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THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

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

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

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

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

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Notices

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

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

Code Numerals

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

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

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

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

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

Dates

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

Chiffres de code

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

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

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

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

2. Country Code

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

2. Code des pays

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

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

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

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

6. Licensing of Patents

Voluntary Licences

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

Compulsory Licences

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

7. Patents Available for Licence or Sale

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

8. List of Patents Available for Licence or Sale

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

None

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Octroi de licences en vertu des brevets

Licences librement accordées

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

Licences obligatoires

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

7. Brevets disponibles pour licence ou vente

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

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

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

Aucun

9. Applications Open to Public Inspection

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

10. Language of Published Documents

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

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

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

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

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

9. Demandes mises à la disponibilité du public

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

10. Langue du document publié

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

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

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

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

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

Notices

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

4. Late payment fee

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

Preliminary Examination

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

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

* International fees will be reduced by:

- \$295 for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- \$442 for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

12. PCT Notices

Patent Cooperation Treaty (PCT)

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

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

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

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

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

4. Taxe pour paiement tardif

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

Examen préliminaire

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

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

* Les frais seront réduits de:

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

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

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Offices.

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

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

14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:

http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled [Correspondence Procedures](#), available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html>

Publication date: May 10, 2017

Amendment date: June 17, 2019

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(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce*.

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :

http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé [Procédures de correspondance](#), consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :

<https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html>

Date de publication : 10 mai 2017

Date de modification : 17 juin 2019

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Electronic Correspondence

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

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

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

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

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

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

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

2. Correspondance électronique

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

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

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

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

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

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open for business.

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

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Patents

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

2.2 Online

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

Patents

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

Trademarks

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

Brevets

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

2.2 En ligne

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

Brevets

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

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

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

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

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

Marques de commerce

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

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accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

Copyright

:

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

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

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

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

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

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

Droits d'auteur

Notices

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

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

Industrial Designs

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

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

Integrated Circuit Topographies

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

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

2.3 Electronic medium

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

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

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

Dessins industriels

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

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

Topographies de circuits intégrés

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

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

Trademarks

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

Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Marques de commerce

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

Dessins industriels

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

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

Notices

4. General Information

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

5. Time Period Extensions

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

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

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

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

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

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

4. Renseignements généraux

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

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 May 30, 2023 contains applications open to public inspection from May 14, 2023 to May 20, 2023.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 30 mai 2023 contient les demandes disponibles au public pour consultation pour la période du 14 mai 2023 au 20 mai 2023.

Canadian Patents Issued

May 30, 2023

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[11] **2,888,064**
[13] C

[51] **Int.Cl. C12Q 1/02 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **PREDICTING HUMAN DEVELOPMENTAL TOXICITY OF PHARMACEUTICALS USING HUMAN STEM-LIKE CELLS AND METABOLOMIC RATIOS**

[54] **PREDICTION DE LA TOXICITE DEVELOPPEMENTALE HUMAINE DE PRODUITS PHARMACEUTIQUES A L'AIDE DE CELLULES HUMAINES DE TYPE SOUCHE ET DES RAPPORTS METABOLOMIQUES**

[72] SMITH, ALAN, US

[72] WEST, PAUL, US

[72] PALMER, JESSICA, US

[73] STEMINA BIOMARKER DISCOVERY, INC., US

[85] 2015-04-13

[86] 2013-11-01 (PCT/US2013/067980)

[87] (WO2014/071137)

[30] US (61/721,746) 2012-11-02

[30] US (61/827,407) 2013-05-24

[11] **2,912,617**
[13] C

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

[25] EN

[54] **GUTTER GUARD WITH EMBOSSEMENTS**

[54] **PROTEGE-GOUTTIERE DOTE DE BOSSAGES**

[72] BROCHU, STEPHANE, CA

[73] BROCHU, STEPHANE, CA

[86] (2912617)

[87] (2912617)

[22] 2015-11-20

[30] CA (2,902,519) 2015-08-27

[30] CA (2,907,280) 2015-10-05

[11] **2,916,509**
[13] C

[51] **Int.Cl. G06Q 10/0637 (2023.01) G06Q 10/0639 (2023.01) G06F 17/18 (2006.01)**

[25] EN

[54] **CONTROL APPARATUS FOR INDUSTRIAL PLANT DATA PROCESSING AND ASSOCIATED METHODS**

[54] **APPAREIL DE COMMANDE DESTINE AU TRAITEMENT DE DONNEES D'UNE USINE ET METHODES ASSOCIEES**

[72] CAMERON, MICHAEL WILLIAM, CA

[72] JALBERT, DANIEL JOSEPH, CA

[73] NL FISHER SUPERVISION & ENGINEERING LTD., CA

[86] (2916509)

[87] (2916509)

[22] 2015-12-30

[11] **2,943,076**
[13] C

[51] **Int.Cl. G02B 6/44 (2006.01)**

[25] EN

[54] **JACKET FOR A FIBER OPTIC CABLE**

[54] **GAINE POUR CABLE A FIBRE OPTIQUE**

[72] BRINGUIER, ANNE GERMAINE, US

[72] MCALPINE, WARREN WELBORN, US

[72] WILLIAMSON, BRANDON ROBERT, US

[73] CORNING OPTICAL COMMUNICATIONS LLC, US

[85] 2016-09-16

[86] 2015-03-12 (PCT/US2015/020121)

[87] (WO2015/142608)

[30] US (61/954,831) 2014-03-18

[11] **3,083,027**
[13] C

[51] **Int.Cl. A61M 37/00 (2006.01) A61B 5/15 (2006.01) A61B 18/00 (2006.01) A61B 18/20 (2006.01) A61H 39/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR SKIN STABILIZATION AND POSITIONING**

[54] **PROCEDE ET APPAREIL POUR POSITIONNEMENT ET STABILISATION DE LA PEAU**

[72] MANSTEIN, DIETER, US

[73] THE GENERAL HOSPITAL CORPORATION, US

[86] (3083027)

[87] (3083027)

[22] 2010-10-22

[62] 3,018,297

[30] US (61/254,061) 2009-10-22

[11] **3,099,239**
[13] C

[51] **Int.Cl. B64C 33/00 (2006.01) B60F 5/02 (2006.01) B64C 33/02 (2006.01) B64C 35/00 (2006.01)**

[25] FR

[54] **FLYING VEHICLE**

[54] **VEHICULE QUI VOLE**

[72] NADON, GILLES, CA

[73] NADON, GILLES, CA

[86] (3099239)

[87] (3099239)

[22] 2020-11-15

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[11] **3,108,120**

[13] C

[51] **Int.Cl. F16K 17/04 (2006.01)**

[25] EN

[54] **VALVE DISCS FOR USE WITH
FLUID VALVES**

[54] **DISQUES DE SOUPAPE DESTINES
A ETRE UTILISES AVEC DES
SOUPAPES A FLUIDE**

[72] FORBES, MATTHEW DOUGLAS, US

[72] SHARPE, CURTIS LAMAR, US

[73] EMERSON VULCAN HOLDING
LLC, US

[85] 2021-01-28

[86] 2019-08-14 (PCT/US2019/046446)

[87] (WO2020/037017)

[30] US (16/104,576) 2018-08-17

[11] **3,148,896**

[13] C

[51] **Int.Cl. C10G 1/06 (2006.01) C10G
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[25] EN

[54] **HYDROLYSIS OF BIOMASS-
CONTAINING FEEDSTOCKS**

[54] **HYDROLYSE DE CHARGES
D'ALIMENTATION CONTENANT
DES BIOMASSES**

[72] FELIX, LARRY G., US

[72] LINCK, MARTIN B., US

[72] MARKER, TERRY L., US

[72] ROBERTS, MICHAEL J., US

[73] GAS TECHNOLOGY INSTITUTE, US

[86] (3148896)

[87] (3148896)

[22] 2015-06-29

[62] 3,095,387

[30] US (14/321,147) 2014-07-01

[11] **3,154,326**

[13] C

[51] **Int.Cl. C02F 1/28 (2006.01) C02F 1/52
(2006.01) C02F 1/66 (2006.01) C02F
1/72 (2006.01)**

[25] EN

[54] **A PROCESS FOR TREATING ACID
MINE DRAINAGE**

[54] **PROCEDE POUR LE
TRAITEMENT DE DRAINAGE
MINIER ACIDE**

[72] MAMBA, BHEKIE BRILLIANCE, ZA

[72] KEFENI, KEBEDE KETEREW, ZA

[73] UNIVERSITY OF SOUTH AFRICA,
ZA

[85] 2022-03-11

[86] 2020-09-14 (PCT/IB2020/058510)

[87] (WO2021/048827)

[30] ZA (2019/06052) 2019-09-13

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May 14, 2023 to May 20, 2023

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14 mai 2023 au 20 mai 2023

[21] **3,138,345**
[13] A1

[51] **Int.Cl. B29C 65/10 (2006.01)**
[25] EN
[54] **WELDER FOR THERMOPLASTICS**
[54] **SOUDEUSE A THERMOPLASTIQUES**
[72] MACKELVIE, WINSTON R., CA
[71] MACKELVIE, WINSTON R., CA
[22] 2021-11-18
[41] 2023-05-18

[21] **3,138,583**
[13] A1

[51] **Int.Cl. A63B 57/00 (2015.01)**
[25] EN
[54] **MULTI-USE GOLF DEVICE**
[54] **DISPOSITIF DE GOLF POLYVALENT**
[72] INGRAM, CHRISTOPHER R., CA
[71] INGRAM, CHRISTOPHER R., CA
[22] 2021-11-15
[41] 2023-05-15

[21] **3,139,138**
[13] A1

[51] **Int.Cl. E02D 27/32 (2006.01) A01G 5/04 (2006.01) E02D 27/48 (2006.01) E04H 13/00 (2006.01)**
[25] EN
[54] **FOUNDATION SUPPORT FOR GRAVE MARKERS**
[54] **SUPPORT DE FONDATION POUR LES REPERES DE TOMBE**
[72] SCOTT, ROY W., US
[72] CHARRON, JEAN-PIERRE, CA
[72] CHARRON, MICHEL, CA
[72] VAILLANCOURT, REJEAN, CA
[71] IOWAT GROUP INC., CA
[22] 2021-11-15
[41] 2023-05-15

[21] **3,139,146**
[13] A1

[51] **Int.Cl. A63B 69/00 (2006.01) A61B 5/103 (2006.01) A63B 69/36 (2006.01) A63B 71/06 (2006.01)**
[25] EN
[54] **SELECTION OF A SPORTS CLUB, RACKET OR BAT USING GROUND PRESSURE FORCES APPLIED BY THE PLAYER IN A STROKE**
[54] **SELECTION DE BATON, DE RAQUETTE OU DE BATTE DE SPORT UTILISANT DES FORCES DE PRESSION AU SOL APPLIQUEES PAR LE JOUEUR EN UN COUP**
[72] HASHIMOTO, TERRY GLEN, CA
[71] LANTZ, ROBERT BRODIE, CA
[71] HASHIMOTO, TERRY GLEN, CA
[22] 2021-11-15
[41] 2023-05-15

[21] **3,139,213**
[13] A1

[51] **Int.Cl. C10G 21/28 (2006.01) C10G 1/04 (2006.01)**
[25] EN
[54] **SHED DECK FOR A TAILINGS SOLVENT RECOVERY UNIT AND PROCESSES FOR SEPARATING SOLVENT FROM SOLVENT DILUTED TAILINGS**
[54] **PLATEAU A REDANS POUR UNE UNITE DE RECUPERATION DE SOLVANT DE RESIDUS ET PROCEDES POUR SEPARER LE SOLVANT DES RESIDUS DILUES PAR SOLVANT**
[72] GUPTA, SIDDHARTH, CA
[72] JIANG, FAN, CA
[72] SERATE, DUANE, CA
[72] VAN DER MERWE, SHAWN, CA
[71] FORT HILLS ENERGY L.P., CA
[22] 2021-11-16
[41] 2023-05-16

[21] **3,139,230**
[13] A1

[51] **Int.Cl. B65D 88/12 (2006.01) B65D 90/20 (2006.01) E04H 6/02 (2006.01)**
[25] EN
[54] **EXPANDABLE VEHICLE CONTAINER**
[54] **CONTENANT EXPANSIBLE DE VEHICULE**
[72] VREUGDENHIL, JOHN, CA
[71] 1332006 ALBERTA INC., CA
[22] 2021-11-16
[41] 2023-05-16

[21] **3,139,262**
[13] A1

[51] **Int.Cl. A61L 27/14 (2006.01) A61L 27/52 (2006.01)**
[25] EN
[54] **POLYMER-BASED GEL IMPLANT FOR RETINAL THERAPY AND METHODS OF MAKING AND USING THE SAME**
[54] **IMPLANT DE GEL POLYMERE POUR LA THERAPIE RETINIENNE ET METHODES DE FABRICATION ET D'UTILISATION**
[72] DILEO, MORGAN, US
[72] BYRNE, LEAH, US
[72] SAHEL, JOSE-ALAIN, US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[22] 2021-11-16
[41] 2023-05-16

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14 mai 2023 au 20 mai 2023**

[21] **3,139,286**
[13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G16H 10/20 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TARGETING PEOPLE FOR PARTICIPATION IN CLINICAL TRIALS**
[54] **METHODE ET APPAREIL POUR CIBLER DES PERSONNES AUX FINS DE PARTICIPATION A DES ESSAIS CLINIQUES**
[72] JOSHI, NIKHIL, CA
[71] MEDICAL MEDITATION CORPORATION, CA
[22] 2021-11-16
[41] 2023-05-16

[21] **3,139,296**
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6841 (2018.01) G16B 15/10 (2019.01) G16B 25/00 (2019.01)**
[25] EN
[54] **METHODS OF ASSESSING SMOLDERING MULTIPLE MYELOMA**
[54] **METHODES D'EVALUATION DU MYELOME MULTIPLE LATENT**
[72] MAI, SABINE, CA
[72] LOUIS, SHERIF, CA
[72] KNECHT, HANS, CA
[71] TELO GENOMICS HOLDINGS CORP., CA
[22] 2021-11-16
[41] 2023-05-16

[21] **3,139,366**
[13] A1

[51] **Int.Cl. A47J 31/00 (2006.01) A23F 3/00 (2006.01) A47J 43/27 (2006.01) A23F 3/16 (2006.01)**
[25] EN
[54] **METHOD OF MAKING A TEA BEVERAGE**
[54] **METHODE DE FABRICATION D'UN BREUVAGE DE THE**
[72] HASTINGS, AVERY DAUNE, CA
[72] HASTINGS, DONNA LEE, CA
[71] BONSAI CHA INC., CA
[22] 2021-11-17
[41] 2023-05-17

[21] **3,139,382**
[13] A1

[51] **Int.Cl. G06Q 50/10 (2012.01)**
[25] EN
[54] **SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR DISPENSING DIGITAL BUSINESS CONCIERGE SERVICES**
[54] **SYSTEME, METHODE ET PROGRAMME INFORMATIQUE POUR DISTRIBUER DES SERVICES DE CONCIERGERIE D'ENTREPRISE NUMERIQUES**
[72] FORMAN, DANIEL, CA
[71] 7960786 CANADA INC., CA
[22] 2021-11-18
[41] 2023-05-18

[21] **3,139,395**
[13] A1

[51] **Int.Cl. E04H 3/02 (2006.01) A47F 10/00 (2006.01) B60P 3/025 (2006.01) B65D 88/22 (2006.01) E04H 3/24 (2006.01)**
[25] EN
[54] **SECURE AND MOBILE RETAIL STRUCTURE**
[54] **STRUCTURE DE DETAIL SECURISEE ET MOBILE**
[72] MURPHY, AARON, CA
[71] MURPHY, AARON, CA
[22] 2021-11-18
[41] 2023-05-18

[21] **3,139,396**
[13] A1

[51] **Int.Cl. B66C 1/16 (2006.01)**
[25] EN
[54] **MODULAR SPREAD BAR DEVICE WITH STIFFENING TRUSS**
[54] **DISPOSITIF DE BARRE D'ECARTEMENT MODULAIRE AVEC FERME DE RAIDISSEMENT**
[72] MARSHALL, JOSEPH T., CA
[71] MARSHALL, JOSEPH T., CA
[22] 2021-11-18
[41] 2023-05-18

[21] **3,139,399**
[13] A1

[51] **Int.Cl. B29C 65/10 (2006.01)**
[25] EN
[54] **PLANAR JET WELDER**
[54] **SOUDEUSE A JET PLANE**
[72] MACKELVIE, WINSTON R., CA
[71] MACKELVIE, WINSTON R., CA
[22] 2021-11-16
[41] 2023-05-16

[21] **3,139,412**
[13] A1

[51] **Int.Cl. D01F 11/00 (2006.01) A41D 31/04 (2019.01) D03D 15/527 (2021.01) A41D 7/00 (2006.01) D02J 3/00 (2006.01) D06M 23/00 (2006.01)**
[25] EN
[54] **NON-ABSORBENT FABRIC**
[54] **TISSU NON ABSORBANT**
[72] LESLIE, ANDREW, CA
[71] LESLIE, ANDREW, CA
[22] 2021-11-18
[41] 2023-05-18

[21] **3,139,419**
[13] A1

[51] **Int.Cl. E03C 1/044 (2006.01) E03C 1/04 (2006.01) F16K 11/00 (2006.01) F16K 31/02 (2006.01)**
[25] EN
[54] **HOT AND COLD OUTDOOR FAUCET SYSTEM**
[54] **SYSTEME DE ROBINET EXTERIEUR CHAUD-FROID**
[72] OFFREY, MURRAY, CA
[71] OFFREY, MURRAY, CA
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[21] **3,139,426**
[13] A1

[51] **Int.Cl. A63F 7/00 (2006.01) A63F 7/06 (2006.01)**
[25] EN
[54] **MAGNETICALLY OPERATED TABLE GAME**
[54] **JEU DE TABLE MAGNETIQUE**
[72] TRINACTY, DAVID, CA
[71] TRINACTY, DAVID, CA
[22] 2021-11-18
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[21] **3,139,437**
[13] A1

[51] **Int.Cl. C07C 45/80 (2006.01)**
[25] EN
[54] **INDUSTRIAL SECRETS OF L-EPHEDRINE PRODUCTION**
[54] **SECRETS INDUSTRIELS DE PRODUCTION DE L-EPHEDRINE**
[72] BILY, JONATHAN, CA
[71] BILY, JONATHAN, CA
[22] 2021-11-18
[41] 2023-05-18

[21] **3,139,454**
[13] A1

[51] **Int.Cl. G09F 17/00 (2006.01) E01F 9/00 (2016.01)**
[25] EN
[54] **SAFETY FLAG DEVICE**
[54] **DISPOSITIF DE DRAPEAU DE SECURITE**
[72] TUTTLE, DAVID DARRIN, CA
[71] TUTTLE, DAVID DARRIN, CA
[22] 2021-11-17
[41] 2023-05-17

[21] **3,139,457**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/185 (2006.01) A61K 31/519 (2006.01) A61K 31/54 (2006.01) A61P 17/00 (2006.01) A61P 37/06 (2006.01) C07C 309/04 (2006.01) C07C 309/05 (2006.01) C07C 309/35 (2006.01) C07D 291/06 (2006.01)**
[25] EN
[54] **NOVEL SALTS OF RUXOLITINIB AND CRYSTALLINE FORMS THEREOF**
[54] **NOUVEAUX SELS DE RUXOLITINIB ET FORMES CRISTALLINES CONNEXES**
[72] SOUZA, FABIO E. S., CA
[72] STIRK, ALEXANDER J., CA
[72] KARADEOLIAN, AVEDIS, CA
[72] REY, ALLAN W., CA
[71] APOTEX INC., CA
[22] 2021-11-19
[41] 2023-05-19

[21] **3,139,463**
[13] A1

[51] **Int.Cl. B25G 3/26 (2006.01) B25G 3/12 (2006.01)**
[25] EN
[54] **CLEANING TOOL**
[54] **OUTIL DE NETTOYAGE**
[72] CHEN, CHIA-CHENG, CN
[71] JIASHAN MASTER TOP INT'L INC., CN
[22] 2021-11-18
[41] 2023-05-18

[21] **3,139,474**
[13] A1

[51] **Int.Cl. F42B 14/06 (2006.01)**
[25] EN
[54] **BULLET BUSHING**
[54] **DOUILLE DE BALLE**
[72] JOHNSON, JAYSON, CA
[71] JOHNSON, JAYSON, CA
[22] 2021-11-19
[41] 2023-05-19

[21] **3,139,475**
[13] A1

[51] **Int.Cl. F42B 14/06 (2006.01)**
[25] EN
[54] **BULLET BUSHING**
[54] **DOUILLE DE BALLE**
[72] JOHNSON, JAYSON, CA
[71] JOHNSON, JAYSON, CA
[22] 2021-11-19
[41] 2023-05-19

[21] **3,139,479**
[13] A1

[51] **Int.Cl. B60L 53/67 (2019.01) B60L 53/68 (2019.01) H04L 69/18 (2022.01) H02J 7/00 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE CHARGER COMMUNICAITONS AND CONTROL**
[54] **COMMUNICATIONS ET COMMANDE DE CHARGEUR DE VEHICULE ELECTRIQUE**
[72] EL-BATAWY, SHADY, CA
[71] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES CANADA, CA
[71] HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF NATURAL RESOURCES CANADA, CA
[22] 2021-11-19
[41] 2023-05-19

[21] **3,139,483**
[13] A1

[51] **Int.Cl. F16M 13/04 (2006.01)**
[25] EN
[54] **GYROSCUP - A GYROSCOPE BASED BEVERAGE STABILIZER**
[54] **GYROSCUP ~ STABILISATEUR DE BREUVAGE A BASE DE GYROSCOPE**
[72] DUCHESNEAU, MARTIN, CA
[71] DUCHESNEAU, MARTIN, CA
[22] 2021-11-19
[41] 2023-05-19

Demandes canadiennes mises à la disponibilité du public
14 mai 2023 au 20 mai 2023

[21] **3,139,549**
[13] A1

[51] **Int.Cl. C08L 75/06 (2006.01) C08J 3/18 (2006.01) C08J 3/20 (2006.01) C08J 9/00 (2006.01) C08K 5/11 (2006.01) C08K 5/17 (2006.01)**

[25] EN

[54] **POLYURETHANE ELASTOMER COMPOSITIONS, ARTICLES OF MANUFACTURE COMPRISING SAME, AND PROCESSES**

[54] **COMPOSITIONS ELASTOMERES DE POLYURETHANNE, ARTICLES DE FABRICATION LES COMPRENANT ET PROCEDES**

[72] ROBINSON, JASON JAMES, CA

[72] GHALIA, MUSTAFA ABU, CA

[72] HUSAINIE, SYED MUHAMMAD, CA

[71] EVOCO LIMITED, CA

[22] 2021-11-17

[41] 2023-05-17

[21] **3,140,585**
[13] A1

[51] **Int.Cl. B65G 69/30 (2006.01) B60P 1/43 (2006.01) B60P 1/52 (2006.01)**

[25] EN

[54] **VEHICLE BED LOADING RAMP SYSTEMS**

[54] **SYSTEMES DE RAMPE DE CHARGEMENT DE CAISSE DE VEHICULE**

[72] TANGE, ANDREW, US

[71] TANGE, ANDREW, US

[22] 2021-11-20

[41] 2023-05-17

[30] US (63/264,229) 2021-11-17

[21] **3,141,006**
[13] A1

[51] **Int.Cl. A01K 97/01 (2006.01) B60P 3/345 (2006.01) E04H 1/12 (2006.01) E04H 15/06 (2006.01)**

[25] EN

[54] **MULTI-HINGED FISHING SHELTER**

[54] **ABRI DE PECHE A MULTIPLES CHARNIERES**

[72] GIRARD, MARK TIMOTHY, US

[71] GIRARD, MARK TIMOTHY, US

[22] 2021-12-02

[41] 2023-05-16

[30] US (63280027) 2021-11-16

[21] **3,141,213**
[13] A1

[51] **Int.Cl. C02F 1/469 (2006.01) B01D 61/54 (2006.01)**

[25] EN

[54] **PRESSURE BALANCING SYSTEM FOR TWO SIDES OF AN EDR FILM STACK**

[54] **SYSTEME D'EQUILIBRAGE DE PRESSION POUR DEUX COTES D'UN EMPILEMENT DE FILMS D'EPURATEUR D'EAU A ELECTRODIALYSE INVERSE**

[72] DING, ALLEN, CN

[72] HAN, XIAO-LYU, CN

[72] FAN, EDISON, CN

[71] KEMFLO (NANJING) ENVIRONMENTAL TECHNOLOGY CO., LTD., CN

[71] KEMFLO INTERNATIONAL CO., LTD., TW

[71] LIN, CHING-HSIUNG, TW

[22] 2021-12-07

[41] 2023-05-17

[30] CN (202111363292.1) 2021-11-17

[21] **3,141,946**
[13] A1

[51] **Int.Cl. B27K 3/22 (2006.01) B27K 3/08 (2006.01)**

[25] EN

[54] **A METHOD FOR TREATING A WOOD SUBSTRATE**

[54] **METHODE DE TRAITEMENT D'UN SUBSTRAT DE BOIS**

[72] ZHANG, JUN, US

[72] THAM, PETER, US

[72] WILSON, CRAIG, CA

[71] KOPPERS PERFORMANCE CHEMICALS, INC., US

[22] 2021-12-13

[41] 2023-05-15

[30] US (17/526,526) 2021-11-15

[21] **3,143,391**
[13] A1

[51] **Int.Cl. G06F 3/04842 (2022.01) G06F 3/0481 (2022.01) G06F 8/61 (2018.01) G06F 9/451 (2018.01) G07F 19/00 (2006.01)**

[25] EN

[54] **GRAPHICAL USER INTERFACE FOR CENTRALIZED REGISTER DEVICE MANAGEMENT AND MONITORING**

[54] **INTERFACE UTILISATEUR GRAPHIQUE POUR LA GESTION ET LA SURVEILLANCE CENTRALISEES DE DISPOSITIFS DE REGISTRE**

[72] BERI, ALEC, US

[72] SHETH, ASHAY, US

[72] TORKELSON, JOSHUA, US

[72] RAFFERTY, KYLE, US

[72] KATZ, MICHAEL, US

[72] LOUIE, MICHAEL KEN, US

[72] KODUKULA, NAGINI, US

[72] ZIMMERMAN, STEFAN, US

[72] YOUNG, STEPHEN, US

[72] JAYAN, SURANYA, US

[72] PILATO, TYLER, US

[72] POLSKY, ZACHARY, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2021-12-20

[41] 2023-05-17

[30] US (17/455,319) 2021-11-17

[21] **3,145,090**
[13] A1

[51] **Int.Cl. B60R 13/00 (2006.01) B60Q 1/26 (2006.01) B60Q 9/00 (2006.01) B60R 11/04 (2006.01)**

[25] EN

[54] **AUTOMOBILE ACCESSORY LIGHT FIXTURE MITIGATING RF EMISSIONS**

[54] **ACCESSOIRE D'ECLAIRAGE AUTOMOBILE ATTENUANT LES EMISSIONS DE RADIOFREQUENCE**

[72] TIAN, XIAO JUN, US

[72] SCHRAMM, CONNER, US

[72] ELWELL, JAMES P., US

[72] THOMPSON, MATTHEW, US

[72] HOOGENDOORN, SETH, US

[72] FREEMAN, PARKER, US

[71] PUTCO, INC., US

[22] 2022-01-07

[41] 2023-05-16

[30] US (17/455154) 2021-11-16

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[21] **3,145,119**
[13] A1

[51] **Int.Cl. F21S 41/19 (2018.01) F21K 9/00 (2016.01) F21S 41/141 (2018.01) F21S 41/155 (2018.01) F21S 45/47 (2018.01) F21S 45/50 (2018.01) H05B 45/20 (2020.01)**

[25] EN

[54] **REPLACEMENT VEHICLE LIGHTING APPARATUS**

[54] **APPAREIL D'ECLAIRAGE DE VEHICULE DE RECHANGE**

[72] SCHRAMM, CONNER, US
[72] FREEMAN, PARKER, US
[72] HOOGENDOORN, SETH, US
[72] NIEMEYER, NICHOLAS, US
[72] ADAIR, PAUL THOMAS, US
[72] ELWELL, JAMES P., US
[71] PUTCO, INC., US
[22] 2022-01-07
[41] 2023-05-19
[30] US (17/455,740) 2021-11-19

[21] **3,146,119**
[13] A1

[51] **Int.Cl. D21D 1/20 (2006.01)**

[25] EN

[54] **REFINER**

[54] **RAFFINEUR**

[72] GOTO, MAKOTO, JP
[72] SUZUKI, MAKOTO, JP
[71] AIKAWA IRON WORKS CO., LTD., JP
[22] 2022-01-19
[41] 2023-05-15
[30] JP (2021-185514) 2021-11-15

[21] **3,148,959**
[13] A1

[51] **Int.Cl. B65D 5/20 (2006.01)**

[25] EN

[54] **ONE PIECE CONTAINER WITH INTERNAL CORNER SUPPORTS**

[54] **CONTENANT MONOBLOC COMPRENANT DES SUPPORTS DE COIN INTERNES**

[72] LITTLE, TROY M., US
[72] DECELLO, THOMAS E., US
[71] YORK CONTAINER COMPANY, US
[22] 2022-02-15
[41] 2023-05-15
[30] US (17/526,672) 2021-11-15

[21] **3,153,144**
[13] A1

[51] **Int.Cl. B27B 29/08 (2006.01)**

[25] EN

[54] **LOG SUPPORT ASSEMBLY FOR A SAWMILL**

[54] **ASSEMBLAGE DE SUPPORT DE BILLE POUR UNE SCIERIE**

[72] MALCOLM, JOSHUA J., CA
[72] BRAMLEY, NEIL K., CA
[72] DOHERTY, JEFFREY F., CA
[71] WOODLAND MILLS INC., CA
[22] 2022-03-23
[41] 2023-05-17

[21] **3,154,873**
[13] A1

[51] **Int.Cl. B23Q 1/25 (2006.01) B23C 1/04 (2006.01) B23C 3/13 (2006.01) B23C 9/00 (2006.01) B27B 3/38 (2006.01)**

[25] EN

[54] **GUIDE DRESSER, CUTTER HEADS AND METHODS OF USE THEREOF**

[54] **DRESSE-MEULE A GUIDE, TETES DE COUPE ET METHODES D'UTILISATION**

[72] STROUD, GARY, CA
[72] BERGERON, VINCENT, CA
[71] INTERNAL MACHINERY SOLUTIONS LTD., CA
[22] 2021-11-18
[41] 2023-05-17
[62] 3,139,420
[30] US (17/528,804) 2021-11-17

[21] **3,154,878**
[13] A1

[51] **Int.Cl. B23Q 1/25 (2006.01) B23C 1/04 (2006.01) B23C 3/13 (2006.01) B23C 9/00 (2006.01) B27B 3/38 (2006.01)**

[25] EN

[54] **GUIDE DRESSER, CUTTER HEADS AND METHODS OF USE THEREOF**

[54] **DRESSE-MEULE A GUIDE, TETES DE COUPE ET METHODES D'UTILISATION**

[72] STROUD, GARY, CA
[72] BERGERON, VINCENT, CA
[71] INTERNAL MACHINERY SOLUTIONS LTD., CA
[22] 2021-11-18
[41] 2023-05-17
[62] 3,139,420
[30] US (17/528,804) 2021-11-17

[21] **3,170,094**
[13] A1

[51] **Int.Cl. G06V 20/52 (2022.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR DETECTING INVENTORY ANOMALIES USING CAMERAS**

[54] **METHODE ET SYSTEME DE DETECTION D'ANOMALIES DE STOCKS AU MOYEN DE CAMERAS**

[72] MOYNE, WILLIAM, CA
[72] CACIOPPO, CHRISTOPHER, CA
[72] NIKITPOULOS, DIMITRIOS, CA
[71] 6 RIVER SYSTEMS, LLC, US
[22] 2022-08-09
[41] 2023-05-17
[30] US (17/529,259) 2021-11-17

[21] **3,174,598**
[13] A1

[25] EN

[54] **MACHINE AND PROCESS TO DESIGN, VALIDATE, AND/OR TEST A FLUID SYSTEM**

[54] **MACHINE ET PROCEDE DE CONCEPTION, DE VALIDATION ET/OU D'ESSAI D'UN SYSTEME DE FLUIDE**

[72] CHAO, ALEX W., US
[72] DUONG, THANH P., US
[72] KEYEK-FRANSSSEN, NATHANIEL, US
[72] MAH, ROLAND E., US
[72] NEMETH, KEVIN A., US
[72] PORTILLO, ALBERT, US
[71] THE BOEING COMPANY, US
[22] 2022-09-16
[41] 2023-05-16
[30] US (17/455028) 2021-11-16

[21] **3,175,362**
[13] A1

[51] **Int.Cl. F04D 29/42 (2006.01) F01D 9/02 (2006.01) F02C 3/04 (2006.01)**

[25] EN

[54] **COMPRESSOR SHROUD WITH SWEEPED GROOVES**

[54] **CARENAGE DE COMPRESSEUR A RAINURES BALAYEES**

[72] SHI, FENG, CA
[72] NICHOLS, JASON, CA
[72] YU, HONG, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-09-16
[41] 2023-05-17
[30] US (17/528,323) 2021-11-17

Demandes canadiennes mises à la disponibilité du public
14 mai 2023 au 20 mai 2023

[21] **3,175,835**
[13] A1

[51] **Int.Cl. B01D 43/00 (2006.01) B01D 3/06 (2006.01) C10G 1/04 (2006.01) C10G 53/04 (2006.01)**

[25] EN

[54] **REPAIR SLEEVE FOR TSRU SHED DECK AND METHODS OF WEAR PROTECTION**

[54] **MANCHON DE REPARATION POUR UN PLATEAU A REDANS D'UNE UNITE DE RECUPERATION DE SOLVANT ET METHODES DE PROTECTION CONTRE L'USURE**

[72] GUPTA, SIDDHARTH, CA

[72] JIANG, FAN, CA

[72] SERATE, DUANE, CA

[72] VAN DER MERWE, GRAEME, CA

[72] LUESICK, JEFF, CA

[72] VAN DONGEN, GRAHAM, CA

[71] FORT HILLS ENERGY L.P., CA

[22] 2022-09-23

[41] 2023-05-16

[30] CA (3,139,213) 2021-11-16

[21] **3,175,954**
[13] A1

[51] **Int.Cl. H01M 10/6553 (2014.01) H01M 10/617 (2014.01) H01M 10/6554 (2014.01) H01M 50/502 (2021.01) B64D 41/00 (2006.01) F28D 15/02 (2006.01)**

[25] EN

[54] **BATTERY MODULE WITH HEAT PIPES**

[54] **MODULE DE BATTERIE COMPRENANT DES CALODUCS**

[72] FREER, RICHARD, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2022-09-19

[41] 2023-05-18

[30] US (17/455,624) 2021-11-18

[21] **3,175,958**
[13] A1

[51] **Int.Cl. B23Q 17/20 (2006.01) B23P 15/14 (2006.01) F16D 1/06 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURING A PART OF AN AIRCRAFT ENGINE**

[54] **METHODE DE FABRICATION D'UNE PIECE D'UN MOTEUR D'AERONEF**

[72] GUIASSA, RACHID, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2022-09-19

[41] 2023-05-19

[30] US (17/530,685) 2021-11-19

[21] **3,178,424**
[13] A1

[51] **Int.Cl. E05D 3/06 (2006.01) E05D 3/16 (2006.01) E05D 7/04 (2006.01)**

[25] EN

[54] **DOOR HINGE**

[54] **CHARNIERE DE PORTE**

[72] LIERMANN, NICOLAS, DE

[71] SIMONSWERK GMBH, DE

[22] 2022-10-05

[41] 2023-05-16

[30] DE (10 2021 129 914.4) 2021-11-16

[21] **3,178,480**
[13] A1

[51] **Int.Cl. B22F 3/16 (2006.01) B33Y 70/00 (2020.01) B29C 64/153 (2017.01) B22F 5/12 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR HIGH STRENGTH TITANIUM ROD ADDITIVE MANUFACTURING**

[54] **SYSTEMES ET METHODES POUR UNE FABRICATION ADDITIVE D'UNE TIGE DE TITANE TRES RESISTANTE**

[72] HAYNES, NOEL C., CA

[72] ALLEN, JASON BRADLEY, US

[71] GOODRICH CORPORATION, US

[22] 2022-10-04

[41] 2023-05-17

[30] US (17/528,999) 2021-11-17

[21] **3,178,818**
[13] A1

[25] EN

[54] **DALI LINE-FAILURE-BASED DRIVER DIMMING MODE DETECTION VIA LOAD POWER MEASUREMENT**

[54] **DETECTION DE MODE DE GRADATION DE MOTEUR FONDEE SUR UNE DEFAILLANCE DE LA LIGNE D'INTERFACE NUMERIQUE D'ECLAIRAGE ADRESSABLE (DALI) AU MOYEN DE LA MESURE DE LA PUISSANCE DE SORTIE UTILE**

[72] REZEANU, STEFAN-CRISTIAN, US

[72] BURT, JAMES ROBERT, US

[72] MIKANI, VASKE, US

[71] ABL IP HOLDING, LLC, US

[22] 2022-10-11

[41] 2023-05-19

[30] US (17/531,126) 2021-11-19

[21] **3,179,425**
[13] A1

[51] **Int.Cl. F16L 37/30 (2006.01) F16L 37/36 (2006.01) F16L 59/16 (2006.01) F16L 59/18 (2006.01)**

[25] EN

[54] **COUPLING DEVICE AND METHOD**

[54] **DISPOSITIF DE RACCORD ET PROCEDE**

[72] COLEIRO, GAETAN, FR

[72] PENNEC, YAN, FR

[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[22] 2022-10-20

[41] 2023-05-15

[30] FR (2112048) 2021-11-15

[21] **3,179,451**
[13] A1

[51] **Int.Cl. A47K 3/02 (2006.01) E05D 7/00 (2006.01)**

[25] EN

[54] **BATHTUB DOOR HINGE ASSEMBLY AND METHOD**

[54] **ASSEMBLAGE DE CHARNIERE DE PORTE DE BAIN ET METHODE**

[72] OLIVER, DANIEL, US

[71] OLIVER, DANIEL, US

[22] 2022-10-20

[41] 2023-05-19

[30] US (63/281,372) 2021-11-19

**Canadian Applications Open to Public Inspection
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[21] **3,179,631**
[13] A1

[51] **Int.Cl. C01B 3/48 (2006.01) C01B 3/34 (2006.01) C01B 3/50 (2006.01) C10L 3/00 (2006.01)**

[25] EN
[54] **APPARATUS AND METHOD FOR PRODUCING SYNTHESIS GAS**
[54] **APPAREIL ET METHODE DE PRODUCTION D'UN GAZ DE SYNTHESE**

[72] KEMP, TERRY, CA
[72] MAO, QUN, CA
[71] FOUNDATION RENEWABLE CARBON INC., CA

[22] 2022-10-21
[41] 2023-05-19
[30] US (63/281,428) 2021-11-19

[21] **3,179,827**
[13] A1

[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/24 (2006.01) A01C 7/08 (2006.01)**

[25] EN
[54] **A SEEDING ROW UNIT HAVING A PRIMARY ACTUATOR TO ADJUST DEPTH AND TO RAISE AND LOWER THE SEEDING ROW UNIT**
[54] **RAYONNEUR DE SEMOIR COMPRENANT UN ACTIONNEUR PRINCIPAL POUR AJUSTER LA PROFONDEUR POUR LEVER ET ABAISSER LE RAYONNEUR**

[72] DHOBAL, DNYANESH, IN
[72] GARNER, ELIJAH B., US
[72] NATARAJAN, KAMALAKANNAN, IN

[71] DEERE & COMPANY, US

[22] 2022-10-25
[41] 2023-05-15
[30] US (17/526,267) 2021-11-15

[21] **3,179,942**
[13] A1

[51] **Int.Cl. G06F 21/32 (2013.01) G06N 20/00 (2019.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR TRAINING A MACHINE LEARNING MODEL AND AUTHENTICATING A USER WITH THE MODEL**
[54] **METHODES ET SYSTEMES POUR ENTRAÎNER UN MODELE D'APPRENTISSAGE AUTOMATIQUE ET AUTHENTIFIÉ UN UTILISATEUR AU MOYEN DU MODELE**

[72] BLOUET, RAPHAEL, ES
[72] MANTECON, ANA, ES
[71] DAON ENTERPRISES LIMITED, MT

[22] 2022-10-27
[41] 2023-05-18
[30] US (17/529,344) 2021-11-18

[21] **3,180,025**
[13] A1

[51] **Int.Cl. F16B 21/16 (2006.01)**

[25] EN
[54] **COUPLING DEVICE**
[54] **DISPOSITIF DE RACCORD**

[72] CLARKE, ALEXANDER RICHARD, GB

[71] L3HARRIS RELEASE & INTEGRATED SOLUTIONS LTD, GB

[22] 2022-10-26
[41] 2023-05-16
[30] GB (GB2116850.5) 2021-11-16

[21] **3,180,237**
[13] A1

[51] **Int.Cl. C07C 7/09 (2006.01) C07C 7/04 (2006.01) C10L 3/10 (2006.01)**

[25] EN
[54] **GAS PROCESSING METHODOLOGY UTILIZING REFLUX AND ADDITIONALLY SYNTHESIZED STREAM OPTIMIZATION**
[54] **METHODE DE TRAITEMENT DE GAZ UTILISANT LE REFLUX ET EGALEMENT UNE OPTIMISATION DE FLUX SYNTHETISE**

[72] MACKENZIE, STUART, CA
[72] GRYNIA, EUGENIUSZ, CA
[72] MACKENZIE, KELLY, CA
[71] GAS LIQUIDS ENGINEERING LTD, CA

[22] 2022-10-27
[41] 2023-05-18
[30] US (17/745,965) 2022-05-17

[21] **3,180,240**
[13] A1

[51] **Int.Cl. B64C 9/02 (2006.01) B64C 3/38 (2006.01) B64C 13/34 (2006.01)**

[25] EN
[54] **ATTACHMENT FOR ROTARY ACTUATOR**
[54] **ACCESSOIRE POUR UN ACTIONNEUR ROTATIF**

[72] HARRISON, COLIN R., GB
[72] DARBY, JONATHAN, GB
[71] GOODRICH ACTUATION SYSTEMS LIMITED, GB

[22] 2022-10-27
[41] 2023-05-16
[30] EP (21275158.0) 2021-11-16

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[21] **3,180,427**
[13] A1

[51] **Int.Cl. G06T 13/00 (2011.01) G06N 3/0455 (2023.01)**
[25] EN
[54] **SYNTHESIZING SEQUENCES OF 3D GEOMETRIES FOR MOVEMENT-BASED PERFORMANCE**
[54] **SEQUENCES DE SYNTHÈSE DE GEOMETRIES 3D POUR UN RENDEMENT AXE SUR LE MOUVEMENT**
[72] BRADLEY, DEREK EDWARD, US
[72] CHANDRAN PRASHANTH, US
[72] URNAU GOTARDO, PAULO FABIANO, US
[72] ZOSS, GASPARD, US
[71] DISNEY ENTERPRISES, INC., US
[71] ETH ZURICH (EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZURICH), CH
[22] 2022-10-28
[41] 2023-05-15
[30] US (17/526,608) 2021-11-15

[21] **3,180,460**
[13] A1

[51] **Int.Cl. F04B 53/16 (2006.01) F04B 53/22 (2006.01)**
[25] EN
[54] **RETAINER NUT ASSEMBLY FOR PUMP AND METHODS**
[54] **ASSEMBLAGE D'ECROU DE RETENUE POUR UNE POMPE ET METHODES**
[72] PEER, RICHARD D., US
[71] SPM OIL & GAS INC., US
[22] 2022-10-31
[41] 2023-05-19
[30] US (17/531019) 2021-11-19

[21] **3,180,500**
[13] A1

[25] EN
[54] **PORTABLE POWER SUPPLY DEVICE FOR AN ELECTRIC TOOL**
[54] **DISPOSITIF D'ALIMENTATION PORTATIF POUR UN OUTIL ELECTRIQUE**
[72] LEE, WAI CHUNG, CN
[72] YANG, SHAO KANG, CN
[72] PAN, ZHENG QIAN, CN
[71] TECHTRONIC CORDLESS GP, US
[22] 2022-10-31
[41] 2023-05-18
[30] CN (202111370840.3) 2021-11-18

[21] **3,180,506**
[13] A1

[51] **Int.Cl. E02F 3/38 (2006.01) B66F 17/00 (2006.01) E02F 9/08 (2006.01) E02F 9/24 (2006.01) F16P 1/00 (2006.01)**
[25] EN
[54] **COMPACT ACTUATED SHEAR PIN**
[54] **GOUPILLE DE CISAILLEMENT ACTIONNEE COMPACTE**
[72] ALBERS, RILEY A., US
[72] WORTH, DAVID M., US
[71] CATERPILLAR UNDERGROUND MINING PTY. LTD., AU
[22] 2022-10-31
[41] 2023-05-19
[30] US (17/531493) 2021-11-19

[21] **3,180,515**
[13] A1

[25] EN
[54] **OPTIMIZED OPERATION PLAN FOR A POWER SYSTEM**
[54] **PLAN D'OPERATION OPTIMISE POUR UN BLOC D'ALIMENTATION**
[72] ZHANG, YANCHAI, US
[72] HUSSAIN, SYED AMEENUDDIN, US
[72] DENG, BAOYANG, US
[72] CAI, ZHIJUN, US
[72] BEYENE, SHIFERAW, US
[72] OTTEN, CASEY ALAN, US
[72] CONVERSE, PERRY D., US
[72] WIERSEMA, THEODORE E., US
[72] SNOPKO, MICHAEL A., US
[71] CATERPILLAR, INC., US
[22] 2022-10-31
[41] 2023-05-19
[30] US (17/455,865) 2021-11-19

[21] **3,180,733**
[13] A1

[51] **Int.Cl. E05D 3/02 (2006.01) E05D 5/02 (2006.01) E05D 7/04 (2006.01)**
[25] EN
[54] **DOOR HINGE WITH ELONGATED SLIDE**
[54] **CHARNIERE DE PORTE AVEC GLISSIERE ALLONGEE**
[72] ELLEFRED, JORG, DE
[72] LIERMANN, NICOLAS, DE
[71] SIMONSWERK GMBH, DE
[22] 2022-10-28
[41] 2023-05-16
[30] DE (10 2021 129 879.2) 2021-11-16

[21] **3,180,736**
[13] A1

[51] **Int.Cl. E05D 7/04 (2006.01) E05D 3/02 (2006.01)**
[25] EN
[54] **DOOR HINGE**
[54] **CHARNIERE DE PORTE**
[72] LIERMANN, NICOLAS, DE
[71] SIMONSWERK GMBH, DE
[22] 2022-10-28
[41] 2023-05-16
[30] DE (10 2021 129 910.1) 2021-11-16

[21] **3,180,836**
[13] A1

[51] **Int.Cl. G06F 21/10 (2013.01) G06Q 20/38 (2012.01) G06F 21/62 (2013.01)**
[25] EN
[54] **DIGITAL IMAGING PRODUCTION MANAGEMENT DEVICES AND PROCESSES**
[54] **DISPOSITIFS ET PROCESSES DE GESTION DE LA PRODUCTION D'IMAGERIE NUMERIQUE**
[72] XU, MING, US
[72] PATEL, DIMPLE, US
[71] GOGIGIT, LLC, US
[22] 2022-11-02
[41] 2023-05-17
[30] US (17/528,458) 2021-11-17

[21] **3,180,842**
[13] A1

[25] EN
[54] **DEVICES TO MITIGATE POLARIZATION MODE DISPERSION**
[54] **DISPOSITIFS POUR ATTENUER LA DISPERSION D'UN MODE DE POLARISATION**
[72] LOGAN, DYLAN, CA
[72] MURRAY, KYLE, DE
[71] RANOVUS INC., CA
[22] 2022-11-02
[41] 2023-05-18
[30] US (63/280666) 2021-11-18

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May 14, 2023 to May 20, 2023**

[21] **3,181,271**

[13] A1

- [51] **Int.Cl. G06F 11/36 (2006.01)**
 [25] EN
 [54] **METHOD AND COMPUTING ENVIRONMENT FOR CREATING AND APPLYING A TEST ALGORITHM FOR COMPUTATIONAL PROCESSES**
 [54] **METHODE ET ENVIRONNEMENT INFORMATIQUE POUR LA CREATION ET L'APPLICATION D'UN ALGORITHME D'ESSAI POUR DES PROCEDES INFORMATIQUES**
 [72] SCHALLENBERG, ANDREAS, DE
 [72] BOLZ, MATTHIAS, DE
 [72] ECKELMANN-WENDT, UWE, DE
 [72] GERKEN, STEFAN, DE
 [71] SIEMENS MOBILITY GMBH, DE
 [22] 2022-11-08
 [41] 2023-05-15
 [30] EP (21208235.8) 2021-11-15

[21] **3,181,470**

[13] A1

- [51] **Int.Cl. B62B 3/06 (2006.01) B62B 3/065 (2006.01) B66F 9/06 (2006.01)**
 [25] EN
 [54] **TOTE MOVER**
 [54] **DISPOSITIF DE DEPLACEMENT DE PANIER**
 [72] FOSTER, DERICK, US
 [72] KALINOWSKI, DANE GIN MUN, US
 [72] POPOVITS, JOSEPH E., II, US
 [72] ENGLERT, TRAVIS JAMES, US
 [71] REHRIG PACIFIC COMPANY, US
 [22] 2022-11-14
 [41] 2023-05-14
 [30] US (63/279,168) 2021-11-14

[21] **3,181,509**

[13] A1

- [51] **Int.Cl. B23C 9/00 (2006.01)**
 [25] EN
 [54] **GUIDE DRESSER, CUTTER HEADS AND METHODS OF USE THEREOF**
 [54] **DRESSE-MEULE A GUIDE, TETES DE COUPE ET METHODES D'UTILISATION**
 [72] STROUD, GARY, CA
 [72] BERGERON, VINCENT, CA
 [71] INTERNAL MACHINERY SOLUTIONS LTD., CA
 [22] 2022-11-09
 [41] 2023-05-17
 [30] US (17/748,278) 2022-05-19
 [30] CA (3,159,644) 2022-05-19
 [30] CA (3,139,420) 2021-11-19
 [30] US (17/528,804) 2021-11-17

[21] **3,181,511**

[13] A1

- [51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
 [25] EN
 [54] **WHEAT VARIETY 6PRUL80B**
 [54] **VARIETE DE BLE 6PRUL80B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] UPHAUS, JAMES JOSEPH, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,434) 2021-11-18

[21] **3,181,512**

[13] A1

- [51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
 [25] EN
 [54] **WHEAT VARIETY 6PPWU07B**
 [54] **VARIETE DE BLE 6PPWU07B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] MARSHALL, GREGGORY CHARLES, US
 [72] UPHAUS, JAMES JOSEPH, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,441) 2021-11-18

[21] **3,181,513**

[13] A1

- [51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
 [25] EN
 [54] **WHEAT VARIETY 6PDKD09B**
 [54] **VARIETE DE BLE 6PDKD09B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] MARSHALL, GREGGORY CHARLES, US
 [72] UPHAUS, JAMES JOSEPH, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,442) 2021-11-18

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[21] **3,181,514**
 [13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
 [54] **WHEAT VARIETY 6PFEZ17B**
 [54] **VARIETE DE BLE 6PFEZ17B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] MARSHALL, GREGORY CHARLES, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,443) 2021-11-18

[21] **3,181,516**
 [13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
 [54] **WHEAT VARIETY 6PZDF21B**
 [54] **VARIETE DE BLE 6PZDF21B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] MARSHALL, GREGORY CHARLES, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,446) 2021-11-18

[21] **3,181,518**
 [13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
 [54] **WHEAT VARIETY 6PBLP40B**
 [54] **VARIETE DE BLE 6PBLP40B**
 [72] CABRAL, CANDIDA BRAGA, US
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] UPHAUS, JAMES JOSEPH, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,421) 2021-11-18

[21] **3,181,515**
 [13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
 [54] **WHEAT VARIETY 6PHHY42**
 [54] **VARIETE DE BLE 6PHHY42**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] UPHAUS, JAMES JOSEPH, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,452) 2021-11-18

[21] **3,181,517**
 [13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
 [54] **WHEAT VARIETY 6PPNE55B**
 [54] **VARIETE DE BLE 6PPNE55B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,455) 2021-11-18

[21] **3,181,520**
 [13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
 [54] **WHEAT VARIETY 6PCMK57B**
 [54] **VARIETE DE BLE 6PCMK57B**
 [72] LASKAR, WILLIAM JOSEPH, US
 [72] LEMES DA SILVA, CRISTIANO, US
 [72] LIVELY, KYLE JAY, US
 [72] MARSHALL, GREGORY CHARLES, US
 [71] PIONEER HI-BRED INTERNATIONAL, INC., US
 [22] 2022-11-09
 [41] 2023-05-18
 [30] US (17/455,422) 2021-11-18

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[21] **3,181,521**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PTAR09B**
[54] **VARIETE DE BLE 6PTAR09B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-09
[41] 2023-05-18
[30] US (17/455,423) 2021-11-18

[21] **3,181,522**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PDRR94B**
[54] **VARIETE DE BLE 6PDRR94B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] TRAGESSER, SAMUEL ABRAHAM, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-09
[41] 2023-05-18
[30] US (17/455,424) 2021-11-18

[21] **3,181,523**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PWEN66B**
[54] **VARIETE DE BLE 6PWEN66B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-09
[41] 2023-05-18
[30] US (17/455,427) 2021-11-18

[21] **3,181,524**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PJNF94B**
[54] **VARIETE DE BLE 6PJNF94B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-09
[41] 2023-05-18
[30] US (17/455,430) 2021-11-18

[21] **3,181,540**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PEMZ97B**
[54] **VARIETE DE BLE 6PEMZ97B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] TRAGESSER, SAMUEL ABRAHAM, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-09
[41] 2023-05-18
[30] US (17/455,432) 2021-11-18

[21] **3,181,588**
[13] A1

[51] **Int.Cl. C09J 9/00 (2006.01) B32B 7/12 (2006.01) B32B 15/12 (2006.01) B32B 15/14 (2006.01) B32B 17/04 (2006.01) B32B 33/00 (2006.01) B32B 37/12 (2006.01) C09D 201/00 (2006.01) C09J 5/04 (2006.01)**

[25] EN
[54] **FLEXIBLE AND LOW PERMEABLE VAPOR RETARDANTS FOR FACING PRODUCTS**
[54] **PARE-VAPEUR SOUPLE ET DE FAIBLE PERMEANCE POUR DES PRODUITS DE FACADE**
[72] BOYCE, JOSHUA MERRELL, US
[72] MOORE, ANTHONY EDWARD, US
[71] JOHNS MANVILLE, US

[22] 2022-11-14
[41] 2023-05-19
[30] US (17/530,816) 2021-11-19

**Demandes canadiennes mises à la disponibilité du public
14 mai 2023 au 20 mai 2023**

[21] **3,181,612**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/81 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PDL00B**
[54] **VARIETE DE BLE 6PDL00B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,435) 2021-11-18

[21] **3,181,618**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PLJW60B**
[54] **VARIETE DE BLE 6PLJW60B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,438) 2021-11-18

[21] **3,181,628**
[13] A1

[51] **Int.Cl. C12N 15/79 (2006.01) C12N 15/10 (2006.01) C12N 15/11 (2006.01) C12N 15/63 (2006.01) C12N 15/64 (2006.01) C12N 15/85 (2006.01)**

[25] EN
[54] **CIRCULAR RNA PLATFORMS, USES THEREOF, AND THEIR MANUFACTURING PROCESSES FROM ENGINEERED DNA**

[54] **PLATEFORMES D'ARN CIRCULAIRES, UTILISATIONS CONNEXES ET PROCEDES DE FABRICATION A PARTIR D'ADN MODIFIE**

[72] WILLIAMS, MARTIN, AR
[71] WILLIAMS, MARTIN, AR
[71] SYTE.BIO INC., US

[22] 2022-11-10
[41] 2023-05-16
[30] US (63279801) 2021-11-16

[21] **3,181,632**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PQAN73B**
[54] **VARIETE DE BLE 6PQAN73B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] TRAGESSER, SAMUEL ABRAHAM, US

[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-10
[41] 2023-05-18
[30] US (63/264,257) 2021-11-18

[21] **3,181,633**
[13] A1

[51] **Int.Cl. B60C 11/16 (2006.01)**

[25] EN
[54] **TYRE FOR A VEHICLE**
[54] **PNEU POUR UN VEHICULE**
[72] LIUKKULA, MIKKO, FI
[72] HEIKKINEN, LAURI, FI
[72] MARKKULA, KATRINA, FI
[72] KEMPPAINEN, NOORA, FI
[71] NOKIAN RENKAAT OYJ, FI

[22] 2022-11-08
[41] 2023-05-18
[30] FI (20216181) 2021-11-18

[21] **3,181,638**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PVLC66B**
[54] **VARIETE DE BLE 6PVLC66B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US

[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US

[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,457) 2021-11-18

**Canadian Applications Open to Public Inspection
May 14, 2023 to May 20, 2023**

[21] **3,181,640**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PDUA86B**
[54] **VARIETE DE BLE 6PDUA86B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (63/264,258) 2021-11-18

[21] **3,181,647**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PSFG91B**
[54] **VARIETE DE BLE 6PSFG91B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (63/264,259) 2021-11-18

[21] **3,181,650**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PASS54B**
[54] **VARIETE DE BLE 6PASS54B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,458) 2021-11-18

[21] **3,181,658**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PWEF05B**
[54] **VARIETE DE BLE 6PWEF05B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (63/264,260) 2021-11-18

[21] **3,181,670**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PYPU95B**
[54] **VARIETE DE BLE 6PYPU95B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,459) 2021-11-18

[21] **3,181,673**
[13] A1

[51] **Int.Cl. C10L 1/188 (2006.01) C10L 1/12 (2006.01) C10L 10/02 (2006.01) C10L 10/18 (2006.01)**

[25] EN
[54] **IMPROVEMENTS IN MARINE FUELS**
[54] **AMELIORATIONS AUX CARBURANTS MARINS**
[72] PASTORINO, ANDREA, GB
[72] CARLISLE, CHARLOTTE, GB
[72] CHALLINOR, AMY JANE, GB
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2022-11-08
[41] 2023-05-15
[30] EP (21208157.4) 2021-11-15

Demandes canadiennes mises à la disponibilité du public
14 mai 2023 au 20 mai 2023

[21] **3,181,678**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PQT00B**
[54] **VARIETE DE BLE 6PQT00B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] MARSHALL, GREGORY CHARLES, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,465) 2021-11-18

[21] **3,181,685**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PRSU04B**
[54] **VARIETE DE BLE 6PRSU04B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,500) 2021-11-18

[21] **3,181,688**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PBT06B**
[54] **VARIETE DE BLE 6PBT06B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,503) 2021-11-18

[21] **3,181,699**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **WHEAT VARIETY 6PQAJ29B**
[54] **VARIETE DE BLE 6PQAJ29B**
[72] LASKAR, WILLIAM JOSEPH, US
[72] LEMES DA SILVA, CRISTIANO, US
[72] LIVELY, KYLE JAY, US
[72] UPHAUS, JAMES JOSEPH, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2022-11-10
[41] 2023-05-18
[30] US (17/455,508) 2021-11-18

[21] **3,181,726**
[13] A1

[25] EN
[54] **DEVICE FOR THE IMPLEMENTATION OF ACCELERATED ION-BASED NUCLEAR FUSION REACTIONS**
[54] **DISPOSITIF POUR LA MISE EN OEUVRE DE REACTIONS DE FUSION NUCLEAIRE A BASE D'IONS ACCELERES**
[72] SANGLE-FERRIERE, BRUNO, FR
[71] SANGLE-FERRIERE, BRUNO, FR
[22] 2022-11-11
[41] 2023-05-15
[30] FR (2112053) 2021-11-15

[21] **3,181,830**
[13] A1

[51] **Int.Cl. E06B 9/78 (2006.01) B25J 1/04 (2006.01)**

[25] EN
[54] **AN APPARATUS TO ASSIST IN THE RAISING OR LOWERING OF A ROLLER SHADE**
[54] **APPAREIL POUR AIDER A LEVER OU A ABAISSER UN STORE A ROULEAU**
[72] NG, PHILIP, CA
[71] ZMC METAL COATING INC., CA
[22] 2022-11-14
[41] 2023-05-15
[30] US (63/279,231) 2021-11-15

[21] **3,181,855**
[13] A1

[51] **Int.Cl. G06T 15/00 (2011.01) G06T 15/06 (2011.01) G06N 20/00 (2019.01)**

[25] EN
[54] **TECHNIQUES FOR MULTI-VIEW NEURAL OBJECT MODELING**
[54] **TECHNIQUES DE MODELISATION D'OBJET NEURAL A ANGLES MULTIPLES**
[72] BRADLEY, DEREK EDWARD, US
[72] URNAU GOTARDO, PAULO FABIANO, US
[72] WANG, DAOYE, US
[72] ZOSS, GASPARD, US
[71] DISNEY ENTERPRISES, INC., US
[71] ETH ZURICH (EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZURICH), CH
[22] 2022-11-11
[41] 2023-05-16
[30] US (63/280,101) 2021-11-16
[30] US (17/983,246) 2022-11-08

**Canadian Applications Open to Public Inspection
May 14, 2023 to May 20, 2023**

[21] **3,181,860**
[13] A1

[51] **Int.Cl. G16H 50/20 (2018.01) G16H 50/50 (2018.01) G06N 20/20 (2019.01)**

[25] EN

[54] **TECHNIQUES FOR PREDICTING DISEASES USING SIMULATIONS IMPROVED VIA MACHINE LEARNING**

[54] **TECHNIQUES DE PREDICTION DE MALADIES AU MOYEN DE SIMULATIONS AMELIOREES PAR L'APPRENTISSAGE AUTOMATIQUE**

[72] RUPLE, AUDREY, US

[72] WOWRA, JOHANNES PAUL, US

[72] GIANNUZZI, JOHN K., US

[72] RABIN, DANNA, US

[72] DEBES, CHRISTIAN, US

[71] FETCH INSURANCE SERVICES, INC., US

[22] 2022-11-14

[41] 2023-05-17

[30] US (17/455,268) 2021-11-17

[21] **3,181,875**
[13] A1

[51] **Int.Cl. G06Q 30/0202 (2023.01) G06N 20/00 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PREDICTING IMPACT ON CONSUMER SPENDING USING MACHINE LEARNING**

[54] **SYSTEME ET METHODE POUR PREVOIR L'INCIDENCE SUR LES DEPENSES DES CONSOMMATEURS AU MOYEN DE L'APPRENTISSAGE AUTOMATIQUE**

[72] COURTNEY, PAULA, CA

[72] SKINNER, JON, US

[71] VERDE GROUP INC., CA

[22] 2022-11-11

[41] 2023-05-16

[30] US (63/279,863) 2021-11-16

[21] **3,181,931**
[13] A1

[25] EN

[54] **METHODS, DEVICES, AND SYSTEMS FOR SUBMETERING OF AN ELECTRIC VEHICLE (EV) CHARGING SESSION**

[54] **METHODES, DISPOSITIFS ET SYSTEMES DE COMPTEUR EN DECOMPTE D'UNE SESSION DE RECHARGE DE VEHICULES ELECTRIQUES**

[72] LOGVINOV, OLEG, US

[72] MACALUSO, MICHAEL J., US

[71] IOTECHA CORP., US

[22] 2022-11-14

[41] 2023-05-15

[30] US (63/279,345) 2021-11-15

[21] **3,181,936**
[13] A1

[25] EN

[54] **SCHEDULED CONFERENCE RECORDING**

[54] **ENREGISTREMENT DE CONFERENCE PLANIFIEE**

[72] YALAWARMATH, ANILKUMAR, IN

[72] NAIDOO, LOGENDRA, CA

[71] MITEL NETWORKS CORPORATION, CA

[22] 2022-11-11

[41] 2023-05-16

[30] US (17/527,795) 2021-11-16

[21] **3,181,967**
[13] A1

[51] **Int.Cl. B09B 3/20 (2022.01) B09B 3/25 (2022.01) F23G 5/027 (2006.01)**

[25] FR

[54] **PROCESS FOR TREATING BIOMASS IN PREPARATION FOR INJECTION INTO A GASIFICATION REACTOR**

[54] **PROCEDE DE TRAITEMENT DE LA BIOMASSE EN VUE DE SON INJECTION DANS UN REACTEUR DE GAZEIFICATION**

[72] DEMEY CEDENO, HARY, FR

[72] CHATAING, THIERRY, FR

[72] MARCHAND, MURIEL, FR

[72] RATEL, GILLES, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[22] 2022-11-15

[41] 2023-05-19

[30] FR (2112264) 2021-11-19

[21] **3,181,971**
[13] A1

[51] **Int.Cl. G01N 1/40 (2006.01) G01N 33/18 (2006.01)**

[25] EN

[54] **ICE CORE ANALYSIS OF END PIT LAKES**

[54] **ANALYSE DE CAROTTES DE GLACE DE LACS DE KETTLE**

[72] BARA, BARRY, CA

[72] PAPROSKI, RICHARD, CA

[71] SYNCRUDE CANADA LTD. IN TRUST FOR THE OWNERS OF THE SYNCRUDE PROJECT AS SUCH OWNERS EXIST NOW AND IN THE FUTURE, CA

[22] 2022-11-15

[41] 2023-05-16

[30] US (63/279,988) 2021-11-16

[21] **3,181,978**
[13] A1

[51] **Int.Cl. B62D 55/07 (2006.01) A63C 5/035 (2006.01) B60K 11/02 (2006.01)**

[25] EN

[54] **SNOW BIKE**

[54] **VELO A NEIGE**

[72] GRIEWE, DONALD L., US

[72] KROS, GREGORY J., US

[71] GRIEWE, DONALD L., US

[71] KROS, GREGORY J., US

[22] 2022-11-16

[41] 2023-05-16

[30] US (63/280,021) 2021-11-16

[21] **3,181,989**
[13] A1

[51] **Int.Cl. H01M 4/76 (2006.01) C01B 32/182 (2017.01) H01M 4/04 (2006.01) H01M 4/36 (2006.01) H01M 4/62 (2006.01)**

[25] EN

[54] **GRAPHENE-PATCHED YOLK-SHELL ANODES AND METHODS OF PRODUCING THE SAME**

[54] **ANODES JAUNE-COQUILLE REVETUES DE FLOCONS DE GRAPHENE ET METHODES DE PRODUCTION**

[72] MOGHIMIAN, NIMA, CA

[72] NAZARPOUR, SOROUSH, CA

[71] NANOXPLORE INC., CA

[22] 2022-11-15

[41] 2023-05-17

[30] US (63/280,239) 2021-11-17

Demandes canadiennes mises à la disponibilité du public
14 mai 2023 au 20 mai 2023

[21] **3,182,043**
 [13] A1

[51] **Int.Cl. A47L 7/00 (2006.01) A47L 5/24 (2006.01) A47L 9/18 (2006.01) A47L 11/30 (2006.01)**

[25] EN

[54] **HANDHELD EXTRACTION CLEANER**

[54] **DISPOSITIF DE NETTOYAGE D'EXTRACTION PORTATIF**

[72] GRIFFITH, AARON, US

[72] ROYALE, VICTORIA, J., US

[72] SMITH, DEREK, EVERETT, US

[71] BISSELL INC., US

[22] 2022-11-14

[41] 2023-05-17

[30] US (63/280,176) 2021-11-17

[21] **3,182,063**
 [13] A1

[51] **Int.Cl. F16L 55/26 (2006.01) B08B 9/023 (2006.01) B08B 9/043 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR LOADING A PIG INTO A PIPELINE WITH PIPELINE-ENGAGING MOVABLE MEMBER, REMOVABLE REDUCER, AND HYDRAULIC CYLINDER**

[54] **APPAREIL ET METHODE POUR CHARGER UN COCHON DANS UN PIPELINE AVEC UN ELEMENT MOBILE EN CONTACT AVEC LE PIPELINE, RACCORD REDUCTEUR AMOVIBLE ET VERIN HYDRAULIQUE**

[72] PETERSON, WARREN, CA

[71] PETERSON, WARREN, CA

[22] 2022-11-16

[41] 2023-05-18

[30] US (63/280947) 2021-11-18

[21] **3,182,094**
 [13] A1

[51] **Int.Cl. C25B 15/08 (2006.01) C25B 1/042 (2021.01) C25B 9/67 (2021.01) C25B 9/70 (2021.01) C25B 13/07 (2021.01)**

[25] EN

[54] **ELECTROCHEMICAL CELL SYSTEM INCLUDING STEAM RECYCLE AND CATHODE EXHAUST COOLER**

[54] **SYSTEME DE CELLULE ELECTROCHIMIQUE COMPRENANT UN RECYCLAGE DE VAPEUR ET UN REFROIDISSEUR D'ECHAPPEMENT DE CATHODE**

[72] WEINGAERTNER, DAVID, US

[72] PERRY, MARTIN, US

[72] TA, ANDY, US

[72] VENKATARAMAN, SWAMINATHAN, US

[71] BLOOM ENERGY CORPORATION, US

[22] 2022-11-15

[41] 2023-05-15

[30] US (63/279,381) 2021-11-15

[21] **3,182,107**
 [13] A1

[51] **Int.Cl. E05B 47/00 (2006.01)**

[25] EN

[54] **METHOD FOR DOOR LOCK CALIBRATION, DOOR LOCK, AND NON-TRANSITORY COMPUTER STORAGE MEDIUM**

[54] **METHODE D'ETALONNAGE DE VERROU DE PORTE, VERROU DE PORTE ET SUPPORT DE STOCKAGE INFORMATIQUE NON TRANSITOIRE**

[72] SU, QIYUN, CN

[71] SHENZHEN KAADAS INTELLIGENT TECHNOLOGY CO., LTD, CN

[22] 2022-11-16

[41] 2023-05-17

[30] CN (202111361395.4) 2021-11-17

[21] **3,182,109**
 [13] A1

[25] EN

[54] **RFID READER CONTROL INTEGRATED WITH SMART GARMENT**

[54] **COMMANDE DE LECTEUR RFID INTEGREE AVEC UN VETEMENT INTELLIGENT**

[72] BURNSIDE, WALTER D., US

[72] TSAI, WEI-FENG, US

[71] DJB GROUP LLC, US

[71] WISTRON NEWEB CORPORATION, TW

[22] 2022-11-16

[41] 2023-05-18

[30] US (17/455,467) 2021-11-18

[21] **3,182,122**
 [13] A1

[51] **Int.Cl. A61B 1/05 (2006.01) A61B 1/06 (2006.01) A61B 1/267 (2006.01)**

[25] EN

[54] **DYNAMICALLY RETRACTABLE CAMERA FOR VIDEO LARYNGOSCOPE**

[54] **CAMERA RETRACTABLE DYNAMIQUEMENT POUR LARYNGOSCOPE VIDEO**

[72] FOUTS, JASON, US

[72] VAN HAREN, AVI, US

[72] LEUNG, HUGH, US

[72] KIM, YONGKOOK, US

[72] NEIMY, RYAN, US

[72] OVCHARENKO, SERGEY, US

[71] VERATHON INC., US

[22] 2022-11-17

[41] 2023-05-18

[30] US (63/280,746) 2021-11-18

**Canadian Applications Open to Public Inspection
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[21] **3,182,138**
[13] A1

[51] **Int.Cl. G06Q 50/30 (2012.01) F17D 3/01 (2006.01)**
[25] EN
[54] **CONTROL SYSTEM FOR A FUEL SUPPLY NETWORK**
[54] **SYSTEME DE REGULATION POUR UN RESEAU D'ALIMENTATION EN CARBURANT**
[72] LATSHAW, CATHERINE CATINO, US
[72] GUTER, ERIC J., US
[72] CHEN, YE, US
[72] ISOM, JOSHUA D., US
[72] STAMPS, ANDREW T., US
[72] URICH, MATTHEW D., US
[72] GOHEEN, CHRISTOPHER H., US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2022-11-16
[41] 2023-05-19
[30] US (17/530,523) 2021-11-19

[21] **3,182,140**
[13] A1

[51] **Int.Cl. B65C 9/26 (2006.01) B65C 1/02 (2006.01)**
[25] EN
[54] **LABEL APPLYING SYSTEM**
[54] **SYSTEME D'APPLICATION D'ETIQUETTE**
[72] SCHMOKER, RONALD LEE, US
[72] GIESEN, TRUMAN JAMES, US
[72] PARIS, KYLE AUSTIN, US
[72] BAIRD, CORBIN HENRY, US
[71] ID TECHNOLOGY LLC, US
[22] 2022-11-17
[41] 2023-05-17
[30] US (63/280,199) 2021-11-17

[21] **3,182,147**
[13] A1

[51] **Int.Cl. F24F 11/62 (2018.01) F24F 7/00 (2021.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING AIR QUALITY IN AN INDOOR ENVIRONMENT OF A BUILDING**
[54] **METHODE ET SYSTEME POUR CONTROLER LA QUALITE DE L'AIR DANS UN ENVIRONNEMENT INTERIEUR D'UN BATIMENT**
[72] LAPENTA, GAETANO, IT
[72] SCARAMELLI, MARCO, IT
[71] FYBRA S.R.L., IT
[22] 2022-11-16
[41] 2023-05-19
[30] IT (102021000029369) 2021-11-19

[21] **3,182,180**
[13] A1

[51] **Int.Cl. B63B 35/00 (2020.01) A01D 44/00 (2006.01) B63B 17/00 (2006.01)**
[25] EN
[54] **WORKBOAT AND METHOD FOR OPERATING A WORKBOAT**
[54] **CANOT DE SERVICE ET METHODE D'EXPLOITATION**
[72] STUR, MATHIAS, DE
[72] STINNER, WALTER, DE
[72] VERWORNER, BENGT, DE
[71] DBFZ DEUTSCHES BIOMASSEFORSCHUNGSZENTRUM GEMEINNUTZIGE GMBH, DE
[22] 2022-11-16
[41] 2023-05-16
[30] DE (102021129802.4) 2021-11-16

[21] **3,182,187**
[13] A1

[51] **Int.Cl. B62D 33/06 (2006.01)**
[25] EN
[54] **VEHICLE CAB SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE CABINE DE VEHICULE**
[72] ZEAMER, JON, US
[72] STEFFENS, GREG, US
[72] BRANSON, JON, US
[72] ANDRINGA, JEREMY, US
[72] WOLF, RYAN, US
[72] MUELLER, SAM, US
[72] HABERLEIN, AMANDA, US
[72] VERHAGEN, JEFF, US
[72] ZULEGER, TRAVIS, US
[72] GENTNER, JOSH, US
[71] OSHKOSH CORPORATION, US
[22] 2022-11-16
[41] 2023-05-17
[30] US (63/280,360) 2021-11-17
[30] US (17/987,098) 2022-11-15

[21] **3,182,188**
[13] A1

[51] **Int.Cl. A61G 17/08 (2006.01) B65D 5/20 (2006.01) B65D 5/42 (2006.01) B65D 25/20 (2006.01) B65D 25/54 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT URN WITH MEMENTO DISPLAY**
[54] **URNE LEGERE AVEC AFFICHAGE DE MEMENTO**
[72] DAVIS, JUSTIN F., US
[71] VANDOR GROUP, INC., US
[22] 2022-11-17
[41] 2023-05-17
[30] US (63/280,522) 2021-11-17

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[21] **3,182,190**
 [13] A1

[51] **Int.Cl. B65F 3/00 (2006.01)**
 [25] EN
 [54] **REFUSE VEHICLE WITH ADVANCED DRIVER-ASSISTANCE SYSTEM**
 [54] **VEHICULE A ORDURES AVEC SYSTEME AVANCE D'ASSISTANCE AU CONDUCTEUR**
 [72] HABERLEIN, AMANDA, US
 [72] CHAN, BRENDAN, US
 [72] ZEAMER, JON, US
 [72] STEFFENS, GREG, US
 [72] TEBBE, JAMES, US
 [72] ANDRINGA, JEREMY, US
 [72] BRANSON, JON, US
 [72] WOLF, RYAN, US
 [72] MUELLER, SAM, US
 [72] FISCHER, BEN, US
 [72] VERHAGEN, JEFF, US
 [71] OSHKOSH CORPORATION, US
 [22] 2022-11-16
 [41] 2023-05-18
 [30] US (63/280,899) 2021-11-18
 [30] US (17/987,105) 2022-11-15

[21] **3,182,191**
 [13] A1

[25] EN
 [54] **VOICE QUALITY INSPECTION METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
 [54] **METHODE ET DISPOSITIF D'INSPECTION DE LA QUALITE VOCALE, MATERIEL INFORMATIQUE ET SUPPORT DE STOCKAGE**
 [72] ZHANG, QI, CN
 [72] SHI, JIN, CN
 [72] FAN, DAZHANG, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2022-11-17
 [41] 2023-05-17
 [30] CN (202111360877.8) 2021-11-17

