[87] (WO2022/103591)
[30] US (17/099,601) 2020-11-16

[21] **3,198,232**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/078 (2010.01) C12N 15/113 (2010.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **METHODS FOR PRODUCING CELL POPULATIONS WITH INCREASED NUCLEIC ACID UPTAKE**

[54] **PROCEDES DE PRODUCTION DE POPULATIONS DE CELLULES PRESENTANT UNE ABSORPTION ACCRUE D'ACIDES NUCLEIQUES**

[72] WARD, ANTHONY, US
[72] CAMPOS GONZALEZ, ROBERTO, US
[72] OUAGUIA-PALUDAN, LAURISSA, US
[72] HEALEY, LAURA, US
[71] GPB SCIENTIFIC, LLC, US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059220)
[87] (WO2022/104124)
[30] US (63/113,471) 2020-11-13
[30] US (63/163,585) 2021-03-19

[21] **3,198,233**
[13] A1

[51] **Int.Cl. B32B 13/04 (2006.01) B32B 13/02 (2006.01) B32B 13/14 (2006.01)**

[25] EN

[54] **PLASTERBOARD WITH IMPROVED NAIL PULL RESISTANCE**

[54] **PLAQUE DE PLATRE PRESENTANT UNE RESISTANCE AMELIOREE A L'ARRACHAGE DES CLOUS**

[72] KARAKOUSSIS, STERGIOS, DE
[72] PARASKOV, GEORGI, DE
[72] HARTMANN, ALEXANDER, DE
[72] KNAUF, CARLO, DE
[72] PETER, ANTON, DE
[71] KNAUF GIPS KG, DE
[85] 2023-05-10
[86] 2021-12-22 (PCT/EP2021/000158)
[87] (WO2022/135734)
[30] EP (20000482.8) 2020-12-22

Demandes PCT entrant en phase nationale

[21] **3,198,234**
[13] A1

[51] **Int.Cl. F42D 1/10 (2006.01) F42D 3/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING WATER DEPTH AND EXPLOSIVE DEPTH IN BLASTHOLES**
[54] **SYSTEMES ET PROCEDES POUR LA DETERMINATION DE PROFONDEUR D'EAU ET DE PROFONDEUR D'EXPLOSIF DANS DES TROUS DE MINE**
[72] TERRY, PAUL, AU
[72] MYERS, JOHN, AU
[71] DYNNO NOBEL ASIA PACIFIC PTY LIMITED, AU
[85] 2023-05-10
[86] 2021-11-09 (PCT/AU2021/051320)
[87] (WO2022/099356)
[30] AU (2020904099) 2020-11-10

[21] **3,198,235**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/4155 (2006.01) A61K 31/713 (2006.01)**
[25] EN
[54] **METHODS FOR DISRUPTING MITOCHONDRIAL UNFOLDED PROTEIN RESPONSE**
[54] **PROCEDES POUR PERTURBER UNE REPONSE DE PROTEINE DEPLIEE MITOCHONDRIALE**
[72] CHANDRA, DHYAN, US
[72] KUMAR, RAHUL, US
[72] YADAV, NEELU, US
[71] HEALTH RESEARCH, INC., US
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/058863)
[87] (WO2022/103897)
[30] US (63/112,613) 2020-11-11

[21] **3,198,237**
[13] A1

[51] **Int.Cl. G06F 16/2458 (2019.01) G06F 16/2452 (2019.01) G06F 16/25 (2019.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND PROGRAM PRODUCTS FOR PROVIDING INVESTMENT EXPERTISE USING A FINANCIAL ONTOLOGY FRAMEWORK**
[54] **SYSTEMES, PROCEDES ET PRODUITS DE PROGRAMME PERMETTANT DE FOURNIR UNE EXPERTISE D'INVESTISSEMENT A L'AIDE D'UNE STRUCTURE D'ONTOLOGIE FINANCIERE**
[72] NAIR, VINAY, US
[72] JAIN, ANIKET VIJAYKUMAR, US
[71] MAGNIFI LLC, US
[85] 2023-05-10
[86] 2021-11-08 (PCT/US2021/058405)
[87] (WO2022/103683)
[30] US (63/198,751) 2020-11-10

[21] **3,198,240**
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING AN OPERATION OF AN ATTRACTION SYSTEM**
[54] **SYSTEMES ET PROCEDES DE COMMANDE D'UNE OPERATION D'UN SYSTEME D'ATTRACTION**
[72] LUGO, VICTOR ALEXANDER, US
[72] FREEDMAN, DANIEL MATTHEW, US
[72] AKBAS, ASLI SOYLER, US
[72] ANDERSON, JAMES, US
[72] CRYDER, JARED, US
[72] JORDAN, ROBERT, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-05-10
[86] 2021-11-29 (PCT/US2021/060991)
[87] (WO2022/119771)
[30] US (63/120,045) 2020-12-01
[30] US (17/462,851) 2021-08-31

[21] **3,198,241**
[13] A1

[51] **Int.Cl. G08G 1/01 (2006.01)**
[25] EN
[54] **A REAL TIME INFORMATION SYSTEM FOR ROAD USERS**
[54] **SYSTEME D'INFORMATION EN TEMPS REEL POUR USAGERS DE LA ROUTE**
[72] MOYNIHAN, JOHN, IE
[72] MAGUIRE, TONY, IE
[72] LOUGHLIN, SEAN, GB
[72] HAYWARD, MICHAEL, GB
[72] KELLY, MARTIN, GB
[71] LAGAN CRAWL LIMITED, IE
[85] 2023-05-10
[86] 2021-12-13 (PCT/EP2021/085542)
[87] (WO2022/136010)
[30] EP (20216720.1) 2020-12-22

[21] **3,198,242**
[13] A1

[51] **Int.Cl. C12Q 1/6853 (2018.01) C12Q 1/6844 (2018.01)**
[25] EN
[54] **LOOP MEDIATED ISOTHERMAL NUCLEIC ACID AMPLIFICATION (LAMP) USING LNA-MODIFIED PRIMERS AND A METAL-BASED COLORIMETRIC METHOD FOR DETECTING AN AMPLIFICATION PRODUCT**
[54] **AMPLIFICATION ISOTHERME D'ACIDE NUCLEIQUE A MEDIATION PAR LES BOUCLES (LAMP) UTILISANT DES AMORCES MODIFIEES PAR LNA ET PROCEDE COLORIMETRIQUE A BASE DE METAL POUR DETECTER UN PRODUIT D'AMPLIFICATION**
[72] CEKAN, PAVOL, SK
[72] PAUL, EVAN, SK
[72] SZOBI, ADRIAN, SK
[72] VOJTASSAKOVA, NINA, SK
[72] BURANOVSKA, KATARINA, SK
[71] MULTIPLEXDX, S.R.O., SK
[85] 2023-05-10
[86] 2021-11-10 (PCT/EP2021/081230)
[87] (WO2022/101259)
[30] EP (20206643.7) 2020-11-10
[30] US (63/120,652) 2020-12-02

PCT Applications Entering the National Phase

[21] **3,198,243**
[13] A1

[51] **Int.Cl. A47F 3/04 (2006.01)**
[25] EN
[54] **OPEN-WALLED, TEMPERATURE CONTROLLED ENVIRONMENT**
[54] **ENVIRONNEMENT A PAROIS OUVERTES ET A TEMPERATURE REGULEE**

[72] COSTANZA, JAMES M., US
[72] SHARMA, RAHUL, US
[72] CLINE, MICHAEL, US
[71] KPS GLOBAL LLC, US
[85] 2023-05-10
[86] 2021-05-13 (PCT/US2021/032214)
[87] (WO2022/115125)
[30] US (63/117,677) 2020-11-24
[30] US (63/168,207) 2021-03-30

[21] **3,198,244**
[13] A1

[51] **Int.Cl. B65D 5/38 (2006.01)**
[25] EN
[54] **PUSH-OVER BOX**
[54] **BOITE CLOCHE**

[72] MACK, RALF, DE
[72] SPAHLINGER, CAROLIN, DE
[71] GPI FRANKFURT & AUGSBURG GMBH, DE
[85] 2023-05-10
[86] 2021-11-11 (PCT/EP2021/081379)
[87] (WO2022/101339)
[30] DE (20 2020 106 481.9) 2020-11-11

[21] **3,198,245**
[13] A1

[51] **Int.Cl. F24B 13/04 (2006.01) F23K 3/14 (2006.01)**
[25] EN
[54] **PELLET FEEDER SHUT-OFF MECHANISM FOR PELLET GRILLS AND SMOKERS**
[54] **MECANISME D'ARRET DE DISPOSITIF D'ALIMENTATION DE PASTILLES POUR GRILLES ET FUMEURS DE PASTILLES**

[72] KESSLER, THOMAS, US
[72] RAHMANI, RAMIN KHOSRAVI, US
[72] HAMILTON, ANTHONY, US
[71] W.C. BRADLEY CO., US
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/058862)
[87] (WO2022/103896)
[30] US (63/112,024) 2020-11-10

[21] **3,198,246**
[13] A1

[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 31/496 (2006.01) A61K 45/06 (2006.01) A61P 7/10 (2006.01)**
[25] EN
[54] **PROPHYLAXIS AND TREATMENT OF ANGIOEDEMA**
[54] **PROPHYLAXIE ET TRAITEMENT DE L'ANGIOEDEMA DE QUINCKE**

[72] LESAGE, ANNE, CH
[72] LU, PENG, CH
[71] PHARVARIS GMBH, CH
[85] 2023-05-10
[86] 2021-11-12 (PCT/EP2021/081493)
[87] (WO2022/101395)
[30] EP (20207273.2) 2020-11-12

[21] **3,198,248**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 31/436 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **FORMULATIONS, METHODS, KITS, AND DOSAGE FORMS PREPARATIONS, PROCEDES, NECESSAIRES ET FORMES POSOLOGIQUES**

[72] SUN, ZHAOLI, US
[72] SUN, JOHN, US
[72] GRIFFIN, JARED, US
[72] EATMON, CHRISTY, US
[72] LABELL, RACHEL, US
[72] LIU, ZHIMIN, US
[72] BREWER, RICHARD, US
[72] AGYEMANG, ISAAC, US
[72] WILLIAMS, MITCHELL, US
[71] MEDREGEN, LLC, US
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/058727)
[87] (WO2022/103798)
[30] US (63/111,895) 2020-11-10

[21] **3,198,250**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/19 (2006.01) A61K 45/06 (2006.01) A61P 15/02 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR USE IN THE PREVENTION OR TREATMENT OF A CONDITION ASSOCIATED WITH A REDUCTION IN THE NUMBER OF LACTOBACILLI IN THE VAGINA**

[54] **COMPOSITION PHARMACEUTIQUE**

[72] LONG, PAUL, GB
[72] SUTCLIFFE, ALASTAIR, GB
[72] TULEU, CATHERINE, GB
[71] UCL BUSINESS LTD, GB
[71] KING'S COLLEGE LONDON, GB
[85] 2023-05-10
[86] 2021-11-17 (PCT/GB2021/052973)
[87] (WO2022/106819)
[30] GB (2018068.3) 2020-11-17

[21] **3,198,252**
[13] A1

[51] **Int.Cl. A61B 17/86 (2006.01) A61B 50/30 (2016.01) A61B 17/17 (2006.01) A61B 17/72 (2006.01) A61B 17/74 (2006.01) A61B 17/80 (2006.01) A61B 17/84 (2006.01) A61F 2/40 (2006.01) A61F 2/78 (2006.01)**
[25] EN
[54] **FASTENING DEVICES, SYSTEMS, AND METHODS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE FIXATION**

[72] HYER, RICHARD JUSTIN, US
[72] BITTER, JONATHAN, US
[72] FAUTH, ANDREW, US
[72] WHITE, RAYMOND, US
[72] CAMUSO, MATTHEW, US
[72] JOHNSON, COREY, US
[71] RTG SCIENTIFIC, LLC, US
[85] 2023-05-10
[86] 2021-11-19 (PCT/US2021/060196)
[87] (WO2022/109338)
[30] US (63/116,092) 2020-11-19
[30] US (63/147,640) 2021-02-09
[30] US (17/468,806) 2021-09-08

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[21] **3,198,253**
[13] A1

[51] **Int.Cl. C08J 9/14 (2006.01) C08J 9/12 (2006.01)**

[25] EN

[54] **BLOWING AGENTS FOR EXTRUDED POLYSTYRENE FOAM AND EXTRUDED POLYSTYRENE FOAM AND METHODS OF FOAMING**

[54] **AGENTS GONFLANTS POUR MOUSSE DE POLYSTYRENE EXTRUDE ET MOUSSE DE POLYSTYRENE EXTRUDE ET PROCEDES DE MOUSSAGE**

[72] GIMENO, JOSEF, US

[72] HULSE, RYAN, US

[72] MAHMOOD, SYED HASSAN, US

[71] HONEYWELL INTERNATIONAL INC., US

[85] 2023-05-10

[86] 2021-11-17 (PCT/US2021/072464)

[87] (WO2022/109565)

[30] US (63/114,948) 2020-11-17

[30] US (63/181,135) 2021-04-28

[30] US (17/527,787) 2021-11-16

[21] **3,198,258**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/4709 (2006.01) A61K 45/00 (2006.01) A61P 25/02 (2006.01) A61P 29/02 (2006.01) C07K 14/705 (2006.01) C12N 15/12 (2006.01)**

[25] EN

[54] **MEDICINE FOR ALLEVIATING NEUROPATHIC PAIN**

[54] **MEDICAMENT POUR SOULAGER LA DOULEUR NEUROPATHIQUE**

[72] IMAI, YOSUKE, JP

[72] YAMAMOTO, HIKARU, JP

[71] ASAHI KASEI PHARMA CORPORATION, JP

[85] 2023-05-10

[86] 2021-11-26 (PCT/JP2021/043375)

[87] (WO2022/114122)

[30] JP (2020-199206) 2020-11-30

[21] **3,198,260**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2023.01) G06Q 30/02 (2023.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IMPROVED VEHICLE TRANSACTION PLATFORMS**

[54] **SYSTEMES ET PROCEDES POUR DES PLATES-FORMES DE TRANSACTION DE VEHICULES AMELIOREES**

[72] LETAYF, MAZEN, US

[72] FAIRCLOTH, JOHN, US

[71] COX AUTOMOTIVE, INC., US

[85] 2023-05-10

[86] 2021-11-05 (PCT/US2021/058327)

[87] (WO2022/108774)

[30] US (63/115,974) 2020-11-19

[30] US (17/129,534) 2020-12-21

[21] **3,198,261**
[13] A1

[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/6888 (2018.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **ASSAYS, KITS AND METHODS FOR DETECTION OF BOVINE RESPIRATORY DISEASE COMPLEX-ASSOCIATED PATHOGENS**

[54] **DOSAGES, KITS ET METHODES DE DETECTION D'AGENTS PATHOGENES ASSOCIES A UN COMPLEXE DE MALADIE RESPIRATOIRE BOVINE**

[72] VERMA, MOHIT, US

[72] MOHAN, SURAJ, US

[72] PASCUAL-GARRIGOS, ANA, US

[72] BROUWER, HALEY, US

[72] KOZIOL, JENNIFER, US

[72] SCHOONMAKER, JON, US

[72] JOHNSON, TIMOTHY, US

[71] PURDUE RESEARCH FOUNDATION, US

[85] 2023-05-10

[86] 2021-11-11 (PCT/US2021/059032)

[87] (WO2022/103995)

[30] US (63/112,412) 2020-11-11

[30] US (63/170,771) 2021-04-05

[21] **3,198,262**
[13] A1

[51] **Int.Cl. A63G 7/00 (2006.01) A63G 31/00 (2006.01) A63G 31/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PRIVATE AUDIO CHANNELS**

[54] **SYSTEME ET PROCEDE DE CANAUX AUDIO PRIVES**

[72] HANLEY, KYLE, US

[72] SMITH, JOHN DAVID, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2023-05-10

[86] 2021-12-02 (PCT/US2021/061641)

[87] (WO2022/120070)

[30] US (63/121,550) 2020-12-04

[30] US (17/538,612) 2021-11-30

[21] **3,198,263**
[13] A1

[51] **Int.Cl. C09J 103/02 (2006.01) C03C 25/321 (2018.01) C08K 5/053 (2006.01)**

[25] FR

[54] **BINDER COMPOSITION BASED ON BIOSOURCED INGREDIENTS AND USE THEREOF FOR FORMING NON-WOVEN GLASS-FIBRE WEBS**

[54] **COMPOSITION DE LIANT A BASE D'INGREDIENTS BIOSOURCES ET SON UTILISATION POUR FORMER DES VOILES NON-TISSEES DE FIBRES DE VERRE**

[72] SIMONIN, LEO, FR

[71] SAINT-GOBAIN ADFORS, FR

[85] 2023-05-10

[86] 2021-11-19 (PCT/FR2021/052042)

[87] (WO2022/106789)

[30] FR (FR2011924) 2020-11-20

[21] **3,198,264**
[13] A1

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

[25] EN

[54] **LABELING MACHINE**

[54] **MACHINE D'ETIQUETAGE**

[72] BARDINI, RICCARDO, IT

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

[85] 2023-05-10

[86] 2021-12-13 (PCT/EP2021/085386)

[87] (WO2022/128857)

[30] IT (102020000030812) 2020-12-15

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[21] **3,198,265**
[13] A1

[51] **Int.Cl. C07K 1/18 (2006.01) C07K 1/22 (2006.01)**
[25] EN
[54] **BUFFERS AND METHODS FOR PURIFYING PROTEINS**
[54] **SYSTEMES ET PROCEDES DE PURIFICATION DE PROTEINES**
[72] HILBOLD, NICOLAS-JULIAN, CH
[72] PASQUIER, VICTOR, CH
[72] DUTRONC, THIBAUT, CH
[71] ARES TRADING S.A., CH
[85] 2023-05-10
[86] 2020-11-20 (PCT/EP2020/082950)
[87] (WO2022/106031)

[21] **3,198,268**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01)**
[25] EN
[54] **LIVER-SPECIFIC WNT SIGNAL ENHANCING MOLECULES AND USES THEREOF**
[54] **MOLECULES D'AMELIORATION DE SIGNAUX WNT SPECIFIQUES DU FOIS ET LEURS UTILISATIONS**
[72] LI, YANG, US
[72] ZHANG, ZHENGJIAN, US
[72] BREZSKI, RANDALL J., US
[72] PRESTA, LEONARD, US
[72] LOPEZ, THOMAS, US
[72] CHEN, HUI, US
[72] BARIBAUT, HELENE, US
[72] YEH, WEN-CHEN, US
[72] TU, SHENGJIANG, US
[71] SURROZEN OPERATING, INC., US
[85] 2023-05-10
[86] 2021-11-16 (PCT/US2021/059564)
[87] (WO2022/104280)
[30] US (63/114,457) 2020-11-16
[30] US (63/182,106) 2021-04-30
[30] US (63/248,157) 2021-09-24

[21] **3,198,269**
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) A61K 35/35 (2015.01) A61P 3/10 (2006.01) A61P 11/06 (2006.01) A61P 25/02 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **THERAPEUTIC METHODS AND COMPOSITIONS UTILIZING STROMAL VASCULAR FRACTION DERIVED FROM ADIPOSE TISSUE**
[54] **METHODES ET COMPOSITIONS THERAPEUTIQUES UTILISANT UNE FRACTION VASCULAIRE STROMALE DERIVEE DE TISSU ADIPEUX**
[72] POLANSKY, GLENN, US
[71] ADVANCED THERAPEUTIC LAB, INC., US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059155)
[87] (WO2022/104069)
[30] US (63/113,481) 2020-11-13

[21] **3,198,270**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61J 1/10 (2006.01) A61J 1/14 (2006.01) B32B 27/08 (2006.01) B32B 27/30 (2006.01)**
[25] EN
[54] **DISPOSABLE FLUID CIRCUITS AND CONTAINERS FOR SUPPRESSING HEMOLYSIS IN STORED RED BLOOD CELLS**
[54] **CIRCUITS DE FLUIDE JETABLES ET RECIPIENTS POUR INHIBER L'HEMOLYSE DANS DES GLOBULES ROUGES STOCKES**
[72] SANDFORD, CRAIG L., US
[72] LYNN, DANIEL R., US
[72] KARPIEL, ADRIENNE, US
[72] MATSER, TIMO, US
[71] FENWAL, INC., US
[85] 2023-05-10
[86] 2021-12-17 (PCT/US2021/064163)
[87] (WO2022/133291)
[30] US (63/127,649) 2020-12-18

[21] **3,198,274**
[13] A1

[51] **Int.Cl. A63G 31/02 (2006.01) B25J 18/06 (2006.01)**
[25] EN
[54] **CONICAL-SHAPED ARTICULATED MEMBER**
[54] **ELEMENT ARTICULE DE FORME CONIQUE**
[72] GEBHARDT, MICHAEL JAMES, US
[72] FALLS, CLAIRSSE VAMOS, US
[72] VANCE, CARISSA RICHELE, US
[72] VYAS, ANISHA, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-05-10
[86] 2021-11-19 (PCT/US2021/060078)
[87] (WO2022/119727)
[30] US (63/121,805) 2020-12-04
[30] US (17/530,307) 2021-11-18

[21] **3,198,275**
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **ADAPTER FOR ATTACHING A TOOL TO A WORK IMPLEMENT**
[54] **ADAPTATEUR POUR FIXER UN OUTIL A UN EQUIPEMENT DE TRAVAIL**
[72] SINN, ERIC T., US
[72] SERRURIER, DOUGLAS C., US
[72] YOEU, RAMMAGY, US
[71] CATERPILLAR INC., US
[85] 2023-05-10
[86] 2021-10-13 (PCT/US2021/054646)
[87] (WO2022/108688)
[30] US (16/951,231) 2020-11-18

[21] **3,198,276**
[13] A1

[51] **Int.Cl. B07C 5/34 (2006.01) G01N 21/90 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR BLOW-FILL-SEAL (BFS) PRODUCT INSPECTION**
[54] **SYSTEMES ET PROCEDES D'INSPECTION DE PRODUIT DE FORMAGE-REMPLISSAGE-SCCELLAGE (BFS)**
[72] CHAN, JOE, US
[72] HENDY, BARRY, AU
[72] LESLIE, PHILIP, AU
[71] KOSKA FAMILY LIMITED, GB
[85] 2023-05-10
[86] 2021-11-24 (PCT/US2021/060813)
[87] (WO2022/115598)
[30] US (63/118,001) 2020-11-24

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[21] **3,198,277**
[13] A1

[51] **Int.Cl. G01S 11/00 (2006.01)**
[25] EN
[54] **FILTERING CHANNEL RESPONSES FOR MOTION DETECTION**
[54] **FILTRAGE DE REPONSES DE CANAL POUR DETECTION DE MOUVEMENT**
[72] OMER, MOHAMMAD, CA
[72] ZAKHAROV, MIKHAIL ALEXAND, CA
[71] COGNITIVE SYSTEMS CORP., CA
[85] 2023-05-10
[86] 2021-04-23 (PCT/CA2021/050560)
[87] (WO2022/109712)
[30] US (17/106,989) 2020-11-30

[21] **3,198,278**
[13] A1

[51] **Int.Cl. A61K 31/4045 (2006.01) A61K 31/4196 (2006.01) A61K 31/422 (2006.01) A61K 31/48 (2006.01)**
[25] EN
[54] **TREATING OBSESSIVE-COMPULSIVE DISORDER USING BOL-148**
[54] **TRAITEMENT D'UN TROUBLE OBSESSIONNEL COMPULSIF A L'AIDE DE BOL-148**
[72] TURNBULL, CAREY, US
[71] CERUVIA LIFESCIENCES LLC, US
[85] 2023-05-10
[86] 2021-11-23 (PCT/US2021/060460)
[87] (WO2022/115405)
[30] US (63/118,025) 2020-11-25

[21] **3,198,280**
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **WORK IMPLEMENT ASSEMBLY USING ADAPTERS, ADAPTER COVERS, AND A NOTCHED BASE EDGE**
[54] **ENSEMBLE OUTIL DE TRAVAIL UTILISANT DES ADAPTATEURS, DES COUVERCLES D'ADAPTATEUR ET UN BORD DE BASE CRANTE**
[72] SINN, ERIC T., US
[72] SERRURIER, DOUGLAS C, US
[72] YOEU, RAMMAGY, US
[71] CATERPILLAR INC., US
[85] 2023-05-10
[86] 2021-11-15 (PCT/US2021/059310)
[87] (WO2022/108859)
[30] US (16/951,186) 2020-11-18

[21] **3,198,286**
[13] A1

[51] **Int.Cl. F42D 1/10 (2006.01) B01F 25/431 (2022.01) F42D 3/04 (2006.01)**
[25] EN
[54] **END OF HOSE MIXING SYSTEMS AND METHODS**
[54] **EXTREMITE DE SYSTEMES DE MELANGE DE TUYAUX ET PROCEDES**
[72] DE VRIES, BERNHARD, AU
[72] BUDD, JAMIE, AU
[72] LOVELL, VERLENE, US
[72] SAMAT, SAVAS, AU
[71] DYNO NOBEL ASIA PACIFIC PTY LIMITED, AU
[85] 2023-05-10
[86] 2021-11-09 (PCT/AU2021/051319)
[87] (WO2022/099355)
[30] AU (2020904106) 2020-11-10

[21] **3,198,287**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**
[25] EN
[54] **A VEHICLE FOR TRANSPORTING STORAGE CONTAINERS IN AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM**
[54] **VEHICULE POUR TRANSPORTER DES CONTENANTS DE STOCKAGE DANS UN SYSTEME DE STOCKAGE ET DE RECUPERATION AUTOMATISE**
[72] HEGGEBE, JORGEN DJUVE, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2023-05-10
[86] 2021-10-28 (PCT/EP2021/079988)
[87] (WO2022/111939)
[30] NO (20201317) 2020-11-30

[21] **3,198,288**
[13] A1

[51] **Int.Cl. G09B 29/00 (2006.01) G09G 5/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM DETECTING MODEL FILE CONTENT**
[54] **PROCEDE ET SYSTEME DE DETECTION DE CONTENU DE FICHIER DE MODELE**
[72] WISDOM, MATTHEW, US
[72] KURT, MARK C., US
[72] PHILLIPS, CHRISTOPHER P., US
[71] SHUTTERSTOCK, INC., US
[85] 2023-05-10
[86] 2021-12-03 (PCT/US2021/061869)
[87] (WO2022/120211)
[30] US (17/111,879) 2020-12-04

[21] **3,198,289**
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **WORK IMPLEMENT ASSEMBLY USING ADAPTERS, ADAPTER COVERS, AND A NOTCHED BASE EDGE**
[54] **ENSEMBLE D'OUTIL DE TRAVAIL UTILISANT DES ADAPTATEURS, DES COUVERCLES D'ADAPTATEUR ET UN BORD DE BASE A ENCOCHE**
[72] SINN, ERIC T., US
[72] SERRURIER, DOUGLAS C., US
[72] YOEU, RAMMAGY, US
[71] CATERPILLAR INC., US
[85] 2023-05-10
[86] 2021-11-15 (PCT/US2021/059309)
[87] (WO2022/108858)
[30] US (16/951,630) 2020-11-18

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| <p style="text-align: center;">[21] 3,198,290 [13] A1</p> <p>[51] Int.Cl. B64G 1/66 (2006.01) H04B 10/118 (2013.01) H04B 7/185 (2006.01)</p> <p>[25] EN</p> <p>[54] COMMUNICATION CONTROL APPARATUS, COMMUNICATION CONTROL METHOD, COMMUNICATION CONTROL PROGRAM, COMMUNICATION CONTROL SYSTEM, COMMUNICATION RELAY SATELLITE, AND SATELLITE SYSTEM</p> <p>[54] APPAREIL DE COMMANDE DE COMMUNICATION, PROCEDE DE COMMANDE DE COMMUNICATION, PROGRAMME DE COMMANDE DE COMMUNICATION, SYSTEME DE COMMANDE DE COMMUNICATION, SATELLITE RELAIS DE COMMUNICATION ET SYSTEME DE SATELLITE</p> <p>[72] TSUNEMACHI, SATORU, JP</p> <p>[72] NAGATA, AKIHIRO, JP</p> <p>[72] AZUMA, HIROMITSU, JP</p> <p>[71] WARPSPACE, INC., JP</p> <p>[85] 2023-05-10</p> <p>[86] 2021-11-12 (PCT/JP2021/041809)</p> <p>[87] (WO2022/102760)</p> <p>[30] JP (2020-189818) 2020-11-13</p> <p>[30] JP (2021-121038) 2021-07-21</p> | <p style="text-align: center;">[21] 3,198,293 [13] A1</p> <p>[51] Int.Cl. B32B 27/32 (2006.01) B65D 1/00 (2006.01) C08K 3/34 (2006.01) C08L 23/14 (2006.01)</p> <p>[25] EN</p> <p>[54] POLYPROPYLENE MULTILAYER SHEET</p> <p>[54] FEUILLE DE POLYPROPYLENE MULTICOUCHE</p> <p>[72] UENO, SHINGO, JP</p> <p>[72] NAKAJIMA, TAKESHI, JP</p> <p>[72] IKEDA, MASAYUKI, JP</p> <p>[71] FP CORPORATION, JP</p> <p>[71] SUNALLOMER LTD., JP</p> <p>[85] 2023-05-10</p> <p>[86] 2021-11-11 (PCT/JP2021/041525)</p> <p>[87] (WO2022/102706)</p> <p>[30] JP (2020-189251) 2020-11-13</p> | <p style="text-align: center;">[21] 3,198,296 [13] A1</p> <p>[51] Int.Cl. B65B 11/04 (2006.01) B65B 11/10 (2006.01) B65B 11/30 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD FOR PROVIDING AT LEAST ONE UTENSIL WRAPPED IN A NAPKIN, APPARATUS FOR WRAPPING A NAPKIN AROUND AT LEAST ONE UTENSIL, UTENSIL PICKER AND MAGAZINE FOR STORING UTENSILS</p> <p>[54] PROCEDE DE FOURNITURE D'AU MOINS UN USTENSILE EMBALLE DANS UNE SERVIETTE, APPAREIL D'EMBALLAGE D'UNE SERVIETTE AUTOUR D'AU MOINS UN USTENSILE, DISPOSITIF DE SAISIE D'USTENSILE ET SUPPORT DE STOCKAGE D'USTENSILE</p> <p>[72] FOLEY, KEVIN, US</p> <p>[72] FOLEY, MICHAEL D., US</p> <p>[72] HEILNER, ESKO, US</p> <p>[71] FOLEY, KEVIN, US</p> <p>[71] FOLEY, MICHAEL D., US</p> <p>[71] HEILNER, ESKO, US</p> <p>[85] 2023-05-10</p> <p>[86] 2021-11-11 (PCT/IB2021/060469)</p> <p>[87] (WO2022/101830)</p> <p>[30] US (63/112,392) 2020-11-11</p> |
| <p style="text-align: center;">[21] 3,198,291 [13] A1</p> <p>[51] Int.Cl. E04B 2/96 (2006.01)</p> <p>[25] EN</p> <p>[54] CURTAIN WALL SYSTEM ACCOMMODATING WIRING</p> <p>[54] SYSTEME DE MUR-RIDEAU ACCUEILLANT UN CABLAGE</p> <p>[72] BARBULESCU, ION-HORATIU, US</p> <p>[72] MCKENNA, GREGORY B., US</p> <p>[71] ARCONIC TECHNOLOGIES LLC, US</p> <p>[85] 2023-05-10</p> <p>[86] 2021-11-11 (PCT/US2021/058950)</p> <p>[87] (WO2022/132349)</p> <p>[30] US (63/127,298) 2020-12-18</p> | <p style="text-align: center;">[21] 3,198,294 [13] A1</p> <p>[51] Int.Cl. A61K 47/68 (2017.01)</p> <p>[25] EN</p> <p>[54] SELENIUM ANTIBODY CONJUGATES</p> <p>[54] CONJUGUES D'ANTICORPS AU SELENIUM</p> <p>[72] NITTOLI, THOMAS, US</p> <p>[71] REGENERON PHARMACEUTICALS, INC., US</p> <p>[85] 2023-05-10</p> <p>[86] 2021-11-09 (PCT/US2021/058556)</p> <p>[87] (WO2022/103724)</p> <p>[30] US (63/112,044) 2020-11-10</p> | <p style="text-align: center;">[21] 3,198,297 [13] A1</p> <p>[51] Int.Cl. B32B 27/08 (2006.01) B32B 27/10 (2006.01) B32B 27/12 (2006.01) B32B 27/18 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01) C08J 3/24 (2006.01) C08J 5/18 (2006.01) C08L 23/04 (2006.01) C08L 23/06 (2006.01) C09D 123/06 (2006.01)</p> <p>[25] EN</p> <p>[54] MULTILAYER STRUCTURES AND ARTICLES WITH COATING LAYERS</p> <p>[54] STRUCTURES MULTICOUCHES ET ARTICLES DOTES DE COUCHES DE REVETEMENT</p> <p>[72] OLIVEIRA, MARLOS GIUNTINI DE, BR</p> <p>[72] BISCOGLIO, MICHAEL B., US</p> <p>[72] GOMES, JORGE C., BR</p> <p>[72] VALLE, CAMILA DO, BR</p> <p>[71] DOW GLOBAL TECHNOLOGIES LLC, US</p> <p>[85] 2023-05-10</p> <p>[86] 2021-11-16 (PCT/US2021/059513)</p> <p>[87] (WO2022/108923)</p> <p>[30] US (63/116,251) 2020-11-20</p> |

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[51] **Int.Cl. A61K 47/64 (2017.01) A61K 47/68 (2017.01) A61K 47/69 (2017.01)**

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[54] **ELECTROSTATIC NANOPARTICLES AND USE THEREOF**

[54] **NANOPARTICULES ELECTROSTATIQUES ET LEUR UTILISATION**

[72] FAUST, ANDREAS, DE
[72] BAUMER, SEBASTIAN, DE
[72] BAUMER, NICOLE, DE
[72] BERDEL, WOLFGANG, DE
[72] LENZ, GEORG, DE
[72] WITTMANN, LISA, DE
[71] BAUMER, SEBASTIAN, DE
[71] BAUMER, NICOLE, DE
[71] BERDEL, WOLFGANG, DE
[71] LENZ, GEORG, DE
[71] WITTMANN, LISA, DE
[85] 2023-05-10
[86] 2021-12-02 (PCT/EP2021/083975)
[87] (WO2022/117731)
[30] LU (LU102272) 2020-12-02
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[21] **3,198,299**
[13] A1

[51] **Int.Cl. B29C 53/08 (2006.01) F16L 9/12 (2006.01) F16L 9/128 (2006.01) F16L 9/14 (2006.01)**

[25] FR

[54] **MANUFACTURING METHOD FOR A REINFORCED THERMOPLASTIC PIPE COMPRISING A BENT PORTION**

[54] **PROCEDE DE FABRICATION D'UNE CANALISATION THERMOPLASTIQUE RENFORCEE COMPORTANT UNE PORTION CINTREE**

[72] PERHERIN, DANIEL, FR
[72] BOULZE, DANIEL, FR
[72] HALLAK, NICOLAS, FR
[71] AIRBUS ATLANTIC, FR
[85] 2023-05-10
[86] 2021-11-08 (PCT/EP2021/080892)
[87] (WO2022/106231)
[30] FR (FR2011878) 2020-11-19

[21] **3,198,300**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/506 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **METHODS OF SYNTHESIZING SUBSTITUTED PYRIDINONE-PYRIDINYL COMPOUNDS**

[54] **PROCEDES DE SYNTHESE DE COMPOSES PYRIDINONE-PYRIDINYLE SUBSTITUES**

[72] DECRESCENZO, GARY A., US
[72] SPRINGER, JOHN ROBERT, US
[71] ACLARIS THERAPEUTICS, INC., US
[85] 2023-05-10
[86] 2021-11-23 (PCT/US2021/060584)
[87] (WO2022/109481)
[30] US (63/117,053) 2020-11-23
[30] US (63/239,596) 2021-09-01

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[51] **Int.Cl. B65F 1/08 (2006.01) G06N 20/00 (2019.01)**

[25] EN

[54] **WASTE MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION DE DECHETS**

[72] AHMAD, AQUEEL, SG
[71] INTELLIA TECHNOLOGY PTE LTD, SG
[85] 2023-05-10
[86] 2021-12-10 (PCT/SG2021/050776)
[87] (WO2022/124992)
[30] SG (10202012437X) 2020-12-11

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[51] **Int.Cl. A61K 31/185 (2006.01) A61K 31/4172 (2006.01) A61P 9/10 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **ISOTOPE-ENRICHED 3-AMINO-1-PROPANESULFONIC ACID DERIVATIVES FOR THE TREATMENT OF CEREBROVASCULAR DISEASE**

[54] **DERIVES D'ACIDE 3-AMINO-1-PROPANESULFONIQUE ENRICHIS EN ISOTOPES POUR LE TRAITEMENT D'UNE MALADIE CEREBROVASCULAIRE**

[72] LU, JIASHENG, CN
[72] GU, JIAMIN, CN
[72] KONG, XIANQI, CA
[71] RISEN (SUZHOU) PHARMA TECH CO., LTD., CN
[85] 2023-05-10
[86] 2021-11-10 (PCT/CA2021/051600)
[87] (WO2022/099412)
[30] CN (202011258039.5) 2020-11-11

[21] **3,198,308**
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[51] **Int.Cl. A61K 35/747 (2015.01) A61P 37/04 (2006.01)**

[25] EN

[54] **IMMUNOGENIC PROBIOTIC COMPOSITIONS AND METHODS OF USE INCLUDING IN VACCINATION**

[54] **COMPOSITIONS PROBIOTIQUES IMMUNOGENES ET PROCEDES D'UTILISATION, Y COMPRIS A DES FINS DE VACCINATION**

[72] GANGAIAH, DHARANESH MAHIMAPURA, US
[72] KUMAR, ARVIND, US
[72] LAKSHMANAN, NALLAKANNU PILLAY, US
[72] MANE, SHRINIVASRAO, US
[71] ELANCO US INC., US
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/058779)
[87] (WO2022/103837)
[30] US (63/111,979) 2020-11-10

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| [54] PHARMACEUTICAL COMPOSITIONS COMPRISING PARTICLES AND MRNA AND METHODS FOR PREPARING AND STORING THE SAME | [54] COMPOSITIONS AND METHODS FOR STABILIZATION OF LIPID NANOPARTICLE MRNA VACCINES | [54] AUTONOMOUS ANIMATION IN EMBODIED AGENTS |
| [54] COMPOSITIONS PHARMACEUTIQUES COMPRENANT DES PARTICULES ET DE L'ARNM ET LEURS PROCEDES DE PREPARATION ET DE STOCKAGE | [54] COMPOSITIONS ET PROCEDES DE STABILISATION DE VACCINS A ARNM A NANOPARTICULES LIPIDIQUES | [54] ANIMATION AUTONOME DANS DES AGENTS INCORPORES |
| [72] HAAS, HEINRICH, DE | [72] PANZNER, STEFFEN, DE | [72] HUTTON, JO, NZ |
| [72] THANKI, KAUSHIK, DE | [72] REINSCH, CHRISTIAN, DE | [72] SAGAR, MARK, NZ |
| [72] ESPARZA BORQUEZ, ISAAC HERNAN, DE | [72] THANKI, KAUSHIK, DE | [72] WANG, AMY, NZ |
| [72] HORNER, SEBASTIAN, DE | [72] SOMANI, SUKRUT, DE | [72] CLARK-YOUNGER, HANNAH, NZ |
| [72] SYDYKOV, BULAT, DE | [72] TCHESSALOV, SERGUEI A., US | [72] MARCON, KIRSTIN, NZ |
| [72] KAPP, MARTIN, DE | [72] BHATNAGAR, BAKUL SUBODH, US | [72] SKINNER, PAIGE, NZ |
| [71] BIONTECH SE, DE | [72] DARVARI, RAMIN, US | [72] BLACKETT, SHANE, NZ |
| [85] 2023-05-10 | [72] LUTHRA, SUMIT, US | [72] ROTA, TEAH, NZ |
| [86] 2021-11-15 (PCT/EP2021/081741) | [71] BIONTECH SE, DE | [72] SZU-HSIEN WU, TIM, NZ |
| [87] (WO2022/101486) | [85] 2023-05-10 | [72] SAXENA, UTKARSH, NZ |
| [30] US (63/114,478) 2020-11-16 | [86] 2021-11-15 (PCT/EP2021/081674) | [72] ZHANG, XUEYUAN, NZ |
| [30] EP (PCT/EP2020/082602) 2020-11-18 | [87] (WO2022/101469) | [72] WATSON-SMITH, HAZEL, NZ |
| | [30] US (63/114,478) 2020-11-16 | [72] BIDDLE, TRAVERS, NZ |
| | [30] US (63/115,588) 2020-11-18 | [72] PERRY, EMMA, NZ |
| | | [71] SOUL MACHINES LIMITED, NZ |
| | | [85] 2023-05-10 |
| | | [86] 2021-11-22 (PCT/IB2021/060793) |
| | | [87] (WO2022/107088) |
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| | [51] Int.Cl. H01M 50/51 (2021.01) | [51] Int.Cl. B65D 1/02 (2006.01) B65D 51/00 (2006.01) |
| | [25] EN | [25] EN |
| | [54] INTELLIGENT CONNECTING SHEET, BATTERY PACK AND VEHICLE | [54] GLASS CONTAINERS AND SEALING ASSEMBLIES FOR MAINTAINING SEAL INTEGRITY AT LOW STORAGE TEMPERATURES |
| | [54] FEUILLE DE LIAISON INTELLIGENTE, BLOC-BATTERIE ET VEHICULE | [54] CONTENANTS EN VERRE ET ENSEMBLES D'ETANCHEITE POUR MAINTENIR L'INTEGRITE D'ETANCHEITE A BASSES TEMPERATURES DE STOCKAGE |
| | [72] ZHAO, ZHE, CN | [72] CHRISTIE, DANE ALPHANSO, US |
| | [72] TAO, NAISHU, CN | [72] GOMEZ-MOWER, SINUE, US |
| | [72] PENG, QINGBO, CN | [72] SARAFIAN, ADAM ROBERT, US |
| | [71] BYD COMPANY LIMITED, CN | [72] SCHAUT, ROBERT ANTHONY, US |
| | [85] 2023-05-10 | [71] CORNING INCORPORATED, US |
| | [86] 2021-09-17 (PCT/CN2021/119123) | [85] 2023-05-10 |
| | [87] (WO2022/105405) | [86] 2021-11-05 (PCT/US2021/058243) |
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| [51] Int.Cl. C07D 493/04 (2006.01) C08G 63/672 (2006.01) C08G 64/02 (2006.01) C08G 65/40 (2006.01) C08G 75/23 (2006.01) | | |
| [25] FR | | |
| [54] PRODUCT OF INTERNAL DEHYDRATION OF HIGH-PURITY SORBITOL | | |
| [54] PRODUIT DE DESHYDRATATION INTERNE DU SORBITOL DE HAUTE PURETE | | |
| [72] JACQUEL, NICOLAS, FR | | |
| [72] SAINT-LOUP, RENE, FR | | |
| [72] VANBESIEN, THEODORE, FR | | |
| [71] ROQUETTE FRERES, FR | | |
| [85] 2023-05-10 | | |
| [86] 2021-11-19 (PCT/EP2021/025454) | | |
| [87] (WO2022/111849) | | |
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[13] A1

[51] **Int.Cl. G06T 13/40 (2011.01)**
[25] EN
[54] **SKELETAL ANIMATION IN EMBODIED AGENTS**
[54] **ANIMATION DE SQUELETTE DANS DES AGENTS ANIMES**
[72] SAGAR, MARK, NZ
[72] HUTTON, JO, NZ
[72] WU, TIM, NZ
[72] RIBEIRO, TIAGO, PT
[72] SUMETC, PAVEL, NZ
[71] SOUL MACHINES LIMITED, NZ
[85] 2023-05-10
[86] 2021-11-22 (PCT/IB2021/060792)
[87] (WO2022/107087)
[30] NZ (770157) 2020-11-20

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[13] A1

[51] **Int.Cl. C07D 273/02 (2006.01) C07D 413/10 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **COMPOUNDS AND USES THEREOF**
[54] **COMPOSES ET LEURS UTILISATIONS**
[72] WILSON, KEVIN J., US
[72] NEGRETTI, SOLYMAR, US
[72] SCHILLER, SHAWN E.R., US
[72] VASWANI, RISHI G., US
[72] HUANG, DAVID S., US
[72] VOIGT, JOHANNES H., US
[71] FOGHORN THERAPEUTICS INC., US
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/058865)
[87] (WO2022/103899)
[30] US (63/112,126) 2020-11-10

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[51] **Int.Cl. A61P 21/00 (2006.01) A61P 37/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **BIPHASIC SUBCUTANEOUS DOSING REGIMENS FOR ANTI-VLA-4 ANTIBODIES**
[54] **SCHEMAS POSOLOGIQUES SOUS-CUTANES BIPHASIQUES POUR DES ANTICORPS ANTI-VLA-4**
[72] ZHAO, YUAN, US
[72] NAIK, HIMANSHU, US
[72] CAMPBELL, NOLAN, US
[71] BIOGEN MA INC., US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059266)
[87] (WO2022/104156)
[30] US (63/113,864) 2020-11-14
[30] US (63/142,968) 2021-01-28

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[13] A1

[51] **Int.Cl. F16D 1/10 (2006.01)**
[25] EN
[54] **METHOD FOR REMANUFACTURING INTERNAL SPLINE COMPONENTS**
[54] **PROCEDE DE REFABRICATION DE COMPOSANTS CANNELES INTERNES**
[72] STEINMETZ, ANDREW D., US
[72] JAYASINGHE, CHANDIMA SURANGIE, US
[71] CATERPILLAR INC., US
[85] 2023-05-10
[86] 2021-11-19 (PCT/US2021/060033)
[87] (WO2022/109231)
[30] US (17/101,463) 2020-11-23

[21] **3,198,321**
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) G06F 21/34 (2013.01) G06F 21/62 (2013.01) G06F 16/21 (2019.01) G06F 16/903 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ENTITLEMENT SERVICE DESIGN AND DEPLOYMENT**
[54] **PROCEDES ET SYSTEMES DE CONCEPTION ET DE DEPLOIEMENT DE SERVICE DE DROITS**
[72] GUPTA, SUSHIL K., US
[72] KRISHNAIAH, MANJUNATH P., US
[72] MADDINENI, PRADEEP, US
[72] SHAH, TEJAS H., US
[72] SPRAGUE, JOSHUA Z., US
[72] STEFFEN, MATTHEW, US
[72] THADUVAYI, PHANI S. K., US
[71] CATERPILLAR INC., US
[85] 2023-05-10
[86] 2021-11-23 (PCT/US2021/060470)
[87] (WO2022/109445)
[30] US (63/117,358) 2020-11-23
[30] US (17/529,116) 2021-11-17

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[51] **Int.Cl. A23L 33/19 (2016.01) A23L 33/105 (2016.01) A23L 33/175 (2016.01) A23L 2/66 (2006.01)**
[25] EN
[54] **PROTEIN COMPOSITION FOR HOT FOODS OR BEVERAGES**
[54] **COMPOSITION DE PROTEINE POUR ALIMENTS CHAUDS OU BOISSONS CHAUDES**
[72] BUHMANN, CHRISTOPHER BERNHARD HEINRICH, NZ
[72] BOWDEN, KEITH PATRICK, NZ
[71] NZ PURE HEALTH SYSTEMS LIMITED, NZ
[85] 2023-05-10
[86] 2021-11-10 (PCT/NZ2021/050198)
[87] (WO2022/103279)
[30] NZ (769790) 2020-11-10

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[21] **3,198,327**
[13] A1

[51] **Int.Cl. B62D 55/088 (2006.01)**
[25] EN
[54] **UTILIZING A SUSPENSION PROTECTOR TO DEFLECT DEBRIS AWAY FROM A SET OF SUSPENSION COMPONENTS OF A TRACKED VEHICLE**
[54] **UTILISATION D'UN PROTECTEUR DE SUSPENSION POUR DEVIER DES DEBRIS A L'ECART D'UN ENSEMBLE DE COMPOSANTS DE SUSPENSION D'UN VEHICULE CHENILLE**
[72] TRIPP, FORREST JOEL, US
[72] HOWE, MICHAEL, US
[71] HOWE & HOWE INC., US
[85] 2023-05-10
[86] 2021-12-15 (PCT/US2021/063531)
[87] (WO2022/132910)
[30] US (17/126,554) 2020-12-18

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[51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/55 (2017.01) A61K 31/4745 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **COMBINATION OF AN ANTIBODY-DRUG CONJUGATE WITH ANTI-SIRP.ALPHA. ANTIBODY**
[54] **COMBINAISON D'UN CONJUGUE ANTICORPS-MEDICAMENT AVEC UN ANTICORPS ANTI-SIRP-ALPHA**
[72] SUE, MAYUMI, JP
[72] TSUBAKI, TAKUYA, JP
[72] ISHIMOTO, YOKO, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2023-05-10
[86] 2021-11-10 (PCT/JP2021/041255)
[87] (WO2022/102634)
[30] JP (2020-188084) 2020-11-11

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[51] **Int.Cl. A47K 10/04 (2006.01)**
[25] EN
[54] **FABRIC WARMING RACK**
[54] **RATELIER DE CHAUFFAGE DE TISSU**
[72] FELIX, GUNTER, US
[72] SCHWARTZ, JOSEPH, US
[71] FELIX, GUNTER, US
[71] SCHWARTZ, JOSEPH, US
[85] 2023-05-10
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[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATIC PERSONA GENERATION FROM CONTENT AND ASSOCIATION WITH CONTENTS**
[54] **SYSTEMES ET PROCEDES DE GENERATION AUTOMATIQUE DE PERSONA A PARTIR DE CONTENU ET ASSOCIATION A DES CONTENUS**
[72] SHIN, DONGWOOK, US
[72] TRAN, TUNG THANH, US
[72] HOYE, JEFFERSON D., US
[72] EHLERS, MATTHEW R., US
[71] IDS TECHNOLOGY LLC, US
[85] 2023-05-10
[86] 2021-11-11 (PCT/US2021/058909)
[87] (WO2022/103923)
[30] US (63/112,340) 2020-11-11

[21] **3,198,333**
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **ANTIBODY COMPOSITIONS FOR TREATMENT OF CORONA VIRUS INFECTION**
[54] **COMPOSITIONS D'ANTICORPS POUR TRAITER UNE INFECTION PAR LE VIRUS CORONA**
[72] SAELENS, XAVIER, BE
[72] CALLEWAERT, NICO, BE
[72] SCHEPENS, BERT, BE
[72] ROOSE, KENNY, BE
[72] VAN SCHIE, LOES, BE
[72] STORTELERS, CATELIJNE, BE
[71] VIB VZW, BE
[71] UNIVERSITEIT GENT, BE
[85] 2023-05-10
[86] 2021-12-23 (PCT/EP2021/087602)
[87] (WO2022/136685)
[30] GB (2020502.7) 2020-12-23

[21] **3,198,334**
[13] A1

[51] **Int.Cl. B23D 57/02 (2006.01) B27B 17/12 (2006.01)**
[25] EN
[54] **TARGETED OIL DELIVERY FOR CHAIN SAW BARS**
[54] **DISTRIBUTION D'HUILE CIBLEE POUR GUIDES DE TRONCONNEUSE**
[72] BURMESTER, ERIC M., US
[72] HARFST, MICHAEL D., US
[72] HUTSELL, SAM, US
[72] MCDERMOTT, GENESIS, US
[72] SELLARS, PATRICK, US
[72] CUNNINGTON, JAMES MATTHEW, US
[72] SMITH SEDAGHATY, JONAH, US
[71] OREGON TOOL, INC., US
[85] 2023-05-10
[86] 2021-11-11 (PCT/US2021/059017)
[87] (WO2022/103985)
[30] US (63/113,098) 2020-11-12
[30] US (17/524,543) 2021-11-11

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[21] **3,198,335**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR ARTIFICIAL FACIAL IMAGE GENERATION CONDITIONED ON DEMOGRAPHIC INFORMATION**
[54] **SYSTEMES ET PROCEDES DE GENERATION D'IMAGE FACIALE ARTIFICIELLE CONDITIONNEE SUR DES INFORMATIONS DEMOGRAPHIQUES**
[72] TRAN, TUNG THANH, US
[72] SHIN, DONGWOOK, US
[72] HOYE, JEFFERSON D., US
[72] EHLERS, MATTHEW R., US
[71] IDS TECHNOLOGY LLC, US
[85] 2023-05-10
[86] 2021-11-11 (PCT/US2021/058908)
[87] (WO2022/103922)
[30] US (63/112,323) 2020-11-11

[21] **3,198,341**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS TO IMPROVE THERAPEUTIC OUTCOMES**
[54] **SYSTEMES ET METHODES POUR AMELIORER DES RESULTATS THERAPEUTIQUES**
[72] ADAMS, EDDIE, US
[72] MILLER-MONTGOMERY, SANDRINE, US
[71] MICRONOMA, INC., US
[85] 2023-05-10
[86] 2021-11-11 (PCT/US2021/058999)
[87] (WO2022/103975)
[30] US (63/112,972) 2020-11-12

[21] **3,198,342**
[13] A1

[51] **Int.Cl. C07D 239/48 (2006.01) C07C 307/10 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **BENZENESULFONAMIDE DERIVATIVES AND USES THEREOF**
[54] **DERIVES DE BENZENESULFONAMIDE ET LEURS UTILISATIONS**
[72] GUNNING, PATRIC T., CA
[72] OMEARA, JEFF, CA
[72] AHMAR, SIAWASH, CA
[72] SIMPSON, GRAHAM L., GB
[72] HUNT, PETER, GB
[72] ROSA, DAVID ALEXANDER, GB
[72] PARK, JI SUNG, GB
[71] 2692372 ONTARIO, INC., CA
[71] DUNAD THERAPEUTICS LTD., GB
[85] 2023-05-10
[86] 2021-11-18 (PCT/IB2021/000813)
[87] (WO2022/106902)
[30] US (63/116,731) 2020-11-20

[21] **3,198,344**
[13] A1

[51] **Int.Cl. C07D 205/04 (2006.01) C07D 215/38 (2006.01) C07D 241/04 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 403/12 (2006.01) C07D 471/04 (2006.01) C07K 1/107 (2006.01) C07K 1/113 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITION FOR KRAS MODIFICATIONS**
[54] **PROCEDES ET COMPOSITION POUR EFFECTUER DES MODIFICATIONS DE KRAS**
[72] GUNNING, PATRICK T., CA
[72] OMEARA, JEFF, CA
[72] AHMAR, SIAWASH, CA
[72] SIMPSON, GRAHAM L., GB
[72] HUNT, PETER, GB
[72] ROSA, DAVID ALEXANDER, GB
[72] PARK, JI SUNG, GB
[71] 2692372 ONTARIO, INC., CA
[71] DUNAD THERAPEUTICS LTD., GB
[85] 2023-05-10
[86] 2021-11-18 (PCT/IB2021/000805)
[87] (WO2022/106897)
[30] US (63/116,723) 2020-11-20

[21] **3,198,346**
[13] A1

[51] **Int.Cl. D21C 3/20 (2006.01) C08L 1/02 (2006.01) C08L 5/14 (2006.01)**
[25] EN
[54] **PROCESS FOR THE TREATMENT OF BIOMASS**
[54] **PROCEDE DE TRAITEMENT DE BIOMASSE**
[72] MELE, ANDREA, IT
[72] FERRO, MONICA, IT
[72] COLOMBO DUGONI, GRETA, IT
[71] POLITECNICO DI MILANO, IT
[85] 2023-05-10
[86] 2021-11-15 (PCT/IB2021/060561)
[87] (WO2022/106982)
[30] IT (10202000027840) 2020-11-19

[21] **3,198,347**
[13] A1

[51] **Int.Cl. B60P 7/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AN IMPROVED RATCHETING DEVICE INCLUDING PIVOTING TOOTH**
[54] **SYSTEMES ET PROCEDES POUR UN DISPOSITIF A CLIQUET AMELIORE COMPRENANT UNE DENT PIVOTANTE**
[72] SEADER, REX, US
[71] NITE IZE, INC., US
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/072323)
[87] (WO2022/104336)
[30] US (17/095,534) 2020-11-11

[21] **3,198,382**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 31/4745 (2006.01)**
[25] EN
[54] **TREATMENT OF MESOTHELIOMA BY ADMINISTRATION OF ANTI-B7-H3 ANTIBODY-DRUG CONJUGATE**
[54] **TRAITEMENT DU MESOTHELIOME PAR L'ADMINISTRATION DU CONJUGUE ANTICORPS ANTI-B7-H3-MEDICAMENT**
[72] YAMATO, MICHIKO, JP
[71] DAIICHI SANKYO COMPANY, LIMITED, JP
[85] 2023-05-11
[86] 2021-11-11 (PCT/JP2021/041496)
[87] (WO2022/102695)
[30] JP (2020-188910) 2020-11-12

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[21] **3,198,393**
[13] A1

[51] **Int.Cl. C12N 1/20 (2006.01) C12P 7/6409 (2022.01) C12N 9/02 (2006.01) C12N 9/10 (2006.01) C12N 9/16 (2006.01) C12N 15/52 (2006.01) C12N 15/74 (2006.01) C12P 7/06 (2006.01) C12P 7/18 (2006.01)**

[25] EN

[54] **RECOMBINANT MICROORGANISMS AND USES THEREFOR**

[54] **MICRO-ORGANISMES RECOMBINES ET LEURS UTILISATIONS**

[72] GARG, SHIVANI, US

[72] KOEPKE, MICHAEL, US

[71] LANZATECH, INC., US

[85] 2023-05-11

[86] 2022-03-08 (PCT/US2022/071020)

[87] (WO2022/192865)

[30] US (63/158,336) 2021-03-08

[21] **3,198,403**
[13] A1

[51] **Int.Cl. A61K 31/7084 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **NICOTINAMIDE DINUCLEOTIDE (NAD) DETECTION AND QUANTIFICATION**

[54] **DETECTION ET QUANTIFICATION DU DINUCLEOTIDE NICOTINAMIDE (NAD)**

[72] LASMEZAS, CORINNE, US

[72] ZHOU, MINGHAI, US

[71] THE SCRIPPS RESEARCH INSTITUTE, US

[71] VOVA IDA THERAPEUTICS, INC., US

[85] 2023-05-11

[86] 2021-11-12 (PCT/US2021/059200)

[87] (WO2022/104105)

[30] US (63/113,049) 2020-11-12

[21] **3,198,421**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/168 (2006.01) A61M 5/172 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PRESSURE MANAGEMENT FOR A DRUG DELIVERY DEVICE**

[54] **SYSTEME ET PROCEDE DE GESTION DE PRESSION POUR UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**

[72] BEGUIN, STEVE, IE

[72] YARGER, MICHAEL, US

[72] O'REILLY, SIMON, IE

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-05-11

[86] 2021-11-16 (PCT/US2021/059461)

[87] (WO2022/108903)

[30] US (63/114,905) 2020-11-17

[21] **3,198,433**
[13] A1

[51] **Int.Cl. C07D 241/38 (2006.01) C07D 249/06 (2006.01) C07H 1/00 (2006.01) C07H 21/00 (2006.01) C07H 23/00 (2006.01)**

[25] EN

[54] **OLIGONUCLEOTIDES, REAGENTS AND PREPARATION THEREOF**

[54] **OLIGONUCLEOTIDES, REACTIFS ET PREPARATION ASSOCIEE**

[72] YAN, WUMING, US

[72] ZHOU, XUAN, US

[72] SHI, XIANGLIN, US

[72] ANTIA, FIROZ, US

[72] KIESMAN, WILLIAM F., US

[72] FILLON, YANNICK, US

[71] BIOGEN MA INC., US

[85] 2023-05-11

[86] 2021-11-10 (PCT/US2021/058786)

[87] (WO2022/103842)

[30] US (63/112,281) 2020-11-11

[21] **3,198,451**
[13] A1

[51] **Int.Cl. G02B 6/293 (2006.01) G02B 6/44 (2006.01)**

[25] EN

[54] **FIBER OPTIC TERMINALS HAVING OPTICAL SPLITTER AND WAVELENGTH DIVISION MULTIPLEXING DEVICES**

[54] **TERMINAUX A FIBRES OPTIQUES AYANT UN DIVISEUR OPTIQUE ET DES DISPOSITIFS DE MULTIPLEXAGE PAR REPARTITION EN LONGUEUR D'ONDE**

[72] DE JESUS, LEYDYS DENISS, US

[72] GUI, DONG, US

[72] HESS, MARK PHILIP, US

[72] JENSEN, JOSEPH CLINTON, US

[72] WEBB, LEE ALEXANDER, US

[71] CORNING RESEARCH & DEVELOPMENT CORPORATION, US

[85] 2023-05-11

[86] 2021-11-02 (PCT/US2021/057708)

[87] (WO2022/103621)

[30] US (63/112,899) 2020-11-12

[21] **3,198,453**
[13] A1

[51] **Int.Cl. B64G 1/40 (2006.01) F02K 9/42 (2006.01)**

[25] EN

[54] **SPACECRAFT PROVIDED WITH LOW AND HIGH THRUST PROPULSION SYSTEM**

[54] **ASTRONEF MUNI D'UN SYSTEME DE PROPULSION A FAIBLE ET FORTE POUSSEE**

[72] MINOTTI, ANGELO, IT

[71] MIPRONS SRL, IT

[85] 2023-05-11

[86] 2021-12-01 (PCT/IB2021/061166)

[87] (WO2022/118208)

[30] IT (10202000030011) 2020-12-04

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[21] **3,198,458**
[13] A1

[51] **Int.Cl. E04B 1/86 (2006.01) E04B 9/04 (2006.01) E04B 9/28 (2006.01)**

[25] EN

[54] **AN ACOUSTIC PANEL, A SUSPENDED ACOUSTIC SYSTEM USING SUCH ACOUSTIC PANEL, AND A BASEBOARD**

[54] **PANNEAU ACOUSTIQUE, SYSTEME ACOUSTIQUE SUSPENDU UTILISANT UN TEL PANNEAU ACOUSTIQUE ET PLAQUE DE BASE**

[72] NILSSON, THOMAS, SE

[72] LOVDAHL, ROGER, SE

[71] SAINT-GOBAIN ECOPHON AB, SE

[85] 2023-05-11

[86] 2021-11-05 (PCT/EP2021/080751)

[87] (WO2022/106218)

[30] EP (20208292.1) 2020-11-18

[21] **3,198,462**
[13] A1

[51] **Int.Cl. C22B 3/28 (2006.01) C22B 3/40 (2006.01) C22B 60/02 (2006.01)**

[25] FR

[54] **MIXTURES OF QUATERNARY AMMONIUM SALTS FOR EXTRACTING URANIUM(VI) FROM AQUEOUS SOLUTIONS OF SULFURIC ACID**

[54] **MELANGES DE SELS D'AMMONIUM QUATERNAIRE POUR L'EXTRACTION DE L'URANIUM(VI) DE SOLUTIONS AQUEUSES D'ACIDE SULFURIQUE**

[72] LU, ZIJUN, FR

[72] PELLET-ROSTAING, STEPHANE, FR

[72] DOURDAIN, SANDRINE, FR

[72] ARRACHART, GUILHEM, FR

[72] GIUSTI, FABRICE, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[71] UNIVERSITE DE MONTPELLIER, FR

[71] ECOLE NATIONALE SUPERIEURE DE CHIMIE DE MONTPELLIER (ENSCM), FR

[85] 2023-05-11

[86] 2021-11-29 (PCT/FR2021/052129)

[87] (WO2022/117942)

[30] FR (FR2012535) 2020-12-02

[21] **3,198,464**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/465 (2006.01) A61P 25/34 (2006.01)**

[25] EN

[54] **RAPIDLY INFUSING COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS ET PROCEDES D'INFUSION RAPIDE**

[72] RIDALL, MARK, US

[72] MILETO, VINCENT T., US

[72] WINSLOW, SIMON, US

[72] RIDALL, BRYAN, US

[71] ORCOSA INC., US

[85] 2023-05-11

[86] 2021-11-12 (PCT/US2021/059140)

[87] (WO2022/104059)

[30] US (63/114,181) 2020-11-16

[30] US (63/114,194) 2020-11-16

[30] US (63/147,453) 2021-02-09

[30] US (17225738) 2021-04-08

[30] US (63/172,343) 2021-04-08

[30] US (63/172,362) 2021-04-08

[30] US (63/172,368) 2021-04-08

[30] US (63/172,386) 2021-04-08

[30] US (63/180,193) 2021-04-27

[21] **3,198,465**
[13] A1

[51] **Int.Cl. B65H 75/44 (2006.01) E01F 13/02 (2006.01)**

[25] EN

[54] **STANCHION WITH ILLUMINATED OR LIGHTED BANNER**

[54] **BARRIERE A BANNIERE ILLUMINEE OU ECLAIREE**

[72] WEINER, STEVEN LEWIS, US

[71] HIDDEN TREASURES BY KDW, INC., US

[85] 2023-05-11

[86] 2021-11-16 (PCT/US2021/059442)

[87] (WO2022/108892)

[30] US (63/115,524) 2020-11-18

[21] **3,198,466**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2023.01) G01S 17/88 (2006.01)**

[25] EN

[54] **APPARATUS, RE-ORDERING SYSTEM AND METHOD FOR MONITORING INVENTORY LEVELS**

[54] **APPAREIL, SYSTEME DE REAPPROVISIONNEMENT ET PROCEDE DE SURVEILLANCE DE NIVEAUX DE STOCK**

[72] BRANDT, MIKA, FI

[71] FERROMETAL OY, FI

[85] 2023-05-11

[86] 2021-11-23 (PCT/FI2021/050801)

[87] (WO2022/106761)

[30] FI (20206187) 2020-11-23

[21] **3,198,467**
[13] A1

[51] **Int.Cl. A23F 5/04 (2006.01) A23N 12/08 (2006.01) A23N 12/12 (2006.01) B03C 3/011 (2006.01) B03C 3/017 (2006.01) B03C 3/019 (2006.01) B03C 3/08 (2006.01) B03C 3/09 (2006.01) B03C 3/12 (2006.01) B03C 3/36 (2006.01) B03C 3/41 (2006.01) B03C 3/47 (2006.01) B03C 3/68 (2006.01) B03C 3/78 (2006.01)**

[25] EN

[54] **METHOD TO ROAST COFFEE BEANS**

[54] **PROCEDE DE TORREFACTION DE GRAINS DE CAFE**

[72] MOREND, JOEL, CH

[72] DUBIEF, FLAVIEN FLORENT, CH

[72] DEGREEF, THOMAS RUDI S., BE

[72] CELIS, MICHIEL ALEXANDER, BE

[72] LEMMENS, RIEN DENISE M., BE

[72] BAEKELANDT, MAXIME, BE

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

[85] 2023-05-11

[86] 2021-12-06 (PCT/EP2021/084442)

[87] (WO2022/128581)

[30] EP (20215329.2) 2020-12-18

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[21] **3,198,470**
[13] A1

[51] **Int.Cl. C04B 24/38 (2006.01)**
[25] EN
[54] **USE OF CARRAGEENAN AS A VISCOSITY-MODIFYING ADMIXTURE IN A FLOWABLE CEMENTITIOUS SUSPENSIONS**

[54] **UTILISATION DE CARRAGENANE COMME ADJUVANT MODIFICATEUR DE VISCOSITE DANS DES SUSPENSIONS CIMENAIRES FLUIDES**

[72] YAHIA, AMMAR, CA
[72] BOUARAB, KAMAL, CA
[72] BOUKHATEM, ASMA, CA
[72] MOSTAFA, AHMED, CA
[71] SOCPRA SCIENCES ET GENIE S.E.C., CA
[85] 2023-05-11
[86] 2021-11-18 (PCT/CA2021/051637)
[87] (WO2022/104469)
[30] US (63/115,270) 2020-11-18

[21] **3,198,472**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/53 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **RAPIDLY INFUSING COMPOSITIONS FOR ORAL MUCOSAL DELIVERY AND METHODS**

[54] **COMPOSITIONS A PERFUSION RAPIDE POUR ADMINISTRATION PAR MUQUEUSE BUCCALE ET METHODES**

[72] MILETO, VINCENT T., US
[72] RIDALL, MARK, US
[72] WINSLOW, SIMON, US
[71] ORCOSA INC., US
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/059184)
[87] (WO2022/104091)
[30] US (63/114,181) 2020-11-16
[30] US (17/225,738) 2021-04-08
[30] US (63/114,194) 2020-11-16
[30] US (63/147,453) 2021-02-09
[30] US (63/172,343) 2021-04-08
[30] US (63/172,362) 2021-04-08
[30] US (63/172,368) 2021-04-08
[30] US (63/172,386) 2021-04-08
[30] US (63/180,193) 2021-04-27