[21] **3,182,198**
 [13] A1

[51] **Int.Cl. G16H 40/20 (2018.01) G06Q 40/08 (2012.01) G06N 20/00 (2019.01) G06F 40/20 (2020.01)**
 [25] EN
 [54] **SYSTEMS AND METHODS FOR PREDICTING HEALTHCARE PROVIDER SPECIALTIES**
 [54] **SYSTEMES ET METHODES POUR PREVOIR LES SPECIALITES DE PROFESSIONNELS DE LA SANTE**
 [72] HANNON, ADAM FLOYD, US
 [72] SUBEDI, SAURAV KUMAR, US
 [72] MORALES, BRIDGET ELISE, US
 [72] SAURABH, PRASOON, US
 [71] CODOXO, INC., US
 [22] 2022-11-17
 [41] 2023-05-19
 [30] US (63/264,318) 2021-11-19

[21] **3,182,208**
 [13] A1

[51] **Int.Cl. G06Q 10/20 (2023.01)**
 [25] EN
 [54] **BUSINESS DATA PROCESSING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
 [54] **METHODE ET DISPOSITIF DE TRAITEMENT DE DONNEES D'ENTREPRISE, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
 [72] LI, CHUNLAI, CN
 [72] ZHU, JIANYONG, CN
 [72] DONG, XIAOQIANG, CN
 [72] LIANG, XIN, CN
 [72] DONG, JIAJIA, CN
 [71] 10353744 CANADA LTD., CA
 [22] 2022-11-17
 [41] 2023-05-17
 [30] CN (202111360879.7) 2021-11-17

[21] **3,182,219**
 [13] A1

[51] **Int.Cl. E04B 9/06 (2006.01)**
 [25] EN
 [54] **BRACKET FOR ANGLED CEILING PANELS AND CEILING PANEL SYSTEM**
 [54] **SUPPORT POUR PANNEAUX DE PLAFOND EN ANGLE ET SYSTEME DE PANNEAUX DE PLAFOND**
 [72] CUMMING, MICHAEL, US
 [72] CARRILLO LACOUTURE, SAMUEL, US
 [71] CERTAINTTEED CEILINGS CORPORATION, US
 [22] 2022-11-16
 [41] 2023-05-16
 [30] US (63/279,910) 2021-11-16

[21] **3,182,239**
 [13] A1

[51] **Int.Cl. B65D 85/32 (2006.01) B65D 1/36 (2006.01) B65D 43/02 (2006.01)**
 [25] EN
 [54] **EGG CARTON WITH SEPARATE BASE AND LID CONFIGURATIONS AND MOISTURE VENTING**
 [54] **CARTON D'OEUF AVEC CONFIGURATIONS DE BASE ET DE COUVERCLES SEPARES ET VENTILATION D'HUMIDITE**
 [72] LICHTLE, ROGER, US
 [72] GALLAGHER, CHUCK, US
 [72] CALCAGNO, NICOLAS, US
 [72] SIERRA, JOHN, US
 [71] TEKNI-PLEX, INC., US
 [22] 2022-11-17
 [41] 2023-05-19
 [30] US (63/281,398) 2021-11-19

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[21] 3,182,287 [13] A1	[21] 3,182,304 [13] A1	[21] 3,182,420 [13] A1
[25] EN [54] SENSOR, SYSTEM AND METHOD FOR ACQUIRING A SIGNAL INDICATIVE OF AN INTENSITY SPECTRUM OF ELECTROMAGNETIC RADIATION [54] CAPTEUR, SYSTEME ET METHODE POUR OBTENIR UN SIGNAL INDIQUANT UN SPECTRE D'INTENSITE D'UN RAYONNEMENT ELECTROMAGNETIQUE [72] SHEN, DAOZHI, CA [72] TSEN, ADAM WEI, CA [71] SHEN, DAOZHI, CA [71] TSEN, ADAM WEI, CA [22] 2022-11-16 [41] 2023-05-17 [30] US (63/280,177) 2021-11-17	[25] EN [54] PROVERLESS LIQUID HYDROCARBON FLOW MEASUREMENT FOR PIPELINE [54] MESURE DU FLUX D'HYDROCARBURE LIQUIDE SANS ETALON POUR UN PIPELINE [72] SAWCHUK, BLAINE, CA [72] SAWCHUK, DANIEL, CA [72] SAWCHUK, DALE, CA [71] CANADA PIPELINE ACCESSORIES, CO. LTD., CA [22] 2022-11-18 [41] 2023-05-19 [30] US (17/983,435) 2022-11-09 [30] US (63/281,174) 2021-11-19	[51] Int.Cl. A01G 9/00 (2018.01) [25] EN [54] METHOD FOR INITIATING A PLANT IN PREPARATION OF ITS INTRODUCTION INTO A VERTICAL FARM UNIT [54] METHODE D'INITIATION D'UN PLANT EN PREPARATION DE SON AJOUT A UNE UNITE DE FERME VERTICALE [72] DAOUST, YVES, CA [72] RIAZ, KASHIF, CA [71] FERME D'HIVER TECHNOLOGIES INC., CA [22] 2022-11-18 [41] 2023-05-19 [30] US (63281350) 2021-11-19
[21] 3,182,303 [13] A1	[21] 3,182,382 [13] A1	[21] 3,182,427 [13] A1
[51] Int.Cl. B64C 1/26 (2006.01) B64F 5/10 (2017.01) B64C 1/10 (2006.01) B64C 9/02 (2006.01) [25] EN [54] SYSTEM AND METHOD FOR ASSEMBLING AN AFT FUSELAGE SECTION OF AN AIRCRAFT [54] SYSTEME ET METHODE POUR ASSEMBLER UNE PARTIE ARRIERE DU FUSELAGE D'UN AERONEF [72] JOSEPH, JOEL, US [72] ROSMAN, RICHARD R., US [72] BREEDLOVE, MAX TYLER, US [72] DIEP, PAUL B., US [71] THE BOEING COMPANY, US [22] 2022-11-16 [41] 2023-05-17 [30] US (17/528,247) 2021-11-17	[51] Int.Cl. A47H 23/00 (2006.01) A47H 13/00 (2006.01) [25] EN [54] SEPARABLE HOSPITAL CURTAIN [54] RIDEAU D'HOPITAL SEPARABLE [72] BING, RICHARD R., US [72] COLPO, BRYAN J., US [72] KING, SHAWN K., US [72] KOMATZ, MICHAEL, US [72] ONALAN, ADEM, US [72] PERRY, MARCO, US [72] MESKO, DAVID STEVEN, US [72] WILKER, AMY E., US [72] WILLIAMS, BROOKE, US [71] CINTAS CORPORATE SERVICES, INC., US [22] 2022-11-18 [41] 2023-05-18 [30] US (63/280,651) 2021-11-18 [30] US (63/304,833) 2022-01-31 [30] US (63/317,112) 2022-03-07 [30] US (63/320,369) 2022-03-16 [30] US (63/320,366) 2022-03-16	[51] Int.Cl. E04C 5/01 (2006.01) E04B 1/38 (2006.01) E04C 3/04 (2006.01) E04C 5/18 (2006.01) [25] FR [54] SYSTEM FOR RIGIDIFYING A STRUCTURE [54] SYSTEME DE RIGIDIFICATION D'UNE STRUCTURE [72] CHARTIER, EMILIE, FR [72] AMAR, JEREMY, FR [72] PRINTEMPS, MORGAN, FR [72] QUEVILLIER, LUDOVIC, FR [72] RICHARD, AYMERIC, FR [72] GILLET, LUCAS, FR [72] SOULIE, EMILE, FR [71] NEXANS, FR [22] 2022-11-14 [41] 2023-05-16 [30] FR (2112112) 2021-11-16

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[21] **3,182,442**
[13] A1

[51] **Int.Cl. C08L 31/04 (2006.01) C08J 3/20 (2006.01) C08L 29/04 (2006.01) C08L 83/04 (2006.01)**

[25] EN
[54] **ADDITIVES FOR SILICONE COMPOSITIONS**
[54] **ADDITIFS POUR COMPOSITIONS DE SILICONE**

[72] PHUN, LIEN, US
[72] PRATER, RONI, US
[72] KOEPP, BRYAN, US
[72] KREFT, JOSEPH, US
[71] SANFORD, L.P., US
[22] 2022-11-18
[41] 2023-05-19
[30] US (63/264,341) 2021-11-19

[21] **3,182,461**
[13] A1

[51] **Int.Cl. C12Q 1/689 (2018.01) C12Q 1/6823 (2018.01) C12Q 1/6825 (2018.01) C12M 1/34 (2006.01) C12Q 1/00 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **A DNAZYME-BASED SENSOR FOR STAPHYLOCOCCUS AUREUS**
[54] **CAPTEUR A BASE DE DESOXYRIBOZYME POUR STAPHYLOCOCCUS AUREUS**

[72] ALI, MONSUR, CA
[72] WHITE, DAWN, CA
[72] MOHAMMADI, SAEED, CA
[72] LI, YINGFU, CA
[72] CAPRETTA, ALFREDO, CA
[72] BRENNAN, JOHN, CA
[71] MCMASTER UNIVERSITY, CA
[22] 2022-11-18
[41] 2023-05-19
[30] US (63/281,299) 2021-11-19

[21] **3,182,469**
[13] A1

[51] **Int.Cl. B64D 45/00 (2006.01) B64C 9/16 (2006.01)**

[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING A JAM OF A FLAP OF A WING OF AN AIRCRAFT**
[54] **SYSTEMES ET METHODES POUR LA DETECTION D'UN COINCEMENT D'UN VOLET DE COURBURE D'AERONEF**

[72] BLOCK, SAMUEL L., US
[72] BOWERS, BRET ALAN, US
[72] TSAI, KEVIN R., US
[71] THE BOEING COMPANY, US
[22] 2022-11-18
[41] 2023-05-19
[30] US (17/530545) 2021-11-19

[21] **3,182,485**
[13] A1

[51] **Int.Cl. A63H 33/00 (2006.01)**

[25] EN
[54] **BEVERAGE DISPENSER TOY**
[54] **JOUET DISTRIBUTEUR DE BREUVAGE**

[72] LEMOINE, GEORGE, US
[72] BURTONWOOD, MATT, GB
[71] MELISSA & DOUG, LLC, US
[22] 2022-11-18
[41] 2023-05-19
[30] US (17/530,857) 2021-11-19

[21] **3,182,524**
[13] A1

[25] EN
[54] **ACTIVE-ARRAY MULTI-BEAM ANTENNA COMPRISING A HYBRID DEVICE FOR FORMING DIRECTIVE BEAMS**
[54] **ANTENNE RESEAU ACTIVE MULTIFAISCEAU COMPRENANT UN DISPOSITIF HYBRIDE POUR LA FORMATION DE FAISCEAUX DIRECTEURS**

[72] LEGAY, HERVE, FR
[72] GIRARD, ETIENNE, FR
[72] FRAYSSE, JEAN-PHILIPPE, FR
[72] VIDAL, FLORIAN, FR
[71] THALES, FR
[22] 2022-11-18
[41] 2023-05-19
[30] FR (2112247) 2021-11-19

[21] **3,182,525**
[13] A1

[25] EN
[54] **LIGHTING PROGRAM FOR AIRCRAFT INTERIOR**
[54] **PROGRAMME D'ECLAIRAGE POUR L'INTERIEUR D'UN AERONEF**

[72] MALEK, BRUCE, CA
[71] BOMBARDIER INC., CA
[22] 2022-11-18
[41] 2023-05-19
[30] US (63/281,607) 2021-11-19

[21] **3,182,533**
[13] A1

[51] **Int.Cl. A63G 31/00 (2006.01)**

[25] EN
[54] **MODULAR EXPERIENTIAL WATER TUNNEL AND METHOD THEREOF**
[54] **TUNNEL D'EAU EXPERIENTIEL MODULAIRE ET METHODE CONNEXE**

[72] HAMELIN, STEPHEN, CA
[71] VORTEX AQUATIC STRUCTURES INTERNATIONAL INC., CA
[22] 2022-11-18
[41] 2023-05-18
[30] US (63/264,265) 2021-11-18

[21] **3,182,578**
[13] A1

[51] **Int.Cl. E04B 1/62 (2006.01) E04B 1/00 (2006.01)**

[25] EN
[54] **THERMAL BREAK PRODUCT AND SOLUTION**
[54] **PRODUIT ET SOLUTION DE BARRIERE THERMIQUE**

[72] TROPYNINA, EKATERINA, CA
[71] STELLA NUVA CORPORATION, CA
[22] 2022-11-21
[41] 2023-05-19
[30] US (63/281,386) 2021-11-19

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[21] **3,182,605**

[13] A1

[51] **Int.Cl. F16H 61/662 (2006.01) F16D
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F16H 55/56 (2006.01)**

[25] EN

[54] **CONTINUOUSLY VARIABLE
TRANSMISSION CLUTCH**

[54] **EMBRAYAGE DE TRANSMISSION
VARIABLE DE FACON
CONTINUE**

[72] HAMM, CHRISTOPHER DAVID, US

[72] OKESON, SHANE CLAIR, US

[72] RICKE, CANAAN WRAY, US

[72] ADKINS, GREGORY J., US

[71] TEAM INDUSTRIES, INC., US

[22] 2022-11-18

[41] 2023-05-19

[30] US (63/281,165) 2021-11-19

[21] **3,193,774**

[13] A1

[51] **Int.Cl. A01G 23/06 (2006.01) A01G
23/091 (2006.01) B27B 17/00 (2006.01)**

[25] EN

[54] **A ROTARY ARM SYSTEM AND
METHOD**

[54] **SYSTEME ET METHODE DE
BRAS ROTATIF**

[72] MEILINGER, JOSHUA, CA

[71] MEILINGER, JOSHUA, CA

[71] MEILINGER, JESSICA, CA

[22] 2023-03-21

[41] 2023-05-19

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[51] Int.Cl. C25C 3/06 (2006.01) [25] EN [54] RAPID DETERMINATION OF CRYOLITE RATIO AND KF CONCENTRATION IN ELECTROLYTE FOR ALUMINUM PRODUCTION	[51] Int.Cl. C12N 1/20 (2006.01) C12N 1/00 (2006.01) [25] EN [54] THE COMPOSITION OF CULTURE MEDIA FOR FAECALIBACTERIUM PRAUSNITZII	[51] Int.Cl. C09K 8/36 (2006.01) [25] EN [54] INVERTING SURFACTANTS FOR INVERSE EMULSIONS
[54] DETERMINATION RAPIDE DU RAPPORT DE CRYOLITE ET CONCENTRATION KF DANS UN ELECTROLYTE AUX FINS DE PRODUCTION D'ALUMINIUM	[54] COMPOSITION DE CULTURE MEDIA POUR FAECALIBACTERIUM PRAUSNITZII	[54] TENSIOACTIFS INVERSEURS POUR EMULSIONS INVERSES
[72] DONTSOV, ALEKSANDR VIKTOROVICH, RU	[72] SEO, JAE GU, KR	[72] GUNAWAN, STANLEY, US
[72] BAKIN, KIRILL BORISOVICH, RU	[72] LEE, DO KYUNG, KR	[72] ZHANG, ZHIHUA, SG
[72] SIMAKOV, DMITRIY ALEKSANDROVICH, RU	[71] ENTEROBIOME INC., KR	[72] ZHANG, SHAOPENG, US
[72] GUSEV, ALEKSANDR OLEGOVICH, RU	[85] 2022-03-25	[72] PIMKOV, IGOR, US
[71] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR", RU	[86] 2022-02-07 (PCT/KR2022/001867)	[72] CHEN, ZHENXING, CN
[85] 2021-10-04	[87] (3152604)	[72] QU, QI, US
[86] 2020-07-24 (PCT/RU2020/050167)	[30] KR (10-2021-0159492) 2021-11-18	[71] RHODIA OPERATIONS, FR
[87] (WO2021/029789)		[85] 2022-11-11
[30] RU (2019125929) 2019-08-15		[86] 2020-06-09 (PCT/CN2020/095084)
		[87] (WO2021/248305)
	[21] 3,155,036 [13] A1	[21] 3,184,939 [13] A1
	[51] Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01) F01D 15/08 (2006.01) F04B 23/04 (2006.01)	[51] Int.Cl. G01W 1/18 (2006.01)
	[25] FR	[25] EN
	[54] TURBINE FRACTURING APPARATUS AND TURBINE FRACTURING WELL SITE	[54] FIELD CALIBRATION OF REFERENCE WEATHER STATIONS
	[54] TURBINE FRACTURING APPARATUS AND TURBINE FRACTURING WELL SITE	[54] ETALONNAGE SUR LE TERRAIN DE STATIONS METEO DE REFERENCE
	[72] JI, XIAOLEI, CN	[72] DORMODY, MICHAEL, US
	[72] ZHANG, RIKUI, CN	[72] HAN, GUIYUAN, US
	[72] ZHANG, PENG, CN	[72] NAGARAJAN, BADRINATH, US
	[72] ZHONG, JIFENG, CN	[72] LIU, WEI, US
	[72] LAN, CHUNQIANG, CN	[72] DAVE, PRASHANT (DECEASED), US
	[72] WU, YIPENG, CN	[72] RAGHUPATHY, ARUN, US
	[72] LI, XINCHENG, CN	[71] NEXTNAV, LLC, US
	[71] YANTAI JEREH PETROLEUM EQUIPMENT & TECHNOLOGIES CO., LTD., CN	[85] 2022-12-07
	[85] 2022-04-14	[86] 2022-11-07 (PCT/IB2022/060707)
	[86] 2022-01-12 (PCT/CN2022/071607)	[87] (3184939)
	[87] (3155036)	[30] US (63/264,119) 2021-11-16
	[30] CN (202111368299.2) 2021-11-18	

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[21] **3,193,289**
[13] A1

[51] **Int.Cl. G01N 29/04 (2006.01) G01N 29/06 (2006.01) G01N 29/30 (2006.01) G01N 29/44 (2006.01)**

[25] EN

[54] **CALIBRATION METHOD FOR GUIDED ELASTIC WAVE TOMOGRAPHY ADAPTED TO CYLINDER-TYPE STRUCTURES**

[54] **METHODE DE CALIBRATION POUR TOMOGRAPHIE PAR ONDES ELASTIQUES GUIDEES ADAPTEE A DES STRUCTURES DE TYPE CYLINDRE**

[72] DRUET, TOM, FR

[72] HOANG HUU, TINH, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE, FR

[85] 2023-03-21

[86] 2021-09-23 (PCT/EP2021/076145)

[87] (WO2022/063871)

[30] FR (FR2009659) 2020-09-23

[21] **3,193,314**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) G01N 33/574 (2006.01)**

[25] EN

[54] **DISCOVERY AND USE OF IMMUNOGENIC PEPTIDES FOR THE TREATMENT AND PREVENTION OF CANCERS**

[54] **DECOUVERTE ET UTILISATION DE PEPTIDES IMMUNOGENES POUR LE TRAITEMENT ET LA PREVENTION DE CANCERS**

[72] GUNARATNE, PREETHI, US

[72] MISTRETTA, BRANDON, US

[72] RANKOTHGEDERA, SAKUNI, US

[72] CASTILLO, MICAH, US

[72] BEDROSIAN, ISABELLE, US

[71] UNIVERSITY OF HOUSTON SYSTEM, US

[71] BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2023-03-21

[86] 2021-09-23 (PCT/US2021/051637)

[87] (WO2022/066828)

[30] US (63/082,160) 2020-09-23

[21] **3,193,325**
[13] A1

[51] **Int.Cl. C07D 417/12 (2006.01) A61K 31/4178 (2006.01) C07D 277/46 (2006.01) C07D 403/12 (2006.01) C07D 413/12 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **ALPHA PROTEIN KINASE 1 INHIBITORS AND METHODS OF USE**

[54] **INHIBITEURS DE LA PROTEINE ALPHA KINASE 1 ET PROCEDES D'UTILISATION**

[72] LIU, DANYANG, CN

[72] XU, CONG, CN

[72] MELVIN, LAWRENCE S. JR., CN

[72] WEI, XIONG, CN

[72] LI, TONGRUEI RAYMOND, CN

[72] FAN, JIEQING, CN

[72] PAN, YANFANG, CN

[72] DANG, HUAIXIN, CN

[72] LICHENSTEIN, HENRI, CN

[72] XU, TIAN, CN

[71] SHANGHAI YAO YUAN BIOTECHNOLOGY CO., LTD., CN

[85] 2023-03-21

[86] 2021-09-23 (PCT/CN2021/119801)

[87] (WO2022/063152)

[30] CN (PCT/CN2020/117436) 2020-09-24

[21] **3,193,488**
[13] A1

[51] **Int.Cl. A61K 31/381 (2006.01) A61K 31/40 (2006.01) A61K 31/4025 (2006.01) C07D 207/04 (2006.01) C07D 333/30 (2006.01) C07D 333/36 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOUNDS FOR THE TREATMENT OF COMPLEMENT MEDIATED DISORDERS**

[54] **COMPOSES PHARMACEUTIQUES POUR LE TRAITEMENT DE TROUBLES A MEDIATION PAR COMPLEMENT**

[72] WILES, JASON ALLAN, US

[72] GADHACHANDA, VENKAT RAO, US

[72] ONYANGO, EVANS O., US

[71] ACHILLION PHARMACEUTICALS, INC., US

[85] 2023-03-22

[86] 2021-09-22 (PCT/US2021/051559)

[87] (WO2022/066774)

[30] US (63/082,169) 2020-09-23

[21] **3,193,603**
[13] A1

[51] **Int.Cl. G10L 15/26 (2006.01) G06F 16/24 (2019.01) G10L 15/22 (2006.01)**

[25] EN

[54] **SYSTEM AND/OR METHOD FOR SEMANTIC PARSING OF AIR TRAFFIC CONTROL AUDIO**

[54] **SYSTEME ET/OU PROCEDE D'ANALYSE SEMANTIQUE DE DONNEES AUDIO DE CONTROLE DE LA CIRCULATION AERIENNE**

[72] PUST, MICHAEL, US

[72] BONDARYK, JOSEPH, US

[72] GEORGE, MATTHEW, US

[71] MERLIN LABS, INC., US

[85] 2023-03-23

[86] 2021-10-13 (PCT/US2021/054723)

[87] (WO2022/081669)

[30] US (63/090,898) 2020-10-13

[21] **3,194,097**
[13] A1

[51] **Int.Cl. A47J 42/38 (2006.01) A47J 31/42 (2006.01)**

[25] EN

[54] **COFFEE MACHINE**

[54] **MACHINE A CAFE**

[72] TSUCHIDA, JUNYA, JP

[72] WAKABAYASHI, TAKAYUKI, JP

[71] DAITO GIKEN, INC., JP

[85] 2023-03-22

[86] 2022-10-24 (PCT/JP2022/039435)

[87] (3194097)

[30] JP (JP 2021-186500) 2021-11-16

[21] **3,194,241**
[13] A1

[51] **Int.Cl. A47J 42/38 (2006.01) A47J 31/42 (2006.01)**

[25] EN

[54] **COFFEE MACHINE**

[54] **MACHINE A CAFE**

[72] SAITO, TOSHIO, JP

[72] WAKABAYASHI, TAKAYUKI, JP

[71] DAITO GIKEN, INC., JP

[85] 2023-03-13

[86] 2022-10-24 (PCT/JP2022/039436)

[87] (3194241)

[30] JP (2021-186502) 2021-11-16

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[21] **3,194,290**
[13] A1

[51] **Int.Cl. A47J 31/42 (2006.01) A47J 31/00 (2006.01) A47J 31/60 (2006.01) B65D 88/34 (2006.01) B65D 88/42 (2006.01)**

[25] EN
[54] **COFFEE MACHINE**
[54] **MACHINE A CAFE**
[72] TSUCHIDA, JUNYA, JP
[72] WAKABAYASHI, TAKAYUKI, JP
[71] DAITO GIKEN, INC., JP
[85] 2023-03-24
[86] 2022-03-23 (PCT/JP2022/013458)
[87] (3194290)
[30] JP (2021-186504) 2021-11-16

[21] **3,194,343**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 47/55 (2017.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61K 31/519 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**

[25] EN
[54] **TRICYCLIC HETEROBIFUNCTIONAL COMPOUNDS FOR DEGRADATION OF TARGETED PROTEINS**
[54] **COMPOSES HETEROBIFONCTIONNELS TRICYCLIQUES POUR LA DEGRADATION DE PROTEINES CIBLEES**
[72] NASVESCHUK, CHRISTOPHER G., US
[72] ANDERSON, COREY DON, US
[72] HENDERSON, JAMES A., US
[72] GARZA, VICTORIA, US
[72] LIANG, YANKE, US
[72] MOUSTAKIM, MOSES, US
[72] JACKSON, KATRINA L., US
[72] DUPLESSIS, MARTIN, US
[71] C4 THERAPEUTICS, INC., US
[85] 2023-03-30
[86] 2021-10-14 (PCT/US2021/055105)
[87] (WO2022/081928)
[30] US (63/091,897) 2020-10-14

[21] **3,194,692**
[13] A1

[51] **Int.Cl. A01N 63/20 (2020.01)**

[25] EN
[54] **METHYLOBACTERIUM STRAINS FOR ENHANCING PLANT PRODUCTION AND METHODS RELATED THERETO**
[54] **SOUCHES DE METHYLOBACTERIUM POUR AMELIORER LA PRODUCTION DE PLANTES ET PROCEDES ASSOCIES**
[72] BREAKFIELD, NATALIE, US
[72] VOGAN, PATRICK, US
[72] BRYANT, DOUG, US
[72] KEROVUO, JANNE, US
[72] JACK, ALLISON, US
[72] HADDOX, ASHLEY, US
[71] NEWLEAF SYMBIOTICS, INC., US
[85] 2023-04-03
[86] 2021-10-06 (PCT/US2021/053808)
[87] (WO2022/076588)
[30] US (63/088,837) 2020-10-07
[30] US (PCT/US2021/035480) 2021-06-02
[30] US (63/209,286) 2021-06-10

[21] **3,194,694**
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/416 (2006.01) A61K 31/4178 (2006.01) A61K 31/4375 (2006.01) A61K 31/4709 (2006.01) A61K 31/4725 (2006.01) A61K 31/4985 (2006.01) A61P 35/00 (2006.01) C07D 401/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**

[25] EN
[54] **ACETAMIDO-PHENYL-TETRAZOLE DERIVATIVES AND METHODS OF USING THE SAME**
[54] **DERIVES D'ACETAMIDO-PHENYL-TETRAZOLE ET LEURS METHODES D'UTILISATION**
[72] URGAONKAR, SAMEER, US
[72] SAID, AHMED M., US
[72] NASIEF ABDEL SAYED, NADER N., US
[72] PITZONKA, LAURA BETH, US
[72] SMOLINSKI, MICHAEL P., US
[72] LAU, JOHNSON YIU-NAM, US
[72] CUTLER, MURRAY JOHN, CA
[71] ATHENEX, INC., US
[85] 2023-04-03
[86] 2021-10-07 (PCT/US2021/053937)
[87] (WO2022/076663)
[30] US (63/088,788) 2020-10-07

[21] **3,194,695**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06N 5/02 (2023.01)**

[25] EN
[54] **PROBABILISTIC GRAPHICAL NETWORKS**
[54] **RESEAUX GRAPHIQUES PROBABILISTES**
[72] KEHLER, THOMAS, US
[72] GUEHRS, MARKUS, US
[72] SINHA, SONALI, US
[71] CROWDSMART, INC., US
[85] 2023-04-03
[86] 2021-10-01 (PCT/US2021/053255)
[87] (WO2022/072896)
[30] US (63/086,542) 2020-10-01

[21] **3,194,696**
[13] A1

[51] **Int.Cl. G06F 16/36 (2019.01) G06F 16/2457 (2019.01) G06F 16/33 (2019.01)**

[25] EN
[54] **MANAGING AND MEASURING SEMANTIC COVERAGE IN KNOWLEDGE DISCOVERY PROCESSES**
[54] **GESTION ET MESURE D'UNE COUVERTURE SEMANTIQUE DANS DES PROCEDES DE DECOUVERTE DE CONNAISSANCES**
[72] KEHLER, THOMAS, US
[71] CROWDSMART, INC., US
[85] 2023-04-03
[86] 2021-10-01 (PCT/US2021/053254)
[87] (WO2022/072895)
[30] US (63/086,542) 2020-10-01

[21] **3,194,697**
[13] A1

[25] EN
[54] **SELECTIVE DELIVERY OF OLIGONUCLEOTIDES TO GLIAL CELLS**
[54] **ADMINISTRATION SELECTIVE D'OLIGONUCLEOTIDES A DES CELLULES GLIALES**
[72] JUNG, MAIRE, US
[72] GRIM, TRAVIS, US
[71] DICERNA PHARMACEUTICALS, INC., US
[85] 2023-04-03
[86] 2021-10-08 (PCT/US2021/071785)
[87] (WO2022/077024)
[30] US (63/089,406) 2020-10-08

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[21] **3,194,702**
[13] A1

[51] **Int.Cl. F23D 14/24 (2006.01) C10J 3/72 (2006.01) F23D 1/02 (2006.01) F23G 5/12 (2006.01)**

[25] EN

[54] **MULTI-FUEL ISOLATED IMPULSE INITIATOR AND MULTI-AUTOCLAVE LATERAL CONVERSION MODULE**

[54] **INITIATEUR D'IMPULSION ISOLE POLYCARBURANT ET MODULE DE CONVERSION LATERALE A AUTOCLAVE MULTIPLE**

[72] DECKER, EARL R., CA
[72] DECKER, GREGORY F., CA
[71] BRIGHT SAND, INC., US
[71] DECKER, EARL R., CA
[71] DECKER, GREGORY F., CA
[85] 2023-04-03
[86] 2021-10-05 (PCT/US2021/053654)
[87] (WO2022/076477)
[30] US (63/087,843) 2020-10-05
[30] US (17/450,016) 2021-10-05
[30] US (17/450,028) 2021-10-05

[21] **3,194,833**
[13] A1

[51] **Int.Cl. B03D 1/02 (2006.01) B01D 17/035 (2006.01) B03B 9/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR REMOVING DEBRIS AND ENTRAPPED AIR FROM BITUMEN**

[54] **APPAREIL ET PROCEDE D'ELIMINATION DE DEBRIS ET D'AIR PIEGE DANS DU BITUME**

[72] SMITHDORF, MARK NEVILLE, CA
[71] HOCS PROJECTS INC., CA
[85] 2023-04-04
[86] 2021-10-06 (PCT/CA2021/051405)
[87] (WO2022/073122)
[30] US (63/087,940) 2020-10-06

[21] **3,194,892**
[13] A1

[51] **Int.Cl. E02B 3/24 (2006.01)**

[25] EN

[54] **MOORING POLE**

[54] **MAT D'AMARRAGE**

[72] BARTOLI, MATTEO, IT
[72] IANNELLI, CLAUDIO, IT
[71] E-CONCEPT S.R.L., IT
[85] 2023-04-04
[86] 2021-09-30 (PCT/IB2021/058994)
[87] (WO2022/074519)
[30] IT (10202000023521) 2020-10-06

[21] **3,194,969**
[13] A1

[25] EN

[54] **INTERACTIVE ENERGY EFFECT ATTRACTION**

[54] **ATTRACTION A EFFET D'ENERGIE INTERACTIF**

[72] SILVA, GIULIANNA, US
[72] TRESAUGUE, MICHAEL, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2023-04-05
[86] 2021-10-25 (PCT/US2021/056445)
[87] (WO2022/093687)
[30] US (63/105,643) 2020-10-26

[21] **3,194,971**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) C08J 7/04 (2020.01) C09D 123/36 (2006.01)**

[25] EN

[54] **MAINTENANCE TREATMENTS USEFUL FOR IMPROVING THE PERFORMANCE OF AGED OR BRITTLE RESINOUS BINDERS IN PAVING OR ROOFING**

[54] **TRAITEMENTS DE MAINTENANCE UTILES POUR AMELIORER LES PERFORMANCES DE LIANTS RESINEUX VIEILLIS OU FRAGILES POUR LE PAVAGE OU LA COUVERTURE**

[72] WILLIAMS, RONALD CHRISTOPHER, US
[72] COCHRAN, ERIC W., US
[72] HUISMAN, THEODORE, US
[72] BUSS, ASHLEY F., US
[72] PINTO, IRVIN, US
[72] HERNANDEZ, NACU, US
[72] PODOLSKY, JOSEPH, US
[72] FORRESTER, MICHAEL J., US
[72] STAVER, MAXWELL D., US
[72] KUEHL, BAKER W., US
[72] HOHMANN, AUSTIN D., US
[71] IOWA STATE UNIVERSITY RESEARCH FOUNDATION, INC., US
[85] 2023-04-05
[86] 2021-10-12 (PCT/US2021/054549)
[87] (WO2022/081558)
[30] US (63/090,503) 2020-10-12

[21] **3,195,133**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/4174 (2006.01) A61K 45/06 (2006.01)**

[25] EN

[54] **TREATMENT OF BIPOLAR DISORDERS AND PSYCHOSIS USING DEXMEDETOMIDINE HYDROCHLORIDE**

[54] **TRAITEMENT DE TROUBLES BIPOLAIRES ET DE LA PSYCHOSE A L'AIDE DE CHLORHYDRATE DE DEXMEDETOMIDINE**

[72] YOCCA, FRANK, US
[72] RISINGER, ROBERT, US
[72] DE VIVO, MICHAEL, US
[72] POSTMA, FRISO, US
[71] BIOXCEL THERAPEUTICS, INC., US
[85] 2023-04-06
[86] 2021-10-08 (PCT/US2021/054171)
[87] (WO2022/076818)
[30] US (63/089,135) 2020-10-08

[21] **3,195,336**
[13] A1

[51] **Int.Cl. E21B 21/10 (2006.01) E21B 34/10 (2006.01) E21B 34/14 (2006.01)**

[25] EN

[54] **CIRCULATING VALVE AND ASSOCIATED SYSTEM AND METHOD**

[54] **VANNE DE CIRCULATION ET SYSTEME ET PROCEDE ASSOCIES**

[72] WATSON, BROCK W., US
[72] SCHULTZ, ROGER L., US
[72] TUCKER, JAMES C., US
[71] THRU TUBING SOLUTIONS, INC., US
[85] 2023-04-11
[86] 2021-09-08 (PCT/US2021/049346)
[87] (WO2022/081280)
[30] US (17/069,646) 2020-10-13

Demandes PCT entrant en phase nationale

[21] **3,195,337**
[13] A1

[51] **Int.Cl. A61B 18/04 (2006.01) A61B 34/20 (2016.01)**
[25] EN
[54] **SPINAL SURGERY APPARATUS**
[54] **APPAREIL DE CHIRURGIE RACHIDIENNE**
[72] VOIC, DAN, US
[71] MISONIX INCORPORATED, US
[85] 2023-04-11
[86] 2021-10-25 (PCT/US2021/056455)
[87] (WO2022/087523)
[30] US (63/105,331) 2020-10-25

[21] **3,195,338**
[13] A1

[51] **Int.Cl. B65D 71/42 (2006.01)**
[25] EN
[54] **ARTICLE CARRIERS AND BLANKS THEREFOR**
[54] **PORTE-ARTICLES ET EBAUCHES ASSOCIEES**
[72] PERRIN, DOMINQUE, FR
[72] TEILLOL, NICOLAS, FR
[72] MERZEAU, JULIEN, FR
[72] VOSGEOIS, CEDRIC, FR
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2023-04-11
[86] 2021-10-11 (PCT/US2021/054421)
[87] (WO2022/081480)
[30] US (63/090,499) 2020-10-12

[21] **3,195,340**
[13] A1

[51] **Int.Cl. A61M 5/24 (2006.01) A61M 5/28 (2006.01)**
[25] EN
[54] **INJECTION DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION D'INJECTION**
[72] GIAMBATTISTA, LUCIO, US
[71] L.G.P. TECHNOLOGY HOLDINGS LLC, US
[85] 2023-04-11
[86] 2021-10-11 (PCT/US2021/054424)
[87] (WO2022/076941)
[30] US (63/090,257) 2020-10-11

[21] **3,195,343**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 10/08 (2023.01) G06Q 30/02 (2023.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR AUTOMATICALLY PREDICTING OTIF RATES**
[54] **PROCEDES ET APPAREILS DE PREDICTION AUTOMATIQUE DE TAUX DE COMMANDES « A TEMPS ET AU COMPLET » (OTIF)**
[72] ALLEN, MICHAEL BARTLETT, US
[72] UVENCE, JAVIER GUZMAN, US
[72] SICA, NICOLAS MARTIN, US
[72] QUAN, JORGE HERNANDEZ, US
[71] WALMART APOLLO, LLC, US
[85] 2023-04-11
[86] 2020-10-15 (PCT/US2020/055809)
[87] (WO2022/081162)

[21] **3,195,344**
[13] A1

[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **IMPROVED ASSAYS TO QUANTIFY CHROMATIN TARGETS USING ANTIBODY-TARGETED ENZYME DIGESTION**
[54] **DOSAGES AMELIORES POUR QUANTIFIER DES CIBLES DE CHROMATINE A L'AIDE D'UNE DIGESTION ENZYMATIQUE CIBLEE PAR ANTICORPS**
[72] MARUNDE, MATTHEW R., US
[72] HALL, NATHAN W., US
[72] SUN, ZU-WEN, US
[72] COWLES, MARTIS W., US
[72] JOHNSTONE, ANDREA L., US
[72] KEOGH, MICHAEL-CHRISTOPHER, US
[72] WEINZAPFEL, ELLEN, US
[72] NOLL, KELSEY, US
[71] EPICYpher, INC., US
[85] 2023-04-11
[86] 2021-11-02 (PCT/US2021/057680)
[87] (WO2022/094449)
[30] US (63/108,578) 2020-11-02

[21] **3,195,355**
[13] A1

[51] **Int.Cl. C08G 18/48 (2006.01) C08K 3/013 (2018.01) C08G 18/10 (2006.01) C08G 18/12 (2006.01) C08G 18/20 (2006.01) C08G 18/28 (2006.01) C08G 18/30 (2006.01) C08G 18/42 (2006.01) C08G 18/71 (2006.01) C08G 18/76 (2006.01) C08G 18/78 (2006.01) C08G 18/79 (2006.01) C08K 3/04 (2006.01) C08K 3/34 (2006.01) C08K 3/26 (2006.01)**
[25] EN
[54] **ONE-COMPONENT POLYURETHANE ADHESIVE**
[54] **ADHESIF DE POLYURETHANE MONO-COMPOSANT**
[72] ZHU, HUIDE, US
[72] SOPHIEA, DANIEL, US
[72] CLARK, THOMAS, US
[72] FELDPAUSCH, MATTHEW, US
[71] DDP SPECIALTY ELECTRONIC MATERIALS US, LLC, US
[85] 2023-04-12
[86] 2021-08-18 (PCT/US2021/046487)
[87] (WO2022/081251)
[30] US (63/091,882) 2020-10-14

[21] **3,195,359**
[13] A1

[51] **Int.Cl. H04N 7/18 (2006.01)**
[25] EN
[54] **INTELLIGENT MOBILE OILFIELD ANALYTICS PLATFORM**
[54] **PLATE-FORME D'ANALYSE DE CHAMP PETROLIFERE MOBILE INTELLIGENTE**
[72] WESTERHEIDE, JOHN, US
[72] SHARBER, DUSTIN, US
[72] POTTS, JEFFREY, US
[72] JOSHI, MAHENDRA, US
[72] GE, XIAOQING, US
[72] VAN DAM, JEREMY, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/055035)
[87] (WO2022/081881)
[30] US (63/091,750) 2020-10-14

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[21] **3,195,361**
[13] A1

[51] **Int.Cl. B32B 15/04 (2006.01)**
[25] EN
[54] **COMPOSITE METALLIC PANEL**
[54] **PANNEAU METALLIQUE**
COMPOSITE
[72] HUANG, WENYI, US
[72] HERST, ERNEST, US
[72] BEACH, MARK, US
[71] DDP SPECIALTY ELECTRONIC
MATERIALS US 9, LLC, US
[85] 2023-04-12
[86] 2021-09-17 (PCT/US2021/050894)
[87] (WO2022/081296)
[30] US (63/091,356) 2020-10-14

[21] **3,195,371**
[13] A1

[51] **Int.Cl. H04L 25/03 (2006.01)**
[25] EN
[54] **NON-LINEAR NEURAL**
NETWORK EQUALIZER FOR
HIGH-SPEED DATA CHANNEL
[54] **EGALISEUR DE RESEAU**
NEURONAL NON LINEAIRE
POUR CANAL DE DONNEES A
GRANDE VITESSE
[72] NANGARE, NITIN, US
[71] MARVELL ASIA PTE, LTD., SG
[85] 2023-04-12
[86] 2021-02-02 (PCT/US2021/016141)
[87] (WO2022/103422)
[30] US (63/112,504) 2020-11-11

[21] **3,195,372**
[13] A1

[51] **Int.Cl. B41J 2/175 (2006.01) G03G**
15/08 (2006.01) H04N 1/00 (2006.01)
H04N 1/60 (2006.01)
[25] EN
[54] **COLOR MAP WRAPPERS AND**
PACKETS
[54] **ENVELOPPEURS DE PALETTE DE**
COULEURS ET PAQUETS
[72] NICHOLS, STEPHEN J., US
[72] KERBY, GEORGE HENRY, US
[71] HEWLETT-PACKARD
DEVELOPMENT COMPANY, L.P.,
US
[85] 2023-04-12
[86] 2020-10-29 (PCT/US2020/057917)
[87] (WO2022/093228)

[21] **3,195,379**
[13] A1

[51] **Int.Cl. E21B 10/573 (2006.01) E21B**
10/54 (2006.01) E21B 10/60 (2006.01)
[25] EN
[54] **EARTH-BORING TOOL**
GEOMETRY AND CUTTER
PLACEMENT AND ASSOCIATED
APPARATUS AND METHODS
[54] **GEOMETRIE D'OUTIL DE**
FORAGE ET PLACEMENT DE
DISPOSITIF DE COUPE, ET
APPAREIL ET PROCEDES
ASSOCIES
[72] MORIN, JOHN, US
[71] BAKER HUGHES OILFIELD
OPERATIONS LLC, US
[85] 2023-04-12
[86] 2021-08-13 (PCT/US2021/045980)
[87] (WO2022/081246)
[30] US (17/071,844) 2020-10-15

[21] **3,195,382**
[13] A1

[51] **Int.Cl. F21K 9/66 (2016.01) F21K 9/69**
(2016.01) F21S 4/28 (2016.01) F21V
17/10 (2006.01)
[25] EN
[54] **LOUVERED OPTICS FOR LINEAR**
LIGHTING
[54] **OPTIQUES A PERSIENNES POUR**
ECLAIRAGE LINEAIRE
[72] GREENSPAN, DAVID, US
[72] GREEN, ROBERT, US
[72] IRONS, TRAVIS, US
[71] ELEMENTAL LED, INC., US
[85] 2023-04-12
[86] 2021-08-11 (PCT/US2021/045498)
[87] (WO2022/098409)
[30] US (17/088,501) 2020-11-03

[21] **3,195,386**
[13] A1

[51] **Int.Cl. A61K 9/48 (2006.01) A61K**
47/12 (2006.01) A61K 47/34 (2017.01)
[25] EN
[54] **CONTROLLED RELEASE FILL**
COMPOSITIONS AND CAPSULES
CONTAINING SAME
[54] **COMPOSITIONS DE**
REMPLISSAGE A LIBERATION
CONTROLEE ET CAPSULES LES
CONTENANT
[72] FANG, QI, US
[72] SUKURU, KARUNAKAR, US
[71] R.P. SCHERER TECHNOLOGIES,
LLC, US
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/054991)
[87] (WO2022/081848)
[30] US (63/092,679) 2020-10-16

[21] **3,195,392**
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A61K**
8/42 (2006.01) A61K 8/44 (2006.01)
A61K 8/46 (2006.01) A61K 8/73
(2006.01)
[25] EN
[54] **WASH COMPOSITION**
[54] **COMPOSITION DE NETTOYAGE**
[72] DASGUPTA, BIVASH RANJAN, US
[72] FOY, VICKIE J, US
[72] MOADDEL, TEANOOSH, US
[71] UNILEVER GLOBAL IP LIMITED,
GB
[85] 2023-04-12
[86] 2021-11-05 (PCT/EP2021/080746)
[87] (WO2022/101097)
[30] EP (20207496.9) 2020-11-13

[21] **3,195,395**
[13] A1

[51] **Int.Cl. H04B 7/024 (2017.01) H04B**
7/06 (2006.01)
[25] EN
[54] **ACTIVE-COORDINATION-SET**
BEAM FAILURE RECOVERY
[54] **REPRISE SUR DEFAILLANCE DE**
FAISCEAU POUR ENSEMBLE DE
COORDINATION ACTIVE
[72] WANG, JIBING, US
[72] STAUFFER, ERIK RICHARD, US
[71] GOOGLE LLC, US
[85] 2023-04-12
[86] 2021-09-29 (PCT/US2021/052672)
[87] (WO2022/081340)
[30] US (63/091,000) 2020-10-13

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[21] **3,195,397**
[13] A1

[51] **Int.Cl. G05B 13/04 (2006.01) G05B 19/418 (2006.01) G05B 23/02 (2006.01)**

[25] EN

[54] **ONLINE FREQUENTLY DERIVED MEASUREMENTS FOR PROCESS MONITORING, CONTROL AND OPTIMIZATION**

[54] **MESURES FREQUEMMENT DERIVEES EN LIGNE POUR LA SURVEILLANCE, LA COMMANDE ET L'OPTIMISATION DE PROCESSUS**

[72] LIU, CHANGYUAN, US
[72] STANLEY III, DONALD RAY, US
[72] STEIGER, ANDREW DANIEL, US
[71] ABB SCHWEIZ AG, CH
[85] 2023-04-12
[86] 2021-10-15 (PCT/IB2021/059520)
[87] (WO2022/079686)
[30] US (17/071,377) 2020-10-15

[21] **3,195,400**
[13] A1

[51] **Int.Cl. B64D 11/02 (2006.01)**

[25] EN

[54] **DISCHARGE VALVE FOR AN AIRCRAFT AND ASSOCIATED METHOD**

[54] **VANNE DE VIDANGE POUR AERONEF ET PROCEDE ASSOCIE**

[72] SINDEZINGUE, DENIS, FR
[72] COSOLETO, DAVID, FR
[72] BOURBON, PATRICK, FJ
[71] SAFRAN AEROSYSTEMS FLUID, FR
[85] 2023-04-12
[86] 2021-10-15 (PCT/FR2021/051803)
[87] (WO2022/079398)
[30] FR (FR2010536) 2020-10-15

[21] **3,195,403**
[13] A1

[51] **Int.Cl. E21B 7/24 (2006.01) E21B 21/10 (2006.01)**

[25] EN

[54] **IMPROVED APPARATUS AND METHOD FOR CREATING TUNABLE PRESSURE PULSE**

[54] **APPAREIL ET PROCEDE AMELIORES POUR CREER UNE IMPULSION DE PRESSION ACCORDABLE**

[72] CAMPBELL, JOSH, CA
[72] FAY, CHRISTIAN, CA
[71] ANDERSON, CHARLES ABERNETHY, CA
[85] 2023-04-12
[86] 2021-10-25 (PCT/CA2021/051496)
[87] (WO2022/087721)
[30] US (63/105,485) 2020-10-26

[21] **3,195,404**
[13] A1

[51] **Int.Cl. A61B 3/02 (2006.01) A61B 3/028 (2006.01) A61B 3/06 (2006.01) A61B 3/113 (2006.01) A61B 3/18 (2006.01) G02F 1/01 (2006.01) H04N 1/60 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR TESTING FOR COLOR VISION LOSS**

[54] **PROCEDE ET APPAREIL DE TEST DE PERTE DE LA VISION DES COULEURS**

[72] NORDSTROM, CHERYL, US
[71] INNOVA SYSTEMS, INC., US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/071824)
[87] (WO2022/082171)
[30] US (17/068,417) 2020-10-12
[30] US (63/262,416) 2021-10-12

[21] **3,195,406**
[13] A1

[51] **Int.Cl. A61P 23/02 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS FOR USE IN THE MANAGEMENT AND TREATMENT OF PAIN**

[54] **COMPOSITIONS PHARMACEUTIQUES DESTINEES A ETRE UTILISEES DANS LA GESTION ET LE TRAITEMENT DE LA DOULEUR**

[72] KANDULA, MAHESH, IN
[71] CELLIX BIO PRIVATE LIMITED, IN
[85] 2023-04-12
[86] 2021-11-20 (PCT/IB2021/060776)
[87] (WO2022/107084)
[30] IN (202041050763) 2020-11-21

[21] **3,195,407**
[13] A1

[51] **Int.Cl. A23C 9/18 (2006.01) A23F 3/32 (2006.01) A23F 5/12 (2006.01) A23G 1/56 (2006.01)**

[25] EN

[54] **CAPSULE FOR PREPARING A BEVERAGE AND METHOD FOR THE PRODUCTION AND USE THEREOF**

[54] **CAPSULE POUR LA PREPARATION D'UNE BOISSON ET SON PROCEDE DE PRODUCTION ET D'UTILISATION**

[72] SIEFARTH, CAROLINE, CH
[72] NOEVER, CHRISTINA SOPHIE, CH
[72] STEINBRUCKNER, KATHRIN, CH
[72] THILLA, TIM, DE
[72] AFFOLTER, ROLAND, CH
[71] DELICA AG, CH
[85] 2023-04-12
[86] 2021-10-08 (PCT/EP2021/077844)
[87] (WO2022/078896)
[30] EP (20201868.5) 2020-10-14

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[21] **3,195,411**
[13] A1

[25] EN
[54] **DETECTION, TREATMENT, AND MONITORING OF MICROBIOME-DEPENDENT GASTROINTESTINAL DISCOMFORT**
[54] **DETECTION, TRAITEMENT ET SUIVI DE L'INCONFORT GASTRO-INTESTINAL DEPENDANT DU MICROBIOME**
[72] MCLAREN, DEREK, CA
[72] MCLAREN, DEREK, CA
[71] MCPHARMA BIOTECH INC., CA
[85] 2023-04-12
[86] 2021-10-14 (PCT/CA2021/051443)
[87] (WO2022/077111)
[30] US (63/092,605) 2020-10-16

[21] **3,195,416**
[13] A1

[51] **Int.Cl. G02B 1/11 (2015.01)**
[25] EN
[54] **ANTI-REFLECTION WITH INTERCONNECTED STRUCTURES**
[54] **ANTIREFLET AVEC STRUCTURES INTERCONNECTEES**
[72] CHENG, CHIA-HUNG CALVIN, CA
[72] DAUZOU, FABIEN PAUL JACQUES, CA
[72] KASHI, SIAMAK, CA
[72] SAHRAEI KHANGHAH, NASIM, CA
[71] EDGEHOG ADVANCED TECHNOLOGIES INC., CA
[85] 2023-04-12
[86] 2021-10-26 (PCT/CA2021/051507)
[87] (WO2022/087727)
[30] US (63/105,673) 2020-10-26

[21] **3,195,417**
[13] A1

[51] **Int.Cl. B64C 25/12 (2006.01)**
[25] FR
[54] **AIRCRAFT LANDING GEAR PROVIDED WITH A LEAF SPRING LOCKING DEVICE**
[54] **ATTERRISSEUR D'AERONEF EQUIPE D'UN DISPOSITIF DE VERROUILLAGE A RESSORT A LAME**
[72] CASTELLAN, CLEMENT, FR
[72] CAPURRO, MATTEO, FR
[72] BLANPAIN, THIERRY, FR
[72] NGUYEN, NICOLAS, FR
[71] SAFRAN LANDING SYSTEMS, FR
[85] 2023-04-12
[86] 2021-10-14 (PCT/EP2021/078485)
[87] (WO2022/079187)
[30] FR (2010523) 2020-10-14

[21] **3,195,418**
[13] A1

[51] **Int.Cl. C10G 1/10 (2006.01) C10G 1/06 (2006.01) C10G 11/18 (2006.01) C10G 45/38 (2006.01)**
[25] EN
[54] **CO-PROCESSING ROUTE FOR HYDROTREATING POLYMER WASTE-BASED MATERIAL**
[54] **VOIE DE CO-TRAITEMENT POUR L'HYDROTRAITEMENT D'UN MATERIAU A BASE DE DECHETS POLYMERES**
[72] AALTO, PEKKA, FI
[72] JANSSON, KARI, FI
[72] PAASIKALLIO, VILLE, FI
[72] PEREZ NEBREDA, ANDREA, FI
[72] SAIRANEN, EMMA, FI
[71] NESTE OYJ, FI
[85] 2023-04-12
[86] 2021-12-16 (PCT/FI2021/050884)
[87] (WO2022/144495)
[30] FI (20206383) 2020-12-30

[21] **3,195,419**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**
[25] EN
[54] **HEADWEAR ARTICLES THAT ARE SELECTIVELY CONVERTIBLE TO A MASK CONFIGURATION**
[54] **ARTICLES DE CASQUE CONVERTIBLES SELECTIVEMENT EN UNE CONFIGURATION DE MASQUE**
[72] MORAN, PHILLIP ALEXANDER, US
[71] MORAN, PHILLIP ALEXANDER, US
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/054731)
[87] (WO2022/081676)
[30] US (63/091,016) 2020-10-13
[30] US (63/180,974) 2021-04-28

[21] **3,195,421**
[13] A1

[51] **Int.Cl. G01N 21/95 (2006.01) B21D 53/24 (2006.01)**
[25] EN
[54] **AUTOMATED EVALUATION OF USED SCREWS**
[54] **EVALUATION AUTOMATISEE DE VIS USEES**
[72] STAMMLER, MATTHIAS, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2023-04-12
[86] 2021-10-27 (PCT/EP2021/079800)
[87] (WO2022/090303)
[30] DE (10 2020 213 694.7) 2020-10-30

[21] **3,195,422**
[13] A1

[51] **Int.Cl. A61K 31/439 (2006.01) A61K 31/4409 (2006.01) A61K 47/10 (2017.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR STORAGE STABLE OPHTHALMIC DRUGS**
[54] **COMPOSITIONS ET PROCEDES POUR DES MEDICAMENTS OPHTALMIQUES STABLES AU STOCKAGE**
[72] HORN, GERALD, US
[71] LENZ THERAPEUTICS, INC., US
[85] 2023-04-12
[86] 2021-04-28 (PCT/US2021/029536)
[87] (WO2022/081204)
[30] US (17/069,155) 2020-10-13

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[21] **3,195,424**
[13] A1

[51] **Int.Cl. A61L 9/20 (2006.01)**
[25] FR
[54] **CEILING STRUCTURE AND FACILITY COMPRISING SUCH A CEILING STRUCTURE COMPRISING AIR STERILISATION MEANS**
[54] **STRUCTURE DE PLAFOND ET INSTALLATION COMPRENANT UNE TELLE STRUCTURE DE PLAFOND COMPRENANT DES MOYENS DE STERILISATION DE L'AIR**
[72] SCHERRER, JEAN-MARC, FR
[72] LANG, DAMIEN, FR
[71] SCHERRER, JEAN-MARC, FR
[71] LANG, DAMIEN, FR
[85] 2023-04-12
[86] 2021-10-13 (PCT/FR2021/051777)
[87] (WO2022/079388)
[30] FR (FR2010441) 2020-10-13

[21] **3,195,425**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL**
[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL**
[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[72] BERJE, JURGEN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-12
[86] 2021-10-07 (PCT/EP2021/077678)
[87] (WO2022/084052)
[30] EP (20202970.8) 2020-10-21

[21] **3,195,426**
[13] A1

[51] **Int.Cl. F23C 1/08 (2006.01) F23C 5/06 (2006.01)**
[25] EN
[54] **VARIABLE-DIRECTION INJECTOR TIP AND BURNER INCORPORATING THE SAME**
[54] **POINTE D'INJECTEUR A DIRECTION VARIABLE ET BRULEUR L'INCORPORANT**
[72] LIFSHITS, VLADIMIR, US
[72] WHELAN, MATT, US
[72] NACKOS, AARON, US
[71] JOHN ZINK COMPANY, LLC, US
[85] 2023-04-12
[86] 2021-09-16 (PCT/IB2021/058467)
[87] (WO2022/079518)
[30] US (63/090,726) 2020-10-13

[21] **3,195,428**
[13] A1

[51] **Int.Cl. A61K 47/66 (2017.01) C07K 16/22 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY OF MDNA55 AND A VASCULAR ENDOTHELIAL GROWTH FACTOR A (VEGF-A)**
[54] **POLYTHERAPIE DE MDNA55 ET D'UN FACTEUR DE CROISSANCE VASCULAIRE ENDOTHELIALE A (VEGF-A)**
[72] MERCHANT, FAHAR, CA
[71] MEDICENNA THERAPEUTICS, INC., CA
[85] 2023-04-12
[86] 2021-10-12 (PCT/CA2021/051433)
[87] (3195428)
[30] US (63/090,663) 2020-10-12

[21] **3,195,438**
[13] A1

[51] **Int.Cl. B65B 9/22 (2006.01) B65B 9/06 (2012.01)**
[25] EN
[54] **HORIZONTAL FORMING DEVICE**
[54] **DISPOSITIF DE MISE EN FORME HORIZONTAL**
[72] LOPES, MICHAEL, CH
[71] SYNTEGON PACKAGING SYSTEMS AG, CH
[85] 2023-04-12
[86] 2021-10-15 (PCT/EP2021/078662)
[87] (WO2022/079268)
[30] DE (10 2020 127 376.2) 2020-10-16

[21] **3,195,439**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 29/88 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL**
[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL**
[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-12
[86] 2021-10-07 (PCT/EP2021/077737)
[87] (WO2022/084057)
[30] EP (20202993.0) 2020-10-21

[21] **3,195,442**
[13] A1

[51] **Int.Cl. C12N 15/87 (2006.01) C12N 15/113 (2010.01) A61K 9/51 (2006.01) A61K 31/7088 (2006.01) A61K 47/42 (2017.01) C12N 7/08 (2006.01) C12N 15/10 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **PEPTIDE-BASED TRANSDUCTION OF NON-ANIONIC POLYNUCLEOTIDE ANALOGS FOR GENE EXPRESSION MODULATION**
[54] **TRANSDUCTION A BASE DE PEPTIDES D'ANALOGUES DE POLYNUCLEOTIDES NON ANIONIQUES POUR LA MODULATION DE L'EXPRESSION GENIQUE**
[72] LEPETIT-STOFFAES, JEAN-PASCAL, CA
[72] MESSIER, NANCY, CA
[72] GUAY, DAVID, CA
[72] DEL'GUIDICE, THOMAS, CA
[72] BARBEAU, XAVIER, CA
[72] HALLEE, STEPHANIE, CA
[71] FELDAN BIO INC., CA
[85] 2023-04-12
[86] 2021-10-18 (PCT/CA2021/051458)
[87] (WO2022/077121)
[30] US (63/093,295) 2020-10-18
[30] US (63/104,263) 2020-10-22

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[21] **3,195,443**
[13] A1

[51] **Int.Cl. G06F 15/163 (2006.01)**
[25] EN
[54] **DISAGGREGATED BORDER GATEWAY PROTOCOL (BGP)**
[54] **PROTOCOLE DE PASSERELLE FRONTIERE (BGP) DESAGREGE**
[72] MURAKAMI, TETSUYA, US
[72] RAJARAMAN, KALYANI, US
[72] PATEL, KEYUR, US
[71] ARRCUS INC., US
[85] 2023-04-12
[86] 2021-10-18 (PCT/US2021/055474)
[87] (WO2022/086878)
[30] US (17/078,827) 2020-10-23

[21] **3,195,445**
[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 23/04 (2006.01) E21B 27/02 (2006.01)**
[25] EN
[54] **PAYLOAD DEPLOYMENT TOOLS AND METHODS OF USING SAME**
[54] **OUTILS DE DEPLOIEMENT DE CHARGE UTILE ET LEURS PROCEDES D'UTILISATION**
[72] THOMASON, JOHN TYLER, US
[71] THOMASON, JOHN TYLER, US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/071822)
[87] (WO2022/082169)
[30] US (17/069,909) 2020-10-14

[21] **3,195,446**
[13] A1

[51] **Int.Cl. A61K 47/66 (2017.01)**
[25] EN
[54] **PNA PROBES FOR PRETARGETED IMAGING AND THERAPY**
[54] **SONDES PNA POUR IMAGERIE ET THERAPIE PRECIBLEES**
[72] ERIKSSON KARLSTROM, AMELIE, SE
[72] WESTERLUND, KRISTINA, SE
[72] TANO, HANNA, SE
[71] ZYTOX THERAPEUTICS AB, SE
[85] 2023-04-12
[86] 2021-10-18 (PCT/EP2021/078854)
[87] (WO2022/079321)
[30] SE (2051204-2) 2020-10-16

[21] **3,195,448**
[13] A1

[51] **Int.Cl. A61K 47/55 (2017.01) A61K 31/5513 (2006.01) A61K 31/675 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01) C07D 519/00 (2006.01) C07F 9/6561 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TARGETED PROTEIN DEGRADATION**
[54] **METHODES ET COMPOSITIONS POUR LA DEGRADATION CIBLEE DE PROTEINES**
[72] YING, WEIWEN, US
[72] FOLEY, KEVIN PAUL, US
[72] YIN, WEI, CN
[72] YE, LONG, CN
[72] WANG, MINGKAI, CN
[72] YING, CHENGHAO, CN
[72] ZHANG, LINGJIE, CN
[71] RANOK THERAPEUTICS (HANGZHOU) CO. LTD., CN
[85] 2023-04-12
[86] 2021-10-12 (PCT/CN2021/123366)
[87] (WO2022/078350)
[30] CN (PCT/CN2020/120911) 2020-10-14

[21] **3,195,449**
[13] A1

[25] EN
[54] **CONTACTLESS BEVERAGE DISPENSERS AND CONTACTLESS BEVERAGE DISPENSING METHODS**
[54] **DISTRIBUTEURS DE BOISSONS SANS CONTACT ET PROCEDES DE DISTRIBUTION DE BOISSONS SANS CONTACT**
[72] LJUNGGREN, ANTON, US
[72] CIMATTI, MARCO, US
[72] BROEN, MARTIN EDUARDO, US
[72] CATES, JACOB MICHAEL, US
[72] TAYLOR, ADRIAN, US
[72] TOBIN, CORY, US
[71] PEPSICO., INC., US
[85] 2023-04-12
[86] 2021-09-24 (PCT/US2021/051875)
[87] (WO2022/081324)
[30] US (17/069,505) 2020-10-13

[21] **3,195,450**
[13] A1

[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/20 (2006.01)**
[25] EN
[54] **MEDICAMENT DELIVERY DEVICE**
[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENTS**
[72] HOLMQVIST, ANDERS, SE
[71] SHAILY (UK) LTD, GB
[85] 2023-04-12
[86] 2021-11-11 (PCT/GB2021/052912)
[87] (WO2022/101626)
[30] SE (2051331-3) 2020-11-13

[21] **3,195,451**
[13] A1

[51] **Int.Cl. G06V 20/70 (2022.01) G06N 20/00 (2019.01) B64F 1/36 (2017.01) G01B 21/02 (2006.01) G01D 21/02 (2006.01) G01S 5/02 (2010.01) G08G 9/02 (2006.01)**
[25] EN
[54] **IMAGE LABELLING SYSTEM AND METHOD THEREFOR**
[54] **SYSTEME DE MARQUAGE D'IMAGE ET PROCEDE ASSOCIE**
[72] RYAN, SID, CA
[71] SITA INFORMATION NETWORKING COMPUTING CANADA INC., CA
[85] 2023-04-12
[86] 2021-10-18 (PCT/CA2021/051463)
[87] (WO2022/082301)
[30] EP (20202528.4) 2020-10-19

[21] **3,195,453**
[13] A1

[25] EN
[54] **POSITIONING DEVICE FOR A POSITIONING SYSTEM**
[54] **DISPOSITIF DE POSITIONNEMENT POUR UN SYSTEME DE POSITIONNEMENT**
[72] SUNDSTROM, ERIK, SE
[71] ZEROFIX AB, SE
[85] 2023-04-12
[86] 2021-10-11 (PCT/EP2021/078054)
[87] (WO2022/084086)
[30] EP (20203059.9) 2020-10-21
[30] SE (2051226-5) 2020-10-21

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[21] **3,195,454**
[13] A1

[25] FR
[54] **TYRE HAVING A TREAD MADE UP OF MULTIPLE ELASTOMERIC COMPOUNDS**
[54] **PNEUMATIQUE COMPORTANT UNE BANDE DE ROULEMENT CONSTITUEE DE PLUSIEURS MELANGES ELASTOMERIQUES**
[72] HEBERT, STEPHANE, FR
[72] FERRAND, THOMAS, FR
[72] COSTE, NATHALIE, FR
[72] MANSUY, PHILIPPE, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2023-04-12
[86] 2021-10-15 (PCT/FR2021/051797)
[87] (WO2022/084607)
[30] FR (2010699) 2020-10-19

[21] **3,195,455**
[13] A1

[51] **Int.Cl. A01H 5/02 (2018.01) A01H 6/28 (2018.01)**
[25] EN
[54] **CANNABIS PLANT WITH INCREASED CANNABICHROMENIC ACID**
[54] **PLANTE DE CANNABIS A TENEUR ACCRUE EN ACIDE CANNABICHROMIQUE**
[72] FOWLER, DANIEL KEVIN, US
[71] CANOPY GROWTH CORPORATION, CA
[71] FOWLER, DANIEL KEVIN, US
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/054744)
[87] (WO2022/081681)
[30] US (63/091,057) 2020-10-13

[21] **3,195,456**
[13] A1

[51] **Int.Cl. G16H 20/17 (2018.01) G16H 20/60 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM OF CLOSED LOOP CONTROL IMPROVING GLYCEMIC RESPONSE FOLLOWING AN UNANNOUNCED SOURCE OF GLYCEMIC FLUCTUATION**
[54] **PROCEDE ET SYSTEME DE COMMANDE EN BOUCLE FERMEE AMELIORANT LA REACTION GLYCEMIQUE A LA SUITE D'UNE SOURCE IMPREVUE DE FLUCTUATION GLYCEMIQUE**
[72] BRETON, MARC D., US
[72] GARCIA-TIRADO, JOSE, US
[72] LV, DAYU, US
[72] CORBETT, JOHN, US
[72] COLMEGNA, PATRICIO, US
[72] DIAZ-CASTANEDA, JENNY, US
[71] UNIVERSITY OF VIRGINIA PATENT FOUNDATION, US
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/054894)
[87] (WO2022/081788)
[30] US (63/091,646) 2020-10-14

[21] **3,195,457**
[13] A1

[51] **Int.Cl. A61K 47/55 (2017.01) A61K 47/54 (2017.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/4745 (2006.01) A61K 31/704 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TARGETED PROTEIN DEGRADATION**
[54] **METHODES ET COMPOSITIONS POUR LA DEGRADATION DE PROTEINES CIBLEES**
[72] YING, WEIWEN, US
[72] FOLEY, KEVIN PAUL, US
[72] YE, LONG, CN
[72] WANG, MINGKAI, CN
[72] YING, CHENGHAO, CN
[72] YIN, WEI, CN
[72] ZHANG, LINGJIE, CN
[71] RANOK THERAPEUTICS (HANGZHOU) CO. LTD., CN
[85] 2023-04-12
[86] 2021-10-14 (PCT/CN2021/123935)
[87] (WO2022/078470)
[30] CN (PCT/CN2020/120945) 2020-10-14

[21] **3,195,458**
[13] A1

[51] **Int.Cl. B01J 37/02 (2006.01)**
[25] EN
[54] **FISCHER-TROPSCH CATALYST CONTAINING AT LEAST 40 WEIGHT % COBALT, FISCHER-TROPSCH METHOD USING IT AND METHOD FOR MAKING IT**
[54] **CATALYSEUR FISCHER-TROPSCH CONTENANT AU MOINS 40 % EN POIDS DE COBALT, PROCEDE FISCHER-TROPSCH L'UTILISANT ET SON PROCEDE DE FABRICATION**
[72] LEONARDUZZI, DANIELE, GB
[72] ROBERTS, DIARMID, GB
[72] PRITCHARD, JAY, GB
[72] ROBOTA, HEINZ J., US
[71] VELOCYS TECHNOLOGIES LIMITED, GB
[85] 2023-04-12
[86] 2021-10-01 (PCT/EP2021/077171)
[87] (WO2022/078782)
[30] US (63/091,097) 2020-10-13
[30] GB (2017710.1) 2020-11-10
[30] US (63/211,804) 2021-06-17
[30] GB (2109611.0) 2021-07-02

[21] **3,195,460**
[13] A1

[51] **Int.Cl. A61K 8/64 (2006.01) A61L 27/22 (2006.01) A61L 27/34 (2006.01) A61L 27/36 (2006.01)**
[25] EN
[54] **COATED HAIR AND USE THEREOF**
[54] **CHEVEUX REVETUS ET LEUR UTILISATION**
[72] STRAUCH, GEORG, DE
[71] STRAUCH, GEORG, DE
[85] 2023-04-12
[86] 2021-10-19 (PCT/EP2021/078898)
[87] (WO2022/084285)
[30] EP (20202744.7) 2020-10-20

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[21] **3,195,461**
[13] A1

[51] **Int.Cl. C01B 3/34 (2006.01) C01B 3/36 (2006.01) C25B 1/04 (2021.01)**
[25] EN
[54] **GASIFICATION PROCESS**
[54] **PROCEDE DE GAZEIFICATION**
[72] GREAGER, IVAN, US
[72] HARRIS, ROGER, US
[72] HAVENGA, RUDOLPH, GB
[72] KING, NEIL ALEXANDER, GB
[71] VELOCYS TECHNOLOGIES LTD, GB
[85] 2023-04-12
[86] 2021-10-08 (PCT/EP2021/077949)
[87] (WO2022/078915)
[30] US (63/091,685) 2020-10-14
[30] GB (2018119.4) 2020-11-18

[21] **3,195,462**
[13] A1

[51] **Int.Cl. H04B 1/3888 (2015.01)**
[25] EN
[54] **APPARATUS FOR PROVIDING EMERGENCY FEATURE ACTIVATION FOR MOBILE ELECTRONIC DEVICES**
[54] **APPAREIL POUR FOURNIR UNE ACTIVATION DE FONCTION D'URGENCE POUR DISPOSITIFS ELECTRONIQUES MOBILES**
[72] BARNETT, DAVID B., US
[71] POPSOCKETS LLC, US
[85] 2023-04-12
[86] 2021-10-15 (PCT/US2021/055164)
[87] (WO2022/086811)
[30] US (63/105,145) 2020-10-23

[21] **3,195,463**
[13] A1

[51] **Int.Cl. A61P 31/12 (2006.01)**
[25] EN
[54] **WW-DOMAIN-ACTIVATED EXTRACELLULAR VESICLES TARGETING CORONAVIRUSES**
[54] **VESICULES EXTRACELLULAIRES ACTIVEES PAR LE DOMAINE WW CIBLANT DES CORONAVIRUS**
[72] LU, QUAN, US
[72] CHOI, SENGJIN, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2023-04-12
[86] 2021-10-15 (PCT/US2021/055154)
[87] (WO2022/081954)
[30] US (63/093,107) 2020-10-16

[21] **3,195,464**
[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TARGETED PROTEIN DEGRADATION**
[54] **METHODES ET COMPOSITIONS POUR LA DEGRADATION DE PROTEINES CIBLEES**
[72] YING, WEIWEN, US
[72] FOLEY, KEVIN PAUL, US
[72] WANG, MINGKAI, CN
[72] YING, CHENGHAO, CN
[72] YE, LONG, CN
[72] YIN, WEI, CN
[72] ZHANG, LINGJIE, CN
[71] RANOK THERAPEUTICS (HANGZHOU) CO. LTD., CN
[85] 2023-04-12
[86] 2021-10-13 (PCT/CN2021/123660)
[87] (WO2022/078414)
[30] CN (PCT/CN2020/120927) 2020-10-14

[21] **3,195,465**
[13] A1

[51] **Int.Cl. C07D 417/14 (2006.01)**
[25] EN
[54] **SUCCINATE AND CRYSTAL FORM THEREOF AS THERAPEUTICS**
[54] **SUCCINATE ET SA FORME CRISTALLINE UTILISES EN TANT QU'AGENTS THERAPEUTIQUES**
[72] WANG, SHUDONG, AU
[72] WANG, HUI, CN
[72] LV, JINCHEN, CN
[72] LIU, JUN, CN
[71] AUCENTRA THERAPEUTICS PTY LTD, AU
[85] 2023-04-12
[86] 2021-11-10 (PCT/AU2021/051325)
[87] (WO2022/099357)
[30] CN (202011249267.6) 2020-11-10

[21] **3,195,467**
[13] A1

[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6804 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **NUCLEIC ACID AMPLIFICATION SYSTEM AND METHOD THEREOF**
[54] **SYSTEME D'AMPLIFICATION D'ACIDE NUCLEIQUE ET SON PROCEDE**
[72] WU, MIN-HSIEN, CN
[72] CHEN, CHIH-YU, CN
[71] CHANG GUNG UNIVERSITY, CN
[85] 2023-04-12
[86] 2020-11-25 (PCT/CN2020/131461)
[87] (WO2022/109863)

[21] **3,195,468**
[13] A1

[25] EN
[54] **SYSTEMS AND APPARATUSES FOR PORTABLE AIR DISTRIBUTION**
[54] **SYSTEMES ET APPAREILS DE DISTRIBUTION D'AIR PORTABLES**
[72] YOUMAN, BENJAMIN, US
[71] CONSTELLATION ENERGY GENERATION, LLC, US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054561)
[87] (WO2022/081563)
[30] US (17/069,451) 2020-10-13

[21] **3,195,469**
[13] A1

[51] **Int.Cl. B09B 3/00 (2022.01)**
[25] EN
[54] **A VARIABLE SYSTEM FOR PROCESSING, TREATMENT AND USE OF WASTE**
[54] **SYSTEME VARIABLE DE TRANSFORMATION, TRAITEMENT ET UTILISATION DE DECHETS**
[72] STEHLIK, TOMAS, CZ
[71] TERDESOL SE, CZ
[85] 2023-04-12
[86] 2021-10-12 (PCT/IB2021/059316)
[87] (WO2022/079578)
[30] CZ (PV 2020-566) 2020-10-16

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[21] **3,195,470**
[13] A1

[25] EN
[54] **ROBOT WATCHDOG**
[54] **CHIEN DE GARDE POUR ROBOT**
[72] STOIANOVICI, DAN, US
[72] PETRISOR, DORU, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054586)
[87] (WO2022/081577)
[30] US (63/090,464) 2020-10-12

[21] **3,195,471**
[13] A1

[25] EN
[54] **IMAGE COMPOUNDING FOR MIXED TRANSDUCER ARRAYS**
[54] **COMPOSITION D'IMAGE POUR RESEAUX DE TRANSDUCTEURS MIXTES**
[72] ZHU, LIREN, US
[72] ZHAO, DANHUA, US
[71] DEEPSIGHT TECHNOLOGY, INC., US
[85] 2023-04-12
[86] 2021-10-21 (PCT/US2021/056096)
[87] (WO2022/087301)
[30] US (63/104,886) 2020-10-23

[21] **3,195,472**
[13] A1

[25] EN
[54] **COMPUTING AN EXPLAINABLE EVENT HORIZON ESTIMATE**
[54] **CALCUL D'UNE ESTIMATION D'HORIZON DES EVENEMENTS EXPLICABLE**
[72] PRITCHARD, PETER NICHOLAS, US
[72] KLEMME, BEVERLY, US
[72] KEARNS, DANIEL, US
[72] MEHTA, NIKUNJ R., US
[72] KARANJGAOKAR, DEEKSHA, US
[71] FALKONRY INC., US
[85] 2023-04-12
[86] 2021-10-04 (PCT/US2021/053363)
[87] (WO2022/081368)
[30] US (17/071,216) 2020-10-15

[21] **3,195,473**
[13] A1

[51] **Int.Cl. A61P 35/04 (2006.01)**
[25] EN
[54] **METHOD OF TREATING CANCERS WITH ALKYNE SUBSTITUTED QUINAZOLINE DERIVATIVES**
[54] **METHODE DE TRAITEMENT DE CANCERS UTILISANT DES DERIVES DE QUINAZOLINE D'ALKYNE SUBSTITUE**
[72] BUCK, ELIZABETH, US
[72] O'CONNOR, MATTHEW, US
[72] ROMASHKO, DARLENE, US
[72] LIN, TAI-AN, US
[72] FLOHR, ALEXANDER, CH
[72] ARISTA, LUCA, CH
[72] WRONA, IWONA, US
[72] LUCAS, MATTHEW, US
[72] ROBERTS, CHRIS, US
[72] OTTAVIANI, GIORGIO, CH
[72] SMITH, SHERRI, US
[72] WATERS, NIGEL, US
[71] BLACK DIAMOND THERAPEUTICS, INC., US
[85] 2023-04-12
[86] 2021-11-02 (PCT/US2021/057724)
[87] (WO2022/094464)
[30] US (63/108,645) 2020-11-02
[30] US (63/166,045) 2021-03-25
[30] US (63/190,067) 2021-05-18
[30] US (63/218,717) 2021-07-06
[30] US (63/237,782) 2021-08-27
[30] US (63/244,540) 2021-09-15

[21] **3,195,474**
[13] A1

[25] EN
[54] **A CATHETER AND METHOD FOR DETECTING DYSSYNERGY RESULTING FROM DYSSYNCHRONY**
[54] **CATHETER ET PROCEDE DE DETECTION D'ASYNERGIE PROVOQUEE PAR UNE DYSSYNCHRONIE**
[72] ODLAND, HANS HENRIK, NO
[71] PACERTOOL AS, NO
[85] 2023-04-12
[86] 2021-10-13 (PCT/EP2021/078365)
[87] (WO2022/079125)
[30] GB (2016234.3) 2020-10-13

[21] **3,195,475**
[13] A1

[51] **Int.Cl. F42B 5/285 (2006.01) F42B 5/36 (2006.01)**
[25] EN
[54] **CARTRIDGE CASE FOR CENTRE-FIRE AMMUNITION, AND CENTRE-FIRE AMMUNITION**
[54] **DOUILLE DE CARTOUCHE POUR MUNITION A PERCUSSION CENTRALE, ET MUNITION A PERCUSSION CENTRALE**
[72] BIEDERMANN, PETER, CH
[72] SPATZ, PETER, CH
[71] RUAG AMMOTEC AG, CH
[85] 2023-04-12
[86] 2021-07-01 (PCT/EP2021/068248)
[87] (WO2022/078639)
[30] DE (10 2020 127 053.4) 2020-10-14

[21] **3,195,476**
[13] A1

[51] **Int.Cl. G01R 15/06 (2006.01) G01R 15/16 (2006.01)**
[25] EN
[54] **MEASURING DEVICE ASSEMBLY**
[54] **ENSEMBLE DISPOSITIF DE MESURE**
[72] JUSCHICZ, NORBERT, AT
[72] BACHER, WILLIBALD, AT
[71] GREENWOOD-POWER GMBH, AT
[85] 2023-04-12
[86] 2021-11-08 (PCT/AT2021/060415)
[87] (WO2022/094646)
[30] AT (A50961/2020) 2020-11-09

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[21] **3,195,477**
[13] A1

[51] **Int.Cl. G08G 1/054 (2006.01)**
[25] EN
[54] **MOBILE REAL TIME 360-DEGREE TRAFFIC DATA AND VIDEO RECORDING AND TRACKING SYSTEM AND METHOD BASED ON ARTIFICIAL INTELLIGENCE (AI)**
[54] **SYSTEME MOBILE DE SUIVI ET D'ENREGISTREMENT DE VIDEO ET DE DONNEES DE TRAFIC A 360 DEGRES EN TEMPS REEL ET PROCEDE BASE SUR L'INTELLIGENCE ARTIFICIELLE (IA)**
[72] PASCHALL, DARRYL KENNETH, US
[71] PASCHALL, DARRYL KENNETH, US
[85] 2023-04-12
[86] 2021-10-19 (PCT/US2021/055509)
[87] (WO2022/086895)
[30] US (63/093,816) 2020-10-20

[21] **3,195,478**
[13] A1

[25] EN
[54] **COMPOSITION AND METHOD FOR TREATING CANCER USING A VACCINE AS A FIRST THERAPEUTIC ACTIVE INGREDIENT IN COMBINATION WITH A SECOND ACTIVE INGREDIENT**
[54] **COMPOSITION ET METHODE DE TRAITEMENT DU CANCER A L'AIDE D'UN VACCIN EN TANT QUE PREMIER PRINCIPE ACTIF THERAPEUTIQUE EN COMBINAISON AVEC UN SECOND INGREDIENT ACTIF**
[72] IOANNIDES, TIM, US
[72] BADIAYAS, EVANGELOS V., US
[71] HPVVAX, LLC., US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054622)
[87] (WO2022/081604)
[30] US (17/068,087) 2020-10-12

[21] **3,195,479**
[13] A1

[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4433 (2006.01) A61K 31/4545 (2006.01) A61P 35/02 (2006.01) C07D 401/14 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF MULTI-SUBSTITUTED BENZENE RING COMPOUND MALEATE, AND PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **FORME CRISTALLINE D'UN COMPOSE MALEATE A CYCLE BENZENIQUE MULTI-SUBSTITUE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WANG, XUFAN, CN
[72] WENG, QIUPING, CN
[72] WANG, WENGUI, CN
[72] LI, XIN, CN
[72] HU, YONGHAN, CN
[71] EVOPOINT BIOSCIENCES CO., LTD., CN
[85] 2023-04-12
[86] 2021-10-12 (PCT/CN2021/123172)
[87] (WO2022/078307)
[30] CN (202011088764.2) 2020-10-13

[21] **3,195,480**
[13] A1

[51] **Int.Cl. A61F 2/90 (2013.01)**
[25] EN
[54] **STENT**
[54] **ENDOPROTHESE**
[72] SHOBAYASHI, YASUHIRO, JP
[72] MIKI, KOHEI, JP
[71] T.G. MEDICAL INC., JP
[85] 2023-04-12
[86] 2021-09-06 (PCT/JP2021/032691)
[87] (WO2022/085313)
[30] JP (2020-176275) 2020-10-20

[21] **3,195,481**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6816 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6853 (2018.01) C12Q 1/6876 (2018.01)**
[25] EN
[54] **MASS SPECTROMETRY-BASED METHODS AND KITS FOR NUCLEIC ACID DETECTION AND DISEASE DIAGNOSTIC**
[54] **PROCEDES ET KITS BASES SUR LA SPECTROMETRIE DE MASSE POUR LA DETECTION D'ACIDES NUCLEIQUES ET LE DIAGNOSTIC DE MALADIES**
[72] MARSHALL, JOHN G., CA
[72] MIAO, MING, CA
[71] YYZ PHARMATECH INC., CA
[85] 2023-04-12
[86] 2021-10-26 (PCT/CA2021/051510)
[87] (WO2022/087730)
[30] US (63/105,554) 2020-10-26

[21] **3,195,482**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01)**
[25] EN
[54] **DEVICE FOR EXTRACTION AND PURIFICATION OF NUCLEIC ACIDS**
[54] **DISPOSITIF POUR L'EXTRACTION ET LA PURIFICATION D'ACIDES NUCLEIQUES**
[72] BERNDT BRICENO, DENIS GUSTAVO, CL
[72] MALIG FUENTES, RODRIGO FERNANDO, CL
[72] NIKLITSCHK OYARZUN, MAURICIO ALEJANDRO, CL
[71] TAAG GENETICS CORP, US
[85] 2023-04-12
[86] 2020-11-17 (PCT/CL2020/050157)
[87] (WO2022/077128)
[30] CL (2629-2020) 2020-10-12

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[21] **3,195,483**
[13] A1

[51] **Int.Cl. A61P 21/02 (2006.01) A61P 25/14 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING CERVICAL DYSTONIA**
[54] **METHODES DE TRAITEMENT DE LA DYSTONIE CERVICALE**
[72] RUBIO, ROMAN, US
[72] NGUYEN-CLEARY, THAI, US
[72] OH, CHAD, US
[71] REVANCE THERAPEUTICS, INC., US
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/054818)
[87] (WO2022/081736)
[30] US (63/091,293) 2020-10-13

[21] **3,195,484**
[13] A1

[51] **Int.Cl. C07C 215/50 (2006.01)**
[25] EN
[54] **METHOD OF PREVENTING KIDNEY INJURY DISRUPTION OF INTESTINAL LYMPHATICS**
[54] **PROCEDE DE PREVENTION D'INTERRUPTION DES LESIONS RENALES DU SYSTEME LYMPHATIQUE INTESTINAL**
[72] KON, VALENTINA, US
[72] ABUMRAD, NAJI, US
[72] DAVIES, SEAN, US
[72] YANG, HAICHUN, US
[71] VANDERBILT UNIVERSITY, US
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/054872)
[87] (WO2022/081777)
[30] US (63/091,052) 2020-10-13

[21] **3,195,485**
[13] A1

[51] **Int.Cl. H01Q 1/28 (2006.01) H01Q 21/26 (2006.01)**
[25] EN
[54] **ANTENNA APPARATUS AND DEPLOYMENT METHOD EMPLOYING COLLAPSIBLE MEMORY METAL**
[54] **APPAREIL D'ANTENNE ET PROCEDE DE DEPLOIEMENT FAISANT INTERVENIR UN METAL A MEMOIRE DE FORME PLIABLE**
[72] GREENIDGE, DAVID D., US
[72] WITTEWER, DAVID C., US
[72] KRETSCH, MICHAEL T., US
[72] HOUSE, KEVIN D., US
[72] VOSSLER, MARK D., US
[71] VIASAT INC., US
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/054938)
[87] (WO2022/081817)
[30] US (63/091,922) 2020-10-14

[21] **3,195,486**
[13] A1

[51] **Int.Cl. H01Q 1/28 (2006.01) H01Q 21/26 (2006.01)**
[25] EN
[54] **DEPLOYABLE ANTENNA APPARATUS WITH INFLATE TO LATCH MECHANISM**
[54] **APPAREIL D'ANTENNE DEPLOYABLE AVEC MECANISME DE VERROU PAR GONFLAGE**
[72] WITTEWER, DAVID C., US
[72] GREENIDGE, DAVID D., US
[72] KRETSCH, MICHAEL T., US
[72] HOUSE, KEVIN D., US
[72] VOSSLER, MARK D., US
[71] VIASAT INC., US
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/054985)
[87] (WO2022/081844)
[30] US (63/091,909) 2020-10-14

[21] **3,195,496**
[13] A1

[51] **Int.Cl. E21B 23/01 (2006.01) E21B 29/02 (2006.01)**
[25] EN
[54] **WELL TOOL DEVICE FOR TRANSPORTING A HEAT GENERATING MIXTURE INTO A WELL PIPE**
[54] **DISPOSITIF D'OUTIL DE Puits POUR LE TRANSPORT D'UN MELANGE DE GENERATION DE CHALEUR DANS UNE CANALISATION DE Puits**
[72] HIORTH, ESPEN, NO
[71] INTERWELL NORWAY AS, NO
[85] 2023-04-13
[86] 2021-10-14 (PCT/EP2021/078392)
[87] (WO2022/084129)
[30] NO (20201128) 2020-10-20

[21] **3,195,499**
[13] A1

[51] **Int.Cl. E21B 23/01 (2006.01) E21B 27/02 (2006.01)**
[25] EN
[54] **WELL TOOL DEVICE FOR TRANSPORTING A HEAT GENERATING MIXTURE INTO A WELL PIPE**
[54] **DISPOSITIF D'OUTIL DE Puits POUR TRANSPORTER UN MELANGE GENERANT DE LA CHALEUR DANS UNE CONDUITE DE Puits**
[72] HIORTH, ESPEN, NO
[71] INTERWELL NORWAY AS, NO
[85] 2023-04-13
[86] 2021-10-14 (PCT/EP2021/078391)
[87] (WO2022/084128)
[30] NO (20201129) 2020-10-20

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[21] **3,195,509**
[13] A1

[51] **Int.Cl. A61K 31/4415 (2006.01) A61K 31/455 (2006.01) A61P 21/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS CONTAINING NICOTINAMIDE AND VITAMIN B6 AND METHODS OF USING SUCH COMPOSITIONS FOR REHABILITATION**

[54] **COMPOSITIONS CONTENANT DU NICOTINAMIDE ET DE LA VITAMINE B6 ET METHODES D'UTILISATION DE TELLES COMPOSITIONS POUR LA REEDUCATION**

[72] STUELSATZ, PASCAL, CH
[72] FEIGE, JEROME, CH
[72] MICHAUD, JORIS, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH

[85] 2023-04-13
[86] 2021-10-29 (PCT/EP2021/080107)
[87] (WO2022/090456)
[30] EP (20204863.3) 2020-10-30

[21] **3,195,512**
[13] A1

[51] **Int.Cl. A61K 31/138 (2006.01) A61K 31/196 (2006.01) A61K 31/28 (2006.01) A61K 31/282 (2006.01) A61K 31/337 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF THYROID EYE DISEASE**

[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT D'UNE MALADIE OCULAIRE THYROIDIENNE**

[72] BEDIAN, VAHE, US
[72] HARWIN, PETER, US
[72] KISELAK, TOMAS, US
[72] SHE, ANGELA, US
[72] VIOLIN, JONATHAN, US
[72] ZHAO, YANG, US
[71] VIRIDIAN THERAPEUTICS, INC., US

[85] 2023-04-13
[86] 2021-10-14 (PCT/US2021/054914)
[87] (WO2022/081804)
[30] US (63/091,839) 2020-10-14
[30] US (63/201,978) 2021-05-21
[30] US (63/260,130) 2021-08-10
[30] US (63/261,742) 2021-09-28

[21] **3,195,514**
[13] A1

[51] **Int.Cl. B28B 11/24 (2006.01)**

[25] EN

[54] **MICROWAVE ENHANCED CONCRETE PULTRUSION**

[54] **PULTRUSION DE BETON AMELIOREE PAR MICRO-ONDES**

[72] PAPANIA-DAVIS, ANTONIO RAYMOND, US

[72] TREAT, NEIL DAVID, US

[71] X DEVELOPMENT LLC, US

[85] 2023-04-13
[86] 2021-09-17 (PCT/US2021/050860)
[87] (WO2022/081294)
[30] US (17/069,212) 2020-10-13

[21] **3,195,527**
[13] A1

[51] **Int.Cl. C22C 18/00 (2006.01) C22C 18/04 (2006.01) C22C 21/00 (2006.01) C22C 38/00 (2006.01) C22C 38/04 (2006.01) C23C 2/06 (2006.01) C23C 2/26 (2006.01) C23C 2/40 (2006.01)**

[25] EN

[54] **COATED STEEL PRODUCT**

[54] **MATERIAU EN ACIER PLAQUE**

[72] SAITO, MAMORU, JP
[72] GOTO, YASUTO, JP
[71] NIPPON STEEL CORPORATION, JP

[85] 2023-04-13
[86] 2021-09-29 (PCT/JP2021/036005)
[87] (WO2022/085386)
[30] JP (2020-176669) 2020-10-21

[21] **3,195,528**
[13] A1

[51] **Int.Cl. G06V 20/68 (2022.01) G06V 10/20 (2022.01) G06V 10/44 (2022.01) G06V 10/82 (2022.01) G06V 20/52 (2022.01)**

[25] EN

[54] **DETERMINING CEREAL GRAIN CROP YIELD BASED ON CEREAL GRAIN TRAIT VALUE(S)**

[54] **DETERMINATION DU RENDEMENT DE RECOLTE DE CEREALE SUR LA BASE D'UNE OU DES VALEURS DE CARACTERISTIQUE DE CEREALE**

[72] YUAN, ZHIQIANG, US
[72] MONYAK, THEODORE, US
[71] MINERAL EARTH SCIENCES LLC, US

[85] 2023-04-13
[86] 2021-10-12 (PCT/US2021/054590)
[87] (WO2022/081581)
[30] US (17/072,941) 2020-10-16

[21] **3,195,531**
[13] A1

[51] **Int.Cl. B01J 4/00 (2006.01) B32B 7/035 (2019.01) B01L 1/02 (2006.01) B01L 3/00 (2006.01) B65D 49/02 (2006.01) F16K 5/10 (2006.01)**

[25] EN

[54] **MICROBIOME-DERIVED GASEOUS SAMPLE COLLECTION SYSTEM AND METHODS**

[54] **SYSTEME ET METHODES DE COLLECTE D'ECHANTILLONS GAZEUX DERIVES DU MICROBIOME**

[72] PANDIT, ANIRUDDH, US
[72] PIMENTEL, MARK, US
[72] GUPTA, KAPIL, US
[72] MITCHO, MATT, US
[72] REZAIE, ALI, US
[71] CEDARS-SINAI MEDICAL CENTER, US

[71] GEMELLI BIOTECH CORP., US

[85] 2023-04-13
[86] 2021-10-15 (PCT/US2021/055163)
[87] (WO2022/081961)
[30] US (63/093,088) 2020-10-16

[21] **3,195,535**
[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/437 (2006.01) A61P 25/28 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 498/04 (2006.01) C07D 513/04 (2006.01)**

[25] EN

[54] **NOVEL COMPOUNDS**

[54] **NOUVEAUX COMPOSES**

[72] NAMPALLY, SREENIVASACHARY, CH
[72] GABELLIERI, EMANUELE, CH
[72] DEHLINGER, EP. DREYFUS VERONIQUE, CH

[71] AC IMMUNE SA, CH

[85] 2023-04-13
[86] 2021-10-11 (PCT/EP2021/078079)
[87] (WO2022/078971)
[30] US (63/092,105) 2020-10-15

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[21] **3,195,536**
[13] A1

[51] **Int.Cl. G10L 21/0208 (2013.01)**
[25] FR
[54] **METHOD AND DEVICE FOR VARIABLE PITCH ECHO CANCELLATION**
[54] **PROCEDE ET DISPOSITIF POUR UNE ANNULATION D'ECHO A PAS VARIABLE**
[72] GAULTIER, CLEMENT, FR
[72] GUERIN, ALEXANDRE, FR
[72] EMERIT, MARC, FR
[72] PALLONE, GREGORY, FR
[71] ORANGE, FR
[85] 2023-04-13
[86] 2021-09-27 (PCT/FR2021/051659)
[87] (WO2022/079365)
[30] FR (FR2010570) 2020-10-15

[21] **3,195,539**
[13] A1

[51] **Int.Cl. B60G 3/18 (2006.01)**
[25] EN
[54] **SUSPENSION SYSTEM**
[54] **SYSTEME DE SUSPENSION**
[72] BERARDI, NESTOR ALEXANDER, US
[71] XTRAVEL SUSPENSION, LLC, US
[85] 2023-04-13
[86] 2021-10-12 (PCT/US2021/054637)
[87] (WO2022/081613)
[30] US (63/198,361) 2020-10-13
[30] US (17/144,654) 2021-01-08

[21] **3,195,544**
[13] A1

[51] **Int.Cl. C07K 14/34 (2006.01)**
[25] EN
[54] **BACTERIA BASED PROTEIN DELIVERY**
[54] **ADMINISTRATION DE PROTEINES A BASE DE BACTERIES**
[72] AMSTUTZ, MARLISE, CH
[72] ITTIG, SIMON, CH
[72] KASPER, CHRISTOPH, CH
[72] DICK, MATHIAS S., CH
[72] SAUPE, FALK, CH
[71] T3 PHARMACEUTICALS AG, CH
[85] 2023-04-13
[86] 2021-10-26 (PCT/EP2021/079654)
[87] (WO2022/090211)
[30] EP (20204007.7) 2020-10-27

[21] **3,195,546**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/022 (2006.01) A61B 5/024 (2006.01)**
[25] EN
[54] **WEARABLE CONTINUOUS EMERGENCY MEDICAL MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE MEDICALE D'URGENCE CONTINUE POUVANT ETRE PORTE**
[72] HITE, MICHAEL, US
[72] HITE, DESISLAVA, US
[71] AYUDA MEDICAL, LLC, US
[85] 2023-04-13
[86] 2021-10-26 (PCT/US2021/056701)
[87] (WO2022/108712)
[30] US (63/106,804) 2020-10-28
[30] US (63/113,078) 2020-11-12

[21] **3,195,549**
[13] A1

[51] **Int.Cl. F27B 13/14 (2006.01)**
[25] EN
[54] **FURNACE AND METHOD FOR OPERATING A FURNACE**
[54] **FOUR ET PROCEDE POUR FAIRE FONCTIONNER UN FOUR**
[72] HEINKE, FRANK, DE
[72] MAIWALD, DETLEF, DE
[72] SEIFERT, HANS-JOERG, DE
[71] INNOVATHERM PROF. DR. LEISENBERG GMBH + CO. KG, DE
[85] 2023-04-13
[86] 2021-07-14 (PCT/EP2021/069571)
[87] (WO2022/089796)
[30] DE (10 2020 128 370.9) 2020-10-28

[21] **3,195,553**
[13] A1

[51] **Int.Cl. A61K 35/76 (2015.01) C12N 5/10 (2006.01) C12N 7/00 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **IMPROVED ADENO-ASSOCIATED VIRUS (AAV) VECTOR AND USES THEREFOR**
[54] **VECTEUR DE VIRUS ADENO-ASSOCIE(AAV) AMELIORE ET SES UTILISATIONS**
[72] WANG, QIANG, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2023-04-13
[86] 2021-10-18 (PCT/US2021/055436)
[87] (WO2022/082109)
[30] US (63/093,275) 2020-10-18

[21] **3,195,555**
[13] A1

[51] **Int.Cl. A47G 9/10 (2006.01)**
[25] EN
[54] **PRONE POSITION SLEEPING PILLOW**
[54] **OREILLER DE COUCHAGE EN DECUBITUS VENTRAL**
[72] SIRE, TREVER, US
[71] SIRE, TREVER, US
[85] 2023-04-13
[86] 2021-10-12 (PCT/US2021/054473)
[87] (WO2022/081505)
[30] US (63/091,027) 2020-10-13

[21] **3,195,557**
[13] A1

[51] **Int.Cl. C10G 45/06 (2006.01) B01J 23/24 (2006.01) B01J 35/10 (2006.01)**
[25] FR
[54] **METHOD FOR HYDRODESULFURISATION OF A PETROLEUM FRACTION USING A CATALYST CONTAINING A GRAPHITIC MATERIAL CHARACTERISED BY THE H/C RATIO THEREOF**
[54] **PROCEDE D'HYDRODESULFURATION D'UNE COUPE ESSENCE METTANT EN OEUVRE UN CATALYSEUR CONTENANT UN MATERIAU GRAPHITIQUE CARACTERISE PAR SON RAPPORT H/C**
[72] DEVERS, ELODIE, FR
[72] GIRARD, ETIENNE, FR
[72] LEFLAIVE, PHILIBERT, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2023-04-13
[86] 2021-11-18 (PCT/EP2021/082170)
[87] (WO2022/112093)
[30] FR (FR2012322) 2020-11-27

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[21] **3,195,563**
[13] A1

[51] **Int.Cl. A61K 31/56 (2006.01) A61K 47/54 (2017.01) A61K 38/17 (2006.01) A61K 47/10 (2017.01) A61P 31/14 (2006.01) C07K 14/08 (2006.01)**

[25] EN

[54] **LIPOPEPTIDE FUSION INHIBITORS AS SARS-COV-2 ANTIVIRALS**

[54] **INHIBITEURS DE FUSION LIPOPEPTIDIQUE EN TANT QU'ANTIVIRAUX CONTRE LE SARS-COV 2**

[72] POROTTO, MATTEO, US
[72] MOSCONA, ANNE, US
[72] DE SWART, RIK, NL
[72] DE VRIES, RORY, NL
[72] HORVAT, BRANKA, FR
[72] MATHIEU, CYRILLE, FR

[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US

[71] ERASMUS UNIVERSITY MEDICAL CENTER, NL

[71] INSERM, FR

[85] 2023-04-13
[86] 2021-10-13 (PCT/US2021/054789)
[87] (WO2022/081711)
[30] US (63/091,915) 2020-10-14
[30] US (63/107,429) 2020-10-29
[30] US (63/139,306) 2021-01-19
[30] US (63/145,453) 2021-02-03
[30] US (63/139,302) 2021-01-19
[30] US (63/144,606) 2021-02-02

[21] **3,195,569**
[13] A1

[51] **Int.Cl. B65B 35/50 (2006.01) B65B 59/00 (2006.01) B65D 21/02 (2006.01) B65D 77/04 (2006.01) G05B 19/402 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PACKAGING PRODUCTS**

[54] **SYSTEMES ET PROCEDES D'EMBALLAGE DE PRODUITS**

[72] KIESSNER, HANKO, US
[72] ALPINE, JOHN PAUL, US
[71] PACKSIZE LLC, US

[85] 2023-04-13
[86] 2021-10-13 (PCT/US2021/054715)
[87] (WO2022/081662)
[30] US (63/092,241) 2020-10-15
[30] US (17/499,389) 2021-10-12

[21] **3,195,570**
[13] A1

[51] **Int.Cl. B05C 17/01 (2006.01)**

[25] EN

[54] **A DISPENSER AND A CONTROL METHOD OF THE DISPENSER**

[54] **DISTRIBUTEUR ET PROCEDE DE COMMANDE DU DISTRIBUTEUR**

[72] STOLT, ROCCO, DE
[72] WIEDEMANN, MICHAEL, DE
[71] HILTI AKTIENGESELLSCHAFT, LI

[85] 2023-04-13
[86] 2021-11-16 (PCT/EP2021/081801)
[87] (WO2022/122313)
[30] EP (20213002.7) 2020-12-10

[21] **3,195,572**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/28 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING A COMBINATION OF IMMUNE CHECKPOINT INHIBITOR AND ANTIBODY-AMATOXIN CONJUGATE FOR USE IN CANCER THERAPY**

[54] **COMPOSITION COMPRENANT UNE COMBINAISON D'UN INHIBITEUR DE POINT DE CONTROLE IMMUNITAIRE ET D'UN CONJUGUE ANTICORPS-AMATOXINE POUR UNE UTILISATION DANS LE TRAITEMENT DU CANCER**

[72] KULKE, MICHAEL, DE
[72] HECHLER, TORSTEN, DE
[72] PAHL, ANDREAS, DE
[72] MULLER, CHRISTOPH, DE
[72] WERNER-SIMON, SUSANNE, DE
[71] HEIDELBERG PHARMA RESEARCH GMBH, DE

[85] 2023-04-13
[86] 2021-11-04 (PCT/EP2021/080688)
[87] (WO2022/096604)
[30] EP (20205794.9) 2020-11-04

[21] **3,195,574**
[13] A1

[51] **Int.Cl. E04F 13/08 (2006.01) E04F 13/16 (2006.01) E04F 13/18 (2006.01) E04F 15/02 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **DECORATIVE PANEL COMPRISING GROUT IMITATION**

[54] **PANNEAU DECORATIF COMPRENANT UNE IMITATION DE COULIS**

[72] DE RICK, JAN, BE
[72] SCHACHT, BENNY, BE
[72] ROLLIER, BRYAN, BE
[72] VANGHELUWE, LIEVEN, BE
[71] FLOORING INDUSTRIES LIMITED, SARL, LU

[85] 2023-04-13
[86] 2021-11-04 (PCT/IB2021/060195)
[87] (WO2022/097052)
[30] US (63/110,601) 2020-11-06
[30] US (63/183,843) 2021-05-04
[30] US (63/229,292) 2021-08-04
[30] US (63/240,031) 2021-09-02

[21] **3,195,576**
[13] A1

[51] **Int.Cl. A63B 69/16 (2006.01) B62J 45/40 (2020.01) B60K 28/10 (2006.01) B62K 11/00 (2013.01)**

[25] EN

[54] **WHEELING MOTORCYCLE CONTROL SYSTEM BY CONTROLLING THE ANGLE VARIATION OF THE MOTORCYCLE'S AXIS OF GRAVITY WHILE MOVING FORWARD, RELATIVE TO THE HORIZON**

[54] **SYSTEME DE COMMANDE D'UNE MOTO EN ROUE ARRIERE PAR COMMANDE DE LA VARIATION D'ANGLE DE L'AXE DE GRAVITE DE LA MOTO TOUT EN SE DEPLACANT VERS L'AVANT, PAR RAPPORT A L'HORIZON**

[72] SIMIN MARAM, AMIR, IR
[71] SIMIN MARAM, AMIR, IR

[85] 2023-04-13
[86] 2020-10-18 (PCT/IB2020/059789)
[87] (WO2022/079481)

Demandes PCT entrant en phase nationale

[21] **3,195,578**
[13] A1

[51] **Int.Cl. G10L 13/02 (2013.01) G10L 13/08 (2013.01)**
[25] EN
[54] **AUDIO GENERATOR AND METHODS FOR GENERATING AN AUDIO SIGNAL AND TRAINING AN AUDIO GENERATOR**
[54] **GENERATEUR AUDIO ET PROCEDES DE GENERATION D'UN SIGNAL AUDIO ET D'ENTRAINEMENT D'UN GENERATEUR AUDIO**
[72] AHMED, AHMED MUSTAFA MAHMOUD, DE
[72] PIA, NICOLA, DE
[72] FUCHS, GUILLAUME, DE
[72] MULTRUS, MARKUS, DE
[72] KORSE, SRIKANTH, DE
[72] GUPTA, KISHAN, DE
[72] BUTHE, JAN, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2023-04-13
[86] 2021-10-13 (PCT/EP2021/078372)
[87] (WO2022/079130)
[30] EP (20202058.2) 2020-10-15
[30] EP (PCT/EP2021/059805) 2021-04-15

[21] **3,195,584**
[13] A1

[51] **Int.Cl. C09D 123/08 (2006.01)**
[25] EN
[54] **GREENHOUSE SCREEN WITH ANTIFOGGING EFFECT**
[54] **ECRAN POUR SERRE A EFFET ANTIBUEE**
[72] ASPLUND, DANIEL, SE
[72] ALMSTROM, STEFAN, SE
[71] AB LUDVIG SVENSSON, SE
[85] 2023-04-13
[86] 2021-10-15 (PCT/EP2021/078593)
[87] (WO2022/079229)
[30] SE (2051206-7) 2020-10-16

[21] **3,195,585**
[13] A1

[51] **Int.Cl. B05C 17/01 (2006.01)**
[25] EN
[54] **A DISPENSER AND A CONTROL METHOD OF THE DISPENSER**
[54] **DISTRIBUTEUR ET PROCEDE DE COMMANDE DU DISTRIBUTEUR**
[72] STOLT, ROCCO, DE
[72] WIEDEMANN, MICHAEL, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2023-04-13
[86] 2021-11-16 (PCT/EP2021/081810)
[87] (WO2022/122314)
[30] EP (20212980.5) 2020-12-10

[21] **3,195,586**
[13] A1

[51] **Int.Cl. A45D 27/29 (2006.01) A47K 1/09 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR MOUNTING AN ARTICLE TO A SURFACE**
[54] **DISPOSITIFS ET PROCEDES POUR MONTER UN ARTICLE SUR UNE SURFACE**
[72] DESMARAIS, CHARLES, US
[72] MARKINA, MARIA, US
[72] HIBMACRONAN, CHRISTOPHER NICHOLAS, US
[72] MORENSTEIN, JOSHUA, US
[72] HYUN, JEAN SOO, US
[71] ATHENA CLUB HOLDINGS, INC., US
[85] 2023-04-13
[86] 2021-11-29 (PCT/US2021/060954)
[87] (WO2022/119761)
[30] US (63/121,440) 2020-12-04

[21] **3,195,587**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **CHARGER, CHARGING DEVICE, ENERGY SUPPLY DEVICE AND CONTROL METHOD OF CHARGER**
[54] **CHARGEUR, DISPOSITIF DE CHARGE, DISPOSITIF D'ALIMENTATION EN ENERGIE ET PROCEDE DE COMMANDE DE CHARGEUR**
[72] LU, CHUNTAO, CN
[72] ZHU, YANQIANG, CN
[72] XIE, XUYAN, CN
[72] LI, XI, CN
[72] YAN, AN, CN
[72] ZHUANG, XIAN, CN
[72] HUO, XIAOHUI, CN
[72] LI, ZHIYUAN, CN
[71] GLOBE (JIANGSU) CO., LTD., CN
[85] 2023-04-13
[86] 2021-10-14 (PCT/CN2021/123703)
[87] (WO2022/078420)
[30] CN (202011107770.8) 2020-10-16
[30] CN (202011553912.3) 2020-12-24
[30] CN (202023156248.7) 2020-12-24
[30] CN (202023156550.2) 2020-12-24
[30] CN (202011582635.9) 2020-12-28
[30] CN (202011553902.X) 2020-12-24
[30] CN (202023156576.7) 2020-12-24
[30] CN (202011550988.0) 2020-12-24
[30] CN (202023156297.0) 2020-12-24
[30] CN (202011551200.8) 2020-12-24
[30] CN (202023159913.8) 2020-12-24
[30] CN (202023159937.3) 2020-12-24
[30] CN (202023156169.6) 2020-12-24
[30] CN (202023160148.1) 2020-12-24

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[21] **3,195,589**
[13] A1

[51] **Int.Cl. A61K 31/517 (2006.01) A61P 17/04 (2006.01) A61P 29/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01)**

[25] EN

[54] **MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X2 AND RELATED PRODUCTS AND THEIR USE**

[54] **MODULATEURS DU RECEPTEUR X2 DE LA PROTEINE G LIEE AU MAS ET PRODUITS APPARENTES ET LEUR UTILISATION**

[72] LANIER, MARION, US
[72] BOEHM, MARCUS, US
[72] HUANG, LIMING, US
[72] MARTINBOROUGH, ESTHER, US
[72] SAINZ, MARCOS, US
[72] SELFRIDGE, BRANDON, US
[72] YEAGER, ADAM, US
[71] ESCIENT PHARMACEUTICALS, INC., US
[85] 2023-04-13
[86] 2021-10-20 (PCT/US2021/055774)
[87] (WO2022/087083)
[30] US (63/094,864) 2020-10-21

[21] **3,195,590**
[13] A1

[51] **Int.Cl. A61K 31/138 (2006.01) A61K 31/196 (2006.01) A61K 31/28 (2006.01) A61K 31/282 (2006.01) A61K 31/337 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATMENT OF THYROID EYE DISEASE**

[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT D'UNE MALADIE OCULAIRE THYROIDIENNE**

[72] BEDIAN, VAHE, US
[72] HARWIN, PETER, US
[72] KISELAK, TOMAS, US
[72] SHE, ANGELA, US
[72] VIOLIN, JONATHAN, US
[72] ZHAO, YANG, US
[71] VIRIDIAN THERAPEUTICS, INC., US
[85] 2023-04-13
[86] 2021-10-14 (PCT/US2021/054907)
[87] (WO2022/081799)

[21] **3,195,591**
[13] A1

[51] **Int.Cl. A61K 49/00 (2006.01) C07K 7/08 (2006.01) C07K 14/435 (2006.01)**

[25] EN

[54] **METHODS OF USING SELECTIVE DELIVERY MOLECULES**

[54] **PROCEDES D'UTILISATION DE MOLECULES D'ADMINISTRATION SELECTIVE**

[72] GONZALEZ, JESUS E., US
[72] CHEN, STEVEN, US
[72] HAROOTUNIAN, ALEC, US
[72] POONKA, PHILLIP, US
[71] AVELAS ACQUISITION CORPORATION, US
[85] 2023-04-13
[86] 2021-10-08 (PCT/US2021/054313)
[87] (WO2022/081438)
[30] US (63/091,180) 2020-10-13

[21] **3,195,592**
[13] A1

[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C07D 487/14 (2006.01)**

[25] EN

[54] **TRIHETEROCYCLIC DERIVATIVE, AND PHARMACEUTICAL COMPOSITION AND APPLICATION THEREOF**

[54] **DERIVE TRIHETEROCYCLIQUE, AINSI QUE COMPOSITION PHARMACEUTIQUE ET APPLICATION DE CELUI-CI**

[72] LIU, XIAOHUI, CN
[72] LIU, FENGTAO, CN
[72] GAO, DAXIN, CN
[71] SHANGHAI DE NOVO PHARMATECH CO.,LTD., CN
[85] 2023-04-13
[86] 2021-10-15 (PCT/CN2021/123992)
[87] (WO2022/078480)
[30] CN (202011107416.5) 2020-10-16
[30] CN (202110097827.9) 2021-01-25
[30] CN (202110929213.2) 2021-08-13

[21] **3,195,593**
[13] A1

[51] **Int.Cl. B65D 5/02 (2006.01) B65D 5/468 (2006.01) B65D 77/06 (2006.01)**

[25] EN

[54] **BOX BLANKS, SYSTEMS, AND METHODS**

[54] **EBAUCHES DE BOITES, SYSTEMES ET PROCEDES**

[72] CROSBY, BRYAN JUSTIN ROBERT, US
[72] TAWIL, AMMAR AL, US
[71] GBS HOLDINGS LLC, US
[85] 2023-04-13
[86] 2021-10-26 (PCT/US2021/056569)
[87] (WO2022/093758)
[30] US (63/105,593) 2020-10-26

[21] **3,195,594**
[13] A1

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

[25] EN

[54] **METHOD OF TREATING A TUMOR WITH A COMBINATION OF AN IL-7 PROTEIN AND A NUCLEOTIDE VACCINE**

[54] **PROCEDE DE TRAITEMENT D'UNE TUMEUR AU MOYEN D'UNE COMBINAISON D'UNE PROTEINE IL-7 ET D'UN VACCIN NUCLEOTIDIQUE**

[72] LEE, BYUNG HA, US
[72] CHOI, DONGHOON, KR
[72] GILLANDERS, WILLIAM, US
[72] CHEN, INA, US
[72] GOEDEGEBUURE, SIMON PETER, US
[72] LI, LIJIN, US
[71] NEOIMMUNETECH, INC., US
[71] THE WASHINGTON UNIVERSITY, US
[85] 2023-04-13
[86] 2021-11-05 (PCT/US2021/058273)
[87] (WO2022/099022)

Demandes PCT entrant en phase nationale

[21] **3,195,596**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/0205 (2006.01) A61B 5/11 (2006.01) G06F 3/01 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR REMOTE NEUROBEHAVIORAL TESTING**

[54] **SYSTEME ET METHODE DE TEST NEUROCOMPORTEMENTAL A DISTANCE**

[72] BOELE, HENK-JAN, US
[72] WANG, SAMUEL S.-H., US
[71] THE TRUSTEES OF PRINCETON UNIVERSITY, US

[85] 2023-04-13
[86] 2021-11-10 (PCT/US2021/058698)
[87] (WO2022/103784)
[30] US (63/111,960) 2020-11-10
[30] US (63/218,607) 2021-07-06
[30] US (63/197,002) 2021-06-04

[21] **3,195,597**
[13] A1

[51] **Int.Cl. A61K 31/422 (2006.01) A61K 31/423 (2006.01) A61K 31/428 (2006.01)**

[25] EN

[54] **METALLOENZYME INHIBITORS FOR TREATING CANCERS, ALZHEIMER'S DISEASE, HEMOCHROMATOSIS, AND OTHER DISORDERS**

[54] **INHIBITEURS DE METALLO-ENZYME POUR LE TRAITEMENT DE CANCERS, DE LA MALADIE D'ALZHEIMER, DE L'HEMOCHROMATOSE ET D'AUTRES TROUBLES**

[72] WILLIAMS, JONNIE R., US
[71] MIRALOGX LLC, US

[85] 2023-04-13
[86] 2021-10-16 (PCT/US2021/055327)
[87] (WO2022/082079)
[30] US (63/092,594) 2020-10-16

[21] **3,195,598**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/4155 (2006.01)**

[25] EN

[54] **ORAL FORMULATION COMPRISING 1-(3-CYANO-1-ISOPROPYL-INDOLE-5-YL)PYRAZOLE-4-CARBOXYLIC ACID AND METHOD FOR PREPARING SAME**

[54] **FORMULATION ORALE COMPRENANT DE L'ACIDE 1-(3-CYANO-1-ISOPROPYL-INDOLE-5-YL)PYRAZOLE-4-CARBOXYLIQUE ET SON PROCEDE DE PREPARATION**

[72] YOO, SEOK CHEOL, KR
[72] JANG, JOOMYUNG, KR
[72] KIM, REE SUN, KR
[72] SEO, JIN A, KR
[71] LG CHEM, LTD., KR

[85] 2023-04-13
[86] 2021-11-30 (PCT/KR2021/017843)
[87] (WO2022/119270)
[30] KR (10-2020-0165790) 2020-12-01

[21] **3,195,603**
[13] A1

[51] **Int.Cl. A23P 10/00 (2016.01) A23P 30/00 (2016.01)**

[25] EN

[54] **FOOD PROCESSING APPARATUS AND LIGHT-SOURCE-EQUIPPED REACTION TUBE**

[54] **DISPOSITIF DE TRANSFORMATION D'ALIMENTS ET TUBE A REACTION EQUIPE D'UNE SOURCE DE LUMIERE**

[72] UKAI, KUNIHIRO, JP
[72] HASHIMOTO, YASUHIRO, JP
[72] INO, DAISUKE, JP
[71] PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD., JP

[85] 2023-04-13
[86] 2021-11-04 (PCT/JP2021/040529)
[87] (WO2022/097668)
[30] JP (2020-184201) 2020-11-04

[21] **3,195,605**
[13] A1

[51] **Int.Cl. C02F 1/68 (2006.01)**

[25] EN

[54] **CHLORINATING SKIMMER BASKET**

[54] **PANIER ECUMEUR DE CHLORATION**

[72] MURPHY, DAVID, US
[71] INNOVATIVE WATER CARE, LLC, US

[85] 2023-04-13
[86] 2021-10-15 (PCT/US2021/055228)
[87] (WO2022/082008)
[30] US (63/092,210) 2020-10-15

[21] **3,195,608**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/077 (2010.01) C12N 5/0775 (2010.01)**

[25] EN

[54] **METHOD FOR PRODUCING CARDIAC MUSCLE STEM/PRECURSOR CELLS AND METHOD FOR INHIBITING MYOCARDIAL FIBROSIS**

[54] **PROCEDE DE PRODUCTION DE CELLULES SOUCHES/PRECURSEURS DE MUSCLE CARDIAQUE ET PROCEDE D'INHIBITION DE LA FIBROSE MYOCARDIQUE**

[72] MURANAKA, ASAO, JP
[72] OCHIYA, TAKAHIRO, JP
[72] PRIETO-VILA, MARTA, JP
[71] DA VINCI UNIVERSALE CO., LTD., JP

[85] 2023-04-13
[86] 2021-10-14 (PCT/JP2021/038071)
[87] (WO2022/080455)
[30] JP (2020-173581) 2020-10-14

PCT Applications Entering the National Phase

[21] **3,195,610**
[13] A1

[51] **Int.Cl. C01B 3/16 (2006.01) C01B 3/38 (2006.01) C07C 1/12 (2006.01) C10K 3/02 (2006.01) C10L 3/08 (2006.01) C25B 1/04 (2021.01)**

[25] EN

[54] **SYNGAS STAGE FOR CHEMICAL SYNTHESIS PLANT**

[54] **ETAGE DE GAZ DE SYNTHESE POUR USINE DE SYNTHESE CHIMIQUE**

[72] AASBERG-PETERSEN, KIM, DK

[72] CHRISTENSEN, SANDAHL THOMAS, DK

[72] DE SARKAR, SUDIP, DK

[71] TOPSOE A/S, DK

[85] 2023-04-13

[86] 2021-10-12 (PCT/EP2021/078142)

[87] (WO2022/079002)

[30] EP (20201816.4) 2020-10-14

[21] **3,195,611**
[13] A1

[51] **Int.Cl. A47C 31/00 (2006.01) A47C 31/10 (2006.01)**

[25] EN

[54] **ENCASEMENTS AND METHODS OF MANUFACTURE**

[54] **ENVELOPPES ET PROCEDES DE FABRICATION**

[72] MITTAL, KHUSHBOO, US

[72] FARASHAHI, BEHNOOSH GHAANI, US

[72] BALAJI, SUJHA, US

[72] BARTER, RICHARD, US

[71] SYSCO GUEST SUPPLY, LLC, US

[85] 2023-04-13

[86] 2021-10-15 (PCT/US2021/055217)

[87] (WO2022/081998)

[30] US (17/072,182) 2020-10-16

[21] **3,195,612**
[13] A1

[51] **Int.Cl. C07K 14/55 (2006.01)**

[25] EN

[54] **MODIFIED INTERLEUKIN 2 (IL-2) POLYPEPTIDES, AND METHODS OF MAKING AND USING THE SAME**

[54] **POLYPEPTIDES D'INTERLEUKINE 2 (IL-2) MODIFIES, ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] HUANG, HAINING, US

[72] XU, XIAO, US

[72] FENG, YU, US

[72] MOGNOL, GUILIANA, US

[72] JIN, CAN, US

[72] GUIMET, DIANA, US

[71] CYTIMM THERAPEUTICS, INC., US

[85] 2023-04-13

[86] 2021-10-13 (PCT/US2021/054809)

[87] (WO2022/081728)

[30] US (63/091,679) 2020-10-14

[21] **3,195,613**
[13] A1

[51] **Int.Cl. C07D 209/16 (2006.01)**

[25] EN

[54] **TRYPTAMINE DERIVATIVES AND THEIR THERAPEUTIC USES**

[54] **DERIVES DE TRYPTAMINE ET LEURS UTILISATIONS THERAPEUTIQUES**

[72] CHADEAYNE, ANDREW R., US

[71] CAAMTECH, INC., US

[85] 2023-04-13

[86] 2021-10-12 (PCT/US2021/054534)

[87] (WO2022/081549)

[30] US (63/090,930) 2020-10-13

[30] US (63/135,144) 2021-01-08

[30] US (63/226,954) 2021-07-29

[21] **3,195,614**
[13] A1

[51] **Int.Cl. C09D 5/08 (2006.01) C09D 7/20 (2018.01) C09D 7/40 (2018.01) C09D 7/61 (2018.01)**

[25] EN

[54] **COATING COMPOSITION COMPRISING AN ALKALI SALT OF GRAPHENE OXIDE AND COATING LAYERS PRODUCED FROM SAID COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT COMPRENANT UN SEL ALCALIN D'OXYDE DE GRAPHENE ET COUCHES DE REVETEMENT PRODUITES A PARTIR DE LADITE COMPOSITION DE REVETEMENT**

[72] STELLNBERGER, KARL-HEINZ, AT

[72] KEIL, PATRICK, DE

[72] PIONTEK, SUSANNE, DE

[72] SCHODL, JUERGEN, AT

[72] VELICSANYI, PETER, AT

[72] HAGLER, JOSEF, AT

[72] FAFILEK, GUENTER, AT

[72] PERNKOPF, WALTER, AT

[71] BASF COATINGS GMBH, DE

[85] 2023-04-13

[86] 2021-10-13 (PCT/EP2021/078292)

[87] (WO2022/084119)

[30] EP (20203402.1) 2020-10-22

[21] **3,195,615**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) C07K 1/22 (2006.01) C07K 14/00 (2006.01)**

[25] EN

[54] **LINKER COMPOUNDS COMPRISING AMIDE BONDS**

[54] **COMPOSES LIEURS COMPRENANT DES LIAISONS AMIDE**

[72] BROWN, JONATHAN MILES, US

[72] NEUMAN, KRISTIN K.H., US

[71] MPEG LA, L.L.C., US

[85] 2023-04-13

[86] 2021-10-14 (PCT/US2021/055085)

[87] (WO2022/081911)

[30] US (63/093,062) 2020-10-16

Demandes PCT entrant en phase nationale

[21] **3,195,616**
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**
[25] EN
[54] **TREATMENT SYSTEM FOR PLANT SPECIFIC TREATMENT**
[54] **SYSTEME DE TRAITEMENT POUR LE TRAITEMENT SPECIFIQUE D'UNE PLANTE**
[72] WERNER, NICOLAS, DE
[72] DELATREE, CLEMENS CHRISTIAN, DE
[72] SCHMEER, HUBERT, DE
[72] SCHEEL, CARVIN GUENTHER, DE
[71] BASF AGRO TRADEMARKS GMBH, DE
[85] 2023-04-13
[86] 2021-10-14 (PCT/EP2021/078453)
[87] (WO2022/079172)
[30] EP (20201800.8) 2020-10-14

[21] **3,195,619**
[13] A1

[51] **Int.Cl. A01M 7/00 (2006.01)**
[25] EN
[54] **TREATMENT SYSTEM FOR WEED SPECIFIC TREATMENT**
[54] **SYSTEME DE TRAITEMENT POUR LE TRAITEMENT SPECIFIQUE DE MAUVAISES HERBES**
[72] DELATREE, CLEMENS CHRISTIAN, DE
[72] WERNER, NICOLAS, DE
[72] SCHMEER, HUBERT, DE
[72] SCHEEL, CARVIN GUENTHER, DE
[71] BASF AGRO TRADEMARKS GMBH, DE
[85] 2023-04-13
[86] 2021-10-14 (PCT/EP2021/078463)
[87] (WO2022/079176)
[30] EP (20201808.1) 2020-10-14

[21] **3,195,621**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **RECOMBINANT HVT AND USES THEREOF**
[54] **HERPES VIRUS RECOMBINANT DE LA DINDE (HVT) ET SES UTILISATIONS**
[72] ESAKI, MOTOYUKI, JP
[72] PALYA, VILMOS, HU
[72] TATAR, TIMEA, HU
[72] PENZES, ZOLTAN, HU
[71] CEVA SANTE ANIMALE, FR
[85] 2023-04-13
[86] 2021-10-14 (PCT/EP2021/078432)
[87] (WO2022/079160)
[30] EP (20306212.0) 2020-10-15

[21] **3,195,622**
[13] A1

[51] **Int.Cl. A61K 35/12 (2015.01) C12N 5/071 (2010.01) C12N 5/0793 (2010.01) G01N 33/50 (2006.01)**
[25] EN
[54] **METHODS FOR GENERATING INNER EAR HAIR CELLS**
[54] **PROCEDES DE GENERATION DE CELLULES CILIEES DE L'OREILLE INTERNE**
[72] WONG, YEE MAN ELAINE, AU
[71] EAR SCIENCE INSTITUTE AUSTRALIA, AU
[85] 2023-04-13
[86] 2021-10-14 (PCT/AU2021/051204)
[87] (WO2022/077069)
[30] AU (2020903734) 2020-10-14

[21] **3,195,623**
[13] A1

[51] **Int.Cl. A61K 47/58 (2017.01)**
[25] EN
[54] **STAR POLYMER DRUG CONJUGATES**
[54] **CONJUGUES POLYMERES EN ETOILE-MEDICAMENT**
[72] LYNN, GEOFFREY MARTIN, US
[72] ZHU, YALING, US
[72] WILSON, DAVID ROBERT, US
[72] HOLECHEK, JAKE, US
[72] DUVALL, BRIDGET, US
[72] ISHIZUKA, ANDREW SCOTT, US
[72] REN, QIUYIN, US
[71] VACCITECH NORTH AMERICA, INC., US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2023-04-13
[86] 2021-10-18 (PCT/US2021/055414)
[87] (WO2022/086853)
[30] US (63/093,445) 2020-10-19

[21] **3,195,624**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR THE HATCHING, SEEDING, AND/OR CULTIVATING OF A TARGET PRODUCT**
[54] **SYSTEMES ET PROCEDES POUR L'INCUBATION, L'ENSEMENCEMENT ET/OU LA CULTURE D'UN PRODUIT CIBLE**
[72] WOOLF, SAMUEL, US
[72] FOORMAN, SEAN ARTHUR, US
[72] ODLIN, MATTHEW JORDAN, US
[71] RUNNING TIDE TECHNOLOGIES, INC., US
[85] 2023-04-13
[86] 2021-10-14 (PCT/US2021/054952)
[87] (WO2022/081826)
[30] US (63/091,753) 2020-10-14

PCT Applications Entering the National Phase

[21] **3,195,625**
[13] A1

[51] **Int.Cl. A61K 31/215 (2006.01) A61P 33/14 (2006.01)**
[25] EN
[54] **PERMETRIN FOR USE IN THE TREATMENT OF DEMODEX SPP INFESTATION**
[54] **PERMETHRINE A UTILISER DANS LE TRAITEMENT D'UNE INFESTATION PAR DEMODEX SPP**
[72] TARKOWSKI, WITOLD, PL
[71] TG PHARMA SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, PL
[85] 2023-04-13
[86] 2021-10-15 (PCT/IB2021/059492)
[87] (WO2022/079675)
[30] PL (P.435706) 2020-10-16

[21] **3,195,626**
[13] A1

[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/00 (2006.01) G01N 27/36 (2006.01) G01N 27/416 (2006.01) A61B 5/1495 (2006.01)**
[25] EN
[54] **TESTING APPARATUS, METHOD OF MANUFACTURE AND METHOD OF USE THEREOF**
[54] **APPAREIL DE TEST, SON PROCEDE DE FABRICATION ET METHODE D'UTILISATION ASSOCIEE**
[72] MCINTOSH, KIRSTY, GB
[72] MENNA, FRANCESCO, IT
[71] SOFTCELL MEDICAL LIMITED, GB
[85] 2023-04-13
[86] 2021-10-14 (PCT/GB2021/052659)
[87] (WO2022/079436)
[30] GB (2016324.2) 2020-10-14

[21] **3,195,627**
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IL-2/IL-15R.BETA..GAMMA. AGONIST FOR TREATING SQUAMOUS CELL CARCINOMA**
[54] **AGONISTE IL-2/IL-15R.BETA..GAMMA. POUR TRAITER LE CARCINOME MALPIGHIIEN**
[72] FERRARA, STEFANO, CH
[72] MOEBIUS, ULRICH, DE
[72] BECHARD, DAVID, FR
[72] ADKINS, IRENA, CZ
[72] PODZIMKOVA, NADA, CZ
[71] CYTUNE PHARMA, FR
[85] 2023-04-13
[86] 2021-10-26 (PCT/EP2021/079636)
[87] (WO2022/090203)
[30] EP (20203908.7) 2020-10-26

[21] **3,195,628**
[13] A1

[51] **Int.Cl. G08B 21/04 (2006.01) G01P 15/18 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD TO DETECT A MAN-DOWN SITUATION USING INTRA-AURAL INERTIAL MEASUREMENT UNITS**
[54] **SYSTEME ET PROCEDE DE DETECTION D'UNE SITUATION D'HOMME A TERRE A L'AIDE D'UNITES DE MESURE INERTIELLE INTRA-AURICULAIRES**
[72] GUILBEAULT-SAUVE, ALEX, CA
[72] DE KELPER, BRUNO, CA
[72] VOIX, JEREMIE, CA
[71] EERS GLOBAL TECHNOLOGIES INC., CA
[85] 2023-04-13
[86] 2021-10-13 (PCT/CA2021/051438)
[87] (WO2022/077107)
[30] US (63/091,080) 2020-10-13

[21] **3,195,631**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **MULTI-CONJUGATES COMPRISING A MONO-SUBSTITUTED HOMO-BIVALENT LINKER**
[54] **MULTI-CONJUGUES COMPRENANT UN LIEUR HOMOBIVALENT MONO-SUBSTITUE**
[72] BROWN, JONATHAN MILES, US
[72] NEUMAN, KRISTIN K.H., US
[71] MPEG LA, L.L.C., US
[85] 2023-04-13
[86] 2021-10-14 (PCT/US2021/055061)
[87] (WO2022/081894)
[30] US (63/093,085) 2020-10-16

[21] **3,195,632**
[13] A1

[51] **Int.Cl. E21B 15/00 (2006.01) E21B 19/00 (2006.01) E21B 19/08 (2006.01) E21B 19/22 (2006.01)**
[25] EN
[54] **COIL STRUCTURE**
[54] **STRUCTURE DE BOBINE**
[72] LAYDEN, REGINALD, KY
[71] LYNCHPIN TECHNOLOGIES (CAYMAN) LTD., KY
[85] 2023-04-13
[86] 2021-10-14 (PCT/US2021/071896)
[87] (WO2022/082220)
[30] US (63/091,887) 2020-10-14

Demandes PCT entrant en phase nationale

[21] **3,195,634**
[13] A1

[51] **Int.Cl. G02B 30/27 (2020.01) G02B 30/30 (2020.01) G06V 10/147 (2022.01) G06V 40/19 (2022.01) A61B 3/00 (2006.01) A61B 3/028 (2006.01) A61B 3/11 (2006.01) A61B 3/113 (2006.01) G02B 27/00 (2006.01) G02F 1/1335 (2006.01)**

[25] EN

[54] **VISION CORRECTION DISPLAY DEVICE, EYE-TRACKING SYSTEM AND METHOD TO COMPENSATE FOR VISUAL IMPAIRMENTS**

[54] **DISPOSITIF D'AFFICHAGE DE CORRECTION DE VISION, SYSTEME DE SUIVI D'IL ET PROCEDE DE COMPENSATION DE DEFICIENCES VISUELLES**

[72] GOEDKNEGT, LENNARD, NL
[72] MENDES, RICHARD, SR
[72] SPAANS, ALEXANDER M. J., NL
[71] RABBIT EYES B.V., NL
[85] 2023-04-13
[86] 2021-10-11 (PCT/EP2021/077977)
[87] (WO2022/084076)
[30] NL (2026709) 2020-10-20

[21] **3,195,635**
[13] A1

[51] **Int.Cl. C07C 29/10 (2006.01) C07C 31/20 (2006.01) C07C 41/03 (2006.01) C07C 43/13 (2006.01)**

[25] EN

[54] **SYSTEM AND PROCESS FOR PRODUCING GLYCOLS**

[54] **SYSTEME ET PROCEDE DE PRODUCTION DE GLYCOLS**

[72] JAIN, JAI PRAKASH, IN
[72] SANKAR, UMA, IN
[71] SABIC GLOBAL TECHNOLOGIES B.V., NL
[85] 2023-04-13
[86] 2021-10-14 (PCT/IB2021/059466)
[87] (WO2022/079662)
[30] US (63/092,379) 2020-10-15

[21] **3,195,644**
[13] A1

[51] **Int.Cl. A47K 13/26 (2006.01)**

[25] EN

[54] **A FIXING PIN**

[54] **BROCHE DE FIXATION**

[72] DELANEY, PAUL, GB
[71] ELLSI LIMITED, GB
[85] 2023-04-13
[86] 2021-10-11 (PCT/GB2021/052619)
[87] (WO2022/079419)
[30] GB (2016244.2) 2020-10-13
[30] GB (2103043.2) 2021-03-04

[21] **3,195,645**
[13] A1

[51] **Int.Cl. A47L 5/00 (2006.01) A47L 5/22 (2006.01) A47L 5/24 (2006.01)**

[25] EN

[54] **IMPROVED METHODS FOR CLEANING-IN-PLACE**

[54] **PROCEDES AMELIORES DE NETTOYAGE SUR PLACE**

[72] THORESON, KRISTEN A., US
[72] ERICKSON, PAUL R., US
[72] WILSON, SCOTT B., US
[71] REGENESIS BIOREMEDIATION PRODUCTS, US
[85] 2023-04-13
[86] 2021-10-13 (PCT/US2021/054779)
[87] (WO2022/081705)
[30] US (63/091,265) 2020-10-13
[30] US (17/498,250) 2021-10-11

[21] **3,195,646**
[13] A1

[51] **Int.Cl. G01N 21/65 (2006.01) G01N 35/02 (2006.01)**

[25] EN

[54] **HIGH-THROUGHPUT SCREENING APPARATUS**

[54] **APPAREIL DE CRIBLAGE A HAUT RENDEMENT**

[72] OSTERGAARD, PAUL, AU
[72] WATT, PAUL, AU
[71] AVICENA SYSTEMS LIMITED, AU
[85] 2023-04-13
[86] 2021-10-15 (PCT/AU2021/051209)
[87] (WO2022/077074)
[30] AU (2020903750) 2020-10-15

[21] **3,195,647**
[13] A1

[51] **Int.Cl. H04N 21/854 (2011.01)**

[25] EN

[54] **VIRTUALIZED PRODUCTION SWITCHER AND METHOD FOR MEDIA PRODUCTION**

[54] **COMMUTATEUR DE PRODUCTION VIRTUALISE ET PROCEDE DE PRODUCTION MULTIMEDIA**

[72] FLETCHER, IAN DAVID, CA
[71] GRASS VALLEY CANADA, CA
[85] 2023-04-13
[86] 2021-10-13 (PCT/CA2021/051437)
[87] (WO2022/077106)
[30] US (63/091,092) 2020-10-13
[30] US (17/450,554) 2021-10-11

[21] **3,195,649**
[13] A1

[51] **Int.Cl. H04L 1/00 (2006.01)**

[25] EN

[54] **DATA PROCESSING METHOD AND RELATED DEVICE**

[54] **PROCEDE DE TRAITEMENT DE DONNEES ET DISPOSITIF ASSOCIE**

[72] GENG, RUIQUAN, CN
[72] LI, RUI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-04-13
[86] 2021-08-30 (PCT/CN2021/115282)
[87] (WO2022/078087)
[30] CN (202011095856.3) 2020-10-14

[21] **3,195,654**
[13] A1

[51] **Int.Cl. C08J 3/24 (2006.01) C08K 3/011 (2018.01) C08K 3/30 (2006.01) C10G 49/02 (2006.01)**

[25] EN

[54] **PROCESS FOR THE CONTROL OF SOFTENING POINTS OF PETROLEUM HYDROCARBON MATERIALS**

[54] **PROCEDE DE CONTROLE DE POINTS DE RAMOLLISSEMENT DE MATERIAUX HYDROCARBONES PETROLIERS**

[72] CHEN, WEIXING, CA
[71] ADVEN INDUSTRIES INC., CA
[85] 2023-04-13
[86] 2021-10-15 (PCT/CA2021/000092)
[87] (WO2022/077090)
[30] US (63/092,912) 2020-10-16

PCT Applications Entering the National Phase

[21] **3,195,655**
[13] A1

[51] **Int.Cl. G01N 30/60 (2006.01) B01D 15/22 (2006.01) G01N 30/86 (2006.01)**

[25] EN

[54] **METHOD OF DESIGNING ADSORPTION COLUMNS**

[54] **PROCEDE DE CONCEPTION DE COLONNES D'ADSORPTION**

[72] SANKAR, ASHWIN RAVI, IN

[71] SABIC GLOBAL TECHNOLOGIES B.V., NL

[85] 2023-04-13

[86] 2021-10-15 (PCT/IB2021/059535)

[87] (WO2022/079696)

[30] US (63/093,054) 2020-10-16

[21] **3,195,659**
[13] A1

[51] **Int.Cl. F22B 1/18 (2006.01) E21B 43/24 (2006.01) E21B 43/243 (2006.01) F22B 1/22 (2006.01)**

[25] EN

[54] **STEAM GENERATOR TOOL**

[54] **OUTIL GENERATEUR DE VAPEUR**

[72] KAY, BRIAN, CA

[72] DESMARAIS, ADRIEN, CA

[72] BAIRD, FARRELL, CA

[72] THOMPSON, DANIEL, CA

[72] SOPKO, WESLEY, CA

[72] WIEBE, KEVIN, CA

[72] DARY, BRADLEY, CA

[71] GENERAL ENERGY RECOVERY INC., CA

[85] 2023-04-13

[86] 2021-10-25 (PCT/CA2021/051497)

[87] (WO2022/082321)

[30] US (63/104,825) 2020-10-23

[21] **3,195,664**
[13] A1

[51] **Int.Cl. F41A 21/30 (2006.01)**

[25] EN

[54] **SUPPRESSOR FOR A FIREARM**

[54] **SILENCIEUX POUR ARME A FEU**

[72] SJOGREN, HARRI, FI

[71] SILENT STEEL OY, FI

[85] 2023-04-13

[86] 2021-10-15 (PCT/FI2021/050687)

[87] (WO2022/079358)

[30] FI (20206017) 2020-10-15

[21] **3,195,665**
[13] A1

[51] **Int.Cl. C10B 49/16 (2006.01) C10B 49/18 (2006.01) C10B 53/07 (2006.01) C10G 1/10 (2006.01)**

[25] EN

[54] **APPARATUS FOR THE TREATMENT OF PLASTICS**

[54] **APPAREIL DESTINE AU TRAITEMENT DES MATIERES PLASTIQUES**

[72] FALCO, GIUSEPPE, IT

[71] DELTAGIZERO S.R.L., IT

[85] 2023-04-13

[86] 2021-10-18 (PCT/IB2021/059564)

[87] (WO2022/079698)

[30] IT (102020000024501) 2020-10-16

[21] **3,195,666**
[13] A1

[51] **Int.Cl. E04B 1/38 (2006.01)**

[25] EN

[54] **WALL MOUNTABLE BRACKET ASSEMBLY**

[54] **ENSEMBLE SUPPORT POUVANT ETRE MONTE SUR UNE PAROI**

[72] SUN, CONG, US

[71] VICTAULIC COMPANY, US

[85] 2023-04-14

[86] 2021-11-04 (PCT/US2021/058082)

[87] (WO2022/098888)

[30] US (63/109,930) 2020-11-05

[21] **3,195,700**
[13] A1

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6806 (2018.01) C12Q 1/6874 (2018.01)**

[25] EN

[54] **LINKED-READ SEQUENCING LIBRARY PREPARATION**

[54] **PREPARATION DE BIBLIOTHEQUE DE SEQUENCAGE A LECTURE LIEE**

[72] XIAO, MING, US

[72] UPPULURI, LAHARI, US

[71] DREXEL UNIVERSITY, US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055118)

[87] (WO2022/081940)

[30] US (63/092,973) 2020-10-16

[21] **3,195,709**
[13] A1

[51] **Int.Cl. B01D 53/58 (2006.01) C05G 5/12 (2020.01) B01J 2/16 (2006.01) C05C 3/00 (2006.01) C05C 9/00 (2006.01)**

[25] EN

[54] **PLANT AND PROCESS OF GRANULATING UREA AMMONIA SULPHATE**

[54] **INSTALLATION ET PROCESSUS DE GRANULATION DE SULFATE D'UREE ET D'AMMONIUM**

[72] MONSTREY, KEN GASPARD MARCEL, BE

[72] WANG, WEIZHEN, CN

[71] CASALE LIMITED, CN

[85] 2023-04-14

[86] 2022-01-11 (PCT/EP2022/050459)

[87] (WO2022/152704)

[30] EP (21151312.2) 2021-01-13

[21] **3,195,720**
[13] A1

[51] **Int.Cl. A61J 1/14 (2006.01)**

[25] EN

[54] **DEVICES AND METHODS FOR NEEDLELESS AND NEEDED EXTRACTION OF CONTENTS FROM VIALS**

[54] **DISPOSITIFS ET PROCEDES POUR L'EXTRACTION SANS AIGUILLE ET AVEC AIGUILLE DE CONTENU DANS DES FLACONS**

[72] KLIMEK, ROBBIE, US

[71] KLIM-LOC, LLC, US

[85] 2023-04-14

[86] 2021-05-14 (PCT/US2021/032399)

[87] (WO2022/081211)

[30] US (63/091,986) 2020-10-15

[30] US (17/111,880) 2020-12-04

[30] EP (20216848.0) 2020-12-23

[30] US (17/317,455) 2021-05-11

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[21] **3,195,723**
[13] A1

[51] **Int.Cl. A24B 15/167 (2020.01) A24C 5/01 (2020.01) A24D 1/20 (2020.01) A24F 40/10 (2020.01)**

[25] EN

[54] **LIQUID NICOTINE FORMULATION AND CARTRIDGE FOR AN AEROSOL-GENERATING SYSTEM**

[54] **FORMULATION LIQUIDE DE NICOTINE ET CARTOUCHE POUR UN SYSTEME DE GENERATION D'AEROSOL**

[72] FASCIANI, CHIARA, CH

[72] FRAUENDORFER, FELIX, CH

[71] PHILIP MORRIS PRODUCTS S.A., CH

[85] 2023-04-14

[86] 2021-07-29 (PCT/EP2021/071337)

[87] (WO2022/078645)

[30] EP (20202428.7) 2020-10-16

[21] **3,195,726**
[13] A1

[51] **Int.Cl. C09K 19/04 (2006.01) C09K 19/54 (2006.01) C09K 19/60 (2006.01)**

[25] EN

[54] **PHOTOCHROMIC-DICHROIC ARTICLES**

[54] **ARTICLES PHOTOCROMIQUES-DICHROIQUES**

[72] NGUYEN, HENRY, US

[72] BROWN, CORY S., US

[72] KUMAR, ANIL, US

[72] GRUBB, ALAN M., US

[72] REDDY, RAMAIAHGARI, US

[72] LI, YANNIAN, US

[71] TRANSITIONS OPTICAL, LTD., IE

[85] 2023-04-14

[86] 2020-11-10 (PCT/EP2020/081620)

[87] (WO2022/100816)

[21] **3,195,728**
[13] A1

[51] **Int.Cl. B65H 18/28 (2006.01) B65B 63/02 (2006.01) B65B 63/04 (2006.01) B65H 75/24 (2006.01)**

[25] EN

[54] **METHOD OF WINDING AND PACKAGING WIDE WALLPAPER**

[54] **PROCEDE D'ENROULEMENT ET D'EMBALLAGE DE PAPIER PEINT LARGE**

[72] NICOLAESCU, GHEORGHE, MD

[71] NICOLAESCU, GHEORGHE, MD

[85] 2023-04-14

[86] 2020-12-10 (PCT/MD2020/000005)

[87] (WO2022/086313)

[30] MD (S 2020 0134) 2020-10-23

[21] **3,195,730**
[13] A1

[51] **Int.Cl. G06Q 40/00 (2023.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR TRADING ACROSS MULTIPLE INVESTORS**

[54] **SYSTEME ET PROCEDE DE TRANSACTIONS RECOUVRANT DE MULTIPLES INVESTISSEURS**

[72] STOCKS, IAN, US

[72] BRUNER, CHRISTIAN ADAM, US

[72] KIMMEL, JOSEPH, US

[72] CONLIN, ISEULT, US

[72] TOSTI, JOHN, US

[72] PETERSON, JUSTIN DANIEL, US

[71] TRADEWEB MARKETS LLC, US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055148)

[87] (WO2022/081951)

[30] US (63/092,214) 2020-10-15

[21] **3,195,736**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/03 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MULTICHANNEL INTRACRANIAL PRESSURE DETECTION AND MONITORING AND MULTICHANNEL DEVICE**

[54] **SYSTEME ET METHODE DE DETECTION MULTICANAL DE PRESSION INTRACRANIENNE ET DISPOSITIF DE SURVEILLANCE ET MULTICANAL**

[72] ANDRADE, RODRIGO DE ALBUQUERQUE PACHECO, BR

[72] JUNIOR, DEUSDEDIT LINEU SPAVIERI, BR

[72] OLIVEIRA, SERGIO MASCARENHAS, BR

[72] MIYAZAKI, CAIO KIOSHI, BR

[72] OSHIRO, HELDER EIKI, BR

[71] BRAINCARE DESENVOLVIMENTO E INOVACAO TECNOLOGICA S.A., BR

[85] 2023-04-14

[86] 2021-10-19 (PCT/BR2021/050456)

[87] (WO2022/082289)

[30] BR (BR 10 2020 021338 5) 2020-10-19

[21] **3,195,739**
[13] A1

[51] **Int.Cl. A61L 27/24 (2006.01) A61L 27/38 (2006.01) A61L 27/52 (2006.01)**

[25] EN

[54] **MULTILAYER ENGINEERED HEART MUSCLE**

[54] **MUSCLE CARDIAQUE MULTICOUCHE OBTENU PAR GENIE GENETIQUE**

[72] ZIMMERMANN, WOLFRAM-HUBERTUS, DE

[72] TIBURCY, MALTE, DE

[72] MEYER, TIM, DE

[71] GEORG-AUGUST-UNIVERSITAT GOTTINGEN STIFTUNG OFFENTLICHEN RECHTS, UNIVERSITATSMEDIZIN, DE

[85] 2023-04-14

[86] 2021-10-21 (PCT/EP2021/079164)

[87] (WO2022/084429)

[30] EP (20203316.3) 2020-10-22

PCT Applications Entering the National Phase

[21] **3,195,741**
[13] A1

[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/21 (2006.01) A61K 9/00 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **A THICKENED SILVER DIAMINE FLUORIDE COMPOSITION**

[54] **COMPOSITION EPAISSIE DE FLUORURE DIAMINE D'ARGENT**

[72] MILGROM, PETER M., US

[71] ADVANTAGE SILVER DENTAL ARREST, LLC, US

[85] 2023-04-14

[86] 2021-10-08 (PCT/US2021/054175)

[87] (WO2022/081430)

[30] US (63/091,964) 2020-10-15

[21] **3,195,742**
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01) F28F 9/18 (2006.01)**

[25] EN

[54] **COOLING SYSTEM FOR THE LIQUID IMMERSION COOLING OF ELECTRONIC COMPONENTS**

[54] **SYSTEME DE REFROIDISSEMENT POUR LE REFROIDISSEMENT EN IMMERSION LIQUIDE DE COMPOSANTS ELECTRONIQUES**

[72] GAIBLER, HARALD, DE

[72] GOTTERBARM, ACHIM, DE

[72] HOFMANN, PHILIPP, DE

[72] OBST, VERENA, DE

[72] SCHEUSS, MICHAEL, DE

[71] WIELAND-WERKE AG, DE

[85] 2023-04-14

[86] 2021-10-21 (PCT/EP2021/000128)

[87] (WO2022/106046)

[30] DE (10 2020 007 021.3) 2020-11-17

[21] **3,195,743**
[13] A1

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

[25] EN

[54] **PRIVACY MANAGER FOR CONNECTED TV AND OVER-THE-TOP APPLICATIONS**

[54] **GESTIONNAIRE DE CONFIDENTIALITE POUR TV CONNEXTEE ET APPLICATIONS HORS OFFRE DU FOURNISSEUR D'ACCES A INTERNET**

[72] BAARSMA, NIELS, NL

[72] EINDHOVEN, MARTIJN, NL

[71] LIVERAMP, INC., US

[85] 2023-04-14

[86] 2021-10-13 (PCT/US2021/054680)

[87] (WO2022/081637)

[30] US (63/092,961) 2020-10-16

[21] **3,195,744**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2023.01)**

[25] EN

[54] **CLIENT-SIDE DEVICE BLOOM FILTER MAPPING**

[54] **MAPPAGE DE FILTRE DE BLOOM DE DISPOSITIF COTE CLIENT**

[72] MEYERS, IAN, US

[71] LIVERAMP, INC., US

[85] 2023-04-14

[86] 2021-10-12 (PCT/US2021/054554)

[87] (WO2022/081560)

[30] US (63/092,990) 2020-10-16

[21] **3,195,745**
[13] A1

[51] **Int.Cl. B01F 31/22 (2022.01) H02K 33/16 (2006.01) H02K 41/03 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING A PLANAR DRIVE SYSTEM, AND PLANAR DRIVE SYSTEM**

[54] **PROCEDE DE COMMANDE D'UN SYSTEME D'ENTRAINEMENT PLAN ET SYSTEME D'ENTRAINEMENT PLAN**

[72] ACHTERBERG, JAN, DE

[72] PRUESSMEIER, UWE, DE

[71] BECKHOFF AUTOMATION GMBH, DE

[85] 2023-04-14

[86] 2021-10-13 (PCT/EP2021/078245)

[87] (WO2022/079070)

[30] DE (10 2020 127 012.7) 2020-10-14

[21] **3,195,746**
[13] A1

[51] **Int.Cl. B21B 1/46 (2006.01) C22F 3/00 (2006.01)**

[25] EN

[54] **CASTING PROCESS FOR ALUMINIUM ALLOYS**

[54] **PROCEDE DE COULAGE POUR ALLIAGES D'ALUMINIUM**

[72] GALLERNEAULT, WILLARD MARK TRUMAN, CA

[72] YUAN, ZHIXUE, US

[72] LI, JINGZHU, US

[72] HOWELLS, ANDREW DAVID, CA

[71] HAZELETT CASTECHOLOGY ULC, CA

[85] 2023-04-14

[86] 2021-11-05 (PCT/CA2021/051578)

[87] (WO2022/032400)

[30] US (63/110,568) 2020-11-06

[30] US (63/262,448) 2021-10-13

[21] **3,195,749**
[13] A1

[51] **Int.Cl. G16H 30/40 (2018.01)**

[25] EN

[54] **METHOD OF AND SYSTEM FOR IN VIVO STRAIN MAPPING OF AN AORTIC DISSECTION**

[54] **PROCEDE ET SYSTEME POUR LA CARTOGRAPHIE DE DISSECTANTE IN VIVO D'UNE DISSECTION AORTIQUE**

[72] FORNERIS, ARIANNA, CA

[72] DI MARTINO, ELENA, CA

[72] MOORE, RANDY D., CA

[71] VITAA MEDICAL SOLUTIONS INC., CA

[85] 2023-04-14

[86] 2022-02-03 (PCT/IB2022/050931)

[87] (WO2022/167959)

[30] US (63/145,205) 2021-02-03

[21] **3,195,752**
[13] A1

[51] **Int.Cl. F25B 40/02 (2006.01) F25B 41/31 (2021.01)**

[25] EN

[54] **HEATING AND REFRIGERATION SYSTEM**

[54] **SYSTEME DE CHAUFFAGE ET DE REFRIGERATION**

[72] LANTZ, ZACHARY RICHARD, US

[71] ILLUMINATED EXTRACTORS, LTD., US

[85] 2023-04-14

[86] 2021-10-22 (PCT/US2021/056358)

[87] (WO2022/087491)

[30] US (63/104,650) 2020-10-23

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[21] **3,195,753**
[13] A1

[51] **Int.Cl. A61K 31/496 (2006.01) C12N 5/071 (2010.01) C12N 5/09 (2010.01) A61K 31/416 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **USE OF N-MYRISTOYL TRANSFERASE (NMT) INHIBITORS IN THE TREATMENT OF CANCER, AUTOIMMUNE DISORDERS, AND INFLAMMATORY DISORDERS**

[54] **UTILISATION D'INHIBITEURS DE N-MYRISTOYLE TRANSFERASE (NMT) DANS LE TRAITEMENT DU CANCER, DE TROUBLES AUTO-IMMUNS ET DE TROUBLES INFLAMMATOIRES**

[72] BERTHIAUME, LUC G., CA
[72] BEAUCHAMP, ERWAN, CA
[71] PACYLEX PHARMACEUTICALS INC., CA
[85] 2023-04-14
[86] 2021-10-20 (PCT/CA2021/051475)
[87] (3195753)
[30] US (63/093,970) 2020-10-20