[21] **3,198,474**
[13] A1

[51] **Int.Cl. G01N 29/06 (2006.01) G01N 29/24 (2006.01) G01N 29/26 (2006.01)**
[25] EN
[54] **ULTRASOUND SCANNING SYSTEM**

[54] **SYSTEME DE BALAYAGE PAR ULTRASONS**

[72] SYLJUASEN, OYVIND ARNE, NO
[72] SKOGLUND, ESKIL, NO
[72] THIRUD, BJORN-HARALD, NO
[72] RAUDBERGET, YNGVE, NO
[71] DOLPHITECH AS, NO
[85] 2023-05-11
[86] 2021-11-11 (PCT/EP2021/081360)
[87] (WO2022/101331)
[30] GB (2017816.6) 2020-11-11

[21] **3,198,475**
[13] A1

[51] **Int.Cl. C07D 513/22 (2006.01) A61K 31/5377 (2006.01) A61P 31/04 (2006.01) C07F 5/02 (2006.01)**
[25] EN
[54] **NOVEL COMPOUND, PREPARATION METHOD THEREOF, AND ANTIBIOTIC COMPOSITION COMPRISING SAME**

[54] **NOUVEAU COMPOSE, PROCEDE DE PREPARATION ASSOCIE ET COMPOSITION ANTIBIOTIQUE LE COMPRENANT**

[72] HWANG, HEE-JONG, KR
[72] SON, YOUNG-JIN, KR
[72] KIM, DAHYUN, KR
[72] LEE, JUSUK, KR
[72] CIUFOLINI, MARCO, CA
[71] A&J SCIENCE CO.,LTD., KR
[85] 2023-05-11
[86] 2021-11-18 (PCT/KR2021/016975)
[87] (WO2022/108354)
[30] KR (10-2020-0155605) 2020-11-19
[30] KR (10-2021-0158467) 2021-11-17

[21] **3,198,476**
[13] A1

[51] **Int.Cl. C07D 213/80 (2006.01) A01N 43/04 (2006.01)**
[25] EN
[54] **HERBICIDAL DERIVATIVES**

[54] **DERIVES HERBICIDES**

[72] DALE, SUZANNA JANE, GB
[72] BURNS, DAVID, GB
[72] MARTIN, CHRISTOPHER JAMES, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2023-05-11
[86] 2021-11-26 (PCT/EP2021/083129)
[87] (WO2022/117446)
[30] GB (2018996.5) 2020-12-02

[21] **3,198,478**
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **TETRAHYDROCANNABINOLIC ACID (THCA) SYNTHASE VARIANTS, AND MANUFACTURE AND USE THEREOF**

[54] **VARIANTS DE SYNTHASE DE L'ACIDE TETRAHYDROCANNABINOLIQUE (THCA), PRODUCTION ET UTILISATION DE CEUX-CI**

[72] BAINES, JASLEEN, US
[72] TYURIN, OLEG, US
[72] KAVARANA, MALCOLM J., US
[72] SUN, MINGYANG, US
[71] TEEWINOT LIFE SCIENCES CORPORATION, US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/058944)
[87] (WO2022/103938)
[30] US (63/113,240) 2020-11-13

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| <p style="text-align: center;">[21] 3,198,479 [13] A1</p> <p>[51] Int.Cl. C12Q 1/6886 (2018.01) [25] EN</p> <p>[54] PANEL OF MIRNA BIOMARKERS FOR DIAGNOSIS OF OVARIAN CANCER, METHOD FOR IN VITRO DIAGNOSIS OF OVARIAN CANCER, USES OF PANEL OF MIRNA BIOMARKERS FOR IN VITRO DIAGNOSIS OF OVARIAN CANCER AND TEST FOR IN VITRO DIAGNOSIS OF OVARIAN CANCER</p> <p>[54] PANEL DE BIOMARQUEURS D'ARNMI DE DIAGNOSTIC DU CANCER DE L'OVAIRE, METHODE DE DIAGNOSTIC IN VITRO DU CANCER DE L'OVAIRE, UTILISATIONS DE PANEL DE BIOMARQUEURS D'ARNMI DE DIAGNOSTIC IN VITRO DU CANCER DE L'OVAIRE ET TEST DE DIAGNOSTIC IN VITRO DU CANCER DE L'OVAIR</p> <p>[72] NIEMIRA, MAGDALENA, PL [72] EROL, ANNA, PL [72] KR?TOWSKI, JACEK ADAM, PL [71] UNIWERSYTET MEDYCZNY W BIA?YMSTOKU, PL [85] 2023-05-11 [86] 2021-11-11 (PCT/PL2021/050079) [87] (WO2022/103287) [30] PL (P.435967) 2020-11-12</p> | <p style="text-align: center;">[21] 3,198,485 [13] A1</p> <p>[51] Int.Cl. C07C 67/14 (2006.01) A23K 20/105 (2016.01) C07C 45/62 (2006.01) C07C 45/79 (2006.01) C07C 45/80 (2006.01) C07C 45/81 (2006.01) C07C 49/713 (2006.01) C07C 49/743 (2006.01) C07C 67/56 (2006.01) C07C 69/16 (2006.01) C07C 69/28 (2006.01)</p> <p>[25] EN</p> <p>[54] A PRODRUG OF A HEXAHYDRO-.BETA.-ACID COMPOUND, FEED COMPOSITION THEREOF, AND USE THEREOF</p> <p>[54] COMPOSE PRECURSEUR DE COMPOSE DE COMPOSANT HEXAHYDRO-BETA-ACIDE, COMPOSITION DE CHARGE ET SON UTILISATION</p> <p>[72] PENG, XIANFENG, CN [71] WISORIG TECHNOLOGIES PTE. LIMITED, SG [85] 2023-05-11 [86] 2021-09-26 (PCT/CN2021/120638) [87] (WO2022/022752) [30] CN (202011314243.4) 2020-11-20</p> | <p style="text-align: center;">[21] 3,198,487 [13] A1</p> <p>[51] Int.Cl. C10G 45/72 (2006.01) E21B 41/00 (2006.01) E21B 43/00 (2006.01) G01N 33/22 (2006.01) G01N 33/26 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD AND SYSTEMS FOR REAL-TIME MEASUREMENT OF REID VAPOR PRESSURE IN FLUIDS</p> <p>[54] PROCEDE ET SYSTEMES POUR LA MESURE EN TEMPS REEL DE LA PRESSION DE VAPEUR REID DANS DES FLUIDES</p> <p>[72] BAAREN, SANDER, US [72] MALONE, RYAN, US [72] RASMUSSEN, ERIC, US [72] ASPEREN, VICTOR VAN, US [71] FMC TECHNOLOGIES, INC., US [85] 2023-05-11 [86] 2021-11-05 (PCT/US2021/058168) [87] (WO2022/103657) [30] US (63/113,661) 2020-11-13</p> |
| <p style="text-align: center;">[21] 3,198,486 [13] A1</p> <p>[51] Int.Cl. G09C 1/00 (2006.01) H04L 9/08 (2006.01)</p> <p>[25] EN</p> <p>[54] METHOD AND SERVER FOR DELEGATED QUANTUM COMPUTING USING A HARDWARE ENCLAVE</p> <p>[54] PROCEDE ET SERVEUR DE CALCUL QUANTIQUE DELEGUE UTILISANT UNE ENCLAVE MATERIELLE</p> <p>[72] MA, YAO, FR [72] KAPLAN, MARC, FR [71] VERIQLOUD, FR [71] SORBONNE UNIVERSITE, FR [71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR [85] 2023-05-11 [86] 2021-11-18 (PCT/EP2021/082062) [87] (WO2022/106503) [30] EP (20306398.7) 2020-11-18</p> | <p style="text-align: center;">[21] 3,198,488 [13] A1</p> <p>[51] Int.Cl. C12N 1/16 (2006.01) C12N 15/52 (2006.01) C12P 7/42 (2006.01)</p> <p>[25] EN</p> <p>[54] CANNABIDIOLIC ACID (CBDA) SYNTHASE VARIANTS, AND MANUFACTURE AND USE THEREOF</p> <p>[54] VARIANTS DE SYNTHASE DE L'ACIDE CANNABIDIOLIQUE (CBDA), PRODUCTION ET UTILISATION DE CEUX-CI</p> <p>[72] BAINES, JASLEEN, US [72] TYURIN, OLEG, US [72] KAVARANA, MALCOLM J., US [72] SUN, MINGYANG, US [71] TEEWINOT LIFE SCIENCES CORPORATION, US [85] 2023-05-11 [86] 2021-11-11 (PCT/US2021/058964) [87] (WO2022/103950) [30] US (63/113,274) 2020-11-13</p> | |

PCT Applications Entering the National Phase

[21] **3,198,489**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01)**
[25] EN
[54] **RAPIDLY INFUSING CANNABINOID COMPOSITIONS, PROCESSES OF MANUFACTURE, AND METHODS OF USE**
[54] **COMPOSITIONS DE CANNABINOIDE A PENETRATION RAPIDE, PROCEDES DE FABRICATION ET METHODES D'UTILISATION**
[72] MILETO, VINCENT T., US
[72] RIDALL, MARK, US
[72] WINSLOW, SIMON, US
[71] ORCOSA INC., US
[85] 2023-05-11
[86] 2021-11-04 (PCT/US2021/058061)
[87] (WO2022/103650)
[30] US (63/114,181) 2020-11-16
[30] US (63/114,194) 2020-11-16
[30] US (63/147,453) 2021-02-09
[30] US (17/225,738) 2021-04-08
[30] US (63/172,343) 2021-04-08
[30] US (63/172,362) 2021-04-08
[30] US (63/172,368) 2021-04-08
[30] US (63/172,386) 2021-04-08
[30] US (63/180,193) 2021-04-27

[21] **3,198,490**
[13] A1

[51] **Int.Cl. G06N 10/70 (2022.01) G06N 10/20 (2022.01)**
[25] EN
[54] **VIRTUAL DISTILLATION FOR QUANTUM ERROR MITIGATION**
[54] **DISTILLATION VIRTUELLE POUR ATTENUATION D'ERREUR QUANTIQUE**
[72] HUGGINS, WILLIAM, US
[72] MCCLEAN, JARROD RYAN, US
[71] GOOGLE LLC, US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/058958)
[87] (WO2022/103945)
[30] US (63/112,593) 2020-11-11

[21] **3,198,491**
[13] A1

[51] **Int.Cl. C12N 9/02 (2006.01) C12N 9/10 (2006.01) C12N 15/81 (2006.01)**
[25] EN
[54] **COMPOSITION FOR MOLD REMEDIATION**
[54] **COMPOSITION D'ELIMINATION DES MOISSURES**
[72] PODLIPSKIY, VLADIMIR, US
[71] MOLD GUARD INC., CA
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/059089)
[87] (WO2022/104023)
[30] US (63/113,442) 2020-11-13

[21] **3,198,493**
[13] A1

[51] **Int.Cl. A61K 35/02 (2015.01)**
[25] EN
[54] **CLAY COMPOSITIONS AND METHODS FOR IMPROVING ANIMAL PERFORMANCE**
[54] **COMPOSITIONS D'ARGILE ET PROCEDES D'AMELIORATION DES PERFORMANCES D'UN ANIMAL**
[72] FRIESEN, KIM, US
[72] SONG, RAN, US
[72] HAGEN, CHAD, US
[72] HANSEN, JEFF, US
[71] ELANCO US INC., US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/059038)
[87] (WO2022/103996)
[30] US (63/112,558) 2020-11-11

[21] **3,198,494**
[13] A1

[51] **Int.Cl. A62B 35/00 (2006.01)**
[25] EN
[54] **FALL CONTROL SYSTEM AND METHOD OF CONTROLLING A MOVEMENT DURING FALL EVENT**
[54] **SYSTEME DE COMMANDE DE CHUTE ET PROCEDE DE COMMANDE D'UN MOUVEMENT**
[72] BURKE, BRADLEY, US
[71] 2INNOVATE LLC, US
[85] 2023-05-11
[86] 2021-11-19 (PCT/IB2021/060726)
[87] (WO2022/107051)
[30] US (16/952,839) 2020-11-19

[21] **3,198,495**
[13] A1

[51] **Int.Cl. F16L 11/08 (2006.01) F16L 11/16 (2006.01) F16L 59/153 (2006.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR INTELLIGENT COMPOSITE RENEWAL SYSTEM FOR STANDALONE, STORAGE, AND RENEWED PIPELINES, INCLUDING FOR REDUCED CARBON EMISSION AND FOR CONVERSION OF IN PLACE PIPELINES FOR CONVEYANCE OF HYDROGEN AND OTHER CLEAN FUEL**
[54] **PROCEDES ET MATERIAUX POUR UN SYSTEME DE RENOUVELLEMENT COMPOSITE INTELLIGENT POUR DES PIPELINES AUTONOMES, DE STOCKAGE ET RENOUEVES, NOTAMMENT POUR REDUIRE LES EMISSIONS DE CARBONE ET POUR CONVERTIR LES PIPELINES EN PLACE POUR LE TRANSPORT D'HYDROGENE ET D'AUTRES CARBURANTS PROPRE**
[72] WEISENBERG, KENT, US
[71] SAFEGUARD, LLC, US
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/059237)
[87] (WO2022/104134)
[30] US (63/112,711) 2020-11-12
[30] US (63/144,138) 2021-02-01
[30] US (63/232,355) 2021-08-12

[21] **3,198,497**
[13] A1

[51] **Int.Cl. F28C 1/00 (2006.01) F28F 25/08 (2006.01)**
[25] EN
[54] **TECHCLEAN DIRECT HEAT EXCHANGE FILL**
[54] **REPLISSAGE D'ECHANGE DE CHALEUR DIRECT TECHCLEAN**
[72] LIBERT, JEAN-PIERRE, US
[72] CARL, ANDREW, US
[72] REILLY, AARON, US
[71] EVAPCO, INC., US
[85] 2023-05-11
[86] 2022-02-07 (PCT/US2022/015472)
[87] (WO2022/170183)
[30] US (63/146,179) 2021-02-05
[30] US (63/146,579) 2021-02-06
[30] US (17/666,085) 2022-02-07

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[21] **3,198,498**
[13] A1

[51] **Int.Cl. G06F 21/44 (2013.01) H04W 8/24 (2009.01) H04L 41/0853 (2022.01)**

[25] EN

[54] **UNIVERSAL DEVICE IDENTIFIER SERVICE WITH ADJUSTED ATTRIBUTE DISTANCES**

[54] **SERVICE D'IDENTIFIANT UNIVERSEL DE DISPOSITIF A DISTANCES D'ATTRIBUTS AJUSTEES**

[72] OPUSHNYEV, IGOR, CA
[72] HEARTY, JOHN, CA
[72] LAPTEV, ANTON, CA
[71] MASTERCARD TECHNOLOGIES CANADA ULC, CA

[85] 2023-05-11
[86] 2021-11-12 (PCT/CA2021/051605)
[87] (WO2022/099415)
[30] US (63/113,576) 2020-11-13

[21] **3,198,499**
[13] A1

[51] **Int.Cl. B01J 21/18 (2006.01) C01B 32/312 (2017.01) C01B 32/318 (2017.01)**

[25] EN

[54] **BIOMASS PYROLYSIS INTEGRATED WITH BIO-REDUCTION OF METAL ORES, HYDROGEN PRODUCTION, AND/OR ACTIVATED- CARBON PRODUCTION**

[54] **PYROLYSE DE BIOMASSE INTEGREE A LA BIO-REDUCTION DE MINERAIS METALLIQUES, A LA PRODUCTION D'HYDROGENE, ET/OU A LA PRODUCTION DE CHARBON ACTIF**

[72] MENNELL, JAMES A., US
[72] DAUGAARD, DAREN, US
[72] SLACK, DUSTIN, US
[71] CARBON TECHNOLOGY HOLDINGS, LLC, US

[85] 2023-05-11
[86] 2021-11-19 (PCT/US2021/060053)
[87] (WO2022/109245)
[30] US (63/116,403) 2020-11-20
[30] US (63/130,460) 2020-12-24

[21] **3,198,500**
[13] A1

[51] **Int.Cl. C21B 15/00 (2006.01) C22B 3/00 (2006.01) C22B 3/08 (2006.01)**

[25] EN

[54] **INTEGRATION OF CARBON SEQUESTRATION WITH SELECTIVE HYDROMETALLURGICAL RECOVERY OF METAL VALUES**

[54] **INTEGRATION DE SEQUESTRATION DE CARBONE AVEC RECUPERATION HYDROMETALLURGIQUE SELECTIVE DE VALEURS METALLIQUES**

[72] LEY, JEREMY WILLIAM, FR
[72] DREISINGER, DAVID, CA
[71] NEGATIVE EMISSIONS MATERIALS, INC., US

[85] 2023-05-11
[86] 2021-11-26 (PCT/IB2021/061024)
[87] (WO2022/113025)
[30] US (63/118,677) 2020-11-26

[21] **3,198,502**
[13] A1

[51] **Int.Cl. B22F 3/04 (2006.01) B33Y 10/00 (2015.01) B33Y 40/20 (2020.01) B22F 10/60 (2021.01) B22F 3/10 (2006.01) B22F 3/22 (2006.01) C04B 35/622 (2006.01) C04B 35/634 (2006.01) C04B 35/638 (2006.01) C22C 1/04 (2023.01)**

[25] EN

[54] **METHOD FOR PRODUCING SHAPED BODIES BY SINTERING**

[54] **PROCEDE DE PRODUCTION DE CORPS FACONNES PAR FRITTAGE**

[72] SCHAPER, JOHANNES GERONIMO, DE
[72] JAECKEL, MANFRED, DE
[71] ELEMENT 22 GMBH, DE

[85] 2023-05-11
[86] 2021-10-27 (PCT/EP2021/079821)
[87] (WO2022/106166)
[30] EP (20208200.4) 2020-11-17

[21] **3,198,506**
[13] A1

[51] **Int.Cl. A23P 30/20 (2016.01) A23L 33/185 (2016.01) A23J 3/22 (2006.01) A23J 3/26 (2006.01)**

[25] EN

[54] **A PROCESS FOR PREPARING A CRISPY COATED EXTRUDED PLANT-BASED FOOD PRODUCT**

[54] **PROCEDE DE PREPARATION D'UN PRODUIT ALIMENTAIRE EXTRUDE A BASE VEGETALE, ENROBE ET CROUSTILLANT**

[72] BETZ, REINHOLD WILLY, DE
[72] HUTSCHENREUTER, SIMON ALEXANDER, US
[72] KURZ, KEVIN, DE
[72] MICHEL, MARTIN, CH
[72] PIBAROT, PATRICK, CH
[72] AMBUHL, MARK, CH
[72] WEISS, JOCHEN, DE
[72] HERRMANN, KURT, DE
[72] WENZEL, HANNES, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2023-05-11
[86] 2021-11-25 (PCT/EP2021/082927)
[87] (WO2022/112384)
[30] EP (20210207.5) 2020-11-27

[21] **3,198,507**
[13] A1

[51] **Int.Cl. A01D 45/06 (2006.01) B62D 53/02 (2006.01)**

[25] EN

[54] **PROCESSING MACHINE AND METHOD FOR PROCESSING FIBRE PLANTS**

[54] **MACHINE DE TRAITEMENT ET PROCEDE DE TRAITEMENT DE PLANTES A FIBRES**

[72] BAERT, NIELS, BE
[71] HYLER BV, BE

[85] 2023-05-11
[86] 2021-11-16 (PCT/IB2021/000780)
[87] (WO2022/106887)
[30] BE (2020/5831) 2020-11-17

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[21] **3,198,508**
[13] A1

[51] **Int.Cl. G01N 33/50 (2006.01)**
[25] EN
[54] **MONITORING MEMBRANE PROTEIN TRAFFICKING FOR DRUG DISCOVERY AND DRUG DEVELOPMENT**
[54] **SURVEILLANCE DU TRAFIC DE PROTEINES MEMBRANAIRES POUR LA DECOUVERTE DE MEDICAMENTS ET LE DEVELOPPEMENT DE MEDICAMENTS**
[72] MCCONNELL, BRADLEY K., US
[72] ALCARAZ, ARFAXAD REYES, US
[71] UNIVERSITY OF HOUSTON SYSTEM, US
[85] 2023-05-11
[86] 2021-11-01 (PCT/US2021/057525)
[87] (WO2022/108741)
[30] US (63/115,827) 2020-11-19

[21] **3,198,511**
[13] A1

[51] **Int.Cl. C12M 1/12 (2006.01) C12N 5/0783 (2010.01) C12N 5/00 (2006.01)**
[25] EN
[54] **MASS PROLIFERATION CULTURE METHOD OF NK CELLS**
[54] **PROCEDE DE CULTURE PAR PROLIFERATION MASSIVE DE CELLULES NK**
[72] KANG, DA WITT, KR
[72] KANG, HYUN CHUL, KR
[71] HANBIO CO., LTD., KR
[71] KANG, DA WITT, KR
[85] 2023-05-11
[86] 2021-05-10 (PCT/KR2021/005785)
[87] (WO2022/102887)
[30] KR (10-2020-0150118) 2020-11-11

[21] **3,198,512**
[13] A1

[51] **Int.Cl. B01D 61/02 (2006.01) B01D 67/00 (2006.01) B01D 71/64 (2006.01) C08G 73/18 (2006.01) C08J 3/24 (2006.01)**
[25] EN
[54] **A METHOD OF FORMING A CROSS-LINKED POLYMERIC MEMBRANE**
[54] **PROCEDE DE FORMATION D'UNE MEMBRANE POLYMERE RETICULEE**
[72] FARAHANI, MOHAMMAD
HOSSEIN DAVOOD ABADI, SG
[72] TAY, ALFRED JUN JIE, SG
[72] GOH, KENG SIANG, SG
[71] SEPPURE PTE LTD, SG
[85] 2023-05-11
[86] 2021-10-13 (PCT/SG2021/050616)
[87] (WO2022/103328)
[30] SG (10202011197T) 2020-11-11

[21] **3,198,513**
[13] A1

[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/32 (2006.01) A61N 1/36 (2006.01) C12M 1/42 (2006.01) C12N 13/00 (2006.01)**
[25] EN
[54] **PULSED ELECTRIC FIELD TREATMENT OF BIOLOGICAL CELLS**
[54] **TRAITEMENT PAR CHAMP ELECTRIQUE PULSE DE CELLULES BIOLOGIQUES**
[72] BUCHMANN, LEANDRO, CH
[71] BUHLER AG, CH
[85] 2023-05-11
[86] 2021-12-02 (PCT/EP2021/083976)
[87] (WO2022/122548)
[30] EP (20212860.9) 2020-12-09

[21] **3,198,514**
[13] A1

[51] **Int.Cl. C10M 145/14 (2006.01)**
[25] EN
[54] **COMPRESSOR OILS WITH HIGH VISCOSITY INDEX**
[54] **HUILES POUR COMPRESSEURS A INDICE DE VISCOSITE ELEVE**
[72] SCHIMMEL, THOMAS, CN
[72] MAHLING, FRANK-OLAF, DE
[72] VOIGT, LUCAS, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-05-11
[86] 2021-11-18 (PCT/EP2021/082100)
[87] (WO2022/106519)
[30] EP (20208466.1) 2020-11-18

[21] **3,198,515**
[13] A1

[51] **Int.Cl. B60C 25/05 (2006.01) B60C 25/01 (2006.01) B60C 25/132 (2006.01) B66C 1/54 (2006.01)**
[25] EN
[54] **ROBOTIC CELL SYSTEM FOR BALANCING A WHEEL AND TIRE ASSEMBLY**
[54] **SYSTEME DE CELLULE ROBOTIQUE DESTINE A EQUILIBRER UN ENSEMBLE ROUE ET PNEU**
[72] CAMPBELL, TODD ALLEN, US
[72] EHLKE, DANIEL JONATHAN, US
[72] HASSAN, MOHAMAD DIB KASSEM, US
[72] MCCLAIN, ERIK LANCE KIRK, US
[72] SHAH, HARSH SURESH, US
[72] SKOMSKI, JEFFREY N., US
[72] SMILEY, KEITH MARTIN, US
[72] SMILEY, KEVIN DOUGLASS, US
[72] SMILEY, MIKE, US
[72] SCHWENN, DON, US
[72] ZOLLER, PATRICK W., US
[71] INTERNATIONAL WHEEL & TIRE COMPANY, US
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/059176)
[87] (WO2022/104085)
[30] US (63/113,148) 2020-11-12

[21] **3,198,517**
[13] A1

[51] **Int.Cl. B65H 1/02 (2006.01) B65H 1/30 (2006.01) B65H 5/00 (2006.01)**
[25] EN
[54] **AUTOMATIC MAGAZINE LOADER FOR SUPPLYING CARTON BLANKS TO CARTON MAGAZINE**
[54] **CHARGEUR AUTOMATIQUE DE MAGASIN POUR L'ALIMENTATION D'EBAUCHES DE CARTON DANS UN MAGASIN DE CARTONS**
[72] SCHWAB, JOSEPH R., US
[72] ROHRET, RICHARD DEAN, US
[72] HILL, STEPHEN T., US
[71] R.A. JONES & CO. INC., US
[85] 2023-05-11
[86] 2021-11-15 (PCT/US2021/059411)
[87] (WO2022/104225)
[30] US (63/113,355) 2020-11-13

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[21] **3,198,518**
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **COUPLING ASSEMBLY**
[54] **ENSEMBLE D'ACCOUPLLEMENT**
[72] VAUGHAN, ALLEN, AU
[71] AVTRU PTY LTD, AU
[71] PEXAN PTY LTD, AU
[85] 2023-05-11
[86] 2021-12-06 (PCT/AU2021/051451)
[87] (WO2022/120412)
[30] AU (2020904627) 2020-12-11
[30] AU (2021903707) 2021-11-17

[21] **3,198,519**
[13] A1

[51] **Int.Cl. A23K 50/00 (2016.01) A23L 33/00 (2016.01) A23L 33/20 (2016.01)**
[25] EN
[54] **METHODS OF INTERNMENT CALORIC RESTRICTION FOR IMPARTING HEALTH BENEFITS TO AN ANIMAL**
[54] **PROCEDES DE RESTRICTION CALORIQUE INTERMITTENTE POUR CONFERER DES BIENFAITS POUR LA SANTE A UN ANIMAL**
[72] PAN, YUANLONG, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2023-05-11
[86] 2021-11-17 (PCT/IB2021/060669)
[87] (WO2022/118130)
[30] US (63/120,777) 2020-12-03

[21] **3,198,520**
[13] A1

[51] **Int.Cl. B01J 38/48 (2006.01) B01J 23/85 (2006.01) B01J 23/882 (2006.01) B01J 23/92 (2006.01) B01J 23/94 (2006.01) B01J 37/02 (2006.01) B01J 37/20 (2006.01) B01J 37/28 (2006.01) B01J 38/62 (2006.01) C10G 11/02 (2006.01) C10G 45/08 (2006.01) C10G 47/12 (2006.01)**
[25] FR
[54] **METHOD FOR REJUVENATING A CATALYST FROM A HYDROPROCESSING AND/OR HYDROCRACKING PROCESS**
[54] **PROCEDE DE REJUVENATION D'UN CATALYSEUR D'UN PROCEDE D'HYDROTRAITEMENT ET/OU D'HYDROCRAQUAGE**
[72] DEVERS, ELODIE, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2023-05-11
[86] 2021-12-02 (PCT/EP2021/083868)
[87] (WO2022/128486)
[30] FR (FR2013244) 2020-12-15

[21] **3,198,523**
[13] A1

[51] **Int.Cl. F25D 11/00 (2006.01)**
[25] EN
[54] **AUTONOMOUS PORTABLE REFRIGERATION UNIT**
[54] **UNITE DE REFRIGERATION PORTATIVE AUTONOME**
[72] BARG, WILLIAM, US
[72] BRIDGEWATER, CHRISTOPHER, US
[72] FUTCH, ROBERT, US
[72] LEIJA, MONTGOMERY, US
[71] DELTA DEVELOPMENT TEAM, INC., US
[85] 2023-05-11
[86] 2021-11-09 (PCT/US2021/058553)
[87] (WO2022/103723)
[30] US (63/112,525) 2020-11-11

[21] **3,198,524**
[13] A1

[51] **Int.Cl. A61F 2/16 (2006.01)**
[25] EN
[54] **HAPTIC MANAGEMENT FOR DELIVERY OF INTRAOCULAR IMPLANTS**
[54] **GESTION HAPTIQUE POUR LA POSE D'IMPLANTS INTRAOCULAIRES**
[72] LEE, IV JESTWIN EDWIN, US
[72] JENSEN, KATHRYN, US
[72] TABER, TODD, US
[72] WU, YINGHUI, US
[72] YADAV, SAUMYA DILIP, US
[72] CHAUHAN, ANUBHAV, US
[71] ALCON INC., CH
[85] 2023-05-11
[86] 2021-12-02 (PCT/IB2021/061246)
[87] (WO2022/118249)
[30] US (63/120,955) 2020-12-03

[21] **3,198,526**
[13] A1

[51] **Int.Cl. C12N 9/02 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **CHEMICAL MODIFICATIONS FOR INHIBITING EXPRESSION OF ALDH2**
[54] **MODIFICATIONS CHIMIQUES POUR INHIBER L'EXPRESSION DE ALDH2**
[72] BROWN, BOB DALE, US
[72] DUDEK, HENRYK T., US
[72] SAXENA, UTSAV, US
[71] DICERNA PHARMACEUTICALS, INC., US
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/072370)
[87] (WO2022/104366)
[30] US (63/113,689) 2020-11-13

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[21] **3,198,527**
[13] A1

[25] EN
[54] **COPY PREVENTION OF DIGITAL SAMPLE IMAGES**
[54] **PREVENTION DE COPIE D'IMAGES D'ECHANTILLONS NUMERIQUES**
[72] HALLOCK, JOHN SCOTT, US
[72] BIGARE, PASCALE, BE
[72] CHOSSON, SYLVAIN, CH
[72] BELLINI, CLAUDIO, IT
[72] EICHENBERGER, MARTIN, CH
[72] SCHULZ, ELISABETH, DE
[71] EUROPEAN CENTRAL BANK, DE
[85] 2023-05-11
[86] 2021-05-25 (PCT/EP2021/063914)
[87] (WO2022/111864)
[30] EP (20209547.7) 2020-11-24

[21] **3,198,528**
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) H01M 4/02 (2006.01) H01M 4/04 (2006.01) H01M 4/38 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **MULTI-STEP PROCESS FOR MAKING CATHODE ACTIVE MATERIALS, AND CATHODE ACTIVE MATERIALS**
[54] **PROCEDE EN PLUSIEURS ETAPES POUR LA FABRICATION DE MATERIAUX ACTIFS DE CATHODE, ET MATERIAUX ACTIFS DE CATHODE**
[72] SOMMER, HEINO, DE
[72] RIEWALD, FELIX FLORIAN, DE
[72] KURZHALS, PHILIPP, DE
[71] BASF SE, DE
[85] 2023-05-11
[86] 2021-11-10 (PCT/EP2021/081174)
[87] (WO2022/106268)
[30] EP (20209036.1) 2020-11-20

[21] **3,198,529**
[13] A1

[51] **Int.Cl. A61B 5/0205 (2006.01) A61F 5/56 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **MAXILLARY AND MANDIBULAR DEVICES, CONTROLLER STATION**
[54] **DISPOSITIFS MAXILLAIRES ET MANDIBULAIRES, POSTE DE COMMANDE**
[72] GHUGE, RAGHAVENDRA VITTHALRAO, US
[71] SLEEP SOLUTIONS OF TEXAS, LLC, US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/072355)
[87] (WO2022/104354)
[30] US (17/098,355) 2020-11-14

[21] **3,198,530**
[13] A1

[51] **Int.Cl. B65B 9/087 (2012.01) B31B 70/64 (2017.01) B29C 65/22 (2006.01) B65B 51/30 (2006.01)**
[25] EN
[54] **SUSTAINABLE FILM POUCH MACHINE**
[54] **MACHINE A SACHETS A FILM DURABLE**
[72] VANIGLIA, MILO M., US
[72] KALANY, ROBERT M., US
[71] R.A. JONES & CO., US
[85] 2023-05-11
[86] 2021-11-15 (PCT/US2021/059353)
[87] (WO2022/104192)
[30] US (63/113,343) 2020-11-13

[21] **3,198,531**
[13] A1

[51] **Int.Cl. C21B 13/00 (2006.01) F27D 99/00 (2010.01) C21B 13/02 (2006.01) C25B 1/04 (2021.01) F27D 3/10 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF CARBURIZED SPONGE IRON**
[54] **PROCEDE DE PRODUCTION DE FER SPONGIEUX CEMENTE**
[72] MOHSENI-MORNER, FARZAD, SE
[72] FAYAZI, JAVAD, SE
[71] HYBRIT DEVELOPMENT AB, SE
[85] 2023-05-11
[86] 2021-11-24 (PCT/SE2021/051173)
[87] (WO2022/115024)
[30] SE (2051376-8) 2020-11-25

[21] **3,198,533**
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A24B 15/42 (2006.01) A61K 31/465 (2006.01)**
[25] EN
[54] **NICOTINE POUCH COMPOSITION**
[54] **COMPOSITION DE SACHET DE NICOTINE**
[72] NIELSEN, KENT ALBIN, DK
[72] POULSEN, JESSIE, DK
[72] STAHL, MY LY LAO, DK
[72] JAKOBSEN, BINE HARE, DK
[71] PHILIP MORRIS PRODUCTS S.A., CH
[85] 2023-05-11
[86] 2021-11-16 (PCT/DK2021/050334)
[87] (WO2022/100805)
[30] EP (20207822.6) 2020-11-16
[30] US (17/099,446) 2020-11-16

[21] **3,198,536**
[13] A1

[51] **Int.Cl. G01B 7/16 (2006.01) G01L 1/22 (2006.01)**
[25] FR
[54] **INORGANIC STRAIN GAUGE**
[54] **JAUGE D'EXTENSOMETRIE INORGANIQUE**
[72] FENDLER, MANUEL, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2023-05-11
[86] 2021-11-16 (PCT/EP2021/081780)
[87] (WO2022/101494)
[30] FR (FR2011737) 2020-11-16

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[21] **3,198,538**
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 9/51 (2006.01) A61K 39/00 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **ENHANCED FORMULATION STABILIZATION AND IMPROVED LYOPHILIZATION PROCESSES**

[54] **PROCEDES DE STABILISATION AMELIOREE DE FORMULATIONS ET DE LYOPHILISATION AMELIOREE**

[72] BHATNAGAR, BAKUL SUBODH, US

[72] DARVARI, RAMIN, US

[72] LUTHRA, SUMIT, US

[72] TCHESALOV, SERGUEI, US

[72] PANZNER, STEFFEN, DE

[72] REINSCH, CHRISTIAN, DE

[72] THANKI, KAUSHIK, DE

[72] SOMANI, SUKRUT, DE

[71] BIONTECH SE, DE

[85] 2023-05-11

[86] 2021-11-15 (PCT/EP2021/081625)

[87] (WO2022/101461)

[30] US (63/114,478) 2020-11-16

[30] US (63/115,128) 2020-11-18

[30] US (63/115,588) 2020-11-18

[30] US (63/135,723) 2021-01-10

[30] US (63/149,372) 2021-02-15

[21] **3,198,540**
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01)**

[25] EN

[54] **COMPENSATING FOR DISTORTION OF IMAGES OF AN EYE FOR A SURGICAL PROCEDURE**

[54] **COMPENSATION DE LA DISTORSION D'IMAGES D'UN OEIL POUR UNE INTERVENTION CHIRURGICALE**

[72] ABRAHAM, MARIO, DE

[72] WITTNEBEL, MICHAEL, DE

[72] RUBIN-SCHWARZ, FRIEDERIKE, DE

[72] GOOS, EVI, DE

[71] ALCON INC., CH

[85] 2023-05-11

[86] 2021-12-09 (PCT/IB2021/061510)

[87] (WO2022/130138)

[30] US (63/126,293) 2020-12-16

[21] **3,198,542**
[13] A1

[51] **Int.Cl. B29B 17/02 (2006.01) C08J 11/08 (2006.01)**

[25] FR

[54] **METHOD FOR TREATING WASTE PLASTICS BY POLYMER DISSOLUTION AND ADSORPTION PURIFICATION**

[54] **PROCEDE DE TRAITEMENT DE PLASTIQUES USAGES PAR DISSOLUTION DES POLYMERES ET PURIFICATION PAR ADSORPTION**

[72] WEISS, WILFRIED, FR

[72] LEINEKUGEL LE COCQ, DAMIEN, FR

[72] SIBEAUD, MATHILDE, FR

[72] AHMADI-MOTLAGH, AMIR HOSSEIN, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2023-05-11

[86] 2021-12-02 (PCT/EP2021/083873)

[87] (WO2022/128490)

[30] FR (FR2013161) 2020-12-14

[21] **3,198,544**
[13] A1

[51] **Int.Cl. A23C 9/142 (2006.01) A23L 33/10 (2016.01) A23L 33/115 (2016.01) A61P 19/08 (2006.01)**

[25] EN

[54] **METHODS OF INCREASING HEIGHT AND PROMOTING LINEAR BONE GROWTH**

[54] **PROCEDES D'AUGMENTATION DE LA TAILLE ET DE PROMOTION DE LA CROISSANCE OSSEUSE LINEAIRE**

[72] LOPEZ PEDROSA, JOSE MARIA, ES

[72] RUEDA CABRERA, RICARDO, ES

[72] GARCIA MARTINEZ, JORGE, ES

[71] ABBOTT LABORATORIES, US

[85] 2023-05-11

[86] 2021-11-17 (PCT/US2021/059599)

[87] (WO2022/108956)

[30] EP (20383006.2) 2020-11-18

[21] **3,198,545**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/137 (2006.01)**

[25] EN

[54] **AN ACCESS STATION FOR AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM WITH CONTAINER TILT FUNCTIONALITY AND A METHOD FOR USING SAME**

[54] **STATION D'ACCES POUR SYSTEME AUTOMATISE DE STOCKAGE ET DE RECUPERATION AVEC FONCTIONNALITE D'INCLINAISON DE CONTENANT ET SON PROCEDE D'UTILISATION**

[72] AUSTRHEIM, TROND, NO

[71] AUTOSTORE TECHNOLOGY AS, NO

[85] 2023-05-11

[86] 2021-11-10 (PCT/EP2021/081308)

[87] (WO2022/106287)

[30] NO (20201252) 2020-11-17

[21] **3,198,547**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01)**

[25] EN

[54] **RAPIDLY INFUSING PLATFORM AND COMPOSITIONS FOR THERAPEUTIC TREATMENT IN HUMANS**

[54] **PLATE-FORME D'INFUSION RAPIDE ET COMPOSITIONS POUR UN TRAITEMENT THERAPEUTIQUE CHEZ LES HUMAINS**

[72] RIDALL, MARK, US

[72] MILETO, VINCENT T., US

[72] WINSLOW, SIMON, US

[71] ORCOSA INC., US

[85] 2023-05-11

[86] 2021-11-03 (PCT/US2021/057915)

[87] (WO2022/103635)

[30] US (63/114,181) 2020-11-16

[30] US (63/114,194) 2020-11-16

[30] US (63/147,453) 2021-02-09

[30] US (17/225,738) 2021-04-08

[30] US (63/172,343) 2021-04-08

[30] US (63/172,362) 2021-04-08

[30] US (63/172,368) 2021-04-08

[30] US (63/172,386) 2021-04-08

[30] US (63/180,193) 2021-04-27

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[21] **3,198,548**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/137 (2006.01)**
[25] EN
[54] **AN ACCESS STATION FOR AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM WITH CONTAINER TRANSFER FUNCTIONALITY AND A METHOD FOR USING SAME**
[54] **STATION D'ACCES POUR SYSTEME DE STOCKAGE ET DE RECUPERATION AUTOMATISE AVEC FONCTIONNALITE DE TRANSFERT DE RECIPIENT ET SON PROCEDE D'UTILISATION**
[72] AUSTRHEIM, TROND, NO
[71] AUTOSTORE TECHNOLOGY AS, NO
[85] 2023-05-11
[86] 2021-11-10 (PCT/EP2021/081307)
[87] (WO2022/106286)
[30] NO (20201250) 2020-11-17

[21] **3,198,550**
[13] A1

[51] **Int.Cl. C07D 498/10 (2006.01) A61K 31/537 (2006.01) A61K 31/5377 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **PLASMA KALLIKREIN INHIBITORS**
[54] **INHIBITEURS DE KALLICREINE PLASMATIQUE**
[72] BAO, JIANMING, US
[72] CERNAKA, NATALIJA, US
[72] CHENG, ALAN C., US
[72] GAO, YING-DUO, US
[72] JABRI, SALMAN, US
[72] LOPEZ, JOVAN ALEXANDER, US
[72] MERCHANT, ROHAN, US
[72] OGAWA, ANTHONY KEN, US
[72] OSLER, SKYLAR K., US
[72] SINZ, CHRISTOPHER J., US
[72] SHARP, PHILLIP PATRICK, US
[72] TANG, HAIQUN, US
[72] TIAN, MAOQUN, US
[72] XIAO, DONG, US
[72] YANG, SONG, US
[71] MERCK SHARP & DOHME LLC, US
[85] 2023-05-11
[86] 2021-11-18 (PCT/US2021/059930)
[87] (WO2022/109161)
[30] US (63/115,890) 2020-11-19

[21] **3,198,551**
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01)**
[25] EN
[54] **MULTI-RACK IMMERSION COOLING DISTRIBUTION SYSTEM**
[54] **SYSTEME DE DISTRIBUTION DE REFROIDISSEMENT PAR IMMERSION A GRILLES MULTIPLES**
[72] MCMANIS, ALEX, US
[72] BOYD, JAMES JOHN, US
[72] SENECA, DAVID NATHAN, US
[71] GREEN REVOLUTION COOLING, INC., US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/058991)
[87] (WO2022/103969)
[30] US (63/112,745) 2020-11-12
[30] US (63/119,771) 2020-12-01
[30] US (17/523,403) 2021-11-10

[21] **3,198,552**
[13] A1

[51] **Int.Cl. B29B 17/02 (2006.01) C08J 11/08 (2006.01)**
[25] FR
[54] **METHOD FOR TREATING WASTE PLASTICS BY POLYMER DISSOLUTION AND PURIFICATION BY EXTRACTION**
[54] **PROCEDE DE TRAITEMENT DE PLASTIQUES USAGES PAR DISSOLUTION DES POLYMERES ET PURIFICATION PAR EXTRACTION**
[72] LEINEKUGEL LE COCQ, DAMIEN, FR
[72] WEISS, WILFRIED, FR
[72] SIBEAUD, MATHILDE, FR
[72] AUGIER, FREDERIC, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2023-05-11
[86] 2021-12-02 (PCT/EP2021/083869)
[87] (WO2022/128487)
[30] FR (FR2013159) 2020-12-14

[21] **3,198,553**
[13] A1

[51] **Int.Cl. B60C 11/03 (2006.01) B60C 9/00 (2006.01) B60C 9/18 (2006.01) B60C 11/11 (2006.01)**
[25] FR
[54] **TYRE COMPRISING A TREAD LAYER OF TEXTILE REINFORCEMENT ELEMENTS**
[54] **PNEUMATIQUE COMPORTANT UNE BANDE DE ROULEMENT COMPORTANT AU MOINS UNE COUCHE D'ELEMENTS DE REINFORCEMENT TEXTILES**
[72] HEBERT, STEPHANE, FR
[72] FOURNIER, OREL, FR
[72] MANSUY, PHILIPPE, FR
[72] BESTGEN, LUC, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2023-05-11
[86] 2021-11-15 (PCT/FR2021/052007)
[87] (WO2022/123131)
[30] FR (FR2013047) 2020-12-11

[21] **3,198,554**
[13] A1

[51] **Int.Cl. B60C 11/03 (2006.01) B60C 9/00 (2006.01) B60C 11/11 (2006.01)**
[25] FR
[54] **TIRE, THE TREAD OF WHICH COMPRISES ORIENTED FIBERS**
[54] **PNEUMATIQUE DONT LA BANDE DE ROULEMENT COMPORTE DES FIBRES ORIENTEES**
[72] MANSUY, PHILIPPE, FR
[72] GUELON, SANDRA, FR
[72] HEBERT, STEPHANE, FR
[72] DAYET, PATRICK, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2023-05-11
[86] 2021-11-15 (PCT/FR2021/052008)
[87] (WO2022/123132)
[30] FR (FR2013050) 2020-12-11

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[21] **3,198,555**
[13] A1

[51] **Int.Cl. B01D 9/02 (2006.01) B01D 9/04 (2006.01) C01D 3/06 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD OF TREATING BRINES**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT DE SAUMURES**

[72] SMITH, BRUCE, AU

[71] EVERFLO AUSTRALIA PTY LTD, AU

[85] 2023-05-11

[86] 2021-11-11 (PCT/AU2021/051340)

[87] (WO2022/099370)

[30] AU (2020904137) 2020-11-11

[21] **3,198,556**
[13] A1

[51] **Int.Cl. B29B 17/02 (2006.01) C08J 11/08 (2006.01)**

[25] FR

[54] **METHOD FOR TREATING USED PLASTICS BY DISSOLVING THE POLYMERS AND PURIFYING THEM BY WASHING**

[54] **PROCEDE DE TRAITEMENT DE PLASTIQUES USAGES PAR DISSOLUTION DES POLYMERES ET PURIFICATION PAR LAVAGE**

[72] LEINEKUGEL LE COCQ, DAMIEN, FR

[72] WEISS, WILFRIED, FR

[72] AHMADI-MOTLAGH, AMIR HOSSEIN, FR

[72] HAROUN, YACINE, FR

[71] IFP ENERGIES NOUVELLES, FR

[85] 2023-05-11

[86] 2021-12-02 (PCT/EP2021/083871)

[87] (WO2022/128488)

[30] FR (FR2013160) 2020-12-14

[21] **3,198,557**
[13] A1

[51] **Int.Cl. A23K 10/16 (2016.01) C12N 1/12 (2006.01) C12P 7/64 (2022.01)**

[25] EN

[54] **NOVEL SCHIZOCHYTRIUM SP. STRAIN AND POLYUNSATURATED FATTY ACID PRODUCTION METHOD USING SAME**

[54] **NOUVELLE SOUCHE SCHIZOCHYTRIUM SP. ET PROCEDE DE PRODUCTION D'ACIDES GRAS POLYINSATURES L'UTILISANT**

[72] CHOI, JUNG WOON, KR

[72] JANG, SUNG HOON, KR

[72] KIM, JI YOUNG, KR

[72] SHIN, WON SUB, KR

[72] KANG, HAE WON, KR

[71] CJ CHEILJEDANG CORPORATION, KR

[85] 2023-05-11

[86] 2021-11-08 (PCT/KR2021/016156)

[87] (WO2022/124590)

[30] KR (10-2020-0169850) 2020-12-07

[21] **3,198,558**
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01)**

[25] EN

[54] **ADDITIVES FOR REDUCING NON-SPECIFIC INTERACTIONS BETWEEN FLUORESCENT POLYMER CONJUGATES AND CELLS IN A BIOLOGICAL SAMPLE**

[54] **ADJUVANTS DE REDUCTION D'INTERACTIONS NON SPECIFIQUES ENTRE DES CONJUGUES POLYMERES FLUORESCENTS ET DES CELLULES D'UN ECHANTILLON BIOLOGIQUE**

[72] VENKATESH, RAJESH, US

[72] SRINIVASAN, SHIVA RANJINI, US

[72] MALLET DESIGNE, VALERIE, US

[72] MONSEAU, SYLVAIN, US

[72] BIECHELE, GERALDINE, US

[71] BECKMAN COULTER, INC., US

[85] 2023-05-11

[86] 2021-11-12 (PCT/US2021/059254)

[87] (WO2022/104147)

[30] US (63/113,703) 2020-11-13

[21] **3,198,559**
[13] A1

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

[25] EN

[54] **CRYSTAL FORM OF FREE BASE OF INHIBITOR CONTAINING BICYCLIC RING DERIVATIVE AND PREPARATION METHOD AND APPLICATION OF CRYSTAL FORM**

[54] **FORME CRISTALLINE D'UNE BASE LIBRE D'INHIBITEUR CONTENANT UN DERIVE A NOYAU BICYCLIQUE, PROCEDE DE PREPARATION ET UTILISATION DE LA FORME CRISTALLINE**

[72] DONG, HUA, CN

[72] YANG, LONG, CN

[72] GUO, LINSONG, CN

[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN

[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN

[85] 2023-05-11

[86] 2021-11-15 (PCT/CN2021/130725)

[87] (WO2022/100738)

[30] CN (202011271725.6) 2020-11-13

[30] CN (202111333586.X) 2021-11-11

[21] **3,198,562**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01)**

[25] EN

[54] **PRECISION OXYGEN FLOW CONTROL FOR ORGAN PERFUSION SYSTEMS**

[54] **REGULATION DE DEBIT D'OXYGENE DE PRECISION POUR DES SYSTEMES DE PERFUSION D'ORGANE**

[72] VOYCE, DANIEL, GB

[72] COUSSIOS, CONSTANTIN, GB

[71] ORGANOX LIMITED, GB

[85] 2023-05-11

[86] 2021-11-23 (PCT/GB2021/053026)

[87] (WO2022/112746)

[30] GB (2018460.2) 2020-11-24

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[21] **3,198,563**
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/57 (2020.01) H05B 6/06 (2006.01)**
[25] EN
[54] **TEMPERATURE ESTIMATION**
[54] **ESTIMATION DE TEMPERATURE**
[72] KORUS, ANTON, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2023-05-11
[86] 2021-11-30 (PCT/GB2021/053113)
[87] (WO2022/118005)
[30] GB (2018942.9) 2020-12-01

[21] **3,198,566**
[13] A1

[51] **Int.Cl. H02M 7/538 (2007.01) A24F 40/50 (2020.01)**
[25] EN
[54] **DISTANCE ESTIMATION**
[54] **ESTIMATION DE DISTANCE**
[72] KORUS, ANTON, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2023-05-11
[86] 2021-11-30 (PCT/GB2021/053114)
[87] (WO2022/118006)
[30] GB (2018945.2) 2020-12-01

[21] **3,198,570**
[13] A1

[51] **Int.Cl. A61C 8/00 (2006.01) G06T 19/00 (2011.01) A61C 9/00 (2006.01) A61C 13/00 (2006.01) A61C 19/05 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD OF DIGITAL WORKFLOW FOR SURGICAL AND RESTORATIVE DENTISTRY**
[54] **SYSTEME ET PROCEDE DE FLUX DE TRAVAIL NUMERIQUE POUR SOINS DE RESTAURATION ET DE CHIRURGIE DENTAIRES**
[72] MIRELEZ, JR. JOSE ARTHUR, US
[72] BYNUM, JEFFREY, US
[72] POLANCO, FERNANDO, US
[72] PUREWAL, CHANDEEP SINGH, US
[71] INSTARISA DIGITAL DENTAL TECHNOLOGIES, LLC, US
[85] 2023-05-11
[86] 2021-11-22 (PCT/US2021/060386)
[87] (WO2022/109412)
[30] US (63/117,283) 2020-11-23

[21] **3,198,571**
[13] A1

[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/5383 (2006.01) A61P 31/10 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **A PYRROLE DERIVATIVE, ITS PREPARATION METHOD AND USE**
[54] **DERIVE DE PYRROLE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] HUANG, SHENGHONG, CN
[72] YAO, RENCHONG, CN
[72] SONG, ZHIQUAN, CN
[72] YI, SHOUBING, CN
[72] YUAN, CHENGUANG, CN
[72] LI, YINGFU, CN
[71] SHENZHEN SUNGENING BIO-MEDICAL CO., LTD., CN
[71] CHENGDU HYPERWAY PHARMACEUTICALS CO., LTD., CN
[71] SHENZHEN HYPERWAY PHARMACEUTICALS CO., LTD., CN
[85] 2023-05-11
[86] 2021-10-27 (PCT/CN2021/126634)
[87] (WO2022/134837)
[30] CN (202011519683.3) 2020-12-21
[30] CN (202110573594.5) 2021-05-25

[21] **3,198,572**
[13] A1

[51] **Int.Cl. B60N 2/28 (2006.01)**
[25] EN
[54] **INDICATOR ASSEMBLY OF A SUPPORTING LEG DEVICE FOR A SAFETY SEAT AND SAFETY SEAT**
[54] **ENSEMBLE INDICATEUR D'UN DISPOSITIF DE PIED DE SUPPORT POUR UN SIEGE DE SECURITE ET SIEGE DE SECURITE**
[72] ZHANG, DALIANG, CH
[72] FANG, GANQING, CH
[71] BAMBINO PREZIOSO SWITZERLAND AG, CH
[85] 2023-05-11
[86] 2022-01-05 (PCT/EP2022/050159)
[87] (WO2022/148784)
[30] CN (202110006101.X) 2021-01-05

[21] **3,198,575**
[13] A1

[51] **Int.Cl. A61K 31/397 (2006.01) A61P 25/30 (2006.01) A61P 43/00 (2006.01) C07D 205/00 (2006.01) C07D 205/02 (2006.01) C07D 205/04 (2006.01)**
[25] EN
[54] **FORMULATIONS AND METHODS FOR TREATING ACUTE CANNABINOID OVERDOSE**
[54] **FORMULATIONS ET METHODES DE TRAITEMENT D'UNE SURDOSE AIGUE DE CANNABIOIDES**
[72] SCHWLER, JOSEPH FENTON, US
[72] SCHNEEBERGER, DANIEL PAWEL, US
[71] ANEBULO PHARMACEUTICALS, INC., US
[85] 2023-05-11
[86] 2021-11-17 (PCT/US2021/059747)
[87] (WO2022/109043)
[30] US (63/115,487) 2020-11-18

[21] **3,198,576**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 90/00 (2016.01) A61B 17/04 (2006.01) A61B 17/06 (2006.01)**
[25] EN
[54] **A SURGICAL DEVICE, A SYSTEM, AND A METHOD OF MANUFACTURING A SURGICAL DEVICE**
[54] **DISPOSITIF CHIRURGICAL, SYSTEME, ET PROCEDE DE FABRICATION D'UN DISPOSITIF CHIRURGICAL**
[72] BACHMANN, ELIAS, CH
[72] LI, XIANG, CH
[72] BANZET, POL, CH
[71] ZURIMED TECHNOLOGIES AG, CH
[85] 2023-05-11
[86] 2020-11-12 (PCT/EP2020/081887)
[87] (WO2022/100833)

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[21] **3,198,579**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **ANTI-MARCO ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-MARCO ET UTILISATIONS ASSOCIEES**

[72] JAHCHAN, NADINE, US

[72] STREULI, MICHEL, US

[72] YANG, XI, US

[72] LIANG, LINDA, US

[72] SRIRAM, VENKATARAMAN, US

[72] POLLACK, JOSHUA, US

[72] JURIC, VLADISLAVA, US

[72] HAEGGBLOM, LINNEA, US

[72] MOJICA, KARA, US

[72] PRESTA, LEONARD G., US

[72] MITRA, SAYANTAN, US

[71] PIONYR IMMUNOTHERAPEUTICS, INC., US

[85] 2023-05-11

[86] 2021-11-18 (PCT/US2021/059955)

[87] (WO2022/109178)

[30] US (63/115,272) 2020-11-18

[30] US (63/244,662) 2021-09-15

[21] **3,198,595**
[13] A1

[51] **Int.Cl. H01S 3/067 (2006.01)**

[25] EN

[54] **VERY LARGE MODE AREA SINGLE-MODE AMPLIFYING OPTICAL FIBER AND FIBER AMPLIFIER OR LASER INCORPORATING THE SAME**

[54] **FIBRE OPTIQUE D'AMPLIFICATION MONOMODE A TRES GRANDE ZONE DE MODE ET AMPLIFICATEUR DE FIBRE OU LASER L'INCORPORANT**

[72] PROVINO, LAURENT, FR

[72] TAUNAY, THIERRY, FR

[71] PHOTONICS BRETAGNE, FR

[85] 2023-05-12

[86] 2021-11-22 (PCT/EP2021/082451)

[87] (WO2022/112152)

[30] EP (20306434.0) 2020-11-24

[21] **3,198,599**
[13] A1

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

[25] EN

[54] **TISSUE-SPECIFIC NUCLEIC ACID DELIVERY BY 1,2-DIOLEOYL-3-TRIMETHYLAMMONIUM-PROPANE (DOTAP) LIPID NANOPARTICLES**

[54] **ADMINISTRATION D'ACIDE NUCLEIQUE SPECIFIQUE D'UN TISSU PAR DES NANOPARTICULES LIPIDIQUES DE 1,2-DIOLEOYL-3-TRIMETHYLAMMONIUM-PROPANE (DOTAP)**

[72] PATIL, VISHWESH ASHOK, US

[72] SARISOZEN, CAN, US

[72] GIBSON, MARCUS IAN, US

[72] GOMES COSTA, DANIEL FERREIRA, US

[71] OMEGA THERAPEUTICS, INC., US

[85] 2023-05-12

[86] 2021-12-15 (PCT/US2021/063555)

[87] (WO2022/132926)

[30] US (63/127,812) 2020-12-18

[21] **3,198,625**
[13] A1

[51] **Int.Cl. A61K 35/761 (2015.01) A61K 39/39 (2006.01) C12N 7/00 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **ONCOLYTIC VIRUS AND METHODS OF USE**

[54] **VIRUS ONCOLYTIQUE ET PROCEDES D'UTILISATION**

[72] SETH, PREM, US

[71] NORTHSHORE UNIVERSITY HEALTHSYSTEM, US

[85] 2023-05-12

[86] 2022-02-24 (PCT/US2022/017716)

[87] (WO2022/182884)

[30] US (63/154,118) 2021-02-26

[21] **3,198,680**
[13] A1

[51] **Int.Cl. A61H 9/00 (2006.01)**

[25] EN

[54] **SCAR SKIN MASSAGE DEVICE**

[54] **CUTANOSITIF DE MASSAGE CUTANE CICATRICIEL**

[72] L. TIGUERT, ELENITA, FR

[71] DREAMER, FR

[85] 2023-05-12

[86] 2021-11-10 (PCT/FR2021/051999)

[87] (WO2022/101585)

[30] FR (FR2011624) 2020-11-12

[21] **3,198,634**
[13] A1

[51] **Int.Cl. H01J 37/12 (2006.01) H01J 37/153 (2006.01) H01J 37/28 (2006.01)**

[25] EN

[54] **OBJECTIVE LENS ARRAY ASSEMBLY, ELECTRON-OPTICAL SYSTEM, ELECTRON-OPTICAL SYSTEM ARRAY, METHOD OF FOCUSING**

[54] **ENSEMBLE RESEAU DE LENTILLES D'OBJECTIF, SYSTEME ELECTRO-OPTIQUE, RESEAU DE SYSTEMES ELECTRO-OPTIQUES, PROCEDE DE FOCALISATION**

[72] WIELAND, MARCO JAN-JACO, NL

[71] ASML NETHERLANDS B.V., NL

[85] 2023-05-12

[86] 2021-11-03 (PCT/EP2021/080509)

[87] (WO2022/101072)

[30] EP (20207178.3) 2020-11-12

[30] EP (21166214.3) 2021-03-31

[30] EP (21191726.5) 2021-08-17

[21] **3,198,670**
[13] A1

[51] **Int.Cl. F21S 8/08 (2006.01) G06F 1/26 (2006.01) H02G 3/08 (2006.01)**

[25] EN

[54] **STREETLIGHT-BASED POWER TAP**

[54] **MULTIPRISE SUR REVERBERE**

[72] LEIZEROVICH, GUSTAVO DARIO, US

[72] AARON, IAN B., US

[72] NOBLES, CHARLES M., US

[71] UBICQUAIA, INC., US

[85] 2023-05-12

[86] 2021-11-22 (PCT/US2021/060381)

[87] (WO2022/109410)

[30] US (17/102,354) 2020-11-23

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[21] **3,198,683**
[13] A1

[51] **Int.Cl. C01B 39/48 (2006.01) C10G 45/64 (2006.01)**
[25] EN
[54] **METHOD OF SYNTHESIZING ALUMINUM-RICH MOLECULAR SIEVE OF *MRE FRAMEWORK TYPE**
[54] **METHODE DE SYNTHESE D'UN TAMIS MOLECULAIRE RICHE EN ALUMINIUM DE TYPE DE RESEAU *MRE**
[72] ANTHONIS, MARC H., BE
[72] SARTIPI, SINA, BE
[72] BURTON, ALLEN W., US
[72] WEIGEL, SCOTT J., US
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2023-05-12
[86] 2021-08-26 (PCT/US2021/047630)
[87] (WO2022/103468)
[30] US (63/113,627) 2020-11-13

[21] **3,198,688**
[13] A1

[51] **Int.Cl. H04W 84/12 (2009.01)**
[25] EN
[54] **METHOD FOR DETERMINING SPATIAL REUSE PARAMETER FIELD IN PPDU AND RELATED APPARATUS**
[54] **PROCEDE POUR DETERMINER UN CHAMP DE PARAMETRE DE REUTILISATION SPATIALE DANS UNE PPDU, ET APPAREIL ASSOCIE**
[72] YU, JIAN, CN
[72] GUO, YUCHEN, CN
[72] PAN, JINZHE, CN
[72] GAN, MING, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-05-12
[86] 2021-11-03 (PCT/CN2021/128374)
[87] (WO2022/100492)
[30] CN (202011263310.4) 2020-11-12

[21] **3,198,689**
[13] A1

[51] **Int.Cl. A61B 18/02 (2006.01)**
[25] EN
[54] **MULTI-CHANNEL CRYOABLATION SYSTEM AND CONTROL METHOD**
[54] **SYSTEME DE CRYOABLATION MULTICANAL ET PROCEDE DE COMMANDE**
[72] YU, WEIQIU, CN
[72] XU, BINKAI, CN
[72] CHANG, ZHAOHUA, CN
[71] ACCU TARGET MEDIPHARMA (SHANGHAI) CO., LTD., CN
[85] 2023-05-12
[86] 2022-08-02 (PCT/CN2022/109746)
[87] (WO2023/016299)
[30] CN (202110923061.5) 2021-08-12

[21] **3,198,692**
[13] A1

[51] **Int.Cl. B62B 3/06 (2006.01)**
[25] EN
[54] **DEVICE FOR MOVING AN ARTICLE**
[54] **DISPOSITIF DE DEPLACEMENT D'UN ARTICLE**
[72] PLIAKIS, ALEXANDROS VANGELIS, NL
[72] KEIZER, MATHIEU EDUARD, NL
[72] KLAARBERGEN, SWEN VAN, NL
[71] SITA BV, NL
[85] 2023-05-12
[86] 2021-11-16 (PCT/EP2021/081858)
[87] (WO2022/101505)
[30] GB (2017980.0) 2020-11-16

[21] **3,198,696**
[13] A1

[51] **Int.Cl. B04B 3/04 (2006.01) B04B 9/12 (2006.01) F16N 29/02 (2006.01)**
[25] EN
[54] **A METHOD OF GREASING A DECANTER CENTRIFUGE**
[54] **PROCEDE DE GRAISSAGE D'UNE CENTRIFUGEUSE DE DECANTATION**
[72] OLSSON, MARTIN (DECEASED), SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2023-05-12
[86] 2021-10-21 (PCT/EP2021/079253)
[87] (WO2022/106149)
[30] EP (20208728.4) 2020-11-19

[21] **3,198,699**
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) C25B 1/04 (2021.01) C07C 29/151 (2006.01)**
[25] EN
[54] **METHOD AND PLANT FOR PRODUCING SYNGAS**
[54] **METHODE ET INSTALLATION DE PRODUCTION DE GAZ DE SYNTHESE**
[72] MORTENSEN, PETER MOLGAARD, DK
[72] BOGILD HANSEN, JOHN, DK
[71] TOPSOE A/S, DK
[85] 2023-05-12
[86] 2021-12-18 (PCT/EP2021/086678)
[87] (WO2022/136200)
[30] EP (20216623.7) 2020-12-22

[21] **3,198,700**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01) C12N 11/08 (2020.01) C12P 7/06 (2006.01) C12P 7/16 (2006.01)**
[25] FR
[54] **METHOD FOR PRODUCING ALCOHOLS USING A SUPPORT ON WHICH MICROORGANISMS ARE IMMOBILISED**
[54] **PROCEDE DE PRODUCTION D'ALCOOLS AVEC UN SUPPORT SUR LEQUEL SONT IMMOBILISES DES MICRO-ORGANISMES**
[72] GABELLE, JEAN-CHRISTOPHE, FR
[72] TOTH, ESZTER, FR
[72] LOPES FERREIRA, NICOLAS, FR
[72] VELLY, HELENE, FR
[72] GINET, AMANDINE, FR
[72] ARTERO, SEVERINE, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2023-05-12
[86] 2021-12-02 (PCT/EP2021/083876)
[87] (WO2022/128492)
[30] FR (FR2013608) 2020-12-18

Demandes PCT entrant en phase nationale

[21] **3,198,702**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/168 (2006.01) A61M 5/50 (2006.01) A61M 37/00 (2006.01)**

[25] EN

[54] **PRESSURE MANAGEMENT METHOD FOR A DRUG DELIVERY DEVICE**

[54] **PROCEDE DE GESTION DE PRESSION POUR UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**

[72] VOLLE, JEAN-MARC, FR
[72] BEGUIN, STEVE, IE
[72] O'REILLY, SIMON, IE
[72] MARCELPOIL, RAPHAEL, FR
[72] ORNY, CEDRICK, FR
[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-05-12
[86] 2021-11-16 (PCT/US2021/059456)
[87] (WO2022/108901)
[30] US (63/114,894) 2020-11-17

[21] **3,198,703**
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PRODUCING RECOMBINANT COMPONENTS FOR USE IN FOOD AND OTHER PRODUCTS**

[54] **PROCEDES ET COMPOSITIONS POUR PRODUIRE DES COMPOSES RECOMBINES DESTINES A ETRE UTILISES DANS DES ALIMENTS ET D'AUTRES PRODUITS**

[72] GEISTLINGER, TIMOTHY, US
[72] JENSEN, HEATHER, US
[72] JHALA, RAVIRAJIN, US
[72] MEERMAN, HENDRIK, US
[72] WAGONER, TY, US
[72] JOHNSON, TIMOTHY SCOTT, US
[72] WU, VINCENT WEI-XIANG, US
[72] MANEA, FRANCESCA, US
[72] RAMESH, BALAKRISHNAN, US
[71] PERFECT DAY, INC., US

[85] 2023-05-12
[86] 2021-11-15 (PCT/US2021/059413)
[87] (WO2022/104227)
[30] US (63/113,729) 2020-11-13
[30] US (63/175,278) 2021-04-15

[21] **3,198,708**
[13] A1

[51] **Int.Cl. A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS COMPRISING CATIONIC LIPIDS FOR IMMUNOTHERAPY BY DIRECT TUMOR INJECTION**

[54] **PROCEDES ET COMPOSITIONS COMPRENANT DES LIPIDES CATIONIQUES POUR L'IMMUNOTHERAPIE PAR INJECTION DIRECTE DANS UNE TUMEUR**

[72] BEDU-ADDO, FRANK, US
[72] CONN, GREGORY, ES
[72] WARD, MARTIN, US
[72] WOODWARD, JEROLD, US
[72] GANDHAPUDI, SIVA K., US
[71] PDS BIOTECHNOLOGY CORPORATION, US

[85] 2023-05-12
[86] 2021-11-22 (PCT/US2021/060337)
[87] (WO2022/109391)
[30] US (63/116,406) 2020-11-20

[21] **3,198,723**
[13] A1

[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/052 (2006.01)**

[25] EN

[54] **TENDON ROUTING SYSTEM FOR TRANSMISSION OF RESTORATIVE FORCES IN A BRACE**

[54] **SYSTEME DE GUIDAGE DE TENDON POUR LA TRANSMISSION DE FORCES DE RESTAURATION DANS UNE ATTELLE**

[72] ERIC MACKEL, BRADLEY, CA
[72] NATHANIEL DONALD ELLSMERE, JOSEPH, CA
[72] BRUCE FITZGERALD, STEPHEN, CA
[72] DAVID COWPER-SMITH, CHRISTOPHER, CA
[72] PAULA KEREKES, DEANNA, CA
[72] CHRISTOPHER BURNS, EVAN, CA
[72] MARK PARKHILL, ANDREW, CA
[72] ALLEN HARRIS, WILLIAM, CA
[71] SPRING LOADED TECHNOLOGY INCORPORATED, CA

[85] 2023-05-12
[86] 2021-11-12 (PCT/CA2021/051608)
[87] (WO2022/099416)
[30] US (63/113,797) 2020-11-13

[21] **3,198,729**
[13] A1

[51] **Int.Cl. B27N 1/00 (2006.01) D04H 1/541 (2012.01) B27N 1/02 (2006.01) B27N 3/00 (2006.01) B27N 3/04 (2006.01) B27N 3/12 (2006.01) E04B 1/78 (2006.01) E04C 2/16 (2006.01) E04F 15/20 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING WOOD FIBER INSULATING MATERIAL PRODUCTS, AND WOOD FIBER INSULATING MATERIAL PRODUCT**