[21] **3,195,755**
[13] A1

[51] **Int.Cl. F28D 7/16 (2006.01)**

[25] EN

[54] **TUBE BUNDLE HEAT EXCHANGER**

[54] **ECHANGEUR DE CHALEUR A FAISCEAU TUBULAIRE**

[72] GAIBLER, HARALD, DE
[72] GOTTERBARM, ACHIM, DE
[72] HOFMANN, PHILIPP, DE
[72] OBST, VERENA, DE
[72] SCHEUSS, MICHAEL, DE
[71] WIELAND-WERKE AG, DE
[85] 2023-04-14
[86] 2021-10-21 (PCT/EP2021/000127)
[87] (WO2022/106045)
[30] DE (10 2020 007 022.1) 2020-11-17

[21] **3,195,756**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) C12N 15/62 (2006.01)**

[25] EN

[54] **ENGINEERED CELLS FOR INCREASED COLLAGEN PRODUCTION**

[54] **CELLULES MODIFIEES DE PRODUCTION ACCRUE DE COLLAGENE**

[72] MASTOVICH, TIM JOHN, US
[72] FITZGERALD, MICHAEL, US
[72] GIFFORD, JESSIE LYN, US
[72] HOROWITZ, ANDREW C., US
[72] POWELL, MEGAN JAYNE, US
[72] RUBERTI, JEFFREY WILLIAM, US
[71] NORTHEASTERN UNIVERSITY, US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055315)
[87] (WO2022/082070)
[30] US (63/092,433) 2020-10-15

[21] **3,195,757**
[13] A1

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

[25] EN

[54] **ACTUATION SHAFT RETENTION MECHANISM FOR SURGICAL STAPLER**

[54] **MECANISME DE RETENUE D'ARBRE D'ACTIONNEMENT D'AGRAFEUSE CHIRURGICALE**

[72] VON STEIN, JONATHAN, US
[72] MCGINLEY, KIMBALL B., US
[72] BRADSHAW, ROBERT, US
[72] BYLUND, ALAN, US
[72] HALVORSEN, CHRISTIAN A., US
[72] NASH, JONATHAN R., US
[71] APPLIED MEDICAL RESOURCES CORPORATON, US
[85] 2023-04-14
[86] 2021-10-29 (PCT/US2021/057278)
[87] (WO2022/094227)
[30] US (63/107,112) 2020-10-29

[21] **3,195,759**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**

[25] EN

[54] **WOUND CORE**

[54] **NOYAU ENROULE**

[72] KAWAMURA, YUSUKE, JP
[72] MIZUMURA, TAKAHITO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-14
[86] 2021-10-26 (PCT/JP2021/039560)
[87] (WO2022/092120)
[30] JP (2020-179266) 2020-10-26

[21] **3,195,760**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/11 (2017.01)**

[25] EN

[54] **CORNEAL EPITHELIUM SEGMENTATION IN OPTICAL COHERENCE TOMOGRAPHY IMAGES**

[54] **SEGMENTATION D'EPITHELIUM CORNEEN DANS DES IMAGES DE TOMOGRAPHIE PAR COHERENCE OPTIQUE**

[72] RABBANI, PARISA, US
[72] HOSSEINZADEH KASSANI, SAHAR, US
[71] ALCON INC., CH
[85] 2023-04-14
[86] 2021-11-04 (PCT/IB2021/060231)
[87] (WO2022/101749)
[30] US (63/112,833) 2020-11-12

PCT Applications Entering the National Phase

[21] **3,195,761**
[13] A1

[51] **Int.Cl. G01N 21/00 (2006.01) A61L 2/10 (2006.01) B66B 1/14 (2006.01) B66B 1/34 (2006.01)**

[25] EN

[54] **AUTOMATED OPTICAL SYSTEM FOR DETECTION OF A BUTTON SANITARY CONDITION AND CORRESPONDING METHOD**

[54] **SYSTEME OPTIQUE AUTOMATISE DE DETECTION D'ETAT SANITAIRE DE BOUTON ET PROCEDE CORRESPONDANT**

[72] BOISVERT, RAYMOND, CA
[72] MARQUET, PIERRE, CA
[72] VILLEMAIRE, ANDRE, CA
[71] TECHNOLOGIES GRB INC., CA
[85] 2023-04-14
[86] 2021-10-12 (PCT/CA2021/051429)
[87] (WO2022/077099)
[30] US (63/092,022) 2020-10-15

[21] **3,195,762**
[13] A1

[51] **Int.Cl. A61G 1/044 (2006.01) A61G 1/04 (2006.01)**

[25] EN

[54] **STRETCHER EQUIPPED WITH SYSTEMS FOR ATTACHING REMOVABLE MEDICAL EQUIPMENT**

[54] **BRANCARD EQUIPE DE SYSTEMES DE FIXATION D'EQUIPEMENTS MEDICAUX AMOVIBLES**

[72] DAOUK, ANTAR, FR
[71] DAOUK, ANTAR, FR
[85] 2023-04-14
[86] 2021-10-15 (PCT/FR2021/051799)
[87] (WO2022/079396)
[30] FR (FR2010538) 2020-10-15

[21] **3,195,764**
[13] A1

[51] **Int.Cl. A61M 39/04 (2006.01) A61M 39/06 (2006.01)**

[25] EN

[54] **CATHETER SYSTEM INSERT**

[54] **INSERT DE SYSTEME DE CATHETER**

[72] CHEN, XIWEI, CN
[72] YAN, BO, CN
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-04-14
[86] 2021-10-19 (PCT/US2021/055599)
[87] (WO2022/093578)
[30] CN (202011175769.9) 2020-10-29

[21] **3,195,765**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**

[25] EN

[54] **CAPSULE, FOOD OR BEVERAGE PREPARATION MACHINE FOR PROCESSING A CAPSULE, AND FOOD OR BEVERAGE PREPARATION PROCESS IMPLEMENTING SUCH A FOOD OR BEVERAGE PREPARATION MACHINE AND CAPSUL**

[54] **CAPSULE, MACHINE DE PREPARATION D'ALIMENT OU DE BOISSON POUR LE TRAITEMENT D'UNE CAPSULE, ET PROCEDE DE PREPARATION D'ALIMENT OU DE BOISSON METTANT EN ?UVRE UNE TELLE MACHINE DE PREPARATION D'ALIMENT OU DE BOISSON ET CAPSUL**

[72] HEYDEL, CHRISTOPHE SEBASTIEN PAUL, CH
[72] NORDQVIST, DAVID, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2023-04-14
[86] 2021-10-01 (PCT/EP2021/077150)
[87] (WO2022/084008)
[30] EP (20203103.5) 2020-10-21

[21] **3,195,769**
[13] A1

[51] **Int.Cl. H01F 27/245 (2006.01) H01F 41/02 (2006.01)**

[25] EN

[54] **METHOD AND DEVICE FOR PRODUCING WOUND CORE**

[54] **PROCEDE ET DISPOSITIF DE FABRICATION DE NOYAU DE FER ENROULE**

[72] TAKAHASHI, MASARU, JP
[72] MIZUMURA, TAKAHITO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-14
[86] 2021-10-26 (PCT/JP2021/039561)
[87] (WO2022/092121)
[30] JP (2020-178569) 2020-10-26

[21] **3,195,774**
[13] A1

[51] **Int.Cl. H01F 27/245 (2006.01) H01F 41/02 (2006.01)**

[25] EN

[54] **WOUND CORE, METHOD OF PRODUCING WOUND CORE AND WOUND CORE PRODUCTION DEVICE**

[54] **NOYAU DE FER D'ENROULEMENT, PROCEDE DE FABRICATION DE NOYAU DE FER D'ENROULEMENT ET APPAREIL DE FABRICATION DE NOYAU DE FER D'ENROULEMENT**

[72] IWAKI, MASATAKA, JP
[72] MIZUMURA, TAKAHITO, JP
[72] MOGI, HISASHI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-14
[86] 2021-10-26 (PCT/JP2021/039519)
[87] (WO2022/092096)
[30] JP (2020-178561) 2020-10-26

[21] **3,195,775**
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01)**

[25] EN

[54] **ENDOSCOPE ATTACHMENT MECHANISMS AND METHODS OF USE**

[54] **MECANISMES DE FIXATION D'ENDOSCOPE ET METHODES D'UTILISATION**

[72] NOYES, WILLARD S., US
[71] RESNENT, LLC, US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055249)
[87] (WO2022/082022)
[30] US (63/092,733) 2020-10-16

[21] **3,195,776**
[13] A1

[51] **Int.Cl. B60V 1/14 (2006.01)**

[25] EN

[54] **A GROUND EFFECT FLIGHT VEHICLE**

[54] **VEHICULE VOLANT A EFFET DE SOL**

[72] KAZAKLI, AHMET ERDEM, NL
[72] OZISTEK, TADAO DENIZ, GB
[71] SPEEDER SYSTEMS HOLDING B.V., NL
[85] 2023-04-14
[86] 2021-10-12 (PCT/NL2021/050618)
[87] (WO2022/086321)
[30] NL (2026721) 2020-10-21

Demandes PCT entrant en phase nationale

[21] **3,195,777**
[13] A1

[51] **Int.Cl. A61B 5/15 (2006.01) A61B 5/153 (2006.01) A61M 25/06 (2006.01) A61M 39/26 (2006.01)**

[25] EN

[54] **SEPTUM TO FACILITATE BLOOD COLLECTION AND RELATED METHODS**

[54] **SEPTUM POUR FACILITER LA COLLECTE DE SANG ET PROCEDES ASSOCIES**

[72] JIANG, TAO, CN

[72] YAN, BO, CN

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-04-14

[86] 2021-10-19 (PCT/US2021/055605)

[87] (WO2022/093581)

[30] CN (202011175867.2) 2020-10-29

[21] **3,195,780**
[13] A1

[51] **Int.Cl. G05D 23/19 (2006.01)**

[25] EN

[54] **DISPLAY APPARATUS AND METHOD FOR CONTROLLING THE SAME**

[54] **APPAREIL D'AFFICHAGE ET SON PROCEDE DE COMMANDE**

[72] WANG, TSUN-I, CN

[72] WU, CHING-CHUN, CN

[72] YANG, CHIA-LIANG, CN

[71] DYNASCAN TECHNOLOGY CORP., CN

[85] 2023-04-14

[86] 2021-09-16 (PCT/CN2021/118789)

[87] (WO2022/083369)

[30] US (17/074,230) 2020-10-19

[21] **3,195,782**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**

[25] EN

[54] **WOUND CORE**

[54] **NOYAU DE PLAIE**

[72] KAWAMURA, YUSUKE, JP

[72] MIZUMURA, TAKAHITO, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2023-04-14

[86] 2021-10-26 (PCT/JP2021/039551)

[87] (WO2022/092114)

[30] JP (2020-178898) 2020-10-26

[21] **3,195,783**
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TREATMENT AND PREVENTION OF NEUROPATHOLOGY ASSOCIATED WITH NEURODEGENERATIVE DISEASES**

[54] **TRAITEMENT ET PREVENTION DE NEUROPATHOLOGIE ASSOCIEE A DES MALADIES NEURODEGENERATIVES**

[72] RUBIN, KEITH, US

[72] GLAZER, STEVEN, US

[71] ILIAD BIOTECHNOLOGIES, LLC, US

[85] 2023-04-14

[86] 2021-11-16 (PCT/US2021/059579)

[87] (WO2022/108950)

[30] US (63/114,909) 2020-11-17

[21] **3,195,784**
[13] A1

[51] **Int.Cl. A61K 31/165 (2006.01) A61K 31/4164 (2006.01) A61K 31/439 (2006.01)**

[25] EN

[54] **DEGRADANT COMPOUND IN A MEDICAMENT**

[54] **COMPOSE DE DEGRADATION DANS UN MEDICAMENT**

[72] SCHIFFMAN, RHETT MEAD, US

[72] FIRESTONE, BRUCE ALAN, US

[71] VISUS THERAPEUTICS, INC., US

[85] 2023-04-14

[86] 2021-11-02 (PCT/US2021/057720)

[87] (WO2022/094462)

[30] US (63/108,720) 2020-11-02

[30] US (63/162,367) 2021-03-17

[30] US (63/257,024) 2021-10-18

[21] **3,195,785**
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01) A61M 25/01 (2006.01) A61M 25/06 (2006.01) A61M 39/02 (2006.01)**

[25] EN

[54] **IV CATHETER INSERTION GUIDE**

[54] **GUIDE D'INSERTION DE CATHETER INTRAVEINEUX (IV)**

[72] LAUER, SHAUN, US

[72] NALLASWAMY, RAJAKUMAR, US

[72] WHEAT, MITCHELL, US

[72] MOLLOY, RACHEL, US

[72] LACKEY, JOHN, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-04-14

[86] 2021-10-18 (PCT/US2021/055456)

[87] (WO2022/093563)

[30] US (63/107,342) 2020-10-29

[30] US (17/497,708) 2021-10-08

[21] **3,195,786**
[13] A1

[51] **Int.Cl. A61M 5/00 (2006.01) A61M 5/44 (2006.01) A61M 11/00 (2006.01) A61M 11/04 (2006.01) A61M 31/00 (2006.01) A61M 35/00 (2006.01)**

[25] EN

[54] **LAVAGE SYSTEMS AND DEVICES HAVING WARMING COMPONENT**

[54] **SYSTEMES ET DISPOSITIFS DE LAVAGE AYANT UN COMPOSANT DE CHAUFFAGE**

[72] MCGINLEY, CHRISTOPHER, US

[72] KRUEGER, JOHN, US

[72] MASHIATULLA, MALEEHA, US

[72] ZIMBLER, DANIEL, US

[71] CAREFUSION 2200, INC., US

[85] 2023-04-14

[86] 2021-10-14 (PCT/US2021/054906)

[87] (WO2022/081798)

[30] US (63/092,254) 2020-10-15

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[21] **3,195,787**
[13] A1

[51] **Int.Cl. A61M 3/00 (2006.01)**
[25] EN
[54] **LAVAGE SYSTEMS AND DEVICES HAVING MULTIFUNCTIONAL APPLICATION MEMBER**
[54] **SYSTEMES ET DISPOSITIFS DE LAVAGE AYANT UN ELEMENT D'APPLICATION MULTIFONCTIONNEL**
[72] MCGINLEY, CHRISTOPHER, US
[72] KRUEGER, JOHN, US
[72] MASHIATULLA, MALEEHA, US
[72] ZIMBLER, DANIEL, US
[71] CAREFUSION 2200, INC., US
[85] 2023-04-14
[86] 2021-10-14 (PCT/US2021/054970)
[87] (WO2022/081837)
[30] US (63/092,248) 2020-10-15

[21] **3,195,789**
[13] A1

[51] **Int.Cl. C07D 473/12 (2006.01) A61P 1/16 (2006.01) C07C 49/10 (2006.01) C07D 207/16 (2006.01) C07D 213/55 (2006.01) C07D 213/56 (2006.01) C07D 295/02 (2006.01) C07D 307/06 (2006.01) C07D 403/12 (2006.01)**
[25] EN
[54] **SOLID STATE FORMS OF RESMETIROM**
[54] **FORMES SOLIDES DE RESMETIROM**
[72] LAPIDO, POLINA, IL
[72] GOLDSHTEIN, JENNY, IL
[72] KRIMER, VITALY, IL
[72] RUDIK, DORON, IL
[71] TEVA PHARMACEUTICALS INTERNATIONAL GMBH, CH
[85] 2023-04-14
[86] 2021-10-19 (PCT/US2021/055507)
[87] (WO2022/086894)
[30] US (63/093,396) 2020-10-19
[30] US (63/125,425) 2020-12-15
[30] US (63/146,776) 2021-02-08
[30] US (63/158,540) 2021-03-09
[30] US (63/208,032) 2021-06-08

[21] **3,195,790**
[13] A1

[51] **Int.Cl. A61M 3/02 (2006.01)**
[25] EN
[54] **LAVAGE SYSTEMS AND DEVICES HAVING A VENTING COMPONENT**
[54] **SYSTEMES ET DISPOSITIFS DE LAVAGE PRESENTANT UN COMPOSANT DE MISE A L'AIR LIBRE**
[72] MCGINLEY, CHRISTOPHER, US
[72] KRUEGER, JOHN, US
[72] MASHIATULLA, MALEEHA, US
[72] ZIMBLER, DANIEL, US
[72] THURMOND, BRUCE, US
[72] PEREZ, KATYIA, US
[72] PLISHKA, MICHAEL, US
[71] CAREFUSION 2200, INC., US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055278)
[87] (WO2022/082043)
[30] US (63/092,235) 2020-10-15
[30] US (17/501,768) 2021-10-14

[21] **3,195,791**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2023.01) G06Q 50/02 (2012.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD FOR DETERMINING PLANT DATA AND/OR FOR ISSUING TREATMENT INSTRUCTIONS IN HYBRID BREEDING**
[54] **PROCEDE MIS EN ?UVRE PAR ORDINATEUR POUR DETERMINER DES DONNEES DE PLANTE ET/OU POUR EMETTRE DES INSTRUCTIONS DE TRAITEMENT DANS LA SELECTION HYBRIDE**
[72] BUCKENAUER, UWE, DE
[71] BASF SE, DE
[85] 2023-04-14
[86] 2021-10-15 (PCT/EP2021/078660)
[87] (WO2022/079267)
[30] EP (20202026.9) 2020-10-15

[21] **3,195,792**
[13] A1

[51] **Int.Cl. A61K 39/275 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **MODIFIED PARAPOXVIRUS HAVING INCREASED IMMUNOGENICITY**
[54] **PARAPOXVIRUS MODIFIE AYANT UNE IMMUNOGENICITE ACCRUE**
[72] AMANN, RALF, DE
[72] SALOMON, FERDINAND, DE
[71] PRIME VECTOR TECHNOLOGIES GMBH, DE
[85] 2023-04-14
[86] 2021-12-14 (PCT/EP2021/085772)
[87] (WO2022/136032)
[30] EP (20216195.6) 2020-12-21

[21] **3,195,793**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) B01L 7/00 (2006.01) G01N 33/53 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **SARS-COV-2 ANTIGEN LATERAL FLOW ASSAY DETECTION DEVICE AND METHODS FOR USING THE SAME**
[54] **DISPOSITIF DE DETECTION DE DOSAGE A DEBIT LATERAL D'ANTIGENE DU SARS-COV-2 ET SES PROCEDES D'UTILISATION**
[72] REN, HUIMIAO, US
[72] ORLOWSKI, ASHLEY, US
[72] ANDERSON, RICHARD R., US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-04-14
[86] 2021-09-30 (PCT/US2021/052852)
[87] (WO2022/086689)
[30] US (63/093,569) 2020-10-19

Demandes PCT entrant en phase nationale

[21] **3,195,794**
[13] A1

[51] **Int.Cl. A61K 31/675 (2006.01) A61P 35/00 (2006.01) C07F 9/6558 (2006.01)**

[25] EN

[54] **DOSING REGIMENS FOR CYCLIN?DEPENDENT KINASE 7 (CDK7) INHIBITORS**

[54] **SCHEMAS POSOLOGIQUES POUR INHIBITEURS DE LA KINASE 7 DEPENDANTE DES CYCLINES (CDK7)**

[72] ROTH, DAVID A., US

[71] SYROS PHARMACEUTICALS, INC., US

[71] ROTH, DAVID A., US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055297)

[87] (WO2022/082056)

[30] US (63/092,968) 2020-10-16

[21] **3,195,795**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61P 35/00 (2006.01) C07K 7/08 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **TRANSCRIPTION ACTIVE COMPLEX TARGETING CANCER DRUG FROM VIRAL PROTEIN SEQUENCE**

[54] **COMPLEXE ACTIF DE TRANSCRIPTION CIBLANT UN MEDICAMENT CONTRE LE CANCER A PARTIR D'UNE SEQUENCE DE PROTEINES VIRALES**

[72] IZUMIYA, YOSHIHIRO, US

[72] SHIMODA, MICHIKO, US

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

[85] 2023-04-14

[86] 2021-10-21 (PCT/US2021/055979)

[87] (WO2022/087221)

[30] US (63/094,766) 2020-10-21

[30] US (63/152,959) 2021-02-24

[30] US (63/222,697) 2021-07-16

[21] **3,195,797**
[13] A1

[51] **Int.Cl. C12Q 1/6806 (2018.01) C12Q 1/6886 (2018.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR ANALYZING DNA USING PARTITIONING AND BASE CONVERSION**

[54] **COMPOSITIONS ET PROCEDES D'ANALYSE D'ADN PAR DIVISION ET CONVERSION DE BASE**

[72] KENNEDY, ANDREW, US

[72] GREENLEAF, WILLIAM J., US

[71] GUARDANT HEALTH, INC., US

[85] 2023-04-14

[86] 2021-10-21 (PCT/US2021/056106)

[87] (WO2022/087309)

[30] US (63/105,184) 2020-10-23

[21] **3,195,798**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 7/06 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING BLOOD DISORDERS**

[54] **COMPOSITIONS ET PROCEDES POUR TRAITEMENT DE TROUBLES SANGUINS**

[72] YEDNOCK, TED, US

[72] SANKARANARAYANAN, SETHU, US

[71] ANNEXON, INC., US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055216)

[87] (WO2022/081997)

[30] US (63/093,029) 2020-10-16

[21] **3,195,799**
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01) A61K 39/42 (2006.01) A61P 31/18 (2006.01) C12Q 1/70 (2006.01)**

[25] EN

[54] **METHODS OF IDENTIFYING HIV PATIENTS SENSITIVE TO THERAPY WITH GP120 CD4 BINDING SITE-DIRECTED ANTIBODIES**

[54] **PROCEDES D'IDENTIFICATION DES PATIENTS VIH SENSIBLES A LA THERAPIE AVEC DES ANTICORPS VISANT LE SITE DE LIAISON CD4 DE LA GP120**

[72] MARTIN, STEPHEN R., US

[72] MOLDT, BRIAN, BE

[72] PARVANGADA, AIYAPPA, US

[71] GILEAD SCIENCES, INC., US

[85] 2023-04-14

[86] 2021-11-09 (PCT/US2021/058638)

[87] (WO2022/103758)

[30] US (63/112,512) 2020-11-11

[21] **3,195,800**
[13] A1

[51] **Int.Cl. G06F 1/18 (2006.01)**

[25] EN

[54] **SUPERCOMPUTING SERVER SERVEUR DE CALCUL DE HAUTE PERFORMANCE**

[72] LIU, FANGYU, CN

[72] WU, YUEFENG, CN

[72] GAO, YANG, CN

[72] CHEN, QIAN, CN

[72] NING, HONGYAN, CN

[72] YANG, ZUOXING, CN

[71] SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD., CN

[85] 2023-04-14

[86] 2021-06-11 (PCT/CN2021/099705)

[87] (WO2022/105205)

[30] CN (202022701115.7) 2020-11-20

PCT Applications Entering the National Phase

[21] **3,195,801**
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 9/10 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **CD47 BLOCKADE AND COMBINATION THERAPIES THEREOF FOR REDUCTION OF VASCULAR INFLAMMATION**

[54] **BLOCAGE DE CD47 ET POLYTHERAPIES ASSOCIEES POUR LA REDUCTION D'UNE INFLAMMATION VASCULAIRE**

[72] LEEPER, NICHOLAS J., US

[72] WEISSMAN, IRVING L., US

[72] JARR, KAI-UWE, US

[72] KOJIMA, YOKO, US

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

[85] 2023-04-14

[86] 2021-10-21 (PCT/US2021/056090)

[87] (WO2022/093628)

[30] US (63/106,794) 2020-10-28

[21] **3,195,802**
[13] A1

[51] **Int.Cl. H01M 4/13 (2010.01) H01M 4/139 (2010.01) H01M 10/0525 (2010.01)**

[25] EN

[54] **LITHIUM METAL ANODE ASSEMBLIES AND AN APPARATUS AND METHOD OF MAKING**

[54] **ENSEMBLES ANODES METALLIQUES AU LITHIUM ET APPAREIL ET PROCEDE DE FABRICATION**

[72] JOHNSTON, TIMOTHY GEORGE, CA

[72] JASTRZEBSKI, MACIEJ, CA

[71] LI-METAL CORP., CA

[85] 2023-04-14

[86] 2021-10-16 (PCT/CA2021/051454)

[87] (WO2022/077120)

[30] US (63/092,849) 2020-10-16

[30] US (63/190,738) 2021-05-19

[30] US (63/222,857) 2021-07-16

[21] **3,195,803**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01) H04B 7/19 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CALIBRATING GROUND STATIONS**

[54] **SYSTEMES ET PROCEDES D'ETALONNAGE DE STATIONS AU SOL**

[72] BLATT, ROY, US

[71] VIASAT, INC., US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055255)

[87] (WO2022/082026)

[30] US (63/092,884) 2020-10-16

[21] **3,195,806**
[13] A1

[51] **Int.Cl. G06V 10/25 (2022.01) G16H 10/40 (2018.01) G16H 30/40 (2018.01) G16H 50/30 (2018.01) G06V 10/70 (2022.01) G06V 20/69 (2022.01)**

[25] EN

[54] **SYSTEMS AND METHODS TO PROCESS ELECTRONIC IMAGES TO IDENTIFY DIAGNOSTIC TESTS**

[54] **SYSTEMES ET PROCEDES POUR TRAITER DES IMAGES ELECTRONIQUES POUR IDENTIFIER DES TESTS DE DIAGNOSTIC**

[72] GRADY, LEO, US

[72] KANAN, CHRISTOPHER, US

[72] REIS-FILHO, JORGE SERGIO, US

[72] DOGDAS, BELMA, US

[72] HOULISTON, MATTHEW, US

[71] PAIGE.AI, INC., US

[85] 2023-04-14

[86] 2021-10-19 (PCT/US2021/055549)

[87] (WO2022/086921)

[30] US (63/104,923) 2020-10-23

[21] **3,195,809**
[13] A1

[51] **Int.Cl. A61K 8/25 (2006.01) A61K 8/73 (2006.01)**

[25] EN

[54] **FILMS AND ORAL CARE COMPOSITIONS**

[54] **FILMS ET COMPOSITIONS DE SOINS BUCCO-DENTAIRE**

[72] CHEN, DAILIN, CN

[72] XU, SHAOPENG, CN

[72] WU, DIDI, CN

[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2023-04-14

[86] 2021-10-29 (PCT/US2021/057285)

[87] (WO2022/094233)

[30] CN (202011200316.7) 2020-10-30

[21] **3,195,810**
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61B 17/50 (2006.01)**

[25] EN

[54] **CLOT REMOVAL METHODS AND DEVICES WITH MULTIPLE INDEPENDENTLY CONTROLLABLE ELEMENTS**

[54] **PROCEDES ET DISPOSITIFS D'ELIMINATION DE CAILLOT AVEC DES ELEMENTS MULTIPLES POUVANT ETRE COMMANDES INDEPENDAMMENT**

[72] HOROWITZ, MICHAEL BRUCE, US

[72] BOBO, BENJAMIN WILLIAM, US

[72] REPKO, BRANDON MATTHEW, US

[71] RETRIEVER MEDICAL, INC., US

[85] 2023-04-14

[86] 2021-10-14 (PCT/US2021/071888)

[87] (WO2022/082213)

[30] US (63/092,428) 2020-10-15

[30] US (63/215,583) 2021-06-28

[30] US (63/215,573) 2021-06-28

[30] US (63/260,406) 2021-08-19

[30] US (63/215,587) 2021-06-28

[30] US (63/215,565) 2021-06-28

[30] US (63/215,724) 2021-06-28

[30] US (63/215,579) 2021-06-28

[30] US (17/127,521) 2020-12-18

Demandes PCT entrant en phase nationale

[21] **3,195,812**
[13] A1

[51] **Int.Cl. A61B 17/29 (2006.01) A61B 18/00 (2006.01) A61B 18/02 (2006.01) A61B 18/04 (2006.01) A61B 18/14 (2006.01)**

[25] EN

[54] **HEART VALVE ABLATION CATHETER**

[54] **CATHETER D'ABLATION DE VALVULE CARDIAQUE**

[72] KEREN, DVIR, IL

[72] SHENHAV, BOAZ, IL

[71] BIO REFINE LTD., IL

[85] 2023-04-14

[86] 2021-05-04 (PCT/IL2021/050512)

[87] (WO2022/097130)

[30] US (63/111,033) 2020-11-08

[21] **3,195,814**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/24 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **FILMS AND ORAL CARE COMPOSITIONS COMPRISING SAME**

[54] **FILMS ET COMPOSITIONS DE SOINS BUCCO-DENTAIRES LES COMPRENANT**

[72] CHEN, DAILIN, CN

[72] XU, SHAOPENG, CN

[72] WU, DIDI, CN

[71] COLGATE-PALMOLIVE COMPANY, US

[85] 2023-04-14

[86] 2021-10-29 (PCT/US2021/057248)

[87] (WO2022/094212)

[30] CN (202011200270.9) 2020-10-30

[21] **3,195,816**
[13] A1

[51] **Int.Cl. B05C 17/01 (2006.01)**

[25] EN

[54] **A DISPENSER AND A CONTROL METHOD OF THE DISPENSER**

[54] **DISTRIBUTEUR ET PROCEDE DE COMMANDE DU DISTRIBUTEUR**

[72] STOLT, ROCCO, DE

[72] WIEDEMANN, MICHAEL, DE

[71] HILTI AKTIENGESELLSCHAFT, LI

[85] 2023-04-14

[86] 2021-11-16 (PCT/EP2021/081812)

[87] (WO2022/122315)

[30] EP (20212987.0) 2020-12-10

[21] **3,195,817**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **CHIMERIC RECEPTORS AND METHODS OF USE THEREOF**

[54] **RECEPTEURS CHIMERIQUES ET PROCEDES D'UTILISATION DE CES DERNIERS**

[72] GARRISON, BRIAN SCOTT, US

[72] HUNG, MICHELLE ELIZABETH, US

[72] FRANKEL, NICHOLAS, US

[71] SENTI BIOSCIENCES, INC., US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055302)

[87] (WO2022/082059)

[30] US (63/092,736) 2020-10-16

[30] US (63/151,483) 2021-02-19

[21] **3,195,819**
[13] A1

[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/34 (2006.01)**

[25] EN

[54] **SENSORY ENHANCED AND MOISTURIZING HAND SANITIZER FORMULATIONS UTILIZING NON-EMULSION TECHNOLOGIES**

[54] **FORMULATIONS DE DESINFECTANT POUR LES MAINS A AMELIORATION SENSORIELLE ET HYDRATANTES UTILISANT DES TECHNOLOGIES DE NON-EMULSION**

[72] MCINTYRE, TYLER, US

[72] GREEN, BENJAMIN, US

[72] MOONEY, KARISSA, US

[72] ROZIC, CLAYTON, US

[72] VALIANPOUR, FREDEON, US

[71] HOLLYFRONTIER LSP BRAND STRATEGIES LLC, US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055132)

[87] (WO2022/081943)

[30] US (63/092,553) 2020-10-16

[21] **3,195,820**
[13] A1

[51] **Int.Cl. A23D 9/02 (2006.01) A23K 20/147 (2016.01) A23L 33/17 (2016.01) A23J 3/00 (2006.01) A23J 3/04 (2006.01) A61K 35/62 (2006.01) A61K 35/64 (2015.01) F26B 3/092 (2006.01) F26B 9/08 (2006.01) F26B 17/26 (2006.01) F26B 21/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A PROTEIN MEAL FROM INSECTS, IN PARTICULAR FROM INSECT LARVAE AND INSECT PUPAE, OR FROM WORMS, AND DRYING APPARATUS FOR USE IN SUCH A METHOD**

[54] **PROCEDE DE PRODUCTION D'UNE FARINE DE PROTEINES A PARTIR D'INSECTES, EN PARTICULIER A PARTIR DE LARVES D'INSECTES ET DE NYMPHES D'INSECTES, OU A PARTIR DE VERS, ET APPAREIL DE SECHAGE DESTINE A ETRE UTILISE DANS UN TEL PROCEDE**

[72] AARTS, KEES WILHELMUS PETRUS, NL

[72] ARSIWALLA, TARIQUE, NL

[72] JANSEN, MAURITS PETRUS MARIA, NL

[71] BUHLER AG, CH

[85] 2023-04-14

[86] 2021-09-20 (PCT/EP2021/075783)

[87] (WO2022/089836)

[30] EP (20204250.3) 2020-10-28

[21] **3,195,822**
[13] A1

[51] **Int.Cl. F24F 12/00 (2006.01) F24F 13/10 (2006.01) F24F 13/14 (2006.01)**

[25] EN

[54] **CLOSURE UNIT FOR A VENTILATION DEVICE**

[54] **UNITE DE FERMETURE D'UN DISPOSITIF DE VENTILATION**

[72] SCHRODER, DANIEL, DE

[72] EITZENHOFER, RICO, DE

[71] VISSMANN CLIMATE SOLUTIONS SE, DE

[85] 2023-04-14

[86] 2021-10-14 (PCT/EP2021/078504)

[87] (WO2022/084156)

[30] EP (20203051.6) 2020-10-21

PCT Applications Entering the National Phase

[21] **3,195,824**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**

[25] EN
[54] **WOUND CORE**
[54] **NOYAU ENROULE**
[72] MIZUMURA, TAKAHITO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-14
[86] 2021-10-26 (PCT/JP2021/039548)
[87] (WO2022/092112)
[30] JP (2020-179267) 2020-10-26

[21] **3,195,825**
[13] A1

[51] **Int.Cl. A61B 17/16 (2006.01)**

[25] EN
[54] **TOOL HOLDER FOR MODULAR TOOL**
[54] **PORTE-OUTIL POUR OUTIL MODULAIRE**
[72] BIBARD, LEOPOLD, FR
[72] LE HENANF, CORENTIN, FR
[72] RETAILLEAU, VINCENT, FR
[72] SOQUENNE, EDGARD, FR
[71] OSTIUM GROUP, FR
[85] 2023-04-14
[86] 2021-08-18 (PCT/EP2021/072886)
[87] (WO2022/083918)
[30] EP (20306248.4) 2020-10-20

[21] **3,195,826**
[13] A1

[51] **Int.Cl. H04W 72/04 (2023.01)**

[25] EN
[54] **UPLINK CONTROL INFORMATION SENDING METHOD AND RECEIVING METHOD, AND COMMUNICATION APPARATUS**
[54] **PROCEDE D'ENVOI ET PROCEDE DE RECEPTION D'INFORMATIONS DE COMMANDE DE LIAISON MONTANTE, ET APPAREIL DE COMMUNICATION**
[72] JIA, QIONG, CN
[72] ZHANG, JIAYIN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2023-04-14
[86] 2020-10-15 (PCT/CN2020/121319)
[87] (WO2022/077396)

[21] **3,195,827**
[13] A1

[51] **Int.Cl. H01F 27/245 (2006.01) H01F 41/02 (2006.01)**

[25] EN
[54] **WOUND CORE, METHOD OF PRODUCING WOUND CORE AND WOUND CORE PRODUCTION DEVICE**
[54] **NOYAU DE FER ENROULE, ET PROCEDE ET DISPOSITIF DE FABRICATION DE NOYAU DE FER ENROULE**
[72] MIZUMURA, TAKAHITO, JP
[72] MOGI, HISASHI, JP
[72] MIZOKAMI, MASATO, JP
[72] TAKAHASHI, MASARU, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-14
[86] 2021-10-26 (PCT/JP2021/039530)
[87] (WO2022/092101)
[30] JP (2020-178565) 2020-10-26

[21] **3,195,828**
[13] A1

[51] **Int.Cl. B01J 7/00 (2006.01) B01J 8/00 (2006.01) B01J 19/18 (2006.01) C01B 3/02 (2006.01) C01B 3/06 (2006.01)**

[25] EN
[54] **SYSTEM FOR ON-DEMAND PRODUCTION OF HYDROGEN FROM A CARRIER FLUID AND DISPOSAL OF SOLID BYPRODUCTS**
[54] **SYSTEME DE PRODUCTION D'HYDROGENE A LA DEMANDE A PARTIR D'UN FLUIDE PORTEUR ET ELIMINATION DE SOUS-PRODUITS SOLIDES**
[72] MUSSOT, JEAN-LUC, FR
[72] LOME, VINCENT, FR
[71] HYSILABS, SAS, FR
[85] 2023-04-14
[86] 2021-10-20 (PCT/EP2021/079097)
[87] (WO2022/090029)
[30] EP (20204981.3) 2020-10-30

[21] **3,195,830**
[13] A1

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

[25] EN
[54] **LENTIVIRAL VECTORS ENABLING ROUTING ANTIGENS TO MHC-II PATHWAY AND INDUCING CD4+ AND CD8+ T-CELL RESPONSES IN A HOST**
[54] **VECTEURS LENTIVIRAUX PERMETTANT L'ACHEMINEMENT DES ANTIGENES VERS LA VOIE MHC-II ET L'INDUCTION DE REPONSES CELLULAIRES T CD4+ ET CD8+ CHEZ UN HOTE**
[72] CHARNEAU, PIERRE, FR
[72] MAJLESSI, LALEH, FR
[72] LOPEZ, JODIE, FR
[72] ANNA, FRANCOIS, FR
[72] BLANC, CATHERINE, FR
[72] MONCOQ, FANNY, FR
[71] THERAVECTYS, FR
[85] 2023-04-14
[86] 2021-10-15 (PCT/EP2021/078715)
[87] (WO2022/079303)
[30] EP (20306235.1) 2020-10-16

[21] **3,195,832**
[13] A1

[51] **Int.Cl. H01F 27/245 (2006.01) H01F 41/02 (2006.01)**

[25] EN
[54] **WOUND CORE, METHOD OF PRODUCING WOUND CORE AND WOUND CORE PRODUCTION DEVICE**
[54] **NOYAU ENROULE, ET PROCEDE ET DISPOSITIF DE FABRICATION DE NOYAU ENROULE**
[72] IWAKI, MASATAKA, JP
[72] MIZUMURA, TAKAHITO, JP
[72] MOGI, HISASHI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-14
[86] 2021-10-26 (PCT/JP2021/039554)
[87] (WO2022/092117)
[30] JP (2020-178560) 2020-10-26

Demandes PCT entrant en phase nationale

[21] **3,195,833**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS OF DIAGNOSTIC OF LIVER FIBROSIS**
[54] **PROCEDES DE DIAGNOSTIC DE LA FIBROSE HEPATIQUE**
[72] HOSMANE, SUNEIL, US
[72] MAGNANENSI, JEREMY, FR
[72] HAJJI, YACINE, FR
[71] GENFIT, FR
[85] 2023-04-14
[86] 2021-10-29 (PCT/EP2021/080096)
[87] (WO2022/090452)
[30] EP (20306303.7) 2020-10-30

[21] **3,195,834**
[13] A1

[51] **Int.Cl. A61F 9/008 (2006.01)**
[25] EN
[54] **OPHTHALMOLOGICAL IMAGING AND LASER DELIVERY DEVICE, SYSTEM AND METHODS**
[54] **DISPOSITIF, SYSTEME ET PROCEDES OPHTHALMOLOGIQUES D'IMAGERIE ET D'ADMINISTRATION DE LASER**
[72] ELEZZABI, ABDULHAKEM, CA
[72] KATCHINSKIY, NIR, CA
[71] PULSEMEDICA CORP., CA
[85] 2023-04-14
[86] 2021-10-15 (PCT/CA2021/051451)
[87] (WO2022/077117)
[30] CA (3096285) 2020-10-16

[21] **3,195,835**
[13] A1

[51] **Int.Cl. A61C 8/00 (2006.01)**
[25] EN
[54] **DENTAL IMPLANT ABUTMENT HAVING OCCLUSAL FORCE BUFFERING FUNCTION**
[54] **POINT D'APPUI D'IMPLANT DENTAIRE PRESENTANT UNE FONCTION TAMPON DE FORCE OCCLUSIVE**
[72] KIM, HYUNG-WOO, KR
[71] DENFLEX CO., LTD., KR
[85] 2023-04-14
[86] 2021-10-14 (PCT/KR2021/014213)
[87] (WO2022/086048)
[30] KR (10-2020-0135868) 2020-10-20
[30] KR (10-2021-0103142) 2021-08-05

[21] **3,195,836**
[13] A1

[51] **Int.Cl. A61F 5/445 (2006.01)**
[25] EN
[54] **OSTOMY PRODUCT WITH ANTI-REFLUX DEVICE**
[54] **PRODUIT DE STOMIE COMPRENANT UN DISPOSITIF ANTI-REFLUX**
[72] NIELSEN, KENNETH, US
[71] HOLLISTER INCORPORATED, US
[85] 2023-04-14
[86] 2021-11-18 (PCT/US2021/059833)
[87] (WO2022/115304)
[30] US (63/118,095) 2020-11-25

[21] **3,195,838**
[13] A1

[51] **Int.Cl. A61B 17/221 (2006.01)**
[25] EN
[54] **CLOT RETRIEVAL SYSTEM**
[54] **SYSTEME DE RECUPERATION DE CAILLOT**
[72] ULM III, ARTHUR JOHN, US
[71] LEGACY VENTURES LLC, US
[85] 2023-04-14
[86] 2021-10-20 (PCT/US2021/055853)
[87] (WO2022/087136)
[30] US (17/075,304) 2020-10-20

[21] **3,195,839**
[13] A1

[51] **Int.Cl. B05C 17/01 (2006.01)**
[25] EN
[54] **A DISPENSER AND A CONTROL METHOD OF THE DISPENSER**
[54] **DISTRIBUTEUR ET PROCEDE DE COMMANDE DU DISTRIBUTEUR**
[72] WIEDEMANN, MICHAEL, DE
[72] STOLT, ROCCO, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2023-04-14
[86] 2021-11-16 (PCT/EP2021/081800)
[87] (WO2022/122312)
[30] EP (20212973.0) 2020-12-10

[21] **3,195,840**
[13] A1

[51] **Int.Cl. E21B 33/128 (2006.01) E21B 23/06 (2006.01) E21B 34/08 (2006.01) E21B 34/10 (2006.01)**
[25] EN
[54] **SWELLABLE PACKER ASSEMBLIES, DOWNHOLE PACKER SYSTEMS, AND METHODS TO SEAL A WELLBORE**
[54] **ENSEMBLES GARNITURE D'ETANCHEITE GONFLABLE, SYSTEMES DE GARNITURE D'ETANCHEITE DE FOND DE TROU ET PROCEDES POUR SCELLER UN Puits DE FORAGE**
[72] LEAST, BRANDON, US
[72] FRIPP, MICHAEL L., US
[72] GRECI, STEPHEN M., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-04-14
[86] 2020-12-17 (PCT/US2020/065539)
[87] (WO2022/132150)
[30] US (17/121,448) 2020-12-14

[21] **3,195,841**
[13] A1

[51] **Int.Cl. A61F 5/451 (2006.01) A61F 5/453 (2006.01) A61F 5/455 (2006.01)**
[25] EN
[54] **FLUID COLLECTION DEVICES HAVING A SUMP BETWEEN A TUBE OPENING AND A BARRIER, AND RELATED SYSTEMS AND METHODS**
[54] **DISPOSITIFS DE COLLECTE DE FLUIDE COMPORTANT UN PUISARD ENTRE UNE OUVERTURE DE TUBE ET UNE BARRIERE, ET SYSTEMES ET PROCEDES ASSOCIES**
[72] NEWTON, CAMILLE ROSE, US
[71] PUREWICK CORPORATION, US
[85] 2023-04-14
[86] 2021-07-30 (PCT/US2021/043893)
[87] (WO2022/182385)
[30] US (63/154,248) 2021-02-26

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[21] **3,195,842**
[13] A1

[51] **Int.Cl. H01J 37/04 (2006.01) H01J 37/317 (2006.01)**
[25] EN
[54] **APERTURE PATTERNS FOR DEFINING MULTI-BEAMS**
[54] **MOTIFS D'OUVERTURES SERVANT A DEFINIR DES FAISCEAUX MULTIPLES**
[72] WIELAND, MARCO JAN-JACO, NL
[71] ASML NETHERLANDS B.V., NL
[85] 2023-04-14
[86] 2021-10-04 (PCT/EP2021/077305)
[87] (WO2022/078802)
[30] EP (20202039.2) 2020-10-15

[21] **3,195,844**
[13] A1

[51] **Int.Cl. E21B 4/00 (2006.01) E21B 17/04 (2006.01)**
[25] EN
[54] **PRESSURE COMPENSATION PISTON FOR DYNAMIC SEAL PRESSURE DIFFERENTIAL MINIMIZATION**
[54] **PISTON DE COMPENSATION DE PRESSION POUR MINIMALISER UN DIFFERENTIEL DE PRESSION D'UN JOINT D'ETANCHEITE DYNAMIQUE**
[72] MUNGUIA, JOSEPH ROBERT, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-04-14
[86] 2020-12-14 (PCT/US2020/064825)
[87] (WO2022/132123)
[30] US (17/120,654) 2020-12-14

[21] **3,195,845**
[13] A1

[51] **Int.Cl. F28D 20/00 (2006.01)**
[25] EN
[54] **FRACTAL STORE**
[54] **ENTREPOT FRACTAL**
[72] SCHICHTEL, MARTIN, DE
[71] KRAFTBLOCK GMBH, DE
[85] 2023-04-14
[86] 2021-10-01 (PCT/EP2021/077148)
[87] (WO2022/084007)
[30] DE (10 2020 127 987.6) 2020-10-23

[21] **3,195,846**
[13] A1

[51] **Int.Cl. F24F 3/167 (2021.01) F24F 11/49 (2018.01) F24F 11/54 (2018.01)**
[25] EN
[54] **A CLEAN ROOM SYSTEM AS WELL AS A COMPUTER IMPLEMENTED METHOD FOR CONTROLLING SUCH CLEAN ROOM SYSTEM**
[54] **SYSTEME DE SALLE BLANCHE, ET PROCEDE MIS EN ?UVRE PAR ORDINATEUR POUR COMMANDER UN TEL SYSTEME DE SALLE BLANCHE**
[72] DE MUNTER, JOHANNES PETRUS JOZEF MARIA, NL
[72] LANG, EKKEHARD, NL
[71] NEUROPLAST BEHEER B.V., NL
[85] 2023-04-14
[86] 2021-10-13 (PCT/EP2021/078358)
[87] (WO2022/079121)
[30] EP (20202396.6) 2020-10-16

[21] **3,195,847**
[13] A1

[51] **Int.Cl. F42B 14/06 (2006.01) F42B 5/28 (2006.01) F42B 8/02 (2006.01) F42B 12/76 (2006.01)**
[25] EN
[54] **REDUCED-ENERGY CARTRIDGE WITH EXTERIOR SEALING MEMBER FOR FLUTED CHAMBER**
[54] **CARTOUCHE A ENERGIE REDUITE DOTEE D'UN ELEMENT D'ETANCHEITE EXTERIEUR POUR CHAMBRE CANNELEE**
[72] DOIRON, MARTIN, CA
[72] DION, RICHARD, CA
[72] GAGNE, JULIEN, CA
[72] DIONNE, SYLVAIN, CA
[71] GENERAL DYNAMICS OTS - CANADA, INC., CA
[85] 2023-04-14
[86] 2021-11-03 (PCT/CA2021/051561)
[87] (WO2022/099407)
[30] US (16/949,748) 2020-11-12

[21] **3,195,848**
[13] A1

[51] **Int.Cl. E21B 17/02 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **ELECTRIC SUBMERSIBLE PUMP (ESP) POWER CABLE SPLICE CONTAINMENT FILLER**
[54] **CHARGE DE CONFINEMENT D'EPISSURE DE CABLE D?ALIMENTATION DE POMPE SUBMERSIBLE ELECTRIQUE (ESP)**
[72] GLASSCOCK, TERRY LYNN, US
[72] MUNOZ, JOSEPH MICHAEL, US
[72] MARRICLE, DAVID KEITH, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-04-14
[86] 2021-01-26 (PCT/US2021/015061)
[87] (WO2022/159117)
[30] US (17/152,510) 2021-01-19

[21] **3,195,849**
[13] A1

[51] **Int.Cl. C04B 28/04 (2006.01) C04B 40/06 (2006.01)**
[25] EN
[54] **METHOD FOR THE REFURBISHMENT OF POROUS CONSTRUCTION MATERIALS**
[54] **PROCEDE DE REFECTION DE MATERIAUX DE CONSTRUCTION POREUX**
[72] PARDOS, YOLANDA, ES
[72] QUESADA, JAVIER, ES
[71] SIKA TECHNOLOGY AG, CH
[85] 2023-04-14
[86] 2021-11-12 (PCT/EP2021/081576)
[87] (WO2022/106320)
[30] EP (20382993.2) 2020-11-17

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[21] **3,195,850**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-MSLN BINDING AGENTS, CONJUGATES THEREOF AND METHODS OF USING THE SAME**
[54] **AGENTS DE LIAISON ANTI-MSLN, LEURS CONJUGUES ET LEURS PROCÉDES D'UTILISATION**
[72] SUTHERLAND, MAY KUNG, US
[72] SMITH, MARIA LEIA, US
[71] ARDEAGEN CORPORATION, US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055313)
[87] (WO2022/082068)
[30] US (63/093,254) 2020-10-18

[21] **3,195,851**
[13] A1

[51] **Int.Cl. A01D 41/06 (2006.01)**
[25] EN
[54] **DRAPER HEADER WITH AUTOMATIC REEL TO CUTTER BAR CLEARANCE**
[54] **TABLE DE COUPE A TABLIER A DEGAGEMENT AUTOMATIQUE DU RABATTEUR DE LA BARRE DE COUPE**
[72] MALKOWICH, GARRETT, CA
[72] SHEARER, BRUCE ROBERT, CA
[72] DUNN, JAMES THOMAS, CA
[71] MACDON INDUSTRIES LTD., CA
[85] 2023-04-14
[86] 2021-10-18 (PCT/CA2021/051459)
[87] (WO2022/077122)
[30] US (63/092,523) 2020-10-16

[21] **3,195,852**
[13] A1

[51] **Int.Cl. E21B 10/43 (2006.01) E21B 10/46 (2006.01)**
[25] EN
[54] **REVERSIBLE POLYCRYSTALLINE DIAMOND COMPACT BIT**
[54] **TREPAN COMPACT EN DIAMANT POLYCRISTALLIN REVERSIBLE**
[72] XU, JIANHUI, SA
[72] ZHAN, GUODONG, SA
[72] MOELLENDICK, TIMOTHY ERIC, SA
[72] SHAARAWI, AMJAD O., SA
[72] AL-JOHAR, ABDULWAHAB S., SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055187)
[87] (WO2022/081977)
[30] US (17/072,464) 2020-10-16

[21] **3,195,853**
[13] A1

[51] **Int.Cl. G06E 1/00 (2006.01)**
[25] EN
[54] **ARTIFICIAL INTELLIGENCE DRIVEN DOCUMENT ANALYSIS, INCLUDING SEARCHING, INDEXING, COMPARING OR ASSOCIATING DATASETS BASED ON LEARNED REPRESENTATIONS**
[54] **ANALYSE DE DOCUMENT PAR INTELLIGENCE ARTIFICIELLE CONSISTANT A RECHERCHER, A INDEXER, A COMPARER OU A ASSOCIER DES ENSEMBLES DE REPRESENTATIONS APPRISES**
[72] LOCKETT, ALAN JUSTIN, US
[72] ROLLINGS, RYAN CONNOR, US
[71] CS DISCO, INC., US
[85] 2023-04-14
[86] 2021-10-14 (PCT/US2021/054930)
[87] (WO2022/081812)
[30] US (17/073,087) 2020-10-16

[21] **3,195,854**
[13] A1

[25] EN
[54] **CONFIGURING DEDICATED SERVICE FLOWS FOR HOME NETWORKS**
[54] **CONFIGURATION DE FLUX DE SERVICES DEDIES POUR DES RESEAUX DOMESTIQUES**
[72] ANSLEY, CAROL J., US
[72] CHEEVERS, CHARLES PETER, US
[71] ARRIS ENTERPRISES LLC, US
[85] 2023-04-14
[86] 2021-09-01 (PCT/US2021/048631)
[87] (WO2022/093394)
[30] US (63/107,084) 2020-10-29

[21] **3,195,855**
[13] A1

[51] **Int.Cl. B62D 55/265 (2006.01)**
[25] EN
[54] **MAGNETICALLY-ATTRACTING CRAWLER MOVING DEVICE, MULTI-CONNECTED MAGNETICALLY-ATTRACTING CRAWLER MOVING DEVICE, AND GENERATOR INSPECTION ROBOT**
[54] **DISPOSITIF DE DEPLACEMENT A CHENILLES MAGNETIQUE, LEDIT DISPOSITIF EN CONNEXION MULTIPLE ET ROBOT D'INSPECTION DE GENERATEUR**
[72] GOTO, DAICHI, JP
[72] KOYANAGI, EIJI, JP
[71] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2023-04-14
[86] 2020-11-06 (PCT/JP2020/041473)
[87] (WO2022/097256)

[21] **3,195,857**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER CABLE**
[54] **CABLE A FIBRE OPTIQUE**
[72] MIYATA, MIKU, JP
[72] MURATA, AKIRA, JP
[71] FUJIKURA LTD., JP
[85] 2023-04-14
[86] 2021-07-06 (PCT/JP2021/025417)
[87] (WO2022/085244)
[30] JP (2020-175527) 2020-10-19

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[21] **3,195,858**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER CABLE**
[54] **CABLE A FIBRES OPTIQUES**
[72] MIYATA, MIKU, JP
[72] MURATA, AKIRA, JP
[71] FUJIKURA LTD., JP
[85] 2023-04-14
[86] 2021-07-06 (PCT/JP2021/025418)
[87] (WO2022/085245)
[30] JP (2020-175528) 2020-10-19

[21] **3,195,859**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/72 (2006.01) A61K 31/519 (2006.01) A61P 11/00 (2006.01) A61P 43/00 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **INHALED FORMULATIONS OF PGDH INHIBITORS AND METHODS OF USE THEREOF**
[54] **FORMULATIONS INHALEES D'INHIBITEURS DE PGDH ET LEURS PROCEDES D'UTILISATION**
[72] RAI, ROOPA, US
[72] BOOTH, ROBERT, US
[71] EPIRIUM BIO INC., US
[71] MYOFORTE THERAPEUTICS, INC., US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055230)
[87] (WO2022/082009)
[30] US (63/092,127) 2020-10-15
[30] US (63/226,682) 2021-07-28

[21] **3,195,860**
[13] A1

[51] **Int.Cl. B25J 15/00 (2006.01) B25J 21/00 (2006.01)**
[25] EN
[54] **DEVICE FOR HANDLING CONTAINERS INSIDE A CLEAN ROOM, A SYSTEM AND A CLEAN ROOM COMPRISING A CORRESPONDING DEVICE, AND A METHOD FOR HANDLING CONTAINERS INSIDE A CLEAN ROOM**
[54] **DISPOSITIF POUR LA MANIPULATION DE RECIPIENTS A L'INTERIEUR D'UNE SALLE BLANCHE, SYSTEME ET SALLE BLANCHE COMPRENANT UN DISPOSITIF CORRESPONDANT, ET PROCEDE DE MANIPULATION DE RECIPIENTS A L'INTERIEUR D'UNE SALLE BLANCH**
[72] ILGENFRITZ, MARKUS, DE
[72] KRAUSS, ULRICH, DE
[72] NAGLER, STEFAN, DE
[72] KUHNLE, ALBRECHT, DE
[72] HOLL, PATRICK, DE
[71] SYNTEGON TECHNOLOGY GMBH, DE
[85] 2023-04-14
[86] 2021-09-17 (PCT/EP2021/075692)
[87] (WO2022/089833)
[30] DE (10 2020 128 519.1) 2020-10-29

[21] **3,195,861**
[13] A1

[51] **Int.Cl. A61L 2/02 (2006.01) B65B 3/00 (2006.01) B65B 7/00 (2006.01) B65B 55/00 (2006.01) B65D 81/20 (2006.01)**
[25] EN
[54] **CLOSING APPARATUS FOR CLOSING PHARMACEUTICAL CONTAINERS**
[54] **APPAREIL DE FERMETURE POUR FERMER DES RECIPIENTS PHARMACEUTIQUES**
[72] BERGER, TOBIAS, DE
[72] KRAUSS, ULRICH, DE
[72] ILGENFRITZ, MARKUS, DE
[71] SYNTEGON TECHNOLOGY GMBH, DE
[85] 2023-04-14
[86] 2021-08-05 (PCT/EP2021/071895)
[87] (WO2022/096169)
[30] DE (10 2020 129 169.8) 2020-11-05

[21] **3,195,862**
[13] A1

[51] **Int.Cl. F25B 6/04 (2006.01) F25B 41/20 (2021.01) F25B 40/02 (2006.01) F25B 5/02 (2006.01)**
[25] EN
[54] **CO2 REFRIGERATION SYSTEM WITH EXTERNAL COOLANT CONTROL**
[54] **SYSTEME DE REFRIGERATION CO2 AVEC REGULATION EXTERNE DU LIQUIDE DE REFROIDISSEMENT**
[72] MARTIN, J. SCOTT, US
[71] HILL PHOENIX, INC., US
[85] 2023-04-14
[86] 2021-10-18 (PCT/US2021/055384)
[87] (WO2022/082094)
[30] US (63/092,580) 2020-10-16

[21] **3,195,863**
[13] A1

[51] **Int.Cl. C07K 14/65 (2006.01) G01N 33/543 (2006.01) G01N 33/577 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **NOVEL BIOMARKER OF ACUTE CORONARY SYNDROMES**
[54] **NOUVEAU BIOMARQUEUR DE SYNDROMES CORONAIRES AIGUS**
[72] PEMBERTON, CHRISTOPHER JOSEPH, NZ
[71] UPSTREAM MEDICAL TECHNOLOGIES LIMITED, NZ
[85] 2023-04-14
[86] 2021-10-22 (PCT/NZ2021/050185)
[87] (WO2022/086347)
[30] US (63/104,917) 2020-10-23

[21] **3,195,864**
[13] A1

[51] **Int.Cl. B23C 5/10 (2006.01) B23C 5/22 (2006.01)**
[25] EN
[54] **HIGH-FEED PLUNGE MILLING TOOL**
[54] **OUTIL DE FRAISAGE EN PLONGEE A VITESSE D'AVANCE ELEVEE**
[72] HECHT, GIL, IL
[71] ISCAR LTD., IL
[85] 2023-04-14
[86] 2021-09-29 (PCT/IL2021/051170)
[87] (WO2022/084984)
[30] US (63/093,409) 2020-10-19

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[21] **3,195,865**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01)**

[25] EN

[54] **ANTI-CSPG4 BINDING AGENTS, CONJUGATES THEREOF AND METHODS OF USING THE SAME**

[54] **AGENTS DE LIAISON ANTI-CSPG4, CONJUGUES DE CES DERNIERS ET PROCEDES D'UTILISATION DE CEUX-CI**

[72] SMITH, MARIA LEIA, US

[72] SUTHERLAND, MAY KUNG, US

[71] ARDEAGEN CORPORATION, US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055311)

[87] (WO2022/082066)

[30] US (63/093,255) 2020-10-18

[21] **3,195,866**
[13] A1

[51] **Int.Cl. B23C 5/06 (2006.01) B23C 5/20 (2006.01) B23C 5/22 (2006.01)**

[25] EN

[54] **REVERSIBLE SQUARE-SHAPED CUTTING INSERT AND ROTARY CUTTING TOOL**

[54] **PLAQUETTE DE COUPE DE FORME CARREE REVERSIBLE ET OUTIL DE COUPE ROTATIF**

[72] PASSOV, ALEXANDER, IL

[72] BRONSHTEYN, ALEXANDER, IL

[71] ISCAR LTD., IL

[85] 2023-04-14

[86] 2021-09-22 (PCT/IL2021/051149)

[87] (WO2022/084983)

[30] US (63/093,464) 2020-10-19

[21] **3,195,867**
[13] A1

[51] **Int.Cl. B23B 29/04 (2006.01) B23B 31/103 (2006.01)**

[25] EN

[54] **TOOL COUPLING**

[54] **ACCOUPLLEMENT D'OUTILS**

[72] HECHT, GIL, IL

[71] ISCAR LTD., IL

[85] 2023-04-14

[86] 2021-09-30 (PCT/IL2021/051176)

[87] (WO2022/084985)

[30] US (17/073,617) 2020-10-19

[21] **3,195,868**
[13] A1

[51] **Int.Cl. B23B 27/04 (2006.01) B23B 27/08 (2006.01) B23B 29/04 (2006.01)**

[25] EN

[54] **PARTING-BLADE CLAMP, PARTING-BLADE AND PARTING-BLADE HOLDER**

[54] **PINCE A LAME DE SEPARATION, LAME DE SEPARATION ET SUPPORT DE LAME DE SEPARATION**

[72] ERLICH, ELY, IL

[72] HECHT, GIL, IL

[71] ISCAR LTD., IL

[85] 2023-04-14

[86] 2021-10-19 (PCT/IL2021/051236)

[87] (WO2022/084992)

[30] US (63/093,846) 2020-10-20

[21] **3,195,870**
[13] A1

[51] **Int.Cl. G01K 1/14 (2021.01) G01K 1/16 (2006.01)**

[25] EN

[54] **TEMPERATURE SENSOR OF THERMAL MONITORING SYSTEM FOR USE IN POWER DISTRIBUTION SYSTEMS**

[54] **CAPTEUR DE TEMPERATURE DE SYSTEME DE SURVEILLANCE THERMIQUE A UTILISER DANS DES SYSTEMES DE DISTRIBUTION D'ENERGIE**

[72] YANG, GUANG, US

[72] TITUS, SOLOMON R., US

[71] SIEMENS INDUSTRY, INC., US

[85] 2023-04-14

[86] 2021-10-04 (PCT/US2021/053286)

[87] (WO2022/086699)

[30] US (17/076,332) 2020-10-21

[21] **3,195,871**
[13] A1

[51] **Int.Cl. C22B 3/12 (2006.01) C22B 1/02 (2006.01)**

[25] EN

[54] **METHODS OF BASE METAL RECOVERY WITH APPLICATIONS OF OXYGEN VECTORS**

[54] **PROCEDES DE RECUPERATION DE METAL DE BASE UTILISANT DES VECTEURS D'OXYGENE**

[72] GOSTU, SUMEDH, US

[72] MAENG, MIN HO, US

[72] MURRAY, TIMOTHY L., US

[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR

[85] 2023-04-16

[86] 2021-10-15 (PCT/US2021/055276)

[87] (WO2022/082042)

[30] US (17/072,788) 2020-10-16

[21] **3,195,872**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **GLP-1 PRODRUGS AND USES HEREOF**

[54] **PROMEDICAMENTS GLP-1 ET LEURS UTILISATIONS**

[72] LAU, JESPER F., DK

[72] LYKKE, LENNART, DK

[72] PREMDJEE, BHAVESH, DK

[72] JORGENSEN, CECILIE MIA, DK

[71] NOVO-NORDISK A/S, DK

[85] 2023-04-16

[86] 2021-11-05 (PCT/EP2021/080747)

[87] (WO2022/096636)

[30] EP (20206198.2) 2020-11-06

[21] **3,195,873**
[13] A1

[51] **Int.Cl. A23L 5/43 (2016.01) A23L 13/40 (2023.01) A23J 3/22 (2006.01)**

[25] EN

[54] **PIGMENT FOR MEAT SUBSTITUTE COMPOSITIONS**

[54] **PIGMENT POUR COMPOSITIONS DE SUBSTITUTS DE VIANDE**

[72] LIPKIE, TRISTAN, US

[71] CARGILL, INCORPORATED, US

[85] 2023-04-16

[86] 2021-10-15 (PCT/US2021/055149)

[87] (WO2022/081952)

[30] US (63/092,083) 2020-10-15

PCT Applications Entering the National Phase

[21] **3,195,874**
[13] A1

[51] **Int.Cl. B62D 55/21 (2006.01)**
[25] EN
[54] **SINGLE PRESS RING GROOVE FOR A CARTRIDGE PIN ASSEMBLY**

[54] **RAINURE ANNULAIRE DE PRESSE UNIQUE POUR ENSEMBLE BROCHE DE CARTOUCHE**

[72] JONES, BENJAMIN ISAAC, US
[72] PARROTT, STAN ROBERT, US
[72] WEEKS, ALLEN J., US
[72] MEINER IV, GEORGE H., US
[72] HUDSON, SCOTT A., US
[71] CATERPILLAR INC., US
[85] 2023-04-16
[86] 2021-09-21 (PCT/US2021/051233)
[87] (WO2022/081311)
[30] US (17/072,312) 2020-10-16

[21] **3,195,875**
[13] A1

[51] **Int.Cl. G06F 16/23 (2019.01)**
[25] EN
[54] **EXTENSIBLE OBJECT MODEL AND GRAPHICAL USER INTERFACE ENABLING MODELING**

[54] **MODELE D'OBJET EXTENSIBLE ET INTERFACE UTILISATEUR GRAPHIQUE PERMETTANT LA MODELISATION**

[72] CHATTERJI, AGNIRAJ, US
[72] VALDER, ROSHAN LAWRENCE, US
[72] SAHU, DEBASHISH, US
[72] DSOUZA, AARON FRANCIS, US
[72] PATIL, SANJAYKUMAR, US
[72] MANU, TARANATH, US
[72] GROSS, KLAUS PETER, US
[72] GOPALAN, MURUGAN, US
[72] SHIVAMURTHY, VIDYA, US
[72] SABARETHINAM, MUTHU, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2023-04-16
[86] 2021-10-15 (PCT/US2021/055194)
[87] (WO2022/081982)
[30] US (63/093,121) 2020-10-16

[21] **3,195,876**
[13] A1

[51] **Int.Cl. G05B 13/02 (2006.01) G06Q 50/12 (2012.01) G05B 15/02 (2006.01) H02H 3/26 (2006.01) H02H 3/50 (2006.01) H02J 3/00 (2006.01) H02J 13/00 (2006.01)**

[25] EN
[54] **METHODS, DEVICES, AND SYSTEMS FOR DISTRIBUTED MONITORING BASED ADAPTIVE DIAGNOSIS OF POWER ANOMALIES IN A POWER NETWORK**

[54] **PROCEDES, DISPOSITIFS ET SYSTEMES PERMETTANT LE DIAGNOSTIC ADAPTATIF BASE SUR LA SURVEILLANCE DISTRIBUEE DES ANOMALIES ELECTRIQUES DANS UN RESEAU ELECTRIQUE**

[72] PATHAK, SAURABH, IN
[72] SHAIK, FIAZ, IN
[72] HAQ, SAIFUL, IN
[72] DEVALALIKAR, VAIBHAV S., IN
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2023-04-16
[86] 2021-10-13 (PCT/EP2021/025400)
[87] (WO2022/083888)
[30] US (17/074,082) 2020-10-19

[21] **3,195,877**
[13] A1

[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/30 (2006.01) B32B 27/32 (2006.01)**

[25] EN
[54] **LINERS FOR HIGH TEMPERATURE MATERIALS**

[54] **DOUBLURES POUR MATERIAUX A HAUTE TEMPERATURE**

[72] FENG, JICHANG, CN
[72] PAN, JIANPING, CN
[72] YUN, XIAOBING, CN
[72] WANG, SHIJUN, CN
[72] LYU, BO, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2023-04-16
[86] 2020-10-19 (PCT/CN2020/121942)
[87] (WO2022/082369)

[21] **3,195,878**
[13] A1

[51] **Int.Cl. A23L 29/244 (2016.01) A23L 33/115 (2016.01) A23L 33/185 (2016.01) A23L 33/21 (2016.01)**

[25] EN
[54] **CRUMBLE PIECES COMPRISING PLANT-SOURCED LIPID AND INULIN**

[54] **MORCEAUX EMIETTES COMPRENANT DE L'INULINE ET UN LIPIDE D'ORIGINE VEGETALE**

[72] ADAMS, TIMM, US
[72] METIN, SERPIL, US
[72] PURL, JOSEPH, US
[72] SULLIVAN, CONOR, US
[71] CARGILL, INCORPORATED, US
[85] 2023-04-16
[86] 2021-10-19 (PCT/US2021/055633)
[87] (WO2022/086978)
[30] US (63/093,751) 2020-10-19

[21] **3,195,879**
[13] A1

[51] **Int.Cl. A23P 20/20 (2016.01) A21C 9/06 (2006.01)**

[25] EN
[54] **AUTOMATED BURRITO MAKER**

[54] **DISPOSITIF AUTOMATISE DE FABRICATION DE BURRITOS**

[72] BIELBY, SARAH ELIZABET, GB
[72] DUNLOP, STUART JOHN, GB
[72] MACBEAN, ALASDAIR DAVID, GB
[72] WEST, GRANT, GB
[72] WOOD, PHILIP LESLIE, GB
[71] CARGILL, INCORPORATED, US
[85] 2023-04-16
[86] 2021-10-20 (PCT/US2021/055807)
[87] (WO2022/087105)
[30] US (63/094,287) 2020-10-20

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[21] **3,195,880**
[13] A1

[51] **Int.Cl. E21B 19/16 (2006.01) E21B 19/14 (2006.01)**
[25] EN
[54] **DRILLING TOOL LOADING CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE CHARGEMENT D'OUTIL DE FORAGE**
[72] SHAHID, AHSAN, US
[72] MOBERG, CARL J., US
[72] DIEKMANN, TIMO, DE
[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US
[71] CATERPILLAR GLOBAL MINING HMS GMBH, DE
[85] 2023-04-16
[86] 2021-09-21 (PCT/US2021/051209)
[87] (WO2022/086657)
[30] US (17/076,456) 2020-10-21

[21] **3,195,881**
[13] A1

[51] **Int.Cl. E21B 33/16 (2006.01) E21B 33/14 (2006.01) E21B 34/14 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **CEMENT PLUG INTERNAL ANTI-ROTATION**
[54] **ANTIROTATION INTERNE DE BOUCHON DE CIMENT**
[72] SCHULTZ, ALEXANDER, US
[72] BANDITRAT, THOMAS, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2023-04-16
[86] 2021-10-15 (PCT/US2021/071902)
[87] (WO2022/087570)
[30] US (17/077,118) 2020-10-22

[21] **3,195,882**
[13] A1

[51] **Int.Cl. F01D 21/00 (2006.01) G06T 7/70 (2017.01) G01B 11/03 (2006.01) G01B 11/14 (2006.01) G06T 7/60 (2017.01) G06T 15/20 (2011.01)**
[25] EN
[54] **AUTOMATED TURBINE BLADE TO SHROUD GAP MEASUREMENT**
[54] **MESURE AUTOMATISEE DE L'ESPACEMENT ENTRE UNE AUBE DE TURBINE ET UNE ENVELOPPE**
[72] BENDALL, CLARK A., US
[72] PANKOW, MATTHEW W., US
[71] BAKER HUGHES HOLDING LLC, US
[85] 2023-04-16
[86] 2021-10-21 (PCT/US2021/071968)
[87] (WO2022/087617)
[30] US (63/104,777) 2020-10-23
[30] US (17/501,705) 2021-10-14

[21] **3,195,883**
[13] A1

[51] **Int.Cl. F16C 11/06 (2006.01)**
[25] EN
[54] **BEARING FOR PARTIALLY SPHERICAL COMPONENT AND METHOD OF MAKING AND USING THE SAME**
[54] **PALIER POUR ELEMENT PARTIELLEMENT SPHERIQUE ET PROCEDE DE FABRICATION ET D'UTILISATION DUDIT PALIER**
[72] PARK, JUNYOUNG, KR
[72] JANG, EUNHEE, KR
[72] JUN, SEUNGCHUL, KR
[71] SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, US
[85] 2023-04-16
[86] 2021-10-21 (PCT/US2021/071960)
[87] (WO2022/087612)
[30] US (63/104,994) 2020-10-23

[21] **3,195,905**
[13] A1

[51] **Int.Cl. B60W 40/10 (2012.01) B60W 40/112 (2012.01) G05D 1/08 (2006.01) G08G 1/09 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VEHICLE HAZARDOUS CONDITION DETECTION**
[54] **SYSTEMES ET PROCEDES DE DETECTION D'ETAT DANGEREUX DE VEHICULE**
[72] LIU, CHIAO GEORGE, US
[72] NUXOLL, JOSEPH P., US
[72] GRAUS, JONATHON P., US
[71] POLARIS INDUSTRIES INC., US
[85] 2023-04-17
[86] 2021-10-20 (PCT/US2021/055803)
[87] (WO2022/087101)
[30] US (63/093,819) 2020-10-20
[30] US (63/165,920) 2021-03-25

[21] **3,195,913**
[13] A1

[51] **Int.Cl. A61L 27/36 (2006.01) A61L 27/44 (2006.01) A61L 27/54 (2006.01) A61L 27/58 (2006.01)**
[25] EN
[54] **FASCICULATED NERVE GRAFTS, METHODS OF MAKING THE SAME, AND METHODS OF TREATMENT USING THE SAME**
[54] **GREFFES NERVEUSES FASCICULEES, LEURS PROCEDES DE FABRICATION ET PROCEDES DE TRAITEMENT ASSOCIES**
[72] FALERIS, JENNIFER, US
[72] TAJDARAN, KASRA, US
[71] AXOGEN CORPORATION, US
[85] 2023-04-17
[86] 2021-10-21 (PCT/US2021/055937)
[87] (WO2022/087192)
[30] US (63/104,437) 2020-10-22
[30] US (17/451,489) 2021-10-20

PCT Applications Entering the National Phase

[21] **3,195,914**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 13/12 (2006.01) C07K 14/435 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **NKD2 AS TARGET FOR TREATING RENAL FIBROSIS**

[54] **NOUVELLE CIBLE POUR LE TRAITEMENT DE LA FIBROSE RENALE**

[72] KRAMANN, RAFAEL JOHANNES THOMAS, NL

[71] RHEINISCH-WESTFALISCHE TECHNISCHE HOCHSCHULE (RWTH) AACHEN, DE

[85] 2023-04-17

[86] 2021-10-28 (PCT/EP2021/080068)

[87] (WO2022/090434)

[30] DE (10 2020 128 677.5) 2020-10-30

[21] **3,195,924**
[13] A1

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

[25] EN

[54] **CARDIOVASCULAR EVENT RISK PREDICTION**

[54] **PREDICTION DE RISQUE D'EVENEMENT CARDIOVASCULAIRE**

[72] SAMPSON, LAURA MAE, US

[72] HINTERBERG, MICHAEL ALBERT, US

[72] JIA, YI, US

[72] OSTROFF, RACHEL MARIE, US

[72] HAGAR, YOLANDA, US

[71] SOMALOGIC OPERATING CO., INC., US

[85] 2023-04-17

[86] 2021-10-19 (PCT/US2021/055537)

[87] (WO2022/086913)

[30] US (63/093,993) 2020-10-20

[21] **3,195,926**
[13] A1

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

[25] EN

[54] **MATERIAL COMBINATIONS AND PROCESSING METHODS FOR A SURGICAL INSTRUMENT**

[54] **COMBINAISONS DE MATERIAUX ET PROCEDES DE TRAITEMENT POUR UN INSTRUMENT CHIRURGICAL**

[72] KRASTS, ANDREW, US

[72] DARNALL, DARCI, US

[72] WEISS, ERIC J., US

[72] HOPKINS, TIMOTHY M., US

[71] APPLIED MEDICAL RESOURCES CORPORATION, US

[85] 2023-04-17

[86] 2021-10-29 (PCT/US2021/057231)

[87] (WO2022/094199)

[30] US (63/107,321) 2020-10-29

[21] **3,195,923**
[13] A1

[51] **Int.Cl. B22C 1/02 (2006.01) B22C 1/08 (2006.01) B22C 1/18 (2006.01) B22C 1/22 (2006.01) B22C 1/26 (2006.01) B22C 9/12 (2006.01)**

[25] EN

[54] **COMPOSITION, CORE AND MOULD FOR CASTING AND MOULDING PROCESSES**

[54] **COMPOSITION, NOYAU ET MOULE POUR PROCEDES DE COULEE ET DE MOULAGE**

[72] HAANAPPEL, VINCENT, NL

[72] LINKE, THOMAS, NL

[71] FOSECO INTERNATIONAL LIMITED, GB

[85] 2023-04-17

[86] 2021-10-25 (PCT/EP2021/079512)

[87] (WO2022/084555)

[30] EP (PCT/EP2020/079890) 2020-10-23

[21] **3,195,925**
[13] A1

[51] **Int.Cl. A61K 31/42 (2006.01) C12N 5/07 (2010.01) A61P 3/08 (2006.01) C07K 14/605 (2006.01)**

[25] EN

[54] **MODULATION OF GLUCAGON-LIKE PEPTIDE 1 AND USES THEREOF**

[54] **MODULATION DU PEPTIDE TYPE GLUCAGON 1 ET SES UTILISATIONS**

[72] DUNCAN, ROBIN ELAINE, CA

[71] DUNCAN, ROBIN ELAINE, CA

[85] 2023-04-17

[86] 2021-10-29 (PCT/CA2021/051536)

[87] (WO2022/087749)

[30] US (63/108,184) 2020-10-30

[21] **3,195,928**
[13] A1

[51] **Int.Cl. G06V 40/19 (2022.01) G06V 10/143 (2022.01) G06V 10/44 (2022.01) G06V 10/74 (2022.01) G06V 10/764 (2022.01) G06V 40/18 (2022.01)**

[25] EN

[54] **BIOMETRIC OCULAR MEASUREMENTS USING DEEP LEARNING**

[54] **MESURES OCULAIRES BIOMETRIQUES A L'AIDE D'UN APPRENTISSAGE PROFOND**

[72] ANGELOPOULOS, ROBERT DIMITRI, US

[72] STANFILL, BRYAN, US

[71] ALCON INC., CH

[85] 2023-04-17

[86] 2021-10-14 (PCT/IB2021/059472)

[87] (WO2022/101710)

[30] US (63/113,860) 2020-11-14

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[21] **3,195,929**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01) A61P 1/14 (2006.01) C12N 9/50 (2006.01) C12N 9/52 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING CELIAC SPRUE DISEASE**

[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE LA MALADIE C?LIAQUE**

[72] PULTZ, INGRID SWANSON, US

[72] WOLF, CLANCEY, US

[72] SIEGEL, JUSTIN BLOOMFIELD, US

[72] TINBERG, CHRISTINE ELAINE, US

[72] STEWART, LANCE, US

[72] BAKER, DAVID, US

[71] UNIVERSITY OF WASHINGTON, US

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

[85] 2023-04-17

[86] 2021-10-29 (PCT/US2021/057197)

[87] (WO2022/094177)

[30] US (63/108,163) 2020-10-30

[21] **3,195,931**
[13] A1

[51] **Int.Cl. E21B 19/14 (2006.01) E21B 19/18 (2006.01) E21B 19/20 (2006.01)**

[25] EN

[54] **DRILL BIT CHANGE IN FACE DRILL RIG**

[54] **CHANGEMENT DE TREPAN DANS UN APPAREIL DE FORAGE DE FACE**

[72] STALNACKE, GUNNAR, SE

[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE

[85] 2023-04-17

[86] 2021-12-17 (PCT/SE2021/051282)

[87] (WO2022/139663)

[30] SE (2051561-5) 2020-12-23

[21] **3,195,932**
[13] A1

[51] **Int.Cl. A63F 1/06 (2006.01)**

[25] EN

[54] **CASINO SYSTEM**

[54] **SYSTEME DE CASINO**

[72] SHIGETA, YASUSHI, JP

[71] ANGEL GROUP CO., LTD., JP

[85] 2023-04-17

[86] 2021-10-20 (PCT/JP2021/038693)

[87] (WO2022/085705)

[30] JP (2020-176900) 2020-10-21

[21] **3,195,933**
[13] A1

[51] **Int.Cl. B32B 17/06 (2006.01) C03C 17/34 (2006.01) C03C 17/36 (2006.01) C23C 14/08 (2006.01) G02B 1/11 (2015.01)**

[25] EN

[54] **REFLECTIVE SOLAR CONTROL COATINGS, AND ARTICLES COATED THEREOF**

[54] **REVETEMENTS REFLECHISSANTS DE REGULATION SOLAIRE ET ARTICLES REVETUS DE CEUX-CI**

[72] FISHER, PATRICK, US

[72] WAGNER, ANDREW V., US

[72] MEDWICK, PAUL A., US

[72] POLCYN, ADAM D., US

[71] VITRO FLAT GLASS LLC, US

[85] 2023-04-17

[86] 2021-10-21 (PCT/US2021/055945)

[87] (WO2022/087198)

[30] US (63/094,510) 2020-10-21

[30] US (17/506,184) 2021-10-20

[21] **3,195,935**
[13] A1

[25] EN

[54] **SAMPLE COLLECTION APPARATUS**

[54] **APPAREIL DE COLLECTE D'ECHANTILLONS**

[72] HARDER, CHRISTOPHER, CA

[72] RENNIE, ROB J., CA

[72] PYKE, ADAM, CA

[72] BRERETON, CALVIN JAMES, CA

[71] KENOTA INC., CA

[85] 2023-04-17

[86] 2021-11-15 (PCT/CA2021/051498)

[87] (3195935)

[30] US (63/105,415) 2020-10-26

[21] **3,195,937**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 47/14 (2017.01) A61K 47/44 (2017.01)**

[25] EN

[54] **ORAL CANNABINOID FORMULATION COMPRISING TOCOPHERYL PHOSPHATES AND LONG CHAIN TRIGLYCERIDES OR LONG CHAIN FATTY ACIDS**

[54] **FORMULATION ORALE A BASE DE CANNABINOIDES COMPRENANT DES PHOSPHATES DE TOCOPHEREYLE ET DES TRIGLYCERIDES A LONGUE CHAINE OU DES ACIDES GRAS A LONGUE CHAINE**

[72] GAVIN, PAUL, AU

[71] AVECHO BIOTECHNOLOGY LIMITED, AU

[85] 2023-04-17

[86] 2021-10-18 (PCT/AU2021/051211)

[87] (WO2022/082256)

[30] AU (2020903780) 2020-10-19

[21] **3,195,938**
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 47/14 (2017.01)**

[25] EN

[54] **ORAL CANNABINOID FORMULATION COMPRISING MEDIUM CHAIN TRIGLYCERIDES AND TOCOPHERYL PHOSPHATES**

[54] **FORMULATION A BASE DE CANNABINOIDES ORALE COMPRENANT DES TRIGLYCERIDES A CHAINE MOYENNE ET DES PHOSPHATES DE TOCOPHEREYLE**

[72] GAVIN, PAUL, AU

[71] AVECHO BIOTECHNOLOGY LIMITED, AU

[85] 2023-04-17

[86] 2021-10-18 (PCT/AU2021/051212)

[87] (WO2022/082257)

[30] AU (2020903781) 2020-10-19

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[21] **3,195,939**
[13] A1

[51] **Int.Cl. F16B 2/04 (2006.01) F16B 13/10 (2006.01)**
[25] EN
[54] **INTERNAL CONNECTOR SYSTEM FOR STRUCTURAL MEMBERS**
[54] **SYSTEME DE LIAISON INTERNE POUR ELEMENTS DE STRUCTURE**
[72] HILL, IAN A., US
[71] FORTRESS IRON, LP, US
[85] 2023-04-17
[86] 2021-10-15 (PCT/US2021/055139)
[87] (WO2022/086805)
[30] US (17/075,263) 2020-10-20

[21] **3,195,940**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 10/00 (2006.01) A61F 13/02 (2006.01) A61K 49/00 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEM, METHOD, AND APPARATUS TO PERFORM AN ALLERGEN DIAGNOSTIC**
[54] **SYSTEME, PROCEDE ET APPAREIL POUR EFFECTUER UN DIAGNOSTIC D'ALLERGENES**
[72] MEHROTRA, ANJULI KUMAR, US
[72] WONG, YUN-LING, US
[71] EYME INC., US
[85] 2023-04-17
[86] 2021-11-18 (PCT/US2021/059924)
[87] (WO2022/109158)
[30] US (63/115,417) 2020-11-18

[21] **3,195,941**
[13] A1

[51] **Int.Cl. C07H 13/04 (2006.01) A61K 45/06 (2006.01) C07H 15/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING ISCHEMIC CONDITIONS**
[54] **COMPOSITIONS ET PROCEDES DE TRAITEMENT D'ETATS ISCHEMIQUES**
[72] FERRARA, NAPOLEONE, US
[72] ZHONG, CUILING, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2023-04-17
[86] 2021-10-20 (PCT/US2021/055809)
[87] (WO2022/087107)
[30] US (63/094,032) 2020-10-20

[21] **3,195,942**
[13] A1

[51] **Int.Cl. B60N 2/24 (2006.01) B60N 2/75 (2018.01)**
[25] EN
[54] **FRONT SEAT QUICK RELEASE ARMREST**
[54] **ACCOUDOIR A LIBERATION RAPIDE DE SIEGE AVANT**
[72] BECK, JONATHAN PAUL, US
[72] BETTCHER, ROBERT EARL III., US
[72] ZINDLER, MICHAEL TODD, US
[71] THE BRAUN CORPORATION, US
[85] 2023-04-17
[86] 2021-12-07 (PCT/US2021/062176)
[87] (WO2022/125530)
[30] US (63/122,577) 2020-12-08

[21] **3,195,943**
[13] A1

[51] **Int.Cl. A61F 13/00 (2006.01) A61F 13/02 (2006.01) A61K 9/70 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **A DERMATOLOGIC TREATMENT APPARATUS**
[54] **APPAREIL DE TRAITEMENT DERMATOLOGIQUE**
[72] HERBERT, KEVIN, GB
[71] IP - SMART LTD, GB
[85] 2023-04-17
[86] 2021-10-15 (PCT/GB2021/052683)
[87] (WO2022/079449)
[30] GB (2016376.2) 2020-10-15
[30] GB (2109763.9) 2021-07-06

[21] **3,195,944**
[13] A1

[51] **Int.Cl. E04B 1/24 (2006.01) E04C 3/30 (2006.01) E04C 3/32 (2006.01) E04C 3/34 (2006.01) E04C 3/36 (2006.01)**
[25] EN
[54] **STRUCTURAL POST WITH INTERNAL CONNECTOR SYSTEM**
[54] **MONTANT STRUCTUREL DOTE D'UN SYSTEME DE CONNECTEUR INTERNE**
[72] HILL, IAN A., US
[71] FORTRESS IRON, LP, US
[85] 2023-04-17
[86] 2021-10-15 (PCT/US2021/055144)
[87] (WO2022/086806)
[30] US (17/075,276) 2020-10-20

[21] **3,195,945**
[13] A1

[51] **Int.Cl. B60C 1/00 (2006.01) C08J 11/10 (2006.01) C08K 5/01 (2006.01) C08L 57/02 (2006.01)**
[25] FR
[54] **METHOD FOR PRODUCING RESINS FROM RUBBER CHIPS**
[54] **PROCEDE DE PRODUCTION DE RESINES A PARTIR DE COPEAUX DE CAOUTCHOUC**
[72] SUTTER, MARC, FR
[72] BORGES, PEDRO, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2023-04-17
[86] 2021-10-15 (PCT/FR2021/051794)
[87] (WO2022/101562)
[30] FR (FR2011696) 2020-11-16

[21] **3,195,946**
[13] A1

[51] **Int.Cl. B32B 21/04 (2006.01) B32B 21/14 (2006.01) E04F 15/02 (2006.01) E04F 15/04 (2006.01)**
[25] EN
[54] **FLOOR PANEL AND METHODS FOR MANUFACTURING FLOOR PANELS**
[54] **PANNEAU DE PLANCHER ET PROCEDE DE FABRICATION DE PANNEAUX DE PLANCHER**
[72] SHAW, AARON, US
[71] ALADDIN MANUFACTURING CORPORATION, US
[85] 2023-04-17
[86] 2021-11-23 (PCT/US2021/060586)
[87] (WO2022/115462)
[30] US (63/117,802) 2020-11-24

[21] **3,195,947**
[13] A1

[51] **Int.Cl. A01K 61/95 (2017.01) G06T 7/285 (2017.01) G06T 7/62 (2017.01) G06T 7/00 (2017.01)**
[25] EN
[54] **IMAGE PROCESSING-BASED WEIGHT ESTIMATION FOR AQUACULTURE**
[54] **ESTIMATION DE POIDS BASEE SUR LE TRAITEMENT D'IMAGE POUR L'AQUACULTURE**
[72] JAMES, BARNABY JOHN, US
[71] X DEVELOPMENT LLC, US
[85] 2023-04-17
[86] 2021-10-29 (PCT/US2021/057359)
[87] (WO2022/103604)
[30] US (17/094,275) 2020-11-10

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[21] **3,195,948**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) G06Q 10/00 (2023.01)**
[25] EN
[54] **MACHINE LEARNING FOR VEHICLE ALLOCATION**
[54] **APPRENTISSAGE AUTOMATIQUE POUR ATTRIBUTION DE VEHICULES**
[72] HAQUE, MASHHUR ZARIF, US
[72] BARTON, KYRI ELYSE, US
[72] BURKE, KEVIN MICHAEL, US
[71] DRIVERDO LLC, US
[85] 2023-04-17
[86] 2021-10-22 (PCT/US2021/056308)
[87] (WO2022/087455)
[30] US (63/104,582) 2020-10-23

[21] **3,195,949**
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **CO-LOCATED SATELLITES WITH GROUND BASED PROCESSING**
[54] **SATELLITES CO-LOCALISES A TRAITEMENT BASE AU SOL**
[72] VANDERMEULEN, RICHARD A., US
[72] MILLER, CRAIG, US
[72] HANCHARIK, DAVID J., US
[72] ROBINSON, PARKER A., US
[71] VIASAT INC., US
[85] 2023-04-17
[86] 2021-10-22 (PCT/US2021/056299)
[87] (WO2022/087450)
[30] US (63/104,142) 2020-10-22

[21] **3,195,950**
[13] A1

[51] **Int.Cl. A61K 31/4035 (2006.01) A61K 31/4525 (2006.01) C07D 401/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR TARGETED PROTEIN DEGRADATION OF KINASES**
[54] **COMPOSES POUR LA DEGRADATION CIBLEE DE PROTEINES DE KINASES**
[72] SIM, TAEBO, KR
[72] BHUNIA, DEBABRATA, IN
[72] RYU, SEONGSHICK, KR
[72] GRAY, NATHANAE S., US
[72] FISCHER, ERIC S., US
[72] FERGUSON, FLEUR M., US
[72] DONOVAN, KATHERINE, US
[72] BUSHMAN, JONATHAN W., US
[71] DANAFARBER CANCER INSTITUTE, INC., US

[71] KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY (KIST), KR
[71] SIM, TAEBO, KR
[71] BHUNIA, DEBABRATA, IN
[71] RYU, SEONGSHICK, KR
[85] 2023-04-17
[86] 2021-10-26 (PCT/US2021/056545)
[87] (WO2022/093742)
[30] US (63/105,728) 2020-10-26

[21] **3,195,952**
[13] A1

[51] **Int.Cl. A23K 20/142 (2016.01) A23K 20/158 (2016.01) A23K 50/42 (2016.01)**
[25] EN
[54] **PET FOOD COMPOSITIONS**
[54] **COMPOSITIONS ALIMENTAIRES POUR ANIMAUX DE COMPAGNIE**
[72] JEWELL, DENNIS, US
[72] MORGAN, LAURA, US
[72] JACKSON, MATTHEW, US
[71] HILL'S PET NUTRITION, INC., US
[85] 2023-04-17
[86] 2021-10-21 (PCT/US2021/055951)
[87] (WO2022/087203)
[30] US (63/094,605) 2020-10-21

[21] **3,195,954**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01)**
[25] EN
[54] **CUSTOMIZABLE PANEL FOR AEROSOL DELIVERY DEVICE**
[54] **PANNEAU PERSONNALISABLE POUR DISPOSITIF DE DISTRIBUTION D'AEROSOL**
[72] ALLER, JARED, US
[72] WEBB, BILL, US
[72] HARSACKY, CHRIS, US
[71] RAI STRATEGIC HOLDINGS INC, US
[85] 2023-04-17
[86] 2021-10-18 (PCT/IB2021/059582)
[87] (WO2022/084832)
[30] US (17/073,930) 2020-10-19

[21] **3,195,960**
[13] A1

[51] **Int.Cl. C07D 237/16 (2006.01) A61P 1/16 (2006.01) A61P 1/18 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01) A61P 5/14 (2006.01) A61P 9/10 (2006.01) C07D 237/32 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF 6-(4-NITRO-PHENOXY)-2H-PYRIDAZIN-3-ONE AND 6-(4-AMINO-PHENOXY)-2H-PYRIDAZIN-3-ONE DERIVATIVES AS INTERMEDIATES OF THYROID HORMONE ANALOGUES**
[54] **PROCEDE DE PREPARATION DE DERIVES DE 6-(4-NITRO-PHENOXY)-2H-PYRIDAZIN-3-ONE ET DE 6-(4-AMINO-PHENOXY)-2H-PYRIDAZIN-3-ONE EN TANT QU'INTERMEDIAIRES D'ANALOGUES DES HORMONES THYROIDIENNE**
[72] CONFALONE, PASQUALE N., US
[72] VELLEKOOP, A. SAMUEL, US
[71] MADRIGAL PHARMACEUTICALS, INC., US
[85] 2023-04-17
[86] 2021-10-20 (PCT/US2021/055865)
[87] (WO2022/087141)
[30] US (63/104,898) 2020-10-23
[30] US (63/150,616) 2021-02-18

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[21] 3,195,963 [13] A1	[21] 3,195,966 [13] A1	[21] 3,195,969 [13] A1
[51] Int.Cl. A61K 39/12 (2006.01) A61K 39/155 (2006.01) A61K 39/385 (2006.01) [25] EN [54] VIRUS-INSPIRED COMPOSITIONS AND METHODS OF REDIRECTING PREEXISTING IMMUNE RESPONSES USING THE SAME FOR TREATMENT OF CANCER [54] COMPOSITIONS INSPIREES DE VIRUS ET METHODES DE REDIRECTION DE REPONSES IMMUNITAIRES PREEXISTANTES A L'AIDE DE CES DERNIERES DE TRAITEMENT DU CANCER [72] WANG, JOSHUA WEIYUAN, US [72] MATSUI, KEN, US [72] STORM, PHILIP, US [72] PETER, KRISTIN MARIE, US [71] VERIMMUNE INC., US [85] 2023-04-17 [86] 2021-10-19 (PCT/US2021/055676) [87] (WO2022/087013) [30] US (63/093,525) 2020-10-19 [30] US (63/220,485) 2021-07-10	[51] Int.Cl. A63B 5/11 (2006.01) [25] EN [54] SUSPENSION ARRANGEMENT FOR A TRAINING DEVICE [54] AGENCEMENT DE SUSPENSION POUR DISPOSITIF D'ENTRAINEMENT [72] MUMENTHALTER, FELIX, CH [71] SENSOPRO AG, CH [85] 2023-04-17 [86] 2021-10-05 (PCT/EP2021/077397) [87] (WO2022/089888) [30] EP (20204824.5) 2020-10-30	[51] Int.Cl. C12Q 1/04 (2006.01) C12Q 1/70 (2006.01) G01N 33/557 (2006.01) [25] EN [54] SAMPLE COLLECTION APPARATUS AND METHODS FOR IMMUNOASSAY TESTING [54] APPAREIL DE COLLECTE D'ECHANTILLONS ET METHODES DE TEST D'IMMUNOESSAI [72] LEDDEN, DAVID, US [72] MAYFIELD, JEFFREY, US [72] HUFF, HOLLIE, US [71] SIEMENS HEALTHCARE DIAGNOSTICS INC, US [85] 2023-04-17 [86] 2021-10-19 (PCT/US2021/055602) [87] (WO2022/086955) [30] US (63/104,640) 2020-10-23
[21] 3,195,965 [13] A1	[21] 3,195,967 [13] A1	[21] 3,195,970 [13] A1
[51] Int.Cl. E04B 2/74 (2006.01) E04B 2/76 (2006.01) E04B 2/78 (2006.01) E04B 2/82 (2006.01) F16B 2/12 (2006.01) F16F 1/18 (2006.01) F16B 2/24 (2006.01) F16B 5/04 (2006.01) F16B 19/14 (2006.01) F16B 21/07 (2006.01) F16B 21/08 (2006.01) [25] EN [54] SNAP CONNECTORS FOR WALL FRAMING [54] RACCORDS A ENCLIQUETAGE POUR ARMATURE MURALE [72] SOBEL, KENNETH, US [72] TAYLOR, DAVID, US [71] HYPERFRAME INC., US [85] 2023-04-17 [86] 2021-10-21 (PCT/US2021/056120) [87] (WO2022/087319) [30] US (63/094,868) 2020-10-21	[51] Int.Cl. A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61P 27/02 (2006.01) C07K 16/24 (2006.01) [25] EN [54] VECTORIZED ANTI-TNF-? ANTIBODIES FOR OCULAR INDICATIONS [54] ANTICORPS ANTI-TNF-? VECTORISES POUR INDICATIONS OCULAIRES [72] WANG, XU, US [72] MCDUGALD, DEVIN, US [72] BRUDER, JOSEPH, US [72] LIU, YE, US [72] DANOS, OLIVIER, US [72] LEE, WEI-HUA, US [72] QIAO, CHUNPING, US [72] BUDZYNSKI, EWA, US [72] HIGGINS, MIKAYLA, US [72] SHI, MI, US [71] REGENXBIO INC., US [85] 2023-04-17 [86] 2021-10-28 (PCT/US2021/057084) [87] (WO2022/094106) [30] US (63/106,832) 2020-10-28	[51] Int.Cl. A01D 46/02 (2006.01) B26D 1/12 (2006.01) B26D 1/14 (2006.01) B26D 1/143 (2006.01) B26D 1/153 (2006.01) B26D 1/20 (2006.01) B26D 1/24 (2006.01) [25] EN [54] PLANT TRIMMING APPARATUS AND METHODS [54] APPAREIL ET PROCEDES DE TAILLAGE DE PLANTES [72] WIRTH, BRYAN, US [71] KOALA TRIMMERS, INC., US [85] 2023-04-17 [86] 2021-10-20 (PCT/US2021/055921) [87] (WO2022/087184) [30] US (63/094,040) 2020-10-20

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[21] **3,195,972**
[13] A1

[51] **Int.Cl. A61L 27/18 (2006.01) A61L 27/34 (2006.01) A61L 27/38 (2006.01) A61L 27/52 (2006.01) A61L 27/54 (2006.01)**

[25] EN

[54] **OSTEON TEMPLATES FOR BONE TISSUE ENGINEERING**

[54] **MODELES D'OSTEON POUR INGENIERIE TISSULAIRE OSSEUSE**

[72] ELSEBAHY, AHMAD RASHAD SAAD MOHAMED, NO

[72] MUSTAFA, KAMAL BABIKEIR ELN, NO

[71] VESTLANDETS INNOVASJONSSKAP AS, NO

[85] 2023-04-17

[86] 2021-10-18 (PCT/EP2021/078856)

[87] (WO2022/079323)

[30] GB (2016465.3) 2020-10-16

[21] **3,195,973**
[13] A1

[51] **Int.Cl. E21B 21/10 (2006.01)**

[25] EN

[54] **FLOAT VALVE INSERT**

[54] **INSERT DE ROBINET A FLOTTEUR**

[72] GIROUX, RICHARD L, US

[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[85] 2023-04-17

[86] 2021-10-09 (PCT/US2021/054322)

[87] (WO2022/108685)

[30] US (16/951,562) 2020-11-18

[21] **3,195,974**
[13] A1

[51] **Int.Cl. C25F 1/06 (2006.01)**

[25] EN

[54] **FERRITIC STAINLESS STEEL AND COMPONENT FOR EXHAUST GAS**

[54] **ACIER INOXYDABLE A BASE DE FERRITE ET COMPOSANT POUR GAZ D'ECHAPPEMENT**

[72] FUJIMURA, YOSHITOMO, JP

[72] HAMADA, TAKAHITO, JP

[71] NIPPON STEEL STAINLESS STEEL CORPORATION, JP

[85] 2023-04-17

[86] 2021-10-22 (PCT/JP2021/039115)

[87] (WO2022/085788)

[30] JP (2020-178302) 2020-10-23

[21] **3,195,975**
[13] A1

[51] **Int.Cl. B24D 3/06 (2006.01) B24D 18/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A GRINDING TOOL, AND GRINDING TOOL**

[54] **PROCEDE DE FABRICATION D'UN OUTIL DE BROYAGE ET OUTIL DE BROYAGE**

[72] SCHMITT, FABIAN, DE

[71] AUGUST RUGGEBERG GMBH & CO. KG, DE

[85] 2023-04-17

[86] 2020-11-23 (PCT/EP2020/083079)

[87] (WO2022/106040)

[21] **3,195,976**
[13] A1

[51] **Int.Cl. H01F 27/245 (2006.01) H01F 41/02 (2006.01)**

[25] EN

[54] **WOUND CORE, METHOD OF PRODUCING WOUND CORE AND WOUND CORE PRODUCTION DEVICE**

[54] **NOYAU DE FER ENROULE, PROCEDE DE FABRICATION DE NOYAU DE FER ENROULE ET DISPOSITIF DE FABRICATION DE NOYAU DE FER ENROULE**

[72] MIZUMURA, TAKAHITO, JP

[72] MOGI, HISASHI, JP

[72] MIZOKAMI, MASATO, JP

[72] TAKAHASHI, MASARU, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2023-04-17

[86] 2021-10-26 (PCT/JP2021/039557)

[87] (WO2022/092119)

[30] JP (2020-178562) 2020-10-26

[21] **3,195,977**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61P 19/00 (2006.01)**

[25] EN

[54] **MICRORNA-29 COMPOUNDS, COMPOSITIONS AND USES IN THERAPY**

[54] **COMPOSES DE MICROARN-29, COMPOSITIONS ET UTILISATIONS THERAPEUTIQUES**

[72] GILCHRIST, DEREK STEWART, GB

[72] MILLAR, NEAL LINDSAY, GB

[71] CAUSEWAY THERAPEUTICS LIMITED, GB

[85] 2023-04-17

[86] 2021-10-25 (PCT/EP2021/079580)

[87] (WO2022/084561)

[30] GB (2016863.9) 2020-10-23

[21] **3,195,978**
[13] A1

[51] **Int.Cl. C12N 7/00 (2006.01) C12N 9/22 (2006.01)**

[25] EN

[54] **UNIVERSAL BACTERIOPHAGE T4 NANOPARTICLE PLATFORM TO DESIGN MULTIPLEX SARS-COV-2 VACCINE CANDIDATES BY CRISPR ENGINEERING**

[54] **PLATE-FORME UNIVERSELLE DE NANOPARTICULES DE BACTERIOPHAGES T4 POUR CONCEVOIR DES CANDIDATS-VACCINS MULTIPLEX CONTRE LE SARS-COV-2 PAR INGENIERIE CRISPR**

[72] RAO, VENIGALLA B., US

[72] ZHU, JINGEN, US

[71] THE CATHOLIC UNIVERSITY OF AMERICAN, US

[85] 2023-04-17

[86] 2021-12-14 (PCT/IB2021/061688)

[87] (WO2022/130196)

[30] US (63/126,047) 2020-12-16

[30] US (17/548,629) 2021-12-13

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[21] **3,195,979**
[13] A1

[51] **Int.Cl. G01N 27/62 (2021.01) G01N 33/68 (2006.01)**
[25] EN
[54] **NOVEL PHOTOCLEAVABLE MASS-TAGS FOR MULTIPLEXED MASS SPECTROMETRIC IMAGING OF TISSUES USING BIOMOLECULAR PROBES**
[54] **NOUVEAUX MARQUEURS DE MASSE PHOTOCLEAVABLES POUR IMAGERIE PAR SPECTROMETRIE DE MASSE MULTIPLEXEE DE TISSUS A L'AIDE DE SONDES BIOMOLECULAIRES**
[72] LIM, MARL J., US
[72] YAGNIK, GARGEY, US
[72] ROTHSCILD, KENNETH J., US
[71] AMBERGEN, INC., US
[85] 2023-04-17
[86] 2021-08-11 (PCT/US2021/045520)
[87] (WO2022/093357)
[30] US (63/106,990) 2020-10-29

[21] **3,195,980**
[13] A1

[51] **Int.Cl. A61N 1/18 (2006.01) A61N 1/36 (2006.01) A61N 1/378 (2006.01) H03K 4/92 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR PHASE-AGNOSTIC STIMULI**
[54] **APPAREIL ET PROCEDES POUR STIMULI INDEPENDANTS DE LA PHASE**
[72] PAYDARFAR, DAVID, US
[72] CHANG, JOSHUA, US
[72] SANTOS, SARA A., US
[72] SRIDHAR, VARUN K., US
[71] RESEARCH DEVELOPMENT FOUNDATION, US
[85] 2023-04-17
[86] 2021-10-20 (PCT/US2021/055725)
[87] (WO2022/087050)
[30] US (63/104,998) 2020-10-23
[30] US (63/114,636) 2020-11-17

[21] **3,195,981**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**
[25] EN
[54] **WOUND CORE**
[54] **NOYAU ENROULE**
[72] KAWAMURA, YUSUKE, JP
[72] MIZUMURA, TAKAHITO, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-17
[86] 2021-10-26 (PCT/JP2021/039518)
[87] (WO2022/092095)
[30] JP (2020-178891) 2020-10-26

[21] **3,195,982**
[13] A1

[51] **Int.Cl. C12P 19/34 (2006.01) C40B 40/06 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR RNA SYNTHESIS**
[54] **COMPOSITIONS ET PROCEDES DE SYNTHESE D'ARN**
[72] CHUNG, LAI HIM, CA
[72] HUSSEY, BRENDAN, CA
[71] SPINDLE BIOTECH INC., CA
[85] 2023-04-17
[86] 2022-02-01 (PCT/IB2021/000727)
[87] (3195982)
[30] US (63/104,735) 2020-10-23

[21] **3,195,983**
[13] A1

[51] **Int.Cl. G06Q 40/00 (2023.01)**
[25] EN
[54] **OPTIMIZATION AND PRIORITIZATION OF ACCOUNT DIRECTED DISTRIBUTIONS IN AN ASSET MANAGEMENT SYSTEM**
[54] **OPTIMISATION ET CLASSEMENT PAR ORDRE DE PRIORITE DE DISTRIBUTIONS ORIENTEES SUR LE COMPTE DANS UN SYSTEME DE GESTION D'ACTIFS**
[72] MARSHALL, WILLIAM PATRICK, US
[72] GOEBEL, CHRISTOPHER ERIC, US
[72] CANGIANI, NICHOLAS FRANK, US
[71] NISA INVESTMENT ADVISORS, LLC, US
[85] 2023-04-17
[86] 2021-10-19 (PCT/US2021/055559)
[87] (WO2022/086928)
[30] US (63/093,586) 2020-10-19

[21] **3,195,984**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 29/80 (2006.01) C07C 29/88 (2006.01) C07C 31/20 (2006.01) C07C 41/05 (2006.01) C07C 41/42 (2006.01) C07C 41/44 (2006.01) C07C 43/11 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL, DIPROPYLENE GLYCOL AND TRIPROPYLENE GLYCOL**
[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL, DIPROPYLENE GLYCOL ET DE TRIPROPYLENE GLYCOL**
[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[72] GLENNEBERG, JURGEN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-17
[86] 2021-10-07 (PCT/EP2021/077764)
[87] (WO2022/084062)
[30] EP (20203049.0) 2020-10-21

[21] **3,195,985**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **A METHOD FOR INCREASING PROPYLENE OXIDE OUTPUT OF AN INTEGRATED PROCESS FOR MAKING PROPYLENE OXIDE AND PROPYLENE GLYCOL**
[54] **PROCEDE POUR AUGMENTER LE RENDEMENT EN OXYDE DE PROPYLENE D'UN PROCESSUS INTEGRE DE PREPARATION D'OXYDE DE PROPYLENE ET DE PROPYLENE GLYCOL**
[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[72] JAEGER, BERND, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-17
[86] 2021-10-07 (PCT/EP2021/077754)
[87] (WO2022/084060)
[30] EP (20202983.1) 2020-10-21

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[21] **3,195,986**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL**
[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL**
[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[72] GLATZ, PATRIK, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-17
[86] 2021-10-07 (PCT/EP2021/077662)
[87] (WO2022/084049)
[30] EP (20203029.2) 2020-10-21

[21] **3,195,987**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**
[25] EN
[54] **WOUND CORE**
[54] **NOYAU ENROULE**
[72] NAKAMURA, SHUICHI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2023-04-17
[86] 2021-10-26 (PCT/JP2021/039555)
[87] (WO2022/092118)
[30] JP (2020-178553) 2020-10-26

[21] **3,195,988**
[13] A1

[51] **Int.Cl. A01N 47/48 (2006.01) A01N 37/40 (2006.01) A01N 39/04 (2006.01) A01N 47/36 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS COMPRISING HERBICIDALLY ACTIVE COMPOUNDS AND THIOCYANATE COMPOUNDS FOR CONTROLLING WEED GROWTH**
[54] **PROCEDES ET COMPOSITIONS COMPRENANT DES COMPOSES A ACTION HERBICIDE ET COMPOSES THIOCYANATES POUR REGULER LA CROISSANCE DES ADVENTICES**
[72] BLETSKY, COLIN, CA
[72] LAHTI, TODD, CA
[72] GIASSON, COREY, CA
[72] MAENZ, DAVID, CA
[71] MUSTGROW BIOLOGICS CORP., CA
[85] 2023-04-17
[86] 2021-10-21 (PCT/CA2021/051483)
[87] (WO2022/082311)
[30] US (63/094,517) 2020-10-21
[30] US (63/094,540) 2020-10-21

[21] **3,195,989**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61L 2/00 (2006.01) A61M 1/02 (2006.01) A61M 1/36 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **MODULAR LIGHT DEVICE FOR A BIOLOGICAL FLUID TREATMENT SYSTEM**
[54] **DISPOSITIF LUMINEUX MODULAIRE POUR SYSTEME DE TRAITEMENT DE FLUIDE BIOLOGIQUE**
[72] CHURCH, DANIEL, US
[72] ISON, LLOYD, US
[71] CERUS CORPORATION, US
[85] 2023-04-17
[86] 2021-10-18 (PCT/US2021/071920)
[87] (WO2022/087580)
[30] US (63/093,722) 2020-10-19

[21] **3,195,990**
[13] A1

[51] **Int.Cl. B01L 9/00 (2006.01) B01L 3/00 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM, AND METHODS FOR HANDLING LABWARE**
[54] **APPAREIL, SYSTEME ET PROCEDES POUR LA MANIPULATION DE MATERIEL DE LABORATOIRE**
[72] EVERS-STAPLES, BEN, CA
[72] SLOBODAN, JARED, CA
[71] YOURGENE HEALTH CANADA INC., CA
[85] 2023-04-17
[86] 2021-10-19 (PCT/IB2021/000714)
[87] (WO2022/084743)
[30] US (63/093,328) 2020-10-19

[21] **3,195,991**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 39/39 (2006.01) A61K 47/24 (2006.01) A61P 11/00 (2006.01) A61P 31/06 (2006.01)**
[25] EN
[54] **LUNG TREATMENT COMPOSITIONS**
[54] **COMPOSITIONS DE TRAITEMENT PULMONAIRE**
[72] GOLDIN, EHUD, US
[72] LEHRMAN, SHERWOOD RUSS, US
[71] BIOSUPERIOR TECHNOLOGY, INC., US
[85] 2023-04-17
[86] 2021-10-17 (PCT/US2021/055333)
[87] (WO2022/082082)
[30] US (63/092,625) 2020-10-16

[21] **3,195,992**
[13] A1

[51] **Int.Cl. A61C 15/04 (2006.01) D01D 5/247 (2006.01) D01D 5/42 (2006.01) D01F 6/04 (2006.01)**
[25] EN
[54] **MICROPOROUS POLYETHYLENE FILAMENTS**
[54] **FILAMENTS DE POLYETHYLENE MICROPOREUX**
[72] MINOR, RAYMOND B., US
[71] W. L. GORE & ASSOCIATES, INC., US
[85] 2023-04-17
[86] 2021-11-10 (PCT/US2021/058697)
[87] (WO2022/103783)
[30] US (63/112,956) 2020-11-12

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[21] **3,195,993**
[13] A1

[51] **Int.Cl. B60C 1/00 (2006.01) C08J 11/10 (2006.01) C08K 5/01 (2006.01) C08L 57/02 (2006.01)**

[25] FR

[54] **METHOD FOR PRODUCING RESINS FROM RUBBER CHIPS**

[54] **PROCEDE DE PRODUCTION DE RESINES A PARTIR DE COPEAUX DE CAOUTCHOUC**

[72] SUTTER, MARC, FR

[72] BORGES, PEDRO, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2023-04-17

[86] 2021-10-15 (PCT/FR2021/051795)

[87] (WO2022/101563)

[30] FR (FR2011697) 2020-11-16

[21] **3,195,994**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01) H01F 27/245 (2006.01)**

[25] EN

[54] **WOUND CORE**

[54] **NOYAU ENROULE**

[72] USHIGAMI, YOSHIYUKI, JP

[72] YAMAMOTO, SHINJI, JP

[72] ARAMAKI, TAKEO, JP

[72] KUNITA, YUKI, JP

[72] ARAI, SATOSHI, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2023-04-17

[86] 2021-10-26 (PCT/JP2021/039553)

[87] (WO2022/092116)

[30] JP (2020-178900) 2020-10-26

[21] **3,195,995**
[13] A1

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

[25] EN

[54] **CONTRACT TRADING DEVICE**

[54] **DISPOSITIF DE NEGOCIATION DE CONTRAT**

[72] ZHANG, DACHENG, CN

[72] CHEN, JIE, CN

[72] ZHANG, CHAO, CN

[72] HOU, DIANJI, CN

[72] WANG, XIN, CN

[72] GUO, ZICHUAN, JP

[72] LIANG, YAO, CN

[71] ZHANG, DACHENG, CN

[85] 2023-04-17

[86] 2021-10-11 (PCT/CN2021/123151)

[87] (WO2022/078303)

[30] CN (202011104069.0) 2020-10-18

[30] CN (202011457356.X) 2020-12-13

[30] CN (202110132451.0) 2021-01-31

[21] **3,195,996**
[13] A1

[51] **Int.Cl. E06B 9/264 (2006.01) E06B 3/67 (2006.01) E06B 9/42 (2006.01)**

[25] EN

[54] **AN INSULATING GLASS UNIT, A METHOD OF MAKING SUCH AN INSULATING GLASS UNIT AND A METHOD OF OPERATING A DYNAMIC SHADE IN SUCH AN INSULATING GLASS UNIT, A SUBSTRATE**

[54] **UNITE A VERRE ISOLANT, PROCEDE DE FABRICATION D'UNE TELLE UNITE A VERRE ISOLANT ET PROCEDE DE FONCTIONNEMENT DE STORE DYNAMIQUE DANS UNE TELLE UNITE A VERRE ISOLANT, SUBSTRAT**

[72] KOSKULICS, JEFFREY, US

[72] FINCH, JOSHUA, US

[72] LAWRENCE, DAVID, US

[71] GUARDIAN GLASS, LLC., US

[85] 2023-04-17

[86] 2021-12-22 (PCT/IB2021/062199)

[87] (WO2022/144705)

[30] US (17/138,528) 2020-12-30

[21] **3,195,998**
[13] A1

[51] **Int.Cl. C22C 18/00 (2006.01) C22C 18/04 (2006.01) C23C 2/06 (2006.01) C23C 2/26 (2006.01)**

[25] EN

[54] **PLATED STEEL MATERIAL**

[54] **MATERIAU D'ACIER PLAQUE**

[72] ISHII, KOTARO, JP

[72] TOKUDA, KOHEI, JP

[72] ISHIDA, YOSHINARI, JP

[72] GOTO, YASUTO, JP

[72] SAITO, MAMORU, JP

[71] NIPPON STEEL CORPORATION, JP

[85] 2023-04-17

[86] 2021-11-18 (PCT/JP2021/042376)

[87] (WO2022/107837)

[30] JP (2020-191503) 2020-11-18

[21] **3,195,999**
[13] A1

[51] **Int.Cl. B01D 53/14 (2006.01)**

[25] EN

[54] **REMOVAL OF ACID GASES FROM GASEOUS MIXTURES CONTAINING THEM**

[54] **ELIMINATION DES GAZ ACIDES DE MELANGES GAZEUX LES CONTENANT**

[72] DE ANGELIS, ALBERTO RENATO, IT

[72] FIORI, GIANLUCA, IT

[72] CASTALDO, FILOMENA, IT

[71] ENI S.P.A., IT

[85] 2023-04-17

[86] 2021-11-23 (PCT/IB2021/060849)

[87] (WO2022/112934)

[30] IT (102020000028301) 2020-11-25

[21] **3,196,001**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/28 (2006.01) A61K 9/48 (2006.01) A61K 31/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS OF A KINASE INHIBITOR**

[54] **COMPOSITIONS PHARMACEUTIQUES D'UN INHIBITEUR DE KINASE**

[72] LIEJANTO, ISWADI, US

[72] CHEN, TZU-YUAN, US

[71] EXELIXIS, INC., US

[85] 2023-04-17

[86] 2021-11-04 (PCT/US2021/057996)

[87] (WO2022/098828)

[30] US (63/110,124) 2020-11-05

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[21] **3,196,002**
[13] A1

[51] **Int.Cl. F16C 7/06 (2006.01) F16C 7/02 (2006.01)**
[25] FR
[54] **CONNECTING ROD HAVING CURVED SLATS**
[54] **BIELLE A LATTES CINTREES**
[72] ERTEM, ENGIN, FR
[72] JOSEPH, VINCENT, FR
[72] RIETSCH, JEAN-CHRISTOPHE, FR
[72] BUCHIN, JEAN-MICHEL, FR
[71] HUTCHINSON, FR
[85] 2023-04-17
[86] 2021-10-15 (PCT/IB2021/059516)
[87] (WO2022/084816)
[30] FR (FR2010889) 2020-10-23

[21] **3,196,003**
[13] A1

[51] **Int.Cl. A01N 3/00 (2006.01) A23B 7/10 (2006.01) A23B 7/157 (2006.01) A23L 3/3508 (2006.01)**
[25] EN
[54] **METHOD FOR PRESERVING FRESH FOOD**
[54] **PROCEDE DE CONSERVATION D'ALIMENTS FRAIS**
[72] SINGH, BENJAMIN AMIT, DE
[71] SINGH, BENJAMIN AMIT, DE
[85] 2023-04-17
[86] 2021-10-15 (PCT/EP2021/078675)
[87] (WO2022/079277)
[30] EP (20202194.5) 2020-10-16

[21] **3,196,004**
[13] A1

[51] **Int.Cl. A61F 7/10 (2006.01)**
[25] EN
[54] **A COMPRESSION DEVICE**
[54] **DISPOSITIF DE COMPRESSION**
[72] HANNON, AARON, IE
[72] OLIVEIRA, BARBARA, IE
[72] O'HALLORAN, MARTIN, IE
[71] NATIONAL UNIVERSITY OF IRELAND, GALWAY, IE
[85] 2023-04-17
[86] 2021-10-27 (PCT/EP2021/079891)
[87] (WO2022/090346)
[30] EP (20204121.6) 2020-10-27

[21] **3,196,005**
[13] A1

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 29/10 (2016.01) A23L 29/212 (2016.01) A23J 3/14 (2006.01)**
[25] EN
[54] **MEAT-ANALOGUE COMPOSITION AND PROCESS FOR THE PREPARATION THEREOF**
[54] **COMPOSITION DE SUCCEDANE DE VIANDE ET SON PROCEDE DE PREPARATION**
[72] DEMEURISSE, JEROEN, SE
[71] AAK AB (PUBL), SE
[85] 2023-04-17
[86] 2021-10-21 (PCT/SE2021/051057)
[87] (WO2022/086422)
[30] SE (2030316-0) 2020-10-21

[21] **3,196,006**
[13] A1

[51] **Int.Cl. F01C 1/12 (2006.01) F01C 21/08 (2006.01) F01C 21/18 (2006.01) F02B 53/04 (2006.01) F04C 2/12 (2006.01)**
[25] EN
[54] **A ROTARY DRIVE APPARATUS**
[54] **APPAREIL D'ENTRAINEMENT ROTATIF**
[72] ROBSON, DAVID GEORGE, NZ
[71] ROBSON, DAVID GEORGE, NZ
[85] 2023-04-17
[86] 2021-10-22 (PCT/NZ2021/050186)
[87] (WO2022/086348)
[30] NZ (769323) 2020-10-23

[21] **3,196,007**
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **CARRIER AGGREGATION CONFIGURATION IN 5G WIRELESS NETWORKS**
[54] **CONFIGURATION D'AGREGATION DE PORTEUSES DANS DES RESEAUX SANS FIL 5G**
[72] UMEDA, HIROMASA, JP
[72] VASENKARI, PETRI JUHANI, FI
[72] ALI, AMAANAT, FI
[71] NOKIA TECHNOLOGIES OY, FI
[85] 2023-04-17
[86] 2021-10-14 (PCT/EP2021/078446)
[87] (WO2022/084143)
[30] US (63/104,066) 2020-10-22

[21] **3,196,008**
[13] A1

[51] **Int.Cl. G01N 29/024 (2006.01) G01N 9/26 (2006.01) G01N 9/36 (2006.01) G01N 29/028 (2006.01)**
[25] EN
[54] **AN APPARATUS AND METHOD TO MEASURE SPEED OF SOUND AND DENSITY OF A FLUID**
[54] **APPAREIL ET PROCEDE DE MESURE DE LA VITESSE DU SON ET DE LA DENSITE D'UN FLUIDE**
[72] GYSLING, DANIEL, US
[71] CORVERA LLC, US
[85] 2023-04-17
[86] 2021-10-20 (PCT/US2021/055758)
[87] (WO2022/087073)
[30] US (63/198,462) 2020-10-20

[21] **3,196,009**
[13] A1

[51] **Int.Cl. C07D 413/12 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/08 (2006.01) A61P 13/12 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **AGONISTS OF FREE FATTY ACID RECEPTOR 1 AND THEIR USE IN DISEASES ASSOCIATED WITH SAID RECEPTOR**
[54] **AGONISTES DU RECEPTEUR 1 D'ACIDE GRAS LIBRE ET LEUR UTILISATION DANS DES MALADIES ASSOCIEES AUDIT RECEPTEUR**
[72] SHAFEEV, MIKHAIL, UA
[72] FITZGERALD, DANIEL JOSEF, CH
[72] SCHELISHORN, DOMINIK WOLFGANG, CH
[72] PERVAK, IGOR I., UA
[71] HALO THERAPEUTICS LTD, GB
[85] 2023-04-17
[86] 2020-10-20 (PCT/EP2020/079530)
[87] (WO2022/083853)

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[21] **3,196,010**
[13] A1

[51] **Int.Cl. B29C 31/00 (2006.01) E02F 9/26 (2006.01) E02F 9/28 (2006.01) G01N 3/62 (2006.01)**

[25] EN

[54] **PROTECTIVE CAPSULES FOR EARTH MOVING MACHINES HAVING A SLOT ANTENNA**

[54] **CAPSULES DE PROTECTION POUR MACHINES DE TERRASSEMENT AYANT UNE ANTENNE A FENTE**

[72] JORDI, MARQUEZ LLINAS, ES

[72] ALBERT, GIMENO TORDERA, ES

[72] VICENT, FERRANDIZ BORRAS, ES

[72] NIL, VALLVE BERTRAN, ES

[71] METALOGENIA RESEARCH & TECHNOLOGIES S.L., ES

[85] 2023-04-17

[86] 2021-10-28 (PCT/EP2021/080031)

[87] (WO2022/090412)

[30] EP (20382939.5) 2020-10-28

[30] EP (21382164.8) 2021-02-25

[21] **3,196,011**
[13] A1

[51] **Int.Cl. A44B 18/00 (2006.01) B26B 19/28 (2006.01) B26B 19/38 (2006.01)**

[25] EN

[54] **MULTI-PIECE HAIR CLIPPER CONSTRUCTION WITH METAL OUTER HOUSING**

[54] **STRUCTURE DE TONDEUSE A CHEVEUX EN PLUSIEURS PARTIES PRESENTANT UN BOITIER EXTERNE METALLIQUE**

[72] ARNDT, STEVEN WAYNE, US

[72] CRAIG, NATHANIEL DOUGLAS, US

[72] SAATHOFF, DANIEL MICHAEL, US

[71] WAHL CLIPPER CORPORATION, US

[85] 2023-04-17

[86] 2021-12-08 (PCT/US2021/072806)

[87] (WO2022/133399)

[30] US (17/122,741) 2020-12-15

[21] **3,196,012**
[13] A1

[25] EN

[54] **DERIVING INSIGHTS INTO MOTION OF AN OBJECT THROUGH COMPUTER VISION**

[54] **DERIVATION D'APERCUS EN MOUVEMENT D'UN OBJET PAR L'INTERMEDIAIRE DE LA VISION ARTIFICIELLE**

[72] KRUSZEWSKI, PAUL ANTHONY, CA

[72] ZHANG, WENXIN, CA

[72] LACROIX, ROBERT, CA

[72] RUSSELL, RYAN, US

[71] HINGE HEALTH, INC., US

[85] 2023-04-17

[86] 2021-11-05 (PCT/US2021/058332)

[87] (WO2022/099070)

[30] US (63/110,660) 2020-11-06

[21] **3,196,044**
[13] A1

[51] **Int.Cl. A45D 29/00 (2006.01) A45D 31/00 (2006.01)**

[25] EN

[54] **LIGHT-CURABLE ARTIFICIAL NAILS, METHODS OF PREPARATION AND METHODS OF USE THEREOF**

[54] **ONGLES ARTIFICIELS DURCISSABLES A LA LUMIERE, LEURS PROCEDES DE PREPARATION ET LEURS PROCEDES D'UTILISATION**

[72] LOTTI, SAHARA, US

[71] BRILLIANCE OF BEAUTY, INC., US

[85] 2023-04-18

[86] 2021-11-04 (PCT/US2021/058076)

[87] (WO2022/098883)

[30] US (63/110,218) 2020-11-05

[21] **3,196,045**
[13] A1

[51] **Int.Cl. A61N 5/067 (2006.01) A61C 5/40 (2017.01)**

[25] EN

[54] **LASER SURGICAL APPARATUS FOR PERFORMING TREATMENT BY IRRADIATING A PART TO BE TREATED BY A VARIABLE PULSED LASER BEAM**

[54] **APPAREIL CHIRURGICAL LASER POUR EFFECTUER UN TRAITEMENT PAR EXPOSITION A UN RAYONNEMENT D'UNE PARTIE A TRAITER PAR UN FAISCEAU LASER PULSE VARIABLE**

[72] ASSA, SHLOMO, US

[72] FANG, YINGYUAN, US

[71] FA CORPORATION, US

[85] 2023-04-18

[86] 2021-12-15 (PCT/US2021/063497)

[87] (WO2022/087547)

[30] US (17/073,524) 2020-10-19

[21] **3,196,046**
[13] A1

[51] **Int.Cl. B05B 1/16 (2006.01) B05B 1/12 (2006.01)**

[25] EN

[54] **PRESSURIZED VESSEL DISCHARGE MODIFIER**

[54] **MODIFICATEUR DE DECHARGE DE RECIPIENT SOUS PRESSION**

[72] STODDART, DARREN WADE, US

[72] FAUCHER, MARCEL, US

[71] BEHR PROCESS CORPORATION, US

[85] 2023-04-18

[86] 2021-10-25 (PCT/US2021/056469)

[87] (WO2022/093699)

[30] US (63/107,132) 2020-10-29

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[21] **3,196,047**
[13] A1

[51] **Int.Cl. A23L 33/195 (2016.01) A23L 33/21 (2016.01) A61K 38/47 (2006.01) A61P 1/14 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **USE OF FRUCTOSYLTRANSFERASE**

[54] **UTILISATION DE LA FRUCTOSYLTRANSFERASE**

[72] KJAER, ANDREAS, GB

[72] WICKE, NIELS, GB

[72] SCHULTE, CAROLIN, GB

[72] KOSMIN, JOEL, GB

[72] SAUER, JOSHUA, GB

[71] INULOX LTD, GB

[85] 2023-04-18

[86] 2021-11-02 (PCT/GB2021/052834)

[87] (WO2022/096864)

[30] GB (2017421.5) 2020-11-03

[21] **3,196,048**
[13] A1

[51] **Int.Cl. F24F 5/00 (2006.01) F24F 11/46 (2018.01) F24F 11/61 (2018.01)**

[25] EN

[54] **ICE STORAGE COOLING/ROOM-HEATING/HEATING AIR CONDITIONING SYSTEM CONTROLLED BY WEATHER FORECAST, TIME, TEMPERATURE, AND LIQUID LEVEL**

[54] **SYSTEME DE CLIMATISATION/CHAUFFAGE DES LOCAUX/REFROIDISSEMENT DE STOCKAGE DE GLACE COMMANDE PAR PREVISION METEOROLOGIQUE, TEMPS, TEMPERATURE ET NIVEAU DE LIQUIDE**

[72] QING, YUNFENG, CN

[71] QING, YUNFENG, CN

[85] 2023-04-18

[86] 2021-08-27 (PCT/CN2021/114948)

[87] (WO2022/083283)

[30] CN (202011122593.0) 2020-10-19

[21] **3,196,051**
[13] A1

[51] **Int.Cl. E02D 3/00 (2006.01) E02D 17/20 (2006.01) E02D 29/02 (2006.01)**

[25] EN

[54] **SOIL REINFORCEMENT STRIP AND GRID**

[54] **BANDE ET GRILLE DE RENFORCEMENT DE SOL**

[72] AURAY, GERMAIN, FR

[72] LINS, ANDRE, BE

[72] CATTOOR, KO, BE

[72] ALLAERT, BART, BE

[72] ARESSY, MATTHIEU, FR

[72] FREITAG, NICOLAS, FR

[72] BENNANI BRAOULI, YASSINE, FR

[71] NV BEKAERT SA, BE

[71] SOLETANCHE FREYSSINET, FR

[85] 2023-04-18

[86] 2021-11-03 (PCT/EP2021/080566)

[87] (WO2022/096538)

[30] EP (20290074.2) 2020-11-03

[21] **3,196,053**
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**

[25] EN

[54] **VISOR AND PROTECTIVE FACE SHIELD APPARATUS AND METHODS OF ASSEMBLY**

[54] **VISIÈRE ET APPAREIL D'ÉCRAN FACIAL DE PROTECTION ET PROCÉDES D'ASSEMBLAGE**

[72] LANDIS, TIMOTHY J., US

[71] OP-D-OP, INC., US

[85] 2023-04-18

[86] 2021-10-21 (PCT/US2021/056025)

[87] (WO2022/087247)

[30] US (29/755,787) 2020-10-22

[30] US (17/105,577) 2020-11-26

[21] **3,196,056**
[13] A1

[51] **Int.Cl. E21B 7/24 (2006.01) E21B 7/30 (2006.01)**

[25] EN

[54] **SONIC-POWERED METHODS FOR HORIZONTAL DIRECTIONAL DRILLING**

[54] **PROCEDES A ENERGIE SONIQUE POUR FORAGE DIRECTIONNEL HORIZONTAL**

[72] KNOLLE, L. MARK, US

[71] TERRA SONIC INTERNATIONAL, LLC, US

[85] 2023-04-18

[86] 2021-10-22 (PCT/US2021/056219)

[87] (WO2022/087387)

[30] US (63/104,231) 2020-10-22

[21] **3,196,059**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61P 9/04 (2006.01) A61P 17/06 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TRIAZOLOPYRIDINYL COMPOUNDS AS KINASE INHIBITORS**

[54] **COMPOSES TRIAZOLOPYRIDINYLE EN TANT QU'INHIBITEURS DE KINASE**

[72] LUO, GUANGLIN, US

[72] CHEN, JIE, US

[72] DZIERBA, CAROLYN DIANE, US

[72] FRENNESSON, DAVID B., US

[72] GUO, JUNQING, US

[72] HART, AMY C., US

[72] HU, XIRUI, US

[72] MERTZMAN, MICHAEL E., US

[72] PATTON, MATTHEW REISER, US

[72] SHI, JIANLIANG, US

[72] SPERGEL, STEVEN H., US

[72] VENABLES, BRIAN LEE, US

[72] WU, YONG-JIN, US

[72] XIAO, ZILI, US

[72] YANG, MICHAEL G., US

[71] BRISTOL-MYERS SQUIBB COMPANY, US

[85] 2023-04-18

[86] 2021-10-18 (PCT/US2021/055340)

[87] (WO2022/086828)

[30] US (63/093,463) 2020-10-19

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[21] **3,196,060**
[13] A1

[51] **Int.Cl. A61L 2/28 (2006.01) C12M 1/12 (2006.01) C12Q 1/22 (2006.01) G01N 21/00 (2006.01) G01N 21/64 (2006.01) G01N 35/00 (2006.01)**

[25] EN

[54] **BIOLOGICAL INDICATORS, AND SYSTEMS AND METHODS FOR DETERMINING EFFICACY OF STERILIZATION**

[54] **INDICATEURS BIOLOGIQUES, AINSI QUE SYSTEMES ET PROCEDES POUR DETERMINER L'EFFICACITE D'UNE STERILISATION**

[72] PONCE, ADRIAN, US
[72] NG, KOK-HWEE, US
[72] YELIYUR SIDDEGOWDA, DARSHAN, US
[72] ZIMMERMAN, JENNA, US
[72] NGUYEN, DAT, US
[72] LONDON, MITCHELL, US
[72] KNICKERBOCKER, JAKE DOUGLAS, US
[72] PERKINS, EDWARD MACLEOD, US
[72] WAARTS, ROBERT G., US
[71] STERITEC PRODUCTS MFG. CO., INC., US
[85] 2023-04-18
[86] 2021-12-01 (PCT/US2021/061479)
[87] (WO2022/119972)
[30] US (17/110,229) 2020-12-02

[21] **3,196,061**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5377 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **CFTR MODULATOR COMPOUNDS, COMPOSITIONS, AND USES THEREOF**

[54] **COMPOSES MODULATEURS DE CFTR, COMPOSITIONS ET UTILISATIONS ASSOCIEES**

[72] LEE, MYONGJAE, KR
[72] OH, CHANGMOK, KR
[72] LIM, DAMI, KR
[72] KIM, KYEONG-A, KR
[72] LEE, SEOLHEE, KR
[72] JEONG, ILJI, KR
[72] RYU, JAEJUN, KR
[72] LEE, JOOYUN, KR
[72] JUN, YEARIN, KR
[72] KWON, JINSUN, KR
[72] SOHN, TE-IK, KR
[72] KIM, GUNHEE, KR
[72] KIM, JUNGHO, KR
[72] YOON, JONGMIN, KR
[72] LEE, JIN HEE, KR
[72] YOON, HONGCHUL, KR
[72] LEE, JUNG WOO, KR
[72] PARK, JOONTAE, KR
[72] AN, KYUNG MI, KR
[71] ILDONG PHARMACEUTICAL CO., LTD., KR
[85] 2023-04-18
[86] 2021-10-22 (PCT/IB2021/000710)
[87] (WO2022/084741)
[30] US (63/104,979) 2020-10-23

[21] **3,196,066**
[13] A1

[51] **Int.Cl. A61K 38/46 (2006.01) A61K 47/42 (2017.01)**

[25] EN

[54] **SHUTTLE AGENT PEPTIDES OF MINIMAL LENGTH AND VARIANTS THEREOF ADAPTED FOR TRANSDUCTION OF CAS9-RNP AND OTHER NUCLEOPROTEIN CARGOS**

[54] **PEPTIDES D'AGENT NAVETTE DE LONGUEUR MINIMALE ET VARIANTS DE CEUX-CI ADAPTES A LA TRANSDUCTION DE CAS9-RNP ET D'AUTRES CHARGES NUCLEOPROTEINES**

[72] GUAY, DAVID, CA
[72] HALLEE, STEPHANIE, CA
[72] BARBEAU, XAVIER, CA
[72] DEL'GUIDICE, THOMAS, CA
[72] LEPETIT-STOFFAES, JEAN-PASCAL, CA
[71] FELDAN BIO INC., CA
[85] 2023-04-18
[86] 2021-10-22 (PCT/CA2021/051490)
[87] (3196066)
[30] US (63/104,340) 2020-10-22

[21] **3,196,069**
[13] A1

[51] **Int.Cl. C07K 16/10 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **IMMUNE COMPOSITION COMPRISING ANTIGEN AND GLYCOENGINEERED ANTIBODY THEREOF**

[54] **COMPOSITION IMMUNITAIRE COMPRENANT UN ANTIGENE ET UN ANTICORPS GLYCOMODIFIE DE CELUI-CI**

[72] WU, CHUNG-YI, TW
[72] CHEN, CHIEN-YU, TW
[72] LI, JU MEI, TW
[72] CHU, KUO-CHING, TW
[71] CHO PHARMA, INC., TW
[85] 2023-04-18
[86] 2021-11-05 (PCT/US2021/072272)
[87] (WO2022/099307)
[30] US (63/110,845) 2020-11-06
[30] US (63/178,177) 2021-04-22

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[21] **3,196,070**
[13] A1

[51] **Int.Cl. B23Q 1/01 (2006.01) B27M 1/08 (2006.01)**
[25] FR
[54] **MACHINE TOOL STRUCTURE**
[54] **STRUCTURE DE MACHINE-OUTIL**
[72] ABELARD, FRANCOIS, FR
[71] ENGINEERING FRANCOIS ABELARD, FR
[85] 2023-04-18
[86] 2021-10-26 (PCT/EP2021/079730)
[87] (WO2022/090261)
[30] FR (FR2011004) 2020-10-27

[21] **3,196,072**
[13] A1

[51] **Int.Cl. B60R 22/10 (2006.01) B60N 2/28 (2006.01)**
[25] EN
[54] **SAFETY BELT ADJUSTING STRUCTURE, AND CHILD SAFETY SEAT**
[54] **STRUCTURE DE REGLAGE DE CEINTURE DE SECURITE, ET SIEGE DE SECURITE POUR ENFANT**
[72] ZHAO, GUANGHUI, CN
[72] WU, BO, CN
[72] CHEN, YANMIN, CN
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2023-04-18
[86] 2021-10-18 (PCT/CN2021/124481)
[87] (WO2022/083556)
[30] CN (202022337083.7) 2020-10-19
[30] CN (202022713068.8) 2020-11-19
[30] CN (202110814966.9) 2021-07-19

[21] **3,196,073**
[13] A1

[51] **Int.Cl. H02S 50/10 (2014.01)**
[25] EN
[54] **STOWING OF SOLAR POWER DEVICES**
[54] **RANGEMENT DE DISPOSITIFS A ENERGIE SOLAIRE**
[72] CREAMY, LUCAS, US
[72] ANDERSEN, TODD, US
[72] SHARP, JON, US
[72] STOSHAK, JAMES JOHN, US
[72] SHAH, SANKET, US
[72] FUSARO, JAMES, US
[71] ARRAY TECHNOLOGIES, INC., US
[85] 2023-04-18
[86] 2021-10-19 (PCT/US2021/055683)
[87] (WO2022/087020)
[30] US (63/093,685) 2020-10-19
[30] US (17/505,518) 2021-10-19

[21] **3,196,074**
[13] A1

[51] **Int.Cl. G06N 10/60 (2022.01) G06N 10/80 (2022.01) G06N 3/08 (2023.01)**
[25] EN
[54] **ENHANCING COMBINATORIAL OPTIMIZATION WITH QUANTUM GENERATIVE MODELS**
[54] **AMELIORATION D'UNE OPTIMISATION COMBINATOIRE AVEC DES MODELES GENERATIFS QUANTIQUES**
[72] ALCAZAR, FRANCISCO JAVIER FERNANDEZ, US
[72] PERDOMO ORTIZ, ALEJANDRO, US
[71] ZAPATA COMPUTING, INC., US
[85] 2023-04-18
[86] 2021-12-07 (PCT/US2021/062191)
[87] (WO2022/173497)
[30] US (63/122,163) 2020-12-07

[21] **3,196,076**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **SUBCUTANEOUS DOSING OF ANTI-CD20/ANTI-CD3 BISPECIFIC ANTIBODIES**
[54] **DOSAGE SOUS-CUTANE D'ANTICORPS BISPECIFIQUES ANTI-CD20/ANTI-CD3**
[72] LI, CHI-CHUNG, US
[72] O'HEAR, CAROL ELAINE, US
[72] WANG, HONG, US
[72] BENDER, BRENDAN CHRISTIAN, US
[72] HOSSEINI, IRAJ, US
[71] GENENTECH, INC., US
[85] 2023-04-18
[86] 2021-11-02 (PCT/US2021/057676)
[87] (WO2022/098628)
[30] US (63/109,777) 2020-11-04
[30] US (63/273,566) 2021-10-29
[30] US (63/188,561) 2021-05-14

[21] **3,196,077**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/18 (2006.01) A61K 38/21 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **BIFUNCTIONAL ANTAGONISTS OF TUMOR NECROSIS FACTOR-ALPHA AND TRANSFORMING GROWTH FACTOR-BETA AND USES THEREOF**
[54] **ANTAGONISTES BIFONCTIONNELS DU FACTEUR DE NECROSE TUMORALE ALPHA ET DU FACTEUR DE CROISSANCE TRANSFORMANT BETA ET UTILISATIONS ASSOCIEES**
[72] HAN, HQ, US
[72] ZHOU, XIAOLAN, US
[71] HAN, HQ, US
[71] ZHOU, XIAOLAN, US
[85] 2023-04-18
[86] 2021-10-22 (PCT/US2021/056282)
[87] (WO2022/087435)
[30] US (63/104,850) 2020-10-23

PCT Applications Entering the National Phase

[21] **3,196,078**
[13] A1

[51] **Int.Cl. F04C 2/10 (2006.01)**
[25] EN
[54] **HYDRAULIC MACHINE**
[54] **MACHINE HYDRAULIQUE**
[72] MROWCZYNSKI, ADAM, PL
[71] WHITE DRIVE MOTORS AND
STEERING SP. Z.O.O., PL
[85] 2023-04-18
[86] 2021-12-08 (PCT/EP2021/084710)
[87] (WO2022/128660)
[30] EP (20213831.9) 2020-12-14

[21] **3,196,080**
[13] A1

[51] **Int.Cl. A24F 40/485 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **VALVE FOR POD CONTAINING E-LIQUID**
[54] **VALVE POUR CAPSULE CONTENANT UN LIQUIDE A VAPOTER**
[72] COBURN, BRODERICK, CH
[72] SECO, JOAO, CH
[71] JT INTERNATIONAL SA, CH
[85] 2023-04-18
[86] 2021-11-08 (PCT/EP2021/080900)
[87] (WO2022/101124)
[30] EP (20207497.7) 2020-11-13

[21] **3,196,083**
[13] A1

[51] **Int.Cl. B22F 10/28 (2021.01) B23K 26/342 (2014.01) B33Y 50/02 (2015.01) B29C 64/153 (2017.01) B29C 64/393 (2017.01) B22F 10/85 (2021.01) B22F 12/90 (2021.01) B23K 26/03 (2006.01) G06N 3/04 (2023.01)**
[25] FR
[54] **METHOD FOR DETECTING DEFECTS DURING LASER ADDITIVE MANUFACTURING, DATA PROCESSING DEVICE, COMPUTER PROGRAM AND STORAGE MEDIUM FOR IMPLEMENTING THE METHOD**
[54] **PROCEDE DE DETECTION DE DEFAUTS LORS D'UNE FABRICATION ADDITIVE PAR LASER, DISPOSITIF DE TRAITEMENT DE DONNEES, PROGRAMME D'ORDINATEUR ET SUPPORT DE STOCKAGE POUR LA MISE EN OEUVRE DU PROCEDE**
[72] CHANDELLE, ANDRE, FR
[72] REDOULES, GUILLAUME, FR
[71] ARIANEGROUP SAS, FR
[85] 2023-04-18
[86] 2021-10-22 (PCT/FR2021/051864)
[87] (WO2022/084640)
[30] FR (FR2010828) 2020-10-22

[21] **3,196,084**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01)**
[25] EN
[54] **ON UE'S TRANSMISSION CONFIGURED WITH MULTIPLE CHANNEL OCCUPANCY TIME ACCESS**
[54] **TRANSMISSION D'UN UE ALLUME CONFIGUREE AVEC UN ACCES A DE MULTIPLES TEMPS D'OCCUPATION DE CANAL**
[72] SINGH, BIKRAMJIT, FI
[72] FALAHATI, SOROUR, SE
[72] BLANKENSHIP, YUFEI, US
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2023-04-18
[86] 2021-10-18 (PCT/IB2021/059586)
[87] (WO2022/079700)
[30] US (63/093,251) 2020-10-18

[21] **3,196,085**
[13] A1

[51] **Int.Cl. A47L 23/02 (2006.01) A61L 2/10 (2006.01) A61L 2/24 (2006.01)**
[25] EN
[54] **ULTRAVIOLET SHIELDING DEVICES, SYSTEMS, AND METHODS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE PROTECTION CONTRE LES ULTRAVIOLETS**
[72] MCKEON, ROBERT F., US
[71] NITTANY SOLUTIONS GROUP, LLC, US
[85] 2023-04-18
[86] 2021-10-19 (PCT/US2021/055536)
[87] (WO2022/086912)
[30] US (17/074,015) 2020-10-19
[30] US (17/074,025) 2020-10-19

[21] **3,196,087**
[13] A1

[51] **Int.Cl. F04C 2/10 (2006.01)**
[25] EN
[54] **HYDRAULIC MACHINE**
[54] **MACHINE HYDRAULIQUE**
[72] KLEIN, KAMIL, PL
[71] WHITE DRIVE MOTORS AND STEERING SP. Z.O.O., PL
[85] 2023-04-18
[86] 2021-12-08 (PCT/EP2021/084713)
[87] (WO2022/128661)
[30] EP (20213832.7) 2020-12-14

[21] **3,196,089**
[13] A1

[51] **Int.Cl. B29B 11/14 (2006.01) B29C 49/00 (2006.01) B29C 49/22 (2006.01) B65D 77/04 (2006.01) B65D 83/00 (2006.01) B65D 83/60 (2006.01)**
[25] EN
[54] **PREFORM ASSEMBLY FOR PRODUCING A CONTAINER**
[54] **ENSEMBLE PREFORME POUR LA FABRICATION D'UN CONTENANT**
[72] COVI, EMANUELA, IT
[71] COVI, EMANUELA, IT
[85] 2023-04-18
[86] 2021-10-19 (PCT/IT2021/050338)
[87] (WO2022/085037)
[30] IT (102020000024688) 2020-10-20

Demandes PCT entrant en phase nationale

[21] **3,196,091**
[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] 2023-04-18
[86] 2021-12-13 (PCT/EP2021/085390)
[87] (WO2022/128861)
[30] IT (10202000030809) 2020-12-15

[21] **3,196,092**
[13] A1

[51] **Int.Cl. A61K 31/397 (2006.01) A61K 31/4427 (2006.01) A61P 13/08 (2006.01) A61P 19/10 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 205/06 (2006.01) C07D 401/06 (2006.01) C07D 401/10 (2006.01) C07D 405/10 (2006.01)**
[25] EN
[54] **SUBSTITUTED 6,7-DIHYDRO-5H-BENZO[7]ANNULENE COMPOUNDS AND THEIR DERIVATIVES, PROCESSES FOR THEIR PREPARATION AND THERAPEUTIC USES THEREOF**
[54] **COMPOSES DE 6,7-DIHYDRO-5H-BENZO[7]ANNULENE SUBSTITUES, LEURS DERIVES, PROCEDES PERMETTANT LEUR PREPARATION ET UTILISATIONS THERAPEUTIQUES ASSOCIEES**
[72] BERNARDELLI, PATRICK, FR
[72] BIANCIOTTO, MARC, FR
[72] EL AHMAD, YOUSSEF, FR
[72] HALLEY, FRANK, FR
[72] MOUGENOT, PATRICK, FR
[72] PETIT, FREDERIC, FR
[72] SLOWINSKI, FRANCK, FR
[72] TERRIER, CORINNE, FR
[71] SANOFI, FR
[85] 2023-04-18
[86] 2021-10-19 (PCT/EP2021/078916)
[87] (WO2022/084298)
[30] EP (20306236.9) 2020-10-19
[30] EP (21306282.1) 2021-09-16

[21] **3,196,093**
[13] A1

[51] **Int.Cl. B25J 9/00 (2006.01) B65G 1/137 (2006.01) B65G 47/90 (2006.01) B65G 61/00 (2006.01)**
[25] EN
[54] **PALLET TRANSFER DEVICE FOR ROBOT PALLETIZING, A SYSTEM FOR ROBOT PALLETIZING INCLUDING THE PALLET TRANSFER DEVICE AND A METHOD FOR ROBOT PALLETIZING**
[54] **DISPOSITIF DE TRANSFERT DE PALETTES POUR PALETTISATION A ROBOT, SYSTEME DE PALETTISATION A ROBOT COMPRENANT LE DISPOSITIF DE TRANSFERT DE PALETTES ET PROCEDE DE PALETTISATION A ROBO**
[72] LOFQVIST, JOHAN, SE
[71] ROBOTAUTOMATION SVENSKA AB, SE
[85] 2023-04-18
[86] 2021-10-07 (PCT/EP2021/077730)
[87] (WO2022/148561)
[30] EP (21150995.5) 2021-01-11

[21] **3,196,094**
[13] A1

[51] **Int.Cl. G01N 33/569 (2006.01)**
[25] EN
[54] **PROTEINS FOR THE DETECTION OF SCHISTOSOMA INFECTION**
[54] **PROTEINES POUR LA DETECTION D'UNE INFECTION A SCHISTOSOMES**
[72] GRECO, BEATRICE, CH
[72] OEUVRAY, CLAUDE, CH
[72] LOUKAS, ALEX, AU
[72] PEARSON, MARK, AU
[72] SOTILLO-GALLEGO, JAVIER, ES
[71] MERCK PATENT GMBH, DE
[85] 2023-04-18
[86] 2021-10-27 (PCT/EP2021/079886)
[87] (WO2022/090343)
[30] EP (20204189.3) 2020-10-27

[21] **3,196,096**
[13] A1

[51] **Int.Cl. E04F 10/10 (2006.01)**
[25] EN
[54] **SLAT ROOF FOR A CANOPY, KIT OF PARTS FOR ASSEMBLING THE SLAT ROOF, CANOPY COMPRISING THE SLAT ROOF**
[54] **TOIT A LATTES POUR UN AUVENT, KIT DE PIECES POUR ASSEMBLER LEDIT TOIT A LATTES. L'INVENTION CONCERNE UN AUVENT COMPRENANT UN TOIT A LATTES.**
[72] BRABANT, PIETER LEOPOLD ANDRE, BE
[72] LEMIEGRE, KRISTOF, BE
[71] RENSON SUNPROTECTION-SCREENS, BE
[85] 2023-04-18
[86] 2021-10-20 (PCT/IB2021/059648)
[87] (WO2022/084871)
[30] BE (BE2020/5737) 2020-10-22

[21] **3,196,097**
[13] A1

[51] **Int.Cl. B67D 1/08 (2006.01) B67D 7/02 (2010.01) B67D 1/04 (2006.01)**
[25] EN
[54] **SPRING-BIASED DISPENSING VALVE**
[54] **SOUPAPE DE DISTRIBUTION SOLLICITEE PAR RESSORT**
[72] COVI, EMANUELA, IT
[71] COVI, EMANUELA, IT
[85] 2023-04-18
[86] 2021-10-19 (PCT/IT2021/050340)
[87] (WO2022/085039)
[30] IT (10202000024682) 2020-10-20
[30] IT (10202000025486) 2020-10-27

PCT Applications Entering the National Phase

[21] **3,196,098**
[13] A1

[51] **Int.Cl. B29C 51/00 (2006.01) B65D 65/46 (2006.01) C08J 5/18 (2006.01) C11D 17/04 (2006.01)**

[25] EN

[54] **WATER-SOLUBLE FILMS, WATER-SOLUBLE UNIT DOSE ARTICLES, AND METHODS OF MAKING AND USING THE SAME**

[54] **FILMS HYDROSOLUBLES, ARTICLES MONODOSES HYDROSOLUBLES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] COURCHAY, FLORENCE
CATHERINE, BE

[72] FRIEDRICH, STEVEN G., US

[72] LABEQUE, REGINE, BE

[72] LI, SHIGENG, US

[72] VITIELLO, LUCA, BE

[71] MONOSOL, LLC, US

[85] 2023-04-18

[86] 2021-12-15 (PCT/US2021/063431)

[87] (WO2022/132853)

[30] EP (20214215.4) 2020-12-15

[21] **3,196,099**
[13] A1

[51] **Int.Cl. E04B 1/68 (2006.01) E04B 1/684 (2006.01) E04C 2/24 (2006.01) E04C 2/296 (2006.01)**

[25] EN

[54] **PANEL-FORMING PROCESS AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE FORMATION DE PANNEAU**

[72] WARD, EDWARD, GB

[72] ROGERS, PAUL, GB

[71] WARD, EDWARD, GB

[71] ROGERS, PAUL, GB

[85] 2023-04-18

[86] 2021-10-11 (PCT/GB2021/052618)

[87] (WO2022/084647)

[30] GB (2016531.2) 2020-10-19

[21] **3,196,100**
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) C07K 14/005 (2006.01) C07K 14/08 (2006.01) C07K 14/155 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING HIV ENVELOPES TO INDUCE HIV-1 ANTIBODIES**

[54] **COMPOSITIONS COMPRENANT DES ENVELOPPES DE VIH POUR INDUIRE DES ANTICORPS CONTRE LE VIH-1**

[72] SAUNDERS, KEVIN O., US

[72] HAYNES, BARTON F., US

[72] KORBER, BETTE T., US

[72] WAGH, KSHITIJ G., US

[71] DUKE UNIVERSITY, US

[71] TRIAD NATIONAL SECURITY, LLC, US

[85] 2023-04-18

[86] 2021-10-19 (PCT/US2021/055699)

[87] (WO2022/087031)

[30] US (63/093,675) 2020-10-19

[21] **3,196,102**
[13] A1

[51] **Int.Cl. B29C 70/54 (2006.01) B29C 70/44 (2006.01) B29C 70/88 (2006.01)**

[25] EN

[54] **FLOW- ENHANCING FABRIC, SPAR CAP AND WIND TURBINE BLADE AND METHOD FOR MANUFACTURING A SPAR CAP AND WIND TURBINE BLADE**