[54] **PROCEDE DE FABRICATION DE PRODUITS ISOLANTS EN FIBRES DE BOIS ET PRODUIT ISOLANT EN FIBRES DE BOIS**

[72] RITTER, NINA, DE
[72] RECK, CHRISTIAN, DE
[72] MEINLSCHMIDT, PETER, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2023-05-12
[86] 2021-12-07 (PCT/EP2021/084540)
[87] (WO2022/122713)
[30] DE (10 2020 132 552.5) 2020-12-08

[21] **3,198,731**
[13] A1

[51] **Int.Cl. G06F 9/44 (2018.01)**

[25] EN

[54] **GAMEPLAY EVALUATION METHOD AND SYSTEM**

[54] **PROCEDE ET SYSTEME D'EVALUATION DE JOUABILITE**

[72] THANKAMUSHY, SREEKANTH SUNIL, US
[72] ALLEN, WILLIAM H., US
[71] MAGICAL I AM, INC., US

[85] 2023-05-12
[86] 2021-11-15 (PCT/US2021/059377)
[87] (WO2022/104205)
[30] US (63/113,548) 2020-11-13

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[21] **3,198,734**
[13] A1

[51] **Int.Cl. H01M 8/04186 (2016.01)**
[25] EN
[54] **AQUEOUS ENERGY STORAGE SYSTEM FOR REDOX FLOW BATTERIES**

[54] **SYSTEME DE STOCKAGE D'ENERGIE AQUEUX POUR BATTERIES A FLUX REDOX**

[72] GEIGLE, PETER, DE
[72] WEDLER, NILS, DE
[72] LARIONOV, EVGENY, DE
[72] BAAL, EDUARD, DE
[72] KNEUSELS, NIS-JULIAN, DE
[72] SCHNEIDER, CHRISTIAN, DE
[72] EKKERT, OLGA, DE
[72] HARTMANN, MARKUS RICHARD, DE

[72] NEUMANN, DORIS, DE
[72] UNKRIG-BAU, MICHAEL, DE
[71] CMBLU ENERGY AG, DE
[85] 2023-05-12
[86] 2021-12-24 (PCT/EP2021/087647)
[87] (WO2022/136704)
[30] EP (PCT/EP2020/087871) 2020-12-24

[21] **3,198,735**
[13] A1

[51] **Int.Cl. G06V 10/25 (2022.01) G06V 10/56 (2022.01)**
[25] EN
[54] **DETECTION METHOD FOR SAMPLE PRESENCE AND DEVICE ASSOCIATED**

[54] **PROCEDE DE DETECTION DE LA PRESENCE D'UN ECHANTILLON ET DISPOSITIF ASSOCIE**

[72] CARIGNANO, ANDREA, IT
[72] CARADONNA, GIONATAN, IT
[72] TRAVERSI, ANDREA, IT
[72] SALVADORI, MARCO, IT
[71] BIOMERIEUX, FR
[85] 2023-05-12
[86] 2021-12-09 (PCT/EP2021/084981)
[87] (WO2022/122911)
[30] EP (20213492.0) 2020-12-11

[21] **3,198,736**
[13] A1

[51] **Int.Cl. C11B 1/04 (2006.01) A23L 29/256 (2016.01) A61K 8/68 (2006.01) A61K 36/05 (2006.01)**
[25] EN
[54] **IMPROVED OMEGA-3 CONTAINING COMPOSITIONS**

[54] **COMPOSITIONS CONTENANT DES OMEGA-3 AMELIOREES**

[72] GOODALL, BRIAN L., GB
[72] KUKLEV, DMITRY, US
[72] BOSTICK, GLEN L., US
[71] NOOTER/ERIKSEN, INC., US
[85] 2023-05-12
[86] 2020-11-20 (PCT/US2020/061561)
[87] (WO2022/108595)

[21] **3,198,737**
[13] A1

[51] **Int.Cl. G06T 7/80 (2017.01) H04N 21/81 (2011.01) G06V 20/54 (2022.01) G06V 20/70 (2022.01) G08G 1/01 (2006.01) G08G 1/09 (2006.01)**
[25] EN
[54] **AUTOMATIC AND SEMI-AUTOMATIC TRAFFIC CONFIGURATION SYSTEM**

[54] **SYSTEME DE CONFIGURATION DE TRAFIC AUTOMATIQUE ET SEMI-AUTOMATIQUE**

[72] EICHEL, JUSTIN ALEXANDER, CA
[72] HU, CHU QING, CA
[72] MOHAMMADI, FATEMEH, CA
[72] SWART, DAVID MARTIN, CA
[71] MIOVISION TECHNOLOGIES INCORPORATED, CA
[85] 2023-05-12
[86] 2021-11-18 (PCT/CA2021/051628)
[87] (WO2022/104462)
[30] US (63/198,907) 2020-11-20

[21] **3,198,739**
[13] A1

[51] **Int.Cl. B62D 55/265 (2006.01) B62D 55/06 (2006.01) B62D 55/275 (2006.01) B62D 55/28 (2006.01) B63B 59/10 (2006.01)**
[25] EN
[54] **MAGNETIC TRACK SHOE FOR SHIP-CLEANING APPARATUS**

[54] **PATIN MAGNETIQUE POUR APPAREIL DE NETTOYAGE DE NAVIRE**

[72] LEE, DONG WOOK, KR
[71] TAS GLOBAL CO., LTD., KR
[85] 2023-05-12
[86] 2021-11-12 (PCT/KR2021/016584)
[87] (WO2022/103214)
[30] KR (10-2020-0151752) 2020-11-13
[30] KR (10-2021-0154549) 2021-11-11

[21] **3,198,740**
[13] A1

[51] **Int.Cl. A61K 38/57 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING ANTIBODY-MEDIATED REJECTION**

[54] **METHODES DE TRAITEMENT D'UN REJET A MEDIATION PAR ANTICORPS**

[72] ROBERTS, JOHN, US
[72] UKNIS, MARC, US
[72] VOIGT, CHRISTINE, US
[71] CSL BEHRING GMBH, DE
[85] 2023-05-12
[86] 2021-11-18 (PCT/US2021/059872)
[87] (WO2022/109124)
[30] US (63/116,405) 2020-11-20

Demandes PCT entrant en phase nationale

[21] **3,198,742**
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 9/51 (2006.01) A61K 39/00 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **LNP COMPOSITIONS COMPRISING RNA AND METHODS FOR PREPARING, STORING AND USING THE SAME**

[54] **COMPOSITIONS DE LNP COMPRENANT DE L'ARN ET PROCEDES DE PREPARATION, DE STOCKAGE ET D'UTILISATION DE CELLES-CI**

[72] PANZNER, STEFFEN, DE

[72] SAHIN, UGUR, DE

[72] KRIJGER, JORRIT-JAN, DE

[72] THANKI, KAUSHIK, DE

[72] BHATNAGAR, BAKUL SUBODH, US

[72] DARVARI, RAMIN, US

[72] LUTHRA, SUMIT, US

[72] TCHESALOV, SERGUEI, US

[71] BIONTECH SE, DE

[85] 2023-05-12

[86] 2021-11-15 (PCT/EP2021/081675)

[87] (WO2022/101470)

[30] US (63/114,478) 2020-11-16

[30] US (63/115,588) 2020-11-18

[30] US (63/115,128) 2020-11-18

[30] EP (PCT/EP2020/082602) 2020-11-18

[30] US (63/135,723) 2021-01-10

[30] US (63/149,372) 2021-02-15

[30] EP (PCT/EP2021/059460) 2021-04-12

[21] **3,198,743**
[13] A1

[51] **Int.Cl. A61B 5/1455 (2006.01)**

[25] EN

[54] **SENSOR DEVICE, USE OF A SENSOR DEVICE, AND METHOD FOR DETECTING THE PROPERTIES OF A SKIN AREA**

[54] **DISPOSITIF CAPTEUR, UTILISATION D'UN DISPOSITIF CAPTEUR ET PROCEDE DE DETECTION DES PROPRIETES D'UNE ZONE CUTANEE**

[72] HEIDARY DASTJERDI, MARAL, DE

[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE

[85] 2023-05-12

[86] 2021-11-23 (PCT/EP2021/082573)

[87] (WO2022/112197)

[30] DE (10 2020 131 377.2) 2020-11-26

[21] **3,198,744**
[13] A1

[51] **Int.Cl. B63B 59/10 (2006.01) B25J 9/08 (2006.01)**

[25] EN

[54] **SHIP-CLEANING ROBOT**

[54] **ROBOT DE NETTOYAGE DE NAVIRE**

[72] LEE, DONG WOOK, KR

[71] TAS GLOBAL CO., LTD., KR

[85] 2023-05-12

[86] 2021-11-12 (PCT/KR2021/016585)

[87] (WO2022/103215)

[30] KR (10-2020-0151809) 2020-11-13

[30] KR (10-2021-0155553) 2021-11-12

[21] **3,198,745**
[13] A1

[51] **Int.Cl. B62D 55/30 (2006.01) F16C 19/04 (2006.01)**

[25] EN

[54] **TENSION-MAINTAINING UNIT OF CONTINUOUS TRACK DEVICE FOR SHIP, AND CONTINUOUS TRACK DEVICE FOR SHIP, HAVING SAME**

[54] **UNITE DE MAINTIEN DE TENSION DE DISPOSITIF A CHENILLE CONTINUE POUR NAVIRE, ET DISPOSITIF A CHENILLE CONTINUE POUR NAVIRE EQUIPE DE CELLE-CI**

[72] LEE, DONG WOOK, KR

[71] TAS GLOBAL CO., LTD., KR

[85] 2023-05-12

[86] 2021-11-12 (PCT/KR2021/016586)

[87] (WO2022/103216)

[30] KR (10-2020-0151834) 2020-11-13

[30] KR (10-2021-0146669) 2021-10-29

[21] **3,198,746**
[13] A1

[51] **Int.Cl. B01J 29/06 (2006.01) B01J 35/02 (2006.01) B01J 35/08 (2006.01)**

[25] EN

[54] **FLUID CATALYTIC CRACKING ADDITIVE COMPOSITION FOR ENHANCED BUTYLENES SELECTIVITY OVER PROPYLENE**

[54] **COMPOSITION D'ADDITIF DE CRAQUAGE CATALYTIQUE FLUIDE POUR AMELIORER LA SELECTIVITE DE BUTYLENES SUR DU PROPYLENE**

[72] YILMAZ, BILGE, US

[72] KOMVOKIS, VASILEIOS, US

[72] DE SILVA, WATHUDURA INDIKA NAMAL, US

[72] GAO, XINGTAO, US

[71] BASF CORPORATION, US

[85] 2023-05-12

[86] 2021-11-19 (PCT/US2021/060187)

[87] (WO2022/109331)

[30] US (63/116,222) 2020-11-20

PCT Applications Entering the National Phase

[21] **3,198,747**
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01) C07D 211/14 (2006.01) C07F 5/02 (2006.01)**

[25] FR

[54] **RADIOLABELLED COMPOUNDS FOR DIAGNOSING CHOLINERGIC NEURODEGENERATIVE DISEASES**

[54] **COMPOSES RADIOMARQUES POUR LE DIAGNOSTIC DE MALADIES NEURODEGENERATIVES CHOLINERGIQUES**

[72] ROUTIER, SYLVAIN, FR

[72] BURON, FREDERIC, FR

[72] SUZENET, FRANCK, FR

[72] RODRIGUES, NUNO, FR

[72] CHALON, SYLVIE, FR

[72] VERCOUILLIE, JOHNNY, FR

[72] GUILLOTEAU, DENIS, FR

[72] EMOND, PATRICK, FR

[72] MARZAG, HAMID, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR

[71] INSERM PARIS, FR

[71] UNIVERSITE DE TOURS FRANCOIS RABELAIS, FR

[71] UNIVERSITE D'ORLEANS, FR

[85] 2023-05-12

[86] 2021-11-23 (PCT/EP2021/082619)

[87] (WO2022/106714)

[30] FR (FR2012024) 2020-11-23

[21] **3,198,748**
[13] A1

[51] **Int.Cl. A61K 31/197 (2006.01) A61K 31/195 (2006.01) A61K 31/198 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01)**

[25] EN

[54] **METHOD FOR TREATMENT OF PARKINSON'S DISEASE**

[54] **METHODE DE TRAITEMENT DE LA MALADIE DE PARKINSON**

[72] BIRNBERG, TAL, IL

[72] ADAR, LIAT, IL

[72] PERLSTEIN, ITAY, US

[71] NEURODERM LTD, IL

[85] 2023-05-12

[86] 2021-11-16 (PCT/IL2021/051355)

[87] (WO2022/107125)

[30] US (63/114,688) 2020-11-17

[30] US (17/334,554) 2021-05-28

[21] **3,198,749**
[13] A1

[51] **Int.Cl. B42D 25/324 (2014.01) B42D 25/29 (2014.01) B42D 25/351 (2014.01) B42D 25/373 (2014.01) B42D 25/41 (2014.01) B42D 25/425 (2014.01)**

[25] EN

[54] **PERSONALIZABLE COLOR-SHIFTING DATA CARRIER**

[54] **SUPPORT DE DONNEES A DECALAGE DE COULEUR PERSONNALISABLE**

[72] DAVOINE, LAURENT, FR

[72] HAAS, CHRISTOPHER KNUD, FR

[71] THALES DIS FRANCE SAS, FR

[85] 2023-05-12

[86] 2021-11-23 (PCT/EP2021/082714)

[87] (WO2022/112264)

[30] US (17/105,592) 2020-11-26

[21] **3,198,750**
[13] A1

[51] **Int.Cl. A23N 12/08 (2006.01) A23F 5/04 (2006.01) A23N 12/12 (2006.01)**

[25] EN

[54] **METHOD TO CHECK A COFFEE BEANS ROASTING SYSTEM**

[54] **PROCEDE DE CONTROLE D'UN SYSTEME DE TORREFACTION DE GRAINS DE CAFE**

[72] MOREND, JOEL, CH

[72] DUBIEF, FLAVIEN FLORENT, CH

[72] DEGREEF, THOMAS RUDI S., BE

[72] CELIS, MICHEL ALEXANDER, BE

[72] LEMMENS, RIEN DENISE M., BE

[72] BAEKELANDT, MAXIME, BE

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

[85] 2023-05-12

[86] 2021-12-06 (PCT/EP2021/084438)

[87] (WO2022/135893)

[30] EP (20216280.6) 2020-12-22

[21] **3,198,752**
[13] A1

[51] **Int.Cl. B60B 23/02 (2006.01) B60B 3/16 (2006.01) B60B 23/10 (2006.01)**

[25] EN

[54] **A RETENTION DEVICE AND A METHOD OF USE THEREOF**

[54] **DISPOSITIF DE RETENUE ET SON PROCEDE D'UTILISATION**

[72] GUINEA, JOSEPH, AU

[71] RIM-LOCK INNOVATIONS PTY LTD, AU

[85] 2023-05-12

[86] 2021-10-27 (PCT/AU2021/051251)

[87] (WO2022/099348)

[30] AU (2020904163) 2020-11-13

[21] **3,198,753**
[13] A1

[51] **Int.Cl. G08B 21/02 (2006.01) G16H 40/20 (2018.01) H04W 4/90 (2018.01) G08G 1/137 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO DELIVER EMERGENCY MEDICAL SERVICES DIRECTLY TO HEALTH CARE CONSUMERS**

[54] **SYSTEME ET PROCEDE POUR FOURNIR DES SERVICES MEDICAUX D'URGENCE DIRECTEMENT A DES CONSOMMATEURS DE SOINS DE SANTE**

[72] CRUZ, WANDA E., US

[71] CRUZ, WANDA E., US

[85] 2023-05-12

[86] 2021-11-13 (PCT/US2021/059276)

[87] (WO2022/104165)

[30] US (63/113,348) 2020-11-13

[21] **3,198,756**
[13] A1

[51] **Int.Cl. A61K 31/335 (2006.01) C12Q 1/6886 (2018.01) G01N 33/574 (2006.01)**

[25] EN

[54] **TISSUE ORGANOID BIOPRINTING AND HIGH-THROUGHPUT SCREENING METHODOLOGY**

[54] **BIO-IMPRESSION D'ORGANOIDE DE TISSU ET METHODOLOGIE DE CRIBLAGE A HAUT RENDEMENT**

[72] SORAGNI, ALICE, US

[72] TEBON, PEYTON JOHN, US

[72] LIN, LUDA, US

[72] TAVANAIE, NASRIN, US

[72] WANG, BOWEN, US

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

[85] 2023-05-12

[86] 2021-12-07 (PCT/US2021/062264)

[87] (WO2022/125585)

[30] US (63/122,258) 2020-12-07

Demandes PCT entrant en phase nationale

[21] **3,198,757**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61P 3/10 (2006.01) C07F 5/02 (2006.01) C07K 14/62 (2006.01)**

[25] EN

[54] **AROMATIC BORON-CONTAINING COMPOUNDS AND INSULIN ANALOGS**

[54] **COMPOSES AROMATIQUES CONTENANT DU BORE ET ANALOGUES D'INSULINE**

[72] SPENCER, RYAN KELLY, US

[72] CHEN, DIAO, US

[72] MALI, SACHITANAND, US

[72] STEELE, JACK JOSEPH, US

[72] LIANG, JINGXIN, US

[72] SHAKER, MIRNA EKRAM ANWAR, US

[72] MAHDAVI, ALBORZ, US

[71] PROTOMER TECHNOLOGIES INC., US

[85] 2023-05-12

[86] 2021-11-18 (PCT/US2021/059802)

[87] (WO2022/109078)

[30] US (63/116,050) 2020-11-19

[30] US (63/122,338) 2020-12-07

[30] US (63/210,968) 2021-06-15

[30] US (63/249,868) 2021-09-29

[21] **3,198,758**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61K 31/00 (2006.01) A61P 1/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING CANNABINOID AGONIST**

[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT UN AGONISTE CANNABINOIDE**

[72] YATES, ANDREW, GB

[72] DICKINSON, PAUL, GB

[72] WARD, ROBERT, GB

[71] ARTELO BIOSCIENCES LIMITED, GB

[85] 2023-05-12

[86] 2021-12-07 (PCT/GB2021/053200)

[87] (WO2022/123233)

[30] GB (2019335.5) 2020-12-08

[21] **3,198,759**
[13] A1

[51] **Int.Cl. A24B 3/00 (2006.01) A24B 3/12 (2006.01) A24B 5/00 (2006.01) A24B 7/00 (2006.01)**

[25] EN

[54] **METHOD OF PROCESSING GREEN TOBACCO LEAVES INTO CUT TOBACCO**

[54] **PROCEDE DE TRANSFORMATION DE FEUILLES DE TABAC VERT EN TABAC HACHE**

[72] EARL JONES, ROBERT, BR

[71] EARL JONES, ROBERT, BR

[85] 2023-05-12

[86] 2020-12-07 (PCT/BR2020/050517)

[87] (WO2022/120440)

[21] **3,198,761**
[13] A1

[51] **Int.Cl. H02N 2/14 (2006.01)**

[25] EN

[54] **METHOD FOR TESTING PIEZOELECTRIC SOUND TRANSDUCER**

[54] **PROCEDE DE TEST D'UN TRANSDUCTEUR ACOUSTIQUE PIEZOELECTRIQUE**

[72] BEGUIN, STEVE, IE

[72] CURTIN, MAURICE, IE

[72] O'REILLY, SIMON, IE

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-05-12

[86] 2021-11-16 (PCT/US2021/059463)

[87] (WO2022/108905)

[30] US (63/114,879) 2020-11-17

[21] **3,198,762**
[13] A1

[51] **Int.Cl. H01M 10/0587 (2010.01) H01M 10/0525 (2010.01) H01M 10/0583 (2010.01)**

[25] EN

[54] **ELECTRODE ASSEMBLY AND PROCESSING METHOD AND DEVICE THEREFOR, BATTERY CELL, BATTERY AND POWER CONSUMING DEVICE**

[54] **ENSEMBLE ELECTRODE ET PROCEDE ET APPAREIL DE TRAITEMENT, ELEMENT DE BATTERIE, BATTERIE ET APPAREIL ELECTRIQUE**

[72] ZHANG, SHENGWU, CN

[72] TANG, MINGHAO, CN

[72] LIN, WENFA, CN

[72] YE, JIE, CN

[71] CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED, CN

[85] 2023-05-12

[86] 2021-08-05 (PCT/CN2021/111045)

[87] (WO2023/010479)

[21] **3,198,764**
[13] A1

[51] **Int.Cl. C12N 9/16 (2006.01)**

[25] EN

[54] **STABLE SYNTHETIC PHYTASE VARIANTS**

[54] **VARIANTS SYNTHETIQUES STABLES DE PHYTASE**

[72] MICHELS, ANDREAS, DE

[72] SCHEIDIG, ANDREAS, DE

[72] HORN, THOMAS, DE

[72] METTEN, ALEXANDER, DE

[71] EW NUTRITION GMBH, DE

[85] 2023-05-12

[86] 2021-11-17 (PCT/EP2021/082016)

[87] (WO2022/106483)

[30] EP (20208205.3) 2020-11-17

PCT Applications Entering the National Phase

[21] **3,198,765**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 17/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING INFLAMMATORY SKIN CONDITIONS**

[54] **METHODES DE TRAITEMENT D'AFFECTIONS CUTANEEES INFLAMMATOIRES**

[72] OWCZAREK, CATHERINE MARY, AU

[72] LOPEZ, ANGEL FRANCISCO, AU

[72] YIP, KWOK HO, AU

[72] TUMES, DAMON JOHN, AU

[71] CSL INNOVATION PTY LTD, AU

[85] 2023-05-12

[86] 2021-12-03 (PCT/AU2021/051442)

[87] (WO2022/115914)

[30] AU (2020904494) 2020-12-04

[30] AU (2021901818) 2021-06-17

[21] **3,198,766**
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CREATING A LENTICULE FOR PRESBYOPIA**

[54] **SYSTEMES ET PROCEDES PERMETTANT LA CREATION D'UN LENTICULE POUR UNE PRESBYTIE**

[72] BOR, ZSOLT, US

[72] KLAFKE, MARIO, DE

[72] KRAUSE, JOHANNES, DE

[72] WATANABE, KEITH, US

[71] ALCON INC., CH

[85] 2023-05-12

[86] 2021-12-09 (PCT/IB2021/061505)

[87] (WO2022/130135)

[30] US (63/126,343) 2020-12-16

[21] **3,198,767**
[13] A1

[51] **Int.Cl. E04B 2/74 (2006.01) E04F 13/08 (2006.01)**

[25] EN

[54] **BACKPLATE ARRANGEMENTS AND GAP COVER APPARATUS FOR MODULAR WALL SYSTEMS AND INSTALLATION METHOD**

[54] **AGENCEMENTS DE PLAQUE ARRIERE ET APPAREIL DE COUVERTURE D'ESPACE POUR SYSTEMES DE PAROI MODULAIRES ET PROCEDES D'INSTALLATION**

[72] CRENSHAW, THOMAS, US

[71] MFPHD, LLC, US

[85] 2023-05-12

[86] 2021-10-18 (PCT/US2021/055476)

[87] (WO2022/103553)

[30] US (17/098,364) 2020-11-14

[30] US (17/361,398) 2021-06-29

[30] US (17/361,417) 2021-06-29

[21] **3,198,768**
[13] A1

[51] **Int.Cl. A61M 5/28 (2006.01) A61M 5/31 (2006.01) A61M 5/32 (2006.01) A61M 5/50 (2006.01)**

[25] FR

[54] **PRE-FILLED SYRINGE (PFS) WITH TWIST-BREAKABLE TIP, ENSURING THAT THE SYRINGE IS TAMPER-RESISTANT AND CAN BE RELIABLY OPENED**

[54] **SERINGUE PREREMPLIE (PFS) A EMBOU SECABLE PAR ROTATION, GARANTISSANT A LA FOIS L'INVOLABILITE ET UNE OUVERTURE FIABLE DE LA SERINGUE.**

[72] TONNAR, JEFF, FR

[72] GUYOT WITTMANN, VINCENT, DE

[72] PENARD, CEDRIC, FR

[71] LABORATOIRE AGUETTANT, FR

[85] 2023-05-12

[86] 2021-11-26 (PCT/EP2021/083144)

[87] (WO2022/112492)

[30] FR (FR2012159) 2020-11-26

[21] **3,198,769**
[13] A1

[51] **Int.Cl. B29C 70/44 (2006.01) B29C 70/54 (2006.01)**

[25] EN

[54] **EMBOSSED VACUUM BAG FILM, VACUUM BAGGING SYSTEM INCLUDING AN EMBOSSED VACUUM BAG FILM, AND METHODS OF FABRICATING A COMPOSITE PART USING THE SAME**

[54] **FILM DE SAC SOUS VIDE GAUFRE, SYSTEME D'ENSACHAGE SOUS VIDE COMPRENANT UN FILM DE SAC SOUS VIDE GAUFRE, ET PROCEDES DE FABRICATION D'UNE PIECE COMPOSITE UTILISANT CELUI-CI**

[72] DAHLGREN, JEFFREY L., US

[72] LUNN, PHILIP A., US

[72] SKELTON, ZACHARY I., US

[71] AIRTECH INTERNATIONAL, INC., US

[85] 2023-05-12

[86] 2021-11-09 (PCT/US2021/058568)

[87] (WO2022/103727)

[30] US (17/098,153) 2020-11-13

[21] **3,198,770**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 47/18 (2017.01) A61K 47/22 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **PROTEIN FORMULATIONS AND USES THEREOF**

[54] **FORMULATIONS DE PROTEINES ET LEURS UTILISATIONS**

[72] GOODALL, DIANNA GRACE, AU

[72] EDWARDS, NATHAN AARON, AU

[72] NASSTA, GEMMA, AU

[72] RESLAN, MOUHAMAD, AU

[71] CSL INNOVATION PTY LTD, AU

[85] 2023-05-12

[86] 2021-07-09 (PCT/AU2021/050736)

[87] (WO2022/126173)

[30] AU (2020904684) 2020-12-16

Demandes PCT entrant en phase nationale

[21] **3,198,773**
[13] A1

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 39/04 (2006.01) A01N 43/50 (2006.01)**
[25] EN
[54] **AN AQUEOUS COMPOSITION OF EPYRIFENACIL, FLUMIOXAZIN AND PYROXASULFONE**
[54] **COMPOSITION AQUEUSE D'EPYRIFENACIL, DE FLUMIOXAZINE ET DE PYROXASULFONE**
[72] SHIBAYAMA, TAKASHI, US
[72] ZHOU, KE, US
[71] VALENT U.S.A. LLC, US
[85] 2023-05-12
[86] 2021-11-30 (PCT/US2021/061099)
[87] (WO2022/119797)
[30] US (63/120,234) 2020-12-02

[21] **3,198,774**
[13] A1

[51] **Int.Cl. A01N 43/54 (2006.01) A01N 57/20 (2006.01)**
[25] EN
[54] **AN AQUEOUS COMPOSITION OF EPYRIFENACIL, MESOTRIONE AND PYROXASULFONE**
[54] **COMPOSITION AQUEUSE D'EPYRIFENACIL, DE MESOTRIONE ET DE PYROXASULFONE**
[72] ZHOU, KE, US
[71] VALENT U.S.A. LLC, US
[85] 2023-05-12
[86] 2021-11-30 (PCT/US2021/061104)
[87] (WO2022/119799)
[30] US (63/120,235) 2020-12-02

[21] **3,198,775**
[13] A1

[51] **Int.Cl. A23N 12/08 (2006.01) A23F 5/04 (2006.01) A23N 12/12 (2006.01)**
[25] EN
[54] **METHOD TO CHECK A COFFEE BEANS ROASTING SYSTEM**
[54] **PROCEDE POUR VERIFIER UN SYSTEME DE TORREFACTION DE GRAINS DE CAFE**
[72] MOREND, JOEL, CH
[72] DUBIEF, FLAVIEN FLORENT, CH
[72] DEGREEF, THOMAS RUDI S., BE
[72] CELIS, MICHIEL ALEXANDER, BE
[72] LEMMENS, RIEN DENISE M., BE
[72] BAEKELANDT, MAXIME, BE
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2023-05-12
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[87] (WO2022/135894)
[30] EP (20216278.0) 2020-12-22

[21] **3,198,776**
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[51] **Int.Cl. A61K 31/706 (2006.01) A61K 39/395 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING OR PREVENTING ACUTE RESPIRATORY DISTRESS SYNDROME**
[54] **METHODES DE TRAITEMENT OU DE PREVENTION DU SYSTEME DE DETRESSE RESPIRATOIRE AIGUE**
[72] OWCZAREK, CATHERINE MARY, AU
[72] CAMPBELL, IAN KEITH, AU
[72] KRSTEVSKI, KAROLINA, AU
[72] BOZINOVSKI, STEVEN, AU
[72] LOPEZ, ANGEL FRANCISCO, AU
[72] TUMES, DAMON JOHN, AU
[71] CSL INNOVATION PTY LTD, AU
[85] 2023-05-12
[86] 2021-12-20 (PCT/AU2021/051521)
[87] (WO2022/133519)
[30] AU (2020904755) 2020-12-21
[30] AU (2021903362) 2021-10-20

[21] **3,198,777**
[13] A1

[51] **Int.Cl. G06V 10/10 (2022.01) G06Q 50/22 (2018.01) A61J 1/03 (2023.01) A61J 7/02 (2006.01) G06N 3/08 (2023.01)**
[25] EN
[54] **IMAGE ANALYSIS SERVER, OBJECT COUNTING METHOD USING IMAGE ANALYSIS SERVER, AND OBJECT COUNTING SYSTEM**
[54] **SERVEUR D'ANALYSE D'IMAGE, PROCEDE DE COMPTAGE D'OBJETS UTILISANT LE SERVEUR D'ANALYSE D'IMAGE, ET SYSTEME DE COMPTAGE D'OBJETS**
[72] LIM, SANG KYU, KR
[71] MEDILITY INC, KR
[85] 2023-05-12
[86] 2021-08-13 (PCT/KR2021/010824)
[87] (WO2022/108044)
[30] KR (10-2020-0153982) 2020-11-17
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[51] **Int.Cl. H01R 39/36 (2006.01) H01R 39/38 (2006.01)**
[25] EN
[54] **BRUSH ASSEMBLY**
[54] **ENSEMBLE BALAI**
[72] CUTSFORTH, ROBERT S., US
[72] SCHULTZ, KURTIS JEREMY, US
[71] CUTSFORTH, INC., US
[85] 2023-05-12
[86] 2021-11-30 (PCT/US2021/061194)
[87] (WO2022/119834)
[30] US (63/119,803) 2020-12-01
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| [54] PERSONAL CARE COMPOSITION COMPRISING GLYCINATE SURFACTANT, POLYOL AND NONIONIC SURFACTANT COMPRISING ALKYL GLUCOSIDE | [54] NOVEL STEROID HORMONE LIGAND ASSAYS | [54] CAMPTOTHECINE ANTIBODY-DRUG CONJUGATES AND METHODS OF USE THEREOF |
| [54] COMPOSITION POUR SOINS PERSONNELS COMPRENANT UN TENSIOACTIF GLYCINATE, UN POLYOL ET UN TENSIOACTIF NON IONIQUE COMPRENANT DU GLUCOSIDE D'ALKYLE | [54] NOUVEAUX DOSAGES DE LIGANDS D'HORMONES STEROIDES | [54] CONJUGUES ANTICORPS-MEDICAMENT DE CAMPTOTHECINE ET LEURS METHODES D'UTILISATION |
| [72] LIU, LANHUA, CN | [72] HEATHER, ALISON KAY, NZ | [72] CHUPRAKOV, STEPAN, US |
| [72] PAN, CHANCHAN, CN | [71] INSITUGEN LIMITED, NZ | [72] OGUNKOYA, AYODELE O., US |
| [71] UNILEVER GLOBAL IP LIMITED, GB | [85] 2023-05-12 | [72] DRAKE, PENELOPE M., US |
| [85] 2023-05-12 | [86] 2021-11-12 (PCT/NZ2021/050201) | [71] R.P. SCHERER TECHNOLOGIES, LLC, US |
| [86] 2021-11-09 (PCT/EP2021/081013) | [87] (WO2022/103282) | [85] 2023-05-12 |
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| | [72] ORTIZ SHIELDS, MARCO ANTONIO, US | [51] Int.Cl. F41A 21/30 (2006.01) F41A 21/28 (2006.01) F41A 21/34 (2006.01) F41A 21/36 (2006.01) |
| | [71] BECTON, DICKINSON AND COMPANY, US | [25] EN |
| | [85] 2023-05-12 | [54] SUPPRESSOR ASSEMBLY FOR A FIREARM |
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| | [30] US (63/120,988) 2020-12-03 | [72] PINI, ADAM, US |
| | [30] US (17/522,505) 2021-11-09 | [71] KGMADE, LLC, US |
| [21] 3,198,783 [13] A1 | | [85] 2023-05-12 |
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| [25] EN | | [87] (WO2022/115870) |
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| [72] FUCHS, SIMON, IL | | |
| [71] BETH-EL MACHINERY LTD., IL | | |
| [85] 2023-05-12 | | |
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[51] **Int.Cl. A45C 15/00 (2006.01) H01R 24/60 (2011.01) A45F 3/04 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **CASE WITH EXTRACTABLE/RETRACTABLE CHARGING PORT**

[54] **BOITIER AVEC PORT DE CHARGEMENT EXTRACTIBLE/RETRACTABLE**

[72] YUAN, JONNY, US

[72] CABUNOC, ALEX ROBERT, US

[71] TARGUS INTERNATIONAL LLC, US

[85] 2023-05-12

[86] 2021-11-17 (PCT/US2021/072465)

[87] (WO2022/109566)

[30] US (63/114,916) 2020-11-17

[21] **3,198,791**
[13] A1

[51] **Int.Cl. E21B 34/08 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **FLUID FLOW CONTROL DEVICES AND METHODS TO REDUCE OVERSPEED OF A FLUID FLOW CONTROL DEVICE**

[54] **DISPOSITIFS ET PROCES DE REGULATION DE DEBIT DE FLUIDE POUR LA REDUCTION DE LA SURVITESSE D'UN DISPOSITIF DE REGULATION DE DEBIT DE FLUIDE**

[72] MCCHESENEY, RYAN WESLEY, US

[72] GRECI, STEPHEN MICHAEL, US

[72] ORNELAZ, RICHARD DECENA, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-05-12

[86] 2020-12-22 (PCT/US2020/066600)

[87] (WO2022/139811)

[30] US (17/128,948) 2020-12-21

[21] **3,198,793**
[13] A1

[51] **Int.Cl. E21B 23/06 (2006.01) E21B 33/12 (2006.01) E21B 34/10 (2006.01)**

[25] EN

[54] **WELLBORE PACKER WITH EXPANDABLE METAL ELEMENTS**

[54] **GARNITURE D'ETANCHEITE DE PUIIS DE FORAGE AVEC ELEMENTS METALLIQUES EXPANSIBLES**

[72] PELTO, CHRISTOPHER MICHAEL, US

[72] FRIPP, MICHAEL LINLEY, US

[72] GJELSTAD, GEIR, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-05-12

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[87] (WO2022/132170)

[30] US (17/124,015) 2020-12-16

[21] **3,198,794**
[13] A1

[51] **Int.Cl. B60B 35/16 (2006.01) B60T 17/08 (2006.01)**

[25] EN

[54] **RADIAL MOUNTING TORQUE PLATE FOR HEAVY-DUTY VEHICLE BRAKES**

[54] **PLAQUE DE COUPLE DE MONTAGE RADIAL POUR FREINS DE VEHICULE UTILITAIRE LOURD**

[72] KARICH, MATTHEW P., US

[72] WITTLINGER, JEFFREY R., US

[72] WHITE, JAY D., US

[71] HENDRICKSON USA, L.L.C., US

[85] 2023-05-12

[86] 2021-10-06 (PCT/US2021/053694)

[87] (WO2022/103523)

[30] US (63/113,362) 2020-11-13

[21] **3,198,795**
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 31/135 (2006.01) A61K 47/40 (2006.01)**

[25] EN

[54] **COMPLEXING AGENT SALT FORMULATIONS OF PHARMACEUTICAL COMPOUNDS**

[54] **FORMULATIONS SALINES DE COMPOSES PHARMACEUTIQUES A BASE D'AGENTS COMPLEXANTS**

[72] BECKER, JEFFREY, US

[72] PETERSON, GREGG, US

[72] WALLACH, JASON, US

[71] BEXSON BIOMEDICAL, INC., US

[85] 2023-05-12

[86] 2021-11-17 (PCT/US2021/059760)

[87] (WO2022/109050)

[30] US (63/115,445) 2020-11-18

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[30] US (63/115,453) 2020-11-18

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[13] A1

[51] **Int.Cl. C08F 214/06 (2006.01) C08F 220/12 (2006.01) C08F 259/04 (2006.01) C08K 3/36 (2006.01) C08L 27/06 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PRODUCTION OF A VINYL CHLORIDE-(METH)ACRYLATE COPOLYMER AND COMPOSITION COMPRISING SUCH COPOLYMER**

[54] **PROCEDE DE PRODUCTION D'UN COPOLYMER DE CHLORURE DE VINYLE-(METH) ACRYLATE ET COMPOSITION COMPRENANT UN TEL COPOLYMER**

[72] HERMANT, THOMAS, BE

[71] INOVYN EUROPE LIMITED, GB

[85] 2023-05-12

[86] 2021-11-08 (PCT/EP2021/080884)

[87] (WO2022/101117)

[30] EP (20207585.9) 2020-11-13

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[13] A1

[51] **Int.Cl. A61J 1/00 (2023.01) B65B 3/00 (2006.01) B65D 75/00 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND APPARATUSES FOR PRODUCING AND PACKAGING FLUIDS**

[54] **SYSTEMES, PROCEDES ET APPAREILS POUR PRODUIRE ET CONDITIONNER DES FLUIDES**

[72] KAMEN, DEAN, US
[72] JOHNSON, HANS ERIK, US
[72] HUGHES, THADDEUS JOSEPH, US
[72] HAYNES, MICHAEL J., US
[72] WOOD, RYAN P., US
[72] ANDREWS, MATTHEW H., US
[72] DUFFY, SEAN P., US
[72] PICCIRILLO, ROBERT, US
[72] BRADLEY, MARGARET BAYNE, US
[72] LAWLER, ROBERT HOUSTON JR., US

[72] HURLEY, GREGORY, US
[72] WALDRON, KELLER, US
[72] DUBE, JEREMY SHANE, US
[72] BIASI, JOHN J., US
[72] TRACEY, BRIAN DANIEL, US
[72] MORGAN, FREDERICK, US
[72] NARO, TREVOR M., US
[72] LANGENFELD, CHRISTOPHER CHARLES, US

[72] CURTIN, PAUL RICHARD, US
[72] MOREAU, TIMOTHY D., GB
[72] LOPEZ, MANUEL, US
[72] GEIB, ALEX NATHANIEL, US
[72] FULTON, COLLEEN N., US
[72] KILIAN, DONALD, US
[72] TRILLING, JEREMY ELAN, US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US

[85] 2023-05-12
[86] 2021-09-24 (PCT/US2021/052012)
[87] (WO2022/115144)
[30] US (63/118,410) 2020-11-25

[21] **3,198,798**
[13] A1

[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/427 (2006.01) A61K 31/485 (2006.01)**

[25] EN

[54] **IMPROVED SYNTHESIS OF CRAC CHANNEL INHIBITORS**

[54] **SYNTHESE AMELIOREE D'INHIBITEURS DE CANAL CRAC**

[72] STAUDERMAN, KENNETH, US
[72] OLMSTEAD, KAY, US
[72] DUNN, MICHAEL, US
[71] CALCIMEDICA, INC., US
[85] 2023-05-12
[86] 2020-11-13 (PCT/IB2020/000965)
[87] (WO2022/101654)

[21] **3,198,799**
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01)**

[25] EN

[54] **USE OF AN AGENT FOR PRIMING SILICON SURFACES**

[54] **UTILISATION D'UN AGENT POUR APPRETER DES SURFACES DE SILICONE**

[72] NASS, JORG, DE
[71] FEXSIL GMBH, DE
[85] 2023-05-12
[86] 2022-01-03 (PCT/EP2022/050012)
[87] (WO2022/148721)
[30] DE (10 2021 100 113.7) 2021-01-06

[21] **3,198,800**
[13] A1

[51] **Int.Cl. C03C 25/323 (2018.01) D04H 1/4209 (2012.01) D04H 1/587 (2012.01) D04H 1/645 (2012.01) C08G 63/06 (2006.01) C08G 63/12 (2006.01) C08G 63/668 (2006.01) C09J 167/02 (2006.01) C09J 167/04 (2006.01) D04H 1/64 (2012.01)**

[25] FR

[54] **THERMOSETTING BINDER COMPOSITION FOR MANUFACTURING INSULATION PRODUCTS CONTAINING A WATER-SOLUBLE OLIGOMER ESTER**

[54] **COMPOSITION DE LIANT THERMODURCISSABLE POUR LA FABRICATION DE PRODUITS D'ISOLATION CONTENANT UN ESTER OLIGOMERIQUE HYDROSOLUBLE**

[72] HERMANT, FABIEN, FR
[72] LEGRAND, AURELIE, FR
[72] GUERIN, WILLIAM, FR
[71] SAINT-GOBAIN ISOVER, FR
[85] 2023-05-12
[86] 2021-12-09 (PCT/FR2021/052264)
[87] (WO2022/129742)
[30] FR (FR2013156) 2020-12-14

[21] **3,198,801**
[13] A1

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

[25] FR

[54] **LAMINATED GLAZING WITH SEVERAL PANELS, OF WHICH A REGION FOR POSITIONING ADJACENT PANELS NEXT TO ONE ANOTHER IS REINFORCED BY INSERTING A STRUCTURING ELEMENT**

[54] **VITRAGE FEUILLETE A PLUSIEURS PANNEAUX, DONT UNE ZONE DE JUXTAPOSITION DE PANNEAUX VOISINS EST RENFORCEE PAR INSERTION D'UN ELEMENT STRUCTURANT**

[72] LAGO-GOMEZ, CYRIL, FR
[72] SAUVESTY, JEAN-CHARLES, FR
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2023-05-12
[86] 2021-12-13 (PCT/FR2021/052287)
[87] (WO2022/129751)
[30] FR (FR2013196) 2020-12-14

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[13] A1

[51] **Int.Cl. A61K 31/401 (2006.01) A61K 38/095 (2019.01) A61K 31/426 (2006.01) A61P 5/12 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OR PREVENTION OF PRETERM LABOR**

[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT OU DE PREVENTION DE TRAVAIL PREMATURE**

[72] GOTTELAND, JEAN-PIERRE, CH

[71] XOMA (US) LLC, US

[85] 2023-05-12

[86] 2021-11-16 (PCT/EP2021/081794)

[87] (WO2022/101495)

[30] US (63/114,233) 2020-11-16

[21] **3,198,803**
[13] A1

[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/4365 (2006.01) C07D 495/14 (2006.01)**

[25] EN

[54] **ALC1 INHIBITORS AND SYNERGY WITH PARPI**

[54] **INHIBITEURS D'ALC1 ET SYNERGIE AVEC PARPI**

[72] MENZER, WILLIAM M., DE

[72] KNOBLOCH, GUNNAR, DE

[72] LIELEG, CORINNA, DE

[72] SCHOMBURG, ADRIAN, DE

[72] LADURNER, ANDREAS, DE

[72] SENNHENN, PETER, DE

[71] EISBACH BIO GMBH, DE

[85] 2023-05-12

[86] 2021-12-03 (PCT/EP2021/084089)

[87] (WO2022/117782)

[30] EP (20211730.5) 2020-12-03

[21] **3,198,804**
[13] A1

[51] **Int.Cl. A01N 43/54 (2006.01) A01N 43/653 (2006.01)**

[25] EN

[54] **STABILIZED COMPOSITIONS CONTAINING STROBILURIN FUNGICIDES AND POLYHYDRIC ALCOHOLS**

[54] **COMPOSITIONS STABILISEES CONTENANT DES FONGICIDES A BASE DE STROBILURINE ET DES ALCOOLS POLYHYDRIQUES**

[72] LERNER YARDENI, JENNY, IL

[72] SHMOELI, ELIYAHU, IL

[71] ADAMA MAKHTESHIM LTD., IL

[85] 2023-05-12

[86] 2021-11-30 (PCT/IL2021/051421)

[87] (WO2022/118308)

[30] US (63/119,689) 2020-12-01

[21] **3,198,805**
[13] A1

[51] **Int.Cl. A61K 47/36 (2006.01) C12N 7/00 (2006.01) G01N 1/28 (2006.01)**

[25] EN

[54] **STORING AND/OR TRANSPORTING EXTRACELLULAR NUCLEIC ACIDS**

[54] **STOCKAGE ET/OU TRANSPORT D'ACIDES NUCLEIQUES EXTRACELLULAIRES**

[72] HALLAM, DEAN, GB

[72] SWIOKLO, STEPHEN, GB

[72] CONNON, CHE, GB

[71] ATELERIX LIMITED, GB

[85] 2023-05-12

[86] 2021-11-12 (PCT/GB2021/052936)

[87] (WO2022/101640)

[30] GB (2017996.6) 2020-11-16

[21] **3,198,806**
[13] A1

[51] **Int.Cl. C07C 27/00 (2006.01) C07C 27/28 (2006.01) C07C 29/00 (2006.01) C07C 29/80 (2006.01)**

[25] EN

[54] **GREEN METHANOL PRODUCTION**

[54] **PRODUCTION DE METHANOL VERT**

[72] FEINSTEIN, JONATHAN JAY, US

[71] ZONEFLOW REACTOR TECHNOLOGIES, LLC, US

[85] 2023-05-12

[86] 2021-11-12 (PCT/US2021/072386)

[87] (WO2022/104375)

[30] US (63/113,844) 2020-11-14

[21] **3,198,910**
[13] A1

[51] **Int.Cl. C10L 3/10 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PRODUCING A FUEL FROM BIOGAS**

[54] **PROCEDE ET SYSTEME DE PRODUCTION D'UN COMBUSTIBLE A PARTIR DE BIOGAZ**

[72] FOODY, PATRICK J., CA

[71] IOGEN CORPORATION, CA

[85] 2023-05-15

[86] 2021-12-18 (PCT/CA2021/051845)

[87] (WO2022/147610)

[30] US (17/142,537) 2021-01-06

[21] **3,198,919**
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01)**

[25] EN

[54] **PRODUCER CELL HAVING LOW LEVELS OF VA-RNA**

[54] **CELLULE PRODUCTRICE PRESENTANT DE FAIBLES TAUX D'ARN VA**

[72] HEIN, KERSTIN, DE

[72] DO CARMO GIL GONCALVES, INES, DE

[72] WISSING, SILKE, DE

[72] HUDJETZ, BEN, DE

[71] CEVEC PHARMACEUTICALS GMBH, DE

[85] 2023-05-15

[86] 2021-12-20 (PCT/EP2021/086768)

[87] (WO2022/136258)

[30] EP (20215905.9) 2020-12-21

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[21] **3,198,934**
[13] A1

[51] **Int.Cl. C07D 251/40 (2006.01) A61P 9/04 (2006.01) A61P 9/10 (2006.01) C07D 407/02 (2006.01)**

[25] EN

[54] **TRIAZINE DIONE DERIVATIVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF IN MEDICINE**

[54] **DERIVE DE TRIAZINE DIONE, SON PROCEDE DE PREPARATION ET SON APPLICATION EN MEDECINE**

[72] ZHANG, XIAOMIN, CN
[72] HU, WEIMIN, CN
[72] FEI, HONGBO, CN
[72] HE, FENG, CN
[72] TAO, WEIKANG, CN
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN

[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN

[85] 2023-05-15
[86] 2021-11-19 (PCT/CN2021/131642)
[87] (WO2022/105852)
[30] CN (202011310827.4) 2020-11-20
[30] CN (202110021509.4) 2021-01-08
[30] CN (202110244090.9) 2021-03-05
[30] CN (202110464375.3) 2021-04-28

[21] **3,198,938**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) C07D 417/04 (2006.01)**

[25] EN

[54] **TREATMENT OF KRAS MUTANT CANCERS**

[54] **TRAITEMENT DE CANCERS MUTANTS DE KRAS**

[72] WILEY, SANDRA E., US
[72] GOLD, DANIEL P., US
[71] MEI PHARMA, INC., US

[85] 2023-05-15
[86] 2021-11-19 (PCT/US2021/060151)
[87] (WO2022/109307)
[30] US (63/115,969) 2020-11-19
[30] US (63/158,849) 2021-03-09
[30] US (63/154,652) 2021-02-26
[30] US (63/173,361) 2021-04-10

[21] **3,198,940**
[13] A1

[51] **Int.Cl. C07K 14/195 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **PESTICIDAL GENES AND METHODS OF USE**

[54] **GENES PESTICIDES ET PROCEDES D'UTILISATION**

[72] KELLY, REBEKAH DETER, US
[72] PARKS, JESSICA, US
[72] THAYER, REBECCA E., US
[72] TORNEY, FRANCOIS, FR
[71] AGBIOME, INC., US

[85] 2023-05-15
[86] 2021-11-24 (PCT/US2021/060718)
[87] (WO2022/115524)
[30] US (63/117,797) 2020-11-24
[30] US (63/140,058) 2021-01-21

[21] **3,198,941**
[13] A1

[51] **Int.Cl. G06V 10/82 (2022.01) G06V 20/10 (2022.01) G06V 20/56 (2022.01)**

[25] EN

[54] **NORMALIZING COUNTS OF PLANT-PARTS-OF-INTEREST**

[54] **NORMALISATION DE COMPTES DE PARTIES D'INTERET DE PLANTES**

[72] YUAN, ZHIQIANG, US
[72] YUAN, BODI, US
[72] ZHENG, MING, US
[71] MINERAL EARTH SCIENCES LLC, US

[85] 2023-05-15
[86] 2021-11-05 (PCT/US2021/058240)
[87] (WO2022/108770)
[30] US (16/950,037) 2020-11-17

[21] **3,198,945**
[13] A1

[51] **Int.Cl. C21B 13/14 (2006.01) C22B 5/00 (2006.01)**

[25] EN

[54] **BIOMASS DIRECT REDUCED IRON**

[54] **FER DE REDUCTION DIRECTE A BASE DE BIOMASSE**

[72] BUCKLEY, MICHAEL, AU
[71] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU

[85] 2023-05-15
[86] 2021-11-24 (PCT/AU2021/051400)
[87] (WO2022/109665)
[30] AU (2020904337) 2020-11-24

[21] **3,198,948**
[13] A1

[51] **Int.Cl. A61M 16/14 (2006.01) A61M 16/18 (2006.01)**

[25] EN

[54] **A BREATHING SYSTEM FOR A PATIENT TO BREATHE THROUGH AND INHALE A SUBSTANCE FROM**

[54] **SYSTEME RESPIRATOIRE A TRAVERS LEQUEL UN PATIENT RESPIRE ET INHALE UNE SUBSTANCE**

[72] DARWOOD, ALASTAIR RUPERT JOSEPH, GB
[71] INSPIRED VENTILATION LTD, GB

[85] 2023-05-15
[86] 2021-11-15 (PCT/EP2021/081753)
[87] (WO2022/101491)
[30] GB (2017957.8) 2020-11-14

[21] **3,198,952**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **GEL, OINTMENT, AND FOAM FORMULATIONS OF TAPINAROF AND METHODS OF USE**

[54] **FORMULATIONS SOUS FORME DE GEL, DE POMMADE ET DE MOUSSE DE TAPINAROF ET PROCEDES D'UTILISATION**

[72] KALLURI, HARIPRIYA, US
[72] CATUBIG, REINILDA, AU
[72] ROUGHAN, BILJANA, AU
[72] BUCHTA, RICHARD, AU
[72] GUIDALI BONJOUR, FLORENCIA MARIA, GB
[72] BRADY, BRENDAN PHILIP, GB
[72] SUTCLIFFE, LAURA HELEN, GB
[72] JAIN, PIYUSH, US
[72] TABOLT, GLENN, US
[72] RUBENSTEIN, DAVID SCOTT, US
[71] DERMAVANT SCIENCES GMBH, CH

[85] 2023-05-15
[86] 2021-11-23 (PCT/US2021/072574)
[87] (WO2022/109626)
[30] US (63/117,235) 2020-11-23

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[21] **3,198,953**
[13] A1

[51] **Int.Cl. A61K 31/194 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **CYSTAMINE FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS DE CYSTAMINE ET UTILISATIONS DE CELLES-CI**
[72] ZYKOVICH, ARTEM, US
[71] BIRCH THERAPEUTICS, INC., US
[85] 2023-05-15
[86] 2021-11-18 (PCT/US2021/059984)
[87] (WO2022/109198)
[30] US (63/116,137) 2020-11-19

[21] **3,198,955**
[13] A1

[51] **Int.Cl. A42B 3/04 (2006.01)**
[25] EN
[54] **HELMET ACCESSORY MOUNTING SYSTEM**
[54] **SYSTEME DE MONTAGE D'ACCESSOIRE DE CASQUE**
[72] FRANZINO, MICHAEL LAWRENCE, US
[72] BOURQUE, STEPHEN, US
[72] JAMES, SCOTT W., US
[72] BERRY, DANIEL, US
[72] BARBER, ROSS FADE, US
[72] BRUTLER, ZOLTAN S., US
[71] GENTEX CORPORATION, US
[85] 2023-05-15
[86] 2021-11-24 (PCT/US2021/060726)
[87] (WO2022/115531)
[30] US (63/118,510) 2020-11-25

[21] **3,198,961**
[13] A1

[51] **Int.Cl. A23L 33/125 (2016.01)**
[25] EN
[54] **SYNTHETIC COMPOSITIONS COMPRISING LNFP III AND LSTA**
[54] **COMPOSITIONS SYNTHETIQUES COMPRENANT LNFP III ET LSTA**
[72] TRIANTIS, VASSILIOS, NL
[71] FRIESLANDCAMPINA NEDERLAND HOLDING B.V., NL
[85] 2023-05-15
[86] 2021-12-15 (PCT/EP2021/085819)
[87] (WO2022/129124)
[30] EP (20214739.3) 2020-12-16

[21] **3,198,963**
[13] A1

[51] **Int.Cl. A01H 1/04 (2006.01)**
[25] EN
[54] **SELECTION METHODS**
[54] **PROCEDES DE SELECTION**
[72] JIGHLY, ABDULQADER, AU
[72] HAYDEN, MATTHEW JAMES, AU
[72] DAETWYLER, HANS DIETER, AU
[71] AGRICULTURE VICTORIA SERVICES PTY LTD, AU
[85] 2023-05-15
[86] 2021-12-17 (PCT/AU2021/051511)
[87] (WO2022/133518)
[30] AU (2020904770) 2020-12-21

[21] **3,198,977**
[13] A1

[51] **Int.Cl. B67D 7/00 (2010.01) G01F 25/10 (2022.01) F17C 5/00 (2006.01) F17C 5/06 (2006.01) F17C 13/02 (2006.01) G01F 1/00 (2022.01) G01F 15/00 (2006.01)**
[25] EN
[54] **MEASUREMENT SYSTEM FOR DETERMINING A DISPENSED QUANTITY OF HYDROGEN AND METHOD THEREFOR**
[54] **SYSTEME DE MESURE PERMETTANT DE DETERMINER UNE QUANTITE DISTRIBUEE D'HYDROGENE ET PROCEDE ASSOCIE**
[72] MANDT, JESSICA, DE
[72] STOCKLE, CHRISTIAN, DE
[72] STEUER, THOMAS, DE
[71] ITS INGENIEURBURO T. STEUER, DE
[71] TRIGASDM GMBH, DE
[85] 2023-05-15
[86] 2021-11-18 (PCT/EP2021/082128)
[87] (WO2022/117356)
[30] EP (20211219.9) 2020-12-02

[21] **3,198,985**
[13] A1

[51] **Int.Cl. A23F 5/04 (2006.01) A23F 5/08 (2006.01) A23F 5/12 (2006.01) B03C 3/011 (2006.01) B03C 3/017 (2006.01) B03C 3/019 (2006.01) B03C 3/08 (2006.01) B03C 3/09 (2006.01) B03C 3/12 (2006.01) B03C 3/36 (2006.01) B03C 3/41 (2006.01) B03C 3/47 (2006.01) B03C 3/68 (2006.01) B03C 3/78 (2006.01)**
[25] EN
[54] **METHOD TO ROAST COFFEE BEANS**
[54] **PROCEDE DE TORREFACTION DE GRAINS DE CAFE**
[72] DUBIEF, FLAVIEN FLORENT, CH
[72] DEGREEF, THOMAS RUDI S., BE
[72] BAEKELANDT, MAXIME, BE
[72] MOREND, JOEL, CH
[72] CELIS, MICHIEL ALEXANDER, BE
[72] LEMMENS, RIEN DENISE M., BE
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2023-05-15
[86] 2021-12-06 (PCT/EP2021/084441)
[87] (WO2022/128580)
[30] EP (20215341.7) 2020-12-18

[21] **3,198,988**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61P 25/00 (2006.01) C12N 15/58 (2006.01)**
[25] EN
[54] **METHOD AND DRUG FOR INCREASING BDNF LEVEL**
[54] **PROCEDE ET MEDICAMENT POUR AUGMENTER LE TAUX DE BDNF**
[72] LI, JINAN, CN
[71] TALENGEN INTERNATIONAL LIMITED, CN
[85] 2023-05-15
[86] 2021-11-17 (PCT/CN2021/131184)
[87] (WO2022/105788)
[30] CN (PCT/CN2020/129460) 2020-11-17

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| [51] Int.Cl. A01K 11/00 (2006.01) G06K 7/10 (2006.01) G06K 19/07 (2006.01) G06K 19/077 (2006.01) | [51] Int.Cl. C12N 15/10 (2006.01) G01N 33/537 (2006.01) G01N 33/68 (2006.01) | [51] Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 19/00 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) |
| [25] EN | [25] EN | [25] EN |
| [54] IDENTIFICATION TAG, IDENTIFICATION TAG ACCESSORY, AND METHODS AND SYSTEMS FOR USING AN IDENTIFICATION TAG AND IDENTIFICATION TAG ACCESSORY | [54] FLOW CYTOMETRY ATTENUATED REPORTER EXPRESSION (FLARE) MULTIPLE REPORTER SYSTEM AND METHODS OF USE THEREOF | [54] ANTI-CD25 ANTIBODIES ANTICORPS ANTI-CD25 |
| [54] ETIQUETTE D'IDENTIFICATION, ACCESSOIRE D'ETIQUETTE D'IDENTIFICATION, ET PROCEDES ET SYSTEMES D'UTILISATION D'UNE ETIQUETTE D'IDENTIFICATION ET ACCESSOIRE D'ETIQUETTE D'IDENTIFICATIO | [54] SYSTEME RAPPORTEUR MULTIPLE A EXPRESSION RAPPORTEUR ATTENUUEE PAR CYTOMETRIE DE FLUX ET PROCEDES D'UTILISATION DE CELUI-CI | [72] OLIVE, DANIEL, FR |
| [72] VON KALDENBERG, ALEXANDER, CA | [72] CAIRNS, VICTOR R., US | [72] BENSUSSAN, ARMAND, FR |
| [72] TURNBULL, ADAM, CA | [72] RECZEK, DAVID, US | [72] GIUSTINIANI, JEROME, FR |
| [72] OZENNE, PATRICK, FR | [72] VITKO, JASON, US | [72] MARIE-CARDINE, ANNE, FR |
| [72] LLABRES LLAMBIAS, CRISTINA, ES | [71] GENZYME CORPORATION, US | [72] FOUSSAT, ARNAUD, FR |
| [71] GOCHIP PET TECHNOLOGY INC., CA | [85] 2023-05-15 | [72] HOUACINE, JEMILA, FR |
| [85] 2023-05-15 | [86] 2021-11-18 (PCT/US2021/059946) | [71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR |
| [86] 2021-11-29 (PCT/CA2021/051705) | [87] (WO2022/109172) | [71] INSTITUT JEAN PAOLI & IRENE CALMETTES, FR |
| [87] (WO2022/109752) | [30] US (63/116,094) 2020-11-19 | [71] ALDERAAN BIOTECHNOLOGY, FR |
| [30] US (63/118,783) 2020-11-27 | | [71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR |
| | [21] 3,199,005 [13] A1 | [71] UNIVERSITE D'AIX MARSEILLE, FR |
| | [51] Int.Cl. A61K 31/519 (2006.01) C07D 487/02 (2006.01) C07D 487/04 (2006.01) | [71] UNIVERSITE PARIS CITE, FR |
| | [25] EN | [71] UNIVERSITE PARIS EST CRETEIL VAL DE MARNE, FR |
| | [54] FGFR INHIBITORS AND METHODS OF MAKING AND USING THE SAME | [85] 2023-05-15 |
| | [54] INHIBITEURS DE FGFR ET LEURS PROCEDES DE PREPARATION ET LEURS METHODES D'UTILISATION | [86] 2021-11-19 (PCT/EP2021/082383) |
| | [72] LESCARBEAU, ANDRE, US | [87] (WO2022/106665) |
| | [72] BEAMISH-COOK, JETHRO, GB | [30] EP (20306424.1) 2020-11-20 |
| | [72] PRENTICE, ZOE, GB | |
| | [72] KENDALL, THOMAS, GB | [21] 3,199,011 [13] A1 |
| | [72] DUMAS, AARON, GB | [51] Int.Cl. H01L 21/18 (2006.01) H01L 29/778 (2006.01) |
| | [72] ISAAK, ELISABETH, GB | [25] EN |
| | [72] TRINCHERA, PIERA, GB | [54] MULTI-THRESHOLD VOLTAGE GALLIUM NITRIDE HIGH ELECTRON MOBILITY TRANSISTOR |
| | [72] ZHURAKOVSKYI, OLEKSANDR, GB | [54] TRANSISTOR A HAUTE MOBILITE D'ELECTRONS A BASE DE NITRURE DE GALLIUM A TENSION A SEUILS MULTIPLES |
| | [72] SULEIMAN, OSAMA, GB | [72] LOGHMANY, ALIREZA, CA |
| | [71] RELAY THERAPEUTICS, INC., US | [72] AL ALAM, ELIAS, CA |
| | [85] 2023-05-15 | [71] NATIONAL RESEARCH COUNCIL OF CANADA, CA |
| | [86] 2021-11-18 (PCT/US2021/072480) | [85] 2023-05-15 |
| | [87] (WO2022/109577) | [86] 2021-11-02 (PCT/IB2021/060138) |
| | [30] US (63/115,319) 2020-11-18 | [87] (WO2022/101736) |
| [21] 3,198,998 [13] A1 | | [30] US (63/114,203) 2020-11-16 |
| [51] Int.Cl. H01B 12/06 (2006.01) H01B 12/14 (2006.01) H01B 12/16 (2006.01) | | |
| [25] EN | | |
| [54] CONDUCTOR SYSTEMS FOR SUSPENDED OR UNDERGROUND TRANSMISSION LINES | | |
| [54] SYSTEMES CONDUCTEURS POUR LIGNES DE TRANSMISSION SUSPENDUES OU SOUTERRAINES | | |
| [72] ASHWORTH, STEPHEN PAUL, US | | |
| [72] MORICONI, FRANCO, US | | |
| [72] HEIDEL, TIMOTHY DAVID, US | | |
| [71] VEIR, INC., US | | |
| [85] 2023-05-15 | | |
| [86] 2021-11-11 (PCT/US2021/058928) | | |
| [87] (WO2022/108820) | | |
| [30] US (63/115,348) 2020-11-18 | | |

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| [51] Int.Cl. A61K 38/08 (2019.01) A61K 47/64 (2017.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/04 (2006.01) C07K 16/28 (2006.01) | [51] Int.Cl. A24F 15/01 (2020.01) A24F 40/51 (2020.01) A24F 40/95 (2020.01) | [51] Int.Cl. H01L 21/77 (2017.01) H01L 29/778 (2006.01) |
| [25] EN | [25] EN | [25] EN |
| [54] METHOD OF SENSITIZING CANCERS TO IMMUNOTHERAPY USING IMMUNOMODULATORY AGENTS | [54] CASE FOR AN AEROSOL DELIVERY DEVICE | [54] MONOLITHIC INTEGRATION OF ENHANCEMENT-MODE AND DEPLETION-MODE GALIUM NITRIDE HIGH ELECTRON MOBILITY TRANSISTORS |
| [54] PROCEDE DE SENSIBILISATION DE CANCERS A UNE IMMUNOTHERAPIE A L'AIDE D'AGENTS IMMUNOMODULATEURS | [54] BOITIER POUR UN DISPOSITIF DE DISTRIBUTION D'AEROSOL | [54] INTEGRATION MONOLITHIQUE DE TRANSISTORS A MOBILITE D'ELECTRONS ELEVEE A BASE DE NITRURE DE GALLIUM A MODE D'ENRICHISSEMENT ET A MODE D'APPAUVRISSMENT |
| [72] SUGAHARA, KAZUKI, US | [72] LAI, SAM, GB | [72] AL-ALAM, ELIAS, CA |
| [72] LOWY, ANDREW M., US | [72] VINTOLA, TOMI, GB | [72] LOGHMANY, ALIREZA, CA |
| [71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US | [71] NICOVENTURES TRADING LIMITED, GB | [71] NATIONAL RESEARCH COUNCIL OF CANADA, CA |
| [71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US | [85] 2023-05-15 | [85] 2023-05-15 |
| [85] 2023-05-15 | [86] 2021-12-13 (PCT/GB2021/053258) | [86] 2021-11-03 (PCT/IB2021/060186) |
| [86] 2021-12-01 (PCT/US2021/072666) | [87] (WO2022/129875) | [87] (WO2022/101740) |
| [87] (WO2022/120344) | [30] GB (2019673.9) 2020-12-14 | [30] US (63/114,239) 2020-11-16 |
| [30] US (63/119,963) 2020-12-01 | [21] 3,199,020 [13] A1 | [21] 3,199,024 [13] A1 |
| | [51] Int.Cl. A24F 15/01 (2020.01) A24F 40/50 (2020.01) A24F 40/65 (2020.01) H04M 1/72403 (2021.01) | [51] Int.Cl. C07K 14/48 (2006.01) |
| | [25] EN | [25] EN |
| | [54] A CASE FOR AN AEROSOL DELIVERY DEVICE | [54] METHOD AND DRUG FOR INCREASING NGF LEVEL |
| | [54] BOITIER POUR UN DISPOSITIF DE DISTRIBUTION D'AEROSOL | [54] PROCEDE ET MEDICAMENT POUR AUGMENTER LE TAUX DE NGF |
| | [72] MASHI-UD-DIN, MOHSIN, GB | [72] LI, JINAN, CN |
| | [71] NICOVENTURES TRADING LIMITED, GB | [71] TALENGEN INTERNATIONAL LIMITED, CN |
| | [85] 2023-05-15 | [85] 2023-05-15 |
| | [86] 2021-12-13 (PCT/GB2021/053260) | [86] 2021-11-17 (PCT/CN2021/131185) |
| | [87] (WO2022/129877) | [87] (WO2022/105789) |
| | [30] GB (2019675.4) 2020-12-14 | [30] CN (PCT/CN2020/129459) 2020-11-17 |
| [21] 3,199,014 [13] A1 | | |
| [51] Int.Cl. A61K 31/381 (2006.01) A61K 31/519 (2006.01) A61P 1/16 (2006.01) | | |
| [25] EN | | |
| [54] COMBINATION THERAPY FOR THE TREATMENT OF A LIVER DISEASE | | |
| [54] POLYTHERAPIE POUR LE TRAITEMENT D'UNE HEPATOPATHIE | | |
| [72] WETTSTEIN, GUILLAUME, FR | | |
| [72] BROQUA, PIERRE, FR | | |
| [71] INVENTIVA, FR | | |
| [85] 2023-05-15 | | |
| [86] 2021-11-16 (PCT/EP2021/081838) | | |
| [87] (WO2022/106412) | | |
| [30] EP (20306394.6) 2020-11-17 | | |

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[21] **3,199,030**
[13] A1

[51] **Int.Cl. C07D 239/54 (2006.01) A01N 43/54 (2006.01) A01N 57/24 (2006.01) C07D 239/553 (2006.01) C07D 239/70 (2006.01) C07D 239/96 (2006.01) C07D 413/04 (2006.01) C07D 417/04 (2006.01)**

[25] EN

[54] **URACIL COMPOUND CONTAINING CARBOXYLATE FRAGMENT, PREPARATION METHOD THEREFOR, AND HERBICIDAL COMPOSITION AND USE THEREOF**