[54] **TISSU AMELIORANT L'ECOULEMENT, SEMELLE DE LONGERON ET PALE D'EOLIENNE, ET PROCEDE DE FABRICATION D'UNE SEMELLE DE LONGERON ET D'UNE PALE D'EOLIENNE**

[72] JORGENSEN, JEPPE, DK

[72] JESPERSEN, KLAVS, DK

[72] NIELSEN, OLE, DK

[71] LM WIND POWER A/S, DK

[85] 2023-04-18

[86] 2021-11-25 (PCT/EP2021/083048)

[87] (WO2022/112445)

[30] GB (2018596.3) 2020-11-26

[21] **3,196,103**
[13] A1

[51] **Int.Cl. A61K 31/4427 (2006.01) A61K 31/4436 (2006.01) A61K 31/4439 (2006.01) A61P 13/08 (2006.01) A61P 19/10 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) C07D 205/04 (2006.01) C07D 401/10 (2006.01) C07D 403/10 (2006.01) C07D 405/10 (2006.01) C07D 409/10 (2006.01)**

[25] EN

[54] **SUBSTITUTED 6,7-DIHYDRO-5H-BENZO[7]ANNULENE COMPOUNDS AND THEIR DERIVATIVES, PROCESSES FOR THEIR PREPARATION AND THERAPEUTIC USES THEREOF**

[54] **COMPOSES 6,7-DIHYDRO-5H-BENZO[7]ANNULENE SUBSTITUES ET LEURS DERIVES, PROCESSUS PERMETTANT LEUR PREPARATION ET UTILISATIONS THERAPEUTIQUES ASSOCIEES**

[72] BERNARDELLI, PATRICK, FR

[72] BIANCIOTTO, MARC, FR

[72] CERTAL, VICTOR, FR

[72] DA ROCHA, ALICE, FR

[72] DE BRUIN, BEATRICE, FR

[72] EL AHMAD, YOUSSEF, FR

[72] HALLEY, FRANK, FR

[72] MOUGENOT, PATRICK, FR

[72] NICOLAI, ERIC, FR

[72] PERIERS, ANNE-MARIE, FR

[72] PETIT, FREDERIC, FR

[72] SLOWINSKI, FRANCK, FR

[72] TERRIER, CORINNE, FR

[71] SANOFI, FR

[85] 2023-04-18

[86] 2021-10-19 (PCT/EP2021/078883)

[87] (WO2022/084280)

[30] EP (20306236.9) 2020-10-19

[30] EP (21306281.3) 2021-09-16

Demandes PCT entrant en phase nationale

[21] **3,196,104**
[13] A1

[51] **Int.Cl. F04D 19/04 (2006.01) F04D 29/058 (2006.01) F04D 29/059 (2006.01) F04D 29/063 (2006.01) F16N 7/36 (2006.01)**

[25] EN

[54] **OIL FEED NUT AND OIL RESERVOIR FOR A VACUUM PUMP**

[54] **ECROU D'ALIMENTATION EN HUILE ET RESERVOIR D'HUILE POUR UNE POMPE A VIDE**

[72] COBBETT, ANDREW, GB
[72] WESTON, KEITH, GB
[72] HORLER, RICHARD GLYN, GB
[71] EDWARDS LIMITED, GB
[85] 2023-04-18
[86] 2021-10-28 (PCT/GB2021/052798)
[87] (WO2022/090720)
[30] GB (2017309.2) 2020-11-02

[21] **3,196,106**
[13] A1

[51] **Int.Cl. B65D 65/46 (2006.01) B29C 51/00 (2006.01) B29C 51/10 (2006.01) B29C 51/26 (2006.01) C08J 5/18 (2006.01) C11D 17/04 (2006.01)**

[25] EN

[54] **WATER-SOLUBLE FILMS, WATER-SOLUBLE UNIT DOSE ARTICLES, AND METHODS OF MAKING AND USING THE SAME**

[54] **FILMS HYDROSOLUBLES, ARTICLES MONODOSES HYDROSOLUBLES ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] COURCHAY, FLORENCE
[72] CATHERINE, BE
[72] FRIEDRICH, STEVEN G., US
[72] LABEQUE, REGINE, BE
[72] LI, SHIGENG, US
[72] VITIELLO, LUCA, BE
[71] MONOSOL, LLC, US
[85] 2023-04-18
[86] 2021-12-15 (PCT/US2021/063427)
[87] (WO2022/132850)
[30] EP (20214222.0) 2020-12-15

[21] **3,196,107**
[13] A1

[51] **Int.Cl. B65G 7/12 (2006.01)**

[25] EN

[54] **FURNITURE HANDLING STRAP**

[54] **SANGLE DE MANIPULATION DE MOBILIER**

[72] BAKER, JASON M., US
[72] RAINS, JASON D., US
[71] LA-Z-BOY INCORPORATED, US
[85] 2023-04-18
[86] 2021-11-23 (PCT/US2021/060565)
[87] (WO2022/109471)
[30] US (63/117,055) 2020-11-23
[30] US (17/456,111) 2021-11-22

[21] **3,196,110**
[13] A1

[51] **Int.Cl. C12N 1/04 (2006.01) C12N 5/071 (2010.01)**

[25] EN

[54] **A STORAGE METHOD OF HUMAN CORNEAL ENDOTHELIAL CELLS AND/OR HUMAN CORNEAL ENDOTHELIAL PRECURSOR CELLS**

[54] **PROCEDE DE CONSERVATION DE CELLULES ENDOTHELIALES CORNEENNES HUMAINES ET/OU DE CELLULES PROGENITRICES ENDOTHELIALES CORNEENNES HUMAINES**

[72] KINOSHITA, SHIGERU, JP
[72] TODA, MUNETOYO, JP
[72] SOTOZONO, CHIE, JP
[72] UENO, MORIO, JP
[71] KYOTO PREFECTURAL PUBLIC UNIVERSITY CORPORATION, JP
[85] 2023-04-18
[86] 2021-10-19 (PCT/JP2021/038609)
[87] (WO2022/085680)
[30] JP (2020-177634) 2020-10-22

[21] **3,196,112**
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/18 (2006.01) A61K 38/21 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01)**

[25] EN

[54] **BIFUNCTIONAL ANTAGONISTS OF ACTIVIN AND TUMOR NECROSIS FACTOR-ALPHA AND USES THEREOF**

[54] **ANTAGONISTES BIFONCTIONNELS DE L'ACTIVINE ET DU FACTEUR DE NECROSE TUMORALE ALPHA ET LEURS UTILISATIONS**

[72] HAN, HQ, US
[72] ZHOU, XIAOLAN, US
[71] HAN, HQ, US
[71] ZHOU, XIAOLAN, US
[85] 2023-04-18
[86] 2021-10-22 (PCT/US2021/056272)
[87] (WO2022/087426)
[30] US (63/104,765) 2020-10-23
[30] US (63/113,918) 2020-11-15

[21] **3,196,113**
[13] A1

[51] **Int.Cl. A01M 21/02 (2006.01)**

[25] EN

[54] **WEEDING ROBOT MECHANISM**

[54] **MECANISME DE ROBOT DE DESHERBAGE**

[72] ELFFERICH, JOHANNES
[72] FREDERIK, NL
[72] LUKAART, MARTIJN ROLAND, NL
[72] VAN DE WEIJER, RUDOLF PAULUS MARIA, NL
[71] ODD.BOT B.V., NL
[85] 2023-04-18
[86] 2021-10-19 (PCT/NL2021/050630)
[87] (WO2022/086322)
[30] NL (2026700) 2020-10-19

PCT Applications Entering the National Phase

[21] **3,196,115**
[13] A1

[51] **Int.Cl. B60D 1/07 (2006.01) B60D 1/01 (2006.01) B60D 1/06 (2006.01) B62D 53/08 (2006.01)**

[25] EN
[54] **FIFTH WHEEL HITCH**
[54] **SELLETTE D'ATTELAGE**

[72] DILLER, JOEL D., US
[72] PARZYCK, WOLFE C., US
[71] CURT MANUFACTURING, LLC, US
[85] 2023-04-18
[86] 2021-10-19 (PCT/US2021/055653)
[87] (WO2022/086995)
[30] US (63/093,454) 2020-10-19
[30] US (17/505,274) 2021-10-19

[21] **3,196,116**
[13] A1

[51] **Int.Cl. C12N 15/90 (2006.01)**

[25] EN
[54] **SYSTEMS, METHODS, AND COMPOSITIONS FOR SITE-SPECIFIC GENETIC ENGINEERING USING PROGRAMMABLE ADDITION VIA SITE-SPECIFIC TARGETING ELEMENTS (PASTE)**

[54] **SYSTEMES, METHODES ET COMPOSITIONS POUR INGENIERIE GENETIQUE SPECIFIQUE A UN SITE A L'AIDE D'AJOUT PROGRAMMABLE PAR L'INTERMEDIAIRE D'ELEMENTS DE CIBLAGE SPECIFIQUES DE SITE (PASTE)**

[72] ABUDAYYEH, OMAR, US
[72] GOOTENBERG, JONATHAN, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2023-04-18
[86] 2021-10-21 (PCT/US2021/056006)
[87] (WO2022/087235)
[30] US (63/094,803) 2020-10-21
[30] US (63/222,550) 2021-07-16

[21] **3,196,117**
[13] A1

[25] EN
[54] **CELL CULTURE SYSTEM AND METHODS OF USING THE SAME**

[54] **SYSTEME CULTURE CELLULAIRE ET SES PROCEDES D'UTILISATION**

[72] WARDELL, SETH, US
[72] WYPYCH, JOSEPH JAMES, US
[71] IOVANCE BIOTHERAPEUTICS, INC., US
[85] 2023-04-18
[86] 2021-10-22 (PCT/US2021/056125)
[87] (WO2022/087324)
[30] US (63/104,481) 2020-10-22

[21] **3,196,119**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/438 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/496 (2006.01) A61K 31/497 (2006.01) A61K 31/4985 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/675 (2006.01) A61P 25/00 (2006.01) A61P 25/08 (2006.01) A61P 25/16 (2006.01) A61P 25/22 (2006.01) A61P 25/28 (2006.01) C07D 221/20 (2006.01) C07D 401/14 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07F 9/6558 (2006.01)**

[25] EN
[54] **A MAGL INHIBITOR**
[54] **INHIBITEUR DE MAGL**

[72] WIENER, JOHN J. M., US
[72] GRICE, CHERYL A., US
[72] BUZARD, DANIEL J., US
[72] CISAR, JUSTIN S., US
[72] WEBER, OLIVIA D., US
[72] ALLAN, AMY, US
[72] RAFFAELE, NICHOLAS, US
[72] MOODY, JEANNE V., US
[72] SHAGHAFI, MICHAEL B., US
[71] H. LUNDBECK A/S., DK
[85] 2023-04-18
[86] 2021-11-12 (PCT/EP2021/081522)
[87] (WO2022/101412)
[30] US (63/113,662) 2020-11-13

[21] **3,196,120**
[13] A1

[51] **Int.Cl. A61P 27/02 (2006.01)**

[25] EN
[54] **FORMULATIONS OF AZOBENZENE PHOTOREACTIVE COMPOUNDS**

[54] **FORMULATIONS DE COMPOSES PHOTOREACTIFS D'AZOBENZENE**

[72] KRAMER, RICHARD H., US
[72] CAO, KEVIN, US
[72] GUKASYAN, HOVHANNES, US
[72] STREM, BRIAN M., US
[71] BAYON THERAPEUTICS, INC., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2023-04-18
[86] 2021-10-22 (PCT/US2021/056323)
[87] (WO2022/093652)
[30] US (63/106,297) 2020-10-27

[21] **3,196,121**
[13] A1

[51] **Int.Cl. A24F 15/015 (2020.01) A24F 40/10 (2020.01) A24F 40/485 (2020.01)**

[25] EN
[54] **A METHOD OF FILLING A CARTRIDGE FOR A VAPOUR GENERATING SYSTEM**

[54] **PROCEDE DE REMPLISSAGE D'UNE CARTOUCHE POUR UN SYSTEME DE GENERATION DE VAPEUR**

[72] HIJMA, HERMAN, NL
[71] JT INTERNATIONAL SA, CH
[85] 2023-04-18
[86] 2021-10-15 (PCT/EP2021/078644)
[87] (WO2022/084187)
[30] EP (20203482.3) 2020-10-23

Demandes PCT entrant en phase nationale

[21] **3,196,122**
[13] A1

[51] **Int.Cl. G06N 20/10 (2019.01) G06N 10/00 (2022.01)**
[25] EN
[54] **QUANTUM COMPUTING WITH KERNEL METHODS FOR MACHINE LEARNING**
[54] **CALCUL QUANTIQUE AVEC DES PROCEDES A NOYAU POUR APPRENTISSAGE AUTOMATIQUE**
[72] MCCLEAN, JARROD RYAN, US
[72] HUANG, HSIN-YUAN, US
[71] GOOGLE LLC, US
[85] 2023-04-18
[86] 2021-10-19 (PCT/US2021/055545)
[87] (WO2022/086918)
[30] US (63/093,611) 2020-10-19

[21] **3,196,124**
[13] A1

[51] **Int.Cl. A23F 5/26 (2006.01)**
[25] EN
[54] **EXTRACTION CELL**
[54] **CELLULE D'EXTRACTION**
[72] MURPHY, KIERAN, US
[72] GUILHERME, ELIZABETH, US
[71] STARBUCKS CORPORATION D/B/A STARBUCKS COFFEE COMPANY, US
[85] 2023-04-18
[86] 2021-10-21 (PCT/US2021/056072)
[87] (WO2022/093627)
[30] US (63/105,581) 2020-10-26
[30] US (63/167,258) 2021-03-29
[30] US (63/203,192) 2021-07-12
[30] US (17/444,859) 2021-08-11

[21] **3,196,125**
[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01) H01B 7/08 (2006.01)**
[25] EN
[54] **RIBBON WITH NON-OVERLAPPING INTERMITTENT BONDS BETWEEN OPTICAL FIBER SUBUNITS**
[54] **RUBAN A LIAISONS INTERMITTENTES NON CHEVAUCHANTES ENTRE DES SOUS-UNITES DE FIBRES OPTIQUES**
[72] ABEDIJABERI, ARASH, US
[72] BLACK, RONALD STEVEN, US
[72] CHIASSON, DAVID WESLEY, CA
[72] HOWE, DARIN GREGORY, US
[72] MILLS, GREGORY ALAN, US
[71] CORNING RESEARCH & DEVELOPMENT CORPORATION, US
[85] 2023-04-18
[86] 2021-10-04 (PCT/US2021/053322)
[87] (WO2022/086700)
[30] US (63/093,358) 2020-10-19

[21] **3,196,126**
[13] A1

[25] EN
[54] **MULTIPARAMETER LEAD SET AND METHODS OF USE THEREOF**
[54] **ENSEMBLE DE CONDUCTEURS MULTI-PARAMETRES ET LEURS METHODES D'UTILISATION**
[72] SELVITELLI, DAVID M., US
[72] TREMBLAY, KATHLEEN M., US
[72] FINKE, MELVIN A., US
[72] GARSTKA, ERICK, US
[71] KPR U.S., LLC, US
[85] 2023-04-18
[86] 2021-10-19 (PCT/US2021/055626)
[87] (WO2022/086973)
[30] US (63/093,650) 2020-10-19

[21] **3,196,127**
[13] A1

[51] **Int.Cl. A61C 5/40 (2017.01) A61C 1/02 (2006.01) A61C 1/06 (2006.01) A61C 1/14 (2006.01) A61C 1/18 (2006.01)**
[25] EN
[54] **ENDODONTIC DRIVING AND OPERATING DEVICE**
[54] **DISPOSITIF D'ENTRAINEMENT ET D'ACTIONNEMENT ENDODONTIQUE**
[72] SCHREIBER, ZEEV, DE
[71] REDENTNOVA GMBH & CO. KG, DE
[85] 2023-04-18
[86] 2021-12-05 (PCT/EP2021/084296)
[87] (WO2022/122602)
[30] EP (20212388.1) 2020-12-08

[21] **3,196,129**
[13] A1

[51] **Int.Cl. G01S 19/22 (2010.01)**
[25] FR
[54] **METHOD FOR DETECTING MASKING OF ONE OR MORE SATELLITES, ELECTRONIC DETECTION DEVICE AND ASSOCIATED COMPUTER PROGRAM PRODUCT**
[54] **PROCEDE DE DETECTION D'UN MASQUAGE D'UN OU PLUSIEURS SATELLITES, DISPOSITIF ELECTRONIQUE DE DETECTION ET PRODUIT PROGRAMME D'ORDINATEUR ASSOCIE**
[72] MARTIN, NICOLAS, FR
[72] HALEP, MUHAMMED, FR
[72] MEHLEN, CHRISTIAN, FR
[71] THALES, FR
[85] 2023-04-18
[86] 2021-10-25 (PCT/EP2021/079542)
[87] (WO2022/090157)
[30] FR (FR2010946) 2020-10-26

PCT Applications Entering the National Phase

[21] **3,196,130**
[13] A1

[51] **Int.Cl. B25F 5/02 (2006.01) B25G 1/08 (2006.01)**

[25] EN

[54] **IMPACT DRIVER WITH RETRACTABLE BIT-HOLDER**

[54] **PERCEUSE A PERCUSSION AVEC PORTE-FORET RETRACTABLE**

[72] FRUHM, HERMANN, CA

[71] FRUHM, HERMANN, CA

[85] 2023-04-18

[86] 2021-12-08 (PCT/CA2021/051762)

[87] (3196130)

[30] US (63/125,113) 2020-12-14

[21] **3,196,131**
[13] A1

[51] **Int.Cl. H04W 16/26 (2009.01) H04W 84/12 (2009.01) H04W 88/08 (2009.01) H04W 76/10 (2018.01)**

[25] EN

[54] **USER FRIENDLY TARGETED METHODOLOGY FOR SATELLITE INSTALLATION USING MOBILE APP**

[54] **METHODOLOGIE CIBLEE CONVIVIALE POUR UNE INSTALLATION DE SATELLITE A L'AIDE D'UNE APPLICATION MOBILE**

[72] CHANDRASEKARAN, SATHISH ARUMUGAM, IN

[72] NARAYANAN, MURALIDHARAN, IN

[72] GANAPATHY, JALAGANDESWARI, IN

[71] ARRIS ENTERPRISES LLC, US

[85] 2023-04-18

[86] 2021-08-30 (PCT/US2021/048171)

[87] (WO2022/086628)

[30] US (63/093,455) 2020-10-19

[21] **3,196,132**
[13] A1

[51] **Int.Cl. F27B 14/06 (2006.01)**

[25] FR

[54] **COMPACT AND LIGHT ELECTROMAGNETIC SHIELDING FOR A HIGH POWER INDUCTOR**

[54] **BLINDAGE ELECTROMAGNETIQUE COMPACT ET LEGER POUR INDUCTEUR A FORTE PUISSANCE**

[72] ROUSSET, ETIENNE, FR

[72] QUIDOR, GILLES, FR

[72] BRUN, PATRICE, FR

[71] ORANO RECYCLAGE, FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR

[85] 2023-04-18

[86] 2021-10-25 (PCT/FR2021/051871)

[87] (WO2022/084641)

[30] FR (2010884) 2020-10-23

[21] **3,196,133**
[13] A1

[51] **Int.Cl. A24F 40/10 (2020.01) A24F 40/46 (2020.01)**

[25] EN

[54] **A VAPOUR GENERATING SYSTEM**

[54] **DISPOSITIF DE GENERATION DE VAPEUR**

[72] HIJMA, HERMAN, NL

[71] JT INTERNATIONAL SA, CH

[85] 2023-04-18

[86] 2021-10-15 (PCT/EP2021/078642)

[87] (WO2022/084186)

[30] EP (20203484.9) 2020-10-23

[21] **3,196,134**
[13] A1

[51] **Int.Cl. A61K 8/00 (2006.01) A61K 9/00 (2006.01) A61K 47/00 (2006.01) A61P 17/00 (2006.01) A61Q 19/00 (2006.01) C07F 9/117 (2006.01)**

[25] EN

[54] **VITAMIN D3 PHOSPHATE AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF, PHARMACEUTICAL COMPOSITIONS COMPRISING THE COMPOUND AND METHODS FOR PREPARING THE COMPOUND**

[54] **VITAMINE D3 PHOSPHATE ET SES SELS PHARMACEUTIQUEMENT ACCEPTABLES, COMPOSITIONS PHARMACEUTIQUES COMPRENANT LE COMPOSE ET PROCEDES DE PREPARATION DU COMPOSE**

[72] JONES, STUART ALLEN, GB

[72] KAWASHITA, MAKIKO, GB

[71] KING'S COLLEGE, LONDON, GB

[85] 2023-04-18

[86] 2021-10-20 (PCT/GB2021/052702)

[87] (WO2022/084669)

[30] GB (2016614.6) 2020-10-20

[21] **3,196,136**
[13] A1

[51] **Int.Cl. G06Q 50/02 (2012.01) G16Y 10/05 (2020.01)**

[25] EN

[54] **ADVANCED CROP MANAGER FOR CROPS STRESS MITIGATION**

[54] **GESTIONNAIRE DE CULTURE AVANCE DESTINE A L'ATTENUATION DES ATTEINTES SUBIES PAR LES CULTURES**

[72] TOJO SOLER, CECILIA M., CA

[72] XIA, SUMMER, CA

[72] GELCER, EDUARDO, CA

[71] FARMERS EDGE INC., CA

[85] 2023-04-18

[86] 2021-11-01 (PCT/CA2021/051541)

[87] (WO2022/094698)

[30] US (63/110,077) 2020-11-05

Demandes PCT entrant en phase nationale

[21] **3,196,137**
[13] A1

[51] **Int.Cl. B23Q 17/24 (2006.01) B25F 5/00 (2006.01) G05B 19/418 (2006.01)**

[25] EN

[54] **SMART TOOL WITH INTEGRATED NEURAL NETWORK IMAGE ANALYSIS**

[54] **OUTIL INTELLIGENT AVEC ANALYSE D'IMAGE DE RESEAU NEURONAL INTEGREE**

[72] KERWIN, KEVIN RICHARD, US

[71] K2AI, LLC, US

[85] 2023-04-18

[86] 2021-08-25 (PCT/US2021/047507)

[87] (WO2022/086626)

[30] US (63/093,613) 2020-10-19

[21] **3,196,141**
[13] A1

[51] **Int.Cl. B66F 3/22 (2006.01) B66F 3/08 (2006.01) B66F 3/12 (2006.01) B66F 3/36 (2006.01)**

[25] EN

[54] **LIFTING AND SUPPORT APPARATUS**

[54] **APPAREIL DE LEVAGE ET DE SUPPORT**

[72] KNIGHT, STEPHEN J. III, US

[71] KNIGHT, STEPHEN J. III, US

[85] 2023-04-18

[86] 2022-01-07 (PCT/US2022/011522)

[87] (WO2022/150531)

[30] US (63/135,971) 2021-01-11

[21] **3,196,144**
[13] A1

[51] **Int.Cl. G21F 5/06 (2006.01) A61J 1/20 (2006.01) A61M 36/08 (2006.01)**

[25] EN

[54] **CONTAINER FILLING SYSTEM FOR RADIOACTIVE MATERIALS**

[54] **SYSTEME DE REMPLISSAGE DE RECIPIENT POUR MATIERES RADIOACTIVES**

[72] BAIDA, CHADI, CA

[72] SIEWKO, DOMINIC, US

[71] JUBILANT DRAXIMAGE INC., CA

[85] 2023-04-18

[86] 2022-01-04 (PCT/IB2022/050044)

[87] (WO2022/149063)

[30] US (63/133,966) 2021-01-05

[21] **3,196,138**
[13] A1

[51] **Int.Cl. A24F 40/46 (2020.01)**

[25] EN

[54] **A VAPOUR GENERATING SYSTEM**

[54] **SYSTEME DE GENERATION DE VAPEUR**

[72] VOERMAN, DICK PAUL, NL

[72] HUPKES, ERNST, NL

[72] FREIE, DENNIS, NL

[71] JT INTERNATIONAL SA, CH

[85] 2023-04-18

[86] 2021-10-15 (PCT/EP2021/078648)

[87] (WO2022/084189)

[30] EP (20203486.4) 2020-10-23

[21] **3,196,142**
[13] A1

[51] **Int.Cl. G06Q 10/00 (2023.01) G06Q 10/06 (2023.01) G06Q 10/10 (2023.01)**

[25] EN

[54] **SMART SYSTEM FOR ADAPTING AND ENFORCING PROCESSES**

[54] **SYSTEME INTELLIGENT POUR ADAPTER ET APPLIQUER DES PROCEDES**

[72] KERWIN, KEVIN RICHARD, US

[71] K2AI, LLC, US

[85] 2023-04-18

[86] 2021-08-25 (PCT/US2021/047513)

[87] (WO2022/086627)

[30] US (63/093,628) 2020-10-19

[21] **3,196,145**
[13] A1

[51] **Int.Cl. A61P 17/00 (2006.01) A61P 27/02 (2006.01) C07D 413/14 (2006.01)**

[25] EN

[54] **COMPOUNDS AND METHODS FOR THE TREATMENT OF OCULAR DISORDERS**

[54] **COMPOSES ET PROCEDES POUR LE TRAITEMENT DE TROUBLES OCULAIRES**

[72] HOLMES, IAN, AU

[72] ALSTER, YAIR, IL

[72] BARASH, HILA, IL

[72] BOSWORTH, CHARLES, IL

[72] RAFAELI, OMER, IL

[72] BURK, ROBERT M., IL

[72] GLEESON, MARC, AU

[72] STEWART, MARK RICHARD, GB

[72] DUNN, JONATHAN, GB

[72] NICHOLLS, ALEXANDER JAMES, GB

[71] AZURA OPHTHALMICS LTD., IL

[85] 2023-04-18

[86] 2021-10-20 (PCT/IB2021/000707)

[87] (WO2022/084738)

[30] US (63/094,793) 2020-10-21

[30] US (63/170,988) 2021-04-05

[21] **3,196,139**
[13] A1

[51] **Int.Cl. A01K 11/00 (2006.01) A01K 29/00 (2006.01) C08J 11/06 (2006.01) C08L 29/04 (2006.01) G09F 3/02 (2006.01)**

[25] EN

[54] **IDENTIFICATION AND TRACKING DEVICES**

[54] **DISPOSITIFS D'IDENTIFICATION ET DE SUIVI**

[72] BURTON, ELLERY ROSS, CA

[71] 13104133 CANADA LIMITED, CA

[85] 2023-04-18

[86] 2021-10-20 (PCT/CA2021/051476)

[87] (WO2022/082307)

[30] US (63/094,065) 2020-10-20

[21] **3,196,143**
[13] A1

[51] **Int.Cl. B60D 1/06 (2006.01) B60D 1/01 (2006.01) B60D 1/46 (2006.01) B60S 9/12 (2006.01) B62D 53/08 (2006.01)**

[25] EN

[54] **TELESCOUPLER**

[54] **TELECOUPLEUR**

[72] VEGA, VALENTINE, US

[71] ROADCLIPPER ENTERPRISES, INC. D/B/A DIAMOND C TRAILERS, US

[85] 2023-04-18

[86] 2021-11-10 (PCT/US2021/058736)

[87] (WO2022/108799)

[30] US (16/953,246) 2020-11-19

PCT Applications Entering the National Phase

[21] **3,196,146**
[13] A1

[51] **Int.Cl. A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61P 27/02 (2006.01) C07D 217/02 (2006.01) C07D 217/04 (2006.01) C07D 405/06 (2006.01)**

[25] EN

[54] **COMPOUNDS AND METHODS FOR THE TREATMENT OF OCULAR DISORDERS**

[54] **COMPOSES ET PROCEDES POUR LE TRAITEMENT DE TROUBLES OCULAIRES**

[72] BOSWORTH, CHARLES, IL
[72] STEWART, MARK RICHARD, GB
[72] BARASH, HILA, IL
[72] CHAPMAN, NICHOLAS ANDREW, GB
[72] BURK, ROBERT M., IL
[72] HOLMES, IAN, AU
[72] GLEESON, MARC, AU
[72] ALSTER, YAIR, IL
[72] RAFAELI, OMER, IL
[72] DUNN, JONATHAN, GB
[71] AZURA OPHTHALMICS LTD., IL
[85] 2023-04-18
[86] 2021-10-20 (PCT/IB2021/000708)
[87] (WO2022/084739)
[30] US (63/094,808) 2020-10-21

[21] **3,196,147**
[13] A1

[51] **Int.Cl. A61M 25/09 (2006.01)**

[25] EN

[54] **GUIDEWIRE SAFETY DEVICE**

[54] **DISPOSITIF DE SECURITE DE FIL-GUIDE**

[72] FISHER, MICHAEL, GB
[72] LICENCE, ADAM, GB
[72] HINDMARSH, ANDREW, GB
[72] LICENCE, SEAN, GB
[72] JOHNSTON, ANDREW JAMES, GB
[71] JEB TECHNOLOGIES LIMITED, GB
[71] HINDMARSH, ANDREW, GB
[71] JOHNSTON, ANDREW JAMES, GB
[85] 2023-04-18
[86] 2021-10-29 (PCT/GB2021/052819)
[87] (WO2022/090736)
[30] GB (2017155.9) 2020-10-29

[21] **3,196,148**
[13] A1

[51] **Int.Cl. B60T 1/10 (2006.01) B60T 10/04 (2006.01) F16D 57/06 (2006.01)**

[25] EN

[54] **A BRAKING SYSTEM**

[54] **SYSTEME DE FREINAGE**

[72] NELMS, CHARAN, GB
[71] BABA GOLINATH FOUNDATION, MU
[71] NELMS, CHARAN, GB
[85] 2023-04-18
[86] 2021-10-18 (PCT/EP2021/078807)
[87] (WO2022/084247)
[30] GB (2016583.3) 2020-10-19

[21] **3,196,149**
[13] A1

[51] **Int.Cl. B60T 1/02 (2006.01) B60T 1/06 (2006.01) B60T 1/10 (2006.01) B60T 10/04 (2006.01) F16D 57/06 (2006.01)**

[25] EN

[54] **A BRAKING SYSTEM**

[54] **SYSTEME DE FREINAGE**

[72] NELMS, CHARAN, GB
[71] BABA GOLINATH FOUNDATION, MU
[71] NELMS, CHARAN, GB
[85] 2023-04-18
[86] 2021-10-18 (PCT/EP2021/078811)
[87] (WO2022/084249)
[30] GB (2016583.3) 2020-10-19
[30] GB (2016582.5) 2020-10-19
[30] GB (2108678.0) 2021-06-17

[21] **3,196,150**
[13] A1

[51] **Int.Cl. B60T 1/02 (2006.01) B60T 1/06 (2006.01) B60T 1/093 (2006.01) B60T 1/10 (2006.01) B60T 10/04 (2006.01) F16D 57/06 (2006.01)**

[25] EN

[54] **A BRAKING SYSTEM**

[54] **SYSTEME DE FREINAGE**

[72] NELMS, CHARAN, GB
[71] BABA GOLINATH FOUNDATION, MU
[71] NELMS, CHARAN, GB
[85] 2023-04-18
[86] 2021-10-18 (PCT/EP2021/078808)
[87] (WO2022/084248)
[30] GB (2016582.5) 2020-10-19
[30] GB (2016583.3) 2020-10-19

[21] **3,196,166**
[13] A1

[51] **Int.Cl. C08G 75/30 (2006.01) H01M 10/0565 (2010.01)**

[25] FR

[54] **CONDUCTIVE SULFAMIDE POLYMERS, USE THEREOF IN BATTERIES AND METHOD FOR PRODUCING SAME**

[54] **POLYMERES DE SULFAMIDES CONDUCTEURS, LEUR UTILISATION DANS DES BATTERIES ET PROCEDE DE FABRICATION DE CEUX-CI**

[72] DAIGLE, JEAN-CHRISTOPHE, CA
[72] LAROCHE, ANNIE-PIER, CA
[72] ROCHON, SYLVIANE, CA
[72] KRACHKOVSKIY, SERGEY, CA
[72] BARRAY, FRANCIS, CA
[72] HAMEL-PAQUET, JULIE, CA
[71] HYDRO-QUEBEC, CA
[85] 2023-04-19
[86] 2021-12-14 (PCT/CA2021/051796)
[87] (WO2022/126251)
[30] US (63/126,369) 2020-12-16

[21] **3,196,167**
[13] A1

[51] **Int.Cl. A61K 31/045 (2006.01) A61K 31/435 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01)**

[25] EN

[54] **BETA ADRENERGIC AGONIST AND METHODS OF USING THE SAME**

[54] **AGONISTE BETA-ADRENERGIQUE ET PROCEDES D'UTILISATION ASSOCIES**

[72] YU, JIAXIN, US
[72] CARTER, DAVID SCOTT, US
[72] FORD, ANTHONY P., US
[72] CHEN, WEI, US
[71] CURASEN THERAPEUTICS, INC., US
[85] 2023-04-19
[86] 2021-11-18 (PCT/US2021/059957)
[87] (WO2022/109179)
[30] US (63/116,025) 2020-11-19

Demandes PCT entrant en phase nationale

[21] **3,196,168**
[13] A1

[51] **Int.Cl. C08G 8/24 (2006.01) B01D 15/38 (2006.01) C08G 16/02 (2006.01) C22B 60/02 (2006.01)**

[25] EN

[54] **NOVEL FORMO-PHENOLIC RESINS, METHOD FOR THE PREPARATION THEREOF, AND USE OF SAME IN THE EXTRACTION OF URANIUM FROM WATER**

[54] **NOUVELLES RESINES FORMO-PHENOLIQUES, LEUR PROCEDE DE PREPARATION, ET LEUR UTILISATION DANS L'EXTRACTION DE L'URANIUM DE L'EAU**

[72] PELLET-ROSTAING, STEPHANE, FR
[72] ARRACHART, GUILHEM, FR
[72] MOSSAND, GUILLAUME, FR
[72] LEYDIER, ANTOINE, FR

[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR

[71] UNIVERSITE DE MONTPELLIER (UM), FR

[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES (CEA), FR

[71] ECOLE NATIONALE SUPERIEURE DE CHIMIE DE MONTPELLIER (ENSCM), FR

[85] 2023-04-19
[86] 2021-10-26 (PCT/EP2021/079703)
[87] (WO2022/090242)
[30] FR (FR2010967) 2020-10-26

[21] **3,196,169**
[13] A1

[51] **Int.Cl. G08B 5/00 (2006.01) G08G 1/095 (2006.01)**

[25] EN

[54] **TRAFFIC ALERT DEVICES AND METHODS OF USING THE SAME**

[54] **DISPOSITIFS D'ALERTE DE TRAFIC ET LEURS PROCEDES D'UTILISATION**

[72] WIEGEL, AARON J., US
[72] SWIFT, DAVID, US
[72] WERNECKE, GARRET, US
[72] DONDLINGER, JASON, US
[72] KORMAN, JOE, US
[72] PARUCH, LUCAS I., US
[72] DWYER, MATTHEW R., US
[72] DUESING, TONY, US
[72] LIGHTBODY, JOHN, US
[72] RUNBECK, EMILY C., US

[71] RITE-HITE HOLDING CORPORATION, US

[85] 2023-04-19
[86] 2021-10-28 (PCT/US2021/057127)
[87] (WO2022/094136)
[30] US (63/106,708) 2020-10-28

[21] **3,196,170**
[13] A1

[51] **Int.Cl. G01N 15/02 (2006.01) G01N 15/06 (2006.01) G01N 33/00 (2006.01)**

[25] EN

[54] **WIRELESS EXPOSURE MONITOR**

[54] **APPAREIL DE SURVEILLANCE D'EXPOSITION SANS FIL**

[72] CHADHA, TANDEEP SINGH, US
[72] FANG, JIAXI, US
[72] BISWAS, PRATIM, US

[71] APPLIED PARTICLE TECHNOLOGY, INC., US

[85] 2023-04-19
[86] 2021-10-19 (PCT/US2021/055659)
[87] (WO2022/086999)
[30] US (16/949,220) 2020-10-20

[21] **3,196,171**
[13] A1

[51] **Int.Cl. B64F 5/40 (2017.01) B64C 25/60 (2006.01)**

[25] EN

[54] **GAS DISSOLUTION PREDICTION SYSTEM AND METHOD FOR AN AIRCRAFT SHOCK STRUT**

[54] **SYSTEME ET PROCEDE DE PREDICTION DE DISSOLUTION DE GAZ POUR UN AMORTISSEUR D'AERONEF**

[72] SCHMIDT, ROBERT KYLE, CA
[72] SMITH, JON, GB

[71] SAFRAN LANDING SYSTEMS CANADA INC, CA

[71] SAFRAN LANDING SYSTEMS UK LTD, GB

[85] 2023-04-19
[86] 2021-10-19 (PCT/CA2021/051466)
[87] (WO2022/087717)
[30] US (17/081,302) 2020-10-27

[21] **3,196,173**
[13] A1

[51] **Int.Cl. A61B 5/1486 (2006.01)**

[25] EN

[54] **FLUX-LIMITING POLYMER MEMBRANE**

[54] **MEMBRANE POLYMERE DE LIMITATION DE FLUX**

[72] STECK, ALEXANDER, DE

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

[85] 2023-04-19
[86] 2021-11-18 (PCT/EP2021/082059)
[87] (WO2022/106502)
[30] EP (20208847.2) 2020-11-20

[21] **3,196,175**
[13] A1

[51] **Int.Cl. G02B 3/00 (2006.01) G02B 23/00 (2006.01) H04N 3/14 (2006.01)**

[25] EN

[54] **SATELLITE IMAGE SENSOR AND METHOD**

[54] **CAPTEUR D'IMAGE SATELLITE ET PROCEDE**

[72] WILLIAMS, FRANKLIN, US

[71] LIVE EARTH IMAGING ENTERPRISES LLC, US

[85] 2023-04-19
[86] 2021-10-25 (PCT/GB2021/052767)
[87] (WO2022/084701)
[30] US (16/974,156) 2020-10-23
[30] US (17/300,019) 2021-02-08

PCT Applications Entering the National Phase

[21] **3,196,177**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/168 (2006.01) A61M 39/12 (2006.01) A61M 39/28 (2006.01) F04B 43/08 (2006.01) F04B 43/12 (2006.01)**

[25] EN

[54] **CONTROLLABLE PUMPING TUBING**

[54] **TUBE DE POMPAGE POUVANT ETRE COMMANDE**

[72] MENG, FANQING, US

[72] SHEVGOOR, SIDDARTH K., US

[72] WEIMER, MARC WILLIAM, US

[71] CAREFUSION 303, INC., US

[85] 2023-04-19

[86] 2021-10-22 (PCT/US2021/056294)

[87] (WO2022/098521)

[30] US (63/110,179) 2020-11-05

[21] **3,196,178**
[13] A1

[51] **Int.Cl. B32B 1/02 (2006.01) B32B 29/06 (2006.01)**

[25] EN

[54] **CELLULOSE BASED MULTILAYER PACKAGING WITH BARRIER PROPERTIES FOR 3D-OBJECTS**

[54] **EMBALLAGE MULTICOUCHE A BASE DE CELLULOSE AYANT DES PROPRIETES DE BARRIERE POUR DES OBJETS 3D**

[72] BRAS, JULIEN, FR

[72] CHARDOT, JULIA, FR

[72] MISSOUM, KARIM, CH

[72] MOUREN, AGATHE, FR

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

[85] 2023-04-19

[86] 2021-11-17 (PCT/EP2021/081979)

[87] (WO2022/106465)

[30] EP (20208960.3) 2020-11-20

[21] **3,196,181**
[13] A1

[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/36 (2006.01) A61K 8/41 (2006.01) A61K 8/42 (2006.01) A61K 8/60 (2006.01) A61K 8/68 (2006.01)**

[25] EN

[54] **TOPICAL SANITISING COMPOSITION COMPRISING MINIMAL AMOUNTS OF AN ANITMICROBIAL LIPID**

[54] **COMPOSITION D'ASSAINISSEMENT TOPIQUE CONTENANT DES QUANTITES MINIMALES D'UN LIPIDE ANITMICROBIEN**

[72] GHOSH, RIMPA, IN

[72] MAJUMDAR, AMITABHA, IN

[72] MALLEMALA, PRATHYUSHA, IN

[72] WASKAR, MORRIS, IN

[71] UNILEVER GLOBAL IP LIMITED, GB

[85] 2023-04-19

[86] 2021-11-29 (PCT/EP2021/083408)

[87] (WO2022/117514)

[30] IN (202021052554) 2020-12-02

[30] EP (21152232.1) 2021-01-19

[21] **3,196,182**
[13] A1

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

[25] EN

[54] **HYDRAULIC DELIVERY OF SURGICAL IMPLANTS**

[54] **ADMINISTRATION HYDRAULIQUE D'IMPLANTS CHIRURGICAUX**

[72] TABER, TODD, US

[72] JENSEN, KATHRYN, US

[72] LEE, IV JESTWIN EDWIN, US

[72] MAGADUM, PRADEEP, US

[72] YADAV, SAUMYA DILIP, US

[71] ALCON INC., CH

[85] 2023-04-19

[86] 2021-06-01 (PCT/IB2021/054814)

[87] (WO2022/101690)

[30] US (63/112,692) 2020-11-12

[21] **3,196,183**
[13] A1

[51] **Int.Cl. B01J 39/18 (2017.01) B01D 71/38 (2006.01)**

[25] EN

[54] **IONIC POLYMERS AND COPOLYMERS**

[54] **POLYMERES ET COPOLYMERES IONIQUES**

[72] WANG, LIHUI, US

[72] HUO, ZIYANG, US

[72] SHEN, CHENGTIAN, US

[71] TWELVE BENEFIT CORPORATION, US

[85] 2023-04-19

[86] 2021-10-20 (PCT/US2021/055902)

[87] (WO2022/087169)

[30] US (63/093,791) 2020-10-20

[21] **3,196,184**
[13] A1

[51] **Int.Cl. C01B 3/32 (2006.01) C07C 5/05 (2006.01) C07C 7/12 (2006.01) F25J 3/00 (2006.01)**

[25] EN

[54] **PROCESS COMPOSITION ANALYSIS VIA ONLINE MASS SPECTROMETRY**

[54] **ANALYSE DE COMPOSITION DE PROCEDE PAR SPECTROMETRIE DE MASSE EN LIGNE**

[72] HOME, MICHAEL A., US

[71] CONOCOPHILLIPS COMPANY, US

[85] 2023-04-19

[86] 2021-10-19 (PCT/US2021/055673)

[87] (WO2022/087010)

[30] US (63/093,624) 2020-10-19

[30] US (63/222,739) 2021-07-16

[21] **3,196,186**
[13] A1

[51] **Int.Cl. A61B 5/05 (2021.01)**

[25] EN

[54] **AUTOMATIC SEGMENTATION AND REGISTRATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE AUTOMATIQUES DE SEGMENTATION ET D'ENREGISTREMENT**

[72] BLACK, JOHN, US

[71] MEDIVIEW XR, INC., US

[85] 2023-04-19

[86] 2021-10-20 (PCT/US2021/055754)

[87] (WO2022/087070)

[30] US (63/093,904) 2020-10-20

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[21] **3,196,187**
[13] A1

[51] **Int.Cl. C08J 5/06 (2006.01) C08K 3/013 (2018.01) C08K 7/02 (2006.01) D21C 1/10 (2006.01)**

[25] EN

[54] **PROCESS FOR PRODUCTION OF CELLULOSE PARTICLES**

[54] **PROCEDE DE PRODUCTION DE PARTICULES DE CELLULOSE**

[72] LI, HONGBO, CA

[72] TON-THAT, MINH-TAN, CA

[72] PATENAUDE, ERIC, CA

[72] STOEFFLER, KAREN, CA

[72] PANDE, HARSHAD, CA

[72] SANAEI, SHABNAM, CA

[72] MARCOCCIA, BRUNO, CA

[71] NATIONAL RESEARCH COUNCIL CANADA, CA

[71] DOMTAR INC., CA

[85] 2023-04-19

[86] 2021-10-15 (PCT/CA2021/051450)

[87] (WO2022/082298)

[30] US (63/094,456) 2020-10-21

[21] **3,196,188**
[13] A1

[51] **Int.Cl. A44B 19/32 (2006.01)**

[25] EN

[54] **SLIDE FASTENER SEALING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES D'ETANCHEITE DE FERMETURE A GLISSIERE**

[72] MYERSCOUGH, RICHARD KERR, US

[72] HARRINGTON, ROSS DAVIS, US

[71] YKK (U.S.A.) INC., US

[85] 2023-04-19

[86] 2022-01-14 (PCT/US2022/012474)

[87] (WO2022/169577)

[30] US (63/145,087) 2021-02-03

[21] **3,196,190**
[13] A1

[51] **Int.Cl. E21B 44/04 (2006.01) E21B 44/06 (2006.01)**

[25] EN

[54] **ARRANGEMENT OF CONTROLLING DRILLING PARAMETERS DURING EXTRACTION OF A DRILL STRING**

[54] **AGENCEMENT DE COMMANDE DE PARAMETRES DE FORAGE PENDANT UNE EXTRACTION D'UN TRAIN DE TIGES DE FORAGE**

[72] MORTZELL, GUSTAV, SE

[72] OLSSON, MAGNUS, SE

[71] EPIROC ROCK DRILLS AKTIEBOLAG, SE

[85] 2023-04-19

[86] 2021-11-01 (PCT/SE2021/051089)

[87] (WO2022/115016)

[30] SE (2051380-0) 2020-11-27

[21] **3,196,192**
[13] A1

[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/36 (2006.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61Q 19/10 (2006.01) C11D 1/12 (2006.01) C11D 1/90 (2006.01) C11D 1/92 (2006.01) C11D 9/02 (2006.01) C11D 10/04 (2006.01)**

[25] EN

[54] **CLEANSING COMPOSITIONS COMPRISING A FATTY ACID AND SOAP MIXTURE AND METHOD FOR MAKING A CLEANSING BAR COMPRISING SAID MIXTURE**

[54] **COMPOSITIONS NETTOYANTES COMPRENANT UN ACIDE GRAS ET UN MELANGE DE SAVON ET METHODE DE FABRICATION D'UN PAIN NETTOYANT COMPRENANT LEDIT MELANGE**

[72] CLARKE, MICHAEL GERARD, US

[72] SPENCER, ELIZABETH JOY, US

[72] FARRELL, TERENCE JAMES, US

[71] UNILEVER GLOBAL IP LIMITED, GB

[85] 2023-04-19

[86] 2021-10-19 (PCT/EP2021/078917)

[87] (WO2022/096257)

[30] EP (20206522.3) 2020-11-09

[21] **3,196,194**
[13] A1

[51] **Int.Cl. F16L 21/04 (2006.01)**

[25] EN

[54] **PIPE JOINT, GLAND, AND METHOD FOR JOINING PIPES**

[54] **JOINT DE TUYAU ET PROCEDE POUR ASSEMBLER UN ANNEAU DE PRESSION ET UN TUYAU**

[72] TANAKA, RYUNOSUKE, JP

[72] ODA, KEITA, JP

[72] KISHI, SHOZO, JP

[71] KUBOTA CORPORATION, JP

[85] 2023-04-19

[86] 2021-10-29 (PCT/JP2021/040119)

[87] (WO2022/097585)

[30] JP (2020-185472) 2020-11-06

[21] **3,196,195**
[13] A1

[51] **Int.Cl. A61K 31/7105 (2006.01) A61K 38/17 (2006.01) A61P 11/00 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/16 (2006.01) A61P 31/20 (2006.01) A61P 31/22 (2006.01) C07K 14/57 (2006.01)**

[25] EN

[54] **USE OF IFN-LAMBDA MRNA FOR TREATING VIRAL INFECTIONS**

[54] **UTILISATION D'ARNM DE L'IFN-LAMBDA POUR LE TRAITEMENT D'INFECTIONS VIRALES**

[72] RUDOLPH, CARSTEN, DE

[72] PLANK, CHRISTIAN, DE

[72] LANGENICKEL, THOMAS, CH

[72] MACHT, ANNA, DE

[72] LOHMER, KRISTIN, DE

[71] ETHRIS GMBH, DE

[85] 2023-04-19

[86] 2021-11-04 (PCT/EP2021/080658)

[87] (WO2022/096582)

[30] EP (20205674.3) 2020-11-04

PCT Applications Entering the National Phase

[21] **3,196,196**
[13] A1

[51] **Int.Cl. A61K 33/24 (2019.01) A61K 39/00 (2006.01) A61K 41/00 (2020.01) A61N 5/10 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **COMPOSITIONS OF NANOPARTICLES FOR TREATMENT OF CANCER**

[54] **COMPOSITIONS DE NANOPARTICULES POUR LE TRAITEMENT DU CANCER**

[72] BORGHI, ELSA, FR

[72] JAMESON, KATHERINE, US

[71] NANOBIO TIX, FR

[85] 2023-04-19

[86] 2021-10-22 (PCT/EP2021/079399)

[87] (WO2022/096291)

[30] EP (20306326.8) 2020-11-05

[21] **3,196,197**
[13] A1

[51] **Int.Cl. B65H 18/02 (2006.01) B65H 18/26 (2006.01)**

[25] EN

[54] **A METHOD AND A MACHINE FOR WINDING A WEB ONTO SPOOLS TO FORM A SUCCESSION OF WEB REELS**

[54] **PROCEDE ET MACHINE PERMETTANT D'ENROULER UNE BANDE SUR DES BOBINES POUR FORMER UNE SUCCESSION DE DEVIDOIRS DE BANDE**

[72] BARTOLINI, FABRIZIO, IT

[72] CAPITANI, MARCO, IT

[71] VALMET AB, SE

[85] 2023-04-19

[86] 2021-11-18 (PCT/EP2021/082088)

[87] (WO2022/128305)

[30] SE (2051451-9) 2020-12-14

[21] **3,196,198**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01)**

[25] EN

[54] **TREATMENT OF CANCER**

[54] **TRAITEMENT DU CANCER**

[72] KRAIEM, MANEL, FR

[72] CHANTEUX, STEPHANIE, FR

[72] ROSSI, BENJAMIN, FR

[71] INNATE PHARMA, S.A., FR

[85] 2023-04-19

[86] 2021-11-24 (PCT/EP2021/082872)

[87] (WO2022/112356)

[30] US (63/118,198) 2020-11-25

[30] US (63/229,589) 2021-08-05

[21] **3,196,199**
[13] A1

[51] **Int.Cl. C08J 11/04 (2006.01) C08L 23/12 (2006.01)**

[25] EN

[54] **POLYOLEFIN COMPOSITION COMPRISING POLYPROPYLENE HOMOPOLYMER AND RECYCLED PLASTIC MATERIAL**

[54] **COMPOSITION DE POLYOLEFINE COMPRENANT UN HOMOPOLYMERE DE POLYPROPYLENE ET UNE MATIERE PLASTIQUE RECYCLEE**

[72] KAHLER, SUSANNE MARGARETE, AT

[72] LEGRAS, ANGELICA MAELLE DELPHINE, AT

[72] BRAUN, HERMANN, AT

[72] JERABEK, MICHAEL, AT

[72] STOCKREITER, WOLFGANG, AT

[72] KASTNER, ERWIN, AT

[71] BOREALIS AG, AT

[85] 2023-04-19

[86] 2021-10-18 (PCT/EP2021/078781)

[87] (WO2022/084236)

[30] EP (20202544.1) 2020-10-19

[21] **3,196,200**
[13] A1

[51] **Int.Cl. A22C 21/00 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PROCESSING POULTRY CARCASSES**

[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT DE CARCASSES DE VOLAILLE**

[72] VEEN, TIM ANDRIES, NL

[72] ZEEN, JACOBUS, NL

[71] BAADER POULTRY HOLDING GMBH, DE

[85] 2023-04-19

[86] 2020-10-19 (PCT/EP2020/079395)

[87] (WO2022/083847)

[21] **3,196,201**
[13] A1

[51] **Int.Cl. C25B 1/04 (2021.01) C25B 9/23 (2021.01) C25B 9/65 (2021.01)**

[25] EN

[54] **APPARATUS FOR THE ELECTROLYTIC PRODUCTION OF HYDROGEN**

[54] **APPAREIL POUR LA PRODUCTION ELECTROLYTIQUE D'HYDROGENE**

[72] CUARTERO GARCIA-MORATO, RICARDO, CH

[71] WS SLOT SA, CH

[85] 2023-04-19

[86] 2021-11-15 (PCT/IB2021/060544)

[87] (WO2022/106975)

[30] EP (20208730.0) 2020-11-19

[21] **3,196,202**
[13] A1

[51] **Int.Cl. B65D 85/804 (2006.01)**

[25] EN

[54] **COMPOSTABLE BEVERAGE CONTAINER**

[54] **CONTENANT DE BOISSON COMPOSTABLE**

[72] HEYDEL, CHRISTOPHE SEBASTIEN PAUL, CH

[72] GIRARDIN, PASCAL, CH

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

[85] 2023-04-19

[86] 2021-10-01 (PCT/EP2021/077158)

[87] (WO2022/089876)

[30] EP (20204101.8) 2020-10-27

[21] **3,196,203**
[13] A1

[51] **Int.Cl. A63B 21/075 (2006.01)**

[25] EN

[54] **CONFIGURATION APPLIED TO A CABLE BAR FOR EXERCISE**

[54] **CONFIGURATION APPLIQUEE A UNE BARRE A CABLES POUR EXERCICE**

[72] FILONZI, DAVID, AU

[72] RODRIGUES GIANNOCARO, BRUNO, BR

[71] FUNCTIONAL PATTERNS HOLDINGS, LLC, US

[85] 2023-04-19

[86] 2020-10-19 (PCT/BR2020/050423)

[87] (WO2022/082276)

Demandes PCT entrant en phase nationale

[21] **3,196,204**
[13] A1

[51] **Int.Cl. A01N 1/02 (2006.01) A61F 2/00 (2006.01)**

[25] EN

[54] **PACKAGING SYSTEM FOR A MEDICAL PRODUCT**

[54] **SYSTEME DE CONDITIONNEMENT D'UN PRODUIT MEDICAL**

[72] ROMOT, BRIAN, US

[72] DEUERLING, JUSTIN, US

[72] SLADE, CRISTINA, US

[72] KABRA, SHASHANK, US

[72] SEVERIN, JANE, US

[71] AXOGEN CORPORATION, US

[85] 2023-04-19

[86] 2021-10-20 (PCT/US2021/055713)

[87] (WO2022/103557)

[30] US (63/111,901) 2020-11-10

[30] US (17/504,694) 2021-10-19

[21] **3,196,205**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12N 15/115 (2010.01) C12N 15/10 (2006.01)**

[25] EN

[54] **REVERSE TRANSCRIPTION OF POLYNUCLEOTIDES COMPRISING UNNATURAL NUCLEOTIDES**

[54] **TRANSCRIPTION INVERSE DE POLYNUCLEOTIDES COMPRENANT DES NUCLEOTIDES NON NATURELS**

[72] ROMESBERG, FLOYD E., US

[72] DONG, XIYU, US

[72] ZHOU, ANNE XIAOZHOU, US

[71] THE SCRIPPS RESEARCH INSTITUTE, US

[71] SYNTHORX, INC., US

[85] 2023-04-19

[86] 2021-10-22 (PCT/US2021/056334)

[87] (WO2022/087475)

[30] US (63/104,785) 2020-10-23

[21] **3,196,206**
[13] A1

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

[25] EN

[54] **DIRECTIONAL AND SCALABLE ELECTRODE ARRAY**

[54] **RESEAU D'ELECTRODES DIRECTIONNEL ET EVOLUTIF**

[72] SEYMOUR, JOHN P., US

[72] TANDON, NITIN, US

[71] BOARD OF REGENTS - THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2023-04-19

[86] 2021-10-26 (PCT/US2021/056661)

[87] (WO2022/093829)

[30] US (63/105,403) 2020-10-26

[21] **3,196,207**
[13] A1

[51] **Int.Cl. G01N 35/00 (2006.01) G01T 7/02 (2006.01)**

[25] EN

[54] **DEVICES, SYSTEMS, AND METHODS FOR MEASURING RADIOACTIVE ISOTOPE PRODUCTION IN BULK**

[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE MESURE DE LA PRODUCTION D'ISOTOPES RADIOACTIFS DANS UNE GRANDE QUANTITE**

[72] CHEN, JIANWEI, US

[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US

[85] 2023-04-19

[86] 2021-10-20 (PCT/US2021/071940)

[87] (WO2022/087595)

[30] US (17/076,500) 2020-10-21

[21] **3,196,208**
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/00 (2006.01) A61B 18/12 (2006.01)**

[25] EN

[54] **BRAIDED OR WOVEN ELECTRODES**

[54] **ELECTRODES TRESSEES OU TISSEES**

[72] TUROVSKIY, ROMAN, US

[72] CONNOLLY, RICHARD J., US

[71] PULSE BIOSCIENCES, INC., US

[85] 2023-04-19

[86] 2021-11-22 (PCT/US2021/060408)

[87] (WO2022/109431)

[30] US (63/117,433) 2020-11-23

[21] **3,196,209**
[13] A1

[51] **Int.Cl. B05C 7/04 (2006.01) B01J 37/02 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR COATING SUBSTRATES WITH WASHCOATS**

[54] **APPAREIL ET PROCEDE DE REVETEMENT DE SUBSTRATS AVEC DES COUCHES D'IMPREGNATION**

[72] MURUYANDY, KUMARASEN, MY

[71] JOHNSON MATTHEY PUBLIC LIMITED COMPANY, GB

[85] 2023-04-19

[86] 2021-12-03 (PCT/GB2021/053158)

[87] (WO2022/136824)

[30] US (63/199,393) 2020-12-23

[21] **3,196,210**
[13] A1

[51] **Int.Cl. A61K 31/4985 (2006.01) A61K 31/499 (2006.01) A61K 31/5377 (2006.01)**

[25] EN

[54] **ANTICANCER COMPOUNDS SELECTIVE FOR ER-POSITIVE CANCERS**

[54] **COMPOSES ANTICANCEREUX SELECTIFS POUR DES CANCERS ER-POSITIFS**

[72] HERGENROTHER, PAUL J., US

[72] BOUDREAU, MATTHEW, US

[71] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US

[85] 2023-04-19

[86] 2021-10-21 (PCT/US2021/056003)

[87] (WO2022/087234)

[30] US (63/104,933) 2020-10-23

PCT Applications Entering the National Phase

[21] **3,196,211**
[13] A1

[51] **Int.Cl. B23K 20/08 (2006.01) B23K 20/12 (2006.01) B23K 20/22 (2006.01) F16L 13/007 (2006.01) F16L 13/08 (2006.01) F16L 13/16 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR ADDITIVE FRICTION STIR MANUFACTURED TRANSITION JOINT**

[54] **PROCEDE ET APPAREIL POUR JOINT DE TRANSITION FABRIQUE PAR MALAXAGE PAR FRICTION ADDITIVE**

[72] PROTHE, CURTIS ERWIN, US

[71] DMC GLOBAL INC., US

[85] 2023-04-19

[86] 2021-11-08 (PCT/US2021/058440)

[87] (WO2022/099125)

[30] US (63/110,510) 2020-11-06

[30] US (17/521,438) 2021-11-08

[21] **3,196,212**
[13] A1

[51] **Int.Cl. G06T 11/60 (2006.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND INTERFACES FOR IDENTIFYING COATING SURFACES**

[54] **SYSTEMES, PROCEDES ET INTERFACES D'IDENTIFICATION DE SURFACES DE REVETEMENT**

[72] GROVES, FRANCIS J., US

[72] CHROBAK, KATHLEEN M., US

[72] WRIGHT, WILLIAM R., US

[71] PPG INDUSTRIES OHIO, INC., US

[85] 2023-04-19

[86] 2021-10-12 (PCT/US2021/054580)

[87] (WO2022/098477)

[30] US (63/110,821) 2020-11-06

[21] **3,196,213**
[13] A1

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

[25] EN

[54] **THERMAL PUMP REFRIGERANTS**

[54] **FLUIDES FRIGORIGENES POUR POMPE THERMIQUE**

[72] POOLE, JOHN EDWARD, GB

[72] POWELL, RICHARD LLEWELLYN, GB

[71] RPL HOLDINGS LIMITED, GB

[85] 2023-04-19

[86] 2021-10-21 (PCT/EP2021/079297)

[87] (WO2022/084488)

[30] EP (20203466.6) 2020-10-22

[30] GB (2103406.1) 2021-03-11

[21] **3,196,214**
[13] A1

[51] **Int.Cl. C04B 35/76 (2006.01) C03C 13/06 (2006.01)**

[25] EN

[54] **ULTRA-LOW THERMAL MASS REFRACTORY ARTICLE**

[54] **ARTICLE REFRACTAIRE A MASSE THERMIQUE ULTRA-FAIBLE**

[72] FERNANDES, JR. SERGIO DAVID, US

[72] COSTA, CLAUDEMIR, US

[71] UNIFRAX 1 LLC, US

[85] 2023-04-19

[86] 2021-10-19 (PCT/US2021/071924)

[87] (WO2022/087583)

[30] US (63/094,064) 2020-10-20

[21] **3,196,215**
[13] A1

[51] **Int.Cl. C07C 29/00 (2006.01) C07C 29/132 (2006.01) C07C 51/377 (2006.01)**

[25] EN

[54] **INTEGRATED ETHANOL AND PRETREATMENT FACILITY**

[54] **INSTALLATION INTEGREE D'ETHANOL ET DE PRETRAITEMENT**

[72] KOHL, SCOTT D., US

[72] MOHAMED, RANA K., US

[72] GOSSETT, WADE, US

[71] CHEMTOR, LP, US

[85] 2023-04-19

[86] 2021-10-21 (PCT/US2021/071962)

[87] (WO2022/087614)

[30] US (63/104,354) 2020-10-22

[21] **3,196,216**
[13] A1

[51] **Int.Cl. A61J 1/00 (2023.01) B29C 55/00 (2006.01) C08J 5/18 (2006.01) C08L 67/03 (2006.01)**

[25] EN

[54] **THERMOFORMED PACKAGING AND METHODS OF FORMING THE SAME**

[54] **EMBALLAGE THERMOFORME ET PROCEDES DE FORMATION ASSOCIES**

[72] KAMMAUFF, WADE JACKSON, US

[72] STEWART, SETH THOMAS, US

[72] STAGNARO, CARLOS DANIEL, US

[71] KLOCKNER PENTAPLAST OF AMERICA, INC., US

[85] 2023-04-19

[86] 2021-11-17 (PCT/US2021/059723)

[87] (WO2022/109025)

[30] US (63/115,297) 2020-11-18

[21] **3,196,217**
[13] A1

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/10 (2006.01) A01N 25/22 (2006.01) A01N 25/30 (2006.01) A01N 43/10 (2006.01) A01N 57/20 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **PESTICIDE MICROEMULSION COMPOSITIONS**

[54] **COMPOSITIONS PESTICIDES EN MICROEMULSION**

[72] MERTOGLU, MURAT, DE

[72] NASH, GINA, DE

[71] BASF SE, DE

[85] 2023-04-19

[86] 2021-10-26 (PCT/EP2021/079661)

[87] (WO2022/090214)

[30] EP (20204093.7) 2020-10-27

Demandes PCT entrant en phase nationale

[21] **3,196,218**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/65 (2017.01) C07K 16/28 (2006.01)**

[25] EN

[54] **MEANS AND METHODS FOR PRODUCING ANTIBODY-LINKER CONJUGATES**

[54] **MOYENS ET PROCEDES DE FABRICATION DE CONJUGUES ANTICORPS-LIEUR**

[72] SPYCHER, PHILIPP, CH

[72] PROBST, PHILIPP, CH

[72] ATTINGER-TOLLER, ISABELLA, CH

[72] BERTRAND, ROMAIN, CH

[72] STARK, RAMONA, CH

[72] GRABULOVSKI, DRAGAN, CH

[71] ARARIS BIOTECH AG, CH

[85] 2023-04-19

[86] 2021-10-25 (PCT/EP2021/079560)

[87] (WO2022/084560)

[30] EP (20020492.3) 2020-10-25

[30] EP (20203887.3) 2020-10-26

[21] **3,196,219**
[13] A1

[25] EN

[54] **DE BRUIJN SWITCH**

[54] **INTERRUPTEUR DE DE BRUIJN**

[72] GIMENO-SEGOVIA, MERCEDES, US

[71] PSIQUANTUM, CORP., US

[85] 2023-04-19

[86] 2021-10-21 (PCT/US2021/056089)

[87] (WO2022/087295)

[30] US (63/105,103) 2020-10-23

[30] US (63/143,758) 2021-01-29

[30] US (63/248,955) 2021-09-27

[21] **3,196,220**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR VIDEO CONFERENCING**

[54] **SYSTEMES ET PROCEDES POUR UNE VIDEOCONFERENCE**

[72] GOLDSTEIN, ZACHARY JOHN, US

[72] SWARTZ, JOHN MICHAEL, US

[72] RAVICH, VLADIC VLADIMIR, US

[72] EBRAHIM, SALIMAH YVETTE, US

[72] REDFERN, BRIAN WENDELL, US

[71] MORE THAN A FAN, INC., US

[85] 2023-04-19

[86] 2021-10-19 (PCT/US2021/055615)

[87] (WO2022/086963)

[30] US (63/093,638) 2020-10-19

[21] **3,196,221**
[13] A1

[51] **Int.Cl. A61K 47/55 (2017.01) A61P 37/04 (2006.01)**

[25] EN

[54] **CONJUGATED TLR7 AND NOD2 AGONISTS**

[54] **AGONISTES CONJUGUES DE TLR7 ET DE NOD2**

[72] JAKOPIN, ?IGA, SI

[72] GUZELJ, SAMO, SI

[71] UNIVERZA V LJUBLJANI, SI

[85] 2023-04-19

[86] 2021-10-20 (PCT/EP2021/079141)

[87] (WO2022/084417)

[30] LU (LU102145) 2020-10-21

[21] **3,196,222**
[13] A1

[51] **Int.Cl. A61P 31/04 (2006.01)**

[25] EN

[54] **PROTEOGLYCAN CONJUGATE AND APPLICATION THEREOF**

[54] **CONJUGUE DE PROTEOGLYCANE ET SON APPLICATION**

[72] ZHU, XIANCHAO, CN

[72] CHEN, HUAGEN, CN

[72] XIONG, XISHUANG, CN

[72] LI, YING, CN

[72] WANG, JUANJUAN, CN

[72] LIU, CHANG, CN

[72] XIA, QINGFENG, CN

[72] MAO, YIZHI, CN

[72] WANG, ZHU, CN

[72] SHEN, ENHUA, CN

[71] SHANGHAI REINOVAX BIOLOGICS CO., LTD, CN

[71] SHANGHAI MICRODOM BIOTECH CO., LTD, CN

[85] 2023-04-19

[86] 2021-10-19 (PCT/CN2021/124705)

[87] (WO2022/083585)

[30] CN (202011126136.9) 2020-10-20

[21] **3,196,223**
[13] A1

[25] EN

[54] **METHODS, COMPOSITIONS, AND SYSTEMS FOR MODULATION OF CORONAVIRUS INFECTION**

[54] **METHODES, COMPOSITIONS ET SYSTEMES POUR LA MODULATION D'UNE INFECTION A CORONAVIRUS**

[72] PETROPOULOS, CHRISTOS J., US

[72] DITIRRO, DANIELLE, US

[72] WRIN, MARY T., US

[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US

[85] 2023-04-19

[86] 2021-11-11 (PCT/US2021/058935)

[87] (WO2022/103933)

[30] US (63/112,290) 2020-11-11

[21] **3,196,224**
[13] A1

[51] **Int.Cl. B65B 11/06 (2006.01) G07D 9/00 (2006.01)**

[25] EN

[54] **VERTICAL COIN ROLL CONVEYOR**

[54] **TRANSPORTEUR VERTICAL DE ROULEAUX DE PIECES DE MONNAIE**

[72] STRING, GREGORY F., US

[71] GCCM, LLC, US

[85] 2023-04-19

[86] 2021-09-28 (PCT/US2021/052264)

[87] (WO2022/086675)

[30] US (17/073,669) 2020-10-19

[21] **3,196,225**
[13] A1

[51] **Int.Cl. F03B 13/18 (2006.01)**

[25] EN

[54] **WAVE ENERGY CONVERTER AND A METHOD OF GENERATING ELECTRICAL POWER FROM WAVE ENERGY**

[54] **CONVERTISSEUR D'ENERGIE HOULOMOTRICE ET PROCEDE DE PRODUCTION D'ENERGIE ELECTRIQUE A PARTIR DE L'ENERGIE HOULOMOTRICE**

[72] SWANENBERG, STEN, NL

[72] LUSTIG, HANS, NL

[71] DUTCH WAVE POWER B.V., NL

[85] 2023-04-19

[86] 2021-10-19 (PCT/NL2021/050632)

[87] (WO2022/093013)

[30] NL (2026767) 2020-10-26

PCT Applications Entering the National Phase

[21] **3,196,226**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD OF QUANTIFYING
LYSERGIC ACID
DIETHYLAMIDE (LSD) AND 2,3-
DIHYDRO-3-HYDROXY-2-OXO
LYSERGIDE (O-H-LSD) IN
HUMAN PLASMA**
[54] **PROCEDE DE QUANTIFICATION
DE DIETHYLAMIDE DE L'ACIDE
LYSERGIQUE (LSD) ET DE 2,3-
DIHYDRO-3-HYDROXY-2-OXO
LYSERGIDE (O-H-LSD) DANS DU
PLASMA HUMAIN**
[72] LIECHTI, MATTHIAS EMANUEL,
CH
[72] DUTHALER, URS PHILIPP, CH
[71] UNIVERSITATSSPITAL BASEL, CH
[85] 2023-04-19
[86] 2021-10-20 (PCT/IB2021/059690)
[87] (WO2022/084892)
[30] US (63/105,266) 2020-10-24

[21] **3,196,227**
[13] A1

[51] **Int.Cl. B29C 65/32 (2006.01) B31B
50/66 (2017.01)**
[25] EN
[54] **AN EXPANSIBLE PRESS
PLUNGER, AN ATTACHMENT
UNIT FOR ATTACHING A
CONTAINER ELEMENT TO A
CONTAINER BODY AND A
METHOD FOR SEALING A
PACKAGING CONTAINER**
[54] **PISTON DE PRESSION
EXPANSIBLE, UNITE DE
FIXATION POUR FIXER UN
ELEMENT DE CONTENANT A UN
CORPS DE CONTENANT ET
PROCEDE DE SCELLAGE D'UN
CONTENANT D'EMBALLAGE**
[72] HAGELQVIST, PER, SE
[71] GPI SYSTEMS AB, SE
[85] 2023-04-19
[86] 2021-10-13 (PCT/SE2021/050999)
[87] (WO2022/086391)
[30] SE (2051219-0) 2020-10-20

[21] **3,196,228**
[13] A1

[51] **Int.Cl. G01N 24/10 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A
SET OF CALIBRATION PADS,
CALIBRATION PAD AND
METHOD FOR CALIBRATING AN
ELECTRON PARAMAGNETIC
RESONANCE SPECTROMETER**
[54] **PROCEDE DE FABRICATION
D'UN ENSEMBLE DE PASTILLES
D'ETALONNAGE, PASTILLE
D'ETALONNAGE ET METHODE
D'ETALONNAGE D'UN
PARAMAGNETRE A RESONANCE
PARAMAGNETIQUE
ELECTRONIQUE**
[72] AMIOT, MARIE-NOELLE, FR
[71] COMMISSARIAT A L'ENERGIE
ATOMIQUE ET AUX ENERGIES
ALTERNATIVES, FR
[85] 2023-04-19
[86] 2021-10-21 (PCT/FR2021/051846)
[87] (WO2022/084635)
[30] FR (FR2010878) 2020-10-23

[21] **3,196,229**
[13] A1

[25] EN
[54] **RUNNING BOARD STEP - 2
PIECES EXTRUSION BOARD**
[54] **PLANCHE D'EXTRUSION A 2
PIECES DE MARCHE DE
MARCHEPIED**
[72] PANTEA, SORIN O., CA
[71] MAGNA EXTERIORS INC., CA
[85] 2023-04-19
[86] 2021-10-22 (PCT/IB2021/059778)
[87] (WO2022/084953)
[30] US (63/104,864) 2020-10-23

[21] **3,196,230**
[13] A1

[51] **Int.Cl. G10L 25/06 (2013.01) G10L
25/18 (2013.01) G10L 25/21 (2013.01)
G10L 25/30 (2013.01) H04R 5/033
(2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR
OWN VOICE DETECTION IN A
HEARING SYSTEM**
[54] **SYSTEMES ET PROCEDES DE
DETECTION DE LA VOIX DU
PORTEUR DANS UN SYSTEME
AUDITIF**
[72] LUO, HENRY, CA
[72] TALASLIAN, ARA, CA
[71] SONOVA AG, CH
[85] 2023-04-19
[86] 2020-11-30 (PCT/IB2020/061290)
[87] (WO2022/112834)

[21] **3,196,241**
[13] A1

[51] **Int.Cl. H04R 11/02 (2006.01)**
[25] EN
[54] **ACOUSTIC TRANSDUCER WITH
TRANSVERSALLY ORIENTED
MAGNETS**
[54] **TRANSDUCTEUR ACOUSTIQUE A
AIMANTS ORIENTES
TRANSVERSELEMENT**
[72] SORONEN, PETRI, FI
[72] LUUKKANEN, PETERI, FI
[71] PS AUDIO DESIGN OY, FI
[85] 2023-04-19
[86] 2021-11-09 (PCT/FI2021/050756)
[87] (WO2022/101547)
[30] FI (20206132) 2020-11-10

Demandes PCT entrant en phase nationale

[21] **3,196,245**
[13] A1

[51] **Int.Cl. A23L 33/105 (2016.01) A23L 33/115 (2016.01) A23L 33/185 (2016.01) A23L 33/21 (2016.01) A23P 10/40 (2016.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING FABACEAE FAMILY PLANT COMPONENTS, PROCESSES OF PREPARATION AND USES THEREOF**

[54] **COMPOSITIONS COMPRENANT DES COMPOSANTS DE PLANTES DE LA FAMILLE FABACEAE, LEURS PROCEDES DE PREPARATION ET LEURS UTILISATIONS**

[72] LAVALLEE, PIERRE, CA
[72] DESGAGNES, REJEAN, CA
[72] CAMBRON-FORTIN, LAURENCE, CA
[72] VEZINA, LOUIS-PHILIPPE, CA
[72] TALBOT, PIERRE, CA
[71] VIRENTIA INNOVATION INC., CA
[85] 2023-04-19
[86] 2021-10-21 (PCT/CA2021/051482)
[87] (WO2022/082310)
[30] US (63/094,812) 2020-10-21

[21] **3,196,246**
[13] A1

[51] **Int.Cl. C11D 3/30 (2006.01)**

[25] EN

[54] **MULTIPURPOSE ALKALINE COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS ALCALINES POLYVALENTES ET LEURS PROCEDES D'UTILISATION**

[72] OLSON, ERIK C., US
[72] EMIRU, HILINA, US
[72] ANDERSON, DERRICK, US
[72] RIGHTMIRE, KELLY ANNE, US
[72] MEIER, TIMOTHY, US
[71] ECOLAB USA INC., US
[85] 2023-04-19
[86] 2021-11-22 (PCT/US2021/060265)
[87] (WO2022/115354)
[30] US (63/198,957) 2020-11-25
[30] US (17/249,784) 2021-03-12

[21] **3,196,247**
[13] A1

[51] **Int.Cl. C08G 77/04 (2006.01)**

[25] EN

[54] **ALKYLMETHYLSILOXANE LIQUID IMMERSION COOLING MEDIA**

[54] **MILIEUX DE REFROIDISSEMENT PAR IMMERSION LIQUIDE A BASE D'ALKYLMETHYLSILOXANE**

[72] TANG, ZHENGMIN, CN
[72] BHIDE, SHREYAS, IN
[72] CHEN, HONGYU, CN
[72] WEI, PENG, CN
[72] ANSEMS BANCROFT, PATRICIA, US
[72] LIU, ZHIHUA, CN
[72] PHAN, SON, JP
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] DOW SILICONES CORPORATION, US
[71] DOW TORAY CO., LTD., JP
[85] 2023-04-19
[86] 2021-10-14 (PCT/CN2021/123732)
[87] (WO2022/089214)
[30] CN (PCT/CN2020/124314) 2020-10-28

[21] **3,196,248**
[13] A1

[51] **Int.Cl. C08L 23/04 (2006.01) C08L 23/08 (2006.01)**

[25] EN

[54] **HALOGEN-FREE FLAME RETARDANT POLYMERIC COMPOSITIONS**

[54] **COMPOSITIONS POLYMERES IGNIFUGES SANS HALOGENE**

[72] JELTSCH, KRISCHAN, CH
[72] CHAUDHARY, BHARAT I., US
[72] KUMAR, BHAWESH, US
[72] BURMISTROV, SVYATOSLAV, RU
[72] LOPEZ PIQUER, DAVID, ES
[72] CARDELLI, CAMILLO, IT
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2023-04-19
[86] 2021-10-25 (PCT/US2021/056459)
[87] (WO2022/093693)
[30] IT (10202000025531) 2020-10-28

[21] **3,196,249**
[13] A1

[51] **Int.Cl. A63B 69/24 (2006.01)**

[25] EN

[54] **DYNAMIC EXERCISE SYSTEM**

[54] **SYSTEME D'EXERCICE DYNAMIQUE**

[72] QUARTON, ROBERT, GB
[71] STRIKE MOTION LIMITED, GB
[85] 2023-04-19
[86] 2021-11-03 (PCT/GB2021/052851)
[87] (WO2022/096876)
[30] GB (2017422.3) 2020-11-03

[21] **3,196,250**
[13] A1

[51] **Int.Cl. F16B 31/02 (2006.01)**

[25] EN

[54] **A DEVICE AND METHOD FOR DETERMINING AMOUNT OF FORCE APPLICATION IN FASTENING COMPONENTS**

[54] **DISPOSITIF ET PROCEDE POUR DETERMINER LA QUANTITE D'APPLICATION DE FORCE DANS DES COMPOSANTS DE FIXATION**

[72] THOMAS, DAMIEN JEAN FRANCOIS, AU
[72] KELLNER, PIERRE HENRIK SVEN, AU
[72] BUSALACCHI, STEPHEN JOHN, AU
[71] NORD-LOCK SWITZERLAND GMBH, CH
[85] 2023-04-19
[86] 2021-10-21 (PCT/AU2021/051228)
[87] (WO2022/082269)
[30] US (63/094,810) 2020-10-21

PCT Applications Entering the National Phase

[21] **3,196,252**
[13] A1

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 31/216 (2006.01) A61K 31/222 (2006.01)**

[25] EN

[54] **DRY POWDER COMPOSITIONS OF TREPROSTINIL PRODRUGS AND METHODS OF USE THEREOF**

[54] **COMPOSITIONS DE POUFRE SECHE DE PROMEDICAMENTS DE TREPROSTINIL ET PROCEDES D'UTILISATION ASSOCIES**

[72] DU, JU, US

[72] PLAUNT, ADAM, US

[72] MALININ, VLADIMIR, US

[72] PARIKH, MAULIKKUMAR, US

[72] AMIN, HARSHH, US

[72] PALWAI, NAVEEN, US

[71] INSMED INCORPORATED, US

[85] 2023-04-19

[86] 2021-10-28 (PCT/US2021/057078)

[87] (WO2022/094100)

[30] US (63/106,818) 2020-10-28

[21] **3,196,254**
[13] A1

[25] EN

[54] **PROBABILISTICALLY ADAPTIVE TRAFFIC MANAGEMENT SYSTEM**

[54] **SYSTEME DE GESTION DE TRAFIC A ADAPTATION PROBABILISTE**

[72] NGUYEN, DAVID H., US

[71] THRUGREEN, LLC, US

[85] 2023-04-19

[86] 2020-10-20 (PCT/US2020/046496)

[87] (WO2022/086482)

[21] **3,196,255**
[13] A1

[25] EN

[54] **MINE VEHICLE AUTONOMOUS DRIVE CONTROL**

[54] **COMMANDE DE CONDUITE AUTONOME DE VEHICULE MINIER**

[72] LEHTINEN, ANTTI, FI

[72] IVARSSON, BJORN, SE

[72] SCHMIDT, FREDRIK, SE

[71] SANDVIK MINING AND CONSTRUCTION OY, FI

[85] 2023-04-19

[86] 2020-11-12 (PCT/EP2020/081930)

[87] (WO2022/100837)

[21] **3,196,256**
[13] A1

[25] EN

[54] **NEUTRALIZED ANTIBODY AND METHOD OF USE THEREOF**

[54] **ANTICORPS NEUTRALISE ET SON PROCEDE D'UTILISATION**

[72] YANG, ZHIYONG, US

[72] YU, HUA, US

[71] FZATA, INC., US

[85] 2023-04-19

[86] 2021-10-19 (PCT/US2021/055686)

[87] (WO2022/087021)

[30] US (63/093,884) 2020-10-20

[21] **3,196,257**
[13] A1

[51] **Int.Cl. C08G 8/16 (2006.01) C07C 215/76 (2006.01) C07C 217/76 (2006.01) C08G 8/28 (2006.01) C08G 8/36 (2006.01) C08G 14/06 (2006.01) C08L 61/04 (2006.01) C08L 61/14 (2006.01)**

[25] EN

[54] **ALKOXYLATED (HYDROXYALKYL)AMINOPHENOL POLYMERS AND METHODS OF USE**

[54] **POLYMERES (HYDROXYALKYL)AMINOPHENOL ALCOXYLES ET PROCEDES D'UTILISATION**

[72] DHAWAN, ASHISH, US

[72] SILVERNAIL, CARTER M., US

[71] ECOLAB USA INC., US

[85] 2023-04-19

[86] 2021-10-21 (PCT/US2021/056028)

[87] (WO2022/087248)

[30] US (63/094,597) 2020-10-21

[21] **3,196,258**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 38/47 (2006.01) A61P 13/12 (2006.01)**

[25] EN

[54] **USE OF THERAPEUTIC ENZYME FUSION PROTEIN FOR PREVENTING AND TREATING KIDNEY DISEASE CAUSED OR ACCOMPANIED BY FABRY'S DISEASE**

[54] **UTILISATION D'UNE PROTEINE DE FUSION D'UNE ENZYME THERAPEUTIQUE POUR PREVENIR ET TRAITER UNE MALADIE RENALE PROVOQUEE PAR LA MALADIE DE FABRY OU L'ACCOMPAGNANT**

[72] CHOI, JAE HYUK, KR

[72] KIM, SANG YUN, KR

[72] KIM, JEONG A., KR

[72] KIM, JIN YOUNG, KR

[72] PARK, CHO RONG, KR

[72] JANG, DOO SEO, KR

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

[85] 2023-04-19

[86] 2021-11-15 (PCT/KR2021/016630)

[87] (WO2022/103221)

[30] KR (10-2020-0152247) 2020-11-13

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[21] **3,196,259**
[13] A1

[51] **Int.Cl. F16B 5/02 (2006.01) G21F 5/008 (2006.01) G21F 5/12 (2006.01)**
[25] EN
[54] **TRANSPORT BASKET FOR TRANSPORTING DEFECTIVE SPENT NUCLEAR FUEL OF HEAVY-WATER REACTOR**
[54] **PANIER DE TRANSPORT DESTINE A UN COMBUSTIBLE NUCLEAIRE IRRADIE DEFECTUEUX D'UN REACTEUR A EAU LOURDE**
[72] CHUNG, SUNGHWAN, KR
[72] KIM, YONGDEOG, KR
[72] KIM, KIYOUNG, KR
[72] KIM, TAEHYEON, KR
[72] LEE, DONGHEE, KR
[72] SON, JINWON, KR
[72] LEE, DONG-GYU, KR
[72] JUNG, IN-SU, KR
[72] YANG, KE-HYUNG, KR
[72] KO, JAE-HUN, KR
[72] JUNG, DUK-WOON, KR
[71] KOREA HYDRO & NUCLEAR POWER CO., LTD., KR
[85] 2023-04-19
[86] 2021-10-21 (PCT/KR2021/014817)
[87] (WO2022/086222)
[30] KR (10-2020-0137315) 2020-10-22

[21] **3,196,260**
[13] A1

[25] EN
[54] **LIQUID SUSPENSION COMPOSITIONS AND COATED FERTILIZER PARTICLES**
[54] **COMPOSITIONS EN SUSPENSIONS LIQUIDES ET PARTICULES D'ENGRAIS ENROBEES**
[72] IANNOTTA, LEAHANN, US
[72] PAZHIANUR, RAJESH, US
[71] KEYSTONE SPECIALTY CHEMICALS LLC, US
[85] 2023-04-19
[86] 2021-10-19 (PCT/US2021/055554)
[87] (WO2022/086924)
[30] US (63/093,917) 2020-10-20

[21] **3,196,261**
[13] A1

[51] **Int.Cl. C02F 11/121 (2019.01) C02F 11/128 (2019.01) C02F 11/147 (2019.01)**
[25] EN
[54] **SLUDGE TREATMENT AND DEWATERING SYSTEMS**
[54] **SYSTEMES DE TRAITEMENT ET DE DESHYDRATATION DE BOUES**
[72] SULPHUR, TERRY, CA
[71] BIOVAC SOLUTIONS INC., CA
[85] 2023-04-19
[86] 2021-10-20 (PCT/CA2021/051477)
[87] (WO2022/082308)
[30] US (63/198,464) 2020-10-20

[21] **3,196,262**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) F04B 9/02 (2006.01) F04B 17/03 (2006.01) F04B 17/06 (2006.01) F04B 23/00 (2006.01) F04B 23/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR A FRAC SYSTEM**
[54] **SYSTEME ET PROCEDE POUR UN SYSTEME DE FRACTURATION**
[72] CHAPMAN, BOBBY JOE, US
[72] EDWARDS, SEAN DEE, US
[72] KING, MICHAEL GERARD, US
[72] MOORE, SETH RICHARD, US
[72] VOLDARSKI, KEVIN MARTIN, US
[71] CATALYST ENERGY SERVICES LLC, US
[85] 2023-04-19
[86] 2021-10-22 (PCT/US2021/056128)
[87] (WO2022/087327)
[30] US (63/104,982) 2020-10-23
[30] US (63/250,965) 2021-09-30
[30] US (63/187,757) 2021-05-12
[30] US (17/507,636) 2021-10-21

[21] **3,196,263**
[13] A1

[51] **Int.Cl. A47G 9/10 (2006.01)**
[25] EN
[54] **PILLOW WITH VARIABLE CUSHIONING CHARACTERISTICS**
[54] **OREILLER AVEC DES CARACTERISTIQUES DE REMBOURRAGE VARIABLES**
[72] HOOVER, WADE H., US
[72] ACHARYA, DHYEEY Y., US
[72] HATCH, SETH, US
[72] PALMER, JUDITH, US
[71] PURPLE INNOVATION, LLC, US
[85] 2023-04-19
[86] 2021-11-08 (PCT/US2021/058461)
[87] (WO2022/099138)

[21] **3,196,264**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 38/47 (2006.01) A61P 25/02 (2006.01)**
[25] EN
[54] **USE OF THERAPEUTIC ENZYME FUSION PROTEIN IN PREVENTION AND TREATMENT OF NEUROPATHY CAUSED BY OR ACCOMPANIED BY FABRY DISEASE**
[54]
[72] KIM, JIN YOUNG, KR
[72] PARK, CHO RONG, KR
[72] KIM, SANG YUN, KR
[72] KIM, WON KI, KR
[72] PARK, SU YEON, KR
[71] HANMI PHARM. CO., LTD., KR
[85] 2023-04-19
[86] 2021-11-15 (PCT/KR2021/016629)
[87] (WO2022/103220)
[30] KR (10-2020-0152246) 2020-11-13

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[21] 3,196,265 [13] A1	[21] 3,196,266 [13] A1	[21] 3,196,268 [13] A1
[51] Int.Cl. G06F 21/62 (2013.01) G06Q 30/04 (2012.01)	[51] Int.Cl. A24F 15/015 (2020.01) A24F 40/50 (2020.01) A24F 40/60 (2020.01) A24F 40/65 (2020.01) A24F 40/90 (2020.01) A24F 40/95 (2020.01)	[51] Int.Cl. C12Q 1/68 (2018.01)
[25] EN	[25] EN	[25] EN
[54] ONLINE SOFTWARE PLATFORM (OSP) EXTRACTING DATA OF CLIENT FROM AN ENTERPRISE RESOURCE PLANNING SERVER AND RETURNING A DATA DEPENDENT DETERMINATION RESULT TO THE CLIENT	[54] REFILLING DEVICE, REFILLING APPARATUS AND METHOD	[54] SAMPLE ANALYSIS CARTRIDGE, SYSTEM AND METHOD
[54] PLATE-FORME LOGICIELLE EN LIGNE (OSP) EXTRAYANT DES DONNEES DE CLIENT D'UN SERVEUR DE PLANIFICATION DE RESSOURCES D'ENTREPRISE ET RENVOYANT AU CLIENT UN RESULTAT DE DETERMINATION DEPENDANT DES DONNEE	[54] DISPOSITIF DE RECHARGE, APPAREIL ET PROCEDE DE RECHARGE	[54] CARTOUCHE D'ANALYSE D'ECHANTILLONS ET SYSTEME ET PROCEDE ASSOCIES
[72] WILHELM, MARK, US	[72] EL-ASSAAD, CARLA, GB	[72] HARDING, PIERS SEBASTIAN, GB
[72] KULKARNI, MRUNALINI, US	[72] ROTHWELL, HOWARD, GB	[72] JEPPI, GARY KEITH, GB
[72] VAN RHEENEN, SIMONE, US	[72] HAINES, RICHARD, GB	[72] HARDING, PIERS SEBASTIAN, GB
[72] AGGARWAL, RAHUL, US	[72] ALLER, JARED, GB	[72] JEPPI, GARY KEITH, GB
[72] SANTOKI, VIMAL SHANTIBHAI, US	[72] SHETTY, YASHAS DINESH, GB	[71] TTP PLC, GB
[72] JANZEN, MARK, US	[72] MANI, VASANTHAN, GB	[85] 2023-04-19
[72] GHULE, ROHIT, US	[72] MALAPANAGUDI, SUDARSHAN, GB	[86] 2021-10-20 (PCT/GB2021/052718)
[71] AVALARA, INC., US	[72] MAHALINGAM, SUDARSHAN, GB	[87] (WO2022/084673)
[85] 2023-04-19	[72] NATARAJAN, SURESH KUMAR, GB	[30] GB (2016715.1) 2020-10-21
[86] 2021-08-31 (PCT/US2021/048528)	[72] RADHAKRISHNAN, ABHILASH, GB	
[87] (WO2022/098422)	[72] TALBOT, NICK, GB	[21] 3,196,269 [13] A1
[30] US (17/089,485) 2020-11-04	[72] WEBB, WILLIAM DUNCAN II, GB	[51] Int.Cl. A61K 35/12 (2015.01) A61K 35/17 (2015.01)
	[72] SCHMITT, JAN, GB	[25] EN
	[72] KAUFMAN, CALE, GB	[54] SAFE HARBOR LOCI
	[71] NICOVENTURES TRADING LIMITED, GB	[54] LOCI D'HEBERGEMENT SURS
	[85] 2023-04-19	[72] ZHENG, XINYING, US
	[86] 2021-10-22 (PCT/GB2021/052740)	[72] GALVIN, BRENDAN, US
	[87] (WO2022/084690)	[72] KHARE, SOMYA, US
	[30] GB (2016760.7) 2020-10-22	[72] COOPER, AARON, US
	[30] GB (2108805.9) 2021-06-18	[72] NGUYEN, MICHELLE, US
		[72] YAO, ANZHI, US
		[71] ARSENAL BIOSCIENCES, INC., US
		[85] 2023-04-19
		[86] 2021-10-26 (PCT/US2021/056689)
		[87] (WO2022/093846)
		[30] US (63/105,834) 2020-10-26
		[30] US (63/141,926) 2021-01-26
		[30] US (63/179,143) 2021-04-23
	[21] 3,196,267 [13] A1	
	[51] Int.Cl. A61K 31/192 (2006.01) A61K 31/05 (2006.01) A61K 31/223 (2006.01) A61K 31/225 (2006.01) A61P 25/28 (2006.01)	
	[25] EN	
	[54] COMPOSITIONS AND METHODS FOR TREATING NEURONAL DISORDERS WITH CANNABINOIDS	
	[54] COMPOSITIONS ET PROCEDES DE TRAITEMENT DES TROUBLES NEURONAUX A L'AIDE DE CANNABINOIDES	
	[72] HSU, ERIC, CA	
	[72] KADHIM, SALAM, CA	
	[72] SOMVANSI, RISHI KUMAR, CA	
	[72] KUMAR, UJENDRA, CA	
	[71] INMED PHARMACEUTICALS INC., CA	
	[85] 2023-04-19	
	[86] 2021-10-21 (PCT/CA2021/051487)	
	[87] (WO2022/082313)	
	[30] US (63/094,822) 2020-10-21	

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[21] **3,196,270**
[13] A1

[51] **Int.Cl. C08F 220/56 (2006.01) C08F 4/32 (2006.01) C08F 212/36 (2006.01) C08F 220/60 (2006.01) C08J 3/075 (2006.01)**

[25] EN

[54] **NONTOXIC HIGH TEMPERATURE RESISTANT HYDROGELS**

[54] **HYDROGELS NON TOXIQUES RESISTANT AUX HAUTES TEMPERATURES**

[72] SCHUMAN, THOMAS, US

[72] BAI, BAOJUN, US

[72] SALUNKHE, BUDDHABHUSHAN PUNDLIK, US

[71] THE CURATORS OF THE UNIVERSITY OF MISSOURI, US

[85] 2023-04-19

[86] 2021-09-20 (PCT/US2021/047487)

[87] (WO2022/098412)

[30] US (63/109,746) 2020-11-04

[21] **3,196,285**
[13] A1

[51] **Int.Cl. B01D 45/14 (2006.01) B01D 50/10 (2022.01) B01D 47/16 (2006.01)**

[25] EN

[54] **A SEPARATOR FOR A MULTI-PHASE FLOW**

[54] **SEPARATEUR POUR FLUX MULTIPHASE**

[72] FERNANDINO, MARIA, NO

[72] DORAO, CARLOS A., NO

[71] INNSEP AS, NO

[85] 2023-04-20

[86] 2021-11-01 (PCT/EP2021/080260)

[87] (WO2022/090537)

[30] GB (2017239.1) 2020-10-30

[30] GB (2017240.9) 2020-10-30

[30] GB (2017217.7) 2020-10-30

[30] GB (2017231.8) 2020-10-30

[21] **3,196,286**
[13] A1

[51] **Int.Cl. C07D 295/135 (2006.01)**

[25] EN

[54] **CRYSTALLINE 5-(DIMETHYLAMINO)-N-(4-(MORPHOLINOMETHYL)PHENYL) NAPHTHALENE-1-SULFONAMIDE DI-HYDROCHLORIDE DI-HYDRATE**

[54] **DIHYDRATE DE DICHLORHYDRATE DE 5-(DIMETHYLAMINO)-N-(4-(MORPHOLINOMETHYL)PHENYL)NAPHTHALENE-1-SULFONAMIDE CRISTALLIN**

[72] GALAN, ADAM, US

[72] LAL, RITU, US

[72] LUO, WENDY, US

[71] GEN1E LIFESCIENCES INC., US

[85] 2023-04-20

[86] 2021-10-21 (PCT/US2021/055950)

[87] (WO2022/093610)

[30] US (63/106,991) 2020-10-29

[21] **3,196,287**
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) C07D 239/94 (2006.01) C07D 401/14 (2006.01) C07D 403/08 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **SUBSTITUTED BENZO OR PYRIDOPYRIMIDINE AMINE INHIBITOR, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF**

[54] **INHIBITEUR D'AMINE BENZO OU PYRIDOPYRIMIDINE SUBSTITUE, SON PROCEDE DE PREPARATION ET SON APPLICATION**

[72] LV, BINHUA, CN

[72] CUI, DAWEI, CN

[72] ZHANG, QING, CN

[72] CHAI, CHUANKE, CN

[72] LIANG, HUI, CN

[72] PANG, XUDONG, CN

[71] SUZHOU ZELGEN BIOPHARMACEUTICALS CO., LTD, CN

[71] SHANGHAI ZELGEN PHARMA.TECH CO., LTD., CN

[85] 2023-04-20

[86] 2021-10-20 (PCT/CN2021/125084)

[87] (WO2022/083657)

[30] CN (202011128302.9) 2020-10-20

[30] CN (202110178999.9) 2021-02-09

[30] CN (202110790488.2) 2021-07-13

[21] **3,196,288**
[13] A1

[25] EN

[54] **METHOD FOR PREPARING A COUNTER/REFERENCE ELECTRODE**

[54] **PROCEDE DE PREPARATION D'UNE CONTRE-ELECTRODE/ELECTRODE DE REFERENCE**

[72] SLIOZBERG, KIRILL, DE

[72] STECK, ALEXANDER, DE

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

[85] 2023-04-20

[86] 2021-11-22 (PCT/EP2021/082392)

[87] (WO2022/112138)

[30] EP (20209558.4) 2020-11-24

[21] **3,196,289**
[13] A1

[51] **Int.Cl. H01R 39/42 (2006.01) H01R 39/415 (2006.01) H01R 39/58 (2006.01)**

[25] EN

[54] **BRUSH HOLDER ASSEMBLY**

[54] **ASSEMBLE PORTE-BALAIS**

[72] CUTSFORTH, ROBERT S., US

[71] CUTSFORTH, INC., US

[85] 2023-04-20

[86] 2021-11-02 (PCT/US2021/057701)

[87] (WO2022/098643)

[30] US (63/109,455) 2020-11-04

[21] **3,196,290**
[13] A1

[25] EN

[54] **PROCESS FOR TESTING THE ACCURACY AND THE PERFORMANCE OF AN ULTRASOUND TRANSDUCER**

[54] **PROCESSUS DE TEST DE LA PRECISION ET DE LA PERFORMANCE D'UN TRANSDUCTEUR A ULTRASONS**

[72] PENOT, ROBIN, FR

[72] SUAREZ, DANIEL, FR

[72] REMOND, MATHIEU, FR

[72] KWIECINSKI, WOJCIECH, FR

[71] CARDIAWAVE, FR

[85] 2023-04-20

[86] 2021-10-22 (PCT/EP2021/079430)

[87] (WO2022/084547)

[30] EP (20306276.5) 2020-10-23

PCT Applications Entering the National Phase

[21] **3,196,291**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTIBODY FOR ENRICHMENT OF CELLS**
[54] **ANTICORPS POUR L'ENRICHISSEMENT DE CELLULES**
[72] LIU, YING-CHIH, TW
[72] CHEN, CHIEN-YU, TW
[72] LI, JU-MEI, TW
[71] CHO PHARMA, INC., TW
[85] 2023-04-20
[86] 2021-11-30 (PCT/US2021/061181)
[87] (WO2022/115776)

[21] **3,196,292**
[13] A1

[51] **Int.Cl. F16K 11/20 (2006.01)**
[25] EN
[54] **PRESSURE BALANCE VALVE APPARATUS**
[54] **APPAREIL A SOUPE A D'EQUILIBRAGE DE PRESSION**
[72] ZHENG, XIAOPING, CN
[72] YE, XIAOJING, US
[71] AS AMERICA, INC., US
[85] 2023-04-20
[86] 2021-10-28 (PCT/US2021/056986)
[87] (WO2022/094033)
[30] CN (PCT/CN2020/125392) 2020-10-30

[21] **3,196,293**
[13] A1

[51] **Int.Cl. B07C 3/00 (2006.01) B07C 7/00 (2006.01)**
[25] EN
[54] **REAL-TIME TRACKING OF PARCELS IN A FACILITY**
[54] **SUIVI EN TEMPS REEL DE COLIS DANS UNE INSTALLATION**
[72] FREEMAN, MALLORY, US
[72] MAJOR, TIMOTHY, US
[72] WU, DAVID, US
[72] SKORB, LAUREN, US
[72] BRITTON, MATTHEW, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2023-04-20
[86] 2021-10-13 (PCT/US2021/054732)
[87] (WO2022/086771)
[30] US (17/078,518) 2020-10-23

[21] **3,196,294**
[13] A1

[51] **Int.Cl. A01K 15/02 (2006.01)**
[25] EN
[54] **APPARATUS FOR TRACKING AND MONITORING PET ACTIVITY**
[54] **APPAREIL DE SUIVI ET DE SURVEILLANCE DE L'ACTIVITE D'UN ANIMAL DE COMPAGNIE**
[72] MOTT, ROBERT, US
[72] HUANG, SHAO EN, US
[72] SMITH, RUSS WARD, US
[71] MARS, INCORPORATED, US
[85] 2023-04-20
[86] 2021-11-12 (PCT/US2021/059124)
[87] (WO2022/104048)
[30] US (63/113,670) 2020-11-13

[21] **3,196,295**
[13] A1

[51] **Int.Cl. B60C 25/05 (2006.01)**
[25] EN
[54] **APPARATUS FOR MOUNTING TIRES IN BICYCLES, MOTORCYCLES AND THE LIKE**
[54] **APPAREIL DE MONTAGE DE PNEUS SUR DES VELOS, MOTOCYCLETTES ET SIMILAIRES**
[72] CERASI, ALESSANDRO, IT
[71] OFF ROAD S.R.L., IT
[85] 2023-04-20
[86] 2021-10-27 (PCT/EP2021/079766)
[87] (WO2022/090282)
[30] IT (202020000006001) 2020-10-27

[21] **3,196,296**
[13] A1

[51] **Int.Cl. F03D 13/25 (2016.01) F03D 13/40 (2016.01) B63B 77/10 (2020.01) E02B 17/02 (2006.01)**
[25] EN
[54] **PONTOON FOR TRANSPORTING AND PLACING A MARINE WIND TURBINE ON THE SEABED**
[54] **BARGE DE TRANSPORT ET DEPOT D'UNE EOLIENNE MARINE SUR LE LIT MARIN**
[72] COUNAGO LORENZO, BERNARDINO, ES
[72] PAULOTTO, CARLO, IT
[72] VELLISCO PLAZA, FATIMA, ES
[72] CAPOTE GARCIA, ALFONSO, ES
[72] LOPEZ ROMAN, CARLOS, ES
[72] GONZALEZ SUAREZ, DOMINGO ANTONIO, ES
[72] CALVO HERRERA, IGNACIO, ES
[72] ARMAS MENDEZ, JUAN MANUEL, ES
[72] SANCHEZ DE MENA, CRISTINA, ES
[72] GONZALEZ HERRERO, JOSE MANUEL, ES
[72] ZAMORA SERRANO, DANIEL, ES
[71] ACCIONA CONSTRUCCION, S.A., ES
[85] 2023-04-20
[86] 2020-10-28 (PCT/ES2020/070662)
[87] (WO2022/090584)

[21] **3,196,299**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD73 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-CD73 ET SON UTILISATION**
[72] LI, BAIYONG, CN
[72] XIA, YU, CN
[72] WANG, ZHONGMIN, CN
[71] AKESO BIOPHARMA, INC., CN
[71] AKESO PHARMACEUTICALS, INC., CN
[85] 2023-04-20
[86] 2021-10-22 (PCT/CN2021/125564)
[87] (WO2022/083723)
[30] CN (202011152518.9) 2020-10-23

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[21] **3,196,300**
[13] A1

[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/86 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL HYDROGEL COMPOSITIONS AND USES**
[54] **COMPOSITIONS D'HYDROGEL ORAL ET LEURS UTILISATIONS**
[72] MANUS, LISA, US
[72] STEELE, JOSEPH, US
[72] PICQUET, GUILLAUME, US
[72] PADULA, CHRISTINE, US
[72] CHEN, DANDAN, US
[72] WON, BETTY, US
[72] POTANIN, ANDREI, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2023-04-20
[86] 2021-11-03 (PCT/US2021/057861)
[87] (WO2022/098730)
[30] US (63/109,169) 2020-11-03

[21] **3,196,301**
[13] A1

[51] **Int.Cl. B60N 2/28 (2006.01)**
[25] EN
[54] **SHOULDER STRAP WIDTH ADJUSTMENT MECHANISM AND CHILD SAFETY SEAT**
[54] **MECANISME DE REGLAGE DE LARGEUR DE BRETELLE ET SIEGE DE SECURITE POUR ENFANT**
[72] ZHANG, DALIANG, CH
[71] BAMBINO PREZIOSO SWITZERLAND AG, CH
[85] 2023-04-20
[86] 2021-10-21 (PCT/IB2021/059704)
[87] (WO2022/084902)
[30] CN (202011135896.6) 2020-10-22

[21] **3,196,302**
[13] A1

[25] EN
[54] **CAPSULE AND MANUFACTURING PROCESS FOR PRODUCING SAID CAPSULE**
[54] **CAPSULE ET PROCEDE DE FABRICATION POUR LA PRODUCTION DE LADITE CAPSULE**
[72] RICHARD, CEDRIC, CH
[72] GERBAULET, ARNAUD, FR
[72] BEHRMANN, VEITH, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2023-04-20
[86] 2021-11-24 (PCT/EP2021/082805)
[87] (WO2022/112320)
[30] EP (20210284.4) 2020-11-27

[21] **3,196,303**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 29/86 (2006.01) C07C 29/94 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL**
[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL**
[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[72] GLATZ, PATRIK, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-20
[86] 2021-10-07 (PCT/EP2021/077669)
[87] (WO2022/084050)
[30] EP (20203021.9) 2020-10-21

[21] **3,196,304**
[13] A1

[51] **Int.Cl. B44C 5/04 (2006.01)**
[25] EN
[54] **FLOOR PANEL AND METHOD FOR MANUFACTURING A FLOOR PANEL.**
[54] **PANNEAU DE PLANCHER ET PROCEDE DE FABRICATION D'UN PANNEAU DE PLANCHER**
[72] MEERSSEMAN, LAURENT, BE
[72] VANHASTEL, LUC, BE
[72] SABBE, PIETER-JAN, BE
[72] CLEMENT, BENJAMIN, BE
[71] FLOORING INDUSTRIES LIMITED, SARL, LU
[85] 2023-04-20
[86] 2021-11-04 (PCT/IB2021/060214)
[87] (WO2022/101743)
[30] EP (20206709.6) 2020-11-10

[21] **3,196,305**
[13] A1

[51] **Int.Cl. F16G 11/10 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO CARRIAGES AND CLAMPING DEVICES**
[54] **PERFECTIONNEMENTS APPORTES OU SE RAPPORTANT A DES CHARIOTS ET A DES DISPOSITIFS DE SERRAGE**
[72] REYNOLDS, THOMAS, GB
[71] GRIPPLE LIMITED, GB
[85] 2023-04-20
[86] 2021-10-27 (PCT/IB2021/059912)
[87] (WO2022/096987)
[30] GB (2017428.0) 2020-11-04
[30] GB (2115385.3) 2021-10-26

[21] **3,196,306**
[13] A1

[51] **Int.Cl. H04L 12/14 (2006.01) H04W 28/16 (2009.01)**
[25] EN
[54] **POSITIONING METHOD AND RELATED APPARATUS**
[54] **PROCEDE DE POSITIONNEMENT ET APPAREIL ASSOCIE**
[72] HAO, JINPING, CN
[72] GUO, YINGHAO, CN
[72] HUANG, SU, CN
[72] LIU, MENGTING, CN
[71] HUAWAI TECHNOLOGIES CO., LTD., CN
[85] 2023-04-20
[86] 2020-10-21 (PCT/CN2020/122597)
[87] (WO2022/082535)

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[21] **3,196,308**
[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] FANG, GANQING, CN
[72] ZHANG, DALIANG, CN
[71] BAMBINO PREZIOSO SWITZERLAND AG, CH
[85] 2023-04-20
[86] 2021-10-20 (PCT/IB2021/059665)
[87] (WO2022/084880)
[30] CN (202011137746.9) 2020-10-22

[21] **3,196,309**
[13] A1

[51] **Int.Cl. B01D 17/028 (2006.01) B01D 17/12 (2006.01) E03F 5/16 (2006.01)**
[25] EN
[54] **A FOG (FATS, OIL, OR GREASE) SEPARATOR APPARATUS**

[54] **APPAREIL SEPARATEUR DE FOG (MATIERE GRASSE, HUILE, OU GRAISSE)**

[72] CLEMES, CHRISTOPHER CHARLES, GB
[71] ECO CLARITY LTD., GB
[85] 2023-04-20
[86] 2021-10-18 (PCT/IB2021/059549)
[87] (WO2022/084818)
[30] ZA (2020/05234) 2020-10-21

[21] **3,196,312**
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06F 21/57 (2013.01) G06F 16/23 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MONITORING A RISK OF RE-IDENTIFICATION IN A DE-IDENTIFIED DATABASE**

[54] **PROCEDES ET SYSTEMES DE SURVEILLANCE D'UN RISQUE DE RE-IDENTIFICATION DANS UNE BASE DE DONNEES DE-IDENTIFIEE**

[72] BLACKPORT, JOHN, GB
[72] MOFFATT, COLIN, GB
[72] SYMMERS, PAUL, GB
[72] BAYLESS, PAUL, GB
[72] GRAY, JAMIE, GB
[71] MIRADOR ANALYTICS LIMITED, GB
[85] 2023-04-20
[86] 2021-09-29 (PCT/GB2021/052528)
[87] (WO2022/084646)
[30] US (63/104,783) 2020-10-23

[21] **3,196,313**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 29/88 (2006.01) C07C 31/20 (2006.01)**
[25] EN
[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL**

[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL**

[72] WIEDERHOLD, HOLGER, DE
[72] BOLZ, DAVID, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2023-04-20
[86] 2021-10-07 (PCT/EP2021/077729)
[87] (WO2022/084056)
[30] EP (20203037.5) 2020-10-21

[21] **3,196,314**
[13] A1

[51] **Int.Cl. G02B 1/14 (2015.01)**
[25] EN
[54] **HEAT-TREATABLE COATING WITH BLOCKING LAYER HAVING REDUCED COLOR SHIFT**

[54] **REVETEMENT POUVANT ETRE TRAITÉ THERMIQUEMENT AVEC COUCHE DE BLOCAGE AYANT UN DECALAGE DE COULEUR REDUIT**

[72] NARAYANAN, SUDARSHAN, GB
[72] GANJOO, ASHTOSH, US
[72] POLCYN, ADAM D., US
[71] VITRO FLAT GLASS LLC, US
[85] 2023-04-20
[86] 2021-10-20 (PCT/US2021/055802)
[87] (WO2022/087100)
[30] US (63/094,584) 2020-10-21
[30] US (17/504,968) 2021-10-19

[21] **3,196,315**
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6883 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS RELATING TO ALZHEIMER'S DISEASE**

[54] **COMPOSITIONS ET METHODES ASSOCIEES A LA MALADIE D'ALZHEIMER**

[72] CHIBA-FALEK, ORNIT, US
[72] KANTOR, BORIS, US
[71] DUKE UNIVERSITY, US
[85] 2023-04-20
[86] 2021-10-12 (PCT/US2021/054475)
[87] (WO2022/086753)
[30] US (63/104,343) 2020-10-22
[30] US (63/132,286) 2020-12-30

Demandes PCT entrant en phase nationale

[21] **3,196,316**
[13] A1

[51] **Int.Cl. C08G 8/16 (2006.01) C07C 217/76 (2006.01) C08G 8/28 (2006.01) C08G 14/06 (2006.01) C08L 61/04 (2006.01)**

[25] EN

[54] **(HYDROXYALKYL)AMINOPHENOL POLYMERS AND METHODS OF USE**

[54] **POLYMERES D'(HYDROXYALKYL)AMINOPHENOL ET PROCEDES D'UTILISATION**

[72] DHAWAN, ASHISH, US

[72] SILVERNAIL, CARTER M., US

[71] ECOLAB USA INC., US

[85] 2023-04-20

[86] 2021-10-21 (PCT/US2021/056024)

[87] (WO2022/087246)

[30] US (63/094,597) 2020-10-21

[21] **3,196,318**
[13] A1

[51] **Int.Cl. C07C 29/48 (2006.01) C07C 31/20 (2006.01)**

[25] EN

[54] **A METHOD FOR THE PREPARATION OF 1,2-PROPANEDIOL**

[54] **PROCEDE DE PREPARATION DE 1,2-PROPANEDIOL**

[72] WIEDERHOLD, HOLGER, DE

[72] BOLZ, DAVID, DE

[72] THIELE, GEORG FRIEDRICH, DE

[72] JAEGER, BERND, DE

[72] KOHLE, HANS-JURGEN, DE

[72] IMM, SEBASTIAN, DE

[72] LAZAR, MARINA, DE

[71] EVONIK OPERATIONS GMBH, DE

[85] 2023-04-20

[86] 2021-10-07 (PCT/EP2021/077710)

[87] (WO2022/084055)

[30] EP (20202956.7) 2020-10-21

[21] **3,196,319**
[13] A1

[51] **Int.Cl. H04W 72/12 (2023.01)**

[25] EN

[54] **COMMUNICATION METHOD AND APPARATUS**

[54] **PROCEDE ET APPAREIL DE COMMUNICATION**

[72] FAN, QIANG, CN

[72] YOU, CHUNHUA, CN

[71] HUAWEI TECHNOLOGIES CO., LTD., CN

[85] 2023-04-20

[86] 2020-10-21 (PCT/CN2020/122590)

[87] (WO2022/082530)

[21] **3,196,322**
[13] A1

[25] EN

[54] **PNEUMATIC VEHICLE TIRE**

[54] **BANDAGE PNEUMATIQUE DE VEHICULE**

[72] BROCKMANN, JURGEN, DE

[72] BRANDAU, CHRISTIAN, DE

[72] SUBRAMANIAN SIVANARUTHELVI, MANICKARAJ, DE

[72] SENG, MATTHIAS, DE

[71] CONTINENTAL REIFEN DEUTSCHLAND GMBH, DE

[85] 2023-04-20

[86] 2021-11-01 (PCT/DE2021/200167)

[87] (WO2022/100798)

[30] DE (10 2020 214 363.3) 2020-11-16

[21] **3,196,323**
[13] A1

[51] **Int.Cl. B09B 3/40 (2022.01)**

[25] EN

[54] **METHOD FOR SANITIZING WASTE**

[54] **PROCEDE DE DESINFECTION DE DECHETS**

[72] STAHLHUT, STEEN GUSTAV, DK

[72] SORENSEN, HANNE RISBJERG, DK

[71] RENESCIENCE A/S, DK

[85] 2023-04-20

[86] 2021-11-03 (PCT/EP2021/080529)

[87] (WO2022/096517)

[30] EP (20205654.5) 2020-11-04

[30] EP (20207700.4) 2020-11-16

[30] EP (20211202.5) 2020-12-02

[21] **3,196,325**
[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01) G06F 16/182 (2019.01)**

[25] EN

[54] **SYSTEMS, METHODS, AND MEDIA FOR IMPLEMENTING CONFLICT-FREE REPLICATED DATA TYPES IN IN-MEMORY DATA STRUCTURES**

[54] **SYSTEMES, PROCEDES ET SUPPORTS POUR METTRE EN ?UVRE DES TYPES DE DONNEES REPLIQUEES SANS CONFLIT DANS DES STRUCTURES DE DONNEES EN MEMOIRE**

[72] INBAR, YUVAL, IL

[72] GOTTLIEB, YOSSI, IL

[71] REDIS LTD, IL

[85] 2023-04-20

[86] 2021-10-20 (PCT/IL2021/051244)

[87] (WO2022/085000)

[30] US (63/094,328) 2020-10-20

[30] US (63/094,797) 2020-10-21

[21] **3,196,327**
[13] A1

[25] EN

[54] **METHOD, COMPUTER PROGRAM AND CONTROL DEVICE FOR CONTROLLING A COOKING APPLIANCE AND COOKING APPLIANCE SYSTEM**

[54] **PROCEDE, PROGRAMME INFORMATIQUE ET DISPOSITIF DE COMMANDE POUR COMMANDER UN APPAREIL DE CUISSON ET SYSTEME D'APPLICATION DE CUISSON**

[72] SCHMICKAL, JULIAN, AT

[72] JUNGMANN, MICHAEL, AT

[72] KEPPLINGER, HANNES, AT

[72] TUCHLER, JULIA, AT

[72] SCHUSTER, KAY, AT

[71] BRUCKBAUER, WILHELM, DE

[85] 2023-04-20

[86] 2021-10-22 (PCT/EP2021/079379)

[87] (WO2022/096290)

[30] DE (10 2020 213 804.4) 2020-11-03

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[21] **3,196,328**
[13] A1

[51] **Int.Cl. H01M 8/04119 (2016.01)**
[25] EN
[54] **CARTRIDGE OF HUMIDIFIER FOR FUEL CELL AND HUMIDIFIER FOR FUEL CELL**
[54] **CARTOUCHE D'HUMIDIFICATEUR POUR PILE A COMBUSTIBLE ET HUMIDIFICATEUR POUR PILE A COMBUSTIBLE**
[72] KIM, DO WOO, KR
[72] YANG, HYOUNG MO, KR
[72] HER, JUNG KUN, KR
[71] KOLON INDUSTRIES, INC., KR
[85] 2023-04-20
[86] 2021-11-11 (PCT/KR2021/016392)
[87] (WO2022/139172)
[30] KR (10-2020-0179261) 2020-12-21

[21] **3,196,331**
[13] A1

[51] **Int.Cl. B23D 35/00 (2006.01) G21F 9/00 (2006.01) G21F 9/30 (2006.01)**
[25] EN
[54] **CUTTING APPARATUS FOR FUEL BASKET CONTAINING SPENT NUCLEAR FUEL IN HEAVY WATER REACTOR**
[54] **APPAREIL DE COUPE DESTINE A UN PANIER A COMBUSTIBLE CONTENANT UN COMBUSTIBLE NUCLEAIRE IRRADIE DANS UN REACTEUR A EAU LOURDE**
[72] CHUNG, SUNGHWAN, KR
[72] KIM, YONGDEOG, KR
[72] KIM, KIYOUNG, KR
[72] KIM, TAEHYEON, KR
[72] LEE, DONGHEE, KR
[72] SON, JINWON, KR
[72] LEE, DONG-GYU, KR
[72] JUNG, IN-SU, KR
[72] YANG, KE-HYUNG, KR
[72] JANG, JUN-SANG, KR
[72] KIM, TAE-SU, KR
[71] KOREA HYDRO & NUCLEAR POWER CO., LTD., KR
[85] 2023-04-20
[86] 2021-10-21 (PCT/KR2021/014818)
[87] (WO2022/086223)
[30] KR (10-2020-0137316) 2020-10-22

[21] **3,196,332**
[13] A1

[51] **Int.Cl. E21B 17/042 (2006.01) E21B 17/046 (2006.01) E21B 31/00 (2006.01) E21B 37/00 (2006.01)**
[25] EN
[54] **DOWNHOLE DEBRIS REMOVAL APPARATUS INCLUDING A MODULAR KNOCKOUT CHAMBER**
[54] **APPAREIL D'ELIMINATION DE DEBRIS DE FOND COMPRENANT UNE CHAMBRE D'EJECTION MODULAIRE**
[72] ROY, TODD J., US
[72] MAHER, PETER REID, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-04-20
[86] 2020-12-17 (PCT/US2020/065497)
[87] (WO2022/132147)
[30] US (17/124,617) 2020-12-17

[21] **3,196,333**
[13] A1

[51] **Int.Cl. C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 413/12 (2006.01) C07D 417/12 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **AMINO QUINAZOLINE DERIVATIVES AS P2X3 INHIBITORS**
[54] **DERIVES D'AMINO-QUINAZOLINE UTILISES EN TANT QU'INHIBITEURS DE P2X3**
[72] FIORELLI, CLAUDIO, IT
[72] BRUNO, PAOLO, IT
[72] BIAGETTI, MATTEO, IT
[72] PIZZIRANI, DANIELA, IT
[72] PALA, DANIELE, IT
[72] RONCHI, PAOLO, IT
[72] GUARIENTO, SARA, IT
[72] BAKER-GLENN, CHARLES, IT
[72] VAN DE POEL, HERVE, IT
[72] HIRST, KIM LOUISE, IT
[71] CHIESI FARMACEUTICI S.P.A., IT
[85] 2023-04-20
[86] 2021-11-26 (PCT/EP2021/083141)
[87] (WO2022/112490)
[30] EP (20210189.5) 2020-11-27

[21] **3,196,334**
[13] A1

[51] **Int.Cl. B09B 3/40 (2022.01)**
[25] EN
[54] **METHOD FOR ENZYMATIC AND/OR MICROBIAL PROCESSING OF WASTE COMPRISING RECIRCULATION OF PROCESS WATER**
[54] **PROCEDE DE TRAITEMENT ENZYMATIQUE ET/OU MICROBIEN DE DECHETS COMPRENANT LA RECIRCULATION D'EAU DE TRAITEMENT**
[72] FRISTRUP, PETER, DK
[72] MAKAROV, ILYA, DK
[72] STAHLHUT, STEEN GUSTAV, DK
[72] LONDONO, JORGE ENRIQUE GONZALEZ, DK
[71] RENESCIENCE A/S, DK
[85] 2023-04-20
[86] 2021-11-01 (PCT/EP2021/080236)
[87] (WO2022/096406)
[30] EP (20205654.5) 2020-11-04
[30] EP (20207700.4) 2020-11-16

[21] **3,196,335**
[13] A1

[51] **Int.Cl. C07D 237/30 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **PHTHALAZINE DERIVATIVES AS P2X3 INHIBITORS**
[54] **DERIVES DE PHTHALAZINE UTILISES EN TANT QU'INHIBITEURS DE P2X3**
[72] FIORELLI, CLAUDIO, IT
[72] BRUNO, PAOLO, IT
[72] BIAGETTI, MATTEO, IT
[72] BAKER-GLENN, CHARLES, IT
[72] VAN DE POEL, HERVE, IT
[71] CHIESI FARMACEUTICI S.P.A., IT
[85] 2023-04-20
[86] 2021-11-26 (PCT/EP2021/083146)
[87] (WO2022/112493)
[30] EP (20210200.0) 2020-11-27

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[21] **3,196,337**
[13] A1

[51] **Int.Cl. C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **(AZA)QUINOLINE 4-AMINES DERIVATIVES AS P2X3 INHIBITORS**

[54] **DERIVES DE (AZA)QUINOLEINE 4-AMINES SERVANT D'INHIBITEURS DE P2X3**

[72] FIORELLI, CLAUDIO, IT

[72] BRUNO, PAOLO, IT

[72] BIAGETTI, MATTEO, IT

[72] BAKER-GLENN, CHARLES, IT

[72] VAN DE POEL, HERVE, IT

[71] CHIESI FARMACEUTICI S.P.A., IT

[85] 2023-04-20

[86] 2021-11-26 (PCT/EP2021/083143)

[87] (WO2022/112491)

[30] EP (20210195.2) 2020-11-27

[21] **3,196,339**
[13] A1

[25] EN

[54] **WELL ASSEMBLIES AND RELATED METHODS**

[54] **ENSEMBLES Puits ET PROCEDES ASSOCIES**

[72] MAR, CAMERON, US

[72] TAHERI, PAYAM, US

[72] DELATTRE, CYRIL, US

[72] CRIVELLI, PAUL, US

[72] COX-MURANAMI, WESLEY, US

[72] CAO, ZHENNING, US

[72] BECKMAN, TRAVIS, US

[72] DAVIDSON, JUSTIN, US

[71] ILLUMINA INC., US

[85] 2023-04-20

[86] 2021-11-24 (PCT/US2021/060706)

[87] (WO2022/119744)

[30] US (63/120,130) 2020-12-01

[21] **3,196,341**
[13] A1

[51] **Int.Cl. H04W 4/10 (2009.01) H04W 4/80 (2018.01)**

[25] EN

[54] **EAR-MOUNTED TWO-WAY RADIO SYSTEM**

[54] **SYSTEME RADIO BIDIRECTIONNEL MONTE SUR L'OREILLE**

[72] RACCAH, GUY, HK

[72] DARDEN, WILL, US

[71] MIDLAND RADIO CORPORATION, US

[85] 2023-04-20

[86] 2021-10-26 (PCT/US2021/072025)

[87] (WO2022/094545)

[21] **3,196,342**
[13] A1

[51] **Int.Cl. A61K 38/45 (2006.01) A61K 38/50 (2006.01) A61K 45/06 (2006.01) A61P 27/02 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **PEPTIDE FORMULATIONS AND OPHTHALMIC USES THEREOF**

[54] **FORMULATIONS PEPTIDIQUES ET UTILISATIONS OPHTALMIQUES ASSOCIEES**

[72] GHATNEKAR, GAUTAM, US

[72] GREK, CHRISTINA, US

[71] XEQUEL BIO, INC., US

[85] 2023-04-20

[86] 2021-10-22 (PCT/US2021/056231)

[87] (WO2022/087396)

[30] US (63/104,086) 2020-10-22

[21] **3,196,343**
[13] A1

[51] **Int.Cl. E21B 33/124 (2006.01) E21B 33/127 (2006.01) E21B 34/10 (2006.01)**

[25] EN

[54] **THERMOPLASTIC WITH SWELLABLE METAL FOR ENHANCED SEAL**

[54] **THERMOPLASTIQUE COMPRENANT DU METAL GONFLABLE POUR JOINT D'ETANCHEITE AMELIORE**

[72] LEAST, BRANDON T., US

[72] FRIPP, MICHAEL L., SG

[72] GLAESMAN, CHAD W., SG

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-04-20

[86] 2021-02-03 (PCT/US2021/016371)

[87] (WO2022/164462)

[30] US (17/161,902) 2021-01-29

[21] **3,196,344**
[13] A1

[51] **Int.Cl. B61L 23/04 (2006.01)**

[25] EN

[54] **RAIL FEATURE IDENTIFICATION SYSTEM**

[54] **SYSTEME D'IDENTIFICATION DE CARACTERISTIQUES DE RAIL**

[72] FERNANDEZ, JAVIER, US

[71] HARSCO TECHNOLOGIES LLC, US

[85] 2023-04-20

[86] 2021-10-23 (PCT/US2021/056378)

[87] (WO2022/087506)

[30] US (63/105,057) 2020-10-23

[21] **3,196,345**
[13] A1

[25] EN

[54] **DRUG DELIVERY SYSTEM, AND BARRIER APPARATUS AND PULL TAB THEREFOR**

[54] **SYSTEME D'ADMINISTRATION DE MEDICAMENT, ET APPAREIL DE BARRIERE ET TIRETTE POUR CELUI-CI**

[72] ZEBROWSKI, STEVEN, US

[72] CLASEN, ERIC, US

[71] BECTON, DICKINSON AND COMPANY, US

[85] 2023-04-20

[86] 2021-10-26 (PCT/US2021/056578)

[87] (WO2022/093765)

[30] US (63/106,204) 2020-10-27

[21] **3,196,346**
[13] A1

[51] **Int.Cl. C07K 14/74 (2006.01) C07K 14/705 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR CELLULAR THERAPY**

[54] **METHODES ET COMPOSITIONS POUR THERAPIE CELLULAIRE**

[72] WALDMANN, HERMAN, US

[72] BUCKLE, ASHLEY, US

[72] WOOLFSON, ADRIAN, US

[71] REPLAY HOLDINGS, INC., US

[85] 2023-04-20

[86] 2021-10-19 (PCT/US2021/055682)

[87] (WO2022/087019)

[30] GB (2016659.1) 2020-10-20

[30] GB (2101665.4) 2021-02-05

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[21] **3,196,354**
[13] A1

[51] **Int.Cl. G05D 19/02 (2006.01)**
[25] EN
[54] **SEMI ACTIVE SUSPENSION CONTROL METHODS USING SKYHOOK AND ENDSTOP CONTROL**
[54] **PROCEDES DE COMMANDE DE SUSPENSION SEMI-ACTIVE A L'AIDE D'UNE COMMANDE SKYHOOK ET DE BUTEE**
[72] MATHEW, ABRAHAM, US
[72] MATTSON, MICHAEL, US
[72] CRANMER, JEFFREY, US
[71] LORD CORPORATION, US
[85] 2023-04-20
[86] 2021-11-17 (PCT/US2021/059711)
[87] (WO2022/109015)
[30] US (63/115,819) 2020-11-19

[21] **3,196,431**
[13] A1

[51] **Int.Cl. A61K 47/60 (2017.01)**
[25] EN
[54] **GRANULOCYTE MACROPHAGE-COLONY STIMULATING FACTOR MUTANTS**
[54] **MUTANTS DU FACTEUR DE STIMULATION DE COLONIES DE GRANULOCYTES ET DE MACROPHAGES**
[72] FELDHAUS, MICHAEL, US
[72] YOST, JEFFREY, US
[71] PARTNER THERAPEUTICS, INC., US
[85] 2023-04-21
[86] 2021-10-25 (PCT/US2021/056413)
[87] (WO2022/093671)
[30] US (63/105,425) 2020-10-26
[30] US (63/177,481) 2021-04-21

[21] **3,196,435**
[13] A1

[51] **Int.Cl. A61P 31/04 (2006.01) C07C 257/18 (2006.01)**
[25] EN
[54] **ANALOGUES OF PENTAMIDINE AND METHODS FOR TREATING INFECTIONS**
[54] **ANALOGUES DE PENTAMIDINE ET METHODES DE TRAITEMENT D'INFECTIONS**
[72] PROTTER, ANDREW ASHER, US
[72] LUEDTKE, GREGORY R., US
[72] LUM, PEK YEE, US
[72] HALBERG, ANNA, US
[71] AURANSA INC., US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/072002)
[87] (WO2022/087636)
[30] US (63/104,455) 2020-10-22

[21] **3,196,360**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2023.01)**
[25] EN
[54] **INDIVIDUALIZED ANIMAL MIXED FOOD COMPOSITION**
[54] **COMPOSITION ALIMENTAIRE MIXTE INDIVIDUALISEE POUR ANIMAUX**
[72] BRECIN, KARINE, FR
[72] PEREA, SALLY, US
[72] OSTERMANN, NICOLAS, FR
[72] COCHET, JEROME, FR
[71] MARS, INCORPORATED, US
[85] 2023-04-20
[86] 2021-11-08 (PCT/US2021/058464)
[87] (WO2022/099139)
[30] US (63/198,704) 2020-11-06

[21] **3,196,434**
[13] A1

[25] EN
[54] **METHODS OF TREATING PATIENTS HAVING COMPLEMENT DISORDERS USING ANTI-C5 ANTIBODIES**
[54] **METHODES DE TRAITEMENT DE PATIENTS ATTEINTS DE TROUBLES DU COMPLEMENT A L'AIDE D'ANTICORPS ANTI-C5**
[72] JOHNSON, KRISTA K., US
[72] TAMBURINI, PAUL P., US
[72] SHERIDAN, DOUGLAS L., US
[71] ALEXION PHARMACEUTICALS, INC., US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/056153)
[87] (WO2022/087339)
[30] US (63/105,018) 2020-10-23

[21] **3,196,436**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR EXCHANGING CONFIDENTIAL INFORMATION VIA A BLOCKCHAIN**
[54] **PROCEDES ET SYSTEMES D'ECHANGE D'INFORMATIONS CONFIDENTIELLES PAR L'INTERMEDIAIRE D'UNE CHAINE DE BLOCS**
[72] BAGATIN, FABIO, IT
[72] ROWE, CATHY, CA
[71] CCH INCORPORATED, US
[85] 2023-04-21
[86] 2021-08-30 (PCT/US2021/048148)
[87] (WO2022/093379)
[30] US (17/085,404) 2020-10-30

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[21] **3,196,438**
[13] A1

[51] **Int.Cl. F04B 53/18 (2006.01) F04D 29/12 (2006.01) F16N 7/02 (2006.01) F16N 7/36 (2006.01) F16N 29/02 (2006.01) F16N 29/04 (2006.01)**

[25] EN

[54] **MONITORING SYSTEM FOR PUMP WITH MECHANICAL SEAL LUBRICATION ARRANGEMENT**

[54] **SYSTEME DE SURVEILLANCE POUR POMPE AVEC AGENCEMENT DE LUBRIFICATION DE GARNITURE MECANIQUE**

[72] O'CALLAGHAN, COLIN, US

[72] AMSTAD, LUKE, US

[72] WARREN, WILLIAM JAMES, US

[72] LINDEMAN, ADAM, US

[72] ENTERLINE, ANDREW, US

[71] CORNELL PUMP COMPANY, US

[85] 2023-04-21

[86] 2021-10-22 (PCT/US2021/056162)

[87] (WO2022/087346)

[30] US (63/104,800) 2020-10-23

[21] **3,196,439**
[13] A1

[51] **Int.Cl. A61K 35/761 (2015.01)**

[25] EN

[54] **ENGINEERED VIRAL CAPSIDS AND METHODS OF USE**

[54] **CAPSIDES VIRAUX MODIFIES ET METHODES D'UTILISATION**

[72] LIU, SHENGJIANG, US

[72] CHEN, HAIFENG, US

[72] GONG, XIAOMING, US

[71] AVIRMAX, INC., US

[85] 2023-04-21

[86] 2021-11-09 (PCT/US2021/058650)

[87] (WO2022/103766)

[30] US (63/111,739) 2020-11-10

[21] **3,196,441**
[13] A1

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

[25] EN

[54] **SYNERGISTIC INDUCTION OF IMMUNITY AGAINST RNA VIRUSES**

[54] **INDUCTION SYNERGIQUE D'IMMUNITE CONTRE DES VIRUS A ARN**

[72] KALINSKI, PAWEL, US

[71] HEALTH RESEARCH INC., US

[85] 2023-04-21

[86] 2021-10-22 (PCT/US2021/056330)

[87] (WO2022/087471)

[30] US (63/094,993) 2020-10-22

[30] US (63/105,152) 2020-10-23

[21] **3,196,448**
[13] A1

[25] EN

[54] **SYSTEMS AND APPARATUS FOR DRIP RATE MEASUREMENT FOR MEDICAL FLUID ADMINISTRATION**

[54] **SYSTEMES ET APPAREIL DE MESURE DE DEBIT DE GOUTTE-A-GOUTTE POUR ADMINISTRATION DE FLUIDE MEDICAL**

[72] LEKKALA, NIRANJAN, IN

[72] MENON, KANJIMPUREDATHIL MURALIKRISHNA, IN

[72] SURYAKIRAN, THOTAPALLI, IN

[71] CAREFUSION 303, INC., US

[85] 2023-04-21

[86] 2021-10-28 (PCT/US2021/057036)

[87] (WO2022/094069)

[30] US (17/085,816) 2020-10-30

[21] **3,196,451**
[13] A1

[51] **Int.Cl. A47L 11/38 (2006.01) A47L 11/40 (2006.01)**

[25] EN

[54] **CLUTTER-CLEARING ROBOTIC SYSTEM**

[54] **SYSTEME ROBOTIQUE DE RANGEMENT DE FOUILLIS**

[72] HAMILTON, JUSTIN DAVID, NZ

[72] WOLFE, KALEN FLETCHER, NZ

[72] BANNISTER-SUTTON, JACK ALEXANDER, NZ

[72] FRIZZELL, BRYDEN JAMES, NZ

[71] CLUTTERBOT INC., US

[85] 2023-04-21

[86] 2021-11-30 (PCT/US2021/061143)

[87] (WO2022/115761)

[30] US (63/119,533) 2020-11-30

[30] US (63/253,867) 2021-10-08

[21] **3,196,452**
[13] A1

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

[25] EN

[54] **METHOD AND SYSTEM FOR PREDICTING PROPERTIES OF AMORPHOUS SOLID DISPERSIONS USING MACHINE LEARNING**

[54] **PROCEDE ET SYSTEME DE PREDICTION DES PROPRIETES DE DISPERSIONS SOLIDES AMORPHES A L'AIDE D'UN APPRENTISSAGE MACHINE**

[72] BI, YUNXIA, US

[72] DURIG, THOMAS, US

[72] JACOBSON, SOLOMON HOWARD, US

[71] ISP INVESTMENTS LLC, US

[85] 2023-04-21

[86] 2021-10-27 (PCT/US2021/056841)

[87] (WO2022/093951)

[30] US (63/106,212) 2020-10-27

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[21] **3,196,454**
[13] A1

[51] **Int.Cl. A61K 39/13 (2006.01)**
[25] EN
[54] **METHOD FOR INFECTING CELLS WITH VIRUS**
[54] **PROCEDE POUR INFECTER DES CELLULES AVEC UN VIRUS**
[72] NEWTON, PERRY, US
[72] BERRIE, DALTON, US
[72] GROW, TYLER, US
[72] DOXILLY, SHELDON, US
[72] MONTOYA, CHRISTOPHER J., US
[72] TERPENING, SARA JANE, US
[72] VELA, ERIC, US
[71] OLOGY BIOSERVICES, INC., US
[85] 2023-04-21
[86] 2021-10-23 (PCT/US2021/056381)
[87] (WO2022/087509)
[30] US (63/104,803) 2020-10-23

[21] **3,197,687**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12Q 1/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO A DEVICE AND METHODS FOR FACILITATING MANIPULATION OF MICRODROPLETS**
[54] **AMELIORATIONS APORTEES OU RELATIVES A UN DISPOSITIF ET PROCEDES POUR FACILITER LA MANIPULATION DES MICROGOUTTELETTES**
[72] ATHANASOPOULOU, EVANGELIA-NEFELI, GB
[72] BUSH, JAMES, GB
[72] DEACON, WILLIAM, GB
[72] INGHAM, RICHARD JEREMY, GB
[72] ISAAC, THOMAS, GB
[72] TOPKAYA, IBRAHIM SAYGIN, GB
[72] TALBOT, EMMA, GB
[71] LIGHTCAST DISCOVERY LTD, GB
[85] 2023-03-30
[86] 2021-10-05 (PCT/GB2021/052567)
[87] (WO2022/074374)
[30] GB (2015754.1) 2020-10-05
[30] GB (2015733.5) 2020-10-05
[30] GB (2015744.2) 2020-10-05

[21] **3,198,095**
[13] A1

[51] **Int.Cl. H04N 19/533 (2014.01) H04N 19/44 (2014.01) H04N 19/56 (2014.01) H04N 19/57 (2014.01) H04N 19/577 (2014.01)**
[25] EN
[54] **MULTI-PASS DECODER-SIDE MOTION VECTOR REFINEMENT**
[54] **AFFINEMENT DE VECTEURS DE MOUVEMENT COTE DECODEUR A PASSAGES MULTIPLES**
[72] ZHANG, ZHI, US
[72] HUANG, HAN, US
[72] CHEN, CHUN-CHI, US
[72] ZHANG, YAN, US
[72] SEREGIN, VADIM, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2023-04-05
[86] 2021-12-21 (PCT/US2021/064537)
[87] (WO2022/140338)
[30] US (63/129,221) 2020-12-22
[30] US (17/556,142) 2021-12-20

[21] **3,198,097**
[13] A1

[51] **Int.Cl. H04N 19/597 (2014.01) H04N 19/527 (2014.01) G06T 9/00 (2006.01)**
[25] EN
[54] **GLOBAL MOTION ESTIMATION USING ROAD AND GROUND OBJECT LABELS FOR GEOMETRY-BASED POINT CLOUD COMPRESSION**
[54] **ESTIMATION DE MOUVEMENT GLOBAL A L'AIDE D'ETIQUETTES D'OBJET DE ROUTE ET DE SOL POUR UNE COMPRESSION DE NUAGE DE POINTS BASEE SUR LA GEOMETRIE**
[72] PHAM VAN, LUONG, US
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US
[72] RAY, BAPPADITYA, US
[72] VAN DER AUWERA, GEERT, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2023-04-05
[86] 2021-12-22 (PCT/US2021/064869)
[87] (WO2022/146827)
[30] US (63/131,637) 2020-12-29
[30] US (63/171,945) 2021-04-07
[30] US (17/558,362) 2021-12-21

[21] **3,198,100**
[13] A1

[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/176 (2014.01) H04N 19/192 (2014.01) H04N 19/513 (2014.01) H04N 19/52 (2014.01) H04N 19/523 (2014.01) H04N 19/53 (2014.01) H04N 19/57 (2014.01)**
[25] EN
[54] **TEMPLATE MATCHING IN VIDEO CODING**
[54] **APPARIEMENT DE MODELES EN CODAGE VIDEO**
[72] CHEN, CHUN-CHI, US
[72] HUANG, HAN, US
[72] ZHANG, ZHI, US
[72] SEREGIN, VADIM, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2023-04-05
[86] 2021-12-22 (PCT/US2021/064908)
[87] (WO2022/146833)
[30] US (63/131,676) 2020-12-29
[30] US (17/558,119) 2021-12-21

[21] **3,198,102**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 25/28 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **ANTI-DECTIN-1 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-DECTINE-1 ET LEURS METHODES D'UTILISATION**
[72] FOTAKIS, PANAGIOTIS, US
[72] AH YOUNG-CHAPON ANDREW, P., US
[72] TOMASEVIC, NENAD, US
[72] SHI, RUO SHI, US
[72] DENG, XIAODI, US
[71] DREN BIO, INC., US
[85] 2023-04-05
[86] 2021-10-06 (PCT/US2021/071752)
[87] (WO2022/077006)
[30] US (63/088,895) 2020-10-07
[30] US (63/174,439) 2021-04-13

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[21] **3,198,256**
[13] A1

[51] **Int.Cl. B23K 35/14 (2006.01) B23K 35/26 (2006.01) C22C 13/00 (2006.01) C22C 13/02 (2006.01)**

[25] EN

[54] **SOLDER ALLOY, SOLDER BALL AND SOLDER JOINT**

[54] **ALLIAGE DE SOUDAGE, GLOBULE DE SOUDURE ET JOINT A BRASURE TENDRE**

[72] IJIMA, YUKI, JP

[72] YOSHIKAWA, SHUNSAKU, JP

[72] DEI, KANTA, JP

[72] MATSUFUJI, TAKAHIRO, JP

[72] SUGISAWA, KOTA, JP

[71] SENJU METAL INDUSTRY CO., LTD., JP

[85] 2023-05-10

[86] 2021-11-17 (PCT/JP2021/042233)

[87] (WO2022/107806)

[30] US (63/115,611) 2020-11-19

[21] **3,198,427**
[13] A1

[51] **Int.Cl. G16B 30/00 (2019.01) G16B 40/20 (2019.01)**

[25] EN

[54] **METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR DETERMINING PEPTIDE IMMUNOGENICITY**

[54] **PROCEDE, SYSTEME ET PRODUIT PROGRAMME D'ORDINATEUR POUR DETERMINER L'IMMUNOGENICITE D'UN PEPTIDE**

[72] PFITZER, LENA, BE

[72] FANT, BRUNO, BE

[72] BOGAERT, CEDRIC, BE

[71] MYNEO NV, BE

[85] 2023-04-11

[86] 2021-10-15 (PCT/EP2021/078639)

[87] (WO2022/079255)

[30] EP (20202140.8) 2020-10-15

[21] **3,198,539**
[13] A1

[51] **Int.Cl. G05B 19/418 (2006.01)**

[25] EN

[54] **INTERFACE DEVICE FOR CONNECTING PROCESS CONTROLLERS TO OPC UA PEER DEVICES**

[54] **DISPOSITIF D'INTERFACE DESTINE A CONNECTER DES CONTROLEURS DE PROCESSUS A DES DISPOSITIFS HOMOLOGUES OPC UA**

[72] BRAUN, ROLAND, DE

[72] HOERNICKE, MARIO, DE

[71] ABB SCHWEIZ AG, CH

[85] 2023-05-11

[86] 2021-09-15 (PCT/EP2021/075375)

[87] (WO2022/100909)

[30] EP (20207190.8) 2020-11-12

[21] **3,198,584**
[13] A1

[51] **Int.Cl. B27K 3/02 (2006.01) B27K 3/15 (2006.01) B27K 3/50 (2006.01) B27K 5/00 (2006.01) C08L 5/00 (2006.01)**

[25] EN

[54] **PRODUCTION METHOD FOR MODIFIED LIGNOCELLULOSE MATERIALS**

[54] **PROCEDE DE PRODUCTION DE MATERIAUX LIGNOCELLULOSIQUES MODIFIES**

[72] MILITZ, HOLGER, DE

[72] EMMERICH, LUKAS, DE

[71] GEORG-AUGUST-UNIVERSITAT GOTTINGEN STIFTUNG OFFENTLICHEN RECHTS, DE

[85] 2023-03-08

[86] 2021-09-08 (PCT/EP2021/074636)

[87] (WO2022/053473)

[30] EP (20195348.6) 2020-09-09

[21] **3,198,585**
[13] A1

[51] **Int.Cl. B65G 1/04 (2006.01)**

[25] EN

[54] **A LOAD HANDLING DEVICE**

[54] **DISPOSITIF DE MANIPULATION DE CHARGE**

[72] FLYNN, DAMIAN, GB

[72] HAVEL, MAREK, GB

[71] OCADO INNOVATION LIMITED, GB

[85] 2023-03-08

[86] 2021-09-17 (PCT/EP2021/075703)

[87] (WO2022/058550)

[30] GB (2014789.8) 2020-09-18

[21] **3,198,587**
[13] A1

[51] **Int.Cl. A61K 31/00 (2006.01) A61K 35/35 (2015.01) A61B 10/00 (2006.01) A61K 45/06 (2006.01) B01L 3/00 (2006.01) C12M 1/00 (2006.01)**

[25] EN

[54] **INTEGRATED MICROFLUIDIC SYSTEM FOR THE PROCESSING OF TISSUES INTO CELLULAR SUSPENSIONS**

[54] **SYSTEME MICROFLUIDIQUE INTEGRE POUR TRAITER DES TISSUS EN SUSPENSIONS CELLULAIRES**

[72] HAUN, JERED, US

[72] LOMBARDO, JEREMY A., US

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

[85] 2023-04-12

[86] 2021-10-11 (PCT/US2021/054440)

[87] (WO2022/081488)

[30] US (63/090,497) 2020-10-12

[21] **3,198,588**
[13] A1

[51] **Int.Cl. A61B 1/267 (2006.01)**

[25] EN

[54] **LARYNGOSCOPE AND INTUBATION METHODS**

[54] **LARYNGOSCOPE ET PROCEDES D'INTUBATION**

[72] MOLNAR, ROBERT W., US

[71] WM & DG, INC., US

[85] 2023-04-12

[86] 2021-10-12 (PCT/US2021/054478)

[87] (WO2022/081509)

[30] US (63/090,560) 2020-10-12

[30] US (17/215,521) 2021-03-29

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[21] **3,198,590**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 38/00 (2006.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **BIOENGINEERED T CELL MEDIATED IMMUNITY, MATERIALS AND OTHER METHODS FOR MODULATING CLUSTER OF DIFFERENTIATION IV &/OR VIII**

[54] **IMMUNITE A MEDIATION PAR DES LYMPHOCYTES T BIOLOGIQUEMENT MODIFIES, MATERIAUX ET AUTRES PROCEDES POUR LA MODULATION D'UN ENSEMBLE DE DIFFERENCIATION IV &/OU VIII**

[72] GANESAN, RAJKUMAR, US
[72] SINGH, SANJAYA, US
[72] GREWAL, IQBAL S., US
[72] HANSEN, MICHAEL RIIS, US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054487)
[87] (WO2022/081516)
[30] US (63/091,078) 2020-10-13

[21] **3,198,591**
[13] A1

[51] **Int.Cl. A61K 31/422 (2006.01) A61K 35/17 (2015.01) A61K 31/536 (2006.01) A61K 31/537 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATORIAL IMMUNOTHERAPEUTIC METHODS AND COMPOSITIONS FOR PANCREATIC DUCTAL ADENOCARCINOMA TREATMENT**

[54] **METHODES ET COMPOSITIONS IMMUNOTHERAPEUTIQUES COMBINATOIRES DESTINEES AU TRAITEMENT D'UN ADENOCARCINOME DU CANAL PANCREATIQUE**

[72] DEPINHO, RONALD, US
[72] GULHATI, PAT, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054577)
[87] (WO2022/081572)
[30] US (63/091,065) 2020-10-13

[21] **3,198,592**
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01)**

[25] EN

[54] **TECHNIQUES FOR IMPROVING OCCUPANCY SIMULATIONS AND OPTIMIZING SPACE UTILIZATION**

[54] **TECHNIQUES D'AMELIORATION DE SIMULATIONS D'OCCUPATION ET D'OPTIMISATION DE L'UTILISATION D'ESPACE**

[72] SCHAUMANN, DAVIDE, US
[72] PASQUET, PIERRE, US
[71] THE JOAN AND IRWIN JACOBS TECHNION-CORNELL INSTITUTE, US
[85] 2023-04-12
[86] 2021-10-12 (PCT/IB2021/059358)
[87] (WO2022/079602)
[30] US (63/090,425) 2020-10-12

[21] **3,198,593**
[13] A1

[51] **Int.Cl. G08B 25/10 (2006.01) G06Q 10/06 (2023.01) G06Q 50/08 (2012.01) G06Q 30/00 (2023.01) G08B 29/18 (2006.01) H04Q 9/00 (2006.01) H04Q 9/02 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR BUILDING WATER-LEAK DETECTION AND ALERT**

[54] **SYSTEMES ET PROCEDES DE DETECTION ET D'ALERTE DE FUITE D'EAU DANS LES BATIMENTS**

[72] SHABBIR, USMAN, US
[72] JOYAL, MATTHEW JEAN-MARIE JOSEPH, US
[72] SCHWARZKOPF, ALEXANDER MESSERSMITH, US
[71] RECON PILLAR LLC, US
[85] 2023-04-12
[86] 2021-10-15 (PCT/US2021/055269)
[87] (WO2022/082038)
[30] US (63/092,000) 2020-10-15
[30] US (17/140,805) 2021-01-04

[21] **3,198,594**
[13] A1

[51] **Int.Cl. A61M 16/22 (2006.01) A61M 16/12 (2006.01) B63C 11/18 (2006.01) B63C 11/24 (2006.01)**

[25] EN

[54] **CLOSED-CIRCUIT MIXED GAS DELIVERY SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION DE GAZ MELANGES EN CIRCUIT FERME**

[72] TERAN, MANUEL, US
[72] HERRMANN, ERIK, US
[72] EATON, CANDICE, US
[71] SAIOX, INC., US
[85] 2023-04-12
[86] 2021-10-15 (PCT/US2021/055126)
[87] (WO2022/081941)
[30] US (17/073,021) 2020-10-16

[21] **3,198,596**
[13] A1

[25] EN

[54] **METHOD AND SYSTEMS FOR PHYTOMEDICINE ANALYTICS FOR RESEARCH OPTIMIZATION AT SCALE**

[54] **PROCEDE ET SYSTEMES D'ANALYSE DE PHYTOTHERAPIE PERMETTANT L'OPTIMISATION DE LA RECHERCHE A L'ECHELLE**

[72] SMALL-HOWARD, ANDREA LEE, CA
[72] TURNER, HELEN CATHRYN, CA
[72] STOKES, ALEXANDER JAMES, CA
[71] GBS GLOBAL BIOPHARMA, INC., CA
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/055056)
[87] (WO2022/081889)
[30] US (63/091,816) 2020-10-14
[30] US (63/221,334) 2021-07-13
[30] US (63/221,366) 2021-07-13
[30] US (63/221,358) 2021-07-13
[30] US (63/221,371) 2021-07-13
[30] US (63/221,367) 2021-07-13
[30] US (63/221,364) 2021-07-13

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[21] **3,198,601**
[13] A1

[51] **Int.Cl. A01N 33/12 (2006.01) C08G 18/12 (2006.01) C08G 18/32 (2006.01)**
[25] EN
[54] **HARD SURFACE DISINFECTING COMPOSITION**
[54] **COMPOSITION DE DESINFECTIION DE SURFACE DURE**
[72] MYNNTTI, MATTHEW, US
[71] NEXT SCIENCE IP HOLDINGS PTY LTD, AU
[85] 2023-04-12
[86] 2021-10-14 (PCT/US2021/055043)
[87] (WO2022/081883)
[30] US (63/091,617) 2020-10-14

[21] **3,198,602**
[13] A1

[51] **Int.Cl. A61K 47/69 (2017.01) A61K 47/50 (2017.01) A61L 27/12 (2006.01) A61L 27/32 (2006.01)**
[25] EN
[54] **NANOMATERIAL AND METHODS OF USE THEREOF**
[54] **NANOMATERIAU ET SES PROCEDES D'UTILISATION**
[72] CHEN, YUPENG, US
[71] UNIVERSITY OF CONNECTICUT, US
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/054800)
[87] (WO2022/081721)
[30] US (63/090,832) 2020-10-13

[21] **3,198,603**
[13] A1

[51] **Int.Cl. F03D 1/06 (2006.01) F03D 7/02 (2006.01)**
[25] EN
[54] **METHOD FOR ACCELERATING THE DESTRUCTION OF HELICAL VORTICES IN THE WAKE OF A ROTOR OF A WIND TURBINE IN A WIND FARM**
[54] **PROCEDE D'ACCELERATION DE LA DESTRUCTION DE VORTEX HELICOIDAUX DANS LE SILLAGE D'UN ROTOR D'UNE EOLIEEN DANS UN PARC EOLIEN**
[72] LEWEKE, THOMAS, FR
[72] SORENSEN, JENS, DK
[71] UNIVERSITE D'AIX-MARSEILLE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] CENTRALE MARSEILLE, FR
[71] DANMARKS TEKNISKE UNIVERSITET (DTU), DK
[85] 2023-04-12
[86] 2021-10-08 (PCT/EP2021/077826)
[87] (WO2022/078883)
[30] EP (20201519.4) 2020-10-13

[21] **3,198,604**
[13] A1

[51] **Int.Cl. E21B 47/009 (2012.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED METHOD FOR DETERMINING AN OPERATIONAL PROPERTY OF A DRILL-ROD BOREHOLE PUMP, ANALYSIS DEVICE AND PUMP SYSTEM FOR SAME**
[54] **PROCEDE MIS EN ŒUVRE PAR ORDINATEUR POUR DETERMINER UNE PROPRIETE DE FONCTIONNEMENT D'UNE POMPE DE FORAGE A TIGE DE FORAGE, DISPOSITIF D'ANALYSE ET SYSTEME DE POMPE ASSOCIE**
[72] GSCHIEL, STEFAN, AT
[72] WIMMER, HELMUT, AT
[72] SCHNABL, HELMUT, AT
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2023-04-12
[86] 2021-09-24 (PCT/EP2021/076387)
[87] (WO2022/078734)
[30] EP (20202024.4) 2020-10-15