[54] **COMPOSE URACILE CONTENANT UN FRAGMENT CARBOXYLATE ET SON PROCEDE DE PREPARATION, COMPOSITION HERBICIDE ET UTILISATION**

[72] ZHANG, PU, CN
[72] YAO, KAICHENG, CN
[72] WU, YAOJUN, CN
[72] XU, DAN, CN
[72] QIAN, PIN, CN
[72] BU, LONG, CN
[72] BAI, CONGQIANG, CN
[71] JIANGSU FLAG CHEMICAL INDUSTRY CO., LTD., CN

[85] 2023-05-15
[86] 2022-02-05 (PCT/CN2022/075322)
[87] (WO2022/166938)
[30] CN (202110167827.1) 2021-02-07

[21] **3,199,043**
[13] A1

[51] **Int.Cl. A24F 40/57 (2020.01)**

[25] EN

[54] **CLOSED-LOOP CONTROL OF TEMPERATURE AND PRESSURE SENSING FOR AN AEROSOL PROVISION DEVICE**

[54] **COMMANDE EN BOUCLE FERMEE DE DETECTION DE TEMPERATURE ET DE PRESSION POUR UN DISPOSITIF DE FOURNITURE D'AEROSOL**

[72] CARMAN, SKY, US
[71] RAI STRATEGIC HOLDINGS, INC., US

[85] 2023-05-15
[86] 2021-11-15 (PCT/IB2021/060567)
[87] (WO2022/101878)
[30] US (17/099,178) 2020-11-16

[21] **3,199,047**
[13] A1

[51] **Int.Cl. B02C 19/18 (2006.01) E21B 7/24 (2006.01) E21B 19/16 (2006.01) E21C 37/18 (2006.01)**

[25] EN

[54] **CONFIGURABLE ELECTROCRUSHING MINING APPARATUS**

[54] **APPAREIL CONFIGURABLE D'EXPLOITATION MINIERE PAR ELECTROBROYAGE**

[72] MOENY, WILLIAM M., US
[72] SMALL, JAMES G., US
[72] PRONKO, STEVEN G. E., US
[71] SDG LLC, US

[85] 2023-05-15
[86] 2021-11-17 (PCT/US2021/059768)
[87] (WO2022/109056)
[30] US (63/114,915) 2020-11-17

[21] **3,199,048**
[13] A1

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/08 (2006.01) A01N 25/14 (2006.01) A01N 25/22 (2006.01) A01N 37/44 (2006.01) A01P 7/04 (2006.01)**

[25] EN

[54] **TAU-FLUVALINATE COMPOSITIONS**

[54] **COMPOSITIONS DE TAU-FLUVALINATE**

[72] HEVRONI, LIRON, IL
[72] MEIRON, OREN, IL
[72] SILBERT, GILAD, IL
[71] ADAMA MAKHTESHIM LTD., IL

[85] 2023-05-15
[86] 2021-11-22 (PCT/IB2021/060834)
[87] (WO2022/107098)
[30] US (63/117,424) 2020-11-23

[21] **3,199,104**
[13] A1

[51] **Int.Cl. G01N 27/49 (2006.01)**

[25] EN

[54] **METHOD FOR DETECTING AND/OR QUANTIFYING A METAL ELEMENT IN A BIOLOGICAL LIQUID**

[54] **PROCEDE POUR LA DETECTION ET/OU LA QUANTIFICATION D'UN ELEMENT METALLIQUE DANS UN LIQUIDE BIOLOGIQUE**

[72] MAZZARACCHIO, VINCENZO, IT
[72] ARDUINI, FABIANA, IT
[72] MOSCONE, DANILA, IT
[72] CHIARA, FRANCESCO, IT
[72] ROGGERO, SIMONA, IT
[71] CARDIOVASCULAR LAB S.R.L., IT

[85] 2023-05-16
[86] 2021-11-17 (PCT/IB2021/060659)
[87] (WO2022/107019)
[30] IT (10202000027546) 2020-11-17

[21] **3,199,106**
[13] A1

[51] **Int.Cl. F16B 21/18 (2006.01) F16L 17/02 (2006.01) F16L 21/03 (2006.01) F16L 37/084 (2006.01)**

[25] EN

[54] **SEALING GASKET FOR DUCTILE IRON PIPE AND METHOD OF MANUFACTURE**

[54] **JOINT D'ETANCHEITE POUR TUYAU EN FER MALLEABLE ET PROCEDE DE FABRICATION**

[72] PACHECO, RODNEY, CR
[72] QUESADA, GUIDO, CR
[72] ROJAS, BERNAL, CR
[72] CORBETT, JR. BRADFORD G., US
[71] S & B TECHNICAL PRODUCTS, INC., US

[85] 2023-05-16
[86] 2021-11-19 (PCT/US2021/060052)
[87] (WO2022/115321)
[30] US (63/117,568) 2020-11-24
[30] US (17/530,555) 2021-11-19

Demandes PCT entrant en phase nationale

[21] **3,199,108**
[13] A1

[51] **Int.Cl. G16H 20/10 (2018.01) G16H 20/17 (2018.01) G16H 40/60 (2018.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01)**

[25] EN

[54] **AUTO-PROGRAMMING REQUEST REJECTION REDUCTION**

[54] **REDUCTION DE REJET DE DEMANDE DE PROGRAMMATION AUTOMATIQUE**

[72] KNIGHT, CLAIRE ELLEN, US

[72] DIGGETT, LISA, US

[72] WORKMAN, MICHAEL K., US

[72] CHEN, EVAN, US

[71] CAREFUSION 303, INC., US

[85] 2023-05-16

[86] 2021-11-17 (PCT/US2021/059746)

[87] (WO2022/109042)

[30] US (63/115,498) 2020-11-18

[21] **3,199,110**
[13] A1

[51] **Int.Cl. B29C 70/38 (2006.01) B29C 53/04 (2006.01) B29C 70/44 (2006.01) B29C 70/46 (2006.01) B29C 70/54 (2006.01) B64C 1/06 (2006.01) B64C 3/18 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR MANUFACTURING A STRUCTURAL ELEMENT IN COMPOSITE MATERIAL WITH A Z-SHAPED PROFILE**

[54] **PROCEDE ET DISPOSITIF DE FABRICATION D'UN ELEMENT STRUCTURAL EN MATERIAU COMPOSITE A PROFIL EN FORME DE Z**

[72] GALLO, NICOLA, IT

[72] CORVAGLIA, STEFANO GIUSEPPE, IT

[72] MIANI, NICOLA, IT

[72] MONOPOLI, LUCA, IT

[72] RUBERTO, ANTONIO, IT

[72] BARILE, MARCO, IT

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

[85] 2023-05-16

[86] 2021-11-23 (PCT/IB2021/060870)

[87] (WO2022/107109)

[30] IT (10202000028046) 2020-11-23

[21] **3,199,112**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR OPTIMIZING BUSINESS WORKFLOWS**

[54] **SYSTEMES ET PROCEDES PERMETTANT D'OPTIMISER DES FLUX DE TRAVAIL D'ENTREPRISE**

[72] SABOURIN, CHRISTOPHER, US

[71] FLOWPATTERNS, INC., US

[85] 2023-05-16

[86] 2021-11-18 (PCT/US2021/059917)

[87] (WO2022/109153)

[30] US (63/115,740) 2020-11-19

[21] **3,199,113**
[13] A1

[51] **Int.Cl. H01H 1/58 (2006.01) H01R 24/76 (2011.01)**

[25] EN

[54] **ELECTRICAL BOX WITH INTERNAL CONDUCTIVE ELEMENTS**

[54] **BOITE ELECTRIQUE AVEC ELEMENTS CONDUCTEURS INTERNES**

[72] RICE, DANIEL, US

[71] RICE, DANIEL, US

[85] 2023-05-16

[86] 2021-11-17 (PCT/US2021/059796)

[87] (WO2022/109074)

[30] US (63/115,085) 2020-11-18

[30] US (63/149,559) 2021-02-15

[21] **3,199,114**
[13] A1

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

[25] EN

[54] **METHODS AND GENOMIC CLASSIFIERS FOR IDENTIFYING HOMOLOGOUS RECOMBINATION DEFICIENCY PROSTATE CANCER**

[54] **PROCEDES ET CLASSIFICATEURS GENOMIQUES POUR IDENTIFIER UN CANCER DE LA DE LA PROSTATE A DEFICIENCE EN RECOMBINAISON HOMOLOGUE**

[72] SCHAEFFER, EDWARD MATTHEW, US

[72] LIU, YANG, US

[72] DAVICIONI, ELAI, US

[72] WEINER, ADAM BENJAMIN, US

[71] DECIPHER BIOSCIENCES, INC., US

[71] NORTHWESTERN UNIVERSITY, US

[85] 2023-05-16

[86] 2021-11-18 (PCT/US2021/059873)

[87] (WO2022/109125)

[30] US (63/116,734) 2020-11-20

[21] **3,199,116**
[13] A1

[51] **Int.Cl. G05F 1/56 (2006.01) H02M 1/00 (2007.10)**

[25] EN

[54] **APPARATUS, METHOD AND SYSTEM FOR ADJUSTING VOLTAGE STABILIZATION OUTPUT OF POWER SOURCE**

[54] **APPAREIL, PROCEDE ET SYSTEME DE REGLAGE DE LA SORTIE DE STABILISATION DE TENSION D'UNE SOURCE D'ALIMENTATION**

[72] WANG, CHAO, CN

[71] CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD., CN

[85] 2023-05-16

[86] 2021-07-08 (PCT/CN2021/105194)

[87] (WO2022/105254)

[30] CN (202011286849.1) 2020-11-17

PCT Applications Entering the National Phase

[21] **3,199,117**
[13] A1

[51] **Int.Cl. G01C 21/00 (2006.01) G01S 17/894 (2020.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETERMINING POSITIONS ON THE GROUND FROM AN AERIAL VEHICLE**

[54] **PROCEDE ET SYSTEME DE DETERMINATION DE POSITION AU SOL DEPUIS UN VEHICULE AERIEN**

[72] SEUBE, NICOLAS, FR
[72] MUGNER, ELLIOT, FR
[71] MDGROUP GERMANY GMBH, DE
[85] 2023-05-16
[86] 2021-11-22 (PCT/EP2021/082442)
[87] (WO2022/106674)
[30] EP (20209260.7) 2020-11-23

[21] **3,199,121**
[13] A1

[51] **Int.Cl. E21B 43/267 (2006.01) E21B 47/10 (2012.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR ESTIMATING AN EFFECTIVE LEAK-OFF COEFFICIENT OF NATURAL FRACTURES IN A NATURALLY FRACTURED RESERVOIR**

[54] **PROCEDE ET SYSTEME D'ESTIMATION D'UN COEFFICIENT DE FUITE EFFECTIVE DE FRACTURES NATURELLES DANS UN RESERVOIR NATURELLEMENT FRACTURE**

[72] LEEM, JUNGHUN, MY
[72] MUSA, IKHWANUL HAFIZI, MY
[72] TAN, CHEE PHUAT, MY
[72] BIN CHE YUSOFF, MUHAMAD FAKHARUDDIN, MY
[72] MD ZAIN @ MD DIN, ZAHIDAH, MY
[72] KEAR, JAMES, AU
[72] CHEN, ZUORONG, AU
[72] KASPERCZYK, DANE, AU
[72] NGUYEN, DANG QUAN, AU
[72] HEATHERTON, LACHLAN, AU
[72] SALIMZADEH, SAEED, AU
[71] PETROLIAM NASIONAL BERHAD (PETRONAS), MY
[85] 2023-05-16
[86] 2022-01-10 (PCT/MY2022/050001)
[87] (WO2022/149976)
[30] MY (PI2021000164) 2021-01-11

[21] **3,199,123**
[13] A1

[51] **Int.Cl. A24C 5/60 (2006.01) A24D 1/02 (2006.01)**

[25] EN

[54] **ROLLING PAPER AND METHODS OF MAKING SAME**

[54] **PAPIER A ROULER ET PROCEDES DE FABRICATION ASSOCIES**

[72] PE?A, JUAN, US
[72] GUZMAN, RAFAEL, US
[72] JOINT, PATRICK, US
[72] DIAZ, LUIS, US
[72] FRETT, PATRICK, US
[72] GUZMAN, KENNY, US
[71] SPLIFF ENTERPRISE LLC, US
[85] 2023-05-16
[86] 2021-11-18 (PCT/US2021/059914)
[87] (WO2022/109151)
[30] US (17/100,110) 2020-11-20

[21] **3,199,125**
[13] A1

[51] **Int.Cl. G05D 1/06 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR CONTROLLING THE FLIGHT PATH OF AN AERIAL VEHICLE**

[54] **PROCEDE ET SYSTEME POUR CONTROLER LA TRAJECTOIRE DE VOL D'UN VEHICULE AERIEN**

[72] SEUBE, NICOLAS, DE
[72] MUGNER, ELLIOT, DE
[72] PONTZ, MICHAEL, DE
[72] DARMAYAN, FRANCOIS, DE
[71] MDGROUP GERMANY GMBH, DE
[85] 2023-05-16
[86] 2021-12-08 (PCT/EP2021/084771)
[87] (WO2022/122815)
[30] EP (20212818.7) 2020-12-09

[21] **3,199,126**
[13] A1

[51] **Int.Cl. C12N 15/77 (2006.01) C12P 13/06 (2006.01) C12P 13/08 (2006.01)**

[25] EN

[54] **MUTANT ATP-DEPENDENT PROTEASE, AND METHOD FOR PRODUCING L-AMINO ACID USING SAME**

[54] **PROTEASE MUTANTE ATP-DEPENDANTE, ET PROCEDE DE PRODUCTION DE L-ACIDE AMINE L'UTILISANT**

[72] YOON, BYOUNG HOON, KR
[72] KIM, SEON HYE, KR
[72] BAE, JEE YEON, KR
[72] CHOI, SUN HYOUNG, KR
[72] KIM, KYUNGRIM, KR
[72] KIM, HYUNG JOON, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2023-05-16
[86] 2021-07-12 (PCT/KR2021/008881)
[87] (WO2022/124511)
[30] KR (10-2020-0173802) 2020-12-11

[21] **3,199,129**
[13] A1

[51] **Int.Cl. C07D 243/14 (2006.01) A61K 31/5513 (2006.01) C07D 405/04 (2006.01)**

[25] EN

[54] **DEUTERATED 1,4-BENZODIAZEPINE-2,5-DIONE COMPOUND AND USE THEREOF**

[54] **COMPOSE 1,4-BENZODIAZEPINE-2,5-DIONE DEUTERE ET SON UTILISATION**

[72] LIU, GANG, CN
[72] MA, YAO, CN
[72] YU, WENJUN, CN
[71] NINGBO COMBIREG PHARMACEUTICAL TECHNOLOGY CO., LTD., CN
[85] 2023-05-16
[86] 2021-10-25 (PCT/CN2021/125995)
[87] (WO2022/105542)
[30] CN (202011287532.X) 2020-11-17

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[21] **3,199,133**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/68 (2017.01) A61K 38/05 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **ANTI-CD6 ANTIBODY CONJUGATES FOR TREATING T-CELL AND B-CELL MEDIATED DISORDERS, AND T-CELL AND B-CELL CANCERS**

[54] **CONJUGUES D'ANTICORPS ANTI-CD6 POUR TRAITER DES TROUBLES A MEDIATION PAR LES LYMPHOCYTES T ET LES LYMPHOCYTES B, ET CANCERS DES LYMPHOCYTES T ET DES LYMPHOCYTES B**

[72] LIN, FENG, US

[71] THE CLEVELAND CLINIC FOUNDATION, US

[85] 2023-05-16

[86] 2021-11-16 (PCT/US2021/059482)

[87] (WO2022/104247)

[30] US (63/114,300) 2020-11-16

[21] **3,199,134**
[13] A1

[51] **Int.Cl. B25C 1/04 (2006.01) B25D 9/02 (2006.01) B25D 17/06 (2006.01) E21B 23/00 (2006.01)**

[25] EN

[54] **UNIVERSAL QUICK-CHANGE ADAPTER**

[54] **ADAPTATEUR A CHANGEMENT RAPIDE UNIVERSEL**

[72] HURT, DANIEL IRVIN, US

[72] HURT, JUSTIN IRVIN, US

[71] HURT, DANIEL IRVIN, US

[71] HURT, JUSTIN IRVIN, US

[85] 2023-05-16

[86] 2021-11-17 (PCT/US2021/072455)

[87] (WO2022/109557)

[30] US (63/115,111) 2020-11-18

[30] US (17/455,088) 2021-11-16

[21] **3,199,136**
[13] A1

[51] **Int.Cl. C01B 33/18 (2006.01)**

[25] EN

[54] **METHODS FOR PRODUCING SEED FOR GROWTH OF HOLLOW SPHERES**

[54] **PROCEDES DE PRODUCTION DE GRAINS POUR LA CROISSANCE DE SPHERES CREUSES**

[72] LYNCH, DAVID CHARLES, US

[71] PLASSEIN TECHNOLOGIES LTD. LLC, US

[85] 2023-05-16

[86] 2021-11-19 (PCT/US2021/060173)

[87] (WO2022/109321)

[30] US (63/116,057) 2020-11-19

[21] **3,199,138**
[13] A1

[51] **Int.Cl. A61K 31/4192 (2006.01) A61K 47/54 (2017.01) A61K 45/06 (2006.01)**

[25] EN

[54] **THERAPIES FOR CANCER USING SMALL MOLECULES THAT BIND TO AND INHIBIT RAL INTERACTING PROTEINS**

[54] **THERAPIES POUR LE CANCER A L'AIDE DE PETITES MOLECULES QUI SE LIENT A ET INHIBENT DES PROTEINES INTERAGISSANT AVEC RAL**

[72] AWASTHI, SANJAY, US

[72] SINGH, SHARDA, US

[71] TEXAS TECH UNIVERSITY SYSTEM, US

[85] 2023-05-16

[86] 2021-10-29 (PCT/US2021/057218)

[87] (WO2022/108730)

[30] US (63/115,190) 2020-11-18

[21] **3,199,139**
[13] A1

[51] **Int.Cl. F24F 13/06 (2006.01) F24F 13/065 (2006.01) F24F 13/14 (2006.01)**

[25] EN

[54] **NOZZLE FOR AIR DUCT**

[54] **BUSE POUR UN CONDUIT D'AIR**

[72] PRIHODA, ZDENEK, CZ

[71] PRIHODA S.R.O., CZ

[85] 2023-05-16

[86] 2021-12-14 (PCT/CZ2021/050150)

[87] (WO2022/127950)

[30] CZ (PV 2020-676) 2020-12-14

[21] **3,199,140**
[13] A1

[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/60 (2020.01)**

[25] EN

[54] **ELECTRONIC AEROSOL PROVISION SYSTEM**

[54] **SYSTEME ELECTRONIQUE DE FOURNITURE D'AEROSOL**

[72] AZZOPARDI, ANNA, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2023-05-16

[86] 2021-11-26 (PCT/GB2021/053077)

[87] (WO2022/112781)

[30] GB (2018721.7) 2020-11-27

[21] **3,199,141**
[13] A1

[51] **Int.Cl. A01G 9/12 (2006.01) A01G 17/04 (2006.01) B65H 75/40 (2006.01)**

[25] EN

[54] **DEVICE FOR PLANT STAKING**

[54] **DISPOSITIF POUR LE TUTEURAGE DE PLANTES**

[72] GRANADOS PUGA, GERMAN, ES

[71] GP TECNIC SL, ES

[85] 2023-05-16

[86] 2021-11-16 (PCT/ES2021/070826)

[87] (WO2022/106739)

[30] ES (P202031156) 2020-11-17

[21] **3,199,142**
[13] A1

[51] **Int.Cl. F17C 9/02 (2006.01) F17C 13/02 (2006.01)**

[25] FR

[54] **METHOD AND SYSTEM FOR ASSISTING THE MANAGEMENT OF A LIQUEFIED GAS TRANSPORT SHIP OF THE TYPE CONSUMING EVAPORATED GAS FOR ITS PROPULSION**

[54] **PROCEDE ET SYSTEME D'AIDE A LA GESTION D'UN NAVIRE DE TRANSPORT DE GAZ LIQUEFIE DU TYPE CONSOMMANT DU GAZ D'EVAPORATION POUR SA PROPULSION**

[72] BORDET, NICOLAS, FR

[72] HANAT, FRANCOIS, FR

[72] GENTILINI, ERIC, FR

[72] VOLUT, MIKAEL, FR

[71] GAZTRANSPORT ET TECHNIGAZ, FR

[85] 2023-05-16

[86] 2021-12-03 (PCT/EP2021/084268)

[87] (WO2022/117872)

[30] FR (FR2012627) 2020-12-03

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| [21] 3,199,144 [13] A1 | [21] 3,199,146 [13] A1 | [21] 3,199,147 [13] A1 |
|--|---|--|
| [51] Int.Cl. A01G 17/16 (2006.01) [25] FR [54] COUPLED MULTI-PURPOSE DEVICE, FOR THE RUNNING INSTALLATION OF VINEYARD ACCESSORIES, IN PARTICULAR STAKES | [51] Int.Cl. A61M 60/13 (2021.01) A61M 60/221 (2021.01) A61M 60/419 (2021.01) A61M 60/865 (2021.01) [25] EN [54] PURGELESS MECHANICAL CIRCULATORY SUPPORT SYSTEM WITH MAGNETIC DRIVE | [51] Int.Cl. G07C 9/30 (2020.01) G06V 20/52 (2022.01) G06V 40/20 (2022.01) G06N 3/02 (2006.01) G06N 3/08 (2023.01) [25] EN [54] AUTONOMOUS SELF-LEARNING ARTIFICIAL INTELLIGENCE INTENT SYSTEM FOR ACCESS CONTROL |
| [54] DISPOSITIF MULTIFONCTIONS ATTELE, POUR L'IMPLANTATION AU DEFILE D'ACCESSOIRES POUR LA VIGNE, NOTAMMENT DES PIQUETS | [54] SYSTEME DE SUPPORT CIRCULATOIRE MECANIQUE SANS PURGE A ENTRAINEMENT MAGNETIQUE | [54] SYSTEME AUTONOME D'INTENTION D'INTELLIGENCE ARTIFICIELLE A AUTO-APPRENTISSAGE POUR COMMANDE D'ACCES |
| [72] MANDRAFINA, GEORGES, PT [71] MANDRAFINA, GEORGES, PT [85] 2023-05-16 [86] 2021-11-16 (PCT/EP2021/081778) [87] (WO2022/101493) [30] FR (2011704) 2020-11-16 [30] FR (2011705) 2020-11-16 | [72] MITZE, MARVIN, DE [72] CHRISTOF, HANS, DE [72] POPOV, VLADIMIR, DE [72] SCHWARZ, MARTIN, DE [72] WENNING, LEON, DE [72] BETTE, JOHANNES, DE [72] FABIUNKE, ATILA, DE [72] GERLACH, SINA, DE [72] STIGLOHER, JOHANNES, DE [72] GORRIES, JULIAN, DE [72] SCHOFER, JAN, DE [72] REX, VALENTIN, DE [72] BERNER, JOHANNES, DE [72] EHNI, BERNHARD, DE [72] FERCH, JOHANNES, DE [72] LULEY, HANS-BALDUNG, DE [72] DOHRING, TOM, DE [72] BURGHAUS, JENS, DE [72] SCHELLENBERG, INGA, DE [72] BAUMBACH, HARDY, DE [72] BACH, ANNIKA, DE [72] STOTZ, INGO, DE [72] KASSEL, JULIAN, DE [72] SCHUELKE, ARMIN, DE [72] HENNECK, STEFAN, DE [72] MINZENMAY, DAVID, DE [72] SCHLEBUSCH, THOMAS ALEXANDER, DE [72] SCHMID, TOBIAS, DE [72] PIRK, TJALF, DE [72] BUDDE, MARTINA, DE [72] EHRENPFORDT, RICARDO, DE [72] SCHMID, MARC, DE [72] MANSOUR, AHMAD, DE [72] BAEUERLE, NIKO, DE [72] STRASSWIEMER, RALF, DE [72] VOLLMER, UWE, DE [72] GAERTNER, MANUEL, DE [72] EIBERGER, FABIAN, DE [72] BAECHLE, TOBIAS, DE [72] SCHNEIDER, KARIN, DE [72] WASSERMANN, PETER, DE [71] KARDION GMBH, DE [85] 2023-05-16 [86] 2021-11-18 (PCT/US2021/072498) [87] (WO2022/109590) [30] US (63/116,616) 2020-11-20 [30] US (63/116,686) 2020-11-20 | [72] LIPCHIN, ALEKSEY, US [72] MALAKUTI, KAVEH, CA [72] RUSSO, PIETRO, US [72] WILSON, RON, US [71] MOTOROLA SOLUTIONS, INC, US [85] 2023-05-16 [86] 2021-11-11 (PCT/US2021/072349) [87] (WO2022/120316) [30] US (17/108,852) 2020-12-01 |
| | | [21] 3,199,149 [13] A1 |
| | | [51] Int.Cl. A01K 67/033 (2006.01) [25] FR [54] TRAY FOR FARMING INSECTS, SUITABLE FOR INDUSTRIAL-SCALE FARMING |
| | | [54] BAC D'ELEVAGE D'INSECTES ADAPTE A UN ELEVAGE A ECHELLE INDUSTRIELLE |
| | | [72] COMPARAT, SOLENE, FR [72] SARTON DU JONCHAY, THIBAUT, FR [72] ESCALANTE, PEDRO, ES [71] YNSECT, FR [85] 2023-05-16 [86] 2021-12-03 (PCT/FR2021/052196) [87] (WO2022/123153) [30] FR (FR2012795) 2020-12-07 |

Demandes PCT entrant en phase nationale

[21] **3,199,150**
[13] A1

[51] **Int.Cl. A61M 5/162 (2006.01)**
[25] EN
[54] **SAFETY DRIP CHAMBER SPIKE WITH BREAKABLE FEATURE**
[54] **PERFORATEUR DE SECURITE DE CHAMBRE COMPTE-GOUTTES DOTE D'UN ELEMENT CASSABLE**
[72] TAN, BENJAMIN YANG TECK, SG
[72] NG, MUM PEW, SG
[71] CAREFUSION 303, INC., US
[85] 2023-05-16
[86] 2021-12-06 (PCT/US2021/062045)
[87] (WO2022/125458)
[30] US (17/115,354) 2020-12-08

[21] **3,199,153**
[13] A1

[51] **Int.Cl. A01N 63/00 (2020.01) A23L 31/00 (2016.01) A23L 33/135 (2016.01) A01N 65/00 (2009.01)**
[25] EN
[54] **DESIGNED BACTERIAL COMPOSITIONS FOR TREATING GRAFT-VERSUS-HOST-DISEASE**
[54] **COMPOSITIONS BACTERIENNES CONCUES POUR TRAITER UNE MALADIE DU GREFFON CONTRE L'HOTE**
[72] HENN, MATTHEW R., US
[72] O'BRIEN, EDWARD J., US
[72] PINA, AMBAR, US
[72] VULIC, MARIN, US
[72] FORD, CHRISTOPHER B., US
[72] MARTINEZ, ASUNCION, US
[72] BALASUBRAMANIAN, DIVYA, US
[72] HALVORSEN, ELIZABETH, US
[72] KIESER, KAREN, US
[72] SALEH, MAHMOUD, US
[72] LOMBARDO, MARY-JANE, US
[72] DATTA, SUMON, US
[72] NANDAKUMAR, MADHUMITHA, US
[72] NARENDAR, PRIYANKA, US
[72] BARDHAN, KANKANA, US
[71] SERES THERAPEUTICS, INC., US
[85] 2023-05-16
[86] 2021-11-24 (PCT/US2021/060878)
[87] (WO2022/115646)
[30] US (63/118,639) 2020-11-25

[21] **3,199,156**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR COMBINED ELECTRIC, MAGNETIC, AND CONVECTIVE ACCELERATION OF CHEMICAL AND BIOCHEMICAL REACTIONS AND METHODS OF USE THEREOF**
[54] **SYSTEME D'ACCELERATION COMBINEE ELECTRIQUE ET MAGNETIQUE, ET PAR CONVECTION, DE REACTIONS CHIMIQUES ET BIOCHIMIQUES ET LEURS PROCEDES D'UTILISATION**
[72] HODKO, DALIBOR, US
[72] HODKO, NIVES, US
[72] YAO, ZUXU, US
[71] NEXOGEN, INC., US
[85] 2023-05-16
[86] 2021-11-29 (PCT/US2021/061043)
[87] (WO2022/115723)
[30] US (63/119,421) 2020-11-30
[30] US (63/119,362) 2020-11-30

[21] **3,199,157**
[13] A1

[51] **Int.Cl. A61K 31/416 (2006.01) A61K 31/4355 (2006.01) A61K 31/437 (2006.01) A61K 31/454 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61K 31/635 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **METHODS OF TREATING DISEASES AND DISORDERS**
[54] **METHODES DE TRAITEMENT DE MALADIES ET TROUBLES PULMONAIRES**
[72] VON ROEMELING, REINHARD, US
[72] UGOLKOV, ANDREY, US
[72] MARTELL, ROBERT, US
[71] CURIS, INC., US
[85] 2023-05-16
[86] 2021-11-17 (PCT/US2021/059668)
[87] (WO2022/108996)
[30] US (63/115,317) 2020-11-18

[21] **3,199,158**
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G16H 40/67 (2018.01) G16H 10/60 (2018.01)**
[25] EN
[54] **CRITERIA BASED ALARMS COORDINATION BETWEEN A NETWORK OF MEDICAL DEVICES**
[54] **COORDINATION D'ALARMEES BASEE SUR DES CRITERES ENTRE DES DISPOSITIFS MEDICAUX EN RESEAU**
[72] DIGGET, LISA, US
[72] COLLINS, LAURA ANN, US
[72] KNIGHT, CLAIRE ELLEN, US
[72] WORKMAN, MICHAEL K., US
[71] CAREFUSION 303, INC., US
[85] 2023-05-16
[86] 2021-11-19 (PCT/US2021/060041)
[87] (WO2022/109238)
[30] US (63/116,756) 2020-11-20

[21] **3,199,159**
[13] A1

[51] **Int.Cl. G06Q 40/04 (2012.01) G06Q 10/06 (2023.01)**
[25] EN
[54] **DATA COMMUNICATIONS PROTOCOL PLATFORM**
[54] **PLATEFORME DE PROTOCOLE DE COMMUNICATION DE DONNEES**
[72] LEBOW, ALEXANDER, US
[72] KAUFMAN, MICHAEL, US
[72] VERGARA, PATRICK, US
[72] FREDER, JULIO, US
[72] CRUTTENDEN, JEFFREY, US
[72] ASH, AUSTIN, US
[72] BEAUDOIN, ANDY, US
[72] ERMENIDIS, ALEX, US
[72] GUIMBARDA, MARY, US
[72] HASCOE, ZACH, US
[72] IMUS, CHLOE, US
[72] JAFIAROVA, LEA, US
[72] KAUFFMAN, ZACH, US
[72] MASTYLO, DAMIAN, US
[72] PARENTE, ANTHONY, US
[72] PAULHAC, LAURENT, US
[72] ROSENWALD, JOE, US
[72] SILBER, STEPHEN, US
[72] STANTON, COREY, US
[72] ZUBRICKY, MARC, US
[71] SAY TECHNOLOGIES LLC, US
[85] 2023-05-16
[86] 2021-11-16 (PCT/US2021/059587)
[87] (WO2022/104286)
[30] US (63/114,437) 2020-11-16
[30] US (63/114,403) 2020-11-16

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[21] **3,199,160**
[13] A1

[51] **Int.Cl. A61K 31/573 (2006.01) A61K 31/4545 (2006.01) A61P 37/08 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMBINATION OF A CORTICOSTEROID AND AN ANTIHISTAMINE FOR THE TREATMENT AND CONTROL OF THE INFLAMMATORY COMPONENT OF ALLERGIC PROCESSES**

[54] **COMBINAISON PHARMACEUTIQUE D'UN CORTICOSTEROIDE ET D'UN ANTIHISTAMINIQUE POUR LE TRAITEMENT ET LA REGULATION DU COMPOSANT INFLAMMATOIRE DE PROCESSUS ALLERGIQUES**

[72] MUNOZ MARTINEZ, CECILIA JANNETTE, MX

[72] FARFAN SALAZAR, CLAUDIA DELFINA, MX

[72] ESPINOZA LEON, SIXTO SERAFIN, MX

[72] GONZALEZ CANUDAS, JORGE ALEJANDRO, MX

[72] OLLERVIDES RUBIO, PAOLA YAZMIN, MX

[71] LABORATORIOS SILANES S.A. DE C.V., MX

[85] 2023-05-16

[86] 2020-12-04 (PCT/MX2020/050048)

[87] (WO2022/119428)

[21] **3,199,162**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/51 (2006.01) A61K 31/714 (2006.01)**

[25] EN

[54] **FIXED-DOSE COMBINATION DRUG FOR THE CONTROL AND MANAGEMENT OF NEUROPATHIC PAIN**

[54] **MEDICAMENT DE COMBINAISON FIXE POUR LA LUTTE ET LA PRISE EN CHARGE DE LA DOULEUR NEUROPATHIQUE**

[72] MUNOZ MARTINEZ, CECILIA JANNETTE, MX

[72] GONZALEZ CANUDAS, JORGE ALEJANDRO, MX

[72] OLLERVIDES RUBIO, PAOLA YAZMIN, MX

[72] ESPINOZA LEON, SIXTO SERAFIN, MX

[72] FARFAN SALAZAR, CLAUDIA DELFINA, MX

[71] LABORATORIOS SILANES S.A. DE C.V., MX

[85] 2023-05-16

[86] 2020-12-04 (PCT/MX2020/050049)

[87] (WO2022/119429)

[21] **3,199,164**
[13] A1

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

[25] EN

[54] **MICROFLUIDIC SYSTEM BASED ON ACTIVE CONTROL OF FLOW RESISTANCE IN MICROFLUIDIC CHANNELS AND METHODS OF USE THEREOF**

[54] **SYSTEME MICROFLUIDIQUE BASE SUR LA REGULATION ACTIVE DE LA RESISTANCE A L'ECOULEMENT DANS DES CANAUX MICROFLUIDIQUES ET SES PROCEDES D'UTILISATION**

[72] HODKO, DALIBOR, US

[72] HODKO, NIVES, US

[72] PETIT, ANNE-LAURE, US

[72] NIEMANN, ULRICH, US

[71] NEXOGEN, INC., US

[85] 2023-05-16

[86] 2021-11-29 (PCT/US2021/061042)

[87] (WO2022/115722)

[30] US (63/119,421) 2020-11-30

[30] US (63/119,362) 2020-11-30

[21] **3,199,165**
[13] A1

[51] **Int.Cl. A61G 7/057 (2006.01)**

[25] EN

[54] **ENVELOPPED SUPPORT SURFACE OVERLAY**

[54] **REVETEMENT DE SURFACE DE SUPPORT ENVELOPPANT**

[72] DZIOBA, DAVID A., US

[71] DABIR SURFACES, INC., US

[85] 2023-05-16

[86] 2021-12-14 (PCT/US2021/063352)

[87] (WO2022/132798)

[30] US (63/125,519) 2020-12-15

[21] **3,199,166**
[13] A1

[51] **Int.Cl. A61K 31/197 (2006.01) A61P 25/04 (2006.01)**

[25] EN

[54] **STABLE, COATED, AND SOLID PHARMACEUTICAL DRUG COMPOSITION CONTAINING AN OPIOID ANALGESIC AND AN ANTIPILEPTIC TO RELIEVE PAIN**

[54] **COMPOSITION PHARMACEUTIQUE SOLIDE RECOUVERTE ET STABLE D'UN ANALGESIQUE ET D'UN ANTIPILEPTIQUE CONTRE LA DOULEUR**

[72] MUNOZ MARTINEZ, CECILIA JANNETTE, MX

[72] GONZALEZ CANUDAS, JORGE ALEJANDRO, MX

[72] OLLERVIDES RUBIO, PAOLA YAZMIN, MX

[72] ESPINOZA LEON, SIXTO SERAFIN, MX

[72] CUAHUTENCOS ESCOBAR, ERNESTO, MX

[71] LABORATORIOS SILANES S.A. DE C.V., MX

[85] 2023-05-16

[86] 2020-12-04 (PCT/MX2020/050050)

[87] (WO2022/119430)

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[21] **3,199,167**
[13] A1

[51] **Int.Cl. A61B 5/318 (2021.01) A61B 5/316 (2021.01) A61B 5/346 (2021.01) A61B 5/349 (2021.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR CONTINUOUS MONITORING OF PATIENTS FOR ARRHYTHMIAS**

[54] **PROCEDE ET SYSTEME DE SURVEILLANCE CONTINUE DE PATIENTS PAR RAPPORT A DES ARYTHMIES**

[72] MOON, JIM, US

[71] TRIVIRUM, INC., US

[85] 2023-05-16

[86] 2021-11-17 (PCT/US2021/059782)

[87] (WO2022/109064)

[30] US (63/114,996) 2020-11-17

[30] US (63/144,433) 2021-02-01

[21] **3,199,168**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/435 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION OF AN ANALGAESIC AND AN ANTIHISTAMINE FOR THE TREATMENT OF RESPIRATORY DISEASES**

[54] **COMPOSITION PHARMACEUTIQUE D'UN ANALGESIQUE ET D'UN ANTIHISTAMINIQUE POUR LE TRAITEMENT DE MALADIES RESPIRATOIRES**

[72] GONZALEZ CANUDAS, JORGE ALEJANDRO, MX

[72] MUNOZ MARTINEZ, CECILIA JANNETTE, MX

[72] OLLERVIDES RUBIO, PAOLA YAZMIN, MX

[72] ESPINOZA LEON, SIXTO SERAFIN, MX

[72] MARQUEZ MEJIA, JANNETTE, MX

[71] LABORATORIOS SILANES S.A. DE C.V., MX

[85] 2023-05-16

[86] 2020-12-04 (PCT/MX2020/050051)

[87] (WO2022/119431)

[21] **3,199,169**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6804 (2018.01)**

[25] EN

[54] **ANALYTE DETECTION METHOD EMPLOYING CONCATEMERS**

[54] **PROCEDE DE DETECTION D'ANALYTE UTILISANT DES CONCATEMERES**

[72] KUNDERU, GOWTHAM NICKLESH, SE

[72] BROBERG, JOHN, SE

[72] LUNDBERG, MARTIN, SE

[72] HENRIKSSON, SARA, SE

[71] OLINK PROTEOMICS AB, SE

[85] 2023-05-16

[86] 2021-11-24 (PCT/EP2021/082775)

[87] (WO2022/112300)

[30] GB (2018503.9) 2020-11-25

[21] **3,199,170**
[13] A1

[51] **Int.Cl. B01D 17/04 (2006.01) B01D 63/02 (2006.01) C10G 1/00 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR ENHANCED OIL RECOVERY**

[54] **PROCEDES ET APPAREIL DE RECUPERATION DE PETROLE AMELIOREE**

[72] BAI, SHIXUN, US

[72] KUBELKA, JAN, US

[72] PIRI, MOHAMMAD, US

[71] UNIVERSITY OF WYOMING, US

[85] 2023-05-16

[86] 2021-11-16 (PCT/US2021/059484)

[87] (WO2022/104248)

[30] US (63/114,311) 2020-11-16

[21] **3,199,171**
[13] A1

[51] **Int.Cl. A61K 31/337 (2006.01) A61K 38/12 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07K 7/00 (2006.01) C07K 7/64 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMBINATIONS COMPRISING A PEPTIDE CXCR4 INHIBITOR AND A TAXANE FOR TREATING CANCER**

[54] **COMBINAISONS PHARMACEUTIQUES COMPRENANT UN INHIBITEUR DE CXCR4 PEPTIDIQUE ET UN TAXANE POUR LE TRAITEMENT DU CANCER**

[72] ZIMMERMANN, JOHANN, DE

[71] SPEXIS AG, CH

[85] 2023-05-16

[86] 2021-11-19 (PCT/EP2021/025451)

[87] (WO2022/106061)

[30] EP (20020545.8) 2020-11-19

[30] EP (21020122.4) 2021-03-03

[21] **3,199,173**
[13] A1

[51] **Int.Cl. G08B 25/00 (2006.01)**

[25] EN

[54] **PASSIVE ALARM STATE ADJUSTMENT**

[54] **REGLAGE PASSIF D'ETAT D'ALARME**

[72] DIGGETT, LISA, US

[72] COLLINS, LAURA ANN, US

[72] KNIGHT, CLAIRE ELLEN, US

[72] WORKMAN, MICHAEL K., US

[71] CAREFUSION 303, INC., US

[85] 2023-05-16

[86] 2021-11-19 (PCT/US2021/060042)

[87] (WO2022/109239)

[30] US (63/116,758) 2020-11-20

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[21] **3,199,174**
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR ANALYTE MONITORING**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE SURVEILLANCE D'ANALYTE**
[72] RAO, VIVEK S., US
[72] SIMMONS, MATTHEW, US
[72] PACE, LOUIS G., US
[72] COLE, JEAN-PIERRE, US
[72] ROBINSON, PETER G., US
[72] VOIT, PETER, US
[72] MITCHELL, STEVEN T., US
[71] ABBOTT DIABETES CARE INC., US
[85] 2023-05-16
[86] 2021-09-16 (PCT/US2021/050672)
[87] (WO2022/146505)
[30] US (63/132,651) 2020-12-31

[21] **3,199,175**
[13] A1

[51] **Int.Cl. H01Q 5/10 (2015.01) H01Q 5/40 (2015.01) H01Q 5/50 (2015.01)**
[25] EN
[54] **DUAL-BAND RADIATING ELEMENT AND MODULAR ANTENNA ARRAY**
[54] **ELEMENT RAYONNANT A DOUBLE BANDE ET RESEAU D'ANTENNES MODULAIRES**
[72] BOUDREAU, NICHOLAS, CA
[72] LIANG, AIPING, CA
[72] RIEL, MATHIEU, CA
[71] MACDONALD, DETTWILER AND ASSOCIATES CORPORATION, CA
[85] 2023-05-16
[86] 2021-11-24 (PCT/CA2021/051678)
[87] (WO2022/109734)
[30] US (63/117,972) 2020-11-24

[21] **3,199,176**
[13] A1

[51] **Int.Cl. A61M 60/13 (2021.01) A61M 60/221 (2021.01) A61M 60/865 (2021.01)**
[25] EN
[54] **MECHANICAL CIRCULATORY SUPPORT SYSTEM WITH GUIDEWIRE AID**
[54] **SYSTEME MECANIQUE D'AIDE A LA CIRCULATION SANGUINE AU MOYEN D'UN FIL-GUIDE**
[72] MITZE, MARVIN, DE
[72] CHRISTOF, HANS, DE
[72] POPOV, VLADIMIR, DE
[72] SCHWARZ, MARTIN, DE
[72] WENNING, LEON, DE
[72] BETTE, JOHANNES, DE
[72] FABIUNKE, ATILA, DE
[72] GORRIES, JULIAN, DE
[72] SCHOFER, JAN, DE
[72] REX, VALENTIN, DE
[72] BERNER, JOHANNES, DE
[72] FERCH, JOHANNES, DE
[72] LULEY, HANS-BALDUNG, DE
[72] DOHRING, TOM, DE
[72] BURGHAUS, JENS, DE
[72] SCHELLENBERG, INGA, DE
[72] BAUMBACH, HARDY, DE
[72] BACH, ANNIKA, DE
[72] STOTZ, INGO, DE
[72] KASSEL, JULIAN, DE
[72] SCHUELKE, ARMIN, DE
[72] HENNECK, STEFAN, DE
[72] MINZENMAY, DAVID, DE
[72] SCHLEBUSCH, THOMAS ALEXANDER, DE
[72] SCHMID, TOBIAS, DE
[72] PIRK, TJALF, DE
[72] BUDDE, MARTINA, DE
[72] EHRENPFORDT, RICARDO, DE
[72] SCHMID, MARC, DE
[72] MANSOUR, AHMAD, DE
[72] BAEUERLE, NIKO, DE
[72] WASSERMANN, PETER, DE
[72] EIBERGER, FABIAN, DE
[72] MARTIN, KENNETH M., US
[71] KARDION GMBH, DE
[85] 2023-05-16
[86] 2021-11-18 (PCT/US2021/072497)
[87] (WO2022/109589)
[30] US (63/116,616) 2020-11-20
[30] US (63/116,686) 2020-11-20
[30] US (63/224,326) 2021-07-21
[30] US (63/229,436) 2021-08-04

[21] **3,199,179**
[13] A1

[51] **Int.Cl. A47G 19/22 (2006.01) B65D 5/74 (2006.01)**
[25] EN
[54] **DRINKING VESSEL WITH CLOSURE ASSEMBLY**
[54] **DISPOSITIF A BOIRE AVEC ENSEMBLE DE FERMETURE**
[72] MEYERS, DAVID O., US
[72] COLBY, JIM ALLEN, US
[72] OMDAHL, JOHN R. II, US
[72] BOND, TIMOTHY TYLER, US
[72] SORENSEN, STEVEN M., US
[71] RUNWAY BLUE, LLC, US
[85] 2023-05-16
[86] 2021-12-02 (PCT/US2021/061613)
[87] (WO2022/120050)
[30] US (63/121,075) 2020-12-03

[21] **3,199,180**
[13] A1

[51] **Int.Cl. B62B 7/04 (2006.01) B62B 7/06 (2006.01) B62B 7/08 (2006.01) B62B 9/20 (2006.01)**
[25] EN
[54] **LEG FOLDING MECHANISM AND A PUSH CHAIR**
[54] **MECANISME DE PLIAGE DE PIEDS ET POUSSETTE**
[72] DAHLSTROM, BJORN, GB
[72] SCHLAGMAN, RICHARD, GB
[71] JIJIBABA LIMITED, GB
[85] 2023-05-16
[86] 2021-11-16 (PCT/EP2021/081901)
[87] (WO2022/101517)
[30] GB (2018006.3) 2020-11-16

[21] **3,199,181**
[13] A1

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/24 (2006.01) A61M 5/31 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICE WITH CONTAINER HOLDER**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT A SUPPORT DE RECIPIENT**
[72] PALA, TRIVIKRAMA BHANOJI, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-05-16
[86] 2021-11-18 (PCT/US2021/059835)
[87] (WO2022/109095)
[30] US (63/116,024) 2020-11-19

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[21] **3,199,183**
[13] A1

[51] **Int.Cl. G01N 1/14 (2006.01) G01N 1/34 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FLUID SAMPLING**
[54] **SYSTEME ET PROCEDE D'ECHANTILLONNAGE DE FLUIDE**
[72] WESTLUND, PAUL ALEXANDER, CA
[71] C.E.C. ANALYTICS LTD., CA
[85] 2023-05-16
[86] 2021-11-18 (PCT/CA2021/051634)
[87] (WO2022/104466)
[30] US (63/115,244) 2020-11-18

[21] **3,199,184**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01)**
[25] EN
[54] **MDMA PRODRUGS TO ASSIST PSYCHOTHERAPY**
[54] **PROMEDICAMENTS DE MDMA POUR AIDER A LA PSYCHOTHERAPIE**
[72] LUSTENBERGER, FELIX, CH
[72] LIECHTI, MATTHIAS EMANUEL, CH
[72] TRACHSEL, DANIEL, CH
[71] MIND MEDICINE, INC., US
[85] 2023-05-16
[86] 2021-11-04 (PCT/IB2021/060227)
[87] (WO2022/106947)
[30] US (63/115,245) 2020-11-18

[21] **3,199,185**
[13] A1

[51] **Int.Cl. F24C 7/02 (2006.01) F24C 15/20 (2006.01)**
[25] EN
[54] **HEATING COOKING APPARATUS**
[54] **APPAREIL DE CUISSON PAR CHAUFFAGE**
[72] TAKEMOTO, NOBUO, JP
[72] SHINOHARA, YU, JP
[72] ASAMI, SHINJI, JP
[71] SHARP KABUSHIKI KAISHA, JP
[85] 2023-05-16
[86] 2021-11-24 (PCT/JP2021/042979)
[87] (WO2022/113998)
[30] JP (2020-196079) 2020-11-26

[21] **3,199,189**
[13] A1

[51] **Int.Cl. C12Q 1/6804 (2018.01)**
[25] EN
[54] **MULTIPLEXED PROFILING OF RNA AND DNA MODIFICATIONS**
[54] **PROFILAGE MULTIPLEXE DE MODIFICATIONS D'ARN ET D'ADN**
[72] STENGEL, GUDRUN, US
[72] HWANG-FU, YU-HSIEN, US
[72] SANTOS, JEROME, US
[72] PURSE, BYRON, US
[71] ALIDA BIOSCIENCES, INC., US
[85] 2023-05-16
[86] 2021-11-24 (PCT/US2021/060829)
[87] (WO2022/115608)
[30] US (63/118,409) 2020-11-25
[30] US (63/193,402) 2021-05-26

[21] **3,199,192**
[13] A1

[51] **Int.Cl. A61M 5/315 (2006.01) B29C 45/00 (2006.01) B29C 45/14 (2006.01) B29C 45/26 (2006.01) B29C 45/34 (2006.01)**
[25] EN
[54] **BARRIER COATED STOPPER AND METHOD OF FORMING SAME**
[54] **BOUCHON A REVETEMENT BARRIERE ET SON PROCEDE DE FORMATION**
[72] PRAIS, ALFRED W., US
[72] RODRIGUEZ SAN JUAN, NESTOR, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-05-16
[86] 2021-11-19 (PCT/US2021/060005)
[87] (WO2022/109214)
[30] US (63/116,533) 2020-11-20

[21] **3,199,193**
[13] A1

[51] **Int.Cl. E05B 85/04 (2014.01)**
[25] EN
[54] **MODULAR INDIVIDUALLY OPERABLE VEHICLE DOOR**
[54] **PORTIERE DE VEHICULE MODULAIRE ACTIONNABLE INDIVIDUELLEMENT**
[72] GABBIANELLI, GIANFRANCO, US
[72] SUBRAMANIAN, AZHAGU, US
[72] SRINIVAS, SATHVIK, US
[72] YOUNG, WARREN, US
[72] STIVERSON, JOEL, US
[71] MAGNA INTERNATIONAL INC., CA
[85] 2023-05-16
[86] 2021-12-08 (PCT/US2021/062371)
[87] (WO2022/125638)
[30] US (63/123,059) 2020-12-09

[21] **3,199,196**
[13] A1

[51] **Int.Cl. B06B 1/02 (2006.01) B06B 1/06 (2006.01) G10K 9/122 (2006.01) G10K 9/125 (2006.01)**
[25] EN
[54] **ULTRASONIC TRANSDUCER ARRAY DEVICE**
[54] **DISPOSITIF DE RESEAU DE TRANSDUCTEURS ULTRASONORES**
[72] KRAFT, MICHAEL, DE
[72] PUERS, ROBERT, BE
[72] SADEGHPOUR SHAMSABADI, SINA, BE
[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE
[85] 2023-05-16
[86] 2021-11-19 (PCT/EP2021/082335)
[87] (WO2022/106637)
[30] EP (20208666.6) 2020-11-19
[30] EP (20208670.8) 2020-11-19
[30] EP (20208676.5) 2020-11-19

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[21] **3,199,197**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/20 (2006.01) A61M 5/31 (2006.01) A61M 5/32 (2006.01) A61M 5/42 (2006.01)**

[25] EN

[54] **DRUG DELIVERY DEVICE WITH ADHESIVE ASSEMBLY**

[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT COMPRENANT UN ENSEMBLE ADHESIF**

[72] PALA, TRIVIKRAMA BHANOJI, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-05-16

[86] 2021-11-18 (PCT/US2021/059808)

[87] (WO2022/109082)

[30] US (63/116,030) 2020-11-19

[21] **3,199,198**
[13] A1

[51] **Int.Cl. A23G 9/22 (2006.01) A23G 9/28 (2006.01)**

[25] EN

[54] **FROZEN DESSERT DISPENSING MACHINE AND CARTRIDGE**

[54] **CARTOUCHE ET MACHINE DE DISTRIBUTION DE DESSERT GLACE**

[72] SPIRK, EVAN, US

[72] STEPHAN, GARY, US

[72] KLINK, RICHARD, US

[72] VITANTONIO, MARC, US

[72] ERTEL, JASON, US

[72] PEHAR, DAVID, US

[72] VYSTRCIL, ROBERT, US

[72] BRISCOE, BRAD, US

[72] CIPOLLA, MARK, US

[72] FUCHS, DONALD, US

[72] PARKER, BEN, US

[72] SEBASTIAN, WILLIAM, US

[72] VELET, ALEXANDER, US

[71] NOTTINGHAM SPIRK DESIGN ASSOCIATES, US

[85] 2023-05-16

[86] 2021-10-19 (PCT/US2021/055560)

[87] (WO2022/108696)

[30] US (16/952,036) 2020-11-18

[21] **3,199,200**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01)**

[25] EN

[54] **TWO STEP AMINE ABSORPTION PROCESS FOR REMOVAL CO₂/H₂S FROM BIOGAS**

[54] **PROCEDE D'ABSORPTION D'AMINE EN DEUX ETAPES POUR ELIMINER LE CO₂/H₂S D'UN BIOGAZ**

[72] FIND, RASMUS, DK

[71] AIRCO PROCESS TECHNOLOGY A/S, DK

[85] 2023-05-16

[86] 2021-11-16 (PCT/EP2021/081882)

[87] (WO2022/101509)

[30] EP (20207834.1) 2020-11-16

[21] **3,199,201**
[13] A1

[51] **Int.Cl. B60C 11/00 (2006.01) B60C 11/24 (2006.01)**

[25] EN

[54] **A TIRE TREAD FOR LONG LASTING PERFORMANCE**

[54] **BANDE DE ROULEMENT DE PNEU POUR PERFORMANCES DE LONGUE DUREE**

[72] UCHIDA, TOMOTAKE, JP

[72] YOKOKAWA, KAZUTAKA, JP

[72] YAMAMOTO, RYOSUKE, JP

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2023-05-16

[86] 2020-12-22 (PCT/JP2020/047831)

[87] (WO2022/137316)

[21] **3,199,203**
[13] A1

[51] **Int.Cl. B60C 11/00 (2006.01) B60C 11/13 (2006.01)**

[25] EN

[54] **A TIRE TREAD**

[54] **BANDE DE ROULEMENT**

[72] ANDO, KIYOTERU, JP

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2023-05-16

[86] 2020-12-22 (PCT/JP2020/047832)

[87] (WO2022/137317)

[21] **3,199,206**
[13] A1

[51] **Int.Cl. C07C 233/65 (2006.01) C08F 10/06 (2006.01)**

[25] EN

[54] **TRISAMIDE COMPOUNDS AND COMPOSITIONS COMPRISING THE SAME**

[54] **COMPOSES TRISAMIDES ET COMPOSITIONS LES COMPRENANT**

[72] KREMER, DANIEL, DE

[72] SCHMIDT, HANS-WERNER, DE

[72] SMITH, PAUL, CH

[72] ANDERSON, JOHN DAVID, US

[72] DATTA, SUCHITRA, US

[72] KELLER, KEITH, US

[72] MEHL, NATHAN, US

[72] SCRIVENS, WALTER, US

[71] MILLIKEN & COMPANY, US

[85] 2023-05-16

[86] 2021-12-02 (PCT/US2021/061635)

[87] (WO2022/132455)

[30] US (63/125,374) 2020-12-14

[21] **3,199,208**
[13] A1

[51] **Int.Cl. C08L 67/02 (2006.01)**

[25] EN

[54] **HIGH ACID VALUE POLYESTER**

[54] **POLYESTER A INDICE D'ACIDITE ELEVE**

[72] LAMERS, PAUL HUBERT, US

[72] VERARDI, CHRISTOPHER A., US

[72] WANG, WEI, US

[71] PPG INDUSTRIES OHIO, INC., US

[85] 2023-05-16

[86] 2021-12-10 (PCT/US2021/062752)

[87] (WO2022/125860)

[30] US (63/123,527) 2020-12-10

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[21] **3,199,212**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01)**
[25] EN
[54] **CLDN18.2 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-CLDN18.2 ET SON UTILISATION**
[72] DONG, JUNJI, CN
[72] ZHANG, KUO, CN
[72] YU, TINGTING, CN
[72] WANG, XUFANG, CN
[72] XU, LE, CN
[72] ZHAO, GUANGHUI, CN
[72] YE, QUNRUI, CN
[72] FENG, LIYA, CN
[72] REN, ZHIHENG, CN
[72] JIANG, YAN, CN
[72] CHEN, XIAOFENG, CN
[72] LI, WENJIA, CN
[71] SUNSHINE LAKE PHARMA CO., LTD., CN
[85] 2023-05-16
[86] 2021-11-26 (PCT/CN2021/133514)
[87] (WO2022/111633)
[30] CN (202011364033.6) 2020-11-27

[21] **3,199,213**
[13] A1

[51] **Int.Cl. A61B 5/1486 (2006.01)**
[25] EN
[54] **GLUCOSE SENSORS AND METHODS OF MANUFACTURING**
[54] **CAPTEURS DE GLUCOSE ET LEURS PROCEDES D'E FABRICATION**
[72] KRISHNAMANI, VENKATRAMANAN, US
[72] PIRBADIAN, SAHAND, US
[72] PAULEY, KEVIN HUGHES, US
[72] BALASHOV, SERGEI PETROVICH, US
[72] DEVADOSS, ANANDO, US
[71] CERCACOR LABORATORIES, INC., US
[85] 2023-05-16
[86] 2021-11-17 (PCT/US2021/059691)
[87] (WO2022/109008)
[30] US (63/115,474) 2020-11-18

[21] **3,199,214**
[13] A1

[51] **Int.Cl. A61M 60/13 (2021.01) A61M 60/221 (2021.01) A61M 60/416 (2021.01) A61M 60/419 (2021.01) A61M 60/806 (2021.01) A61M 60/825 (2021.01) A61M 60/827 (2021.01) A61M 60/857 (2021.01) A61M 60/861 (2021.01) A61M 60/865 (2021.01)**
[25] EN
[54] **MECHANICAL CIRCULATORY SUPPORT SYSTEM WITH INSERTION TOOL**
[54] **SYSTEME DE SUPPORT CIRCULATOIRE MECANIQUE DOTE D'OUTIL D'INSERTION**
[72] MITZE, MARVIN, DE
[72] CHRISTOF, HANS, DE
[72] POPOV, VLADIMIR, DE
[72] SCHWARZ, MARTIN, DE
[72] WENNING, LEON, DE
[72] BETTE, JOHANNES, DE
[72] FABIUNKE, ATTILA, DE
[72] GORRIES, JULIAN, DE
[72] SCHOFER, JAN, DE
[72] REX, VALENTIN, DE
[72] BERNER, JOHANNES, DE
[72] FERCH, JOHANNES, DE
[72] LULEY, HANS-BALDUNG, DE
[72] DOHRING, TOM, DE
[72] BURGHAUS, JENS, DE
[72] SCHELLENBERG, INGA, DE
[72] BAUMBACH, HARDY, DE
[72] BACH, ANNIKA, DE
[72] STOTZ, INGO, DE
[72] KASSEL, JULIAN, DE
[72] SCHUELKE, ARMIN, DE
[72] HENNECK, STEFAN, DE
[72] MINZENMAY, DAVID, DE
[72] SCHLEBUSCH, THOMAS ALEXANDER, DE
[72] SCHMID, TOBIAS, DE
[72] PIRK, TJALF, DE
[72] BUDDE, MARTINA, DE
[72] EHRENPFORDT, RICARDO, DE
[72] SCHMID, MARC, DE
[72] MANSOUR, AHMAD, DE
[72] BAEUERLE, NIKO, DE
[72] WASSERMANN, PETER, DE
[72] EIBERGER, FABIAN, DE
[72] MARTIN, KENNETH M., US
[72] FRIEDRICH, THOMAS, US
[72] HEINTZE, MARIO, US
[71] KARDION GMBH, DE
[85] 2023-05-16
[86] 2021-11-18 (PCT/US2021/072499)
[87] (WO2022/109591)
[30] US (63/116,616) 2020-11-20
[30] US (63/116,686) 2020-11-20

[21] **3,199,215**
[13] A1

[51] **Int.Cl. B60J 7/19 (2006.01) B60J 7/12 (2006.01) B60J 7/14 (2006.01)**
[25] EN
[54] **PINCH LATCH ASSEMBLY**
[54] **ENSEMBLE DE VERROUILLAGE A PINCEMENT**
[72] DYLEWSKI, EUGENE A. II, US
[72] MATTISON, CHRISTOPHER DAVID, US
[71] LEER GROUP, US
[85] 2023-05-16
[86] 2021-12-01 (PCT/US2021/061413)
[87] (WO2022/119925)
[30] US (63/120,976) 2020-12-03
[30] US (17/537,613) 2021-11-30

[21] **3,199,218**
[13] A1

[51] **Int.Cl. C01D 15/02 (2006.01) C01D 1/30 (2006.01) C01D 1/32 (2006.01) C01D 1/42 (2006.01)**
[25] EN
[54] **LITHIUM PRODUCTION WITH VOLATILE ACID**
[54] **PRODUCTION DE LITHIUM AVEC DE L'ACIDE VOLATIL**
[72] SNYDACKER, DAVID HENRY, US
[72] GERSHANOV, ALEXANDER YURIEVICH, US
[72] LUKITO, ALYSIA, US
[72] LAU, GARRETT CHINYU, US
[72] BOOTWALA, MUSTAFA JUZER, US
[72] MOCK, SOPHIA PATRICIA, US
[71] LILAC SOLUTIONS, INC., US
[85] 2023-05-16
[86] 2021-11-18 (PCT/US2021/059921)
[87] (WO2022/109156)
[30] US (63/116,691) 2020-11-20

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[21] **3,199,219**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2023.01)**
[25] EN
[54] **SYSTEM FOR IDENTIFICATION OF TIRES AND ONGOING COMMUNICATION CONCERNING SAFETY ISSUES THEREWITH**
[54] **SYSTEME D'IDENTIFICATION DE PNEUS ET DE COMMUNICATION CONTINUE CONCERNANT DES PROBLEMES DE SECURITE ASSOCIES**
[72] OHANNESIAN, S, US
[72] COTTLES, TROY, US
[71] IESPY CORPORATION, US
[85] 2023-05-16
[86] 2021-11-16 (PCT/US2021/059578)
[87] (WO2022/108949)
[30] US (63/114,717) 2020-11-17

[21] **3,199,220**
[13] A1

[51] **Int.Cl. F41A 21/36 (2006.01) F41A 1/10 (2006.01) F41A 5/10 (2006.01)**
[25] EN
[54] **RECOIL MANAGEMENT SYSTEM FOR A GUN**
[54] **SYSTEME DE GESTION DU RECU POUR UNE ARME**
[72] PUHA, TEODOR, US
[71] EIGHT HOLDINGS LLC, US
[85] 2023-05-16
[86] 2021-11-17 (PCT/US2021/059776)
[87] (WO2022/109060)
[30] US (63/114,840) 2020-11-17

[21] **3,199,222**
[13] A1

[51] **Int.Cl. A61F 5/30 (2006.01) A47C 16/02 (2006.01)**
[25] EN
[54] **EXTREMITY OFFLOADING SYSTEM**
[54] **SYSTEME DE DECHARGEMENT D'EXTREMITE**
[72] MARCUS, MICHAEL J., US
[71] MARCUS, MICHAEL J., US
[85] 2023-05-16
[86] 2021-11-17 (PCT/US2021/072459)
[87] (WO2022/109560)
[30] US (63/116,652) 2020-11-20

[21] **3,199,223**
[13] A1

[51] **Int.Cl. G06F 8/70 (2018.01) G06F 9/451 (2018.01)**
[25] EN
[54] **MODULAR COMMAND INTERFACE FOR APPLICATION INTEGRATION**
[54] **INTERFACE DE COMMANDE MODULAIRE POUR INTEGRATION D'APPLICATIONS**
[72] FOX, JUSTINE CELESTE, CA
[72] GRIMSON, MARC, CA
[72] WADDELL, CHRISTOPHER, CA
[72] URQUHART, CHELSEA, CA
[72] RUHELA, LEENA, CA
[71] MASTERCARD TECHNOLOGIES CANADA ULC, CA
[85] 2023-05-16
[86] 2021-11-16 (PCT/CA2021/051620)
[87] (WO2022/104456)
[30] US (63/114,877) 2020-11-17

[21] **3,199,224**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61K 38/17 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **METHODS OF IDENTIFYING GAMMA DELTA T CELL-MODULATING AGENTS**
[54] **METHODES D'IDENTIFICATION D'AGENTS MODULATEURS DE LYMPHOCYTES T GAMMA DELTA**
[72] FROMM, GEORGE, US
[72] DE SILVA, SURESH, US
[72] SCHREIBER, TAYLOR, US
[71] SHATTUCK LABS, INC., US
[85] 2023-05-16
[86] 2021-11-18 (PCT/US2021/059852)
[87] (WO2022/109110)
[30] US (63/116,058) 2020-11-19
[30] US (63/173,063) 2021-04-09

[21] **3,199,259**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) A61K 51/08 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **HER3 RADIOIMMUNOTHERAPY FOR THE TREATMENT OF SOLID CANCERS**
[54] **RADIOIMMUNOTHERAPIE DE HER3 POUR LE TRAITEMENT DE CANCERS SOLIDES**
[72] LUDWIG, DALE L, US
[72] GEOGHEGAN, EILEEN, US
[72] SETH, SANDESH, US
[72] DIAMOND, PAUL, US
[71] ACTINIUM PHARMACEUTICALS, INC., US
[85] 2023-05-17
[86] 2021-11-22 (PCT/US2021/060370)
[87] (WO2022/109404)
[30] US (63/116,225) 2020-11-20
[30] US (63/118,181) 2020-11-25
[30] US (63/226,699) 2021-07-28
[30] US (63/250,725) 2021-09-30
[30] US (PCT/US2021/056259) 2021-10-22

[21] **3,199,279**
[13] A1

[51] **Int.Cl. C12N 5/077 (2010.01) C12N 5/0775 (2010.01) C12N 5/10 (2006.01)**
[25] EN
[54] **GENERATION OF SECRETOME-CONTAINING COMPOSITIONS, AND METHODS OF USING AND ANALYZING THE SAME**
[54] **GENERATION DE COMPOSITIONS CONTENANT DES SECRETOMES ET LEURS METHODES D'UTILISATION ET D'ANALYSE**
[72] RENAULT, NISA K. E., US
[72] HAMRICK, MICHELE L., US
[72] KOONCE, CHAD, US
[72] MENASCHE, PHILIPPE, FR
[72] BELLAMY, VALERIE, FR
[72] HUMBERT, CAMILLE, FR
[72] CHURLAUD, GUILLAUME, FR
[72] LARGHERO, JEROME, FR
[71] FUJI-FILM CORPORATION, JP
[71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR
[85] 2023-05-17
[86] 2021-11-17 (PCT/IB2021/000793)
[87] (WO2022/106889)
[30] US (63/115,230) 2020-11-18

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[21] **3,199,284**
[13] A1

[51] **Int.Cl. C12Q 1/02 (2006.01)**
[25] EN
[54] **METHODS AND ASSAYS FOR ANALYZING SECRETOME-CONTAINING COMPOSITIONS**
[54] **PROCEDES ET DOSAGES POUR ANALYSER DES COMPOSITIONS CONTENANT DES SECRETOMES**
[72] RENAULT, NISA K.E., US
[72] HAMRICK, MICHELE L., US
[72] CARLSON, COBY, US
[72] LIVINGSTON, MEGAN, US
[71] FUJIFILM CORPORATION, JP
[85] 2023-05-17
[86] 2021-11-17 (PCT/IB2021/000794)
[87] (WO2022/106890)
[30] US (63/115,242) 2020-11-18

[21] **3,199,285**
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) A61B 8/08 (2006.01) A61B 8/12 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **TRANSPERINEAL PUNCTURE DEVICE GUIDE**
[54] **GUIDE POUR DISPOSITIF DE PONCTION TRANSPERINEALE**
[72] WHITMORE, WILLET, US
[72] MEDER, TIM, US
[72] SMITH, PAUL, US
[72] MOODY, SAM, US
[72] PANKOW, HANNAH, US
[72] MYHRE, MACKENZIE, US
[72] MYRAND, CAROLINE, CA
[71] CIVCO MEDICAL INSTRUMENTS CO., INC., US
[85] 2023-05-17
[86] 2021-11-22 (PCT/US2021/060324)
[87] (WO2022/109387)
[30] US (63/116,980) 2020-11-23
[30] US (63/233,173) 2021-08-13

[21] **3,199,286**
[13] A1

[51] **Int.Cl. C01D 7/00 (2006.01)**
[25] EN
[54] **PRODUCTION OF ALKALI METAL CARBONATES AND/OR BICARBONATES FROM ALKALI METAL SULPHATES**
[54] **PRODUCTION DE CARBONATES ET/OU DE BICARBONATES DE METAUX ALCALINS A PARTIR DE SULFATES DE METAUX ALCALINS**
[72] VAN VUUREN, DAVID STEYN, ZA
[72] MAREE, JOHANNES PHILIPPUS, ZA
[71] UNIVERSITY OF PRETORIA, ZA
[71] UNIVERSITY OF LIMPOPO, ZA
[85] 2023-05-17
[86] 2021-11-18 (PCT/IB2021/060690)
[87] (WO2022/107033)
[30] ZA (2020/07178) 2020-11-18

[21] **3,199,294**
[13] A1

[51] **Int.Cl. F16L 43/00 (2006.01) F16L 55/24 (2006.01) F23D 14/04 (2006.01) F23K 5/00 (2006.01) F24C 3/00 (2006.01) F24C 3/08 (2006.01)**
[25] EN
[54] **DECORATIVE-FLAME BURNER**
[54] **BRULEUR A FLAMME DECORATIVE**
[72] FLAHERTY, TIMOTHY, US
[72] O'CONNOR, KEVIN, US
[72] SMALL, BRYAN, US
[72] BULLA, JEREMIAH, US
[71] WARMING TRENDS, LLC, US
[85] 2023-05-17
[86] 2021-11-23 (PCT/US2021/060434)
[87] (WO2022/115393)
[30] US (63/117,481) 2020-11-24

[21] **3,199,296**
[13] A1

[51] **Int.Cl. A45C 7/00 (2006.01) A45C 9/00 (2006.01) A47J 36/34 (2006.01) B65D 5/36 (2006.01)**
[25] EN
[54] **CARRYING BAG AND TRIVET FOR COOKWARE**
[54] **SAC DE TRANSPORT ET TREPIED POUR USTENSILES DE CUISINE**
[72] ZHENG, XI, US
[72] CHENG, STEPHANIE HAI YAN, US
[72] CHENG, STANLEY KIN SUI, US
[71] MEYER INTELLECTUAL PROPERTIES LIMITED, CN
[71] CHENG, STANLEY KIN SUI, US
[85] 2023-05-17
[86] 2021-11-24 (PCT/US2021/060717)
[87] (WO2022/115523)
[30] US (63/118,321) 2020-11-25
[30] US (17/532,234) 2021-11-22

[21] **3,199,304**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01)**
[25] EN
[54] **OPHTHALMIC SURGICAL MICROSCOPE WITH STROBOSCOPIC ILLUMINATION**
[54] **MICROSCOPE DE CHIRURGIE OPHTALMIQUE A ECLAIRAGE STROBOSCOPIQUE**
[72] BOR, ZSOLT, US
[72] KHAZAEINEZHAD, REZA, US
[72] OVCHINNIKOV, MIKHAIL, US
[72] MALEK TABRIZI, ALIREZA, US
[72] WATANABE, KEITH, US
[71] ALCON INC., CH
[85] 2023-05-17
[86] 2021-10-21 (PCT/IB2021/059743)
[87] (WO2022/130050)
[30] US (63/126,413) 2020-12-16

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[21] **3,199,309**
[13] A1

[51] **Int.Cl. C22C 21/06 (2006.01) C22F 1/047 (2006.01)**
[25] EN
[54] **IMPROVED 5XXX ALUMINUM ALLOYS**
[54] **ALLIAGES D'ALUMINIUM 5XXX AMELIORES**
[72] YANAR, CAGATAY, US
[72] VENEMA, GREGORY B., US
[72] WEN, WEI, US
[71] ARCONIC TECHNOLOGIES LLC, US
[85] 2023-05-17
[86] 2021-11-23 (PCT/US2021/060589)
[87] (WO2022/115463)
[30] US (63/117,664) 2020-11-24

[21] **3,199,317**
[13] A1

[51] **Int.Cl. A63C 19/12 (2006.01)**
[25] EN
[54] **SHEET OF INSULATING PLATES AND ITS USE**
[54] **FEUILLE DE PLAQUES ISOLANTES ET SON UTILISATION**
[72] NIEMINEN, HENRI, FI
[71] FF-FUTURE OY, FI
[85] 2023-05-17
[86] 2021-12-07 (PCT/FI2021/050849)
[87] (WO2022/123116)
[30] FI (20206263) 2020-12-08

[21] **3,199,320**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 49/14 (2006.01) A61K 51/10 (2006.01)**
[25] EN
[54] **ANTI-GPA33 MULTI-SPECIFIC ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-GPA33 MULTISPECIFIQUES ET LEURS UTILISATIONS**
[72] SANTICH, BRIAN H., US
[72] WANG, MAO, US
[72] CHEUNG, NAI-KONG V., US
[72] LARSON, STEVEN, US
[72] CHEAL, SARAH, US
[72] VEACH, DARREN, US
[72] AHMED, MAHIUDDIN, US
[72] XU, HONG, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2023-05-17
[86] 2021-11-17 (PCT/US2021/059634)
[87] (WO2022/108976)
[30] US (63/115,326) 2020-11-18

[21] **3,199,321**
[13] A1

[51] **Int.Cl. A61K 41/00 (2020.01) B82Y 5/00 (2011.01) A61N 5/10 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **POROUS, HIGH-Z AND CARBON-FREE PARTICLES AS RADIOENHANCERS**
[54] **PARTICULES POREUSES, A HAUTE TENEUR EN Z ET EXEMPTES DE CARBONE EN TANT QUE RADIOACTIVATEURS**
[72] LEVY, LAURENT, FR
[72] BERJAUD, CELINE, FR
[72] MADEIRA, ALEXANDRA, FR
[72] MARILL, JULIE, FR
[72] MEYRE, MARIE-EDITH, FR
[71] NANOBIOITIX, FR
[85] 2023-05-17
[86] 2021-11-30 (PCT/EP2021/083469)
[87] (WO2022/117529)
[30] EP (20306470.4) 2020-12-01

[21] **3,199,323**
[13] A1

[51] **Int.Cl. B25J 9/10 (2006.01) B25J 9/12 (2006.01) B25J 9/16 (2006.01)**
[25] EN
[54] **FLEXIBLE SHELL STRUCTURE FOR SHOW ELEMENTS**
[54] **STRUCTURE D'ENVELOPPE SOUPLE POUR ELEMENTS DE PRESENTATION**
[72] ECK, TIMOTHY J., US
[72] VYAS, ANISHA, US
[72] MINOR, HAZ, US
[72] SAID, PHIL, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-05-17
[86] 2021-12-07 (PCT/US2021/062181)
[87] (WO2022/125534)
[30] US (63/122,454) 2020-12-07
[30] US (17/543,584) 2021-12-06

[21] **3,199,324**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 31/506 (2006.01) A61K 47/22 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **INHALED IMATINIB FOR PULMONARY HYPERTENSION FIELD**
[54] **IMATINIB INHALE POUR LE DOMAINE DE L'HYPERTENSION PULMONAIRE**
[72] SILVERSTEIN, ADAM MARC, US
[72] POISSON, PATRICK, US
[72] KESHAVA, AJAY, US
[72] FREEMAN, JOHN J. JR., US
[72] MILLS, JAMES, US
[71] UNITED THERAPEUTICS CORPORATION, US
[71] MANNKIND CORPORATION, US
[85] 2023-05-17
[86] 2021-11-16 (PCT/US2021/059553)
[87] (WO2022/108939)
[30] US (63/114,781) 2020-11-17

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[21] **3,199,329**
[13] A1

[51] **Int.Cl. G01V 1/04 (2006.01) G01V 1/155 (2006.01)**
[25] EN
[54] **SEISMIC SHAKER**
[54] **SECOUEUR SISMIQUE**
[72] DAMS, JOHANNES ADRIANUS ANTONIUS THEODORUS, NL
[72] BOS, JORDAN, NL
[72] ENGELEN, DIRK HENDRIKUS MARINUS, NL
[72] VAN DIJK, PAULUS JOHANNES PETRUS, NL
[72] TIMMERS, DAAN, NL
[71] SEISMIC MECHATRONICS B.V., NL
[85] 2023-05-17
[86] 2021-11-17 (PCT/EP2021/081920)
[87] (WO2022/106441)
[30] NL (2026908) 2020-11-17

[21] **3,199,333**
[13] A1

[51] **Int.Cl. A61K 31/4196 (2006.01) A61K 31/429 (2006.01) A61P 35/00 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **C-MYC MRNA TRANSLATION MODULATORS AND USES THEREOF IN THE TREATMENT OF CANCER**
[54] **MODULATEURS DE TRADUCTION D'ARNM C-MYC ET LEURS UTILISATIONS DANS LE TRAITEMENT DU CANCER**
[72] SHEPPARD, DAVID WILLIAM, IL
[72] TIERNEY, JASON PAUL, IL
[72] MANDABI, AVIAD, IL
[72] ALROY, IRIS, IL
[72] WASSERMANN, RINA, IL
[72] WANG, YAODE, CN
[72] LI, HAITANG, CN
[72] SHEINBERGER, YONI, IL
[71] ANIMA BIOTECH INC., US
[85] 2023-05-17
[86] 2022-01-05 (PCT/US2022/011203)
[87] (WO2022/150316)
[30] IL (279972) 2021-01-05

[21] **3,199,341**
[13] A1

[51] **Int.Cl. A61K 31/13 (2006.01) A61K 31/14 (2006.01) A61P 31/14 (2006.01) C07K 14/165 (2006.01)**
[25] EN
[54] **AMMONIUM CHLORIDE FORMULATION TO SUPPORT HUMAN NATURAL DEFENSE AGAINST VIRUSES**
[54] **FORMULATION DE CHLORURE D'AMMONIUM D'AIDE A LA DEFENSE NATURELLE HUMAINE CONTRE DES VIRUS**
[72] DRAKOULIS, NIKOLAOS, GR
[72] TSIRIKOS-KARAPANOS, NIKOLAOS, US
[71] TSIRIKOS-KARAPANOS, NIKOLAOS, US
[85] 2023-05-17
[86] 2021-11-22 (PCT/US2021/060343)
[87] (WO2022/109393)

[21] **3,199,342**
[13] A1

[51] **Int.Cl. A63J 1/02 (2006.01)**
[25] EN
[54] **SURFACE-MOUNTED VEHICLE HAVING A RAIL COUPLING SYSTEM**
[54] **VEHICULE MONTE EN APPLIQUE, DOTE DE SYSTEME D'ACCOUPLLEMENT DE RAILS**
[72] FREEDMAN, DANIEL, US
[72] FIKE, DUSTIN W., US
[72] CHAO RODRIGUEZ, FELIX M., US
[72] MILLER, WILLIAM, US
[72] SOUTH, DWAIN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-05-17
[86] 2021-12-06 (PCT/US2021/062046)
[87] (WO2022/125459)
[30] US (63/124,446) 2020-12-11
[30] US (17/540,460) 2021-12-02

[21] **3,199,346**
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 45/06 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOUNDS FOR TREATMENT OF AUTISM SPECTRUM DISORDER**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT DU TROUBLE DU SPECTRE DE L'AUTISME**
[72] JANJIC, NEBOJSA, US
[72] OCHSNER, URS, US
[71] CRESTONE, INC., US
[85] 2023-05-17
[86] 2021-12-08 (PCT/US2021/062454)
[87] (WO2022/125691)
[30] US (63/123,453) 2020-12-09

[21] **3,199,348**
[13] A1

[51] **Int.Cl. A61K 31/122 (2006.01) A61K 31/155 (2006.01) A61K 31/198 (2006.01) A61K 31/375 (2006.01) A61K 31/395 (2006.01) A61K 31/4152 (2006.01) A61K 31/51 (2006.01) A61K 38/07 (2006.01) A61K 38/13 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR NEUROPROTECTION**
[54] **METHODES ET COMPOSITIONS POUR LA NEUROPROTECTION**
[72] BECKER, LANCE, US
[72] CHOUDHARY, RISHABH CHARAN, US
[71] THE FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH, US
[85] 2023-05-17
[86] 2021-11-17 (PCT/US2021/059612)
[87] (WO2022/108963)
[30] US (63/114,786) 2020-11-17

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[21] **3,199,352**
[13] A1

[51] **Int.Cl. C12P 19/02 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF A FILAMENTOUS FUNGUS WHOLE BROTH ENZYME COMPOSITION WITH LOW BIOMASS FORMATION AND HIGH PROTEIN YIELD**

[54] **PROCEDE DE PRODUCTION D'UNE COMPOSITION ENZYMATIQUE DE BOUILLON ENTIER DE CHAMPIGNON FILAMENTEUX A FAIBLE FORMATION DE BIOMASSE ET A RENDEMENT PROTEIQUE ELEVE**

[72] GAMAUF, CHRISTIAN, DE
[72] CLAREN, JORG, DE
[71] CLARIANT PRODUKTE (DEUTSCHLAND) GMBH, DE
[85] 2023-05-17
[86] 2021-12-13 (PCT/EP2021/085529)
[87] (WO2022/128937)
[30] EP (20214608.0) 2020-12-16

[21] **3,199,356**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12N 5/071 (2010.01)**
[25] EN
[54] **MICROFLUIDIC DEVICE AND USES THEREOF**

[54] **DISPOSITIF MICROFLUIDIQUE ET SES UTILISATIONS**

[72] GURKAN, UMUT, US
[72] MAJI, DEBNATH, US
[72] MAN, YUCHENG, US
[72] SUSTER, MICHAEL, US
[72] MOHSENI, PEDRAM, US
[71] CASE WESTERN RESERVE UNIVERSITY, US
[85] 2023-05-17
[86] 2021-12-03 (PCT/US2021/061757)
[87] (WO2022/120139)
[30] US (63/121,045) 2020-12-03

[21] **3,199,357**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ELECTRONICALLY ASSESSING OPERATOR PERFORMANCE WHEN OPERATING A MACHINE BASED ON MACHINE-RELATED DATA ASSOCIATED WITH THE MACHINE**

[54] **SYSTEMES ET PROCEDES D'EVALUATION ELECTRONIQUE DE PERFORMANCES D'OPERATEUR LORS DE L'EXPLOITATION D'UNE MACHINE D'APRES DES DONNEES LIEES A LA MACHINE ASSOCIEES A LA MACHINE**

[72] SUBRAMANIAN, GAUTHAM, US
[72] BOMER, BRADLEY K., US
[72] MC BRIDE, SHANE C., US
[72] DECLERK, ALLEN J., US
[71] CATERPILLAR INC., US
[85] 2023-05-17
[86] 2021-11-24 (PCT/US2021/060704)
[87] (WO2022/115517)
[30] US (17/105,903) 2020-11-27

[21] **3,199,359**
[13] A1

[51] **Int.Cl. B60B 35/04 (2006.01) F16D 65/00 (2006.01)**
[25] EN
[54] **AXLE FOR HEAVY-DUTY VEHICLES**

[54] **ESSIEU POUR VEHICULES UTILITAIRES LOURDS**

[72] ERNENWEIN, KEITH M., US
[72] WHITE, JAY D., US
[72] KARICH, MATTHEW P., US
[71] HENDRICKSON USA, L.L.C., US
[85] 2023-05-17
[86] 2021-11-02 (PCT/US2021/057687)
[87] (WO2022/119678)
[30] US (63/121,320) 2020-12-04

[21] **3,199,361**
[13] A1

[51] **Int.Cl. A61B 17/43 (2006.01) A61B 17/425 (2006.01) A61D 19/02 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE FOR PREVENTING REFLUX IN THE CERVIX**

[54] **DISPOSITIF MEDICAL POUR EMPECHER LE REFLUX DANS LE COL DE L'UTERUS**

[72] FALKNER, PETER T., US
[72] PLESSALA, KIRBY J., US
[72] KRUMME, JOHN, US
[71] INNOMED ONE, LLC, US
[85] 2023-05-17
[86] 2021-11-17 (PCT/US2021/059609)
[87] (WO2022/108961)
[30] US (63/114,600) 2020-11-17

[21] **3,199,362**
[13] A1

[51] **Int.Cl. G10H 1/00 (2006.01) G10H 1/02 (2006.01) G10H 1/055 (2006.01) G10H 1/18 (2006.01) G10H 1/34 (2006.01)**
[25] EN
[54] **WIRELESS SWITCHING SYSTEM FOR MUSICAL INSTRUMENTS AND RELATED METHODS**

[54] **SYSTEME DE COMMUTATION SANS FIL POUR INSTRUMENTS DE MUSIQUE ET PROCEDES ASSOCIES**

[72] BRANCALION, GUIDO, IT
[72] BELLER, KEVIN, US
[71] CARTER DUNCAN CORP, US
[85] 2023-05-17
[86] 2021-11-17 (PCT/US2021/059758)
[87] (WO2022/109048)
[30] US (63/115,024) 2020-11-17

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[21] **3,199,363**
[13] A1

[51] **Int.Cl. E05D 3/18 (2006.01) E05F 1/10 (2006.01) E05F 1/14 (2006.01) E05F 3/10 (2006.01)**

[25] EN

[54] **DEVICE FOR CLOSING AND/OR OPENING OF A LEAF**

[54] **DISPOSITIF DE FERMETURE ET/OU D'OUVERTURE D'UN BATTANT**

[72] ANSELMI, GIULIO, IT
[72] TASSI, ALBERTO, IT
[71] ANSELMI & C. S.R.L., IT
[85] 2023-05-17
[86] 2021-11-19 (PCT/IB2021/060735)
[87] (WO2022/107056)
[30] IT (10202000027927) 2020-11-20

[21] **3,199,364**
[13] A1

[51] **Int.Cl. B01D 3/14 (2006.01) F25J 3/02 (2006.01)**

[25] EN

[54] **HYDROCARBON GAS PROCESSING**

[54] **TRAITEMENT D'HYDROCARBURE GAZEUX**

[72] PIERCE, MICHAEL C., US
[72] PETERSON, STEPHEN N., US
[72] ANGUIANO, J. ASCENCION, US
[72] HUDSON, HANK M., US
[72] WILKINSON, JOHN D., US
[71] UOP LLC, US
[85] 2023-05-17
[86] 2021-11-23 (PCT/US2021/072571)
[87] (WO2022/109624)
[30] US (63/117,024) 2020-11-23
[30] US (63/156,446) 2021-03-04

[21] **3,199,366**
[13] A1

[51] **Int.Cl. B01D 29/21 (2006.01) B01D 29/90 (2006.01) B01D 29/96 (2006.01)**

[25] EN

[54] **FILTER INTERLOCK WITH TABS MATING WITH A PEDESTAL OR A HOUSING**

[54] **DISPOSITIF DE VERROUILLAGE DE FILTRE A LANGUETTES S'ACCOUPLANT AVEC UN SOCLE OU UN CARTER**

[72] OEDEWALDT, STEPHEN E., US
[72] IMMEL, JON T., US
[72] RIES, JEFFREY R., US
[72] MOREHOUSE III, DARRELL L., US
[71] CATERPILLAR INC., US
[85] 2023-05-17
[86] 2021-11-15 (PCT/US2021/059335)
[87] (WO2022/115258)
[30] US (17/102,831) 2020-11-24

[21] **3,199,368**
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01) A61K 38/00 (2006.01) C12N 9/90 (2006.01)**

[25] EN

[54] **TYROSYL-LOCK PEPTIDES**

[54] **PEPTIDES A BLOCAGE DE TYROSYLE**

[72] O'KEEFE, BARRY R., US
[72] HAUGH KRUMPE, LAUREN R., US
[72] POMMIER, YVES, US
[72] MARCHAND, CHRISTOPHE R., US
[72] SCHROEDER, INGRID C., US
[72] ROSENGREN, K. JOHAN, AU
[72] WILSON, BRICE A.P., US
[71] UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[71] THE UNIVERSITY OF QUEENSLAND, AU
[85] 2023-05-17
[86] 2021-11-17 (PCT/US2021/059764)
[87] (WO2022/109053)
[30] US (63/115,418) 2020-11-18

[21] **3,199,369**
[13] A1

[51] **Int.Cl. B01D 29/21 (2006.01) B01D 29/90 (2006.01) B01D 29/96 (2006.01)**

[25] EN

[54] **FUEL FILTER PASSAGE FOR DOWNWARD FUEL FLOW DIRECTION**

[54] **PASSAGE DE FILTRE A CARBURANT POUR DIRECTION D'ECOULEMENT DE CARBURANT VERS LE BAS**

[72] IMMEL, JON T., US
[72] OEDEWALDT, STEPHEN ELLIS, US
[72] RIES, JEFFREY R., US
[72] MOREHOUSE, DARRELL L. III, US
[72] SUTTON, BRIAN J., US
[72] BURCAR, QUINTON MARCUS, US
[71] CATERPILLAR INC., US
[85] 2023-05-17
[86] 2021-11-15 (PCT/US2021/059314)
[87] (WO2022/115256)
[30] US (17/102,631) 2020-11-24

[21] **3,199,375**
[13] A1

[51] **Int.Cl. F41H 11/02 (2006.01) F41H 11/04 (2006.01) F42B 12/36 (2006.01) F42B 12/56 (2006.01)**

[25] EN

[54] **PROJECTILE AND METHOD FOR STOPPING AERIAL VEHICLES**

[54] **PROJECTILE ET PROCEDE POUR STOPPER DES VEHICULES AERIENS**

[72] SAARIKKO, MATTI, FI
[72] LEMMETYINEN, JARI, FI
[72] TOIVONEN, VESA, FI
[72] PAIJA, MARKKU, FI
[71] PATRIA LAND OY, FI
[85] 2023-05-17
[86] 2021-11-22 (PCT/FI2021/050800)
[87] (WO2022/112653)
[30] FI (20206193) 2020-11-24

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[21] **3,199,378**
[13] A1

[51] **Int.Cl. B21B 1/16 (2006.01) B21B 39/16 (2006.01) B21B 39/20 (2006.01)**

[25] EN

[54] **TORSION GUIDE, GUIDE APPARATUS AND CORRESPONDING METHOD**

[54] **GUIDE DE TORSION, APPAREIL DE GUIDAGE ET PROCEDE CORRESPONDANT**

[72] DE GIORGIO, TIZIANO, IT

[72] CAPRA, SALVATORE, IT

[71] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT

[85] 2023-05-17

[86] 2021-11-09 (PCT/IT2021/050366)

[87] (WO2022/113136)

[30] IT (10202000028157) 2020-11-24

[21] **3,199,387**
[13] A1

[51] **Int.Cl. G16H 10/40 (2018.01) G06V 10/10 (2022.01) G06V 10/22 (2022.01) G06V 10/25 (2022.01) G06V 10/98 (2022.01)**

[25] EN

[54] **IMAGE CAPTURE FOR DIAGNOSTIC TEST RESULTS**

[54] **CAPTURE D'IMAGE POUR RESULTATS DE TEST DE DIAGNOSTIC**

[72] KUMAR, MAYANK, US

[72] MILLER, KEVIN J., US

[72] SCHERF, STEVEN, US

[72] SATISH, SIDDARTH, US

[72] SY, THANG, US

[72] GUHA, UTSHA, US

[71] EXA HEALTH, INC., US

[85] 2023-05-17

[86] 2021-10-26 (PCT/US2021/056670)

[87] (WO2022/108711)

[30] US (63/115,889) 2020-11-19

[21] **3,199,394**
[13] A1

[51] **Int.Cl. C22B 7/00 (2006.01) C22B 23/02 (2006.01) C22B 23/06 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **PROCESS FOR RECOVERING MATERIALS FROM SPENT RECHARGEABLE LITHIUM BATTERIES**

[54] **PROCEDE DE RECUPERATION DE MATERIAUX A PARTIR DE BATTERIES AU LITHIUM RECHARGEABLES USAGEES**

[72] ZOU, FENG, US

[72] YANG, QUANMIN, US

[72] PASERIN, VLADMIR, US

[72] CARPENTER, ALEX, US

[71] TESLA, INC., US

[85] 2023-05-17

[86] 2021-12-21 (PCT/US2021/064720)

[87] (WO2022/140461)

[30] US (63/130,196) 2020-12-23

[21] **3,199,397**
[13] A1

[51] **Int.Cl. A23K 50/42 (2016.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PET FOOD**

[54] **COMPOSITIONS ET PROCEDES POUR ALIMENTS POUR ANIMAUX DE COMPAGNIE**

[72] SHE, MANJUAN JENNY, US

[72] ASHIE, ISAAC, US

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

[85] 2023-05-17

[86] 2021-11-15 (PCT/IB2021/060571)

[87] (WO2022/123358)

[30] US (63/124,224) 2020-12-11

[21] **3,199,400**
[13] A1

[51] **Int.Cl. B21C 37/08 (2006.01) B21C 51/00 (2006.01) G01B 11/00 (2006.01)**

[25] EN

[54] **POSITION DETECTION APPARATUS FOR SEAM PORTION AND HEATING PORTION OF WELDED STEEL PIPE, MANUFACTURING EQUIPMENT FOR WELDED STEEL PIPE, POSITION DETECTION METHOD FOR SEAM PORTION AND HEATING PORTION OF WELDED STEEL PIPE, MANUFACTURING METHOD FOR WELDED STEEL PIPE, AND QUALITY CONTROL METHOD FOR WELDED STEEL PIPE**

[54] **DISPOSITIF DE DETECTION DE POSITION POUR PARTIE DE SOUDURE ET PARTIE CHAUFFEE DANS UN TUYAU EN ACIER SOUDE, EQUIPEMENT DE FABRICATION DE TUYAU EN ACIER SOUDE, PROCEDE DE DETECTION DE POSITION POUR PARTIE DE SOUDURE ET PARTIE CHAUFFEE DANS UN TUYAU EN ACIER SOUDE, PROCEDE DE FABRICATION DE TUYAU EN ACIER SOUDE ET PROCEDE DE CONTROLE DE QUALITE POUR TUYAU E...**

[72] ONO, HIROAKI, JP

[72] SATO, SHUICHI, JP

[72] KEMMOCHI, MITSUTOSHI, JP

[71] JFE STEEL CORPORATION, JP

[85] 2023-05-17

[86] 2021-09-08 (PCT/JP2021/033008)

[87] (WO2022/118515)

[30] JP (2020-201226) 2020-12-03

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| [51] Int.Cl. A61K 38/18 (2006.01) A61L 27/36 (2006.01) A61L 27/54 (2006.01) A61P 19/00 (2006.01) | [51] Int.Cl. H04W 84/12 (2009.01) H04W 24/08 (2009.01) G06F 21/55 (2013.01) | [51] Int.Cl. A23L 33/105 (2016.01) A61K 8/9794 (2017.01) A61K 36/899 (2006.01) A61P 5/24 (2006.01) |
| [25] EN | [25] EN | [25] EN |
| [54] PAINLESS NERVE GROWTH FACTOR FOR FRACTURE REPAIR | [54] A DEVICE AND PROCESS FOR DETECTING AND LOCATING SOURCES OF WIRELESS DATA PACKETS | [54] COMPOSITION FOR PREVENTING, AMELIORATING OR TREATING ANDROGEN-DEPENDENT DISORDER COMPRISING PHYLLOSTACHYS PUBESCENS EXTRACT AS EFFECTIVE COMPONENT |
| [54] FACTEUR DE CROISSANCE NERVEUSE INDOLORE POUR REPARATION DE FRACTURES | [54] DISPOSITIF ET PROCEDE DE DETECTION ET DE LOCALISATION DE SOURCES DE PAQUETS DE DONNEES SANS FIL | [54] COMPOSITION DESTINEE A PREVENIR, A ATTENUER OU A TRAITER DES MALADIES DEPENDANTES DES ANDROGENES, CONTENANT UN EXTRAIT DE FEUILLE DE BAMBOU EN TANT QUE PRINCIPE ACTIF |
| [72] BAHNEY, CHELSEA, US | [72] THOMPSON, MICHAEL PHILLIP, AU | [72] SONG, KWANG-HOON, KR |
| [72] DESAI, TEJAL, US | [71] SERINUS SECURITY PTY LTD, AU | [71] KOREA INSTITUTE OF ORIENTAL MEDICINE, KR |
| [72] RIVERA, KEVIN, US | [85] 2023-05-23 | [85] 2023-05-24 |
| [72] WU, CHENGBIAO, US | [86] 2021-09-02 (PCT/AU2021/051017) | [86] 2020-10-27 (PCT/KR2020/014701) |
| [71] STEADMAN PHILIPPON RESEARCH INSTITUTE, US | [87] (WO2022/047534) | [87] (WO2021/107414) |
| [71] BAHNEY, CHELSEA, US | [30] AU (2020903138) 2020-09-02 | [30] KR (10-2019-0156718) 2019-11-29 |
| [71] DESAI, TEJAL, US | | |
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| | [72] KOONTZ, TED, US | |
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| [51] Int.Cl. A01B 79/00 (2006.01) G06Q 50/02 (2012.01) G06T 7/90 (2017.01) G06F 16/587 (2019.01) A01M 7/00 (2006.01) | [72] MANDELL, ASHLEY, US | |
| [25] EN | [72] KRISTON, GARRETT, US | |
| [54] A METHOD OF SELECTIVELY TREATING VEGETATION IN A FIELD | [72] FELICIANO, LIZNAIR, US | |
| [54] PROCEDE DE TRAITEMENT SELECTIF DE VEGETATION DANS UN CHAMP | [72] PRICE, EMMA, US | |
| [72] THOMPSON, HEATH AARON, AU | [71] BRAVADO PHARMACEUTICALS, LLC, US | |
| [72] SNOWBALL, ANDREW DOUGLAS, AU | [71] MCMILLAN, BRIAN, US | |
| [72] LOWE, DAVID PAUL, AU | [71] KOONTZ, TED, US | |
| [71] EXEL INDUSTRIES, FR | [71] BERBERICH, MOLLY, US | |
| [85] 2023-05-19 | [71] MANDELL, ASHLEY, US | |
| [86] 2021-06-17 (PCT/IB2021/055345) | [71] KRISTON, GARRETT, US | |
| [87] (WO2021/255676) | [71] FELICIANO, LIZNAIR, US | |
| [30] AU (2020902018) 2020-06-18 | [71] PRICE, EMMA, US | |
| | [85] 2023-05-24 | |
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[21] **3,200,187**
[13] A1

[51] **Int.Cl. A61B 5/022 (2006.01) A61B 50/30 (2016.01)**

[25] EN

[54] **SINGLE-USE PROTECTIVE SLEEVE INTENDED TO HOUSE A SPHYGMOMANOMETER CUFF**

[54] **HOUSSE DE PROTECTION A USAGE UNIQUE DESTINEE A LOGER UN MANCHON DE TENSIONNOMETRE**

[72] MARQUEZ HERNANDEZ, VERONICA V., ES

[72] GUTIERREZ PUERTAS, LORENA, ES

[72] AGUILERA MANRIQUE, GABRIEL, ES

[72] ALCAYDE GARCIA, ALFREDO, ES

[72] GIL MONTOYA, FRANCISCO, ES

[72] MANZANO AGUGLIARO, FRANCISCO, ES

[72] GARRIDO MOLINA, JOSE MIGUEL, ES

[72] GARCIA VIOLA, ALBA, ES

[72] PENA FERNANDEZ, ANA ARACELI, ES

[71] UNIVERSIDAD DE ALMERIA, ES

[85] 2023-05-25

[86] 2021-10-07 (PCT/ES2021/070731)

[87] (WO2022/106735)

[30] ES (U202032506) 2020-11-19

[21] **3,200,610**
[13] A1

[51] **Int.Cl. A61B 17/12 (2006.01) A61F 11/08 (2006.01) A61F 13/00 (2006.01) A61H 35/04 (2006.01) A61M 3/00 (2006.01) A61M 11/00 (2006.01) A61M 15/08 (2006.01) A61P 11/00 (2006.01) H04R 1/10 (2006.01) H04R 25/00 (2006.01)**

[25] EN

[54] **PLUG FOR INSERTION INTO THE NOSE OR EAR OF A SUBJECT FOR ADMINISTERING A FLUID THERAPEUTIC AGENT**

[54] **BOUCHON DESTINE A ETRE INSERE DANS LE NEZ OU L'OREILLE D'UN SUJET POUR ADMINISTRER UN AGENT THERAPEUTIQUE FLUIDE**

[72] AHNBLAD, SUSANNE, SE

[72] AHNBLAD, PETER, SE

[71] HOGNE AB, SE

[85] 2023-05-30

[86] 2021-11-12 (PCT/SE2021/051136)

[87] (WO2022/103319)

[30] US (17/095,844) 2020-11-12

[21] **3,200,618**
[13] A1

[51] **Int.Cl. A61H 3/00 (2006.01) B25J 9/00 (2006.01)**

[25] EN

[54] **LIFTING AID AND FIXED BACK ELEMENT**

[54] **DISPOSITIF D'AIDE AU LEVAGE ET ELEMENT DORSAL FIXE**

[72] HEINZELMANN, DOMINIK, DE

[71] HEINZELMANN, DOMINIK, DE

[85] 2023-05-30

[86] 2021-11-19 (PCT/DE2021/100921)

[87] (WO2022/105966)

[30] DE (20 2020 106 6660.9) 2020-11-19

[21] **3,200,855**
[13] A1

[51] **Int.Cl. A01K 67/027 (2006.01) C07K 14/47 (2006.01) C12N 15/11 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **INFLUENZA A-RESISTANT ANIMALS HAVING EDITED ANP32 GENES**

[54] **ANIMAUX RESISTANTS A LA GRIPPE A AYANT DES GENES ANP32 MODIFIES**

[72] BURGER, BRIAN, US

[72] BEATON, BENJAMIN, US

[71] PIG IMPROVEMENT COMPANY UK LIMITED, GB

[85] 2023-05-04

[86] 2021-11-15 (PCT/GB2021/052942)

[87] (WO2022/101641)

[30] US (63/114,084) 2020-11-16

[21] **3,200,856**
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 38/08 (2019.01) A61P 25/00 (2006.01)**

[25] EN

[54] **ANTINOCICEPTIVE COMPOUNDS AND USES THEREOF**

[54] **COMPOSES ANTINOCICEPTIFS ET LEURS UTILISATIONS**

[72] LI, SHYH-DAR, CA

[72] VISWANADHAM, KK DURGRA RAO, CA

[72] BOETTGER, ROLAND, CA

[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA

[85] 2023-05-04

[86] 2021-11-18 (PCT/IB2021/060724)

[87] (WO2022/107049)

[30] US (63/115,905) 2020-11-19

[21] **3,200,858**
[13] A1

[51] **Int.Cl. A61K 47/00 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTI-CD48 ANTIBODIES, ANTIBODY DRUG CONJUGATES, AND USES THEREOF**

[54] **ANTICORPS ANTI-CD48, CONJUGUES ANTICORPS-MEDICAMENT ET LEURS UTILISATIONS**

[72] D'ALESSIO, JOSEPH ANTHONY, US

[72] KLINTER, CLAUDIA JUDITH, CH

[72] MUNDT, CORNELIA ANNE, CH

[72] NEWCOMBE, RICHARD VAUGHAN, US

[72] SCHWEIGHOFFER, TAMAS, CH

[72] WINKELBACH, KATHARINA, CH

[71] NOVARTIS AG, CH

[85] 2023-05-04

[86] 2021-11-23 (PCT/IB2021/060871)

[87] (WO2022/112942)

[30] US (63/117,817) 2020-11-24

[21] **3,200,860**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **ANTI-TSPAN8/ANTI-CD3 BISPECIFIC ANTIBODY AND ANTI-TSPAN8 ANTIBODY**

[54] **ANTICORPS BISPECIFIQUE ANTI-TSPAN8-ANTI-CD3 ET ANTICORPS ANTI-TSPAN8**

[72] TENDA, YOSHIYUKI, JP

[72] YURI, MASATOSHI, JP

[72] YAMAJUKU, DAISUKE, JP

[72] TSUTSUMI, TAKESHI, JP

[72] KUSUZAKI, YUKO, JP

[72] SASAKI, HIROKI, JP

[72] CHIWAKI, FUMIKO, JP

[72] KOMATSU, MASAYUKI, JP

[71] ASTELLAS PHARMA INC., JP

[71] NATIONAL CANCER CENTER, JP

[85] 2023-05-04

[86] 2021-11-15 (PCT/JP2021/041839)

[87] (WO2022/102768)

[30] JP (2020-189988) 2020-11-16

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[13] A1

[51] **Int.Cl. F16L 35/00 (2006.01) F16L 33/22 (2006.01) F16L 37/091 (2006.01) F16L 37/092 (2006.01)**

[25] EN
[54] **PLUMBING FITTING**
[54] **RACCORD DE PLOMBERIE**
[72] WESTER, JAYASIRI, NZ
[71] WESTER, JAYASIRI, NZ
[85] 2023-05-04
[86] 2021-10-22 (PCT/NZ2021/050187)
[87] (WO2022/103277)
[30] NZ (769856) 2020-11-11

[21] **3,200,939**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61F 5/56 (2006.01) A61N 1/05 (2006.01) A61N 1/36 (2006.01) A61N 1/372 (2006.01)**

[25] EN
[54] **SENSORS AND METHODS FOR DETERMINING RESPIRATION**
[54] **CAPTEURS ET METHODES DE DETERMINATION DE LA RESPIRATION**
[72] ELYAHOODAYAN, SAHAR, US
[72] SHELTON, BRIAN M., US
[72] TALBOT, NEIL H., US
[71] THE ALFRED E. MANN FOUNDATION FOR SCIENTIFIC RESEARCH, US
[85] 2023-05-04
[86] 2021-11-04 (PCT/US2021/072247)
[87] (WO2022/099292)
[30] US (63/109,491) 2020-11-04

[21] **3,200,940**
[13] A1

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

[25] EN
[54] **SENSORS AND METHODS FOR DETERMINING RESPIRATION**
[54] **CAPTEURS ET METHODES DE DETERMINATION DE LA RESPIRATION**
[72] ELYAHOODAYAN, SAHAR, US
[72] SHELTON, BRIAN M., US
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[71] THE ALFRED E. MANN FOUNDATION FOR SCIENTIFIC RESEARCH, US
[85] 2023-05-04
[86] 2021-11-04 (PCT/US2021/072248)
[87] (WO2022/099293)
[30] US (63/109,491) 2020-11-04

[21] **3,200,941**
[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01)**

[25] EN
[54] **AGGREGATE PROCESSING APPARATUS, SYSTEMS, AND METHODS**
[54] **APPAREIL, SYSTEMES ET PROCEDES DE TRAITEMENT D'AGREGATS**
[72] BIBANCOS, DANILLO, US
[72] RODRIGUEZ, JOHN, US
[72] GRIMM, LAFE, US
[72] GORDON, MATTHEW, US
[72] CROOKS, MARK, US
[72] PLATTNER, TROY, US
[71] SUPERIOR INDUSTRIES, LLC, US
[85] 2023-05-04
[86] 2021-11-04 (PCT/US2021/072251)
[87] (WO2022/099294)
[30] US (63/109,513) 2020-11-04

[21] **3,200,942**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 44/00 (2006.01)**

[25] EN
[54] **AGENT GUIDED DRILLING ASSESSMENT**
[54] **EVALUATION DE FORAGE GUIDEE PAR UN AGENT**
[72] YU, YINGWEI, US
[72] JEONG, CHEOLKYUN, US
[72] MEEHAN, RICHARD JOHN, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2023-05-04
[86] 2021-11-08 (PCT/US2021/072283)
[87] (WO2022/099311)
[30] US (63/198,709) 2020-11-06

[21] **3,200,943**
[13] A1

[51] **Int.Cl. E21B 25/02 (2006.01) E21B 25/04 (2006.01)**

[25] EN
[54] **CORE BARREL AND CORE DRILLING SYSTEMS AND METHODS**
[54] **TUBE CAROTTIER ET SYSTEMES ET PROCEDES DE CAROTTAGE**
[72] SKEELS, TODD, CA
[71] DIASET PRODUCTS LTD., CA
[85] 2023-05-05
[86] 2021-07-09 (PCT/CA2021/050943)
[87] (WO2022/133577)
[30] US (63/128,701) 2020-12-21

[21] **3,200,944**
[13] A1

[51] **Int.Cl. G01B 21/20 (2006.01) F42B 35/00 (2006.01)**

[25] EN
[54] **METHOD AND SYSTEM FOR DETERMINING A SIMILARITY OR DISTANCE MEASURE BETWEEN BALLISTIC SPECIMENS**
[54] **PROCEDE ET SYSTEME DE DETERMINATION D'UNE MESURE DE SIMILARITE OU DE DISTANCE ENTRE DES ECHANTILLONS BALISTIQUES**
[72] ROBERGE, DANNY, CA
[72] BEAUCHAMP, ALAIN, CA
[72] LEVESQUE, SERGE, CA
[71] ULTRA ELECTRONICS FORENSIC TECHNOLOGY INC., CA
[85] 2023-05-05
[86] 2021-11-04 (PCT/CA2021/051571)
[87] (WO2022/094713)
[30] US (63/110,682) 2020-11-06

[21] **3,200,945**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/215 (2006.01) A61K 39/385 (2006.01) A61P 31/14 (2006.01)**

[25] EN
[54] **SARS-COV-2 CONSTRUCTS, VACCINES, AND METHODS**
[54] **CONSTRUCTIONS, VACCINS ET METHODES CONTRE LE SARS-COV-2**
[72] JULIEN, JEAN-PHILIPPE, CA
[72] KASSARDJIAN, AUDREY, CA
[72] BARBER, BRIAN, CA
[71] THE HOSPITAL FOR SICK CHILDREN, CA
[85] 2023-05-05
[86] 2021-11-05 (PCT/CA2021/051581)
[87] (WO2022/094721)
[30] US (63/110,881) 2020-11-06

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[21] **3,200,946**
[13] A1

[51] **Int.Cl. F16B 43/00 (2006.01) F16B 35/00 (2006.01) F16B 39/24 (2006.01)**
[25] EN
[54] **ACOUSTICALLY ATTENUATING FASTENERS**
[54] **ELEMENTS DE FIXATION D'ATTENUATION ACOUSTIQUE**
[72] BOONA, ISABEL N., US
[72] O'LEARY, ROBERT J., US
[72] TAYLOR, COREY A., US
[72] HERREMAN, KEVIN M., US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2023-05-05
[86] 2021-09-15 (PCT/US2021/050373)
[87] (WO2022/103483)
[30] US (63/113,235) 2020-11-13

[21] **3,200,947**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR OPERATING AN INTERACTIVE CUSTOMER SERVICE EXPERIENCE**
[54] **SYSTEMES ET PROCEDES POUR COMMANDER UNE EXPERIENCE DE SERVICE A LA CLIENTELE INTERACTIF**
[72] PHAM, VINCENT, US
[72] ADCOCK, LEE, US
[72] GHALATY, NAHID FARHADY, US
[72] SHYAMALA, GEETA, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2023-05-05
[86] 2021-10-26 (PCT/US2021/056526)
[87] (WO2022/103570)
[30] US (17/093,698) 2020-11-10

[21] **3,200,948**
[13] A1

[51] **Int.Cl. B60N 2/02 (2006.01) B60N 2/23 (2006.01) B60N 2/56 (2006.01)**
[25] EN
[54] **VEHICLE SEAT MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE SIEGES DE VEHICULE**
[72] MEYER, DANIEL CHRISTOPHER, US
[71] INNOVATIVE BIOMECHANICAL SOLUTIONS, LLC, US
[85] 2023-05-05
[86] 2021-11-03 (PCT/US2021/057812)
[87] (WO2022/098691)
[30] US (17/091,305) 2020-11-06

[21] **3,200,949**
[13] A1

[51] **Int.Cl. G21B 1/05 (2006.01) G21B 1/11 (2006.01) G21B 1/21 (2006.01)**
[25] EN
[54] **ANEUTRONIC FUSION PLASMA REACTOR AND ELECTRIC POWER GENERATOR**
[54] **REACTEUR DE FUSION ANEUTRONIQUE A PLASMA ET GENERATEUR D'ENERGIE ELECTRIQUE**
[72] KOPP, KEN E., US
[72] WOOD, RYAN S., US
[71] KOPP, KEN E., US
[71] WOOD, RYAN S., US
[85] 2023-05-05
[86] 2021-11-03 (PCT/US2021/057875)
[87] (WO2022/098741)
[30] US (63/204,995) 2020-11-09

[21] **3,200,950**
[13] A1

[51] **Int.Cl. D06M 13/322 (2006.01) D06M 15/53 (2006.01)**
[25] EN
[54] **USE OF SILICEOUS QUATERNARY AMINES IN DURABLE ANTIMICROBIAL TREATMENT OF TEXTILE FOR USE IN HEALTHCARE ENVIRONMENT**
[54] **UTILISATION D'AMINES QUATERNAIRES SILICEUSES DANS LE TRAITEMENT ANTIMICROBIEN DURABLE DE TEXTILE DESTINE A ETRE UTILISE DANS UN ENVIRONNEMENT DE SOINS DE SANTE**
[72] LAU, JOHNSON YIU-NAM, US
[72] WONG, CHUN HO, CN
[72] YIM, SUI LUNG, CN
[71] LAU, JOHNSON YIU-NAM, US
[85] 2023-05-05
[86] 2021-11-04 (PCT/US2021/058055)
[87] (WO2022/103649)
[30] US (63/110,049) 2020-11-05

[21] **3,200,951**
[13] A1

[51] **Int.Cl. F01B 11/00 (2006.01) F01B 11/02 (2006.01) F02B 63/04 (2006.01) H02P 5/46 (2006.01) H02P 5/52 (2016.01) H02P 6/00 (2016.01) H02P 6/10 (2016.01)**
[25] EN
[54] **CORE SYNCHRONIZATION FOR LINEAR GENERATORS**
[54] **SYNCHRONISATION DE NOYAUX POUR GENERATEURS LINEAIRES**
[72] SCHAEFERLE, NICK, US
[72] WONG, YUK HEI, US
[72] GORZELIC, PATRICK, US
[72] ROELLE, MATTHEW, US
[71] MAINSPRING ENERGY, INC., US
[85] 2023-05-05
[86] 2021-11-04 (PCT/US2021/058056)
[87] (WO2022/098869)
[30] US (63/109,973) 2020-11-05

[21] **3,200,952**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 9/50 (2006.01) A61K 31/353 (2006.01)**
[25] EN
[54] **SUSTAINED RELEASE SOLID DOSAGE FORMS FOR MODULATING THE COLONIC MICROBIOME**
[54] **FORMES POSOLOGIQUES SOLIDES A LIBERATION PROLONGEE DE MODULATION DU MICROBIOME DU COLON**
[72] BARRETT, RYAN, US
[72] BHAGAT, HITESH, US
[72] CAMPBELL, ANTHONY STEWART, US
[71] AXIAL THERAPEUTICS, INC., US
[85] 2023-05-05
[86] 2021-11-04 (PCT/US2021/058071)
[87] (WO2022/098879)
[30] US (17/089,956) 2020-11-05

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[21] **3,200,954**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **FAB HIGH MANNOSE GLYCOFORMS**
[54] **GLYCOFORMES FAB A HAUTE TENEUR EN MANNOSE**
[72] JOERIS, KLAUS, DE
[72] OEZDEN, NESLIHAN, DE
[72] RICHTER, WOLFGANG, CH
[72] SCHMIDT, BRITTA, DE
[72] HOFMANN, CARSTEN, CH
[72] LAU, WILMA, DE
[72] STAACK, ROLAND, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2023-05-05
[86] 2021-11-04 (PCT/EP2021/080692)
[87] (WO2022/101088)
[30] EP (20207804.4) 2020-11-16

[21] **3,200,958**
[13] A1

[51] **Int.Cl. C09K 8/508 (2006.01) C09K 8/594 (2006.01) E21B 43/16 (2006.01)**
[25] EN
[54] **METHODS OF ENHANCED OIL RECOVERY USING DENSE CARBON DIOXIDE COMPOSITIONS**
[54] **PROCEDES DE RECUPERATION ASSISTEE DU PETROLE A L'AIDE DE COMPOSITIONS DE DIOXYDE DE CARBONE DENSES**
[72] ALYOUSIF, ZUHAIR, SA
[72] ALMAJID, MUHAMMAD MAJID, SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2023-05-05
[86] 2021-11-04 (PCT/US2021/058018)
[87] (WO2022/103645)
[30] US (17/097,537) 2020-11-13

[21] **3,200,960**
[13] A1

[51] **Int.Cl. G06F 11/30 (2006.01)**
[25] EN
[54] **CONNECTED DIAGNOSTIC SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DIAGNOSTIC CONNEXTE**
[72] JORDAN, LAWRENCE B., US
[72] MATTA, LISA A., US
[72] VEERANNA GOWDA, CHAITANYA RANI, US
[72] ABBAS, SYED OUN, US
[72] HAMSMITH, MATTHEW D., US
[71] WI-TRONIX, LLC, US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058177)
[87] (WO2022/098947)
[30] US (63/110,628) 2020-11-06
[30] US (17/518,868) 2021-11-04

[21] **3,200,955**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/68 (2017.01) A61K 9/19 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CEACAM5 ANTIBODY-DRUG CONJUGATE FORMULATION**
[54] **FORMULATION DE CONJUGUE ANTICORPS-MEDICAMENT CEACAM5**
[72] AUTHELIN, JEAN-RENE, FR
[72] BENSALID, FETHI, FR
[72] BONESTEBE, AUDREY, FR
[72] HUILLE, SYLVAIN, FR
[72] LEMAN, MARIE, FR
[72] MANACHE-ALBERICI, LUCIE, FR
[71] SANOFI, FR
[85] 2023-05-05
[86] 2021-11-09 (PCT/EP2021/081038)
[87] (WO2022/101165)
[30] EP (20315449.7) 2020-11-10

[21] **3,200,959**
[13] A1

[51] **Int.Cl. G01N 30/72 (2006.01) G01N 30/88 (2006.01) G01N 33/487 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING HOMOCYSTINURIA AND OTHER CONDITIONS USING POLYAMINES**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE L'HOMOCYSTINURIE ET D'AUTRES PATHOLOGIES A L'AIDE DE POLYAMINES**
[72] MACLEAN, KENNETH N., US
[72] JIANG, HUA, US
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[85] 2023-05-05
[86] 2021-11-04 (PCT/US2021/058107)
[87] (WO2022/098908)
[30] US (63/109,983) 2020-11-05

[21] **3,200,966**
[13] A1

[51] **Int.Cl. B27N 1/00 (2006.01) B27N 3/00 (2006.01) B27N 3/04 (2006.01) B27N 3/18 (2006.01) D21B 1/36 (2006.01) D21C 5/02 (2006.01) D21H 11/14 (2006.01)**
[25] EN
[54] **APPARATUS FOR RECYCLING OF LIGNOCELLULOSIC FIBRES FROM FIBREBOARDS**
[54] **APPAREIL POUR LE RECYCLAGE DE FIBRES LIGNOCELLULOSIQUES A PARTIR DE PANNEAUX DE FIBRES**
[72] FECHTER, JAN-OLOF, SE
[72] GERMANN, MICHAEL, DE
[72] HAKANSSON, PONTUS, SE
[71] IKEA SUPPLY AG, CH
[85] 2023-05-05
[86] 2021-11-09 (PCT/EP2021/081098)
[87] (WO2022/096743)
[30] SE (2051303-2) 2020-11-09

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[21] **3,200,968**
[13] A1

[51] **Int.Cl. A61K 39/09 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **IMMUNOGENIC COMPOSITIONS COMPRISING CONJUGATED CAPSULAR SACCHARIDE ANTIGENS AND USES THEREOF**
[54] **COMPOSITIONS IMMUNOGENES COMPRENANT DES ANTIGENES SACCHARIDIQUES CAPSULAIRES CONJUGUES ET LEURS UTILISATIONS**
[72] BROWN, PAUL WAYNE, US
[72] DUTTA, KAUSHIK, US
[72] LOTVIN, JASON ARNOLD, US
[72] SACKETT, KELLY JEFFREY, US
[71] PFIZER INC., US
[85] 2023-05-05
[86] 2021-11-04 (PCT/IB2021/060217)
[87] (WO2022/101745)
[30] US (63/111,765) 2020-11-10

[21] **3,200,972**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 21/04 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **FCRN ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-FCRN ET LEURS METHODES D'UTILISATION**
[72] RAMCHANDREN, SINDHU, US
[72] SUN, HONG, US
[72] DENNEY, WILLIAM, US
[72] ARROYO, SANTIAGO, US
[72] LING, LEONA E., US
[72] LEU, JOCELYN H., US
[72] JIN, JIANHUA, US
[72] JOUVIN, MARIE-HELENE, US
[72] KARCHER, KEITH, US
[72] BLACK, SHAWN, US
[72] ZHU, YAOWEI, US
[71] MOMENTA PHARMACEUTICALS, INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058188)
[87] (WO2022/098955)
[30] US (63/110,884) 2020-11-06
[30] US (63/137,972) 2021-01-15
[30] US (63/173,126) 2021-04-09
[30] US (63/173,919) 2021-04-12
[30] US (63/174,423) 2021-04-13
[30] US (63/175,440) 2021-04-15
[30] US (63/203,075) 2021-07-07
[30] US (63/203,077) 2021-07-07
[30] US (63/219,155) 2021-07-07

[21] **3,200,973**
[13] A1

[51] **Int.Cl. C12Q 1/06 (2006.01)**
[25] EN
[54] **USE OF MICROBIOME AND METOBOLOME CLUSTERS TO EVALUATE SKIN HEALTH**
[54] **UTILISATION DES CLUSTERS DU MICROBIOME ET DU METOBOLOME POUR EVALUER LA SANTE DE LA PEAU**
[72] ODDOS, THIERRY, FR
[72] STAMATAS, GEORGIOS N., FR
[72] ROUX, PIERRE-FRANCOIS, FR
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2023-05-05
[86] 2021-11-04 (PCT/IB2021/060234)
[87] (WO2022/097069)
[30] US (63/110,445) 2020-11-06

[21] **3,200,974**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 47/68 (2017.01) A61K 33/243 (2019.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 16/28 (2006.01) C07K 16/32 (2006.01) C07K 16/42 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY ANTIBODY DRUG CONJUGATE WITH IMMUNE CELL INHIBITOR**
[54] **POLYTHERAPIE A BASE D'UN CONJUGUE ANTICORPS-MEDICAMENT AVEC UN NHIBITEUR DE CELLULES IMMUNITAIRES**
[72] GARDAI, SHYRA, US
[72] SMITH, ALYSON, US
[72] KLUSSMAN, KERRY, US
[72] LIU, BERNARD, US
[72] VAN EPPS, HEATHER, US
[71] SEAGEN INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058208)
[87] (WO2022/098972)
[30] US (63/111,045) 2020-11-08
[30] US (63/172,411) 2021-04-08
[30] US (63/208,179) 2021-06-08

[21] **3,200,975**
[13] A1

[51] **Int.Cl. A61K 31/395 (2006.01) A61P 35/00 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **MACROCYCLIC COMPOUNDS AND METHODS OF USE THEREOF**
[54] **COMPOSES MACROCYCLIQUES ET LEURS PROCEDES D'UTILISATION**
[72] SALTER, RHYS, US
[72] DUDKIN, VADIM Y., US
[72] SONG, FENGBIN, US
[72] ZHANG, WEI, US
[72] GOLDBERG, SHALOM, US
[72] KEITH, JOHN, US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-05-05
[86] 2021-11-09 (PCT/IB2021/060350)
[87] (WO2022/101771)
[30] US (63/111,933) 2020-11-10

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[21] **3,200,977**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/22 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **NUCLEAR PROTEIN TARGETING ENGINEERED DEUBIQUITINASES AND METHODS OF USE THEREOF**
[54] **DESUBIQUITINASES MODIFIEES CIBLANT DES PROTEINES NUCLEAIRES ET LEURS METHODES D'UTILISATION**
[72] LOEW, ANDREAS, US
[72] HALL, SAMUEL W., US
[71] FLUX THERAPEUTICS, INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058276)
[87] (WO2022/099025)
[30] US (63/110,616) 2020-11-06

[21] **3,200,980**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/22 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **CYTOSOLIC PROTEIN TARGETING ENGINEERED DEUBIQUITINASES AND METHODS OF USE THEREOF**
[54] **DESUBIQUITINASES MODIFIEES CIBLANT UNE PROTEINE CYTOSOLIQUE ET LEURS METHODES D'UTILISATION**
[72] LOEW, ANDREAS, US
[72] HALL, SAMUEL W., US
[71] FLUX THERAPEUTICS, INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058285)
[87] (WO2022/099033)
[30] US (63/110,622) 2020-11-06

[21] **3,200,983**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/22 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **MEMBRANE PROTEIN TARGETING ENGINEERED DEUBIQUITINASES AND METHODS OF USE THEREOF**
[54] **DESUBIQUITINASES MODIFIEES CIBLANT DES PROTEINES MEMBRANAIRES ET LEURS METHODES D'UTILISATION**
[72] LOEW, ANDREAS, US
[72] HALL, SAMUEL W., US
[71] FLUX THERAPEUTICS, INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058291)
[87] (WO2022/099038)
[30] US (63/110,619) 2020-11-06

[21] **3,200,978**
[13] A1

[51] **Int.Cl. G01P 15/16 (2013.01)**
[25] EN
[54] **DETECTION OF COUPLING SLIPPAGE IN ROTARY ENCODER SYSTEMS**
[54] **DETECTION DE GLISSEMENT D'ACCOUPLLEMENT DANS SYSTEMES DE CODEURS ROTATIFS**
[72] CACHRO, ROBERT, US
[72] BATMEND, MICHAEL, SK
[72] READING, JOHN, US
[72] KIRKENDALL, RYAN, US
[72] PARKS, MICHAEL, US
[72] LAUTERBACH, SARAH, US
[72] RIBAR, EDUARD, SK
[71] HENGSTLER GMBH, DE
[71] DYNAPAR CORPORATION, US
[85] 2023-05-05
[86] 2021-11-09 (PCT/IB2021/060366)
[87] (WO2022/097120)
[30] US (63/198,733) 2020-11-09

[21] **3,200,982**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/22 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **MITOCHONDRIAL PROTEIN TARGETING ENGINEERED DEUBIQUITINASES AND METHODS OF USE THEREOF**
[54] **DESUBIQUITINASES MODIFIEES CIBLANT UNE PROTEINE MITOCHONDRIALE ET LEURS METHODES D'UTILISATION**
[72] LOEW, ANDREAS, US
[72] HALL, SAMUEL W., US
[71] FLUX THERAPEUTICS, INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058286)
[87] (WO2022/099034)
[30] US (63/110,625) 2020-11-06

[21] **3,200,986**
[13] A1

[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/44 (2006.01) A61K 31/505 (2006.01)**
[25] EN
[54] **RAF INHIBITOR FOR TREATING LOW GRADE GLIOMA**
[54] **INHIBITEUR DE RAF POUR TRAITER LE GLIOME DE BAS GRADE**
[72] WRIGHT, KAREN D., US
[72] HAAS-KOGAN, DAPHNE ADELE, US
[72] BLACKMAN, SAMUEL C., US
[71] DAY ONE BIOPHARMACEUTICALS, INC., US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2023-05-05
[86] 2021-11-05 (PCT/US2021/058337)
[87] (WO2022/099074)
[30] US (63/110,724) 2020-11-06
[30] US (63/138,285) 2021-01-15

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[21] **3,200,988**
[13] A1

[51] **Int.Cl. A61K 31/724 (2006.01) A61K 45/06 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TREATMENT OF GAIT DYSFUNCTION IN NEURODEGENERATIVE DISEASE**

[54] **TRAITEMENT D'UN DYSFONCTIONNEMENT DE LA MARCHE DANS LE CADRE D'UNE MALADIE NEURODEGENERATIVE**

[72] ALAM, JOHN JAHANGIR, US

[71] EIP PHARMA, INC., US

[85] 2023-05-05

[86] 2021-11-05 (PCT/US2021/058361)

[87] (WO2022/099095)

[30] US (63/110,922) 2020-11-06

[21] **3,200,990**
[13] A1

[51] **Int.Cl. H04W 4/02 (2018.01) H04W 4/029 (2018.01)**

[25] EN

[54] **GEOGRAPHIC ADDRESSING OF FIELD EQUIPMENT**

[54] **ADRESSAGE GEOGRAPHIQUE D'UN EQUIPEMENT DE TERRAIN**

[72] RICHARDSON, ROBERT WALTER, US

[72] HAYNES, DAVIU DONALD, US

[72] DEVEREAUX, PEGGY ROSE, US

[71] ACLARA TECHNOLOGIES LLC, US

[85] 2023-05-05

[86] 2021-11-08 (PCT/US2021/058431)

[87] (WO2022/099120)

[30] US (63/110,690) 2020-11-06

[21] **3,200,998**
[13] A1

[51] **Int.Cl. A61K 31/403 (2006.01) A61P 29/00 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CONDITIONS RELATED TO THE S1P1 RECEPTOR**

[54] **PROCEDES DE TRAITEMENT D'ETATS LIES AU RECEPTEUR S1P1**

[72] FUNG, MAPLE, US

[72] SELFRIDGE, ANDREW CHRISTOPHER WESLEY, US

[72] AHLUWALIA, GURPREET, US

[71] ARENA PHARMACEUTICALS, INC., US

[85] 2023-05-05

[86] 2021-11-08 (PCT/US2021/058483)

[87] (WO2022/099150)

[30] US (63/111,312) 2020-11-09

[21] **3,201,000**
[13] A1

[51] **Int.Cl. A61K 31/403 (2006.01) A61P 29/00 (2006.01) A61P 37/02 (2006.01)**

[25] EN

[54] **METHODS OF TREATING CONDITIONS RELATED TO THE S1P1 RECEPTOR**

[54] **PROCEDES DE TRAITEMENT D'ETATS LIES AU RECEPTEUR S1P1**

[72] MUNSHI, AMIT D., US

[71] ARENA PHARMACEUTICALS, INC., US

[85] 2023-05-05

[86] 2021-11-08 (PCT/US2021/058488)

[87] (WO2022/099155)

[30] US (63/111,467) 2020-11-09

[21] **3,201,003**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/02 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS RELATING TO GENETICALLY ENGINEERED CELLS EXPRESSING CHIMERIC ANTIGEN RECEPTORS**

[54] **METHODES ET COMPOSITIONS SE RAPPORTANT A DES CELLULES GENETIQUEMENT MODIFIEES EXPRIMANT DES RECEPTEURS D'ANTIGENES CHIMERIQUES**

[72] KASSIM, SADIK, US

[72] SCHERER, JULIAN, US

[72] CANESIN, GIACOMO, US

[72] CHAKRABORTY, TIRTHA, US

[71] VOR BIOPHARMA INC., US

[85] 2023-05-05

[86] 2021-11-12 (PCT/US2021/059182)

[87] (WO2022/104090)

[30] US (63/113,739) 2020-11-13

[30] US (63/229,017) 2021-08-03

[21] **3,201,005**
[13] A1

[51] **Int.Cl. C07H 15/26 (2006.01) C07K 5/117 (2006.01)**

[25] EN

[54] **GLYCOSIDE DUAL-CLEAVAGE LINKERS FOR ANTIBODY-DRUG CONJUGATES**

[54] **LIEURS GLYCOSIDE A DOUBLE CLIVAGE POUR CONJUGUES ANTICORPS-MEDICAMENT**

[72] CHUPRAKOV, STEPAN, US

[72] OGUNKOYA, AYODELE O., US

[71] R.P. SCHERER TECHNOLOGIES, LLC, US

[85] 2023-05-05

[86] 2021-11-19 (PCT/US2021/060193)

[87] (WO2022/109335)

[30] US (63/116,632) 2020-11-20

[30] US (63/139,685) 2021-01-20

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[21] **3,201,008**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 35/17 (2015.01) C12N 15/62 (2006.01)**

[25] EN

[54] **BCMA-TARGETED CHIMERIC ANTIGEN RECEPTORS**

[54] **RECEPTEURS ANTIGENIQUES CHIMERIQUES CIBLANT BCMA**

[72] YAO, YIHONG, CN

[72] HUANG, JIAQI, CN

[72] YAO, XIN, CN

[71] SHANGHAI CELLULAR BIOPHARMACEUTICAL GROUP LTD., CN

[85] 2023-05-05

[86] 2021-12-01 (PCT/US2021/061410)

[87] (WO2022/119923)

[30] US (63/120,692) 2020-12-02

[30] US (63/153,666) 2021-02-25

[30] US (63/212,289) 2021-06-18

[30] US (17/476,661) 2021-09-16

[21] **3,201,013**
[13] A1

[51] **Int.Cl. G21F 9/04 (2006.01) B01D 21/00 (2006.01) B01D 59/08 (2006.01) B01D 59/20 (2006.01) G21F 9/12 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR TREATING FLUID CONTAINING RADIOLOGICAL MATERIAL**

[54] **SYSTEME ET PROCEDE DE TRAITEMENT D'UN FLUIDE CONTENANT DES MATERIAUX RADIOLOGIQUES**

[72] GOWER TUCKER, GRAHAM, US

[72] RICHARDSON, GARETH HUW, US

[71] ATKINS ENERGY PRODUCTS & TECHNOLOGY, LLC, US

[85] 2023-05-05

[86] 2021-12-09 (PCT/US2021/062601)

[87] (WO2022/125772)

[30] US (63/123,321) 2020-12-09

[21] **3,201,017**
[13] A1

[51] **Int.Cl. C08B 37/08 (2006.01) A61K 49/04 (2006.01) C08B 37/00 (2006.01)**

[25] EN

[54] **POLYSACCHARIDES HAVING IMPROVED RADIOCONTRAST PROPERTIES**

[54] **POLYSACCHARIDES PRESENTANT DES PROPRIETES AMELIOREES DE RADIOCONTRASTE**

[72] DELANEY, JOSEPH T., US

[72] KOLSTE, KOLBEIN, US

[72] DYNDIKOVA, TATYANA, US

[71] BOSTON SCIENTIFIC SCIMED, INC., US

[85] 2023-05-05

[86] 2021-12-20 (PCT/US2021/064384)

[87] (WO2022/146749)

[30] US (63/130,950) 2020-12-28

[21] **3,201,019**
[13] A1

[51] **Int.Cl. A61B 17/11 (2006.01)**

[25] EN

[54] **ENDOVASCULAR IMPLANTS AND DEVICES AND METHODS FOR ACCURATE PLACEMENT**

[54] **IMPLANTS ENDOVASCULAIRES AINSI QUE DISPOSITIFS ET PROCEDES DE PLACEMENT PRECIS**

[72] VAN DER BURG, ERIK, US

[72] KLENK, ALAN, US

[71] VENOVA MEDICAL, INC., US

[85] 2023-05-05

[86] 2021-10-27 (PCT/US2021/072064)

[87] (WO2022/099246)

[30] US (63/111,548) 2020-11-09

[30] US (63/245,114) 2021-09-16

[21] **3,201,020**
[13] A1

[51] **Int.Cl. E21B 44/10 (2006.01) G06Q 50/06 (2012.01) H02J 3/46 (2006.01)**

[25] EN

[54] **SYSTEMS AND TECHNIQUES FOR POWER MANAGEMENT**

[54] **SYSTEMES ET TECHNIQUES DE GESTION DE PUISSANCE**

[72] BENSON, TODD W., US

[72] KULAVIK, RICHARD, US

[71] HELMERICH & PAYNE TECHNOLOGIES, LLC, US

[85] 2023-05-05

[86] 2021-11-09 (PCT/US2021/072311)

[87] (WO2022/104330)

[30] US (63/112,083) 2020-11-10

[30] US (63/144,336) 2021-02-01

[30] US (63/191,809) 2021-05-21

[21] **3,201,022**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/11 (2006.01)**

[25] FR

[54] **SYSTEMS FOR CAPTURING SWALLOWING AND REMOTE ANALYSIS, COMPRISING MOVEMENT CAPTURE**

[54] **SYSTEMES DE CAPTATION DE LA DEGLUTITION ET D'ANALYSE A DISTANCE COMPRENANT UNE CAPTURE DE MOUVEMENTS**

[72] PERRIN, NICOLAS, FR

[72] NICOLINI, LINDA, FR

[72] NEVEU, FABRICE, FR

[71] SWALLIS MEDICAL, FR

[85] 2023-03-28

[86] 2021-09-22 (PCT/EP2021/076097)

[87] (WO2022/069321)

[30] EP (20198909.2) 2020-09-29

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[21] **3,201,031**
[13] A1

[51] **Int.Cl. A61K 39/42 (2006.01) A61K 39/44 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **METHODS FOR DETECTING A TARGET IN A SAMPLE USING MUTATED NANOBODIES**

[54] **PROCEDES DE DETECTION D'UNE CIBLE DANS UN ECHANTILLON A L'AIDE DE NANOCORPS MUTES**

[72] SZUNERITS, SABINE, FR

[72] ROUSSEL, ALAIN, FR

[72] CABBILLAU, CHRISTIAN, IT

[72] DEVOS, DAVID, FR

[72] ENGELMAN, ILKA, FR

[72] ALIDJINO, ENAGNON KAZALI, FR

[71] UNIVERSITE DE LILLE, FR

[71] CENTRALE LILLE INSTITUT, FR

[71] UNIVERSITE POLYTECHNIQUE HAUTS-DE-FRANCE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE-CNRS, FR

[71] INSERM (INSTITUT NATIONALE DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] CENTRE HOSPITALIER UNIVERSITAIRE DE LILLE, FR

[71] UNIVERSITE D'AIX-MARSEILLE, FR

[85] 2023-03-28

[86] 2021-10-12 (PCT/EP2021/078184)

[87] (WO2022/079032)

[30] EP (20306199.9) 2020-10-12

[21] **3,201,195**
[13] A1

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

[25] EN

[54] **METHOD FOR DETERMINING WHETHER A SUBJECT IS AT RISK OF DEVELOPING AN ANEMIA AND/OR A METABOLIC CONDITION RELATED TO THE NUTRITIONAL STATE AND/OR FLUID BALANCE OF THE BLOOD**

[54] **METHODE POUR DETERMINER SI UN PATIENT PRESENTE UN RISQUE DE DEVELOPPER UNE ANEMIE ET/OU UN ETAT METABOLIQUE LIES A L'ETAT NUTRITIONNEL ET/OU A L'EQUILIBRE FLUIDIQUE DU SANG**

[72] JULKUNEN, HELI, FI

[72] WURTZ, PETER, FI

[71] NIGHTINGALE HEALTH OYJ, FI

[85] 2023-05-05

[86] 2021-12-02 (PCT/FI2021/050837)

[87] (WO2022/117923)

[30] FI (20206239) 2020-12-02

[21] **3,201,197**
[13] A1

[51] **Int.Cl. B29C 51/14 (2006.01) B32B 38/18 (2006.01) D06N 3/00 (2006.01)**

[25] EN

[54] **PROCESS FOR MOULDING A COMPOSITE PRODUCT FOR COATINGS**

[54] **PROCEDE DE MOULAGE D'UN PRODUIT COMPOSITE POUR REVETEMENTS**

[72] GASTALDI, SERGIO BATTISTA, IT

[72] FUMAGALLI, ANDREA, IT

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

[85] 2023-05-05

[86] 2021-10-18 (PCT/IT2021/050337)

[87] (WO2022/101944)

[30] IT (102020000027227) 2020-11-13

[21] **3,201,245**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR SECURELY ACCESSING AND DISPLAYING INFORMATION ON A DISPLAY DEVICE HAVING MULTIPLE DISPLAY WINDOWS**

[54] **SYSTEME ET PROCEDE POUR ACCEDER ET AFFICHER DE MANIERE SECURISEE DES INFORMATIONS SUR UN DISPOSITIF D'AFFICHAGE AYANT DE MULTIPLES FENETRES D'AFFICHAGE**

[72] HANSON, ROBERT B., US

[72] NARITOKU, DEAN KEI, US

[72] PROVONOST, PETER, US

[71] SHARESAFE MEDIA, LLC, US

[85] 2023-06-05

[86] 2021-07-08 (PCT/US2021/040839)

[87] (WO2022/256023)

[30] US (63/195,594) 2021-06-01

[21] **3,201,255**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/17 (2015.01) C07K 14/705 (2006.01)**

[25] EN

[54] **CHIMERIC ANTIGEN RECEPTOR COMPRISING ANTI-MESOTHELIN SCFV, AND USE THEREOF**

[54] **RECEPTEUR ANTIGENIQUE CHIMERIQUE COMPRENANT UN SCFV ANTI-MESOTHELIN, ET SON UTILISATION**

[72] AN, JAE HYUNG, KR

[72] HAN, NA KYUNG, KR

[71] CELLENGENE INC, KR

[85] 2023-06-05

[86] 2022-05-25 (PCT/KR2022/007425)

[87] (WO2022/250450)

[30] KR (10-2021-0067904) 2021-05-26

Demandes PCT entrant en phase nationale

[21] **3,201,274**
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **CRYSTALLINE FORMS OF 4-AMINO-N-[4-(METHOXYMETHYL)PHENYL]-7-(1-METHYLCYCLOPROPYL)-6-(3-MORPHOLINOPROP-1-YN-1-YL)-7H-PYRROLO[2,3-D]PYRIMIDINE-5-CARBOXAMIDE, METHODS OF PREPARATION, AND USES THEREOF**

[54] **FORMES CRISTALLINES DE 4-AMINO-N-[4-(METHOXYMETHYLE))PHENYL]-7-(1-METHYLCYCLOPROPYLE)-6-(3-MORPHOLINOPROP-1-YN-1-YL)-7 H-PYRROLO [2,3-D] PYRIMIDINE-5-CARBOXAMIDE, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS**

[72] FRASCA, GIONATA, CH
[72] FUMAGALLI, TIZIANO, IT
[72] GIAFFREDA, STEFANO LUCA, IT
[72] MODENA, ENRICO, IT
[72] IANNI, CRISTINA, IT
[71] HELSINN HEALTHCARE SA, CH
[85] 2023-05-08
[86] 2021-11-18 (PCT/EP2021/082093)
[87] (WO2022/106514)
[30] US (63/116,191) 2020-11-20

[21] **3,201,275**
[13] A1

[51] **Int.Cl. A61L 2/00 (2006.01) B01D 61/14 (2006.01) B01D 61/20 (2006.01) B01D 65/10 (2006.01) G01N 15/08 (2006.01)**

[25] EN

[54] **FINAL FILL ASSEMBLY AND METHOD OF INTEGRITY TESTING**

[54] **ENSEMBLE DE REMPLISSAGE FINAL ET PROCEDE DE TEST D'INTEGRITE**

[72] RAHANE, SANTOSH, US
[72] RAYE, CHARLES, US
[72] LEONG, AN SON, US
[71] EMD MILLIPORE CORPORATION, US
[85] 2023-05-08
[86] 2021-11-18 (PCT/US2021/059907)
[87] (WO2022/109145)
[30] US (63/115,838) 2020-11-19

[21] **3,201,276**
[13] A1

[51] **Int.Cl. B02C 17/00 (2006.01) B02C 17/18 (2006.01) B02C 17/20 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEMS, AND METHODS FOR DETECTING AND MODELING MILL CHARGE BEHAVIOR**

[54] **APPAREILS, SYSTEMES ET PROCEDES DE DETECTION ET DE MODELISATION DE COMPORTEMENT DE CHARGE DE BROYEURS**

[72] HAMILTON, IAN, AU
[71] MOLY-COP USA LLC, US
[85] 2023-05-08
[86] 2021-11-18 (PCT/US2021/059874)
[87] (WO2022/109126)
[30] US (63/115,480) 2020-11-18

[21] **3,201,277**
[13] A1

[51] **Int.Cl. B25J 15/06 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR OBJECT PROCESSING USING GRIPPERS FOR OBJECTS WITH LOW POSE AUTHORITY**

[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'OBJETS FAISANT APPEL A DES DISPOSITIFS DE PREHENSION POUR DES OBJETS AYANT UNE FAIBLE APTITUDE A CONSERVER UNE POSE**

[72] ALLEN, THOMAS, US
[72] YAP, JASON, US
[72] WILSON, IAN GERALD, US
[72] ROSE, AIDAN, US
[72] BUDRESKI, MARK F., US
[71] BERKSHIRE GREY ORERATING COMPANY, INC., US
[85] 2023-05-08
[86] 2021-11-18 (PCT/US2021/059841)
[87] (WO2022/109101)
[30] US (63/115,721) 2020-11-19

[21] **3,201,280**
[13] A1

[51] **Int.Cl. B01D 25/00 (2006.01) B01D 29/00 (2006.01) B01D 35/30 (2006.01) B01D 69/10 (2006.01) C07K 1/16 (2006.01)**

[25] EN

[54] **FILTRATION DEVICE FOR BIOPROCESSING**

[54] **DISPOSITIF DE FILTRATION POUR BIOTRAITEMENT**

[72] LEE, HEEJIN, US
[72] SUSIENKA, MICHAEL JAMES, US
[72] LAWSON, JOHNATHAN, US
[72] AMARA, JOHN PAUL, US
[72] ALMASIAN, JOSEPH MICHAES, US
[72] FOLEY, SEAN, US
[72] ORMOND, JAMES, US
[71] EMD MILLIPORE CORPORATION, US
[85] 2023-05-08
[86] 2021-11-16 (PCT/US2021/059460)
[87] (WO2022/108902)
[30] US (63/114,623) 2020-11-17

[21] **3,201,281**
[13] A1

[51] **Int.Cl. G04G 9/00 (2006.01) G04G 11/00 (2006.01)**

[25] EN

[54] **MULTI-FUNCTION CLOCK**

[54] **HORLOGE MULTIFONCTION**

[72] LAI, STEPHANIE, US
[72] LIU, DENNIS, US
[71] LITTLEHIPPO, INC., US
[85] 2023-05-08
[86] 2021-11-15 (PCT/US2021/059373)
[87] (WO2022/104203)
[30] US (63/113,542) 2020-11-13

PCT Applications Entering the National Phase

[21] **3,201,282**
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 7/14 (2006.01) B32B 27/12 (2006.01) B32B 27/20 (2006.01) B32B 27/32 (2006.01) B32B 27/34 (2006.01) B32B 27/36 (2006.01)**

[25] EN

[54] **BREATHABLE BARRIER LAMINATE**

[54] **STRATIFIE BARRIERE PERMEABLE A L'AIR**

[72] JIN, YONGJI, CN

[72] GAO, JUNYING, CN

[72] FANG, MINGLAN, CN

[71] BERRY GLOBAL, INC, US

[85] 2023-05-08

[86] 2021-11-13 (PCT/US2021/059273)

[87] (WO2022/104162)

[30] CN (202011268918.6) 2020-11-13

[30] US (17/525,064) 2021-11-12

[21] **3,201,284**
[13] A1

[51] **Int.Cl. B01J 21/04 (2006.01) B01J 29/74 (2006.01) B01J 35/10 (2006.01) B01J 37/00 (2006.01) C10G 45/64 (2006.01)**

[25] EN

[54] **HIGH NANOPORE VOLUME CATALYST AND PROCESS USING SSZ-91**

[54] **CATALYSEUR A VOLUME NANOPOREUX ELEVE ET PROCESSUS UTILISANT SSZ-91**

[72] ZHANG, YIHUA, US

[72] OJO, ADEOLA FLORENCE, US

[72] LEI, GUAN-DAO, US

[71] CHEVRON U.S.A. INC., US

[85] 2023-05-08

[86] 2021-11-11 (PCT/US2021/058896)

[87] (WO2022/103915)

[30] US (17/095,010) 2020-11-11

[21] **3,201,285**
[13] A1

[51] **Int.Cl. B01J 29/70 (2006.01) B01J 29/72 (2006.01) B01J 29/76 (2006.01) B01J 29/80 (2006.01) C10G 45/62 (2006.01) C10G 45/64 (2006.01) C10G 65/04 (2006.01)**

[25] EN

[54] **CATALYST SYSTEM AND PROCESS USING SSZ-91 AND SSZ-95**

[54] **SYSTEME CATALYTIQUE ET PROCEDE UTILISANT SSZ-91 ET SSZ-95**

[72] ZHANG, YIHUA, US

[72] LEI, GUAN-DAO, US

[71] CHEVRON U.S.A. INC., US

[85] 2023-05-08

[86] 2021-11-11 (PCT/US2021/058893)

[87] (WO2022/103913)

[30] US (17/095,337) 2020-11-11

[21] **3,201,286**
[13] A1

[51] **Int.Cl. H02J 50/10 (2016.01) H02J 50/40 (2016.01) H02J 50/80 (2016.01) H02J 50/90 (2016.01)**

[25] EN

[54] **DISTRIBUTED WIRELESS CHARGING NETWORK FOR AUTOMATED GUIDED VEHICLES**

[54] **RESEAU DE CHARGE SANS FIL DISTRIBUE POUR VEHICULES GUIDES AUTOMATISES**

[72] YANKOWITZ, JOSHUA AARON, US

[71] YANK TECHNOLOGIES, INC., US

[85] 2023-05-08

[86] 2021-11-19 (PCT/US2021/072527)

[87] (WO2022/109605)

[30] US (63/115,982) 2020-11-19

[21] **3,201,287**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR IMPROVED AUTO-CALIBRATION OF A ROBOTIC CELL**

[54] **PROCEDE ET SYSTEME D'AUTO-ETALONNAGE AMELIORE D'UNE CELLULE ROBOTIQUE**

[72] POELMAN, RONALD, US

[72] CLARK, BARRETT, US

[72] AKMAN, OYTUN, US

[72] BROWN, MATTHEW, US

[71] BRIGHT MACHINES, INC., US

[85] 2023-05-08

[86] 2021-11-09 (PCT/US2021/072308)

[87] (WO2022/104328)

[30] US (63/198,757) 2020-11-10

[21] **3,201,288**
[13] A1

[51] **Int.Cl. B82Y 40/00 (2011.01) C09D 1/00 (2006.01) C09D 7/00 (2018.01) C23C 16/06 (2006.01)**

[25] EN

[54] **OXYANIONIC TEMPLATES FOR SURFACE REPLICATION**

[54] **MATRICES OXYANIONIQUES POUR LA REPLICATION DE SURFACE**

[72] BISHOP, MATTHEW, US

[72] BRILL, DAVID ANDREW, US

[72] THOMAS, ABHAY V., US

[71] DICKINSON CORPORATION, US

[85] 2023-05-08

[86] 2021-12-21 (PCT/US2021/064551)

[87] (WO2022/140348)

[30] US (63/129,154) 2020-12-22

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[21] **3,201,290**
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) G01N 29/00 (2006.01)**
[25] EN
[54] **SONOGENETIC STIMULATION OF CELLS EXPRESSING A HETEROLOGOUS MECHANOSENSITIVE PROTEIN**
[54] **STIMULATION SONOGENETIQUE DE CELLULES EXPRIMANT UNE PROTEINE MECANOSENSIBLE HETEROLOGUE**
[72] TUFAIL, YUSUF, US
[72] PATEL, JANKI, US
[72] CHALASANI, SREEKANTH, US
[72] PROCKO, CARL, US
[72] CHORY, JOANNE, US
[72] LOPEZ, JOSE MENDOZA, US
[72] RAMIREZ, MARC DUQUE, US
[72] LEE-KUBLI, CORINNE, US
[72] MURTHY, SWETHA, US
[72] PATAPOUTIAN, ARDEM, US
[72] MOUSAVI, SEYED ALI REZA, US
[72] KEENAN, WILLIAM T., US
[71] SALK INSTITUTE FOR BIOLOGICAL STUDIES, US
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2023-05-08
[86] 2021-11-10 (PCT/US2021/058708)
[87] (WO2022/103788)
[30] US (63/112,256) 2020-11-11

[21] **3,201,291**
[13] A1

[51] **Int.Cl. A61K 8/49 (2006.01) A61Q 5/00 (2006.01) A61Q 5/02 (2006.01) A61Q 5/12 (2006.01)**
[25] EN
[54] **AZOXYSTROBIN EFFICACY IN SCALP HEALTH**
[54] **EFFICACITE DE L'AZOXYSTROBINE DANS LA SANTE DU CUIR CHEVELU**
[72] RICHARDS, JEANETTE ANTHEA, US
[72] KERR, KATHLEEN MARIE, US
[72] FIENO, ANGELA MARIE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2023-05-08
[86] 2021-12-15 (PCT/US2021/063453)
[87] (WO2022/132864)
[30] US (17/126,975) 2020-12-18

[21] **3,201,292**
[13] A1

[51] **Int.Cl. A01N 25/02 (2006.01) A01N 25/04 (2006.01) A01N 25/30 (2006.01) A01N 37/38 (2006.01) A01N 37/40 (2006.01) A01N 39/04 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01N 47/34 (2006.01) A01N 57/20 (2006.01) A01P 3/00 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **LIQUID AGROCHEMICAL COMPOSITION**
[54] **COMPOSITION AGROCHIMIQUE LIQUIDE**
[72] FRANKLIN, RALPH, NL
[72] ZHANG, LEI, NL
[72] ZHU, SHAWN, NL
[71] NOURYON CHEMICALS INTERNATIONAL B.V., NL
[85] 2023-05-08
[86] 2021-11-23 (PCT/EP2021/082721)
[87] (WO2022/112269)
[30] US (63/118,766) 2020-11-27

[21] **3,201,296**
[13] A1

[51] **Int.Cl. C12M 1/12 (2006.01) C12M 1/00 (2006.01) C12M 1/04 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR HEAT AND MASS TRANSFER FOR A BIOPROCESSING SYSTEM**
[54] **SYSTEME ET PROCEDE DE TRANSFERT DE CHALEUR ET DE MASSE DANS UN SYSTEME DE BIOTRAITEMENT**
[72] FONTOVA SOSA, ANDREU, US
[72] TIMMINS, MARK, US
[71] GLOBAL LIFE SCIENCES SOLUTIONS USA LLC, US
[85] 2023-05-08
[86] 2021-12-14 (PCT/US2021/063285)
[87] (WO2022/132751)
[30] US (63/125,870) 2020-12-15

[21] **3,201,298**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 31/4725 (2006.01) A61K 47/32 (2006.01) A61P 25/02 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01)**
[25] EN
[54] **AMORPHOUS SOLID DISPERSIONS**
[54] **DISPERSIONS SOLIDES AMORPHES**
[72] LAREDJ, FAIZA, BE
[72] CHIRICO, ROSANNA, BE
[72] OUSSET, AYMERIC, BE
[71] UCB BIOPHARMA SRL, BE
[85] 2023-05-09
[86] 2021-12-16 (PCT/EP2021/086061)
[87] (WO2022/129267)
[30] EP (20215253.4) 2020-12-18

[21] **3,201,299**
[13] A1

[51] **Int.Cl. B05B 11/00 (2023.01)**
[25] EN
[54] **RECYCLABLE PUMP DISPENSER**
[54] **DISTRIBUTEUR A POMPE RECYCLABLE**
[72] BARTOLUCCI, STEFANO, SG
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2023-05-08
[86] 2021-12-14 (PCT/US2021/063200)
[87] (WO2022/132693)
[30] US (63/125,699) 2020-12-15

[21] **3,201,300**
[13] A1

[51] **Int.Cl. A01G 9/24 (2006.01)**
[25] EN
[54] **A GREENHOUSE**
[54] **SERRE**
[72] STEENTJES, MARTINUS ADRIANUS WILHELMUS, NL
[72] KICKERT, VINCENT MARTIJN, NL
[71] VAN DER HOEVEN HORTICULTURAL PROJECTS B.V., NL
[85] 2023-05-09
[86] 2021-11-30 (PCT/EP2021/083481)
[87] (WO2022/117533)
[30] NL (2027017) 2020-12-01

PCT Applications Entering the National Phase

[21] **3,201,303**
[13] A1

[51] **Int.Cl. F16D 66/02 (2006.01) G01B 7/06 (2006.01)**
[25] EN
[54] **WEAR SENSOR AND METHOD OF SENSING WEAR**
[54] **CAPTEUR D'USURE ET PROCEDE DE DETECTION D'USURE**
[72] GAYLARD, NIGEL, AU
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2023-05-09
[86] 2021-11-23 (PCT/EP2021/082704)
[87] (WO2022/106727)

[21] **3,201,304**
[13] A1

[51] **Int.Cl. A22B 5/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR REMOVING LEAF LARD FROM SLAUGHTERED ANIMALS**
[54] **DISPOSITIF ET PROCEDE D'ELIMINATION DU SAINDOUX DE PANNE D'ANIMAUX ABATTUS**
[72] KOSTER, NIELS ANTONIO WILLIAM, NL
[72] TIGGELOVEN, LEONARDUS JOZEPHUS ANTONIUS, NL
[71] MAREL RED MEAT B.V., NL
[85] 2023-05-09
[86] 2021-11-16 (PCT/EP2021/081767)
[87] (WO2022/106383)
[30] EP (20208088.3) 2020-11-17

[21] **3,201,306**
[13] A1

[51] **Int.Cl. B65H 29/40 (2006.01) B65H 31/02 (2006.01) B65H 31/30 (2006.01)**
[25] EN
[54] **A BANKNOTE STACK TRANSPORT ARRANGEMENT AND A CASH HANDLING MACHINE**
[54] **AGENCEMENT DE TRANSPORT D'EMPILEMENT DE BILLETS DE BANQUE ET MACHINE DE MANIPULATION D'ESPECES**
[72] WALLMAN-CARLSSON, VICTOR, SE
[72] JONSSON, MANFRED, SE
[71] SCAN COIN AB, SE
[85] 2023-05-09
[86] 2021-11-11 (PCT/EP2021/081368)
[87] (WO2022/101335)
[30] EP (20207124.7) 2020-11-12

[21] **3,201,309**
[13] A1

[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/44 (2006.01) A61Q 5/00 (2006.01) A61Q 5/12 (2006.01)**
[25] EN
[54] **AQUEOUS HAIR CONDITIONER COMPOSITIONS CONTAINING SOLUBILIZED ANTI-DANDRUFF ACTIVES**
[54] **COMPOSITIONS AQUEUSES DE CONDITIONNEUR CAPILLAIRE CONTENANT DES AGENTS ACTIFS ANTIPELLICULAIRES SOLUBILISES**
[72] ZHAO, JEAN JIANQUN, US
[72] NELMARK, HANNAH MARIE, US
[72] IWATA, TOSHIYUKI, SG
[72] SALLOUM, DAVID SALLOUM, US
[72] FOCHT, HEATHER LYNN, US
[72] JOHNSON, ERIC SCOTT, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2023-05-08
[86] 2021-11-30 (PCT/US2021/061051)
[87] (WO2022/119783)
[30] US (63/119,713) 2020-12-01

[21] **3,201,310**
[13] A1

[51] **Int.Cl. B01D 39/16 (2006.01)**
[25] EN
[54] **FILTER MEDIUM COMPRISING A NONWOVEN ELECTRET**
[54] **MILIEU FILTRANT COMPRENANT UN ELECTRET NON TISSE**
[72] GEISBERGER, GEORG, DE
[72] HANFSTINGL, CHRISTIAN, DE
[71] NEENAH GESSNER GMBH, DE
[85] 2023-05-09
[86] 2021-11-09 (PCT/EP2021/081114)
[87] (WO2022/101203)
[30] EP (PCT/EP2020/081644) 2020-11-10

[21] **3,201,311**
[13] A1

[51] **Int.Cl. A61K 31/575 (2006.01) C07J 9/00 (2006.01) C12N 9/00 (2006.01) C12P 33/06 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **ENZYMATIC METHODS FOR CONVERTING LCA AND 3-KCA TO UDCA AND 3-KUDCA**
[54] **PROCEDES ENZYMATIQUES POUR LA CONVERSION DE LCA ET 3-KCA EN UDCA ET 3-KUDCA**
[72] REID, J. GREGORY, US
[72] REDDY, JAYACHANDRA P., US
[72] PAUL, BERNHARD J., US
[72] SCHELL, URSULA, US
[72] GREGORY, MATT, GB
[71] SANDHILL ONE, LLC, US
[85] 2023-05-08
[86] 2021-11-29 (PCT/US2021/061025)
[87] (WO2022/115710)
[30] US (63/119,188) 2020-11-30

[21] **3,201,313**
[13] A1

[51] **Int.Cl. A61M 27/00 (2006.01) A61B 90/00 (2016.01) A61F 13/00 (2006.01) A61M 1/00 (2006.01) A61M 3/02 (2006.01)**
[25] EN
[54] **WOUND THERAPY SYSTEMS**
[54] **SYSTEMES DE THERAPIE DE PLAIES**
[72] SHULER, MICHAEL SIMMS, US
[71] J&M SHULER MEDICAL INC., US
[85] 2023-05-08
[86] 2021-11-29 (PCT/US2021/060985)
[87] (WO2022/115689)
[30] US (63/118,825) 2020-11-27

Demandes PCT entrant en phase nationale

[21] **3,201,314**
[13] A1

[51] **Int.Cl. B21D 5/12 (2006.01) B21C 37/08 (2006.01) B21D 5/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRE-SHAPING SHEET METAL, AND COMPUTER PROGRAM AND DEVICE FOR CARRYING OUT THE METHOD**

[54] **PROCEDE POUR FACONNAGE PREALABLE DE TOLE, ET PROGRAMME INFORMATIQUE ET DISPOSITIF POUR LA MISE EN ŒUVRE DU PROCEDE**

[72] THOME, MARIO, DE
[72] ZELLER, SUSANNE, DE
[71] SMS GROUP GMBH, DE
[85] 2023-05-09
[86] 2021-11-08 (PCT/EP2021/080966)
[87] (WO2022/117286)
[30] DE (10 2020 215 091.5) 2020-12-01

[21] **3,201,315**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/115 (2010.01) A61P 7/02 (2006.01) A61P 7/06 (2006.01) A61P 9/10 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF BLEEDING DISORDERS**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE TROUBLES HEMOSTATIQUES**

[72] GILBERT, JAMES C., US
[72] ZHU, SHUHAO, US
[71] BAND THERAPEUTICS, LLC, US
[85] 2023-05-08
[86] 2021-11-24 (PCT/US2021/060678)
[87] (WO2022/115502)
[30] US (63/117,545) 2020-11-24
[30] US (63/155,012) 2021-03-01
[30] US (63/216,601) 2021-06-30

[21] **3,201,317**
[13] A1

[51] **Int.Cl. C10B 37/00 (2006.01) C10B 41/00 (2006.01) C10B 47/28 (2006.01)**

[25] EN

[54] **BIOMASS PYROLYSIS INTEGRATED WITH BIO-REDUCTION OF METAL ORES, HYDROGEN PRODUCTION, AND/OR ACTIVATED-CARBON PRODUCTION**

[54] **PYROLYSE DE BIOMASSE INTEGREE A LA BIO-REDUCTION DE MINERAIS METALLIQUES, PRODUCTION D'HYDROGENE ET/OU PRODUCTION DE CHARBON ACTIF**

[72] MENNELL, JAMES A., US
[72] DAUGAARD, DAREN, US
[72] SLACK, DUSTIN, US
[71] CARBON TECHNOLOGY HOLDINGS, LLC, US
[85] 2023-05-08
[86] 2021-11-19 (PCT/US2021/060057)
[87] (WO2022/109248)
[30] US (63/116,403) 2020-11-20
[30] US (63/130,460) 2020-12-24

[21] **3,201,321**
[13] A1

[51] **Int.Cl. B64C 1/22 (2006.01) B64D 1/22 (2006.01) B66D 1/38 (2006.01)**

[25] EN

[54] **DEVICE FOR ALIGNING A PIECE GOOD PART RECEIVED BY MEANS OF A CABLE WINCH OF AN AIRCRAFT**

[54] **DISPOSITIF SERVANT A ALIGNER UNE PARTIE FORMANT ARTICLE ISOLE SOULEVEE AU MOYEN D'UN TREUIL D'UN AERONEF**

[72] HESSELBARTH, JONATHAN, DE
[71] WINGCOPTER GMBH, DE
[85] 2023-05-09
[86] 2021-10-25 (PCT/EP2021/079499)
[87] (WO2022/084553)
[30] DE (10 2020 127 986.8) 2020-10-23

[21] **3,201,325**
[13] A1

[51] **Int.Cl. B01D 63/08 (2006.01) H01M 8/04119 (2016.01) F24F 6/00 (2006.01)**

[25] EN

[54] **MEMBRANE CONTACTOR FOR TRANSFERRING WATER VAPOR BETWEEN TWO GAS FLOWS**

[54] **CONTACTEUR A MEMBRANE DESTINE AU TRANSFERT DE VAPEUR D'EAU ENTRE DEUX FLUX GAZEUX**

[72] BEESKOW, THOMAS, DE
[72] OHLROGGE, KLAUS, DE
[72] PEINEMANN, KLAUS-VIKTOR, DE
[72] WALDEMANN, RUDOLF, DE
[71] GMT MEMBRANTECHNIK GMBH, DE
[85] 2023-05-09
[86] 2021-10-22 (PCT/EP2021/079314)
[87] (WO2022/096287)
[30] DE (10 2020 129 403.4) 2020-11-09

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| [51] Int.Cl. A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) | [51] Int.Cl. A61K 31/437 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07D 471/04 (2006.01) | [51] Int.Cl. G07F 11/04 (2006.01) B65D 83/00 (2006.01) G07F 11/02 (2006.01) G07F 11/10 (2006.01) G07F 11/16 (2006.01) G07F 17/00 (2006.01) |
| [25] EN | [25] EN | [25] EN |
| [54] METHODS OF USING 4-AMINO-N-[4-(METHOXYMETHYL)PHENYL]-7-(1-METHYLCYCLOPROPYL)-6-(3-MORPHOLINOPROP-1-YN-1-YL)-7H-PYRROLO[2,3-D]PYRIMIDINE-5-CARBOXAMIDE FOR THE TREATMENT OF TUMORS | [54] N-[2-({4-[3-(ANILINO)-4-OXO-4,5,6,7-TETRAHYDRO-1H-PYRROLO[3,2-C]PYRIDIN-2-YL]PYRIDIN-3-YL)OXY)ETHYL]PROP-2-ENAMIDE DERIVATIVES AND SIMILAR COMPOUNDS AS EGFR INHIBITORS FOR THE TREATMENT OF CANCER | [54] VENDING MACHINE AND OPENING SYSTEMS AND METHODS |
| [54] METHODES D'UTILISATION DU 4-AMINO-N-[4-(METHOXYMETHYL)PHENYL]-7-(1-METHYLCYCLOPROPYL)-6-(3-MORPHOLINOPROP-1-YN-1-YL)-7H-PYRROLO[2,3-D]PYRIMIDINE-5-CARBOXAMIDE POUR LE TRAITEMENT D E TUMEURS | [54] DERIVES DE N-[2-({4-[3-(ANILINO)-4-OXO-4,5,6,7-TETRAHYDRO-1H-PYRROLO[3,2-C]PYRIDIN-2-YL]PYRIDIN-3-YL)OXY)ETHYL]PROP-2-ENAMIDE ET COMPOSES SIMILAIRES UTILISES EN TANT QU'INHIBITEUR S D'EGFR POUR LE TRAITEMENT DU CANCER | [54] DISTRIBUTEUR AUTOMATIQUE ET SYSTEMES ET PROCEDES D'OUVERTURE |
| [72] LOVATI, EMANUELA, CH | [72] SIEGEL, STEPHAN, DE | [72] MAYHEW, PETER, US |
| [72] GIORGINO, RUBEN, CH | [72] SIEGEL, FRANZISKA, US | [72] CHESSLER, DAVID, US |
| [72] DORIA, SIMONA, IT | [72] SCHULZE, VOLKER, DE | [71] 24/7 PIZZA BOX, LLC, US |
| [72] GIULIANO, CLAUDIO, IT | [72] BERGER, MARKUS, DE | [85] 2023-05-08 |
| [72] BONIFACIO, ANNALISA, CH | [72] GRAHAM, KEITH, DE | [86] 2021-11-09 (PCT/US2021/058530) |
| [72] IGARASHI, MIHARU, JP | [72] KLAR, ULRICH, DE | [87] (WO2022/099167) |
| [72] MIYAZAKI, ISAO, JP | [72] MORTIER, JEREMIE XAVIER G., DE | [30] US (63/111,239) 2020-11-09 |
| [72] KATO, MASANORI, JP | [72] SULZLE, DETLEV, DE | [30] US (17/522,002) 2021-11-09 |
| [72] BERNAREGGI, ALBERTO, CH | [72] BOMER, ULF, DE | |
| [71] HELSINN HEALTHCARE SA, CH | [72] KORR, DANIEL, DE | |
| [71] TAIHO PHARMACEUTICAL CO., LTD., JP | [72] SCHRODER, JENS, DE | |
| [85] 2023-05-08 | [72] MEYERSON, MATTHEW, US | |
| [86] 2021-11-18 (PCT/EP2021/082120) | [72] GREULICH, HEIDI, US | |
| [87] (WO2022/106529) | [72] KAPLAN, BETHANY, US | |
| [30] US (63/116,282) 2020-11-20 | [71] BAYER AKTIENGESELLSCHAFT, DE | |
| [30] US (63/229,626) 2021-08-05 | [71] BAYER PHARMA AKTIENGESELLSCHAFT, DE | |
| | [71] THE BROAD INSTITUTE, INC., US | |
| | [71] DANA-FARBER CANCER INSTITUTE, INC., US | |
| | [85] 2023-05-08 | |
| | [86] 2021-11-09 (PCT/EP2021/081081) | |
| | [87] (WO2022/101184) | |
| | [30] US (63/112,498) 2020-11-11 | |
| [21] 3,201,331 [13] A1 | | [21] 3,201,337 [13] A1 |
| [51] Int.Cl. A01G 7/04 (2006.01) C12N 13/00 (2006.01) | | [51] Int.Cl. F24F 11/47 (2018.01) H02J 3/00 (2006.01) H02J 3/14 (2006.01) H02J 3/28 (2006.01) H02J 3/38 (2006.01) H02J 13/00 (2006.01) |
| [25] EN | | [25] EN |
| [54] DEVICE AND METHOD FOR DIRECTING PLANT DEVELOPMENT | | [54] METHOD FOR CONTROLLING DECENTRALIZED LOADS IN AN ENERGY NETWORK SYSTEM |
| [54] DISPOSITIF ET PROCEDE POUR DIRIGER LE DEVELOPPEMENT DE PLANTES | | [54] PROCEDE DE REGULATION DE CHARGES DECENTRALISEES DANS UN SYSTEME ENERGETIQUE |
| [72] VAN DER ENDE, MARCUS, NL | | [72] WERNER, MARKUS, DE |
| [71] PARXTRA HOLDING B.V., NL | | [72] BLUM, JONAS, DE |
| [85] 2023-05-08 | | [72] HARDT, STEFAN, DE |
| [86] 2021-11-09 (PCT/EP2021/081143) | | [71] METEOVIVA GMBH, DE |
| [87] (WO2022/101219) | | [85] 2023-05-08 |
| [30] EP (20207388.8) 2020-11-13 | | [86] 2021-11-08 (PCT/EP2021/080962) |
| | | [87] (WO2022/096719) |
| | | [30] EP (20206510.8) 2020-11-09 |

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[21] **3,201,339**
[13] A1

[51] **Int.Cl. B01F 27/808 (2022.01) G06F 30/28 (2020.01) G06F 30/30 (2020.01) B01F 35/22 (2022.01) B01F 35/71 (2022.01) G06N 3/08 (2023.01)**

[25] EN

[54] **COMPUTER SURROGATE MODEL TO PREDICT THE SINGLE-PHASE MIXING QUALITY IN STEADY STATE MIXING TANKS**

[54] **MODELE DE SUBSTITUTION INFORMATIQUE POUR PREDIRE LA QUALITE DE MELANGE A PHASE UNIQUE DANS DES RESERVOIRS DE MELANGE A L'ETAT STABLE**

[72] HOSEINABADI, EMAD GHADIRIAN, US

[72] JOHNSON, WILLIAM LEIGH, US

[71] AMGEN INC., US

[85] 2023-05-08

[86] 2021-09-29 (PCT/US2021/052501)

[87] (WO2022/115150)

[30] US (63/117,789) 2020-11-24

[21] **3,201,340**
[13] A1

[51] **Int.Cl. C09K 8/508 (2006.01) C09K 8/594 (2006.01) E21B 43/16 (2006.01)**

[25] EN

[54] **METHODS OF CONTROLLING WATER PRODUCTION FROM HYDROCARBON BEARING SUBTERRANEAN FORMATIONS USING DENSE CARBON DIOXIDE COMPOSITIONS**

[54] **PROCEDES DE REGULATION DE LA PRODUCTION D'EAU A PARTIR DE FORMATIONS SOUTERRAINES CONTENANT DES HYDROCARBURES A L'AIDE DE COMPOSITIONS DE DIOXYDE DE CARBONE DENSES**

[72] ALYOUSIF, ZUHAIR, SA

[72] ALMAJID, MUHAMMAD MAJID, SA

[71] SAUDI ARABIAN OIL COMPANY, SA

[85] 2023-05-08

[86] 2021-11-03 (PCT/US2021/057871)

[87] (WO2022/103631)

[30] US (17/097,553) 2020-11-13

[21] **3,201,385**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**

[25] EN

[54] **OLFACTORY TESTING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE TEST OLFACTIF**

[72] NWULIA, EVARISTUS A., US

[71] EVON MEDICS, LLC, US

[85] 2023-02-27

[86] 2021-08-25 (PCT/US2021/047492)

[87] (WO2022/046864)

[30] US (63/070,672) 2020-08-26

[21] **3,201,410**
[13] A1

[51] **Int.Cl. B66B 21/02 (2006.01) B66B 21/12 (2006.01) B66B 25/00 (2006.01)**

[25] EN

[54] **CONTROL DEVICE FOR A PASSENGER TRANSPORT SYSTEM**

[54] **DISPOSITIF DE COMMANDE POUR UN SYSTEME DE TRANSPORT DE PASSAGERS**

[72] PRENNER, ALEXANDER, AT

[71] INVENTIO AG, CH

[85] 2023-05-08

[86] 2021-11-03 (PCT/EP2021/080470)

[87] (WO2022/101066)

[30] EP (20207875.4) 2020-11-16

[21] **3,201,411**
[13] A1

[51] **Int.Cl. C23C 10/20 (2006.01) C09D 1/00 (2006.01) C23C 10/30 (2006.01) C23C 10/32 (2006.01) C23C 10/60 (2006.01)**

[25] EN

[54] **CHROMIUM(VI)-FREE SLIP FOR DIFFUSION COATING**

[54] **BARBOTINE EXEMPT DE CHROME(VI) POUR REVETEMENT PAR DIFFUSION**

[72] RUHL, ALEXANDER, DE

[72] MORANT, MAX, DE

[71] M-M-MORANT-GMBH, DE

[85] 2023-05-08

[86] 2021-11-04 (PCT/EP2021/080581)

[87] (WO2022/135777)

[30] DE (10 2020 134 671.9) 2020-12-22

[21] **3,201,412**
[13] A1

[51] **Int.Cl. C23C 22/16 (2006.01) C04B 28/34 (2006.01) C09D 5/08 (2006.01) C09D 5/10 (2006.01) C23C 22/74 (2006.01)**

[25] EN

[54] **CHROMIUM(VI)-FREE COATING AGENT FOR METALS**

[54] **AGENT DE REVETEMENT EXEMPT DE CHROME (VI) POUR METAUX**

[72] RUHL, ALEXANDER, DE

[72] MORANT, MAX, DE

[71] M-M-MORANT-GMBH, DE

[85] 2023-05-08

[86] 2021-11-04 (PCT/EP2021/080585)

[87] (WO2022/135778)

[30] DE (10 2020 134 670.0) 2020-12-22

[21] **3,201,413**
[13] A1

[51] **Int.Cl. A01K 73/02 (2006.01) A01K 73/10 (2006.01)**

[25] EN

[54] **GATE MECHANISM FOR A TRAWL NET**

[54] **MECANISME DE PORTE DE CHALUT**

[72] FERNANDES, PAUL G., GB

[72] CHACKO, VIVEK, GB

[72] NEILSON, RICHARD DAVID, GB

[72] NASSAR, AHMED ELSAYED, GB

[71] FISHERIES INNOVATION & SUSTAINABILITY, GB

[85] 2023-05-08

[86] 2021-11-09 (PCT/GB2021/052897)

[87] (WO2022/096903)

[30] GB (2017670.7) 2020-11-09

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[21] **3,201,414**
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01) C07K 7/08 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **BICYCLIC PEPTIDE LIGANDS SPECIFIC FOR TRANSFERRIN RECEPTOR 1 (TFR1)**

[54] **LIGANDS PEPTIDIQUES BICYCLIQUES SPECIFIQUES POUR LE RECEPTEUR 1 DE LA TRANSFERRINE (TFR1)**

[72] GOWANS, ELLEN, GB

[72] MUDD, GEMMA, GB

[72] RIGBY, MICHAEL, GB

[72] SETH, PUNIT, GB

[72] SKYNNER, MICHAEL, GB

[72] STANWAY, STEVEN, GB

[72] URBONAS, LIUDVIKAS, GB

[72] VAN RIETSCHOTEN, KATERINE, GB

[71] BICYCLETX LIMITED, GB

[85] 2023-05-08

[86] 2021-11-12 (PCT/GB2021/052927)

[87] (WO2022/101633)

[30] GB (2017927.1) 2020-11-13

[30] GB (2106903.4) 2021-05-14

[30] US (63/261,820) 2021-09-29

[21] **3,201,415**
[13] A1

[51] **Int.Cl. C08G 61/02 (2006.01) C08G 61/12 (2006.01)**

[25] EN

[54] **QUINONE-CONTAINING POLY(ARYLENE), METHODS FOR THE MANUFACTURE THEREOF, AND USE FOR ELECTROCHEMICAL GAS SEPARATION**

[54] **POLY(ARYLENE) CONTENANT DE LA QUINONE, SES PROCEDES DE FABRICATION ET UTILISATION POUR LA SEPARATION DE GAZ ELECTROCHIMIQUE**

[72] ROGERS, CAMERON, US

[72] VOSKIAN, SAHAG, US

[71] VERDOX, INC., US

[85] 2023-05-09

[86] 2021-09-09 (PCT/US2021/049643)

[87] (WO2022/103474)

[30] US (63/111,752) 2020-11-10

[21] **3,201,416**
[13] A1

[51] **Int.Cl. B01D 53/34 (2006.01) B82Y 30/00 (2011.01) B82Y 40/00 (2011.01) C01B 32/15 (2017.01) C01B 32/158 (2017.01) B01D 53/50 (2006.01) B01D 53/56 (2006.01) B01D 53/62 (2006.01)**

[25] EN

[54] **COMPOSITE FOR ELECTROCHEMICAL GAS SEPARATION**

[54] **COMPOSITE POUR SEPARATION DE GAZ ELECTROCHIMIQUE**

[72] THOMAS-ALYEA, KAREN, US

[72] VOSKIAN, SAHAG, US

[72] ROGERS, CAMERON, US

[72] REATH, ALEXANDER, US

[71] VERDOX, INC., US

[85] 2023-05-09

[86] 2021-09-10 (PCT/US2021/049751)

[87] (WO2022/103477)

[30] US (63/111,761) 2020-11-10

[21] **3,201,417**
[13] A1

[51] **Int.Cl. A23L 35/00 (2016.01) B65D 81/32 (2006.01) G06Q 99/00 (2006.01)**

[25] EN

[54] **PACKAGED FOOD PRODUCT AND METHOD OF PRODUCING THE PACKAGED FOOD PRODUCT**

[54] **PRODUIT ALIMENTAIRE EMBALLE ET PROCEDE DE PRODUCTION DU PRODUIT ALIMENTAIRE EMBALLE**

[72] BUDD, DANIEL CHRISTOPHER, CA

[72] IVERSEN, JACQUELINE, US

[72] TOLLEFSEN, TROND ERIK, GB

[71] BLUE BUFFALO ENTERPRISES, INC., US

[85] 2023-05-09

[86] 2021-10-19 (PCT/US2021/055579)

[87] (WO2022/146534)

[30] US (17/136,152) 2020-12-29

[21] **3,201,418**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61K 49/00 (2006.01) C07D 211/60 (2006.01) C07D 401/12 (2006.01)**

[25] EN

[54] **BIFUNCTIONAL COMPOUNDS AND METHODS OF USING THE SAME**

[54] **COMPOSES BIFONCTIONNELS ET LEURS PROCEDES D'UTILISATION**

[72] KURNICK, JAMES T., US

[72] DUNN, IAN SEYMOUR, US

[72] LAWLER, MATTHEW M., US

[71] THE GENERAL HOSPITAL CORPORATION, US

[85] 2023-05-09

[86] 2021-11-05 (PCT/US2021/058299)

[87] (WO2022/099043)

[30] US (63/111,269) 2020-11-09

[21] **3,201,419**
[13] A1

[51] **Int.Cl. C07K 16/40 (2006.01) A61P 35/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **ANTIBODY VARIANTS AGAINST WNT RECEPTOR RYK**

[54] **VARIANTS D'ANTICORPS DIRIGES CONTRE LE RECEPTEUR DE WNT RYK**

[72] HAUSER, DAVID N., US

[72] KAMPERT, TAYLOR L., US

[72] SUN, MIAO, US

[71] VERSAPEUTICS INC., US

[85] 2023-05-09

[86] 2021-11-08 (PCT/US2021/058491)

[87] (WO2022/103705)

[30] US (63/112,616) 2020-11-11

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[21] **3,201,421**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/86 (2006.01) C12N 15/861 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR RESTRICTING BIODISTRIBUTION OF AAV**

[54] **METHODES ET COMPOSITIONS DE LIMITATION DE BIODISTRIBUTION DE VAA**

[72] CALCEDO DEL HOYO, ROBERTO, US

[72] VANDENBERGHE, LUC H., US

[71] AFFINIA THERAPEUTICS INC., US

[71] MASSACHUSETTS EYE AND EAR INFIRMARY, US

[71] THE SCHEPENS EYE RESEARCH INSTITUTE, INC., US

[85] 2023-05-09

[86] 2021-11-09 (PCT/US2021/058572)

[87] (WO2022/099179)

[30] US (63/111,496) 2020-11-09

[30] US (63/256,437) 2021-10-15

[21] **3,201,422**
[13] A1

[51] **Int.Cl. G06F 3/16 (2006.01) H04R 3/12 (2006.01) H04R 27/04 (2006.01)**

[25] EN

[54] **TRANSMITTING MESSAGES TO A DISPLAY DEVICE BASED ON DETECTED AUDIO OUTPUT**

[54] **TRANSMISSION DE MESSAGES A UN DISPOSITIF D'AFFICHAGE SUR LA BASE D'UNE SORTIE AUDIO DETECTEE**

[72] DALY, DANIEL MARTIN, US

[71] ROKU, INC., US

[85] 2023-05-08

[86] 2021-11-05 (PCT/US2021/058171)

[87] (WO2022/103658)

[30] US (63/113,628) 2020-11-13

[30] US (17/146,080) 2021-01-11

[21] **3,201,423**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **CD25 ANTIBODIES**

[54] **ANTICORPS ANTI-CD25**

[72] BALIGA, RAMESH, US

[72] GIP, PHUNG, TU, US

[72] DAINO-LAIZURE, HANAKO, US

[72] ZALICKI, PIOTR J., US

[72] PRESTA, LEONARD GEORGE, US

[72] GURINOVICH, OLEG, US

[71] IBIO, INC., US

[85] 2023-05-09

[86] 2021-11-12 (PCT/US2021/059068)

[87] (WO2022/104009)

[30] US (63/113,784) 2020-11-13

[30] US (17/524,852) 2021-11-12

[21] **3,201,424**
[13] A1

[51] **Int.Cl. A23C 11/10 (2021.01) A23L 11/50 (2021.01) A23C 20/02 (2021.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**

[25] EN

[54] **NON-DAIRY PROTEIN BASED EDIBLE PRODUCT AND, PROCESS FOR MANUFACTURING THE SAME**

[54] **PRODUIT COMESTIBLE A BASE DE PROTEINES NON LAITIERES ET SON PROCEDE DE FABRICATION**

[72] IMMONEN, MIKA, FI

[72] MUURONEN, KLAUS, FI

[71] ODDLYGOOD GLOBAL OY, FI

[85] 2023-05-09

[86] 2021-11-26 (PCT/FI2021/050816)

[87] (WO2022/117918)

[30] FI (20206231) 2020-12-01

[21] **3,201,425**
[13] A1

[51] **Int.Cl. C09K 8/035 (2006.01) E21B 21/00 (2006.01)**

[25] EN

[54] **TERNARY DEEP EUTECTIC SOLVENTS AS DRILLING FLUIDS**

[54] **SOLVANTS EUTECTIQUES PROFONDS TERNAIRES UTILISES COMME FLUIDES DE FORAGE**

[72] MIRZAEI, AMIR A., CA

[72] RAD, HIRBOD, CA

[71] UNIQUEM INC., CA

[85] 2023-05-10

[86] 2020-11-12 (PCT/CA2020/051535)

[87] (WO2022/099400)

[21] **3,201,426**
[13] A1

[51] **Int.Cl. B65D 30/10 (2006.01) B65D 33/00 (2006.01) B65D 83/08 (2006.01)**

[25] EN

[54] **BAG CONFIGURATION FOR PAIL**

[54] **CONFIGURATION DE SAC POUR SEAU**

[72] MORAND, MICHEL, CA

[72] PINSONNAULT, MAURICE, CA

[71] ANGELCARE CANADA INC., CA

[85] 2023-05-10

[86] 2021-11-12 (PCT/CA2021/051609)

[87] (WO2022/099417)

[30] US (63/112,976) 2020-11-12

[21] **3,201,428**
[13] A1

[51] **Int.Cl. A22B 5/00 (2006.01) A22B 5/20 (2006.01)**

[25] EN

[54] **TAIL CUTTER FOR SAVING AND PARTLY CUTTING FREE TAILS OF SLAUGHTERED ANIMALS**

[54] **DECOUPE-QUEUE POUR RECUPERER ET DETACHER PARTIELLEMENT DES QUEUES LIBRES D'ANIMAUX ABATTUS**

[72] GOLDEWIJK, RICHARD ANTONIUS MARIA KLEIN, NL

[72] HUININK, MAARTEN CHRISTIAAN, NL

[71] MAREL RED MEAT B.V., NL

[85] 2023-05-10

[86] 2021-12-17 (PCT/EP2021/086369)

[87] (WO2022/129452)

[30] EP (20215267.4) 2020-12-18

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[21] **3,201,429**
[13] A1

[51] **Int.Cl. C09K 8/035 (2006.01) E21B 21/00 (2006.01)**
[25] EN
[54] **DEEP EUTECTIC SOLVENTS**
[54] **SOLVANTS EUTECTIQUES PROFONDS**
[72] MIRZAEI, AMIR A., CA
[72] RAD, HIRBOD, CA
[71] UNIQUEM INC., CA
[85] 2023-05-10
[86] 2020-11-12 (PCT/CA2020/051533)
[87] (WO2022/099399)

[21] **3,201,431**
[13] A1

[51] **Int.Cl. G06N 5/00 (2023.01) G06N 10/00 (2022.01) G06N 10/40 (2022.01)**
[25] EN
[54] **METHODS FOR ARRANGING ATOMS IN AN ARRAY OF OPTICAL TRAPS**
[54] **PROCEDES D'AGENCEMENT D'ATOMES DANS UN RESEAU DE PIEGES OPTIQUES**
[72] SCHYMIK, KAI-NIKLAS, DE
[72] LIENHARD, VINCENT, FR
[72] BARREDO, DANIEL, ES
[72] BROWAEYS, ANTOINE, FR
[72] LAHAYE, THIERRY, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSTITUT D'OPTIQUE THEORIQUE ET APPLIQUEE, FR
[85] 2023-05-10
[86] 2021-11-08 (PCT/EP2021/080980)
[87] (WO2022/101145)
[30] EP (20306357.3) 2020-11-10

[21] **3,201,432**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61K 39/12 (2006.01) C07K 14/705 (2006.01) C07K 16/08 (2006.01)**
[25] EN
[54] **METHODS FOR MODULATING HOST CELL SURFACE INTERACTIONS WITH HUMAN CYTOMEGALOVIRUS**
[54] **METHODES DE MODULATION D'INTERACTIONS DE SURFACE DE CELLULE HOTE AVEC UN CYTOMEGALOVIRUS HUMAIN**
[72] CIFERRI, CLAUDIO, US
[72] KSCHONSAK, MARC, US
[71] GENENTECH, INC., US
[85] 2023-05-09
[86] 2021-11-26 (PCT/US2021/060887)
[87] (WO2022/115652)
[30] US (63/118,859) 2020-11-27

[21] **3,201,433**
[13] A1

[51] **Int.Cl. G06Q 50/00 (2012.01)**
[25] EN
[54] **CURATED MATCHES AMONG INDIVIDUALS**
[54] **CORRESPONDANCES ORGANISEES ENTRE INDIVIDUS**
[72] BONDARENKO, ANTON, GB
[72] JALLALY, ZAKARIA, GB
[71] AMI HOLDINGS LIMITED, BM
[85] 2023-05-08
[86] 2021-11-12 (PCT/IB2021/060524)
[87] (WO2022/101855)
[30] US (63/113,794) 2020-11-13

[21] **3,201,434**
[13] A1

[51] **Int.Cl. A47D 9/00 (2006.01) A47D 13/02 (2006.01)**
[25] EN
[54] **FOLDABLE CARRY COT WITH CUSHION**
[54] **LIT DE TRANSPORT PLIANT DOTE D'UN COUSSIN**
[72] CHENG, CHIN-MING, CH
[72] LIU, KWANG-HAO, CH
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2023-05-10
[86] 2021-11-09 (PCT/EP2021/081007)
[87] (WO2022/101154)
[30] US (63/111,649) 2020-11-10

[21] **3,201,435**
[13] A1

[51] **Int.Cl. C01B 25/45 (2006.01) C01B 32/05 (2017.01)**
[25] EN
[54] **POLYESTER POLYMER NANOCOMPOSITES**
[54] **NANOCOMPOSITES DE POLYESTER**
[72] MCCALL, WILLIAM, US
[71] KINTRA FIBERS, INC., US
[85] 2023-05-10
[86] 2021-12-23 (PCT/US2021/065081)
[87] (WO2022/140672)
[30] US (63/130,020) 2020-12-23

[21] **3,201,436**
[13] A1

[51] **Int.Cl. E21D 9/00 (2006.01) G06T 7/70 (2017.01) H04N 13/204 (2018.01) G05D 1/00 (2006.01) G06T 7/20 (2017.01)**
[25] EN
[54] **SYSTEM AND PROCESS FOR THE ROBOTIC LOADING OF EXPLOSIVES IN UNDERGROUND MINING**
[54] **SYSTEME ET PROCEDE POUR LE CHARGEMENT ROBOTIQUE D'EXPLOSIFS DANS L'EXPLOITATION MINIERE SOUTERRAINE**
[72] RUIZ HERNANDEZ, MARCO ANTONIO, CL
[72] MIRANDA LORCA, RODRIGO, CL
[72] BARRIGA MELGAREJO, JONHATAN, CL
[72] LARA MARRO, GLORIA DEL PILAR, CL
[72] MORALES GARRIDO, DANKO CHRISTIAN, CL
[72] PRADO FIGUEROA, FELIPE ANDRES, CL
[71] ENAEX SERVICIOS S.A., CL
[85] 2023-05-10
[86] 2020-11-13 (PCT/CL2020/050153)
[87] (WO2022/099428)

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[13] A1

[51] **Int.Cl. H01L 31/049 (2014.01)**
[25] EN
[54] **COATING OF SOLAR PANEL BACKSIDE**
[54] **REVETEMENT DE FACE ARRIERE DE PANNEAU SOLAIRE**
[72] MUKAI, BARBARA, DE
[72] STEINBACH, MICHAEL, DE
[72] MITTERBAUER, JOSEF, DE
[71] HENKEL AG & CO. KGAA, DE
[85] 2023-05-10
[86] 2021-11-10 (PCT/EP2021/081234)
[87] (WO2022/101261)
[30] EP (20207599.0) 2020-11-13

[21] **3,201,438**
[13] A1

[51] **Int.Cl. A01J 7/02 (2006.01)**
[25] EN
[54] **AUTOMATIC MILK VALVE**
[54] **SOUPAPE A LAIT AUTOMATIQUE**
[72] MOSTERT, GERARD, NL
[72] KRAAIJ, DIRK, NL
[72] DE KORT, DIMITRI BJORN, NL
[71] LELY PATENT N.V., NL
[85] 2023-05-08
[86] 2021-11-25 (PCT/IB2021/060955)
[87] (WO2022/112981)
[30] NL (2026979) 2020-11-25

[21] **3,201,439**
[13] A1

[51] **Int.Cl. A61K 38/40 (2006.01) A23J 3/08 (2006.01) A61K 9/14 (2006.01) A61K 31/13 (2006.01) A61K 35/20 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **DIPHENHYDRAMINE AND LACTOFERRIN FOR PREVENTION AND TREATMENT OF COVID-19**
[54] **DIPHENHYDRAMINE ET LACTOFERRINE POUR LA PREVENTION ET LE TRAITEMENT DE LA COVID-19**
[72] OSTROV, DAVID A., US
[72] NORRIS, MICHAEL, US
[71] UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, US
[85] 2023-05-09
[86] 2021-12-15 (PCT/US2021/072932)
[87] (WO2022/133455)
[30] US (63/126,082) 2020-12-16

[21] **3,201,440**
[13] A1

[51] **Int.Cl. C07C 37/72 (2006.01) C07C 39/23 (2006.01)**
[25] EN
[54] **EXTRACTION AND PURIFICATION OF CANNABINOIDS**
[54] **EXTRACTION ET PURIFICATION DE CANNABINOIDES**
[72] WHITE, ZACHARY, US
[71] M-FOR, LLC, US
[85] 2023-05-10
[86] 2021-12-17 (PCT/US2021/064171)
[87] (WO2022/140197)
[30] US (63/130,012) 2020-12-23

[21] **3,201,442**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/4439 (2006.01) A61K 31/47 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01) A61P 31/20 (2006.01) A61P 31/22 (2006.01)**
[25] EN
[54] **PYRAZOLO DERIVATIVES AS HUMAN DIHYDROOROTATE DEHYDROGENASE (HDHODH) INHIBITORS FOR USE AS ANTIVIRALS**
[54] **DERIVES DE PYRAZOLO EN TANT QU'INHIBITEURS DE LA DIHYDROOROTATE DESHYDROGENASE HUMAINE (HDHODH), DESTINES A ETRE UTILISES EN TANT QU'ANTIVIRAUX**
[72] BOSCHI, DONATELLA, IT
[72] GIORGIS, MARTA, IT
[72] LOLLI, MARCO LUCIO, IT
[72] MARTINELLI, GIOVANNI, IT
[72] SAGLIO, GIUSEPPE, IT
[71] DRUG DISCOVERY AND CLINIC S.R.L., IT
[85] 2023-05-10
[86] 2021-11-12 (PCT/EP2021/081467)
[87] (WO2022/101382)
[30] IT (102020000027251) 2020-11-13

[21] **3,201,443**
[13] A1

[51] **Int.Cl. C07D 215/04 (2006.01) A61K 31/47 (2006.01) A61K 31/4709 (2006.01) A61K 31/496 (2006.01) A61K 31/5377 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) A61P 43/00 (2006.01) C07D 215/12 (2006.01) C07D 215/14 (2006.01) C07D 215/18 (2006.01) C07D 215/20 (2006.01) C07D 215/227 (2006.01) C07D 215/38 (2006.01) C07D 215/48 (2006.01) C07D 401/04 (2006.01) C07D 401/06 (2006.01) C07D 405/04 (2006.01) C07D 413/04 (2006.01) C07D 417/04 (2006.01)**
[25] EN
[54] **TETRAHYDROQUINOLINE DERIVATIVE AND MEDICINAL USE THEREOF**
[54] **DERIVE DE TETRAHYDROQUINOLINE ET SON UTILISATION MEDICALE**
[72] ASABA, KEN NUNETTSU, JP
[72] TAKAHASHI, TAKEHIRO, JP
[72] YAMAMOTO, MASASHI, JP
[72] TAKAGAKI, KOZUE, JP
[72] NOGAMI, MARINA, JP
[72] TSUJI, RIICHIRO, JP
[72] MEGURO, HIROYUKI, JP
[72] UKEGAWA, NAOYA, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2023-05-08
[86] 2021-12-24 (PCT/JP2021/048081)
[87] (WO2022/138888)
[30] JP (2020-215976) 2020-12-25

[21] **3,201,445**
[13] A1

[51] **Int.Cl. A61L 31/04 (2006.01) A61L 31/14 (2006.01) C08L 89/06 (2006.01)**
[25] EN
[54] **MULTI-LAYER COLLAGEN-BASED MEMBRANE**
[54] **MEMBRANE MULTICOUCHE A BASE DE COLLAGENE**
[72] BARTEE, BARRY, US
[72] CAIN, EVAN, US
[71] OSTEOGENICS BIOMEDICAL, INC., US
[85] 2023-05-10
[86] 2021-12-09 (PCT/US2021/062524)
[87] (WO2022/125728)
[30] US (63/124,469) 2020-12-11

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[21] **3,201,446**
[13] A1

[51] **Int.Cl. C07K 14/55 (2006.01) A61K 38/20 (2006.01) A61K 47/00 (2006.01) C12N 15/26 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING HUMAN INTERLEUKIN 2 VARIANT OR DERIVATIVE THEREOF AND USE THEREOF**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN VARIANT D'INTERLEUKINE 2 HUMAINE OU UN DERIVE DE CELLE-CI ET SON UTILISATION**

[72] YE, LINMAO, CN
[72] FAN, YINGFANG, CN
[72] SUN, YANYAN, CN
[72] YU, SHUXIANG, CN
[72] CHEN, HAO, CN
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL, CN
[71] SHANGHAI SHENGDI PHARMACEUTICAL CO., LTD., CN

[85] 2023-05-10
[86] 2021-11-12 (PCT/CN2021/130246)
[87] (WO2022/100684)
[30] CN (202011269123.7) 2020-11-13
[30] CN (202110614713.7) 2021-06-02

[21] **3,201,448**
[13] A1

[51] **Int.Cl. E21B 44/02 (2006.01) E21B 47/26 (2012.01) G06N 20/00 (2019.01)**

[25] EN

[54] **MULTI-AGENT DRILLING DECISION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE DECISION DE FORAGE A AGENTS MULTIPLES**

[72] YU, YINGWEI, US
[72] MEEHAN, RICHARD JOHN, US
[72] JEONG, CHEOLKYUN, US
[72] VESSELINOV, VELIZAR, US
[72] CHEN, WEI, US
[72] SHEN, YUELIN, US
[72] CHAU, MINH TRANG, US
[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2023-05-09
[86] 2021-11-09 (PCT/US2021/072301)
[87] (WO2022/104324)
[30] US (63/198,773) 2020-11-12
[30] US (17/177,897) 2021-02-17

[21] **3,201,449**
[13] A1

[51] **Int.Cl. H01M 4/134 (2010.01) H01M 4/131 (2010.01) H01M 4/136 (2010.01) H01M 4/587 (2010.01) H01M 10/052 (2010.01) H01M 10/0587 (2010.01) H01M 4/02 (2006.01) H01M 4/36 (2006.01) H01M 4/38 (2006.01)**

[25] EN

[54] **ANODE FOR SECONDARY BATTERY AND JELLY-ROLL TYPE ELECTRODE ASSEMBLY INCLUDING ANODE**

[54] **ELECTRODE NEGATIVE POUR BATTERIE SECONDAIRE, ET ENSEMBLE ELECTRODE DE TYPE FEUILLE ENROULEE LA COMPRENANT**

[72] KWON, JUNG GEUN, KR
[72] PAENG, KI HOON, KR
[71] LG ENERGY SOLUTION, LTD., KR

[85] 2023-05-08
[86] 2022-10-11 (PCT/KR2022/015248)
[87] (WO2023/063673)
[30] KR (10-2021-0135030) 2021-10-12

[21] **3,201,450**
[13] A1

[51] **Int.Cl. A61K 39/02 (2006.01) A61K 39/09 (2006.01)**

[25] EN

[54] **BACTERIAL PROTEIN CARRIERS AND CONJUGATION METHODS**

[54] **TRANSPORTEURS DE PROTEINE BACTERIENNE ET PROCEDES DE CONJUGAISON**

[72] MICOLI, FRANCESCA, BE
[72] DI BENEDETTO, ROBERTA, BE
[72] SAUL, ALLAN, BE
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE

[85] 2023-05-10
[86] 2021-11-12 (PCT/EP2021/081566)
[87] (WO2022/101434)
[30] EP (20207547.9) 2020-11-13

[21] **3,201,451**
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01)**

[25] EN

[54] **PARTICLE SIZE CONTROL OF METALLOCENE CATALYST SYSTEMS IN LOOP SLURRY POLYMERIZATION REACTORS**

[54] **CONTROLE DE LA TAILLE DE PARTICULES DE SYSTEMES DE CATALYSEURS METALLOCENES DANS DES REACTEURS DE POLYMERISATION EN SUSPENSION A BOUCLE**

[72] MCDANIEL, MAX P., US
[72] ASH, CARLTON E., US
[72] CLEAR, KATHY S., US
[72] SCHWERDTFEGER, ERIC D., US
[72] CRUZ, CARLOS A., US
[72] PRAETORIUS, JEREMY M., US
[72] YU, YOULU, US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US

[85] 2023-05-09
[86] 2021-11-02 (PCT/US2021/072170)
[87] (WO2022/099250)
[30] US (17/092,394) 2020-11-09

[21] **3,201,452**
[13] A1

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

[25] EN

[54] **METHODS AND COMPOSITIONS FOR INHIBITION OF HAO1 (HYDROXYACID OXIDASE 1 (GLYCOLATE OXIDASE)) GENE EXPRESSION**

[54] **METHODES ET COMPOSITIONS POUR L'INHIBITION DE L'EXPRESSION DU GENE DE L'HAO1 (HYDROXYACIDE OXYDASE 1 (GLYCOLATE OXYDASE))**

[72] MCGREGOR, TRACY L., US
[72] GANSNER, JOHN MICHAEL, US
[72] BHAN, ISHIR, US
[71] ALNYLAM PHARMACEUTICALS, INC., US

[85] 2023-05-10
[86] 2021-12-01 (PCT/US2021/061315)
[87] (WO2022/119873)
[30] US (63/120,150) 2020-12-01
[30] US (63/182,608) 2021-04-30

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[21] **3,201,453**
[13] A1

[51] **Int.Cl. A61B 3/00 (2006.01) A61B 3/113 (2006.01) A61B 5/00 (2006.01) A61B 5/16 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DETECTING NEUROLOGICAL DISORDERS AND FOR MEASURING GENERAL COGNITIVE PERFORMANCE**

[54] **SYSTEME ET METHODE DE DETECTION DE TROUBLES NEUROLOGIQUES ET DE MESURE DES PERFORMANCES COGNITIVES GENERALES**

[72] ABEL FERNANDEZ, GERARDO, AR

[71] VIEWMIND, INC., US

[85] 2023-05-09

[86] 2021-12-22 (PCT/US2021/064774)

[87] (WO2022/140498)

[30] US (63/130,266) 2020-12-23

[21] **3,201,454**
[13] A1

[51] **Int.Cl. B64C 11/00 (2006.01) B64D 27/24 (2006.01)**

[25] EN

[54] **ELECTRICALLY POWERED ENGINE**

[54] **MOTEUR A ALIMENTATION ELECTRIQUE**

[72] BOLAM, ROBERT CAMERON, GB

[71] BOLAM, ROBERT CAMERON, GB

[85] 2023-05-10

[86] 2021-11-19 (PCT/EP2021/082382)

[87] (WO2022/106664)

[30] GB (2018240.8) 2020-11-19

[30] GB (2107186.5) 2021-05-19

[21] **3,201,456**
[13] A1

[51] **Int.Cl. C07D 471/14 (2006.01) A61P 31/14 (2006.01) A61P 31/20 (2006.01) C07F 9/6561 (2006.01)**

[25] EN

[54] **TRICYCLIC COMPOUNDS**

[54] **COMPOSES TRICYCLIQUES**

[72] VENDEVILLE, SANDRINE, US

[72] DEBING, YANNICK, US

[72] RABOISSON, PIERRE JEAN-MARIE BERNARD, US

[71] ALIGOS THERAPEUTICS, INC., US

[85] 2023-05-10

[86] 2021-11-22 (PCT/US2021/060366)

[87] (WO2022/115384)

[30] US (63/117,935) 2020-11-24

[30] US (63/261,713) 2021-09-27

[21] **3,201,457**
[13] A1

[51] **Int.Cl. A23L 3/36 (2006.01) F25D 13/02 (2006.01) F25D 17/04 (2006.01) F25D 17/06 (2006.01)**

[25] EN

[54] **QUICK FREEZE PALLET RACKS WITH VARIABLE LOUVERED DOORS**

[54] **PALETTIERS A CONGELATION RAPIDE DOTES DE PORTES A PERSIENNES VARIABLES**

[72] TIPPMANN, JOSHUA T., US

[72] WELLMAN, BRANDON L., US

[72] HERBER, CALEB P., US

[71] TIPPMANN CONSTRUCTION, LLC, US

[85] 2023-05-10

[86] 2020-11-11 (PCT/US2020/059976)

[87] (WO2022/103386)

[21] **3,201,458**
[13] A1

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

[25] EN

[54] **STACK DESIGN IMPLANT DEVICE**

[54] **DISPOSITIF D'IMPLANT DE CONCEPTION EN PILE**

[72] VAN DEN HEUVEL, KOEN ERIK, BE

[72] VERMEIREN, JAN, BE

[72] BERVOETS, WIM, BE

[72] SVEHLA, MARTIN JOSEPH, AU

[72] RAJE, MILIND CHANDRAKANT, AU

[72] MEEUSEN, TOM, BE

[71] NYXOAH SA, BE

[85] 2023-05-09

[86] 2020-11-18 (PCT/EP2020/082564)

[87] (WO2022/105996)

[21] **3,201,459**
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01) B82Y 5/00 (2011.01) B82Y 15/00 (2011.01) A61K 49/12 (2006.01) A61K 49/18 (2006.01) A61K 51/06 (2006.01) A61K 51/12 (2006.01) A61P 35/00 (2006.01)**

[25] FR

[54] **METHOD FOR PREPARING NANOPARTICLES**

[54] **PROCEDE DE PREPARATION DE NANOPARTICULES**

[72] TILLEMENT, OLIVIER, FR

[72] LUX, FRANCOIS, FR

[72] ROSSETTI, FABIEN, FR

[72] ROCCHI, PAUL, FR

[72] DOUSSINEAU, TRISTAN, FR

[71] NH THERAGUIX, FR

[71] UNIVERSITE CLAUDE BERNARD LYON 1, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS-, FR

[85] 2023-05-10

[86] 2021-11-19 (PCT/FR2021/052041)

[87] (WO2022/106788)

[30] FR (FR2011904) 2020-11-19

[21] **3,201,460**
[13] A1

[51] **Int.Cl. A61K 31/724 (2006.01) A61K 9/00 (2006.01) A61K 47/26 (2006.01)**

[25] EN

[54] **WATER DISSOLVABLE MACROCYCLIC LACTONE CYCLODEXTRIN COMPLEXES**

[54] **COMPLEXES DE CYCLODEXTRINE DE LACTONE MACROCYCLIQUES SOLUBLES DANS L'EAU**

[72] FARBER, MICHAEL, US

[71] MOUNTAIN VALLEY MD INC., CA

[85] 2023-05-10

[86] 2021-07-09 (PCT/US2021/041072)

[87] (WO2022/103450)

[30] US (17/094,297) 2020-11-10

[30] US (17/132,203) 2020-12-23

[30] US (17/363,375) 2021-06-30

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[21] **3,201,462**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/24 (2006.01) A61K 9/28 (2006.01) A61K 31/137 (2006.01) A61K 31/616 (2006.01) A61P 11/02 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **ORAL BILAYER TABLETS COMPRISING ACETYLSALICYLIC ACID AND PSEUDOEPHEDRINE, METHODS OF PREPARING AND USING THEREOF**

[54] **COMPRIMES BICOUCHES ORAUX COMPRENANT DE L'ACIDE ACETYLSALICYLIQUE ET DE LA PSEUDOEPHEDRINE, LEURS METHODES DE PREPARATION ET D'UTILISATION**

[72] MEHTA, HARSH, US
[71] BAYER HEALTHCARE LLC, US
[85] 2023-05-10
[86] 2021-11-02 (PCT/US2021/057702)
[87] (WO2022/103620)
[30] US (63/113,298) 2020-11-13

[21] **3,201,463**
[13] A1

[51] **Int.Cl. C08K 9/10 (2006.01) B32B 27/18 (2006.01) B65D 51/24 (2006.01) B65D 81/26 (2006.01) C08J 7/12 (2006.01) C08K 9/12 (2006.01)**

[25] EN

[54] **SCAVENGING OXYGEN**

[54] **PIEGEAGE D'OXYGENE**

[72] RULE, MARK, US
[72] BURIK, HEATHER, US
[72] BARCON, ALAN, US
[72] ELKIN, ANDREW, GB
[72] CARMICHAEL, ADRIAN, GB
[72] TATTUM, STEVE BURGESS, GB
[71] COLORMATRIX HOLDINGS, INC., US
[85] 2023-05-10
[86] 2021-12-17 (PCT/IB2021/061945)
[87] (WO2022/137059)
[30] US (63/129,763) 2020-12-23

[21] **3,201,464**
[13] A1

[51] **Int.Cl. B32B 37/00 (2006.01) H01M 8/0297 (2016.01) H01M 8/1004 (2016.01) B32B 37/22 (2006.01) B32B 39/00 (2006.01) B32B 38/00 (2006.01) B65G 57/11 (2006.01) H01L 21/67 (2006.01) H01M 8/10 (2016.01)**

[25] EN

[54] **DEVICE AND METHOD FOR TRANSFERRING A CATALYST-COATED MEMBRANE OR A GAS DIFFUSION LAYER**

[54] **DISPOSITIF ET PROCEDE DE TRANSFERT D'UNE MEMBRANE REVETUE D'UN CATALYSEUR OU D'UNE COUCHE DE DIFFUSION GAZEUSE**

[72] DYLLA, NORBERT, DE
[72] JANSEN, JOHANNES, DE
[72] GROTEHUSMANN, ROLF, DE
[72] GRONEMANN, JURGEN, DE
[72] WINTERER, PHILIPP, DE
[72] HALDER, KARL-HEINZ, DE
[71] OPTIMA LIFE SCIENCE GMBH, DE
[85] 2023-05-09
[86] 2021-10-08 (PCT/EP2021/077847)
[87] (WO2022/100942)
[30] DE (10 2020 214 263.7) 2020-11-12

[21] **3,201,465**
[13] A1

[51] **Int.Cl. B82Y 15/00 (2011.01) G01N 27/414 (2006.01)**

[25] EN

[54] **TWO-DIMENSIONAL-MATERIAL-BASED FIELD-EFFECT TRANSISTOR FOR DETECTION OF PATHOGENS AND METHODS FOR MANUFACTURING**

[54] **TRANSISTOR A EFFET DE CHAMP A BASE DE MATERIAUX BIDIMENSIONNELS POUR LA DETECTION DE PATHOGENES ET PROCEDES DE FABRICATION**

[72] MAHJOURI-SAMANI, MASOUD, US
[72] HAMILTON, MICHAEL C., US
[72] KURODA, MARCELO, US
[72] HASIM, SAHAR, US
[72] FATHI-HAFSHEJANI, PARVIN, US
[71] AUBURN UNIVERSITY, US
[85] 2023-05-10
[86] 2021-11-09 (PCT/US2021/058581)
[87] (WO2022/103731)
[30] US (63/111,892) 2020-11-10
[30] US (63/245,444) 2021-09-17

[21] **3,201,466**
[13] A1

[51] **Int.Cl. A61K 31/7105 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **METHODS OF TREATING METABOLIC DISORDERS AND CARDIOVASCULAR DISEASE WITH INHIBIN SUBUNIT BETA E (INHBE) INHIBITORS**

[54] **METHODES DE TRAITEMENT DE TROUBLES METABOLIQUES ET DE MALADIES CARDIOVASCULAIRES AVEC DES INHIBITEURS DE LA SOUS-UNITE BETA E DE L'INHIBINE (INHBE)**

[72] LOTTA, LUCA ANDREA, US
[72] AKBARI, PARSA, US
[72] SOSINA, OLUKAYODE, US
[72] FERREIRA, MANUEL ALLEN REVEZ, US
[72] BARAS, ARIS, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2023-05-09
[86] 2021-12-13 (PCT/US2021/063150)
[87] (WO2022/132666)
[30] US (63/124,949) 2020-12-14
[30] US (63/159,019) 2021-03-10
[30] US (63/233,258) 2021-08-14
[30] US (63/274,595) 2021-11-02

[21] **3,201,467**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61K 31/5025 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **TALAZOPARIB SOFT GELATIN CAPSULE DOSAGE FORM**

[54] **FORME GALENIQUE DE CAPSULE DE GELATINE MOLLE DE TALAZOPARIB**

[72] CARMODY, ALAN FRANCIS, GB
[72] PAIRET, LYDIE CLAUDE SYLVIE, GB
[71] PFIZER INC., US
[85] 2023-05-10
[86] 2021-11-11 (PCT/IB2021/060462)
[87] (WO2022/101828)
[30] US (63/113,345) 2020-11-13
[30] US (63/276,554) 2021-11-05

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[21] **3,201,468**
[13] A1

[51] **Int.Cl. F04C 5/00 (2006.01) F04C 15/00 (2006.01)**
[25] EN
[54] **FLEXIBLE IMPELLER PUMP FOR FLOWABLE FOOD PRODUCT**
[54] **POMPE A TURBINE FLEXIBLE POUR PRODUIT ALIMENTAIRE FLUIDE**
[72] RALEIGH, EDWARD, US
[71] SERVER PRODUCTS, INC., US
[85] 2023-05-10
[86] 2021-11-09 (PCT/US2021/058597)
[87] (WO2022/103740)
[30] US (63/112,423) 2020-11-11
[30] US (17/321,900) 2021-05-17
[30] US (17/357,251) 2021-06-24

[21] **3,201,469**
[13] A1

[51] **Int.Cl. B01J 21/12 (2006.01) B01J 35/10 (2006.01) B01J 37/00 (2006.01) B01J 37/03 (2006.01) B01J 37/06 (2006.01) B01J 37/30 (2006.01)**
[25] EN
[54] **SILICA-ALUMINA COMPOSITION COMPRISING FROM 1 TO 30 WT.% OF CRYSTALLINE AMMONIUM ALUMINUM CARBONATE HYDROXIDE AND METHOD FOR MAKING THE SAME**
[54] **COMPOSITION DE SILICE-ALUMINE COMPRENANT DE 1 A 30 % EN POIDS D'HYDROXYDE DE CARBONATE D'ALUMINIUM ET D'AMMONIUM CRISTALLIN ET SON PROCEDE DE FABRICATION**
[72] JOTHIMURUGESAN, KANDASWAMY, US
[72] TIMKEN, HYE-KYUNG CHO, US
[71] CHEVRON U.S.A. INC., US
[85] 2023-05-10
[86] 2021-07-22 (PCT/IB2021/056626)
[87] (WO2022/101693)
[30] US (63/114,086) 2020-11-16

[21] **3,201,470**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **DOCK HOLDER, PACKAGING, AND METHODS OF USE**
[54] **SUPPORT DE SOCLE, EMBALLAGE ET PROCEDES D'UTILISATION**
[72] LAM, JASON SENG-CHE, US
[72] PATEL, DARSHIN S., US
[72] HAMM, ALYSSA JOY, US
[72] DU, YUANLONG, US
[72] CHAU, JOCELYN, US
[72] CHOW, SEAN, US
[72] RAJPARA, VIPUL P., US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2023-05-09
[86] 2021-12-08 (PCT/US2021/062340)
[87] (WO2022/125621)
[30] US (63/123,425) 2020-12-09

[21] **3,201,471**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **BI-SPECIFIC ANTIBODIES COMPRISING ANTI-CD137 BINDING MOLECULES**
[54] **ANTICORPS BISPECIFIQUES COMPRENANT DES MOLECULES DE LIAISON ANTI-CD137**
[72] WU, YI, CN
[72] WANG, JIEYI, US
[71] LYVGEN BIOPHARMA HOLDINGS LIMITED, KY
[85] 2023-05-10
[86] 2021-11-10 (PCT/US2021/058693)
[87] (WO2022/103780)
[30] CN (PCT/CN2020/127890) 2020-11-10

[21] **3,201,473**
[13] A1

[51] **Int.Cl. B29D 30/06 (2006.01)**
[25] EN
[54] **MOULD AND METHOD FOR MOULDING DOUBLE CURVED ELEMENTS OF ELASTOMERIC MATERIAL**
[54] **MOULE ET PROCEDE DE MOULAGE D'ELEMENTS A DOUBLE COURBURE EN MATERIAU ELASTOMERE**
[72] AMUNDSEN, PAUL MAGNE, NO
[72] HOFSET, TARJEI, NO
[72] MARVIK, OLAF BRAGE, NO
[71] RETYRE AS, NO
[85] 2023-05-10
[86] 2021-11-12 (PCT/NO2021/050236)
[87] (WO2022/103274)
[30] NO (20201223) 2020-11-12

[21] **3,201,474**
[13] A1

[51] **Int.Cl. B01D 35/00 (2006.01) B01D 35/143 (2006.01) B01D 36/00 (2006.01)**
[25] EN
[54] **ROTATING ASSEMBLY WITH INTEGRAL MAGNETIC FILTER FOR WET ROTOR CIRCULATING PUMP**
[54] **ENSEMBLE ROTATIF AVEC FILTRE MAGNETIQUE D'UNE SEULE PIECE POUR POMPE DE CIRCULATION A ROTOR HUMIDE**
[72] CASTELLONE, JOSEPH, US
[71] TACO, INC., US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059118)
[87] (WO2022/104042)
[30] US (63/198,793) 2020-11-13

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[21] **3,201,476**
[13] A1

[51] **Int.Cl. C07D 209/12 (2006.01) C07D 213/40 (2006.01) C07D 233/20 (2006.01) C07D 233/60 (2006.01) C07D 263/20 (2006.01) C07F 7/08 (2006.01)**

[25] EN
[54] **FUNGICIDAL ARYL AMIDINES**
[54] **ARYLE AMIDINES FONGICIDES**
[72] BUYSSE, ANN, US
[72] HANCOCK, ERIN, US
[72] LOPEZ, SUSANA, US
[72] LOY, BRIAN, US
[72] MEYER, STACY T., US
[72] PETKUS, JEFF, US
[72] TLAHUEXT-ACA, ADRIAN, US
[72] WANG, WEIWEI, US
[72] YU, PULAN, US
[71] CORTEVA AGRISCIENCE LLC, US
[85] 2023-05-09
[86] 2021-11-22 (PCT/US2021/060245)
[87] (WO2022/109362)
[30] US (63/117,156) 2020-11-23

[21] **3,201,478**
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/19 (2006.01) A61K 9/70 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61K 47/34 (2017.01)**

[25] EN
[54] **FORMULATIONS**
[54] **FORMULATIONS**
[72] MARQUETTE, SARAH, BE
[72] GOOLE, JONATHAN ELEUTHERE MAURICE, BE
[72] CARLIER, EMERIC, BE
[71] UCB BIOPHARMA SRL, BE
[85] 2023-05-10
[86] 2021-11-29 (PCT/EP2021/083401)
[87] (WO2022/117512)
[30] GB (2018889.2) 2020-12-01

[21] **3,201,479**
[13] A1

[51] **Int.Cl. A61K 38/22 (2006.01) A61K 38/26 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01)**

[25] EN
[54] **METHOD OF REDUCING INTRAOCULAR PRESSURE**
[54] **METHODE DE REDUCTION DE LA PRESSION INTRAOCULAIRE**
[72] SINCLAIR, ALEXANDRA, AU
[71] INVEX THERAPEUTICS LTD, AU
[85] 2023-05-10
[86] 2021-09-17 (PCT/IB2021/058488)
[87] (WO2022/058947)
[30] GB (2014740.1) 2020-09-18

[21] **3,201,480**
[13] A1

[51] **Int.Cl. G16H 10/40 (2018.01) B01L 3/00 (2006.01) G01N 21/78 (2006.01)**

[25] EN
[54] **APPARATUS AND METHODS FOR ASSAYING A LIQUID SAMPLE**
[54] **APPAREIL ET METHODES DE DOSAGE D'ECHANTILLON LIQUIDE**
[72] HALL, WILLIAM JOHN, US
[72] STURMAN, ANDY, US
[71] REDCOAT SOLUTIONS, INC., US
[85] 2023-05-10
[86] 2021-11-12 (PCT/US2021/059173)
[87] (WO2022/104083)
[30] US (63/112,703) 2020-11-12

[21] **3,201,481**
[13] A1

[51] **Int.Cl. A01N 37/42 (2006.01) A01N 37/52 (2006.01) A01N 43/38 (2006.01) C07D 207/09 (2006.01) C07D 211/18 (2006.01) C07D 265/30 (2006.01)**

[25] EN
[54] **FUNGICIDAL ARYL AMIDINES**
[54] **AMIDINES D'ARYLE FONGICIDES**
[72] AVILA-ADAME, CRUZ, US
[72] BHONDE, VASUDEV R., US
[72] LOPEZ, SUSANA, US
[72] LOY, BRIAN, US
[72] MEYER, STACY T., US
[72] NOLAN, ALEX, US
[72] TLAHUEXT-ACA, ADRIAN, US
[71] CORTEVA AGRISCIENCE LLC, US
[85] 2023-05-09
[86] 2021-11-22 (PCT/US2021/060244)
[87] (WO2022/109361)
[30] US (63/117,145) 2020-11-23

[21] **3,201,482**
[13] A1

[51] **Int.Cl. A22B 5/00 (2006.01) A22C 17/00 (2006.01) A22C 17/10 (2006.01) A22C 25/04 (2006.01)**

[25] EN
[54] **A METHOD OF TRACKING A FOOD ITEM IN A PROCESSING FACILITY, AND A SYSTEM FOR PROCESSING FOOD ITEMS**
[54] **PROCEDE DE SUIVI D'UN ARTICLE ALIMENTAIRE DANS UNE INSTALLATION DE TRAITEMENT, ET SYSTEME DE TRAITEMENT D'ARTICLES ALIMENTAIRES**
[72] KJÆR, ANDERS, DK
[72] ANDERSEN, MARTIN, DK
[71] MAREL SALMON A/S, DK
[85] 2023-05-10
[86] 2021-12-03 (PCT/EP2021/084176)
[87] (WO2022/117820)
[30] EP (20212004.4) 2020-12-04

[21] **3,201,483**
[13] A1

[51] **Int.Cl. A22B 7/00 (2006.01) B65G 47/61 (2006.01)**

[25] EN
[54] **OVERHANG RAIL TRANSPORT SYSTEM.**
[54] **SYSTEME DE TRANSPORT PAR RAIL EN PORTE-A-FAUX**
[72] MEERDINK, JAN, NL
[72] VAN DER STEEN, FRANCISCUS THEODORUS HENRICUS JOHANNES, NL
[72] EBERGEN, ADRIAAN, NL
[72] KRANENBARG, RONALD, NL
[72] JANSSEN, CORNELIS JOANNES, NL
[72] ALBERS, BASTIAAN MARTINUS CORNELIS, NL
[71] MAREL MEAT B.V., NL
[85] 2023-05-10
[86] 2021-12-15 (PCT/NL2021/050765)
[87] (WO2022/131914)
[30] NL (2027151) 2020-12-18

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[21] **3,201,485**
[13] A1

[51] **Int.Cl. A23C 20/02 (2021.01) A23L 29/00 (2016.01) A23L 11/40 (2021.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING NON-DAIRY CHEESE, AND NON-DAIRY CHEESE**

[54] **PROCEDE DE FABRICATION DE FROMAGE NON LAITIER, ET FROMAGE NON LAITIER**

[72] MAKINEN, OUTI, FI

[72] LEHTONEN, KAITY-MARIN, FI

[71] ODDLYGOOD GLOBAL OY, FI

[85] 2023-05-10

[86] 2021-11-26 (PCT/FI2021/050814)

[87] (WO2022/117916)

[30] FI (20206230) 2020-12-01

[21] **3,201,488**
[13] A1

[51] **Int.Cl. B22D 2/00 (2006.01) B22D 11/108 (2006.01) B22D 11/16 (2006.01) B22D 11/18 (2006.01) B22D 11/20 (2006.01) B22D 46/00 (2006.01)**

[25] EN

[54] **CASTING METHOD AND ASSOCIATED DEVICE**

[54] **PROCEDE DE COULEE ET DISPOSITIF ASSOCIE**

[72] LEUNG, JACKIE, CA

[72] DAEYOUNG CHUNG, STEPHEN, CA

[72] SENGUPTA, JOYDEEP, CA

[72] RAYNER, TIM, CA

[71] ARCELORMITTAL, LU

[85] 2023-05-09

[86] 2020-12-15 (PCT/IB2020/061922)

[87] (WO2022/129984)

[21] **3,201,490**
[13] A1

[51] **Int.Cl. A23L 33/12 (2016.01) A61K 9/00 (2006.01) A61K 9/28 (2006.01) A61K 31/19 (2006.01)**

[25] EN

[54] **ORALLY DISPERSIBLE COMPOUND CONTAINING AN ESTER OR SALT OF N-BUTYRIC ACID AND PROCESS FOR PRODUCTION**

[54] **COMPOSE DISPERSIBLE PAR VOIE ORALE CONTENANT UN ESTER OU UN SEL D'ACIDE N-BUTYRIQUE ET PROCEDE DE PRODUCTION**

[72] LORENZON, MAURIZIO, IT

[71] SILA SRL, IT

[85] 2023-05-09

[86] 2021-11-12 (PCT/IB2021/060505)

[87] (WO2022/101843)

[30] IT (10202000027305) 2020-11-13

[21] **3,201,487**
[13] A1

[51] **Int.Cl. A61B 18/22 (2006.01) G01B 11/02 (2006.01) G02B 23/24 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR ENHANCING LASER BEAM EFFICACY IN A LIQUID MEDIUM**

[54] **APPAREIL ET PROCEDE D'AUGMENTATION DE L'EFFICACITE D'UN FAISCEAU LASER DANS UN MILIEU LIQUIDE**

[72] ALTMAN, HERNAN, IL

[71] LUMENIS LTD, IL

[85] 2023-05-09

[86] 2021-11-24 (PCT/IB2021/060946)

[87] (WO2022/112978)

[30] US (63/118,117) 2020-11-25

[30] US (63/118,857) 2020-11-27

[30] US (63/252,830) 2021-10-06

[21] **3,201,489**
[13] A1

[51] **Int.Cl. B01J 21/18 (2006.01) C01B 32/312 (2017.01) C01B 32/318 (2017.01)**

[25] EN

[54] **BIOMASS PYROLYSIS INTEGRATED WITH BIO-REDUCTION OF METAL ORES, HYDROGEN PRODUCTION, AND/OR ACTIVATED-CARBON PRODUCTION**

[54] **PYROLYSE DE BIOMASSE INTEGREE A LA BIO-REDUCTION DE MINERAIS METALLIQUES, DE PRODUCTION D'HYDROGENE ET/OU DE PRODUCTION DE CHARBON ACTIF**

[72] MENNELL, JAMES A., US

[72] DAUGAARD, DAREN, US

[72] SLACK, DUSTIN, US

[71] CARBON TECHNOLOGY HOLDINGS, LLC, US

[85] 2023-05-09

[86] 2021-11-19 (PCT/US2021/060071)

[87] (WO2022/109256)

[30] US (63/116,403) 2020-11-20

[30] US (63/130,460) 2020-12-24

[21] **3,201,491**
[13] A1

[51] **Int.Cl. H04N 21/433 (2011.01) H04N 21/434 (2011.01) H04N 21/44 (2011.01) H04N 21/845 (2011.01) H04N 21/854 (2011.01)**

[25] EN

[54] **CONTENT-MODIFICATION SYSTEM WITH MULTIPLE VIDEO BUFFERS FEATURE**

[54] **SYSTEME DE MODIFICATION DE CONTENU AVEC FONCTIONNALITE DE TAMPONS VIDEO MULTIPLES**

[72] GROVER, MATTHEW, GEORGE, US

[71] ROKU, INC., US

[85] 2023-05-10

[86] 2021-11-12 (PCT/US2021/059185)

[87] (WO2022/108843)

[30] US (16/951,180) 2020-11-18

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[21] **3,201,492**
[13] A1

[51] **Int.Cl. A61M 11/00 (2006.01) A61K 9/00 (2006.01) A61K 9/12 (2006.01) B05B 17/06 (2006.01)**

[25] EN

[54] **MULTISTAGE VAPORIZER FOR MEDICAL TREATMENT SYSTEM**

[54] **VAPORISATEUR A ETAGES MULTIPLES POUR SYSTEME DE TRAITEMENT MEDICAL**

[72] HUTCHINS, IV, LOREN HAVENER, US

[72] WEBER, WESLEY JOSEPH, US

[71] VAPOROX, INC., US

[85] 2023-05-09

[86] 2021-11-16 (PCT/US2021/059481)

[87] (WO2022/104246)

[30] US (63/114,256) 2020-11-16

[21] **3,201,494**
[13] A1

[51] **Int.Cl. E21B 43/117 (2006.01)**

[25] EN

[54] **LARGE SHAPED CHARGE PERFORATION TOOL**

[54] **OUTIL DE PERFORATION A GRANDE CHARGE PROFILEE**

[72] PRISBELL, ANDREW, US

[72] LOWE, ERICK, FR

[72] KALAKONDA, HARI, IN

[72] GARZA, JAY, US

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2023-05-10

[86] 2021-11-15 (PCT/US2021/059401)

[87] (WO2022/104221)

[30] US (63/198,794) 2020-11-13

[21] **3,201,495**
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) G16H 40/67 (2018.01)**

[25] FR

[54] **ROBOT-ASSISTED TELE-ECHOGRAPHY PROBE**

[54] **SONDE ROBOTISEE DE TELE-ECHOGRAPHIE**

[72] CHARRON, GWENAEL, FR

[72] LEFEBVRE, ERIC, FR

[71] ADVANCED ECHO TECHNOLOGY, FR

[85] 2023-05-09

[86] 2021-12-17 (PCT/FR2021/052387)

[87] (WO2022/129812)

[30] FR (FR2013519) 2020-12-17

[21] **3,201,497**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/427 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01)**

[25] EN

[54] **HIGH DOSAGE TEBIPENEM PIVOXIL TABLET FORMULATION**

[54] **FORMULATION DE COMPRIME DE TEBIPENEME PIVOXIL A DOSAGE ELEVE**

[72] JAIN, AKASH, US

[72] CHOW, CHING-KUO JIM, US

[71] SPERO THERAPEUTICS, INC., US

[85] 2023-05-09

[86] 2021-11-12 (PCT/US2021/059178)

[87] (WO2022/104087)

[30] US (63/112,434) 2020-11-11

[21] **3,201,498**
[13] A1

[51] **Int.Cl. A61K 31/5517 (2006.01) A61K 9/08 (2006.01) A61K 31/485 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING FLUMAZENIL AND NALTREXONE AND METHODS FOR USE THEREOF**

[54] **COMPOSITIONS COMPRENANT DU FLUMAZENIL ET DE LA NALTREXONE ET LEURS METHODES D'UTILISATION**

[72] RODNE, LEE ERIC, AU

[72] ZANARDO, DANIEL JOHN, AU

[72] CHICK, JULIAN, AU

[71] TREXAPHARM PTY LTD, AU

[85] 2023-05-10

[86] 2021-11-26 (PCT/AU2021/051413)

[87] (WO2022/109677)

[30] AU (2020904390) 2020-11-27

[21] **3,201,499**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **GENETICALLY MODIFIED NATURAL KILLER CELLS AND METHODS OF USE THEREOF**

[54] **CELLULES TUEUSES NATURELLES GENETIQUEMENT MODIFIEES ET PROCEDES D'UTILISATION ASSOCIES**

[72] SURI, VIPIN, US

[72] REDDY, BHARAT DUTTALA, US

[72] BOSCHAR, MARK FERRIS, US

[72] RICHARDSON, CELESTE JEANNE, US

[72] CHOI, EUGENE DAEHEE, US

[72] WALSH, MEGHAN ELIZABETH, US

[72] JOHNSON, JENNIFER ANN, US

[71] CATAMARAN BIO, INC., US

[85] 2023-05-09

[86] 2021-11-12 (PCT/US2021/059204)

[87] (WO2022/104109)

[30] US (63/113,318) 2020-11-13

[30] US (63/143,180) 2021-01-29

[30] US (63/189,029) 2021-05-14

[30] US (63/229,022) 2021-08-03

[21] **3,201,501**
[13] A1

[51] **Int.Cl. B01D 71/52 (2006.01) B01J 20/26 (2006.01) C08J 5/18 (2006.01) C08J 7/02 (2006.01) C08J 7/04 (2020.01) C08J 9/28 (2006.01) C09D 171/12 (2006.01)**

[25] EN

[54] **PPO BASED FILM WITH HIGH SURFACE AREA AND PROCEDURES FOR THE OBTAINMENT THEREOF**

[54] **FILM A BASE DE PPO A AIRE SURFACIQUE ELEVEE ET PROCEDES POUR SON OBTENTION**

[72] BAKU, NAGENDRA, IN

[72] DANIEL, CHRISTOPHE, IT

[72] RIZZO, PAOLA, IT

[72] GUERRA, GAETANO, IT

[71] MATERIAS S.R.L., IT

[85] 2023-05-09

[86] 2021-11-17 (PCT/IB2021/060662)

[87] (WO2022/107022)

[30] IT (10202000027660) 2020-11-18

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| [51] Int.Cl. G16B 20/40 (2019.01) G16H 50/80 (2018.01) | [51] Int.Cl. A01N 25/02 (2006.01) A01N 43/54 (2006.01) C07D 401/12 (2006.01) | [51] Int.Cl. A61K 41/00 (2020.01) B82Y 5/00 (2011.01) B82Y 15/00 (2011.01) A61K 47/54 (2017.01) A61K 47/59 (2017.01) A61K 47/69 (2017.01) A61K 49/12 (2006.01) A61K 49/18 (2006.01) A61N 5/10 (2006.01) A61P 35/00 (2006.01) |
| [25] FR | [25] EN | [25] FR |
| [54] METHOD FOR DETECTING AN INFECTIOUS TRANSMISSION IN A POPULATION | [54] LIQUID PESTICIDAL COMPOSITION | [54] METHOD FOR TREATING TUMOURS BY CAPTURING COPPER AND/OR IRON |
| [54] PROCEDE DE DETECTION D'UNE TRANSMISSION INFECTIEUSE DANS UNE POPULATION | [54] COMPOSITION PESTICIDE LIQUIDE | [54] PROCEDE DE TRAITEMENT DE TUMEURS PAR CAPTATION DU CUIVRE ET/OU DU FER |
| [72] RASIGADE, JEAN-PHILIPPE, FR | [72] TANAKA, TAKUYA, JP | [72] TILLEMENT, OLIVIER, FR |
| [71] HOSPICES CIVILS DE LYON, FR | [71] SUMITOMO CHEMICAL COMPANY, LIMITED, JP | [72] LUX, FRANCOIS, FR |
| [71] UNIVERSITE CLAUDE BERNARD LYON 1, FR | [85] 2023-05-09 | [72] VERNOS, DELPHINE, FR |
| [71] ECOLE NORMALE SUPERIEURE DE LYON, FR | [86] 2021-11-29 (PCT/JP2021/043673) | [72] RODRIGUEZ-LAFRASSE, CLAIRE, FR |
| [71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR | [87] (WO2022/118796) | [72] BRICHART, THOMAS, FR |
| [71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR | [30] US (17/109,400) 2020-12-02 | [72] NATUZZI, MARCO, FR |
| [85] 2023-05-10 | | [72] GELOEN, ALAIN, FR |
| [86] 2021-11-16 (PCT/FR2021/052021) | [21] 3,201,505 [13] A1 | [72] CHAMPAGNE, SIMON, FR |
| [87] (WO2022/101596) | [51] Int.Cl. A61B 18/22 (2006.01) G01B 11/02 (2006.01) G02B 23/24 (2006.01) | [72] MARTINI, MATTEO, FR |
| [30] FR (2011693) 2020-11-16 | [25] EN | [72] ROCCHI, PAUL, FR |
| | [54] METHOD AND SYSTEM FOR ESTIMATING DISTANCE BETWEEN A FIBER END AND A TARGET | [71] NH THERAGUIX, FR |
| | [54] PROCEDE ET SYSTEME D'ESTIMATION DE DISTANCE ENTRE UNE EXTREMITÉ DE FIBRE ET UNE CIBLE | [71] UNIVERSITE CLAUDE BERNARD LYON 1, FR |
| | [72] KHACHATUROV, ARKADY, IL | [71] MEXBRAIN, FR |
| | [72] RONDEL, VITALY, IL | [71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE - CNRS -, FR |
| | [71] LUMENIS LTD, IL | [71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR |
| | [85] 2023-05-09 | [71] HOSPICES CIVILS DE LYON, FR |
| | [86] 2021-11-24 (PCT/IB2021/060945) | [71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR |
| | [87] (WO2022/112977) | |
| | [30] US (63/118,117) 2020-11-25 | |
| | [30] US (63/118,857) 2020-11-27 | |
| | [30] US (63/252,830) 2021-10-06 | |
| [21] 3,201,503 [13] A1 | | |
| [51] Int.Cl. A22B 7/00 (2006.01) | | |
| [25] EN | | |
| [54] A FOOD PROCESSING SYSTEM FOR PROCESSING CARCASS PARTS | | |
| [54] SYSTEME DE TRANSFORMATION D'ALIMENTS POUR LA TRANSFORMATION DE PARTIES DE CARCASSE | | |
| [72] MEERDINK, JAN, NL | | |
| [72] VAN DER STEEN, FRANCISCUS THEODORUS HENRICUS JOHANNES, NL | | |
| [72] VAN DEN HURK, FRANS, NL | | |
| [71] MAREL MEAT B.V., NL | | |
| [85] 2023-05-10 | | |
| [86] 2021-12-15 (PCT/NL2021/050764) | | |
| [87] (WO2022/131913) | | |
| [30] NL (2027156) 2020-12-18 | | |

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[21] **3,201,507**
[13] A1

[51] **Int.Cl. A01H 5/00 (2018.01) A01H 6/14 (2018.01) A01H 6/56 (2018.01) A01H 6/74 (2018.01) A01H 6/82 (2018.01) C12N 5/04 (2006.01) C12N 5/10 (2006.01) C12N 9/10 (2006.01) C12N 15/53 (2006.01) C12N 15/54 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **FLAVONE 4'-O-METHYLTRANSFERASE GENE AND USE FOR SAME**

[54] **GENE DE FLAVONE 4-O-METHYLTRANSFERASE ET SON UTILISATION**

[72] NAKAMURA, NORIKO, JP

[71] SUNTORY HOLDINGS LIMITED, JP

[85] 2023-05-09

[86] 2021-11-18 (PCT/JP2021/042477)

[87] (WO2022/107857)

[30] JP (2020-191753) 2020-11-18

[21] **3,201,508**
[13] A1

[51] **Int.Cl. C09K 5/14 (2006.01) F25B 9/00 (2006.01)**

[25] EN

[54] **COLD STORAGE MATERIAL, COLD STORAGE MATERIAL PARTICLE, GRANULATED PARTICLE, COLD STORAGE DEVICE, REFRIGERATOR, CRYOPUMP, SUPERCONDUCTING MAGNET, NUCLEAR MAGNETIC RESONANCE IMAGING APPARATUS, NUCLEAR MAGNETIC RESONANCE APPARATUS, MAGNETIC FIELD APPLICATION TYPE SINGLE CRYSTAL PULLING APPARATUS, AND HELIUM RE-CONDENSING DEVICE**

[54] **MATERIAU DE STOCKAGE A FROID, PARTICULES DE MATERIAU DE STOCKAGE A FROID, PARTICULES GRANULAIRES, DISPOSITIF DE STOCKAGE A FROID, MACHINE FRIGORIFIQUE, CRYOPOMPE, AIMANT SUPRACONDUCTEUR, APPAREIL D'IMAGERIE PAR RESONANCE MAGNETIQUE NUCLEAIRE, APPAREIL DE RESONANCE MAGNETIQUE NUCLEAIRE, APPAREIL DE TIRAGE DE MONOCRISTAL DE TYPE A APPLICATION DE CHAMP MAGNET**

[72] KAWAMOTO, TAKAHIRO, JP

[72] USUI, DAICHI, JP

[72] HIRAMATSU, RYOSUKE, JP

[72] KONDO, HIROYASU, JP

[72] TAGUCHI, SEINA, JP

[71] KABUSHIKI KAISHA TOSHIBA, JP

[71] TOSHIBA MATERIALS CO., LTD., JP

[85] 2023-05-09

[86] 2021-11-25 (PCT/JP2021/043134)

[87] (WO2022/114045)

[30] JP (2020-195605) 2020-11-26

[30] JP (2021-120187) 2021-07-21

[21] **3,201,509**
[13] A1

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

[25] EN

[54] **DETECTING THE PRESENCE OF LIQUID IN A VIBRATING MEMBRANE NEBULIZER**

[54] **DETECTION DE LA PRESENCE DE LIQUIDE DANS UN NEBULISEUR A MEMBRANE VIBRANTE**

[72] WEISER, YANNIC, GB

[71] VECTURA DELIVERY DEVICES LIMITED, GB

[85] 2023-05-11

[86] 2021-12-15 (PCT/EP2021/085980)

[87] (WO2022/129220)

[30] EP (20214452.3) 2020-12-16

[21] **3,201,510**
[13] A1

[51] **Int.Cl. F21S 2/00 (2016.01) F21V 1/12 (2006.01) F21V 3/02 (2006.01) F21V 21/002 (2006.01)**

[25] FR

[54] **LIGHTING DEVICE**

[54] **DISPOSITIF D'ECLAIRAGE**

[72] EMBERGER, SIMON, FR

[72] DUPUIS, ADRIEN, FR

[72] WATELET, FLORIAN, FR

[72] FRANCOIS, SEBASTIEN, FR

[71] AIRSTAR SAS, FR

[85] 2023-05-11

[86] 2021-10-05 (PCT/EP2021/077336)

[87] (WO2022/106108)

[30] FR (2012025) 2020-11-23

[21] **3,201,513**
[13] A1

[51] **Int.Cl. A61K 47/44 (2017.01) A61K 9/00 (2006.01) A61K 31/05 (2006.01) A61K 47/06 (2006.01) A61K 47/14 (2017.01) A61K 47/22 (2006.01) C07C 39/23 (2006.01)**

[25] EN

[54] **STABLE ORAL CANNABIDIOL COMPOSITIONS**

[54] **COMPOSITIONS ORALES STABLES DE CANNABIDIOL**

[72] RISTEVSKI, BLAGOJA, CA

[72] BOLTON, ANTHONY ERNEST, CA

[71] CARDIOL THERAPEUTICS INC., CA

[85] 2023-05-11

[86] 2020-12-07 (PCT/CA2020/051680)

[87] (WO2022/120457)

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[21] **3,201,514**
[13] A1

[51] **Int.Cl. C07D 233/36 (2006.01) C07C 229/12 (2006.01)**
[25] EN
[54] **MANUFACTURE OF NITRILE COMPOUNDS**
[54] **FABRICATION DE COMPOSES NITRILES**
[72] KANTZER, EIKE NICOLAS, SE
[72] ZAITSEV, ALEXEY BORISOVICH, NL
[72] BOONSTRA, TJERK OEDSE, NL
[72] EHLERS, INA, SE
[72] EDVINSSON, ROLF KRISTER, SE
[72] HEUS, MARTIN, NL
[72] TEN KATE, ANTOON JACOB BEREND, NL
[72] RAAIJMAKERS, MICHIEL JOZEF THOMAS, SE
[71] NOURYON CHEMICALS INTERNATIONAL B.V., NL
[85] 2023-05-11
[86] 2021-12-14 (PCT/EP2021/085649)
[87] (WO2022/129020)
[30] EP (20214773.2) 2020-12-16

[21] **3,201,515**
[13] A1

[51] **Int.Cl. G09F 1/10 (2006.01) G09F 7/18 (2006.01)**
[25] EN
[54] **REPOSITIONABLE DISPLAY PANEL**
[54] **PANNEAU D'AFFICHAGE REPOSITIONNABLE**
[72] POLK, MICHAEL LANE, US
[72] FRANKLIN, GREGORY LEE, US
[71] SHUTTERFLY, LLC, US
[85] 2023-05-11
[86] 2021-07-23 (PCT/US2021/043022)
[87] (WO2022/103456)
[30] US (17/095,167) 2020-11-11

[21] **3,201,516**
[13] A1

[51] **Int.Cl. H04W 36/00 (2009.01) H04W 12/04 (2021.01) H04W 76/27 (2018.01)**
[25] EN
[54] **COMMUNICATION METHOD, APPARATUS, AND SYSTEM**
[54] **PROCEDE, APPAREIL ET SYSTEME DE COMMUNICATION**
[72] YU, GUOHUA, CN
[71] HUAWAI TECHNOLOGIES CO., LTD., CN
[85] 2023-05-11
[86] 2020-11-11 (PCT/CN2020/128172)
[87] (WO2022/099516)

[21] **3,201,517**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/66 (2006.01) C12N 15/82 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **METHODS TO IMPROVE SITE-DIRECTED INTEGRATION FREQUENCY**
[54] **METHODES D'AMELIORATION DE LA FREQUENCE D'INTEGRATION DIRIGEE**
[72] BRADLEY, JOHN, US
[72] GILBERTSON, LARRY A., US
[72] NAGY, ERVIN, US
[72] SHYU, CHRISTINE, US
[72] YANG, PEIZHEN, US
[72] YE, XUDONG, US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2023-05-11
[86] 2021-11-10 (PCT/US2021/058839)
[87] (WO2022/103878)
[30] US (63/112,438) 2020-11-11

[21] **3,201,518**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C12N 5/20 (2006.01)**
[25] EN
[54] **BI-FUNCTIONAL MOLECULES**
[54] **MOLECULES BI-FONCTIONNELLES**
[72] QIAN, XUEMING, CN
[72] LI, HONGJUN, CN
[72] TENG, FEI, CN
[72] GUO, HUANHUAN, CN
[72] GU, YI, CN
[71] SUZHOU TRANSCENTA THERAPEUTICS CO., LTD., CN
[85] 2023-05-11
[86] 2021-11-18 (PCT/CN2021/131389)
[87] (WO2022/105817)
[30] CN (PCT/CN2020/129918) 2020-11-18
[30] CN (PCT/CN2021/073341) 2021-01-22

[21] **3,201,519**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS COMPRISING A KRASG12C INHIBITOR AND A PD-L1 BINDING ANTAGONIST FOR TREATING LUNG CANCER**
[54] **METHODES ET COMPOSITIONS COMPRENANT UN INHIBITEUR DE KRASG12C ET UN ANTAGONISTE DE LIAISON PD-L1 POUR LE TRAITEMENT DU CANCER DU POUMON**
[72] EVANGELISTA, MARIE, US
[72] MERCHANT, MARK ANDREW, US
[72] SCHUTZMAN, JENNIFER LEE, US
[72] LIN, TING-KUN MARK, US
[72] JOO, STEPHANIE ROYER, US
[72] MANDLEKAR, SANDHYA VINAYAK, US
[71] GENENTECH, INC., US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/058874)
[87] (WO2022/103904)
[30] US (63/113,606) 2020-11-13

[21] **3,201,521**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS COMPRISING A KRASG12C INHIBITOR AND A VEGF INHIBITOR FOR TREATING SOLID TUMORS**
[54] **METHODES ET COMPOSITIONS COMPRENANT UN INHIBITEUR DE KRASG12C ET UN INHIBITEUR DE VEGF POUR LE TRAITEMENT DE TUMEURS SOLIDES**
[72] EVANGELISTA, MARIE, US
[72] MERCHANT, MARK ANDREW, US
[72] SCHUTZMAN, JENNIFER LEE, US
[72] LIN, TING-KUN MARK, US
[72] JOO, STEPHANIE ROYER, US
[72] MANDLEKAR, SANDHYA VINAYAK, US
[72] LUTZKER, STUART G., US
[71] GENENTECH, INC., US
[85] 2023-05-11
[86] 2021-11-11 (PCT/US2021/058877)
[87] (WO2022/103905)
[30] US (63/113,609) 2020-11-13

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| <p style="text-align: center;">[21] 3,201,522 [13] A1</p> <p>[51] Int.Cl. H04W 8/26 (2009.01) H04W 36/00 (2009.01)</p> <p>[25] EN</p> <p>[54] HANDOVER PROCESSING METHOD AND APPARATUS, AND COMMUNICATION DEVICE</p> <p>[54] PROCEDE ET APPAREIL DE TRAITEMENT DE COMMUTATION, ET DISPOSITIF DE COMMUNICATION</p> <p>[72] FU, YUEXIA, CN</p> <p>[72] GUO, SONG, CN</p> <p>[72] SHI, XIAOHUI, CN</p> <p>[72] DING, HANYU, CN</p> <p>[72] GENG, LIANG, CN</p> <p>[71] CHINA MOBILE COMMUNICATION CO., LTD RESEARCH INSTITUTE, CN</p> <p>[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN</p> <p>[85] 2023-05-11</p> <p>[86] 2021-11-19 (PCT/CN2021/131716)</p> <p>[87] (WO2022/105868)</p> <p>[30] CN (202011309650.6) 2020-11-20</p> | <p style="text-align: center;">[21] 3,201,525 [13] A1</p> <p>[51] Int.Cl. B23C 5/10 (2006.01)</p> <p>[25] EN</p> <p>[54] CUTTING TOOL FOR MACHINING FIBER COMPOSITE MATERIALS</p> <p>[54] OUTIL DE COUPE POUR L'USINAGE DE MATERIAUX COMPOSITES FIBREUX</p> <p>[72] LUIBRAND, PETER, DE</p> <p>[72] RAPP, OLIVER, DE</p> <p>[72] WALCHER, JOCHEN, DE</p> <p>[72] SCHMID, MICHAEL, DE</p> <p>[71] CERATIZIT BALZHEIM GMBH & CO. KG, DE</p> <p>[85] 2023-05-11</p> <p>[86] 2021-10-22 (PCT/EP2021/079317)</p> <p>[87] (WO2022/117257)</p> <p>[30] EP (20211404.7) 2020-12-03</p> | <p style="text-align: center;">[21] 3,201,527 [13] A1</p> <p>[51] Int.Cl. B32B 5/02 (2006.01) B32B 5/12 (2006.01) B32B 5/24 (2006.01) B32B 5/26 (2006.01) B32B 19/02 (2006.01) B32B 19/04 (2006.01) B32B 19/06 (2006.01)</p> <p>[25] EN</p> <p>[54] STRUCTURAL SHELL</p> <p>[54] ENVELOPPE STRUCTURALE</p> <p>[72] WATS, HENDRIK JOHANNES, GB</p> <p>[71] COEUS LIMITED, UY</p> <p>[85] 2023-05-11</p> <p>[86] 2021-10-26 (PCT/EP2021/079705)</p> <p>[87] (WO2022/101003)</p> <p>[30] GB (2017801.8) 2020-11-11</p> |
| <p style="text-align: center;">[21] 3,201,523 [13] A1</p> <p>[51] Int.Cl. B32B 37/12 (2006.01)</p> <p>[25] EN</p> <p>[54] IN-LINE LAMINATION PROCESS FOR PRODUCING DECORATIVE THERMOPLASTIC COMPOSITE PANELS</p> <p>[54] PROCEDE DE STRATIFICATION EN LIGNE POUR LA PRODUCTION DE PANNEAUX COMPOSITES THERMOPLASTIQUES DECORATIFS</p> <p>[72] WEI, LIQING, US</p> <p>[72] WANG, RUOMAIO, US</p> <p>[72] MASON, MARK O., US</p> <p>[71] HANWHA AZDEL, INC., US</p> <p>[85] 2023-05-11</p> <p>[86] 2021-11-12 (PCT/US2021/059150)</p> <p>[87] (WO2022/104065)</p> <p>[30] US (63/112,914) 2020-11-12</p> <p>[30] US (63/145,073) 2021-02-03</p> <p>[30] US (63/188,358) 2021-05-13</p> | <p style="text-align: center;">[21] 3,201,526 [13] A1</p> <p>[51] Int.Cl. F28D 20/02 (2006.01) F24S 20/40 (2018.01) F25B 41/31 (2021.01) F01K 25/10 (2006.01) F25B 9/00 (2006.01) F25B 39/00 (2006.01)</p> <p>[25] EN</p> <p>[54] MULTISTAGE-COMPRESSION ENERGY STORAGE APPARATUS AND METHOD BASED ON CARBON DIOXIDE GAS-LIQUID PHASE CHANGE</p> <p>[54] APPAREIL ET PROCEDE DE STOCKAGE D'ENERGIE A COMPRESSION A PLUSIEURS ETAGES BASE SUR LE CHANGEMENT DE PHASE GAZ-LIQUIDE DU DIOXYDE DE CARBONE</p> <p>[72] XIE, YONGHUI, CN</p> <p>[72] WANG, QIN, CN</p> <p>[72] SUN, LEI, CN</p> <p>[72] WANG, YUQI, CN</p> <p>[72] ZHANG, DI, CN</p> <p>[72] GUO, YONGLIANG, CN</p> <p>[72] WANG, XIAOYONG, CN</p> <p>[72] YANG, FENG, CN</p> <p>[71] EXA ENERGY TECHNOLOGY (SHENZHEN) CO. LTD., CN</p> <p>[85] 2023-05-11</p> <p>[86] 2021-12-08 (PCT/CN2021/136504)</p> <p>[87] (WO2022/166392)</p> <p>[30] CN (202110169197.1) 2021-02-07</p> | <p style="text-align: center;">[21] 3,201,529 [13] A1</p> <p>[51] Int.Cl. C04B 26/04 (2006.01) C04B 26/06 (2006.01) C04B 26/16 (2006.01) C04B 28/04 (2006.01) C04B 28/06 (2006.01) C04B 28/14 (2006.01) C04B 40/06 (2006.01) E04D 7/00 (2006.01) E04D 11/02 (2006.01)</p> <p>[25] EN</p> <p>[54] USE OF A REACTIVE LIQUID APPLIED ROOF WATERPROOFING PRODUCT FOR PRODUCING A ROOFING MEMBRANE</p> <p>[54] UTILISATION D'UN PRODUIT D'IMPERMEABILISATION DE TOIT APPLIQUE LIQUIDE REACTIF POUR LA PRODUCTION D'UNE MEMBRANE DE TOITURE</p> <p>[72] BOESKER, DENNIS, DE</p> <p>[72] WILLEN, KEVIN, DE</p> <p>[72] WILGEN, RALF, DE</p> <p>[72] GREIWE, MAGNUS, DE</p> <p>[72] SAALBACH, CHRISTIANE, DE</p> <p>[72] SCHRAND, LUKAS, DE</p> <p>[72] KIEHN, SEBASTIAN, DE</p> <p>[72] ENGEL, JENS, DE</p> <p>[71] REMMERS GMBH, DE</p> <p>[85] 2023-05-11</p> <p>[86] 2022-05-24 (PCT/DE2022/100396)</p> <p>[87] (WO2022/247993)</p> <p>[30] DE (10 2021 113 486.2) 2021-05-25</p> <p>[30] EP (PCT/EP2021/074048) 2021-08-31</p> <p>[30] DE (10 2022 106 887.0) 2022-03-23</p> |

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[21] **3,201,530**
[13] A1

[51] **Int.Cl. B29C 65/34 (2006.01) B29C 65/50 (2006.01) F03D 1/06 (2006.01) B29C 65/36 (2006.01)**

[25] EN

[54] **A METHOD FOR PRODUCING A ROTOR BLADE OF A WIND TURBINE**

[54] **PROCEDE DE PRODUCTION D'UNE PALE DE ROTOR D'UNE TURBINE EOLIENNE**

[72] ARSLANER, KEREM, NL

[72] BOSBOOM, MATTHIJS, NL

[72] GAZTELUMENDI LECUONA, JOSE JAVIER, ES

[72] HIERRO-OLABARRIA SALGADO, FRANCISCO JAVIER, ES

[72] MINNEMA, HENK, NL

[71] SIEMENS GAMESA RENEWABLE ENERGY INNOVATION & TECHNOLOGY S.L., ES

[85] 2023-05-11

[86] 2021-11-02 (PCT/EP2021/080323)

[87] (WO2022/101055)

[30] EP (20382984.1) 2020-11-13

[21] **3,201,532**
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A23L 33/10 (2016.01) A23L 33/17 (2016.01) A23L 33/185 (2016.01)**

[25] EN

[54] **FOOD COMPRISING ISOSTEVIOL AND USES THEREOF**

[54] **ALIMENT COMPRENANT DE L'ISOSTEVIOL ET SES UTILISATIONS**

[72] KVISTGAARD, GUNNAR, DK

[72] SONDERGAARD, RANDI KVISTGAARD, DK

[71] ISOFIRMS APS, DK

[85] 2023-05-11

[86] 2021-11-08 (PCT/EP2021/080931)

[87] (WO2022/101133)

[30] DK (PA 2020 70758) 2020-11-16

[21] **3,201,533**
[13] A1

[51] **Int.Cl. C07D 225/02 (2006.01)**

[25] EN

[54] **MODIFIED VIRAL PARTICLES FOR GENE THERAPY**

[54] **PARTICULES VIRALES MODIFIEES DESTINEES A LA THERAPIE GENIQUE**

[72] HEPPENSTALL, PAUL ALEXANDER, DE

[71] EUROPEAN MOLECULAR BIOLOGY LABORATORY, DE

[71] BOREA THERAPEUTICS S.R.L., IT

[85] 2023-05-11

[86] 2021-11-11 (PCT/EP2021/081424)

[87] (WO2022/101363)

[30] US (63/112,457) 2020-11-11

[21] **3,201,547**
[13] A1

[51] **Int.Cl. A61B 17/00 (2006.01) B24B 37/11 (2012.01) A61B 17/3211 (2006.01)**

[25] EN

[54] **CUTTING INSTRUMENT WITH IMPROVED SURFACE TOPOGRAPHY**

[54] **INSTRUMENT DE COUPE A TOPOGRAPHIE DE SURFACE AMELIORE**

[72] SPIRO, CLIFFORD, US

[72] TOBIN, TIMOTHY, US

[72] COATS, ERIC, US

[72] FENDER, WILLIAM, US

[71] ENTREPIX MEDICAL, LLC, US

[85] 2023-03-28

[86] 2021-09-30 (PCT/US2021/053045)

[87] (WO2022/072751)

[30] US (63/085,952) 2020-09-30

[21] **3,201,620**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01) A47C 17/00 (2006.01) A61L 2/18 (2006.01) A61L 2/26 (2006.01)**

[25] EN

[54] **METHODS OF INACTIVATING MICROBIOLOGICAL CONTAMINATION**

[54] **PROCEDES D'INACTIVATION DE CONTAMINATION MICROBIOLOGIQUE**

[72] HELDAL, TROND, CH

[71] OSMOTEX AG, CH

[85] 2023-05-11

[86] 2021-11-17 (PCT/EP2021/081945)

[87] (WO2022/106448)

[30] GB (2018143.4) 2020-11-18

[21] **3,201,621**
[13] A1

[51] **Int.Cl. C07K 14/54 (2006.01) C12N 5/074 (2010.01) C12N 5/0783 (2010.01) C12N 5/0789 (2010.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01)**

[25] EN

[54] **GENETICALLY ENGINEERED CELLS AND USES THEREOF**

[54] **CELLULES GENETIQUEMENT MODIFIEES ET LEURS UTILISATIONS**

[72] NASO, MICHAEL, US

[72] WALLET, MARK, US

[72] MORSE, BARRY, US

[72] BORGES, LUIS, US

[72] GURUNG, BUDDHA, US

[72] QUINN, HILLARY, US

[72] CAMPION, LIAM, US

[72] CARTON, JILL, US

[72] JESSUP, HEIDI, US

[72] BRASEL, KENNETH, US

[72] THOMPSON, LUCAS, US

[72] WHEELER, JOHN, US

[71] CENTURY THERAPEUTICS, INC., US

[85] 2023-05-11

[86] 2021-12-01 (PCT/US2021/072646)

[87] (WO2022/120334)

[30] US (63/120,948) 2020-12-03

[30] US (63/120,799) 2020-12-03

[30] US (63/120,980) 2020-12-03

[21] **3,201,622**
[13] A1

[51] **Int.Cl. B65D 65/40 (2006.01) B32B 7/02 (2019.01) B32B 27/08 (2006.01)**

[25] EN

[54] **PACKAGING SYSTEM WITH CONTROLLED RELEASE OF ACTIVE AGENT**

[54] **SYSTEME D'EMBALLAGE AVEC LIBERATION REGULEE D'AGENT ACTIF**

[72] BELIAS, WILLIAM P., US

[72] THOMAS, TOBY R., US

[72] DOBRESKI, DAVID V., US

[71] SOFRESH, INC., US

[85] 2023-05-11

[86] 2021-11-17 (PCT/US2021/072474)

[87] (WO2022/109572)

[30] US (63/115,510) 2020-11-18

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[21] **3,201,623**
[13] A1

[51] **Int.Cl. B65B 13/06 (2006.01) B65B 13/18 (2006.01) B65B 59/00 (2006.01) B65B 59/04 (2006.01)**

[25] EN

[54] **STRAP-FEEDING ASSEMBLY WITH STRAP-SIZE-ADJUSTMENT FEATURES**

[54] **ENSEMBLE DE DEVIDAGE DE SANGLE PRESENTANT DES ELEMENTS DE REGLAGE DE TAILLE DE SANGLE**

[72] TAKIDIS, DIMITRIOS, CH

[72] BUSER, PHILIPP, CH

[72] BENZ, CHRISTIAN, CH

[72] MENG, MICHAEL, CH

[71] SIGNODE INDUSTRIAL GROUP LLC, US

[85] 2023-05-11

[86] 2021-11-01 (PCT/US2021/072146)

[87] (WO2022/109517)

[30] US (63/114,777) 2020-11-17

[30] US (63/166,666) 2021-03-26

[21] **3,201,624**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **TREATMENT OF LIVER DISEASES WITH CELL DEATH INDUCING DFFA LIKE EFFECTOR B (CIDEB) INHIBITORS**

[54] **TRAITEMENT D'HEPATOPATHIES PAR DES INHIBITEURS D'EFFECTEURS DE TYPE DFFA INDUISANT LA MORT CELLULAIRE B (CELL DEATH INDUCING DFFA LIKE EFFECTOR B, CIDEB)**

[72] VERWEIJ, NIEK, US

[72] LOTTA, LUCA ANDREA, US

[72] BARAS, ARIS, US

[72] HAAS, MARY, US

[72] NIELSEN, JONAS, US

[72] SOSINA, OLUKAYODE, US

[72] LOCKE, ADAM, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2023-05-11

[86] 2021-12-22 (PCT/US2021/064987)

[87] (WO2022/140624)

[30] US (63/129,725) 2020-12-23

[30] US (63/149,258) 2021-02-13

[30] US (63/246,101) 2021-09-20

[30] US (63/257,137) 2021-10-19

[21] **3,201,625**
[13] A1

[51] **Int.Cl. H04B 10/69 (2013.01)**

[25] EN

[54] **DETECTING POWER OF LOW-BANDWIDTH AND BROAD-BANDWIDTH OPTICAL SIGNALS**

[54] **DETECTION DE PUISSANCE DE SIGNAUX OPTIQUES A FAIBLE BANDE PASSANTE ET A LARGE BANDE PASSANTE**

[72] LUK, TOM, CA

[71] CIENA CORPORATION, US

[85] 2023-05-11

[86] 2021-12-07 (PCT/US2021/062117)

[87] (WO2022/125491)

[30] US (17/116,461) 2020-12-09

[21] **3,201,626**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/50 (2006.01) G01N 33/92 (2006.01)**

[25] EN

[54] **BIOLOGICAL VESICLES DISPLAYING CELL SURFACE PROTEINS AND METHODS RELATED TO SAME**

[54] **VESICULES BIOLOGIQUES PRESENTANT DES PROTEINES DE SURFACE CELLULAIRE ET PROCEDES ASSOCIES**

[72] MARTINEZ-MARTIN, NADIA, US

[72] PETERSON, SEAN M., US

[72] CAO, SHENGYA, US

[71] GENENTECH, INC., US

[85] 2023-05-11

[86] 2021-11-30 (PCT/US2021/061120)

[87] (WO2022/119805)

[30] US (63/120,167) 2020-12-01

[30] US (63/212,021) 2021-06-17

[30] US (63/227,039) 2021-07-29

[21] **3,201,627**
[13] A1

[51] **Int.Cl. F28C 1/16 (2006.01) B01D 1/16 (2006.01) F28C 1/14 (2006.01) F28C 3/06 (2006.01) F28D 15/02 (2006.01) F28F 25/02 (2006.01)**

[25] EN

[54] **HEAT REJECTION APPARATUS, PLUME ABATEMENT SYSTEM, AND METHOD**

[54] **APPAREIL D'EVACUATION DE CHALEUR, SYSTEME DE REDUCTION DE PANACHE ET PROCEDE**

[72] BLAY, PRESTON, US

[72] SHIN, YOON K., US

[72] AARON, DAVID ANDREW, US

[71] BALTIMORE AIRCOIL COMPANY, INC., US

[85] 2023-05-11

[86] 2021-11-23 (PCT/US2021/060507)

[87] (WO2022/109454)

[30] US (63/117,244) 2020-11-23

[21] **3,201,628**
[13] A1

[51] **Int.Cl. C09J 133/10 (2006.01)**

[25] EN

[54] **A WATER-DISPERSIBLE PRESSURE SENSITIVE ADHESIVE COMPOSITION**

[54] **COMPOSITION D'ADHESIF SENSIBLE A LA PRESSION A DISPERSION DANS L'EAU**

[72] TERNORUSKY, LEO, US

[72] ALEXANDER, LAUREN, US

[72] MOUNTZ, DAVID, US

[72] RAMSEY, NATHAN, US

[71] ARKEMA FRANCE, FR

[85] 2023-05-11

[86] 2021-11-23 (PCT/US2021/060469)

[87] (WO2022/109444)

[30] US (63/117,299) 2020-11-23

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[21] **3,201,629**
[13] A1

[51] **Int.Cl. E21B 43/117 (2006.01)**
[25] EN
[54] **ORIENTED-PERFORATION TOOL**
[54] **OUTIL DE PERFORATION**
ORIENTEE
[72] LOWE, ERICK, FR
[72] PRISBELL, ANDREW, US
[72] HERNANDEZ, STEVEN, US
[71] SCHLUMBERGER CANADA
LIMITED, CA
[85] 2023-05-11
[86] 2021-11-15 (PCT/US2021/059400)
[87] (WO2022/104220)
[30] US (63/198,792) 2020-11-13

[21] **3,201,631**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) C12N**
5/0783 (2010.01) C12N 15/113
(2010.01) C12N 5/10 (2006.01) C12N
9/22 (2006.01) C12N 15/62 (2006.01)
C12N 15/63 (2006.01) C12Q 1/68
(2018.01)
[25] EN
[54] **TARGETED GENE REGULATION**
OF HUMAN IMMUNE CELLS
WITH CRISPR-CAS SYSTEMS
[54] **REGULATION GENIQUE CIBLEE**
DE CELLULES IMMUNITAIRES
HUMAINES AVEC DES
SYSTEMES CRISPR-CAS
[72] GERSBACH, CHARLES A., US
[72] MCCUTCHEON, SEAN, US
[71] DUKE UNIVERSITY, US
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/059270)
[87] (WO2022/104159)
[30] US (63/113,785) 2020-11-13
[30] US (63/136,953) 2021-01-13

[21] **3,201,633**
[13] A1

[51] **Int.Cl. E01B 31/13 (2006.01) B23C**
5/24 (2006.01)
[25] EN
[54] **DEVICE FOR MILLING A**
PROFILE, ASSOCIATED METHOD
AND REFERENCE BODY
[54] **DISPOSITIF DE MEULAGE DE**
PROFILE, PROCEDE ET CORPS
DE REFERENCE ASSOCIES
[72] MEVERT, FRANK, DE
[71] SCHWEERBAU INTERNATIONAL
GMBH & CO. KG, DE
[85] 2023-05-11
[86] 2021-11-26 (PCT/EP2021/083206)
[87] (WO2022/135832)
[30] DE (10 2020 134 658.1) 2020-12-22

[21] **3,201,634**
[13] A1

[51] **Int.Cl. E01B 31/13 (2006.01) B23C**
3/00 (2006.01) B23C 5/24 (2006.01)
[25] EN
[54] **DEVICE WITH A**
ROTATIONALLY DRIVABLE
MILLING BODY
[54] **DISPOSITIF DOTE D'UN CORPS**
DE FRAISAGE POUVANT ETRE
ENTRAINE EN ROTATION
[72] MEVERT, FRANK, DE
[71] SCHWEERBAU INTERNATIONAL
GMBH & CO. KG, DE
[85] 2023-05-11
[86] 2021-12-10 (PCT/EP2021/085214)
[87] (WO2022/135975)
[30] DE (10 2020 134 660.3) 2020-12-22

[21] **3,201,635**
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) B01F**
25/64 (2022.01) B01J 19/18 (2006.01)
C10G 9/00 (2006.01)
[25] EN
[54] **ROTARY FEEDSTOCK**
PROCESSING APPARATUS WITH
AN AXIALLY ADJUSTABLE
ROTOR
[54] **DISPOSITIF ROTATIF DE**
TRAITEMENT D'UNE CHARGE
D'ALIMENTATION DOTE D'UN
ROTOR A REGLAGE AXIAL
[72] KARPOV, ALEXANDER, FI
[72] SEMENOV, DENIS, FI
[71] COOLBROOK OY, FI
[85] 2023-05-11
[86] 2021-11-17 (PCT/FI2021/050777)
[87] (WO2022/106754)
[30] FI (20206172) 2020-11-18

[21] **3,201,636**
[13] A1

[51] **Int.Cl. C09D 5/10 (2006.01) C09D**
5/16 (2006.01)
[25] EN
[54] **MARINE COATING**
COMPOSITION
[54] **COMPOSITION DE REVETEMENT**
MARIN
[72] PAL, MADAN, GB
[71] BAE SYSTEMS PLC, GB
[85] 2023-05-11
[86] 2021-11-04 (PCT/GB2021/052871)
[87] (WO2022/101610)
[30] GB (2017828.1) 2020-11-12

[21] **3,201,637**
[13] A1

[51] **Int.Cl. A61P 37/06 (2006.01) C07K**
16/24 (2006.01)
[25] EN
[54] **BISPECIFIC ANTIBODIES FOR**
USE IN TREATMENT OF NLRC4-
GOF INFLAMMASOMAPATHY
[54] **ANTICORPS BISPECIFIQUES**
DESTINES A ETRE UTILISES
DANS LE TRAITEMENT DE
L'INFLAMMASOMAPATHIE
NLRC4-GOF
[72] JUNGE, GUIDO, CH
[72] KIFFE, MICHAEL, CH
[72] KOVARIK, JIRI, CH
[72] STEIN, RICHARD, CH
[72] WALDRON-LYNCH, FRANK, US
[71] NOVARTIS AG, CH
[85] 2023-05-11
[86] 2021-11-16 (PCT/IB2021/060623)
[87] (WO2022/107001)
[30] US (63/115,473) 2020-11-18
[30] US (63/237,473) 2021-08-26

PCT Applications Entering the National Phase

[21] **3,201,639**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD FOR DETECTING A MICROSLEEP STATE OF MIND OF A PERSON BY PROCESSING AT LEAST ONE EEG TRACE USING AN ARTIFICIAL INTELLIGENCE ALGORITHM AND SYSTEM CONFIGURED TO IMPLEMENT SUCH METHOD**
[54] **PROCEDE MIS EN ~UVRE PAR ORDINATEUR POUR DETECTER UN ETAT DE MICRO-SOMMEIL D'UNE PERSONNE PAR TRAITEMENT D'AU MOINS UNE TRACE D'EEG A L'AIDE D'UN ALGORITHME D'INTELLIGENCE ARTIFICIELLE ET SYSTEME CONCU POUR METTRE EN OEUVRE UN TEL PROCEDE**
[72] GALETTA, MICHELE, IT
[72] MAGUOLO, GIANLUCA, IT
[72] NANNI, LORIS, IT
[72] ROSSATO, GIANLUCA, IT
[72] TONON, DAVIDE, IT
[71] ORAIGO S.R.L., IT
[85] 2023-05-11
[86] 2021-11-29 (PCT/IB2021/061073)
[87] (WO2022/113037)
[30] IT (10202000028916) 2020-11-30

[21] **3,201,640**
[13] A1

[51] **Int.Cl. B29B 9/14 (2006.01) B29B 7/90 (2006.01) B29B 9/06 (2006.01) B29B 17/04 (2006.01) C08J 3/12 (2006.01)**
[25] EN
[54] **PRODUCTION PROCESS OF A GRANULAR INFILL MATERIAL AND RELATED GRANULAR INFILL MATERIAL**
[54] **PROCEDE DE PRODUCTION D'UN MATERIAU DE REMPLISSAGE GRANULAIRE ET MATERIAU DE REMPLISSAGE GRANULAIRE S'Y RAPPORTANT**
[72] DIAN, ROBERTO, IT
[71] POLYGREEN SRL, IT
[85] 2023-05-11
[86] 2021-10-13 (PCT/IT2021/050330)
[87] (WO2022/107176)
[30] IT (10202000027594) 2020-11-18

[21] **3,201,641**
[13] A1

[51] **Int.Cl. B05D 1/36 (2006.01) B05D 3/02 (2006.01) B05D 5/06 (2006.01) B32B 27/30 (2006.01) B32B 27/40 (2006.01) C08G 18/62 (2006.01) C09D 133/14 (2006.01) C09D 167/00 (2006.01) C09D 175/04 (2006.01)**
[25] EN
[54] **COATING COMPOSITION HAVING HIGH SOLID CONTENT AND METHOD FOR FORMING MULTILAYER COATING FILM**
[54] **COMPOSITION DE MATERIAU DE REVETEMENT A HAUT EXTRAIT SEC, ET PROCEDE DE FORMATION DE FILM DE REVETEMENT MULTICOUCHE**
[72] FURUYA, DAISUKE, JP
[72] AZUMA, TATSUYA, JP
[71] KANSAI PAINT CO., LTD., JP
[85] 2023-05-11
[86] 2021-11-18 (PCT/JP2021/042430)
[87] (WO2022/107847)
[30] JP (2020-191308) 2020-11-18

[21] **3,201,642**
[13] A1

[51] **Int.Cl. B27N 3/18 (2006.01) B32B 21/02 (2006.01) B32B 21/14 (2006.01) E04F 15/10 (2006.01)**
[25] EN
[54] **METHOD TO PRODUCE A VENEERED ELEMENT AND A VENEERED ELEMENT**
[54] **PROCEDE DE PRODUCTION D'UN ELEMENT PLAQUE ET ELEMENT PLAQUE**
[72] NILSSON, MAGNUS, SE
[72] BERGENDAL, SOFIA, SE
[71] VALINGE INNOVATION AB, SE
[85] 2023-05-11
[86] 2021-12-07 (PCT/SE2021/051215)
[87] (WO2022/124969)
[30] SE (2051432-9) 2020-12-08

[21] **3,201,643**
[13] A1

[51] **Int.Cl. B32B 37/12 (2006.01) B29C 31/08 (2006.01) B29C 43/22 (2006.01) B29C 43/48 (2006.01) B29C 44/36 (2006.01) B29C 44/46 (2006.01) B32B 5/18 (2006.01) B32B 5/20 (2006.01) B32B 38/06 (2006.01)**
[25] EN
[54] **IN-LINE LAMINATION PROCESS FOR PRODUCING THERMOPLASTIC COMPOSITE PANELS WITH TEXTURED FILM LAYERS**
[54] **PROCEDE DE STRATIFICATION EN LIGNE DE PRODUCTION DE PANNEAUX COMPOSITES THERMOPLASTIQUES AVEC DES COUCHES DE FILM TEXTUREES**
[72] WEI, LIQING, US
[71] HANWHA AZDEL, INC., US
[85] 2023-05-11
[86] 2021-11-12 (PCT/US2021/059162)
[87] (WO2022/104075)
[30] US (63/112,914) 2020-11-12
[30] US (63/145,073) 2021-02-03
[30] US (63/188,358) 2021-05-13

Demandes PCT entrant en phase nationale

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| [21] 3,201,645 [13] A1 | [21] 3,201,661 [13] A1 | [21] 3,201,666 [13] A1 |
| [51] Int.Cl. C05G 5/35 (2020.01) C05G 5/12 (2020.01) C08L 29/00 (2006.01) C08L 97/00 (2006.01) | [51] Int.Cl. C07H 21/04 (2006.01) C12N 15/113 (2010.01) C12N 15/11 (2006.01) | [51] Int.Cl. C07C 59/125 (2006.01) A61K 31/045 (2006.01) A61K 31/352 (2006.01) A61P 17/10 (2006.01) |
| [25] EN | [25] EN | [25] EN |
| [54] RELEASE CAPSULE, POLYMERIC SOLUTION, METHOD OF PRODUCING CAPSULES, ENCAPSULATED UREA FOR USE IN SOIL CORRECTION, POLYMERIC MATERIEL FOR RELEASE OF A RELEASE COMPOUND, POLYMERIC CONTROLLED RELEASE SYSTEM, METHOD OF CONTROLLED RELEASE, APPLICATION COMPOSITION AND SOIL REPAIRING AGENT | [54] COMPOUNDS AND METHODS FOR MODULATING ANGIOTENSINOGEN EXPRESSION | [54] CANNABINOID EMULSIFIER |
| [54] CAPSULE DE LIBERATION, SOLUTION POLYMEREE, PROCEDE DE PRODUCTION DE CAPSULES, UREE ENCAPSULEE POUR UNE UTILISATION DANS L'AMENDEMENT DE SOL, MATERIAU POLYMEREE POUR LA LIBERATION D'UN COMPOSE DE LIBERATION, SYSTEME POLYMEREE DE LIBERATION CONTROLEE, PROCEDE DE LIBERATION CONTROLEE, COMPOSITION D'APPLICATION ET AGENT DE RESTAURATION DE SOL | [54] COMPOSES ET PROCEDES POUR MODULER L'EXPRESSION DE L'ANGIOTENSINOGENE | [54] EMULSIFIANT DE CANNABINOIDE |
| [72] REIS, MIRIA HESPANHOL MIRANDA, BR | [72] MULLICK, ADAM, US | [72] GERLACH, CHRIS D., US |
| [72] HENRIQUE, HUMBERTO MOLINAR, BR | [72] FREIER, SUSAN M., US | [72] SULLIVAN, PAUL F., US |
| [72] DOS SANTOS, ANTONIO CARLOS SILVA, BR | [71] IONIS PHARMACEUTICALS, INC., US | [72] PALMER, CHARLES F., JR., US |
| [72] CARDOSO, VICELMA LUIZ, BR | [85] 2023-05-12 | [72] TOBIAS, ANDREW K., JR., US |
| [71] SUZANO S.A., BR | [86] 2021-11-18 (PCT/US2021/059896) | [72] BORISH, EDWARD T., US |
| [71] UNIVERSIDADE FEDERAL DE UBERLANDIA - UFU, BR | [87] (WO2022/109139) | [72] KEOWN, BRAD P., US |
| [85] 2023-05-12 | [30] US (63/115,499) 2020-11-18 | [72] BRIDENSTINE, NORA E. H., US |
| [86] 2021-11-30 (PCT/BR2021/050528) | [30] US (63/232,109) 2021-08-11 | [72] TANNER, JAMES T., US |
| [87] (WO2022/109706) | | [71] SYNERGY LIFE SCIENCE, INC., US |
| | | [71] ETHOX CHEMICALS, LLC, US |
| | [21] 3,201,663 [13] A1 | [85] 2023-05-12 |
| | [51] Int.Cl. C07D 471/04 (2006.01) | [86] 2021-11-16 (PCT/US2021/059476) |
| | [25] EN | [87] (WO2022/104245) |
| | [54] PROCESS FOR PREPARING 7-CHLORO-6-FLUORO-1-(2-ISOPROPYL-4-METHYLPYRIDIN-3-YL)PYRIDOF[2,3-D]PYRIMIDINE-2,4(1H,3H)-DIONE | [30] US (63/114,010) 2020-11-16 |
| | [54] PROCEDE DE PREPARATION DE 7-CHLORO-6-FLUORO-1-(2-ISOPROPYL-4-METHYLPYRIDIN-3-YL)PYRIDOF[2,3-D]PYRIMIDINE-2,4(1H,3H)-DIONE | |
| | [72] ACHMATOWICZ, MICHAL, US | |
| | [72] COYLER, JOHN T., US | |
| | [72] CORBETT, MICHAEL T., US | |
| | [72] GRIFFIN, DANIEL J., US | |
| | [72] PARSONS, ANDREW T., US | |
| | [72] ROBINSON, JOANNA, US | |
| | [72] QUASDORF, KYLE, US | |
| | [71] AMGEN INC., US | |
| | [85] 2023-05-12 | |
| | [86] 2021-11-19 (PCT/US2021/060048) | |
| | [87] (WO2022/109242) | |
| | [30] US (63/116,703) 2020-11-20 | |
| | | [21] 3,201,667 [13] A1 |
| | | [51] Int.Cl. A61B 5/0205 (2006.01) A61B 5/11 (2006.01) A61B 5/00 (2006.01) A61B 5/01 (2006.01) |
| | | [25] EN |
| | | [54] ACTIVITY CLASSIFICATION AND DISPLAY |
| | | [54] CLASSIFICATION ET AFFICHAGE D'ACTIVITE |
| | | [72] SERGEEV, DMITRY, FI |
| | | [72] PARTANEN, JUKKA, FI |
| | | [72] AKHTER, AZEEM, FI |
| | | [72] KUKKA, MATIAS, FI |
| | | [72] SINGLETON, ROBERT, FI |
| | | [72] KUKKA, JANNE, FI |
| | | [71] OURA HEALTH OY, FI |
| | | [85] 2023-05-12 |
| | | [86] 2021-11-15 (PCT/US2021/059366) |
| | | [87] (WO2022/104199) |
| | | [30] US (63/114,188) 2020-11-16 |
| | | [30] US (17/526,300) 2021-11-15 |

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[21] **3,201,670**

[13] A1

[51] **Int.Cl. C08G 18/06 (2006.01) C08G
18/36 (2006.01) C08G 18/42 (2006.01)**

[25] EN

[54] **A POLYURETHANE FOAM
COMPOSITION COMPRISING AN
AROMATIC POLYESTER
POLYOL COMPOUND AND
PRODUCTS MADE THEREFROM**

[54] **COMPOSITION DE MOUSSE DE
POLYURETHANE COMPRENANT
UN COMPOSE POLYESTER
POLYOL AROMATIQUE ET
PRODUITS CONSTITUES A
PARTIR DE CELLE-CI**

[72] XI, KAI, US

[72] MACKEY, PAUL, US

[72] WU, LIFENG, US

[72] SINGH, SACHCHIDA, US

[71] HUNTSMAN INTERNATIONAL
LLC, US

[85] 2023-05-12

[86] 2021-12-03 (PCT/US2021/061785)

[87] (WO2022/120155)

[30] US (63/120,993) 2020-12-03

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Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

| [21] 3,200,166 [13] A1 | [21] 3,200,284 [13] A1 | [21] 3,200,311 [13] A1 |
|---|---|--|
| <p>[51] Int.Cl. C12N 15/113 (2010.01) A01N 63/60 (2020.01) A01H 5/00 (2018.01) A01P 7/04 (2006.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01) C12N 15/82 (2006.01)</p> <p>[25] EN</p> <p>[54] COMPOSITIONS AND METHODS TO CONTROL INSECT PESTS</p> <p>[54] COMPOSITIONS ET PROCEDES POUR CONTROLER DES INSECTES RAVAGEURS</p> <p>[72] HU, XU, US</p> <p>[72] PRESNAIL, JAMES, US</p> <p>[72] RICHTMAN, NINA, US</p> <p>[72] DIEHN, SCOTT, US</p> <p>[72] VAN ALLEN, MICHELLE, US</p> <p>[72] PROCYK, LISA, US</p> <p>[71] PIONEER HI-BRED INTERNATIONAL, INC., US</p> <p>[71] E. I. DU PONT DE NEMOURS AND COMPANY, US</p> <p>[22] 2014-03-14</p> <p>[41] 2014-09-25</p> <p>[62] 2,902,002</p> <p>[30] US (61/785,680) 2013-03-14</p> <p>[30] US (13/831,230) 2013-03-14</p> | <p>[25] EN</p> <p>[54] AUTOMATED METHOD AND SYSTEM FOR OBTAINING AND PREPARING MICROORGANISM SAMPLE FOR BOTH IDENTIFICATION AND ANTIBIOTIC SUSCEPTIBILITY TESTS</p> <p>[54] PROCEDE ET SYSTEME AUTOMATISES POUR OBTENTION ET PREPARATION D'UN ECHANTILLON DE MICRO-ORGANISMES POUR TESTS D'IDENTIFICATION ET DE SENSIBILITE AUX ANTIBIOTIQUES</p> <p>[72] HANSEN, TIMOTY R., US</p> <p>[72] HOLTZ, RICK, US</p> <p>[72] KLEEFSTRA, MARTIJN, NL</p> <p>[72] MARCELPOIL, RAPHAEL RODOLPHE, FR</p> <p>[72] PIERPONT, RICK, US</p> <p>[72] POHL, BRENT RONALD, US</p> <p>[72] SHEDLOSKEY, ALYSSA, US</p> <p>[72] SHINDLEDECKER, SCOTT, US</p> <p>[72] SKEVINGTON, EDWARD, US</p> <p>[72] SMITH, KERRY LYNN, US</p> <p>[72] WILES, TIMOTHY, US</p> <p>[71] BD KIESTRA B.V., NL</p> <p>[22] 2016-05-27</p> <p>[41] 2016-12-01</p> <p>[62] 2,987,419</p> <p>[30] US (62/167,593) 2015-05-28</p> <p>[30] US (62/167,577) 2015-05-28</p> <p>[30] US (62/269,545) 2015-12-18</p> <p>[30] US (62/318,494) 2016-04-05</p> | <p>[25] EN</p> <p>[54] RELEASE MONITORING THROUGH CHECK-IN AND TETHERING SYSTEM</p> <p>[54] SURVEILLANCE DE LIBERATION AU MOYEN D'UN SYSTEME DE CONTROLE ET D'ATTACHE</p> <p>[72] HODGE, STEPHEN L., US</p> <p>[71] GLOBAL TEL*LINK CORPORATION, US</p> <p>[22] 2018-08-03</p> <p>[41] 2019-02-07</p> <p>[62] 3,071,969</p> <p>[30] US (15/668,493) 2017-08-03</p> |
| <p style="text-align: center;">[21] 3,200,272 [13] A1</p> <p>[51] Int.Cl. B22F 9/30 (2006.01) B22F 1/065 (2022.01)</p> <p>[25] EN</p> <p>[54] SPHEROIDAL DEHYDROGENATED METALS AND METAL ALLOY PARTICLES</p> <p>[54] METAUX DESHYDROGENES SPHEROIDAUX ET PARTICULES D'ALLIAGE METALLIQUE</p> <p>[72] HADIDI, KAMAL, US</p> <p>[72] WROBEL, GREGORY, US</p> <p>[72] REDJDAL, MAKHLOUF, US</p> <p>[71] 6K INC., US</p> <p>[22] 2016-12-16</p> <p>[41] 2017-06-22</p> <p>[62] 3,009,630</p> <p>[30] US (62/268,186) 2015-12-16</p> | | |

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|---|--|--|
| <p>[21] 3,200,347 [13] A1</p> | <p>[21] 3,200,357 [13] A1</p> | <p>[21] 3,200,448 [13] A1</p> |
| <p>[25] EN [54] INTERACTIVE INTERFACES FOR MACHINE LEARNING MODEL EVALUATIONS [54] INTERFACES INTERACTIVES POUR DES EVALUATIONS DE MODELE D'APPRENTISSAGE MACHINE [72] LEE, POLLY PO YEE, US [72] CORREA, NICOLLE M., US [72] DIRAC, LEO PARKER, US [72] INGERMAN, ALEKSANDR MIKHAYLOVICH, US [72] KRISHNAN, SRIRAM, US [72] LI, JIN, US [72] PUVVADI, SUDHAKAR RAO, US [72] ZARANDIOON, SAMAN, US [72] DANNAKER, CHARLES ERIC, US [72] RAMAKRISHNAN, RAKESH, US [72] ZHENG, TIANMING, US [72] ZHUO, DONGHUI, US [72] AGARWAL, TARUN, US [72] STEELE, ROBERT MATTHIAS, US [72] QIAN, JUN, US [72] BRUECKNER, MICHAEL, US [72] HERBRICH, RALF, US [72] BLICK, DANIEL, US [71] AMAZON TECHNOLOGIES, INC., US [22] 2015-06-30 [41] 2016-01-07 [62] 2,953,969 [30] US (14/319,880) 2014-06-30 [30] US (14/319,902) 2014-06-30 [30] US (14/460,314) 2014-08-14 [30] US (14/460,312) 2014-08-14 [30] US (14/463,434) 2014-08-19 [30] US (14/484,201) 2014-09-11 [30] US (14/489,449) 2014-09-17 [30] US (14/489,448) 2014-09-17 [30] US (14/538,723) 2014-11-11 [30] US (14/569,458) 2014-12-12</p> | <p>[25] EN [54] PACKAGED MODIFIED RELEASE GAMMA-HYDROXYBUTYRATE FORMULATIONS HAVING IMPROVED STABILITY [54] FORMULATIONS CONDITIONNEES A LIBERATION MODIFIEE DE GAMMA-HYDROXYBUTYRATE AYANT UNE STABILITE AMELIOREE [72] GUILLARD, HERVE, FR [71] FLAMEL IRELAND LIMITED, IE [22] 2018-12-18 [41] 2019-06-27 [62] 3,084,120 [30] US (62/607,937) 2017-12-20 [30] US (62/618,832) 2018-01-18</p> <hr/> <p style="text-align: right;">[21] 3,200,425 [13] A1</p> <p>[25] EN [54] RECOMBINANT ADENOVIRUSES AND USE THEREOF [54] ADENOVIRUS RECOMBINANTS ET LEUR UTILISATION [72] ABBINK, PETER, US [72] BAROUCH, DAN H., US [72] VIRGIN, HERBERT, US [71] WASHINGTON UNIVERSITY, US [71] BETH ISRAEL DEACONESS MEDICAL CENTER, INC., US [22] 2013-11-15 [41] 2014-05-22 [62] 2,891,349 [30] US (61/727,455) 2012-11-16</p> | <p>[51] Int.Cl. E21B 41/00 (2006.01) E21B 43/26 (2006.01) F04B 49/06 (2006.01) G05B 19/05 (2006.01) H02P 27/04 (2016.01) E21B 47/12 (2012.01) [25] EN [54] WELL FRACTURING SYSTEMS WITH ELECTRICAL MOTORS AND METHODS OF USE [54] SYSTEMES DE FRACTURATION DE Puits A MOTEURS ELECTRIQUES ET PROCEDES D'UTILISATION [72] PAYNE, MARK, US [72] LIN, HAOMIN, US [72] ROBERTSON, TOM, US [71] STEWART & STEVENSON LLC, US [22] 2016-03-03 [41] 2016-09-09 [62] 2,978,706 [30] US (62/128,291) 2015-03-04</p> <hr/> <p style="text-align: right;">[21] 3,200,452 [13] A1</p> <p>[51] Int.Cl. B64G 1/64 (2006.01) B64G 1/10 (2006.01) F16S 5/00 (2006.01) [25] EN [54] INTERLOCKING, RECONFIGURABLE, RECONSTITUTABLE, REFORMABLE CELL-BASED SPACE SYSTEM [54] SYSTEME D'ESPACE BASE SUR DES CELLULES REFORMABLES, RECONSTITUABLES, RECONFIGURABLES, A VERROUILLAGE MUTUEL [72] HELVAJIAN, HENRY, US [72] VILLAHERMOSA, RANDY, US [71] THE AEROSPACE CORPORATION, US [22] 2018-06-14 [41] 2019-01-24 [62] 3,070,366 [30] US (15/655,972) 2017-07-21</p> |

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,200,454**
[13] A1

[51] **Int.Cl. B64G 1/10 (2006.01) B64G 1/64 (2006.01) F16S 5/00 (2006.01)**
[25] EN
[54] **INTERLOCKING, RECONFIGURABLE, RECONSTITUTABLE, REFORMABLE CELL-BASED SPACE SYSTEM**
[54] **SYSTEME D'ESPACE BASE SUR DES CELLULES REFORMABLES, RECONSTITUABLES, RECONFIGURABLES, A VERROUILLAGE MUTUEL**
[72] HELVAJIAN, HENRY, US
[72] VILLAHERMOSA, RANDY, US
[71] THE AEROSPACE CORPORATION, US
[22] 2018-06-14
[41] 2019-01-24
[62] 3,070,366
[30] US (15/655,972) 2017-07-21

[21] **3,200,468**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A61K 9/48 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **GOLD KIWIFRUIT COMPOSITIONS AND METHODS OF PREPARATION AND USE THEREFOR**
[54] **COMPOSITION A BASE DE KIWI A CHAIR JAUNE AINSI QUE SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] ANSELL, JULIET, NZ
[72] BLATCHFORD, PAUL, NZ
[71] ANAGENIX IP LIMITED, NZ
[22] 2015-11-27
[41] 2016-06-02
[62] 2,967,263
[30] NZ (702454) 2014-11-28
[30] NZ (706405) 2015-03-27

[21] **3,200,528**
[13] A1

[25] EN
[54] **ABLATION CATHETER AND ABLATION APPARATUS**
[54] **CATHETER D'ABLATION ET APPAREIL D'ABLATION**
[72] PERFLER, ENRICO, IT
[71] ELECTROPHYSIOLOGY FRONTIERS S.P.A., IT
[22] 2015-03-18
[41] 2015-09-24
[62] 2,976,749
[30] IT (MI2014A000467) 2014-03-20

[21] **3,200,532**
[13] A1

[25] EN
[54] **PROCESSES OF MAKING AND CRYSTALLINE FORMS OF A MDM2 INHIBITOR**
[54] **PROCEDES DE PRODUCTION ET FORMES CRISTALLINES D'UN INHIBITEUR MDM2**
[72] BIO, MATTHEW, US
[72] CAILLE, SEBASTIEN, US
[72] COCHRAN, BRIAN, US
[72] FANG, YUANQING, US
[72] FOX, BRIAN M., US
[72] LUCAS, BRIAN S., US
[72] MCGEE, LAWRENCE R., US
[72] VOUNATSOS, FILISATY, US
[72] WIEDEMANN, SEAN, US
[72] WORTMAN, SARAH, US
[71] AMGEN INC., US
[22] 2014-06-09
[41] 2014-12-18
[62] 3,115,609
[30] US (61/833,196) 2013-06-10

[21] **3,200,541**
[13] A1

[51] **Int.Cl. G06F 16/24 (2019.01) G06F 16/242 (2019.01) G06F 40/35 (2020.01) G06Q 40/02 (2023.01) G10L 15/26 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF GENERATING RESPONSES ASSOCIATED WITH NATURAL LANGUAGE INPUT**
[54] **SYSTEMES ET PROCEDES POUR GENERER DES REPONSES ASSOCIEES A LA SAISIE EN LANGAGE NATUREL**
[72] LOZON, MARTIN ALBERT, CA
[72] LU, TSUNG-JUNG, CA
[72] GOLDING, PERCY RICHARD, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-04-12
[41] 2020-10-12
[62] 3,040,108

[21] **3,200,542**
[13] A1

[51] **Int.Cl. C12M 3/04 (2006.01) C12N 5/07 (2010.01) C12N 5/077 (2010.01) A23L 13/00 (2016.01) A23J 3/04 (2006.01) C12M 1/22 (2006.01) C12M 3/00 (2006.01) C12N 5/00 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR PREPARING A COMESTIBLE MEAT PRODUCT**
[54] **APPAREILS ET PROCEDES DE PREPARATION D'UN PRODUIT CARNE COMESTIBLE**
[72] LEUNG, MATTHEW, US
[72] GODBOLE, ASHA, US
[72] ENGELMAYR, GEORGE C. JR, US
[72] GENOVESE, NICHOLAS J., US
[72] VALETI, UMA S., US
[72] CARSWELL, KATHLEEN, US
[71] UPSIDE FOODS, INC., US
[22] 2020-05-28
[41] 2020-12-03
[62] 3,141,870
[30] US (62/853,565) 2019-05-28

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[21] **3,200,544**
[13] A1

[25] EN
[54] **ELECTROPORATION DEVICE WITH DETACHABLE NEEDLE ARRAY WITH LOCK-OUT SYSTEM**
[54] **DISPOSITIF D'ELECTROPORATION AVEC ENSEMBLE D'AIGUILLES DETACHABLES AVEC SYSTEME DE VERROUILLAGE**
[72] CAMPILLO-AGUSTI, ALEJANDRO, US
[72] HO, EDUARDO E., US
[72] LOVELL, NATHAN, US
[72] MASTERSON, STEVEN, US
[72] STADELMANN, BEAT, US
[72] KEMMERRER, STEPHEN, US
[71] INOVIO PHARMACEUTICALS, INC., US
[22] 2016-12-30
[41] 2017-07-06
[62] 3,009,348
[30] US (62/272,758) 2015-12-30

[21] **3,200,545**
[13] A1

[51] **Int.Cl. C01B 32/182 (2017.01) C01B 32/184 (2017.01) C01B 32/196 (2017.01)**
[25] EN
[54] **GRAPHENIC CARBON NANOPARTICLES HAVING A LOW POLYAROMATIC HYDROCARBON CONCENTRATION AND PROCESSES OF MAKING SAME**
[54] **NANOPARTICULES DE CARBONE GRAPHENIQUE AYANT UNE FAIBLE CONCENTRATION EN HYDROCARBURE POLYAROMATIQUE ET LEURS PROCEDES DE FABRICATION**
[72] KROEGER, JENS, CA
[72] LAROUCHE, NICHOLAS, CA
[72] LAROUCHE, FREDERIC, CA
[72] BALMAYER, MATTHIEU, CA
[71] RAYMOR INDUSTRIES INC., CA
[22] 2018-02-08
[41] 2018-08-16
[62] 3,052,851
[30] US (62/457,472) 2017-02-10

[21] **3,200,546**
[13] A1

[51] **Int.Cl. C08L 101/00 (2006.01) B32B 27/04 (2006.01) C08J 3/02 (2006.01) C08K 3/04 (2006.01) C08K 7/14 (2006.01) C08K 7/28 (2006.01) C08L 33/14 (2006.01) C08L 67/02 (2006.01)**
[25] EN
[54] **FIBREGLOSS REINFORCED PLASTIC**
[54] **PLASTIQUE RENFORCE DE FIBRES DE VERRE**
[72] BEALE, LEWIS JOHN, AU
[71] HYDRAWALL PTY LTD, AU
[22] 2021-10-01
[41] 2022-04-02
[62] 3,132,915
[30] AU (2020903571) 2020-10-02
[30] US (63/090,848) 2020-10-13
[30] CA (3,105,263) 2021-01-07

[21] **3,200,552**
[13] A1

[51] **Int.Cl. G01C 11/04 (2006.01)**
[25] EN
[54] **METHOD TO USE A COLORED PHOTOLUMINESCENT COMPOSITION IN AGRICULTURAL APPLICATIONS**
[54] **METHODE D'UTILISATION DE COMPOSITION PHOTOLUMINESCENTE COLOREE DANS LES APPLICATIONS AGRICOLES**
[72] CAVANAUGH, KEVIN, US
[72] CARTWRIGHT, TIMOTHY B., US
[71] FLORATINE PRODUCTS GROUP, INC., US
[22] 2017-11-15
[41] 2018-05-16
[62] 2,985,591
[30] US (62/422,784) 2016-11-16

[21] **3,200,553**
[13] A1

[25] EN
[54] **APPARATUSES, SYSTEMS, AND METHODS FOR THE AUTOMATED DISPENSING OF ARTICLES**
[54] **APPAREILS, SYSTEMES ET PROCEDES POUR LA DISTRIBUTION AUTOMATISEE D'ARTICLES**
[72] GREYSHOCK, SHAWN T., US
[72] BRAUN, PATRICK JOSEPH, US
[72] PATTISON, WILLIAM B., US
[71] OMNICELL, INC., US
[22] 2018-09-05
[41] 2019-04-04
[62] 3,075,616
[30] US (15/719,671) 2017-09-29

[21] **3,200,560**
[13] A1

[51] **Int.Cl. A61M 5/14 (2006.01) A61M 5/162 (2006.01) A61M 5/168 (2006.01) A61M 39/24 (2006.01)**
[25] EN
[54] **PRIMING APPARATUS AND METHOD**
[54] **DISPOSITIF D'AMORCAGE ET SON PROCEDE D'UTILISATION**
[72] YEH, JONATHAN, US
[72] SMITH, JAKE R., US
[72] PARK, SOON Y., US
[72] NGUYEN, TAMMY, US
[71] CAREFUSION 303, INC., US
[22] 2016-04-28
[41] 2016-11-17
[62] 2,985,062
[30] US (14/712,634) 2015-05-14

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,200,589**
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) G16B 20/00 (2019.01) G16B 20/10 (2019.01) G16B 25/10 (2019.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **DETERMINING A NUCLEIC ACID SEQUENCE IMBALANCE**

[54] **DETERMINATION D'UN DESEQUILIBRE DE SEQUENCES D'ACIDE NUCLEIQUE**

[72] LO, YUK MING DENNIS, CN
[72] CHIU, ROSSA WAI KWUN, CN
[72] CHAN, KWAN CHEE, CN
[72] ZEE, BENNY CHUNG YING, CN
[72] CHONG, KA CHUN, CN
[71] THE CHINESE UNIVERSITY OF HONG KONG, CN

[22] 2008-07-23
[41] 2009-01-29
[62] 3,029,497
[30] US (60/951,438) 2007-07-23

[21] **3,200,604**
[13] A1

[25] EN
[54] **CONDITION BASED MAINTENANCE OF RAILCAR ROLLER BEARINGS USING PREDICTIVE WAYSIDE ALERTS BASED ON ACOUSTIC BEARING DETECTOR MEASUREMENTS**

[54] **ENTRETIEN DE ROULEMENTS A ROULEAUX DE WAGON FONDE SUR L'ETAT EMPLOYANT LES ALERTES PREDICTIVES DE BORDURE DE VOIE FONDEES SUR LES MESURES DE DETECTION ACOUSTIQUE DE PALIER**

[72] MULLIGAN, KYLE RYAN, CA
[71] CANADIAN PACIFIC RAILWAY COMPANY, CA

[22] 2017-08-30
[41] 2018-09-24
[62] 2,977,933
[30] US (62/476,057) 2017-03-24

[21] **3,200,616**
[13] A1

[25] EN
[54] **INTER PREDICTION METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE PREDICTION INTER-IMAGES**

[72] XU, WEIWEI, CN
[72] YANG, HAITAO, CN
[72] ZHAO, YIN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[22] 2019-09-20
[41] 2020-03-26
[62] 3,106,125
[30] CN (201811109950.2) 2018-09-21
[30] CN (PCT/CN2018/109233) 2018-10-01
[30] CN (201811303754.9) 2018-11-02

[21] **3,200,625**
[13] A1

[51] **Int.Cl. B32B 3/08 (2006.01) B32B 27/04 (2006.01)**

[25] EN
[54] **ESTABLISHING ELECTRONICS IN COMPOSITE PARTS BY LOCATING ELECTRONICS ON LAY-UP MANDRELS**

[54] **DETERMINATION DE PARTIES ELECTRONIQUES DANS DES PIECES COMPOSITES PAR LALOCALISATION DES PARTIES ELECTRONIQUES SUR DES MANDRINS DE SUPERPOSITION**

[72] FAY, MATTHEW K., US
[72] HUMFELD, KEITH D., US
[71] THE BOEING COMPANY, US

[22] 2019-10-25
[41] 2020-05-08
[62] 3,060,288
[30] US (16/184146) 2018-11-08

[21] **3,200,637**
[13] A1

[25] EN
[54] **SYSTEM AND METHOD OF PROVIDING A PARTICULAR NUMBER OF DISTRIBUTIONS OF MEDIA CONTENT THROUGH A PLURALITY OF DISTRIBUTION NODES**

[54] **SYSTEME ET PROCEDE DE FOURNITURE D'UN NOMBRE PARTICULIER DE DISTRIBUTIONS DE CONTENU MULTIMEDIA VIA UNE PLURALITE DE NOEUDS DE DISTRIBUTION**

[72] SCOTTO, ADAM MICHAEL, US
[72] KURUP, NIKHIL GOPINATH, US
[71] CATALINA MARKETING CORPORATION, US

[22] 2015-03-06
[41] 2015-09-11
[62] 2,941,488
[30] US (14/199,576) 2014-03-06

[21] **3,200,692**
[13] A1

[25] EN
[54] **CRYSTALLINE COMPOUNDS**

[54] **COMPOSES CRISTALLINS**

[72] BYMASTER, FRANKLIN, US
[72] PISKORSKI, WALTER, US
[72] FLEITZ, FRED J., US
[72] YANG, YONGLAI, US
[72] ENGERS, DAVID A., US
[72] SMOLENSKAYA, VALERIYA, US
[72] MCKINNEY, ANTHONY ALEXANDER, US
[72] KUSUKUNTLA, VENKAT, US
[71] OTSUKA AMERICA PHARMACEUTICAL, INC., US

[22] 2016-06-17
[41] 2016-12-22
[62] 2,989,431
[30] US (62/181,174) 2015-06-17

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

| [21] 3,200,698 [13] A1 | [21] 3,200,752 [13] A1 | [21] 3,200,794 [13] A1 |
|--|---|---|
| <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR OBJECT LOCALIZATION AND PATH IDENTIFICATION BASED ON RFID SENSING</p> <p>[54] SYSTEMES ET PROCEDES DE LOCALISATION D'OBJET ET D'IDENTIFICATION DE TRAJET SUR LA BASE D'UNE DETECTION D'IDENTIFICATION PAR RADIOFREQUENCE (RFID)</p> <p>[72] CRISTACHE, LUCIAN, US</p> <p>[71] LUCOMM TECHNOLOGIES, INC., US</p> <p>[22] 2014-06-19</p> <p>[41] 2014-12-24</p> <p>[62] 2,952,773</p> <p>[30] US (13/922,010) 2013-06-19</p> <p>[30] US (13/921,933) 2013-06-19</p> <p>[30] US (13/921,953) 2013-06-19</p> <p>[30] US (13/921,976) 2013-06-19</p> | <p>[25] EN</p> <p>[54] CREATING VIRTUAL NETWORKS SPANNING MULTIPLE PUBLIC CLOUDS</p> <p>[54] CREATION DE RESEAUX VIRTUELS COUVRANT DE MULTIPLES NUAGES PUBLICS</p> <p>[72] CIDON, ISRAEL, US</p> <p>[72] DAR, CHEN, US</p> <p>[72] VENUGOPAL, PRASHANTH, US</p> <p>[72] ZOHAR, EYAL, US</p> <p>[72] MARKUZE, ALEX, US</p> <p>[72] BERGMAN, ARAN, US</p> <p>[71] VMWARE, INC., US</p> <p>[22] 2018-10-01</p> <p>[41] 2019-04-11</p> <p>[62] 3,074,501</p> <p>[30] US (62/566,524) 2017-10-02</p> <p>[30] US (15/972,086) 2018-05-04</p> <p>[30] US (15/972,083) 2018-05-04</p> <p>[30] US (15/972,088) 2018-05-04</p> <p>[30] US (15/972,090) 2018-05-04</p> <p>[30] US (15/972,091) 2018-05-04</p> <p>[30] US (15/972,093) 2018-05-04</p> <p>[30] US (15/972,095) 2018-05-04</p> <p>[30] US (15/972,098) 2018-05-04</p> <p>[30] US (15/972,100) 2018-05-04</p> <p>[30] US (15/972,102) 2018-05-04</p> <p>[30] US (15/972,103) 2018-05-04</p> <p>[30] US (15/972,104) 2018-05-04</p> | <p>[25] EN</p> <p>[54] SYSTEMS AND METHODS FOR REMOTE AND HOST MONITORING COMMUNICATIONS</p> <p>[54] SYSTEMES ET PROCEDES DE COMMUNICATIONS DE SURVEILLANCE A DISTANCE ET HOTE</p> <p>[72] MAHALINGAM, AARTHI, US</p> <p>[72] CABRERA, ESTEBAN, JR., US</p> <p>[72] DATTARAY, BASAB, US</p> <p>[72] DRAEGER, RIAN, US</p> <p>[72] DUNN, LAURA, US</p> <p>[72] ESCOBAR, DEREK JAMES, US</p> <p>[72] HALL, THOMAS, US</p> <p>[72] HAMPAPURAM, HARI, US</p> <p>[72] KAMATH, APURV ULLAS, US</p> <p>[72] KOHLER, KATHERINE YERRE, US</p> <p>[72] MAYOU, PHIL, US</p> <p>[72] MENSINGER, MICHAEL ROBERT, US</p> <p>[72] MOORE, MICHAEL, US</p> <p>[72] PAL, ANDREW ATTLA, US</p> <p>[72] POLYTARIDIS, NICHOLAS, US</p> <p>[72] REIHMAN, ELI, US</p> <p>[72] SMITH, BRIAN CHRISTOPHER, US</p> <p>[72] ALTMAN, DANIEL E., US</p> <p>[71] DEXCOM, INC., US</p> <p>[22] 2016-12-13</p> <p>[41] 2017-07-06</p> <p>[62] 3,002,096</p> <p>[30] US (62/271,840) 2015-12-28</p> |
| <p>[21] 3,200,732 [13] A1</p> <p>[25] EN</p> <p>[54] ENVIRONMENTAL CONTROL AND AIR DISTRIBUTION SYSTEM AND METHOD OF USING THE SAME</p> <p>[54] SYSTEME DE CONTROLE ENVIRONNEMENTAL ET DE DISTRIBUTION D'AIR ET SON PROCEDE D'UTILISATION</p> <p>[72] POERSCHKE, ANDREW, US</p> <p>[72] BEACH, ROBERT, US</p> <p>[72] GROSOLIA, ANTHONY, US</p> <p>[71] IBACOS, INC., US</p> <p>[22] 2017-04-04</p> <p>[41] 2018-01-04</p> <p>[62] 3,029,394</p> <p>[30] US (62/355,572) 2016-06-28</p> <p>[30] US (62/471,697) 2017-03-15</p> | <p>[21] 3,200,870 [13] A1</p> <p>[25] EN</p> <p>[54] METHOTREXATE FOR PROLIFERATIVE VITREORETINOPATHY</p> <p>[54] METHOTREXATE POUR LE TRAITEMENT DE LA VITREORETINOPATHIE PROLIFERANTE</p> <p>[72] ELIOTT, DEAN, US</p> <p>[72] STRYJEWSKI, TOMASZ P., US</p> <p>[71] MASSACHUSETTS EYE AND EAR INFIRMARY, US</p> <p>[22] 2015-07-30</p> <p>[41] 2016-02-04</p> <p>[62] 2,991,921</p> <p>[30] US (62/030,778) 2014-07-30</p> | |

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,200,918**
[13] A1

[25] EN
[54] **AN ACCOMMODATING
INTRAOCULAR LENS WITH A
HAPTIC FLUID CHAMBER**
[54] **UNE LENTILLE INTRAOCULAIRE
D'ACCOMMODATION DOTÉE
D'UNE CHAMBRE DE FLUIDE
HAPTIQUE**
[72] SMILEY, TERAH WHITING, US
[72] HILDEBRAND, DANIEL, US
[72] FLAHERTY, BRYAN PATRICK, US
[71] ALCON INC., CH
[22] 2012-11-08
[41] 2013-05-16
[62] 3,106,011
[30] US (61/557,237) 2011-11-08

[21] **3,200,964**
[13] A1

[25] EN
[54] **HUMAN-HYBRID POWERTRAIN
FOR A VEHICLE OR MOVING
EQUIPMENT USING
MAGNETORHEOLOGICAL
FLUID CLUTCH APPARATUS**
[54] **GROUPE MOTOPROPULSEUR
HUMAIN-HYBRIDE POUR UN
VEHICULE OU UN EQUIPEMENT
DE DEPLACEMENT UTILISANT
UN APPAREIL D'EMBRAYAGE A
FLUIDE MAGNETO-
RHEOLOGIQUE**
[72] DENNINGER, MARC, CA
[72] JULIO, GUIFRE, CA
[72] PLANTE, JEAN-SEBASTIEN, CA
[72] LAROSE, PASCAL, CA
[71] EXONETIK INC., CA
[22] 2016-11-16
[41] 2017-05-26
[62] 3,005,359
[30] US (62/255,839) 2015-11-16
[30] US (62/358,216) 2016-07-05
[30] US (62/367,186) 2016-07-27

[21] **3,200,967**
[13] A1

[51] **Int.Cl. A61B 17/32 (2006.01) A61B
17/00 (2006.01) A61B 17/42 (2006.01)**
[25] EN
[54] **TISSUE RESECTING SYSTEMS
AND METHODS**
[54] **SYSTEMES ET PROCEDES DE
RESECTION TISSULAIRE**
[72] BEK, ROBIN, US
[72] GERMAIN, AARON, US
[71] MINERVA SURGICAL, INC., US
[22] 2014-04-24
[41] 2014-10-30
[62] 3,024,048
[30] US (61/816371) 2013-04-26

[21] **3,200,979**
[13] A1

[25] EN
[54] **LOCK DEVICES, SYSTEMS AND
METHODS**
[54] **DISPOSITIFS DE TYPE SERRURE,
SYSTEMES ET PROCEDES
ASSOCIES**
[72] NARDELLI, FRANK A., US
[72] CHEN, WU P., US
[72] TELLJOHANN, BRIAN A., US
[72] AINLEY, WILLIAM B., US
[71] SCHLAGE LOCK COMPANY LLC,
US
[22] 2013-01-30
[41] 2013-08-08
[62] 3,051,749
[30] US (61/592,358) 2012-01-30

[21] **3,200,991**
[13] A1

[25] EN
[54] **ELECTRONIC TRANSACTION
SECURITY SYSTEM AND
METHOD**
[54] **SYSTEME ET PROCEDE DE
SECURITE DE TRANSACTION
ELECTRONIQUE**
[72] SANDSTROM, RONALD W, US
[72] VASIL, PAUL E., US
[72] ZON, LUDWIK F., US
[71] MIRI SYSTEMS, LLC, US
[22] 2009-10-12
[41] 2010-04-22
[62] 2,740,407
[30] US (12/250,416) 2008-10-13

[21] **3,200,997**
[13] A1

[25] EN
[54] **SYSTEM DISCOVERY AND
SIGNALING**
[54] **DECOUVERTE ET
SIGNALISATION DE SYSTEMES**
[72] SIMON, MICHAEL J., US
[72] SHELBY, KEVIN A., US
[72] EARNSHAW, MARK, CA
[72] KANNAPPA, SANDEEP
MAVUDURU, US
[71] ONE MEDIA, LLC, US
[22] 2016-03-09
[41] 2016-09-15
[62] 3,132,119
[30] US (62/130,365) 2015-03-09

[21] **3,201,026**
[13] A1

[25] EN
[54] **PROCESSES AND
INTERMEDIATE FOR THE
LARGE-SCALE PREPARATION
OF 2,4,6-TRIFLUORO-N-[6-(1-
METHYL-PIPERIDINE-4-
CARBONYL)-PYRIDIN-2-YL]-
BENZAMIDE HEMISUCCINATE,
AND PREPARATION OF 2,4,6-
TRIFLUORO-N-[6-(1-METHYL-
PIPERIDINE-4-CARBONYL)-
PYRIDIN-2-YL]-BENZAMIDE
ACETATE**
[54]
[72] ABURUB, AKTHAM, US
[72] COATES, DAVID ANDREW, US
[72] FRANK, SCOTT ALAN, US
[72] KERR, MARK STEVEN, US
[72] ROTHHAAR, ROGER RYAN, US
[71] ELI LILLY AND COMPANY, US
[22] 2020-07-06
[41] 2021-01-14
[62] 3,146,129
[30] US (62/871,965) 2019-07-09

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[21] **3,201,034**
[13] A1

[25] EN
[54] **SIDING OR ROOFING PANEL SYSTEM**
[54] **SYSTEME DE PANNEAUX DE PAREMENT OU DE TOITURE**
[72] MARTIN, JEFFREY B., US
[72] PARKS, JAMES C., US
[72] JACKSON, MATTHEW, US
[72] KRUYER, RICHARD C., US
[72] MAURER, MICHAEL W., US
[72] FRANKLIN, DANIEL B., US
[71] WESTLAKE ROYAL BUILDING PRODUCTS INC., US
[22] 2016-01-12
[41] 2016-07-19
[62] 2,917,387
[30] US (62/104,978) 2015-01-19
[30] US (14/991,250) 2016-01-08

[21] **3,201,041**
[13] A1

[25] EN
[54] **SYSTEM DISCOVERY AND SIGNALING**
[54] **DECOUVERTE ET SIGNALISATION DE SYSTEMES**
[72] SIMON, MICHAEL J., US
[72] SHELBY, KEVIN A., US
[72] EARNSHAW, MARK, CA
[72] KANNAPPA, SANDEEP MAVUDURU, US
[71] ONE MEDIA, LLC, US
[22] 2016-03-09
[41] 2016-09-15
[62] 3,132,119
[30] US (62/130,365) 2015-03-09

[21] **3,201,053**
[13] A1

[25] EN
[54] **METHOD AND APPARATUS FOR FORMING FINAL-SHAPED CONTAINERS USING LIQUID TO BE CONTAINED THEREIN**
[54] **PROCEDE ET APPAREIL POUR DONNER UNE FORME FINALE A DES CONTENANTS EN UTILISANT UN LIQUIDE DEVANT ETRE CONTENU DANS LESDITS CONTENANTS**
[72] BECK, CHRISTOPHE, FR
[72] WITZ, JEAN-CHRISTOPHE, FR
[72] RASCHE, SEBASTIAN, DE
[71] HUSKY INJECTION MOLDING SYSTEMS LTD., CA
[22] 2018-12-28
[41] 2019-07-18
[62] 3,088,197
[30] US (62/616,014) 2018-01-11

[21] **3,201,065**
[13] A1

[25] EN
[54] **LAMINATE FACED HONEYCOMB BRACING STRUCTURE FOR STRINGED INSTRUMENT**
[54] **STRUCTURE DE BARRAGE EN NID D'ABEILLE A FACE STRATIFIEE POUR INSTRUMENT A CORDES**
[72] SEAL, ELLIS C., US
[71] MCP IP, LLC, US
[22] 2014-10-16
[41] 2015-04-23
[62] 2,920,291
[30] US (14/055,534) 2013-10-16

[21] **3,201,072**
[13] A1

[25] EN
[54] **ENHANCEMENT OF THE IMMUNE RESPONSE**
[54] **RENFORCEMENT DE LA REPONSE IMMUNITAIRE**
[72] BLUMBERG, RICHARD S., US
[72] HUANG, YU-HWA, US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC, US
[22] 2013-10-11
[41] 2014-04-17
[62] 2,887,528
[30] US (61/713,203) 2012-10-12

[21] **3,201,079**
[13] A1

[51] **Int.Cl. A01K 67/033 (2006.01) A01K 1/00 (2006.01) B65G 49/00 (2006.01) F25B 29/00 (2006.01)**
[25] EN
[54] **PRODUCTION LINE WITH FLOW-THROUGH FEED HEATING AND/OR COOLING SYSTEM AND HEATED SURFACE FOR BREEDING INSECTS, METHOD FOR BREEDING INSECTS AND USES THEREOF**
[54] **LIGNE DE PRODUCTION AVEC SYSTEME DE CHAUFFAGE ET/OU DE REFROIDISSEMENT DE NOURRITURE A ECOULEMENT CONTINU ET SURFACE CHAUFFEE POUR L'ELEVAGE D'INSECTES, PROCEDE D'ELEVAGE D'INSECTES ET UTILISATIONS ASSOCIEES**
[72] JOZEFIAK, DAMIAN, PL
[72] DUDEK, KRZYSZTOF, PL
[72] LUBIK, PIOTR, PL
[71] HIPROMINE S.A., PL
[22] 2021-07-05
[41] 2021-11-25
[62] 3,164,820
[30] PL (P.435063) 2020-08-24

[21] **3,201,083**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR OFF-AXIS TISSUE MANIPULATION**
[54] **SYSTEMES ET METHODES DE MANIPULATION DESAXEE DE TISSU**
[72] BROCKMAN, CHRISTOPHER SCOTT, US
[72] HARSHMAN, GABRIEL JAMES, US
[71] STRYKER CORPORATION, US
[22] 2013-06-20
[41] 2013-12-27
[62] 2,876,673
[30] US (61/662,223) 2012-06-20

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demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,201,084**
[13] A1

[25] EN
[54] **SPLIT PISTON METERING PUMP**
[54] **POMPE DOSEUSE A PISTON FENDU**
[72] FOCHT, KENNETH, US
[72] GORDON, JOSEPH, US
[72] PERRY, MATTHEW J., US
[72] FISK, JUSTIN, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2015-03-24
[41] 2015-10-18
[62] 2,885,687
[30] US (14/256,365) 2014-04-18

[21] **3,201,087**
[13] A1

[25] EN
[54] **SCENTED DRAWSTRING BAG**
[54] **SAC A CORDON PARFUME**
[72] COBLER, BRAD A., US
[71] POLY-AMERICA, L.P., US
[22] 2017-06-09
[41] 2017-12-21
[62] 2,970,008
[30] US (15/187,914) 2016-06-21

[21] **3,201,111**
[13] A1

[25] EN
[54] **ISOLATING DECOUPLER**
[54] **DECOUPLEUR ISOLANT**
[72] SERKH, ALEXANDER, US
[72] MORA, ANTHONY R., US
[72] RAHDAR, ESSIE, US
[71] GATES CORPORATION, US
[22] 2019-07-18
[41] 2020-01-23
[62] 3,106,911
[30] US (16/040,751) 2018-07-20

[21] **3,201,145**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C07K 14/82 (2006.01)**
[25] EN
[54] **C-MYC ANTISENSE OLIGONUCLEOTIDES AND METHODS FOR USING THE SAME TO TREAT CELL-PROLIFERATIVE DISORDERS**
[54] **OLIGONUCLEOTIDES ANTISENS C-MYC ET SES PROCEDES D'UTILISATION POUR LE TRAITEMENT DE TROUBLES DE LA PROLIFERATION CELLULAIRE**
[72] GRYAZNOV, SERGEI M., US
[72] ZIELINSKA, DARIA, US
[72] PRUZAN, RONALD A., US
[72] LINDQUIST, JEFFREY N., US
[71] GERON CORPORATION, US
[22] 2013-10-25
[41] 2014-05-01
[62] 2,887,702
[30] US (61/719,348) 2012-10-26
[30] US (13/829,594) 2013-03-14
[30] US (61/784,910) 2013-03-14

[21] **3,201,147**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR GENERATING AND PROVIDING PROGRAM GUIDES AND CONTENT**
[54] **PROCEDES ET SYSTEMES POUR GENERER ET FOURNIR DES GUIDES DE PROGRAMMES ET UN CONTENU**
[72] HOU, CHAN V., US
[72] RYAN, THOMAS V., US
[72] POZIN, ILYA, US
[72] BUCHENROTH, MATTHEW BRIAN, US
[72] HALE, THOMAS EDWARD, US
[72] SHANSON, SPENCER, US
[72] LITTRELL, KELLY RYAN, US
[72] GHOSH, INDIRA, US
[71] PLUTO INC., US
[22] 2017-06-29
[41] 2018-01-11
[62] 3,029,798
[30] US (62/358,444) 2016-07-05
[30] US (15/635,764) 2017-06-28
[30] US (15/635,630) 2017-06-28

[21] **3,201,162**
[13] A1

[25] EN
[54] **CIRCUIT BREAKER PANEL BOARD INCLUDING ILLUMINATION UNIT**
[54] **PLAQUE DE PANNEAU DISJONCTEUR MUNIE D'UNE UNITE D'ECLAIRAGE**
[72] RICCIUTI, ANTHONY THOMAS, US
[72] FOGLE, THOMAS K., US
[72] FELLO, JOE P., US
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2016-05-13
[41] 2016-11-17
[62] 2,985,361
[30] US (14/710,781) 2015-05-13

[21] **3,201,163**
[13] A1

[25] EN
[54] **HUMAN MONOCLONAL ANTIBODIES TO PROGRAMMED DEATH LIGAND 1 (PD-L1)**
[54] **ANTICORPS MONOCLONAUX HUMAINS DIRIGES CONTRE UN LIGAND DE MORT PROGRAMMEE DE TYPE 1(PD-L1)**
[72] KORMAN, ALAN, US
[72] SELBY, MARK J., US
[72] WANG, CHANGYU, US
[72] SRINIVASAN, MOHAN, US
[72] PASSMORE, DAVID B., US
[72] HUANG, HAICHUN, US
[72] CHEN, HAIBIN, US
[71] E. R. SQUIBB & SONS, L.L.C., US
[22] 2006-06-30
[41] 2007-01-11
[62] 3,018,525
[30] US (60/696426) 2005-07-01

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|--|--|---|
| [21] 3,201,165 [13] A1 | [21] 3,201,179 [13] A1 | [21] 3,201,563 [13] A1 |
| <p>[25] EN</p> <p>[54] MODULAR BUILDING UNITS, AND METHODS OF CONSTRUCTING AND TRANSPORTING SAME</p> <p>[54] UNITES DE BATIMENT MODULAIRES ET LEURS PROCEDES DE CONSTRUCTION ET DE TRANSPORT</p> <p>[72] BOWRON, JULIAN, US</p> <p>[72] GULLIFORD, JOHN, US</p> <p>[72] CHURCHILL, ERIK, US</p> <p>[72] CERONE, JOHN, US</p> <p>[72] MALLIE, JONATHAN, US</p> <p>[71] Z-MODULAR HOLDING, INC., US</p> <p>[22] 2014-02-18</p> <p>[41] 2014-08-28</p> <p>[62] 2,901,755</p> <p>[30] US (61/768,328) 2013-02-22</p> <p>[30] US (61/837,451) 2013-06-20</p> <p>[30] US (61/935,992) 2014-02-05</p> | <p>[25] EN</p> <p>[54] LOW TEMPERATURE ELECTRONIC VAPORIZATION DEVICE AND METHODS</p> <p>[54] DISPOSITIF DE VAPORISATION ELECTRONIQUE BASSE TEMPERATURE ET PROCEDES ASSOCIES</p> <p>[72] MONSEES, JAMES, US</p> <p>[72] BOWEN, ADAM, US</p> <p>[72] MYALL, PATRICK, US</p> <p>[72] HUNTER, KRISTA, US</p> <p>[71] JUUL LABS, INC., US</p> <p>[22] 2012-08-16</p> <p>[41] 2013-02-21</p> <p>[62] 3,132,352</p> <p>[30] US (61/524,308) 2011-08-16</p> | <p>[51] Int.Cl. G02B 27/01 (2006.01) G02B 30/20 (2020.01) G02B 5/18 (2006.01)</p> <p>[25] EN</p> <p>[54] VIRTUAL AND AUGMENTED REALITY SYSTEMS AND METHODS HAVING IMPROVED DIFFRACTIVE GRATING STRUCTURES</p> <p>[54] SYSTEMES ET PROCEDES DE REALITE VIRTUELLE ET AUGMENTEE AYANT DES STRUCTURES DE RESEAU DE DIFFRACTION AMELIOREES</p> <p>[72] TEKOLSTE, ROBERT D., US</p> <p>[72] KLUG, MICHAEL A., US</p> <p>[72] GRECO, PAUL M., US</p> <p>[72] SCHOWENGERDT, BRIAN T., US</p> <p>[71] MAGIC LEAP, INC., US</p> <p>[22] 2016-01-26</p> <p>[41] 2016-08-04</p> <p>[62] 2,975,234</p> <p>[30] US (62/107,977) 2015-01-26</p> |
| [21] 3,201,166 [13] A1 | [21] 3,201,279 [13] A1 | |
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| KNIESEL, SIMON | 2,993,408 | LE ROUX, KARINE | 2,970,707 | LIU, MEILIN | 3,185,740 |
| KOBILKA, BRIAN | 2,936,728 | LEAHY, RONAN PATRICK | 3,126,261 | LIU, QING SONG | 3,130,471 |
| KOCHER-PLASTIK | | LEBERT, JOCHEN | 3,030,471 | LIU, QING WANG | 3,130,471 |
| MASCHINENBAU GMBH | 3,014,492 | LEDoux, FRANCOIS | 2,994,225 | LIU, YUNFENG | 2,995,720 |
| KOELING, HENDRIK | | LEE, CURTIS | 2,935,160 | LOCHBIHLER, HANS | 2,951,330 |
| CORNELIS | 3,131,397 | LEE, HOWARD M. | 3,067,232 | LOCKARD, RICKY | 3,035,369 |
| KOELZER, ROBERT L. | 3,024,391 | LEE, JEHYUK | 2,859,761 | LORD, GARFIELD R. | 2,965,001 |
| KOGLER, MARKUS | 2,972,158 | LEE, JOHN JONG-SUK | 2,980,903 | LOTZ, JOSEF | 2,904,304 |
| KOMURO, MASAYASU | 3,133,219 | LEE, JONG SOO | 2,917,838 | LOUIE, STAN G. | 2,953,064 |
| KONDI, SUSHANTH A. | 3,100,948 | LEE, JONG SOO | 2,944,138 | LOWE'S COMPANIES, INC. | 3,099,748 |
| KONDO, YOSHIFUSA | 3,078,175 | LEE, KEVIN | 3,022,470 | LOWER, MARC | 3,082,151 |
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| KORNBERG, ROGER | 3,098,079 | LENG, DERONG | 3,090,198 | LUBRIZOL ADVANCED | |
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| KOSCIELSKI, LARRY FRANK | 3,120,649 | LEONARDO S.P.A. | 2,987,224 | LUBRIZOL ADVANCED | |
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| ANDERSON, DONALD | 3,141,750 | CHIASSON, STEPHANE | 3,141,913 | DOWELL, SHANI | 3,184,035 |
| ANDRINGA, JEREMY | 3,185,016 | CHRISTENSEN, CHRISTINA N. | 3,185,247 | DU, ZHEKANG | 3,164,505 |
| ANTHONY, INC. | 3,150,495 | CHUANG, CHI-MING | 3,151,599 | DU, ZHEKANG | 3,164,508 |
| ANTHONY, INC. | 3,150,502 | CLAIRVOYANCE TECH INC | 3,149,485 | DUBE-SEXTON, SIMON | 3,141,966 |
| ANTHONY, INC. | 3,150,511 | CLOUTIER, YVES | 3,182,965 | DUBE-SEXTON, SIMON | 3,185,705 |
| APOTEX INC. | 3,141,320 | CNH INDUSTRIAL CANADA, | | DUCHESNE, CHRISTIAN | 3,171,074 |
| ARMITAGE, GRAHAM M. | 3,141,175 | LTD. | 3,182,279 | DURAFUSE FRAMES, LLC | 3,183,281 |
| ARMITAGE, GRAHAM MARK | 3,183,092 | COLEMAN, TIM | 3,179,740 | DURANLEAU-HENDRICKX, | |
| ARNAUD, MATHIEU | 3,183,715 | COMTE INDUSTRIES LIMITED | 3,141,087 | LOUIS | 3,172,342 |
| ARNAUD, MATHIEU | 3,183,726 | COMTE INDUSTRIES LIMITED | 3,199,061 | DUSHARM, KEITH | 3,185,048 |
| ASS-NBG GMBH | 3,184,936 | COMTE, ALAIN GERALD | 3,141,087 | DWP INDUSTRIES LLC | 3,183,068 |
| BAKHUIS, WILLEM | 3,179,516 | COMTE, ALAIN GERALD | 3,199,061 | EADON, GEOFFREY MARK | 3,148,268 |
| BAMBOO DYNAMICS | | CORDELIA LIGHTING INC. | 3,182,815 | EBERHARTER, JOHANNES | |
| CORPORATION., LTD. | 3,151,599 | CORNET, JEROME | | KARL | 3,183,019 |
| BATFER INVESTMENT S.A. | 3,163,208 | BERTRAND NICOLAS | 3,183,442 | EDDYFI CANADA INC. | 3,183,583 |
| BAUDRY, BENJAMIN | 3,183,715 | COSTIN, SIMONA O. | 3,183,353 | EISWERTH, ETHAN D. | 3,183,666 |
| BAUDRY, BENJAMIN | 3,183,726 | COWAN, ELIOT JULIEN | 3,185,157 | EKONA POWER INC. | 3,179,740 |
| BAUGH, DAVID BRIGGS | 3,150,495 | COWAN, ELIOT JULIEN | 3,185,162 | EMBARK TRUCKS INC. | 3,179,206 |
| BAUGH, DAVID BRIGGS | 3,150,502 | COWAN, ELIOT JULIEN | 3,185,163 | EMBARK TRUCKS INC. | 3,179,212 |
| BAUGH, DAVID BRIGGS | 3,150,511 | COXON, ALEXANDER | 3,185,023 | EVONIK OPERATIONS GMBH | 3,183,265 |
| BEEPATH, KEVIN | 3,184,051 | CRONIN, ZACH | 3,184,631 | FAKIH, SAJEDA SARVAR | 3,141,357 |
| BELANGER, ERIC | 3,171,074 | CROWHURST, SARAH | 3,141,218 | FARISH, STEVEN | 3,185,048 |
| BENESH, MICHAEL T. | 3,184,631 | CRYSTAL, DANIEL | 3,169,559 | FENKHUBER, JACK WILLIAM | 3,141,256 |
| BENTON, ROBERT E., JR | 3,183,666 | CUI, DONGYING | 3,183,772 | FENKHUBER, JACK WILLIAM | 3,183,698 |
| BISSELL, DONALD J. | 3,184,631 | D'ACCOLTI, ANTHONY V. | 3,184,664 | FENTON, PATRICK C. | 3,152,125 |
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| INDUSTRIAL | | DANFOSS POWER | | FINDLEY, RANDY | 3,185,048 |
| NETWORKING SECURITY | | SOLUTIONS (JIANGSU) | | FINK, TAYLOR K. | 3,183,353 |
| LTD. | 3,151,598 | CO., LTD. | 3,164,505 | FIXLER, TAMAS | 3,182,837 |
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| BLOOM ENERGY | | SOLUTIONS (JIANGSU) | | FRIDABABY, LLC | 3,142,647 |
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| BLOOM, DENNIS | 3,183,008 | DANFOSS POWER | | GAPLAST GMBH | 3,182,498 |
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| BROWN, DAVID A. | 3,152,125 | DANFOSS POWER | | GE PRECISION HEALTHCARE | |
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| KHATIWADA, RAJU | 3,183,517 | MESSER, RUSSELL | 3,183,546 | RISCHE, DANIEL | 3,183,459 |
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| | | MEYN FOOD PROCESSING TECHNOLOGY B.V. | 3,183,008 | RODRIGUEZ, ADRIAN | 3,150,502 |
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| SABALDAN ELPEDES, JERRY | | TAFUNI, DOMENICO | 3,176,623 | ZURN INDUSTRIES, LLC | 3,184,631 |
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| GLEN | 3,179,157 | TERRY, JEFFREY | | | |
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| SANDNES, MARK | 3,150,502 | THALES | 3,183,715 | | |
| SANDNES, MARK | 3,150,511 | THALES | 3,183,726 | | |
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| SINGH MADHOK, KULBIR | 3,171,074 | WEINGAERTNER, DAVID | 3,185,109 | | |
| SINGH, SUDEEP | 3,183,353 | WENZEL, SETH | 3,184,631 | | |
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| STEWART, NATHAN | 3,178,689 | XIE, QINGGANG | 3,183,772 | | |
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| SERRURIER, DOUGLAS C | 3,198,280 | SIEGEL, STEPHAN | 3,201,333 | SOCRA SCIENCES ET GENIE | |
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| SERVER PRODUCTS, INC. | 3,201,468 | SIGNODE INDUSTRIAL | | SOMANI, SUKRUT | 3,198,538 |
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| LINDQUIST, JEFFREY N. | 3,201,145 | PRUZAN, RONALD A. | 3,201,145 | VILLAHERMOSA, RANDY | 3,200,452 |
| LITRELL, KELLY RYAN | 3,201,147 | PUVVADI, SUDHAKAR RAO | 3,200,347 | VILLAHERMOSA, RANDY | 3,200,454 |
| LO, YUK MING DENNIS | 3,200,589 | QIAN, JUN | 3,200,347 | VIRGIN, HERBERT | 3,200,425 |
| LOVELL, NATHAN | 3,200,544 | RAHDAR, ESSIE | 3,201,111 | VMWARE, INC. | 3,200,752 |
| LOZON, MARTIN ALBERT | 3,200,541 | RAMAKRISHNAN, RAKESH | 3,200,347 | VON HEIFNER, CHRISTIAN | 3,201,166 |
| LU, TSUNG-JUNG | 3,200,541 | RASCHE, SEBASTIAN | 3,201,053 | VOUNATSOS, FILISATY | 3,200,532 |
| LUBIK, PIOTR | 3,201,079 | RAYMOR INDUSTRIES INC. | 3,200,545 | WANG, CHANGYU | 3,201,163 |
| LUCAS, BRIAN S. | 3,200,532 | REDJDAL, MAKHLOUF | 3,200,272 | WASHINGTON UNIVERSITY | 3,200,425 |
| LUCOMM TECHNOLOGIES, INC. | 3,200,698 | REIHMAN, ELI | 3,200,794 | WESTLAKE ROYAL | |
| MAGIC LEAP, INC. | 3,201,563 | RICCIUTI, ANTHONY | | BUILDING PRODUCTS | |
| MAHALINGAM, AARTHI | 3,200,794 | THOMAS | 3,201,162 | INC. | 3,201,034 |
| MALLIE, JONATHAN | 3,201,165 | RICHTMAN, NINA | 3,200,166 | WIEDEMANN, SEAN | 3,200,532 |
| MARCELPOIL, RAPHAEL | | ROBERTSON, TOM | 3,200,448 | WILES, TIMOTHY | 3,200,284 |
| RODOLPHE | 3,200,284 | ROTHHAAR, ROGER RYAN | 3,201,026 | WITZ, JEAN-CHRISTOPHE | 3,201,053 |
| MARKUZE, ALEX | 3,200,752 | RYAN, THOMAS V. | 3,201,147 | WORTMAN, SARAH | 3,200,532 |
| MARTIN, JEFFREY B. | 3,201,034 | SANDSTROM, RONALD W | 3,200,991 | WROBEL, GREGORY | 3,200,272 |
| MASSACHUSETTS EYE AND EAR INFIRMARY | 3,200,870 | SCHLAGE LOCK COMPANY LLC | 3,200,979 | XU, WEIWEI | 3,200,616 |
| MASTERSON, STEVEN | 3,200,544 | SCHOWENGERDT, BRIAN T. | 3,201,563 | YANG, HAITAO | 3,200,616 |
| MAURER, MICHAEL W. | 3,201,034 | SCOTTO, ADAM MICHAEL | 3,200,637 | YANG, YONGLAI | 3,200,692 |
| MAYOU, PHIL | 3,200,794 | SEAL, ELLIS C. | 3,201,065 | YEH, JONATHAN | 3,200,560 |
| MCGEE, LAWRENCE R. | 3,200,532 | SERLBY, MARK J. | 3,201,163 | Z-MODULAR HOLDING, INC. | 3,201,165 |
| MCKINNEY, ANTHONY ALEXANDER | 3,200,692 | SERKH, ALEXANDER | 3,201,111 | ZARANDIOON, SAMAN | 3,200,347 |
| MCP IP, LLC | 3,201,065 | SHANSON, SPENCER | 3,201,147 | ZEE, BENNY CHUNG YING | 3,200,589 |
| MENSINGER, MICHAEL ROBERT | 3,200,794 | SHEDLOSKY, ALYSSA | 3,200,284 | ZHAO, YIN | 3,200,616 |
| MINERVA SURGICAL, INC. | 3,200,967 | SHELBY, KEVIN A. | 3,200,997 | ZHENG, TIANMING | 3,200,347 |
| MIRI SYSTEMS, LLC | 3,200,991 | SHELBY, KEVIN A. | 3,201,041 | ZHUO, DONGHUI | 3,200,347 |
| MONSEES, JAMES | 3,201,179 | SHINDLEDECKER, SCOTT | 3,200,284 | ZIELINSKA, DARIA | 3,201,145 |
| MOORE, MICHAEL | 3,200,794 | SIMON, MICHAEL J. | 3,200,997 | ZOHAR, EYAL | 3,200,752 |
| MORA, ANTHONY R. | 3,201,111 | SIMON, MICHAEL J. | 3,201,041 | ZON, LUDWIK F. | 3,200,991 |
| MOSINGO, ROBBIE | 3,201,279 | SKEVINGTON, EDWARD | 3,200,284 | | |
| MULLIGAN, KYLE RYAN | 3,200,604 | SMILEY, TERAH WHITING | 3,200,918 | | |
| MYALL, PATRICK | 3,201,179 | SMITH, BRIAN CHRISTOPHER | 3,200,794 | | |
| NARDELLI, FRANK A. | 3,200,979 | SMITH, JAKE R. | 3,200,560 | | |
| NGUYEN, TAMMY | 3,200,560 | SMITH, KERRY LYNN | 3,200,284 | | |
| OMNICELL, INC. | 3,200,553 | SMOLENSKAYA, VALERIYA | 3,200,692 | | |
| ONE MEDIA, LLC | 3,200,997 | SRINIVASAN, MOHAN | 3,201,163 | | |
| ONE MEDIA, LLC | 3,201,041 | STADELMANN, BEAT | 3,200,544 | | |
| OTSUKA AMERICA PHARMACEUTICAL, INC. | 3,200,692 | STEELE, ROBERT MATTHIAS | 3,200,347 | | |
| PAL, ANDREW ATTILA | 3,200,794 | STEWART & STEVENSON LLC | 3,200,448 | | |
| PARK, SOON Y. | 3,200,560 | STRYJEWski, TOMASZ P. | 3,200,870 | | |
| PARKS, JAMES C. | 3,201,034 | STRYKER CORPORATION | 3,201,083 | | |
| | | TECTUM HOLDINGS, INC. | 3,201,279 | | |
| | | TEKOLSTE, ROBERT D. | 3,201,563 | | |
| | | TELLJOHANN, BRIAN A. | 3,200,979 | | |