[21] **3,198,606**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING AND MONITORING FRONTOTEMPORAL DEMENTIA**
[54] **METHODES DE TRAITEMENT ET PROCEDES DE SURVEILLANCE DE DEMENCE FRONTO-TEMPORALE**
[72] ASTARITA, GIUSEPPE, US
[72] DEVOS, SARAH L., US
[72] DI PAOLO, GILBERT, US
[72] FANG, MENG, US
[72] HUANG, FEN, US
[72] LOGAN, TODD P., US
[72] SIMON, MATTHEW J., US
[71] DENALI THERAPEUTICS INC., US
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/071835)
[87] (WO2022/082178)
[30] US (63/091,815) 2020-10-14
[30] US (63/182,567) 2021-04-30

[21] **3,198,607**
[13] A1

[51] **Int.Cl. G16H 50/00 (2018.01) G16H 50/30 (2018.01)**
[25] EN
[54] **PROVIDING GUIDANCE DURING REST AND RECOVERY**
[54] **FOURNITURE DE DIRECTIVES LORS DU REPOS ET DE LA RECUPERATION**
[72] LAAKKONEN, HARRI, FI
[72] TARVAINEN, KAISA, FI
[72] KOSKIMAKI, HELI, FI
[72] STILL, JOHANNA, FI
[72] KUKKA, MATIAS, FI
[72] KINNUNEN, HANNU, FI
[71] OURA HEALTH OY, FI
[85] 2023-04-12
[86] 2021-10-13 (PCT/US2021/054740)
[87] (WO2022/081679)
[30] US (63/090,931) 2020-10-13
[30] US (17/500,023) 2021-10-13

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[21] **3,198,609**
[13] A1

[51] **Int.Cl. C07K 14/435 (2006.01) C07K 14/705 (2006.01) C07K 14/72 (2006.01) G01N 21/64 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **GPCR SCREENING METHOD TO IDENTIFY NON-HALLUCINOGENIC COMPOUNDS**

[54] **METHODE DE CRIBLAGE DE GPCR PERMETTANT D'IDENTIFIER DES COMPOSES NON HALLUCINOGENES**

[72] DONG, CHUNYANG, US

[72] LY, CALVIN, US

[72] OLSON, DAVID, US

[72] TIAN, LIN, US

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

[85] 2023-04-12

[86] 2021-10-13 (PCT/US2021/054669)

[87] (WO2022/081631)

[30] US (63/091,041) 2020-10-13

[30] US (63/182,669) 2021-04-30

[21] **3,198,610**
[13] A1

[51] **Int.Cl. C09J 7/20 (2018.01) C09J 7/26 (2018.01) C09J 7/29 (2018.01) B32B 7/12 (2006.01) B32B 37/12 (2006.01) E04B 1/66 (2006.01)**

[25] EN

[54] **ANTI-TELESCOPING BUILDING ENVELOPE MATERIAL**

[54] **MATERIAU D'ENVELOPPE EXTERIEURE ANTI-TELESCOPIQUE**

[72] EL-TAHLAWY, KHALED, US

[72] KULKARNI, AMEET, US

[71] SHURTAPE TECHNOLOGIES, LLC, US

[85] 2023-04-12

[86] 2021-10-13 (PCT/US2021/054696)

[87] (WO2022/081648)

[30] US (63/091,109) 2020-10-13

[30] US (63/091,073) 2020-10-13

[21] **3,198,611**
[13] A1

[51] **Int.Cl. A43B 5/16 (2006.01) A43B 7/32 (2006.01) A43B 23/08 (2006.01)**

[25] EN

[54] **SKATE WITH TOE CAP EXTENSION**

[54] **PATIN A PROLONGEMENT DE BOUT DE TIGE**

[72] CHAMPAGNE, ETIENNE, CA

[72] FAUCHER, ALEXIS, CA

[72] MAHEUX, SAMUEL, CA

[72] LAPIERRE, PHILIPPE, CA

[71] SPORT MASKA INC., CA

[85] 2023-04-13

[86] 2021-10-15 (PCT/CA2021/051447)

[87] (WO2022/077114)

[30] US (63/092,597) 2020-10-16

[21] **3,198,613**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2023.01) G16H 10/60 (2018.01) G16H 15/00 (2018.01) G16H 20/60 (2018.01) G16H 50/20 (2018.01)**

[25] EN

[54] **NUTRITION AND FITNESS SYSTEM**

[54] **SYSTEME DE NUTRITION ET DE REMISE EN FORME**

[72] JOHNSTON, MARNI NICOLE, AU

[71] JOHNSTON, MARNI NICOLE, AU

[85] 2023-04-12

[86] 2021-10-12 (PCT/AU2021/051187)

[87] (WO2022/077054)

[30] US (63/090,523) 2020-10-12

[21] **3,198,614**
[13] A1

[51] **Int.Cl. B60L 13/10 (2006.01) B61C 17/00 (2006.01)**

[25] EN

[54] **VOLTAGE CONTROL METHOD AND APPARATUS, SYSTEM, AND MAGLEV TRAIN**

[54] **PROCEDE ET APPAREIL DE COMMANDE DE TENSION, SYSTEME ET TRAIN A SUSTENTATION MAGNETIQUE**

[72] WU, DONGHUA, CN

[72] LEI, YANXIAO, CN

[72] ZHANG, ZHIQIANG, CN

[72] WANG, YUNFEI, CN

[72] GAO, XINMAI, CN

[71] CRRC QINGDAO SIFANG CO., LTD., CN

[85] 2023-04-13

[86] 2021-05-24 (PCT/CN2021/095375)

[87] (WO2022/077909)

[30] CN (202011096586.8) 2020-10-14

[21] **3,198,615**
[13] A1

[51] **Int.Cl. G09F 3/02 (2006.01) G16H 10/40 (2018.01) G01N 37/00 (2006.01) G09F 3/10 (2006.01)**

[25] EN

[54] **LABEL FOR MATRIX TUBES**

[54] **ETIQUETTE POUR TUBES DE MATRICE**

[72] AMBARTSOUMIAN, GOURGEN, CA

[71] AMBARTSOUMIAN, GOURGEN, CA

[85] 2023-04-12

[86] 2021-10-15 (PCT/CA2021/051452)

[87] (WO2022/077118)

[30] US (63/092,146) 2020-10-15

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[21] **3,198,618**
[13] A1

[51] **Int.Cl. B61F 19/04 (2006.01)**
[25] EN
[54] **VEHICLE BODY COLLISION ENERGY ABSORPTION STRUCTURE AND RAIL VEHICLE STRUCTURE D'ABSORPTION D'ENERGIE DE COLLISION DE CARROSSERIE DE VEHICULE ET VEHICULE FERROVIAIRE**
[72] LIN, PENG, CN
[72] CHE, QUANWEI, CN
[72] TIAN, HONGLEI, CN
[72] JIANG, XIN, CN
[72] YANG, ZEYUN, CN
[72] SHANG, KEMING, CN
[72] GU, LIXIANG, CN
[72] JIANG, LIANG, CN
[72] DONG, XIAO, CN
[72] WANG, XIAOJIE, CN
[71] **CRRC QINGDAO SIFANG CO., LTD., CN**
[85] 2023-04-13
[86] 2021-07-22 (PCT/CN2021/107798)
[87] (WO2022/088780)

[21] **3,198,621**
[13] A1

[51] **Int.Cl. A61N 2/00 (2006.01) A61N 2/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TARGETED NEUROMODULATION**
[54] **SYSTEMES ET PROCEDES DE NEUROMODULATION CIBLEE**
[72] WILLIAMS, NOLAN R., US
[72] MARON-KATZ, ADI, US
[71] **THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US**
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054633)
[87] (WO2022/081611)
[30] US (63/090,680) 2020-10-12

[21] **3,198,622**
[13] A1

[51] **Int.Cl. E21B 47/14 (2006.01) E21B 47/16 (2006.01) F15D 1/02 (2006.01) F16L 55/02 (2006.01) F16L 55/027 (2006.01) F16L 55/04 (2006.01)**
[25] EN
[54] **SURFACE EQUIPMENT PROTECTION FROM BOREHOLE PULSATION ENERGIES**
[54] **PROTECTION D'EQUIPEMENT DE SURFACE CONTRE DES ENERGIES DE PULSATION DE TROU DE FORAGE**
[72] LOVE, LUCAS, US
[72] MATHIAK, GREGG, US
[72] ROGERS, JOHN THOMAS, US
[72] JANTZON, CERSTEN, US
[71] **PERFORMANCE PULSATION CONTROL, INC., US**
[85] 2023-04-12
[86] 2021-10-12 (PCT/US2021/054621)
[87] (WO2022/081603)
[30] US (63/090,613) 2020-10-12

[21] **3,198,623**
[13] A1

[51] **Int.Cl. B23K 9/32 (2006.01) B23K 35/36 (2006.01) B23K 35/362 (2006.01)**
[25] EN
[54] **WELDING FLUX COMPOSITION AND CORRESPONDING METHOD FOR WELDING METALS**
[54] **COMPOSITION DE FLUX DE SOUDAGE ET PROCEDE CORRESPONDANT DE SOUDAGE DE METAUX**
[72] MANJON FERNANDEZ, ALVARO, ES
[72] PEREZ RODRIGUEZ, MARCOS, ES
[72] GERRITSEN, CHRISTOPHER, BE
[71] **VERDICIO SOLUTIONS A.I.E., ES**
[85] 2023-04-12
[86] 2020-10-21 (PCT/IB2020/059871)
[87] (WO2022/084716)

[21] **3,198,626**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12P 19/56 (2006.01)**
[25] EN
[54] **MICROORGANISMS FOR DITERPENE PRODUCTION**
[54] **MICROORGANISMES POUR LA PRODUCTION DE DITERPENES**
[72] KOLEN, CATHARINA
PETRONELLA ANTONIA MARIA, NL
[71] **DSM IP ASSETS B.V., NL**
[71] **CARGILL, INCORPORATED, US**
[85] 2023-04-13
[86] 2021-10-21 (PCT/EP2021/079290)
[87] (WO2022/084482)
[30] EP (20203470.8) 2020-10-22
[30] EP (20215939.8) 2020-12-21

[21] **3,198,627**
[13] A1

[51] **Int.Cl. A23L 33/00 (2016.01) A61K 36/185 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IMMATURE POMEGRANATE EXTRACT FORMULATIONS**
[54] **FORMULATIONS D'EXTRAITS DE GRENADE IMMATURE**
[72] SIRACUSA, LAURA, IT
[72] DRAGO, CARMELO, IT
[72] RUBERTO, GIUSEPPE, IT
[72] PITARI, GIOVANNI MARIO, IT
[71] **CONSIGLIO NAZIONALE DELLE RICERCHE, IT**
[71] **VERA SALUS RICERCA S.R.L., IT**
[85] 2023-04-12
[86] 2021-10-12 (PCT/IB2021/059338)
[87] (WO2022/079592)
[30] IT (10202000023920) 2020-10-12

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[21] **3,198,628**
[13] A1

[51] **Int.Cl. A61P 21/00 (2006.01) A61P 21/02 (2006.01) A61P 23/00 (2006.01) C07D 405/12 (2006.01)**

[25] EN

[54] **METHODS FOR CONTROLLING AND PREDICTING RECOVERY AFTER NMBA ADMINISTRATION**

[54] **METHODES DE CONTROLE ET DE PREDICTION DE LA RECUPERATION APRES ADMINISTRATION DE NMBA**

[72] SAVARESE, JOHN J., US

[71] CORNELL UNIVERSITY, US

[85] 2023-04-12

[86] 2021-10-15 (PCT/US2021/055289)

[87] (WO2022/082051)

[30] US (63/093,179) 2020-10-17

[21] **3,198,630**
[13] A1

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

[25] EN

[54] **SYSTEMS AND METHODS FOR PREVENTING CORROSION OF DRILL EQUIPMENT DUE TO DRILLING FLUID**

[54] **SYSTEMES ET PROCEDES DE PREVENTION CONTRE LA CORROSION D'UN EQUIPEMENT DE FORAGE DUE A UN FLUIDE DE FORAGE**

[72] STAVO, OVE, US

[71] TRANSOCEAN SERVICES AS, NO

[85] 2023-04-13

[86] 2021-10-13 (PCT/EP2021/078356)

[87] (WO2022/079120)

[30] US (63/090,978) 2020-10-13

[21] **3,198,631**
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61F 9/007 (2006.01) A61F 9/008 (2006.01) A61F 9/009 (2006.01) A61F 9/013 (2006.01)**

[25] EN

[54] **SILICONE DEVICE FOR CORNEAL CROSS-LINKING**

[54] **DISPOSITIF EN SILICONE POUR RETICULATION CORNEENNE**

[72] LOBANOFF, MARK, US

[71] LOBANOFF, MARK, US

[85] 2023-04-12

[86] 2021-10-18 (PCT/US2021/055425)

[87] (WO2022/082104)

[30] US (63/092,759) 2020-10-16

[21] **3,198,632**
[13] A1

[51] **Int.Cl. C21B 13/14 (2006.01) C21C 5/28 (2006.01)**

[25] EN

[54] **STEEL PRODUCTION FROM IRON SMELT**

[54] **PRODUCTION D'ACIER A PARTIR DE BAIN DE FUSION DE FER**

[72] WURM, JOHANN, AT

[72] MILLNER, ROBERT, AT

[72] REIN, NORBERT, AT

[71] PRIMETALS TECHNOLOGIES AUSTRIA GMBH, AT

[85] 2023-04-13

[86] 2021-10-28 (PCT/EP2021/079977)

[87] (WO2022/090390)

[30] EP (20204857.5) 2020-10-30

[21] **3,198,633**
[13] A1

[51] **Int.Cl. A61B 17/15 (2006.01) A61B 17/00 (2006.01) A61B 17/17 (2006.01) A61B 17/56 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **CUTTING GUIDE APPARATUS FOR USE IN ORTHOPEDIC SURGERY**

[54] **APPAREIL DE GUIDAGE DE COUPE DESTINE A ETRE UTILISE EN CHIRURGIE ORTHOPEDIQUE**

[72] MILELLA, MICHAEL J., US

[72] HALE, LANE, US

[71] ECA MEDICAL INSTRUMENTS, INC., US

[85] 2023-04-12

[86] 2021-10-20 (PCT/US2021/055913)

[87] (WO2022/087178)

[30] US (17/075,220) 2020-10-20

[21] **3,198,635**
[13] A1

[51] **Int.Cl. C07D 217/04 (2006.01) A61K 31/472 (2006.01) A61K 31/4725 (2006.01) A61P 25/16 (2006.01) A61P 25/18 (2006.01) A61P 25/28 (2006.01) C07D 217/16 (2006.01)**

[25] EN

[54] **OCTAHYDROISOQUINOLINYL DERIVATIVES**

[54] **DERIVES D'OCTAHYDROISOQUINOLINYLE**

[72] ATES, ALI, BE

[72] BURSENS, PIERRE, BE

[72] HALL, ADRIAN, BE

[72] PROVINS, LAURENT, BE

[72] SKOLC, DAVID, BE

[72] VALADE, ANNE, BE

[71] UCB BIOPHARMA SRL, BE

[85] 2023-04-13

[86] 2021-12-01 (PCT/EP2021/083833)

[87] (WO2022/117678)

[30] EP (20211398.1) 2020-12-03

[21] **3,198,636**
[13] A1

[51] **Int.Cl. H02J 7/00 (2006.01) H02J 7/02 (2016.01) H02J 7/06 (2006.01) H02J 7/12 (2006.01) H02J 7/26 (2006.01) H02J 7/28 (2006.01)**

[25] EN

[54] **BATTERY CADDY HAVING MAGNETIC RETAINING FEATURE**

[54] **BOITIER POUR PILES RECHARGEABLES COMPORTANT UN ELEMENT DE RETENUE MAGNETIQUE**

[72] FOREMAN, RICHARD, US

[71] TOOLS AVIATION, LLC, US

[85] 2023-04-12

[86] 2021-10-23 (PCT/US2021/056375)

[87] (WO2022/087504)

[30] US (63/104,720) 2020-10-23

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[21] **3,198,640**
[13] A1

[51] **Int.Cl. G02C 7/04 (2006.01)**
[25] EN
[54] **CONTACT LENS POSITION AND ROTATION CONTROL USING THE PRESSURE OF THE EYELID MARGIN**

[54] **COMMANDE DE POSITION ET DE ROTATION DE LENTILLE DE CONTACT A L'AIDE DE LA PRESSION DU BORD DE LA PAUPIERE**

[72] FRANKLIN, ROSS, US
[72] TONER, ADAM, US
[72] COLLINS, MICHAEL, AU
[72] DAVIS, BRETT, AU
[72] SHAW, ALYRA, AU
[71] JOHNSON & JOHNSON VISION CARE, INC., US
[85] 2023-04-12
[86] 2021-10-13 (PCT/IB2021/059402)
[87] (WO2022/079630)
[30] US (17/069,232) 2020-10-13

[21] **3,198,641**
[13] A1

[51] **Int.Cl. B31B 50/00 (2017.01) B31B 50/04 (2017.01) B31B 50/07 (2017.01) B31B 50/14 (2017.01) B31B 50/22 (2017.01) B31B 50/88 (2017.01) B41F 5/02 (2006.01) B41F 5/24 (2006.01) B41F 13/00 (2006.01) B41F 13/56 (2006.01) B41F 19/00 (2006.01) B41F 21/00 (2006.01) B41F 33/08 (2006.01) B65H 5/22 (2006.01) B65H 5/38 (2006.01) B65H 29/24 (2006.01) B65H 29/52 (2006.01)**

[25] EN
[54] **INVERSION TRANSFER MODULE FOR A CONVERTING MACHINE**

[54] **MODULE DE TRANSFERT D'INVERSION POUR UNE MACHINE DE CONVERSION**

[72] VERNAY, ERIC, FR
[71] BOBST LYON, FR
[85] 2023-04-13
[86] 2021-11-16 (PCT/EP2021/081793)
[87] (WO2022/106393)
[30] EP (20315459.6) 2020-11-19

[21] **3,198,642**
[13] A1

[51] **Int.Cl. B32B 5/02 (2006.01) B32B 7/09 (2019.01) A41D 1/00 (2018.01) A41D 27/24 (2006.01) A41D 31/02 (2019.01) B32B 5/06 (2006.01) B32B 5/26 (2006.01) A41D 1/04 (2006.01) A41D 1/06 (2006.01)**

[25] EN
[54] **PRINTED COMPOSITE NONWOVEN TEXTILE SUITABLE FOR APPAREL AND METHODS FOR PRODUCING THE SAME**

[54] **TEXTILE NON-TISSE COMPOSITE IMPRIME APPROPRIE POUR DE L'HABILLEMENT ET PROCEDES DE PRODUCTION CORRESPONDANTS**

[72] BRANDT, BARON C., US
[72] LUND, DALLAS, US
[72] MCFARLAND, WILLIAM C., II, US
[72] MORGAN, DANIEL P., US
[72] OU, YANG-HUA, TW
[72] STAUB, ANDREA J., US
[72] TURNER, DAVID, US
[71] NIKE INNOVATE C.V., US
[85] 2023-04-12
[86] 2021-10-29 (PCT/US2021/057210)
[87] (WO2022/094184)
[30] US (63/108,229) 2020-10-30
[30] US (17/513,478) 2021-10-28

[21] **3,198,643**
[13] A1

[51] **Int.Cl. C21C 5/52 (2006.01) C21C 5/56 (2006.01)**

[25] EN
[54] **SCRAP INVENTORY MANAGEMENT METHOD**

[54] **PROCEDE DE GESTION D'INVENTAIRE DE DECHETS**

[72] ENA RODRIGUEZ, BORJA, ES
[72] VALLEDOR PELLICER, PABLO, ES
[72] FERNANDEZ ALONSO, ALEJANDRO, ES
[72] DIAZ FIDALGO, DIEGO, ES
[71] ARCELORMITTAL, LU
[85] 2023-04-12
[86] 2021-12-01 (PCT/IB2021/061157)
[87] (WO2022/118201)
[30] IB (PCT/IB2020/061424) 2020-12-03

[21] **3,198,644**
[13] A1

[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/16 (2006.01) C08G 18/20 (2006.01) C08G 18/22 (2006.01) C08G 18/30 (2006.01) C08G 18/32 (2006.01) C08G 18/48 (2006.01) C08G 18/66 (2006.01) C08G 18/76 (2006.01) C08J 9/00 (2006.01) C08J 9/12 (2006.01) C08J 11/04 (2006.01)**

[25] EN
[54] **ELASTOMERIC POLYURETHANE-POLYUREA COMPRISING WATER BLOWN FOAM HAVING IMPROVED MECHANICAL PROPERTIES**

[54] **POLYURETHANE-POLYUREE ELASTOMERE COMPRENANT UNE MOUSSE SOUFFLEE A L'EAU AYANT DES PROPRIETES MECANIKES AMELIOREES**

[72] VANROY, BRAM, BE
[72] VERBEKE, HUGO, BE
[72] JANSSENS, BERT, BE
[72] VAN LOOY, KEVIN, BE
[71] HUNTSMAN INTERNATIONAL LLC, US
[85] 2023-04-13
[86] 2021-11-04 (PCT/EP2021/080680)
[87] (WO2022/096599)
[30] EP (20205810.3) 2020-11-05

[21] **3,198,645**
[13] A1

[51] **Int.Cl. H04W 4/02 (2018.01) F42B 35/00 (2006.01) G02B 21/00 (2006.01) G02B 21/36 (2006.01)**

[25] EN
[54] **BULLET CASING ILLUMINATION MODULE AND FORENSIC ANALYSIS SYSTEM USING THE SAME**

[54] **MODULE D'ECLAIRAGE DE DOUILLE DE BALLE ET SYSTEME D'ANALYSE MEDICO-LEGALE L'UTILISANT**

[72] SCHWENK, DIRK, US
[72] OLSEN, DAVID, US
[72] BREBNER, DAVID, US
[72] POOLE, ROBERT H., US
[72] LAUDER, GARY, US
[72] MCSHEERY, TRACY, US
[72] FERTIK, MICHAEL, US
[71] IBALLISTIX, INC., US
[85] 2023-04-12
[86] 2021-11-02 (PCT/US2021/057748)
[87] (WO2022/098657)
[30] US (63/109,331) 2020-11-03
[30] US (63/109,318) 2020-11-03

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[51] **Int.Cl. A61K 38/46 (2006.01) C12Q 1/686 (2018.01) A61P 35/00 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **SSU72 PROTEIN OR POLYNUCLEOTIDE FOR TREATING AND DIAGNOSING LIVER CANCER**

[54] **PROTEINE SSU72 OU POLYNUCLEOTIDE POUR LE TRAITEMENT ET LE DIAGNOSTIC DU CANCER DU FOIE**

[72] LEE, CHANG WOO, KR
[72] LEE, JIN KWAN, KR
[72] KIM, HYUN SOO, KR
[72] KIM, JAE-KYUNG, KR
[72] YOON, JOON SUP, KR
[71] CUROGEN TECHNOLOGY CO., LTD., KR

[71] RESEARCH & BUSINESS FOUNDATION SUNGKYUNKWAN UNIVERSITY, KR

[85] 2023-04-12
[86] 2022-01-19 (PCT/IB2022/050421)
[87] (WO2022/157630)
[30] KR (10-2021-0008251) 2021-01-20

[21] **3,198,647**
[13] A1

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

[25] EN

[54] **ANTI-CCR8 MONOCLONAL ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS MONOCLONAUX ANTI-CCR8 ET LEURS UTILISATIONS**

[72] LI, RUNSHENG, CN
[72] HUANG, WENTAO, CN
[71] LANOVA MEDICINES LIMITED, CN

[85] 2023-04-13
[86] 2021-10-11 (PCT/CN2021/122994)
[87] (WO2022/078277)
[30] CN (PCT/CN2020/121494) 2020-10-16

[21] **3,198,648**
[13] A1

[51] **Int.Cl. B23K 26/00 (2014.01) B23K 26/34 (2014.01) B23K 35/02 (2006.01) B23K 35/30 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/18 (2006.01) C22C 38/22 (2006.01) C22C 38/24 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/36 (2006.01) C22C 38/44 (2006.01) C22C 38/46 (2006.01) F16C 13/00 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURING A HOT ROLLING MILL ROLL BY LASER CLADDING**

[54] **PROCEDE DE FABRICATION D'UN ROULEAU DE LAMINOIR A CHAUD PAR GAINAGE LASER**

[72] WALMAG, GISELE, BE
[72] ESSER, GREGORY, BE
[72] SINNAEVE, MARIO, BE
[71] CENTRE DE RECHERCHES METALLURGIQUES ASBL, BE

[85] 2023-04-13
[86] 2021-10-13 (PCT/EP2021/078329)
[87] (WO2022/079108)
[30] EP (20201483.3) 2020-10-13

[21] **3,198,649**
[13] A1

[51] **Int.Cl. F03B 3/04 (2006.01) F03B 3/12 (2006.01) F03B 11/00 (2006.01) F03B 17/06 (2006.01)**

[25] EN

[54] **HYDROELECTRIC ENERGY SYSTEMS AND METHODS FOR MECHANICAL POWER TRANSMISSION AND CONVERSION**

[54] **SYSTEMES ET PROCEDES D'ENERGIE HYDROELECTRIQUE POUR LA TRANSMISSION ET LA CONVERSION DE PUISSANCE MECANIQUE**

[72] POWER III, DANIEL E., US
[71] OCEANA ENERGY COMPANY, US

[85] 2023-04-12
[86] 2021-11-16 (PCT/US2021/059497)
[87] (WO2022/108918)
[30] US (63/114,770) 2020-11-17

[21] **3,198,650**
[13] A1

[51] **Int.Cl. C30B 25/10 (2006.01)**

[25] EN

[54] **A PROCESS FOR PRODUCING DIAMONDS**

[54] **PROCEDE DE PRODUCTION DE DIAMANTS**

[72] MISTRY, JAYESHKUMAR DHIRAJLAL, IN
[72] MISTRY, ABHISHEK JAYESHKUMAR, IN
[71] MISTRY, JAYESHKUMAR DHIRAJLAL, IN
[71] MISTRY, ABHISHEK JAYESHKUMAR, IN

[85] 2023-04-12
[86] 2021-10-13 (PCT/IN2021/050982)
[87] (WO2022/079735)
[30] IN (202021044550) 2020-10-13

[21] **3,198,651**
[13] A1

[51] **Int.Cl. B65D 83/00 (2006.01)**

[25] EN

[54] **APPLICATION DEVICE AND METHOD FOR PRODUCING AN APPLICATION DEVICE**

[54] **DISPOSITIF D'APPLICATION ET PROCEDE DE PRODUCTION D'UN DISPOSITIF D'APPLICATION**

[72] WOLF, KARSTEN, DE
[72] RUSHE, PETER, DE
[72] RUTHE-STEINSIEK, KAI, DE
[71] HENKEL AG & CO. KGAA, DE

[85] 2023-04-13
[86] 2021-09-30 (PCT/EP2021/076935)
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[30] EP (20201502.0) 2020-10-13

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[13] A1

[51] **Int.Cl. A01H 6/54 (2018.01) A23J 1/00 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **LEGHEMOGLOBIN IN SOYBEAN**
[54] **LEGHEMOGLOBINE DANS DU SOJA**
[72] CHO, HYEON-JE, US
[72] EVERARD, JOHN D., US
[72] KINNEY, ANTHONY J., US
[72] LIU, ZHAN-BIN, US
[72] MEYER, KNUT, US
[72] PATTERSON, THOMAS G., US
[72] RIPP, KEVIN G, US
[72] SHEN, BO, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2023-04-12
[86] 2021-10-22 (PCT/US2021/071984)
[87] (WO2022/094532)
[30] US (63/106,519) 2020-10-28

[21] **3,198,654**
[13] A1

[51] **Int.Cl. A61B 17/16 (2006.01)**
[25] EN
[54] **SURGICAL CUTTING TOOL**
[54] **OUTIL DE COUPE CHIRURGICAL**
[72] SIDEBOTHAM, CHRISTOPHER G., US
[72] ROITBURG, LEON, US
[72] LEWIS, RANDALL J., US
[71] LRS SCIENCE AND TECHNOLOGY, LLC, US
[85] 2023-04-13
[86] 2021-10-11 (PCT/US2021/054429)
[87] (WO2022/086748)
[30] US (63/093,717) 2020-10-19

[21] **3,198,655**
[13] A1

[51] **Int.Cl. C01B 15/023 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PREPARING HYDROGEN PEROXIDE**
[54] **PROCEDE ET SYSTEME DE PREPARATION DE PEROXYDE D'HYDROGENE**
[72] GAO, GUOHUA, CN
[72] TIAN, YANAN, CN
[72] YANG, KEYONG, CN
[72] ZONG, BAONING, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] RESEARCH INSTITUTE OF PETROLEUM PROCESSING, SINOPEC, CN
[85] 2023-04-13
[86] 2021-10-14 (PCT/CN2021/123748)
[87] (WO2022/078427)
[30] CN (202011095895.3) 2020-10-14

[21] **3,198,656**
[13] A1

[51] **Int.Cl. A61K null/A61K 39 (1974.07)**
[25] EN
[54] **HIGH DOSE SHIGELLA VACCINE PREPARATION**
[54] **PREPARATION DE VACCIN CONTRE LA SHIGELLA A DOSE ELEVEE**
[72] NAGY, ESZTER, AT
[72] HENICS, TAMAS, AT
[72] GIRARDI, PETRA, AT
[72] NEUHAUSER, IRENE, AT
[72] HARUTYUNYAN, SHUSHAN, AT
[72] NAGY, GABOR, HU
[72] SZIJARTO, VALERIA, AT
[71] EVELIQUIRE BIOTECHNOLOGIES GMBH, AT
[85] 2023-04-13
[86] 2021-09-24 (PCT/EP2021/076378)
[87] (WO2022/078732)
[30] EP (20201844.6) 2020-10-14

[21] **3,198,657**
[13] A1

[51] **Int.Cl. A61K 35/16 (2015.01) A61K 9/00 (2006.01) A61K 38/39 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS PROMOTING GROWTH OF PERIPHERAL NERVOUS TISSUE**
[54] **COMPOSITIONS ET PROCEDES FAVORISANT LA CROISSANCE DE TISSU NERVEUX PERIPHERIQUE**
[72] BEHFAR, ATTA, US
[72] AMADIO, PETER C., US
[71] BEHFAR, ATTA, US
[71] AMADIO, PETER C., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH (MAYO), US
[85] 2023-04-13
[86] 2021-10-12 (PCT/US2021/054547)
[87] (WO2022/081557)
[30] US (63/091,240) 2020-10-13
[30] US (63/234,567) 2021-08-18

[21] **3,198,658**
[13] A1

[51] **Int.Cl. F24S 20/66 (2018.01) F24S 70/20 (2018.01) F24S 70/225 (2018.01) F24S 70/25 (2018.01) F24S 70/30 (2018.01)**
[25] EN
[54] **DEFORMABLE COMPOSITE MATERIAL FOR UNCOVERED SOLAR ENERGY ABSORBENT COLLECTOR PANELS WITH LOW INFRARED RADIATION LOSSES**
[54] **MATERIAU COMPOSITE DEFORMABLE POUR PANNEAUX DE COLLECTEUR ABSORBANT L'ENERGIE SOLAIRE NON COUVERTS A FAIBLES PERTES DE RAYONNEMENT INFRAROUGE**
[72] DASBACH, REINHARD, DE
[71] ALMECO GMBH, DE
[85] 2023-04-13
[86] 2021-09-21 (PCT/EP2021/075878)
[87] (WO2022/089840)
[30] EP (20203830.3) 2020-10-26

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[13] A1

[51] **Int.Cl. A61K 35/761 (2015.01) A61K 38/50 (2006.01) A61K 38/51 (2006.01)**
[25] EN
[54] **METHODS FOR REVERSING HEPATIC STEATOSIS**
[54] **PROCEDES D'INVERSION DE LA STEATOSE HEPATIQUE**
[72] CHAE, LEE HEIL, US
[72] LEVINE, FRED, US
[71] BRIGHTSEED, INC., US
[71] SANFORD-BURNHAM MEDICAL RESEARCH INSTITUTE, US
[85] 2023-04-13
[86] 2021-10-12 (PCT/US2021/054570)
[87] (WO2022/081567)
[30] US (63/091,766) 2020-10-14

[21] **3,198,660**
[13] A1

[51] **Int.Cl. B01J 29/80 (2006.01) C10G 45/12 (2006.01) C10G 47/20 (2006.01)**
[25] EN
[54] **CHEMICAL HYDROCRACKING CATALYST, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF**
[54] **CATALYSEUR D'HYDROCRAQUAGE CHIMIQUE, SON PROCEDE DE PREPARATION, ET SON APPLICATION**
[72] ZHENG, JUNLIN, CN
[72] JIANG, XIANGDONG, CN
[72] GAO, HUANXIN, CN
[72] LI, CHENG, CN
[72] SONG, QI, CN
[72] KONG, DEJIN, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
[85] 2023-04-13
[86] 2021-10-18 (PCT/CN2021/124302)
[87] (WO2022/083526)
[30] CN (202011115942.6) 2020-10-19

[21] **3,198,661**
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01)**
[25] EN
[54] **METHODS OF TREATING FIBROSIS**
[54] **METHODES DE TRAITEMENT DE LA FIBROSE**
[72] DE LOS RIOS, MIGUEL, US
[72] HOOD, JOHN, US
[72] DIFRANCESCO, ANITA, US
[71] ENDEAVOR BIOMEDICINES, INC., US
[85] 2023-04-13
[86] 2021-10-13 (PCT/US2021/054713)
[87] (WO2022/081661)
[30] US (63/091,128) 2020-10-13

[21] **3,198,663**
[13] A1

[51] **Int.Cl. A61K 47/34 (2017.01) A61K 47/50 (2017.01) A61K 31/00 (2006.01) A61K 47/00 (2006.01)**
[25] EN
[54] **POLYMER-CONJUGATED MICROBUBBLES FOR HIGH DRUG/GENE LOADING**
[54] **MICROBULLES CONJUGUEES A UN POLYMERE POUR UNE CHARGE ELEVEE DE MEDICAMENT/GENE**
[72] LUX, JACQUES, US
[72] KHORSANDI, SINA, US
[72] DE GRACIA LUX, CAROLINE, US
[72] MATTREY, ROBERT F., US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2023-04-13
[86] 2021-10-13 (PCT/US2021/054820)
[87] (WO2022/081738)
[30] US (63/091,204) 2020-10-13

[21] **3,198,665**
[13] A1

[51] **Int.Cl. B02C 13/26 (2006.01) B02C 19/00 (2006.01) B02C 25/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR CHANGING THE HAMMERS OF A SHREDDER AND RELATIVE METHOD**
[54] **SYSTEME POUR CHANGER LES MARTEAUX D'UNE DECHIQUETEUSE ET PROCEDE ASSOCIE**
[72] GIACOMEL, ALESSIO, IT
[72] BRAGA, DAVIDE, IT
[71] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT
[85] 2023-04-13
[86] 2021-10-21 (PCT/IB2021/059712)
[87] (WO2022/084906)
[30] IT (102020000024889) 2020-10-21

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[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTIBODY-DRUG CONJUGATE AND APPLICATION THEREOF**
[54] **CONJUGUE ANTICORPS-MEDICAMENT ET SON APPLICATION**
[72] HU, CHAOHONG, CN
[72] LI, HU, CN
[72] CHEN, BO, CN
[72] XU, GANG, CN
[72] WANG, YING, CN
[71] SHANGHAI MIRACOGEN INC., CN
[71] KEYMED BIOSCIENCES CO., LTD, CN
[85] 2023-04-13
[86] 2021-10-19 (PCT/CN2021/124698)
[87] (WO2022/078523)
[30] CN (202011105383.0) 2020-10-15

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[51] Int.Cl. A61K 47/61 (2017.01) A61K 47/64 (2017.01) A61K 47/68 (2017.01) A61P 27/02 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01) C07K 16/22 (2006.01)	[51] Int.Cl. C12N 9/78 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C12N 15/11 (2006.01) C12N 15/62 (2006.01)	[51] Int.Cl. C12N 15/86 (2006.01) C12N 15/87 (2006.01)
[25] EN	[25] EN	[25] EN
[54] HYALURONIC ACID BINDING DERIVATIVES OF VERSICAN (VG1) FOR LONG ACTING DELIVERY OF THERAPEUTICS	[54] COMPOSITIONS AND METHODS FOR TREATING GLYCOGEN STORAGE DISEASE TYPE 1A	[54] RECOMBINANT ADENO-ASSOCIATED VIRUS COMPOSITIONS AND METHODS FOR PRODUCING SAME
[54] DERIVES DE VERSICAN (VG1) SE LIANT A L'ACIDE HYALURONIQUE POUR L'ADMINISTRATION A LONGUE DUREE D'ACTION DE PRODUITS THERAPEUTIQUES	[54] COMPOSITIONS ET METHODES DE TRAITEMENT DE LA MALADIE DE STOCKAGE DU GLYCOGENE DE TYPE 1A	[54] COMPOSITIONS DE VIRUS ADENO-ASSOCIES RECOMBINANTS ET PROCEDES POUR LES PRODUIRE
[72] KELLEY, ROBERT FRANKLIN, JR., US	[72] CAFFERTY, BRIAN, US	[72] DAI, YONG, US
[72] MEHTA, SHRENIK CHETAN, US	[72] BOHNUUD, TANGGIS, US	[72] ZHOU, JINGMIN, US
[72] TESAR, DEVIN BRENT, US	[72] CHENG, LO-I, US	[72] DANIELS, GARRETT, US
[72] HANNOUSH, RAMI, US	[72] PACKER, MICHAEL, US	[72] CHAN, JONATHAN, US
[72] HANSEN, SIMON THEODOR, US	[72] ARATYN-SCHAUS, YVONNE, US	[72] HALLER, JORGE, US
[72] DENGL, STEFAN, DE	[71] BEAM THERAPEUTICS INC., US	[72] NELSON, STUART, US
[72] KETTENBERGER, HUBERT, DE	[85] 2023-04-13	[71] PREVAIL THERAPEUTICS, INC., US
[72] HUELSMANN, PETER MICHAEL, DE	[86] 2021-10-14 (PCT/US2021/055057)	[85] 2023-04-13
[71] GENENTECH, INC., US	[87] (WO2022/081890)	[86] 2021-10-15 (PCT/US2021/055243)
[71] F.HOFFMANN-LA ROCHE AG, CH	[30] US (63/091,891) 2020-10-14	[87] (WO2022/082017)
[85] 2023-04-13	[30] US (63/248,081) 2021-09-24	[30] US (63/092,179) 2020-10-15
[86] 2021-10-14 (PCT/US2021/054965)		
[87] (WO2022/081835)		
[30] US (63/092,251) 2020-10-15		
[30] US (63/250,782) 2021-09-30		
[21] 3,198,669 [13] A1	[21] 3,198,674 [13] A1	[21] 3,198,676 [13] A1
[51] Int.Cl. G06T 7/60 (2017.01) G06Q 50/08 (2012.01) G06Q 40/08 (2012.01)	[51] Int.Cl. A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 31/14 (2006.01) A61P 27/02 (2006.01) A61P 31/14 (2006.01)	[51] Int.Cl. B01J 8/04 (2006.01) C10G 65/00 (2006.01)
[25] EN	[25] EN	[25] EN
[54] RISK ASSESSMENT TECHNIQUES BASED ON IMAGES	[54] BENZALKONIUM CHLORIDE FOR USE IN TREATING CONJUNCTIVITIS AND/OR COVID-19	[54] MULTI-PHASE COMBINATION REACTION SYSTEM AND REACTION METHOD
[54] TECHNIQUES D'EVALUATION DES RISQUES BASEES SUR DES IMAGES	[54] CHLORURE DE BENZALKONIUM POUR UNE UTILISATION DANS LE TRAITEMENT DE LA CONJONCTIVITE ET/OU DE LA COVID-19	[54] SYSTEME DE REACTION A COMBINAISON MULTIPHASE ET PROCEDE DE REACTION
[72] KHOSROWPOUR, ARDALAN, US	[72] MCCORMICK, PATRICK, US	[72] DAI, MENG, CN
[72] SUDUSINGHE, KISHAN, US	[72] MILLARD, KIMBERLY, US	[72] LI, SHICAI, CN
[71] ONSITEIQ INC., US	[71] BAUSCH & LOMB IRELAND LIMITED, IE	[72] LI, YANG, CN
[85] 2023-04-13	[85] 2023-04-13	[72] XU, DAHAI, CN
[86] 2021-10-18 (PCT/IB2021/059577)	[86] 2021-10-14 (PCT/IB2021/059468)	[72] DING, HE, CN
[87] (WO2022/084828)	[87] (WO2022/079664)	[72] CHEN, GUANG, CN
[30] US (63/093,470) 2020-10-19	[30] US (63/092,399) 2020-10-15	[72] ZHANG, HAN, CN
	[30] US (63/183,928) 2021-05-04	[72] ZHOU, JIAWEN, CN
	[30] US (63/226,614) 2021-07-28	[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
		[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
		[85] 2023-04-13
		[86] 2021-10-22 (PCT/CN2021/125492)
		[87] (WO2022/083714)
		[30] CN (202011136718.5) 2020-10-22
		[30] CN (202011136727.4) 2020-10-22
		[30] CN (202011138182.0) 2020-10-22

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[21] **3,198,677**
[13] A1

[51] **Int.Cl. A61B 17/80 (2006.01)**
[25] EN
[54] **BONE PLATE, BONE PLATE SYSTEM, AND METHOD OF USING THE SAME**
[54] **PLAQUE OSSEUSE, SYSTEME DE PLAQUE OSSEUSE ET PROCEDES D'UTILISATION DE CE DERNIER**
[72] GABELBERGER, JOSEF, US
[72] COWENS, DAVID, US
[72] MCMANUS, JOSHUA, US
[72] KEYER, THOMAS, US
[72] SANTIS, CATHERINE, US
[72] KHATCHADOURIAN, ROBERTO, US
[72] VAN CITTERS, PETER, US
[72] BOGLE, DAVID W., US
[72] SIBOLE, ALEXANDRA, US
[71] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2023-04-13
[86] 2021-10-07 (PCT/IB2021/059198)
[87] (WO2022/079554)
[30] US (17/071,669) 2020-10-15

[21] **3,198,678**
[13] A1

[51] **Int.Cl. C04B 24/32 (2006.01) C08F 2/38 (2006.01) C08F 4/40 (2006.01) C08F 220/06 (2006.01) C08F 222/02 (2006.01) C08F 230/08 (2006.01) C08F 283/06 (2006.01)**
[25] EN
[54] **POLYMER HAVING DISPERSING FUNCTION, POLYCARBOXYLIC ACID CEMENT DISPERSANT, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **POLYMERE PRESENTANT UNE FONCTION DE DISPERSION, DISPERSANT DE CIMENT D'ACIDE POLYCARBOXYLIQUE, PROCEDE DE PREPARATION ASSOCIE ET UTILISATION CORRESPONDANTE**
[72] MIAO, XIA, CN
[72] ZHOU, SHIMING, CN
[72] WEI, HAOGUANG, CN
[72] YANG, GUANGGUO, CN
[72] WANG, LISHUANG, CN
[72] WANG, QICHUN, CN
[72] WANG, MU, CN
[72] WANG, XIAOJING, CN
[72] ZENG, MIN, CN
[72] LIU, JIAN, CN
[72] LI, XIAOJIANG, CN
[72] WU, XUEPENG, CN
[72] LIU, HAOYA, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC PETROLEUM ENGINEERING TECHNOLOGY RESEARCH INSTITUTE CO., LTD, CN
[85] 2023-04-12
[86] 2021-08-13 (PCT/CN2021/112586)
[87] (WO2022/078046)
[30] CN (202011092106.0) 2020-10-13

[21] **3,198,679**
[13] A1

[51] **Int.Cl. H04N 19/11 (2014.01) H04N 19/105 (2014.01) H04N 19/147 (2014.01) H04N 19/176 (2014.01)**
[25] EN
[54] **DECODER SIDE INTRA MODE DERIVATION FOR MOST PROBABLE MODE LIST CONSTRUCTION IN VIDEO CODING**
[54] **DERIVATION DE MODE INTRA COTE DECODEUR POUR UNE CONSTRUCTION DE LISTE DE MODES LES PLUS PROBABLES EN CODAGE VIDEO**
[72] LI, JINGYA, US
[72] SEREGIN, VADIM, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2023-04-13
[86] 2021-11-12 (PCT/US2021/072379)
[87] (WO2022/140718)
[30] US (63/129,004) 2020-12-22
[30] US (17/502,875) 2021-10-15

[21] **3,198,681**
[13] A1

[51] **Int.Cl. A61F 5/44 (2006.01) A61F 5/445 (2006.01)**
[25] EN
[54] **OSTOMY SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE STOMIE**
[72] RAMIREZ-AYALA, DAVID, US
[72] KAEFER, SABRINA, US
[72] DOROFEEVA, IRINA, US
[72] YUSCHAK, THOMAS, US
[72] BHAVARAJU, NARESH, US
[72] SHAKEEL, ASIF, US
[72] WADDELL, JEANNEANE, US
[72] FEARN, ROBERT, US
[71] CONVATEC TECHNOLOGIES INC., US
[85] 2023-04-13
[86] 2021-10-14 (PCT/US2021/071891)
[87] (WO2022/082215)
[30] US (63/092,437) 2020-10-15

Demandes PCT entrant en phase nationale

[21] **3,198,682**
[13] A1

[51] **Int.Cl. A61K 39/44 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **EXOSOMES CONTAINING MIRNAS TARGETING HER2 SYNTHESIS AND PHARMACEUTICAL COMPOSITIONS**

[54] **EXOSOMES CONTENANT DES MIARN CIBLANT LA SYNTHÈSE DE HER2 ET COMPOSITIONS PHARMACEUTIQUES**

[72] CHEN, XIAOQING, CN
[72] WANG, LEI, CN
[72] ZHOU, XUSHA, CN
[72] ZHOU, GRACE GUOYING, CN
[71] IMMIVIRA CO., LIMITED, CN
[85] 2023-04-13
[86] 2021-10-25 (PCT/CN2021/126208)
[87] (WO2022/089382)
[30] CN (PCT/CN2020/123619) 2020-10-26

[21] **3,198,684**
[13] A1

[51] **Int.Cl. B01D 15/18 (2006.01) B01D 15/32 (2006.01) B01D 15/36 (2006.01) B01D 15/38 (2006.01) C07K 1/16 (2006.01) C07K 1/34 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **PURIFICATION PLATFORMS FOR OBTAINING PHARMACEUTICAL COMPOSITIONS HAVING A REDUCED HYDROLYTIC ENZYME ACTIVITY RATE**

[54] **PLATEFORMES DE PURIFICATION POUR OBTENIR DES COMPOSITIONS PHARMACEUTIQUES AYANT UN TAUX D'ACTIVITE D'HYDROLYSE ENZYMATIQUE REDUIT**

[72] SEAY, ALEX, US
[72] WONG, MARC, US
[72] WOON, STEPHEN, US
[72] LEE, MICHAEL, US
[72] KHOO, STEFANIE, US
[72] O'DWYER, WILLIAM, US
[72] DUENAS, EILEEN T., US
[72] YIGZAW, YINGES, US
[72] LIM, AMY, US
[71] GENENTECH, INC., US
[85] 2023-04-13
[86] 2021-10-28 (PCT/US2021/057100)
[87] (WO2022/094116)
[30] US (63/108,194) 2020-10-30

[21] **3,198,685**
[13] A1

[51] **Int.Cl. A61K 36/537 (2006.01) A61K 31/495 (2006.01) A61P 9/10 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION FOR TREATING MYOCARDIAL ISCHEMIA AND PREPARATION METHOD THEREOF**

[54] **COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT DE L'ISCHEMIE MYOCARDIQUE ET SON PROCEDE DE PREPARATION**

[72] SUN, HE, US
[72] YAN, KAIJING, CN
[72] MA, XIAOHUI, CN
[72] ZHANG, SHUNNAN, CN
[72] HE, YI, CN
[72] XIONG, HAOSHU, CN
[72] ZHENG, YONGFENG, CN
[72] LI, XINXIN, CN
[72] ZHANG, HONGBO, CN
[72] LI, YANMEI, CN
[72] WANG, JING, CN
[72] WEN, TIANIAN, CN
[72] HUO, ZHIPENG, CN
[72] FAN, LIJUN, CN
[72] SUN, WEI, CN
[72] WANG, JIANCHUN, CN
[72] CAI, NAN, CN
[72] YANG, RUI, CN
[72] ZHANG, JINGJING, CN
[71] TASLY PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2023-04-13
[86] 2022-09-05 (PCT/CN2022/116975)
[87] (WO2023/045740)
[30] CN (202111136641.6) 2021-09-27

[21] **3,198,691**
[13] A1

[51] **Int.Cl. G05B 23/02 (2006.01)**

[25] EN

[54] **CONFIGURABLE FAULT TREE STRUCTURE FOR ELECTRICAL EQUIPMENT**

[54] **STRUCTURE ARBORESCENTE DE DEFAILLANCE CONFIGURABLE POUR EQUIPEMENT ELECTRIQUE**

[72] CHEIM, LUIZ, US
[71] HITACHI ENERGY SWITZERLAND AG, CH
[85] 2023-04-13
[86] 2020-12-04 (PCT/EP2020/084705)
[87] (WO2022/111840)
[30] US (63/118,383) 2020-11-25

[21] **3,198,693**
[13] A1

[51] **Int.Cl. F16L 53/34 (2018.01) B01J 8/06 (2006.01) B01J 19/24 (2006.01) H05B 6/10 (2006.01)**

[25] EN

[54] **REACTOR FOR CARRYING OUT A CHEMICAL REACTION**

[54] **REACTEUR DE MISE EN ŒUVRE D'UNE REACTION CHIMIQUE**

[72] HOFSTATTER, MARTIN, DE
[72] DELHOMME-NEUDECKER, CLARA, DE
[72] POSSELT, HEINZ, DE
[72] ZELLMAYER, MATHIEU, DE
[71] LINDE GMBH, DE
[71] BASF SE, DE
[85] 2023-04-13
[86] 2021-09-09 (PCT/EP2021/074856)
[87] (WO2022/096180)
[30] EP (20206147.9) 2020-11-06

[21] **3,198,701**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/009 (2012.01) G06N 5/00 (2023.01)**

[25] EN

[54] **COMPUTER-IMPLEMENTED METHOD FOR DETERMINING AN OPERATING PROPERTY OF A PUMPJACK, ANALYSIS DEVICE AND PUMP SYSTEM THEREFOR**

[54] **PROCEDE MIS EN ŒUVRE PAR ORDINATEUR POUR DETERMINER UNE PROPRIETE DE FONCTIONNEMENT D'UN CHEVALET DE POMPAGE, DISPOSITIF D'ANALYSE ET SYSTEME DE POMPE POUR CELUI-CI**

[72] GSCHIEL, STEFAN, AT
[72] WIMMER, HELMUT, AT
[72] SCHNABL, HELMUT, AT
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2023-04-13
[86] 2021-09-24 (PCT/EP2021/076393)
[87] (WO2022/078737)
[30] EP (20202027.7) 2020-10-15

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[21] **3,198,704**
[13] A1

[51] **Int.Cl. E21B 43/12 (2006.01) E21B 47/009 (2012.01) G06N 3/08 (2023.01) G06N 5/00 (2023.01)**

[25] EN

[54] **COMPUTER-IMPLEMENTED METHOD FOR DETERMINING AN OPERATIONAL PROPERTY OF A DRILL-ROD BOREHOLE PUMP, AND ANALYSIS DEVICE AND PUMP SYSTEM FOR SAME**

[54] **PROCEDE MIS EN ŐUVRE PAR ORDINATEUR POUR DETERMINER UNE PROPRIETE DE FONCTIONNEMENT D'UNE POMPE DE Puits DE FORAGE A TIGE DE FORAGE, DISPOSITIF D'ANALYSE ET SYSTEME DE POMPE CORRE SPONDANT**

[72] GSCHIEL, STEFAN, AT
[72] WIMMER, HELMUT, AT
[72] SCHNABL, HELMUT, AT
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2023-04-12
[86] 2021-09-24 (PCT/EP2021/076390)
[87] (WO2022/078736)
[30] EP (20202028.5) 2020-10-15

[21] **3,198,706**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61P 3/10 (2006.01) A61P 9/00 (2006.01) A61P 35/00 (2006.01) C07K 7/08 (2006.01) A61K 38/00 (2006.01)**

[25] EN

[54] **CYCLIC APELIN RECEPTOR AGONISTS**

[54] **AGONISTES DU RECEPTEUR DE L'APELINE CYCLIQUE**

[72] BROWN, GILES ALBERT, GB
[72] CONGREVE, MILES STUART, GB
[72] SCULLY, CONOR, GB
[72] PAUL, REBECCA, GB
[71] HEPTARES THERAPEUTICS LIMITED, GB
[85] 2023-04-12
[86] 2021-10-12 (PCT/GB2021/052634)
[87] (WO2022/079426)
[30] GB (2016149.3) 2020-10-12

[21] **3,198,709**
[13] A1

[51] **Int.Cl. B23K 35/36 (2006.01) B23K 35/362 (2006.01)**

[25] EN

[54] **A METHOD FOR THE MANUFACTURE OF A WELDED JOINT BY LASER ARC HYBRID WELDING**

[54] **PROCEDE DE FABRICATION DE JOINT SOUDE PAR SOUDAGE HYBRIDE A L'ARC LASER**

[72] MANJON FERNANDEZ, ALVARO, ES
[72] BOHM, SIVASAMBU, GB
[72] PEREZ RODRIGUEZ, MARCOS, ES
[71] VERDICIO SOLUTIONS A.I.E., ES
[85] 2023-04-13
[86] 2020-10-21 (PCT/IB2020/059874)
[87] (WO2022/084718)

[21] **3,198,710**
[13] A1

[51] **Int.Cl. A61K 47/54 (2017.01) A61P 3/10 (2006.01) A61P 9/00 (2006.01) A61P 35/00 (2006.01) C07K 7/08 (2006.01) A61K 38/00 (2006.01)**

[25] EN

[54] **LINEAR APELIN RECEPTOR AGONISTS**

[54] **AGONISTES LINEAIRES DU RECEPTEUR DE L'APELINE**

[72] BROWN, GILES ALBERT, GB
[72] CONGREVE, MILES STUART, GB
[72] SCULLY, CONOR, GB
[72] PAUL, REBECCA, GB
[71] HEPTARES THERAPEUTICS LIMITED, GB
[85] 2023-04-12
[86] 2021-10-12 (PCT/GB2021/052636)
[87] (WO2022/079428)
[30] GB (2016152.7) 2020-10-12

[21] **3,198,711**
[13] A1

[51] **Int.Cl. B05B 16/20 (2018.01) B05B 16/40 (2018.01) B05B 16/60 (2018.01) B05B 16/80 (2018.01)**

[25] EN

[54] **TRANSPORTABLE MODULES AND/OR VEHICLE ENCLOSURES**

[54] **MODULES TRANSPORTABLES ET/OU ENCEINTES POUR VEHICULE**

[72] UTTING, DAVID JOHN, GB
[71] UTTING, DAVID JOHN, GB
[85] 2023-04-12
[86] 2021-10-26 (PCT/GB2021/052782)
[87] (WO2022/090707)
[30] GB (2016925.6) 2020-10-26

[21] **3,198,712**
[13] A1

[51] **Int.Cl. B31B 50/02 (2017.01) B31B 50/04 (2017.01) B31B 50/26 (2017.01) B31B 50/74 (2017.01) B65D 5/06 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR PREPARING BLANKS FOR FORMING CARTONS**

[54] **PROCEDE ET SYSTEME DE PREPARATION DE DECOUPES POUR FORMER DES CARTONS**

[72] WALSH, JOSEPH C., US
[72] SLOAT, JEFFREY T., US
[71] GRAPHIC PACKAGING INTERNATIONAL, LLC, US
[85] 2023-04-14
[86] 2021-10-14 (PCT/US2021/054888)
[87] (WO2022/081783)
[30] US (63/091,823) 2020-10-14

[21] **3,198,713**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 50/10 (2012.01) B67D 1/08 (2006.01) B67D 1/12 (2006.01)**

[25] EN

[54] **REMOTE BEVERAGE SELECTION WITH A BEVERAGE DISPENSER**

[54] **SELECTION DE BOISSON A DISTANCE A L'AIDE D'UN DISTRIBUTEUR DE BOISSON**

[72] MOUKALLED, HABIB, US
[72] HEJNA, JASON, US
[71] THE COCA-COLA COMPANY, US
[85] 2023-04-14
[86] 2021-10-18 (PCT/US2021/055418)
[87] (WO2022/082102)
[30] US (63/092,771) 2020-10-16

Demandes PCT entrant en phase nationale

[21] **3,198,715**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 37/06 (2006.01)**

[25] EN

[54] **MALT1 MODULATORS AND USES THEREOF**

[54] **MODULATEURS DE MALT1 ET LEURS UTILISATIONS**

[72] DECHRISTOPHER, BRIAN ADDISON, US

[72] BARBE, GUILLAUME, US

[71] RHEOS MEDICINES, INC., US

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/055173)

[87] (WO2022/081967)

[30] US (63/092,768) 2020-10-16

[21] **3,198,716**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) B09B 1/00 (2006.01) E21B 21/06 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **SUBTERRANEAN EMPLACEMENT OF ORGANIC WASTES**

[54] **MISE EN PLACE SOUTERRAINE DE DECHETS ORGANIQUES**

[72] ABOU-SAYED, OMAR, US

[72] MOHAMED, IBRAHIM, US

[72] PANCHAL, YASHESH, US

[72] SAMEH, OMAR, US

[72] CECEIL, JAY, US

[72] PANGBURN, STEVE, US

[72] ASHMAWY, MAHMOUD MOSTAFA, US

[71] ADVANTEK WASTE MANAGEMENT SERVICES, LLC, US

[85] 2023-04-13

[86] 2021-12-13 (PCT/US2021/063167)

[87] (WO2022/082125)

[30] US (63/091,194) 2020-10-13

[30] US (63/091,203) 2020-10-13

[30] US (63/158,284) 2021-03-08

[21] **3,198,717**
[13] A1

[51] **Int.Cl. G06Q 50/22 (2018.01) G16H 40/00 (2018.01)**

[25] EN

[54] **CARE-NEEDING PERSON ASSISTANCE SYSTEM**

[54] **SYSTEME D'ASSISTANCE POUR PERSONNE NECESSITANT DES SOINS INFIRMIERS**

[72] KATO, JUNICHI, JP

[72] HIRD, NICHOLAS WILLIAM, JP

[72] HORI, SEIJI, JP

[71] AIKOMI CO., LTD., JP

[71] SUMITOMO PHARMA CO.,LTD, JP

[85] 2023-04-13

[86] 2021-10-11 (PCT/JP2021/037530)

[87] (WO2022/080297)

[30] JP (2020-172886) 2020-10-14

[21] **3,198,718**
[13] A1

[51] **Int.Cl. A61M 16/00 (2006.01) G16H 10/60 (2018.01) G16H 20/40 (2018.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01) G16H 80/00 (2018.01)**

[25] EN

[54] **RESPIRATORY THERAPY DATA MANAGEMENT SYSTEMS, DEVICES, AND METHODS**

[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE GESTION DE DONNEES DE THERAPIE RESPIRATOIRE**

[72] CIPOLLONE, JOSEPH, US

[72] MCKEAG, GREGORY A., US

[72] HOLMES, MICHAEL B., US

[72] HARRIS, ERIC A., US

[72] KIPLE, CHRISTOPHER T., US

[72] BROOKS, CHRIS O., US

[72] MINNICK, CARO, US

[71] VENTEC LIFE SYSTEMS, INC., US

[85] 2023-04-13

[86] 2021-11-05 (PCT/US2021/058363)

[87] (WO2022/099096)

[30] US (63/110,893) 2020-11-06

[30] US (63/158,266) 2021-03-08

[21] **3,198,720**
[13] A1

[51] **Int.Cl. A01K 67/02 (2006.01) A61D 19/02 (2006.01) A61K 35/52 (2015.01) A61K 48/00 (2006.01)**

[25] EN

[54] **PORCINE SEXED SEMEN AND METHODS OF USE**

[54] **SEMENCE SEXEE PORCINE ET PROCEDES D'UTILISATION**

[72] CULBERTSON, MATTHEW, US

[72] HAMILTON, DANIEL, US

[72] EBERSOLE, MATTHEW, US

[72] HERRING, WILLIAM, US

[71] ABS GLOBAL, INC., US

[85] 2023-04-14

[86] 2021-10-14 (PCT/US2021/055016)

[87] (WO2022/081868)

[30] US (63/092,299) 2020-10-15

[21] **3,198,721**
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01) A61K 47/69 (2017.01) A61K 33/244 (2019.01) A61K 33/24 (2019.01) A61K 39/395 (2006.01) A61K 41/00 (2020.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01) C07K 1/13 (2006.01) C07K 7/08 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **RADIOACTIVE COMPLEXES OF ANTI-HER2 ANTIBODY, AND RADIOPHARMACEUTICAL**

[54] **COMPLEXES RADIOACTIFS D'ANTICORPS ANTI-HER2 ET PRODUIT RADIOPHARMACEUTIQUE**

[72] KAWATANI, MINORU, JP

[72] HANADA, TAKAHISA, JP

[72] TONOYA, GOTA, JP

[72] TAKEDA, TAKUYA, JP

[71] NIHON MEDI-PHYSICS CO., LTD., JP

[85] 2023-04-13

[86] 2021-10-15 (PCT/JP2021/038207)

[87] (WO2022/080481)

[30] JP (2020-174840) 2020-10-16

[30] JP (2020-215740) 2020-12-24

[30] JP (2021-024688) 2021-02-18

PCT Applications Entering the National Phase

[21] **3,198,722**
[13] A1

[51] **Int.Cl. B42D 25/00 (2014.01) G06Q 20/34 (2012.01) G07F 7/08 (2006.01)**
[25] EN
[54] **PRINTER FOR SELECTIVELY PRINTING SYMBOLIC INFORMATION ON A MEDIUM**
[54] **IMPRIMANTE DESTINEE A L'IMPRESSION SELECTIVE D'INFORMATIONS SYMBOLIQUES SUR UN SUPPORT**
[72] ANASTA, JUDE PIERRE, US
[72] MAIMAN, TYLER, US
[72] BENKREIRA, ABDELKADER M'HAMED, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2023-04-14
[86] 2021-10-14 (PCT/US2021/055031)
[87] (WO2022/081877)
[30] US (17/070,532) 2020-10-14

[21] **3,198,724**
[13] A1

[51] **Int.Cl. D03D 15/283 (2021.01) D03D 15/37 (2021.01) D03D 15/47 (2021.01) D02G 3/04 (2006.01) D04B 1/16 (2006.01) D04B 21/16 (2006.01) D06M 15/507 (2006.01) D06M 15/564 (2006.01)**
[25] EN
[54] **WOVEN/KNITTED ARTICLE, MANUFACTURING METHOD, AND TEXTILE PRODUCT**
[54] **ARTICLE TISSE/TRICOTE, PROCEDE DE FABRICATION, ET PRODUIT TEXTILE**
[72] KISHITA, FUMIYA, JP
[72] TABATA, JIRO, JP
[72] IKEDA, HAYATO, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2023-04-13
[86] 2021-11-18 (PCT/JP2021/042403)
[87] (WO2022/113872)
[30] JP (2020-195849) 2020-11-26

[21] **3,198,725**
[13] A1

[51] **Int.Cl. G06N 10/40 (2022.01)**
[25] EN
[54] **INTERCONNECTIONS BETWEEN QUANTUM COMPUTING MODULE AND NON-QUANTUM PROCESSING MODULES IN QUANTUM COMPUTING SYSTEMS**
[54] **INTERCONNEXIONS ENTRE UN MODULE DE CALCUL QUANTIQUE ET DES MODULES DE TRAITEMENT NON QUANTIQUES DANS DES SYSTEMES DE CALCUL QUANTIQUES**
[72] YOHANNES, DANIEL, US
[72] VERNIK, IGOR, US
[72] JORDAN, CALEB, US
[72] TRUITT, PATRICK, US
[72] KIRICHENKO, ALEX, US
[72] SALIM, AMIR JAFARI, US
[72] KATAM, NAVEEN, US
[72] MUKHANOV, OLEG, US
[71] SEEQC, INC., US
[85] 2023-04-14
[86] 2021-10-13 (PCT/US2021/054828)
[87] (WO2022/125186)
[30] US (63/091,455) 2020-10-14

[21] **3,198,726**
[13] A1

[51] **Int.Cl. C12N 9/12 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **LARGE SCALE SYNTHESIS OF MESSENGER RNA**
[54] **SYNTHESE A GRANDE ECHELLE D'ARN MESSENGER**
[72] ABYSALH, JONATHAN, US
[72] DIAS, ANUSHA, US
[72] VARGAS, JOREL E., US
[72] COOPER, DUSTIN, US
[72] DEROSA, FRANK, US
[71] TRANSLATE BIO, INC., US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055221)
[87] (WO2022/082001)
[30] US (63/092,274) 2020-10-15

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[13] A1

[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) C07H 21/02 (2006.01)**
[25] EN
[54] **OLIGONUCLEOTIDE FOR 5'-CAPPED RNA SYNTHESIS**
[54] **OLIGONUCLEOTIDE POUR LA SYNTHESE D'ARN A COIFFE EN 5'**
[72] KIM, KYUNG JIN, KR
[72] CHOI, KANG HYUN, KR
[72] KIM, UK-IL, KR
[72] BANG, HYUNG TAE, KR
[72] LEE, SEUL KI, KR
[72] HAN, SI YEON, KR
[71] ST PHARM CO., LTD., KR
[85] 2023-04-13
[86] 2021-10-19 (PCT/KR2021/014625)
[87] (WO2022/086140)
[30] KR (10-2020-0135823) 2020-10-20

[21] **3,198,728**
[13] A1

[51] **Int.Cl. A61N 5/10 (2006.01) H05G 1/02 (2006.01) H05H 7/00 (2006.01)**
[25] EN
[54] **ULTRA-HIGH DOSE RATE X-RAY CABINET IRRADIATOR**
[54] **IRRADIATEUR D'ENCEINTE A RAYONS X A DEBIT DE DOSE ULTRA ELEVE**
[72] WONG, JOHN WAI-CHIU, US
[72] REZAEE, MOHAMMAD, US
[72] IORDACHITA, IULIAN, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2023-04-14
[86] 2021-10-15 (PCT/US2021/055294)
[87] (WO2022/082055)
[30] US (63/092,991) 2020-10-16

[21] **3,198,730**
[13] A1

[51] **Int.Cl. E21B 43/116 (2006.01) E21B 29/02 (2006.01) E21B 43/117 (2006.01) E21B 43/1185 (2006.01) E21B 43/119 (2006.01) E21B 43/263 (2006.01)**
[25] EN
[54] **PERFORATING GUN SYSTEM**
[54] **SYSTEME DE CANON DE PERFORATION**
[72] SHELTON, JAMES F., US
[71] HARRISON JET GUNS II, L.P., US
[85] 2023-04-13
[86] 2021-10-19 (PCT/US2021/055531)
[87] (WO2022/086909)
[30] US (63/093,436) 2020-10-19

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[21] **3,198,732**
[13] A1

[51] **Int.Cl. A61F 2/958 (2013.01) A61F 2/24 (2006.01) A61M 25/10 (2013.01)**

[25] EN

[54] **PROTECTED PRESSURE-SAFE BALLOONS**

[54] **BALLONNETS PROTEGES CONTRE LA PRESSION**

[72] ZHU, YIDONG M., US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2023-04-13

[86] 2021-10-27 (PCT/US2021/056760)

[87] (WO2022/093900)

[30] US (63/106,842) 2020-10-28

[21] **3,198,780**
[13] A1

[25] EN

[54] **ENERGY STORAGE CELL, ENERGY STORAGE DEVICE AND METHOD OF MANUFACTURING AN ENERGY STORAGE CELL**

[54] **CELLULE ACCUMULATRICE D'ENERGIE, DISPOSITIF ACCUMULATEUR D'ENERGIE ET PROCEDE DE PRODUCTION D'UNE CELLULE ACCUMULATRICE D'ENERGIE**

[72] BIEDERMANN, PETER, CH

[71] RUAG AMMOTEC AG, CH

[85] 2023-05-12

[86] 2021-07-22 (PCT/EP2021/070586)

[87] (WO2022/096166)

[30] DE (10 2020 129 089.6) 2020-11-04

[21] **3,198,784**
[13] A1

[51] **Int.Cl. B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 50/02 (2015.01) B22F 12/00 (2021.01)**

[25] EN

[54] **PORTABLE, RUGGEDIZED AND EASY TO USE 3D PRINTING SYSTEM**

[54] **SYSTEME D'IMPRESSION 3D PORTATIF, RENFORCE ET FACILE A UTILISER**

[72] SHNELL, ERIC, US

[72] BIRLANGI, AKHIL, US

[72] CHIU, NATHAN, US

[72] SPRUTE, NIKLAS, US

[71] CRAITOR, INC., US

[85] 2023-05-12

[86] 2021-11-16 (PCT/US2021/059523)

[87] (WO2022/104264)

[30] US (63/114,027) 2020-11-16

[30] US (63/225,813) 2021-07-26

[21] **3,198,786**
[13] A1

[51] **Int.Cl. H04J 14/06 (2006.01) H04Q 11/00 (2006.01)**

[25] EN

[54] **MULTIPOINT WAVEGUIDE DEVICE**

[54] **DISPOSITIF GUIDE D'ONDES MULTI-PORT**

[72] CHEN, GUO, US

[72] LOTT, ED, US

[72] FREE, RYAN, US

[71] HUGHES NETWORK SYSTEMS, LLC, US

[85] 2023-05-12

[86] 2021-12-28 (PCT/US2021/065297)

[87] (WO2022/146974)

[30] US (17/138,364) 2020-12-30

[21] **3,198,807**
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01) G16H 50/00 (2018.01) G06N 20/00 (2019.01) A61B 5/00 (2006.01)**

[25] EN

[54] **BIOMARKERS FOR DIAGNOSING NON-ALCOHOLIC STEATOHEPATITIS (NASH) OR HEPATOCELLULAR CARCINOMA (HCC)**

[54] **BIOMARQUEURS POUR DIAGNOSTIQUER UNE STEATOHEPATITE NON ALCOOLIQUE (SHNA) OU UN CARCINOME HEPATOCELLULAIRE (CHC)**

[72] RAMACHANDRAN, PRASANNA, US

[72] XU, GE, US

[71] VENN BIOSCIENCES CORPORATION, US

[85] 2023-04-13

[86] 2021-11-24 (PCT/US2021/060776)

[87] (WO2022/115574)

[30] US (63/118,486) 2020-11-25

[30] US (63/251,021) 2021-09-30

[21] **3,198,808**
[13] A1

[51] **Int.Cl. G16Z 99/00 (2019.01) G06N 3/02 (2006.01) G09B 5/00 (2006.01) G09B 19/00 (2006.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR CONTINUOUS MONITORING OF TASK PERFORMANCE**

[54] **PROCEDES ET SYSTEMES DE SURVEILLANCE CONTINUE D'EXECUTION DE TACHE**

[72] YILMAZ, MUHAMMED RECAI, CA

[72] WINKLER-SCHWARTZ, ALEXANDER, CA

[72] MIRCHI, NYKAN, CA

[72] DEL MAESTRO, ROLANDO FAUSTO, CA

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

[85] 2023-04-14

[86] 2021-10-14 (PCT/CA2021/051440)

[87] (WO2022/077109)

[30] US (63/091,629) 2020-10-14

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[21] **3,198,809**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01) C07D 471/10 (2006.01) C07D 487/10 (2006.01)**

[25] EN

[54] **HETEROCYCLIC SPIRO COMPOUNDS AND METHODS OF USE**

[54] **COMPOSES SPIRO HETEROCYCLIQUES ET METHODES D'UTILISATION**

[72] LANMAN, BRIAN ALAN, US

[72] BANERJEE, ABHISEK, US

[72] CHU-MOYER, MARGARET, US

[72] DAI, DONGCHENG, US

[72] ESHON, JOSEPHINE, US

[72] HUANG, DAVID, US

[72] KALLER, MATTHEW R., US

[72] LEE, HEEJUN, US

[72] LOPEZ, PATRICIA, US

[72] MA, VU VAN, US

[72] MANONI, FRANCESCO, US

[72] MEDINA, JOSE M., US

[72] PICKRELL, ALEXANDER J., US

[72] STELLWAGEN, JOHN C., US

[72] SUN, ZHEN, US

[72] TAMAYO, NURIA A., US

[72] ZHANG, WENHAN, US

[72] ZHU, KAI, US

[71] AMGEN INC., US

[85] 2023-04-14

[86] 2021-10-19 (PCT/CN2021/124598)

[87] (WO2022/083569)

[30] CN (PCT/CN2020/122197) 2020-10-20

[21] **3,198,810**
[13] A1

[51] **Int.Cl. A61K 47/61 (2017.01) A61K 47/64 (2017.01) A61K 47/68 (2017.01) A61P 27/02 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01) C07K 16/22 (2006.01)**

[25] EN

[54] **NON-COVALENT PROTEIN-HYALURONAN CONJUGATES FOR LONG-ACTING OCULAR DELIVERY**

[54] **CONJUGUES PROTEINE-HYALURONANE NON COVALENTS POUR ADMINISTRATION OCULAIRE A ACTION PROLONGEE**

[72] DENGL, STEFAN, DE

[72] KELLEY, ROBERT FRANKLIN, US

[72] KETTENBERGER, HUBERT, DE

[72] HANNOUSH, RAMI, US

[72] HANSEN, SIMON THEODOR, US

[72] HUELSMANN, PETER MICHAEL, DE

[72] MEHTA, SHRENIK CHETAN, US

[72] TESAR, DEVIN BRENT, US

[71] F. HOFFMAN-LA ROCHE AG, CH

[71] GENENTECH, INC., US

[85] 2023-04-14

[86] 2021-10-14 (PCT/EP2021/078433)

[87] (WO2022/079161)

[30] US (63/092,251) 2020-10-15

[30] US (63/250,782) 2021-09-30

[21] **3,198,811**
[13] A1

[51] **Int.Cl. H04B 3/46 (2015.01)**

[25] EN

[54] **PROCESS OF DETERMINATION OF A PERCENTAGE OF GLASS SURFACE TO TREAT AND ASSOCIATED MOBILE APPLICATION**

[54] **PROCEDE DE DETERMINATION D'UN POURCENTAGE DE SURFACE DE VERRE A TRAITER ET INVENTION MOBILE ASSOCIEE**

[72] RADU, XAVIER, BE

[72] BRUSCAGLIA, MICHAEL, BE

[71] AGC GLASS EUROPE, BE

[71] AGC INC., JP

[71] AGC FLAT GLASS NORTH AMERICA, INC., US

[71] AGC VIDROS DO BRASIL LTDA, BR

[85] 2023-04-14

[86] 2021-10-15 (PCT/EP2021/078577)

[87] (WO2022/079225)

[30] EP (20202380.0) 2020-10-16

[21] **3,198,812**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/077 (2010.01) C12N 5/00 (2006.01)**

[25] EN

[54] **SPHEROIDAL SELF-ASSEMBLED PEPTIDE HYDROGELS COMPRISING CELLS**

[54] **HYDROGELS PEPTIDIQUES A AUTO-ASSEMBLAGE SPHEROIDAUX COMPRENANT DES CELLULES**

[72] KIAMEHR, MOSTAFA, BE

[72] VERFAILLIE, CATHERINE, BE

[71] KATHOLIEKE UNIVERSITEIT LEUVEN, BE

[71] TAMPERE UNIVERSITY FOUNDATION SR, FI

[85] 2023-04-14

[86] 2021-10-15 (PCT/EP2021/078668)

[87] (WO2022/079272)

[30] FI (20206018) 2020-10-15

[21] **3,198,813**
[13] A1

[51] **Int.Cl. A61K 38/39 (2006.01) A61P 17/02 (2006.01)**

[25] EN

[54] **NOVEL BIOACTIVE PEPTIDE COMBINATIONS AND USES THEREOF**

[54] **NOUVELLES COMBINAISONS PEPTIDIQUES BIOACTIVES ET LEURS UTILISATIONS**

[72] MORGELIN, MATTHIAS, SE

[72] ABDILLAHI, SUADO M., SE

[71] COLZYX AB, SE

[85] 2023-04-14

[86] 2021-10-15 (PCT/EP2021/078669)

[87] (WO2022/079273)

[30] GB (2016456.2) 2020-10-16

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[21] **3,198,814**
[13] A1

[51] **Int.Cl. A61J 1/00 (2023.01) A61K 38/18 (2006.01) B65D 85/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL PACKAGES COMPRISING POLYPROPYLENE CONTAINERS AND NGF AQUEOUS FORMULATIONS PACKAGED THEREIN**

[54] **EMBALLAGES PHARMACEUTIQUES COMPRENANT DES RECIPIENTS EN POLYPROPYLENE ET FORMULATIONS AQUEUSES DE NGF EMBALLEES DANS CEUX-CI**

[72] ALLEGRETTI, MARCELLO, IT
[72] APPARENTE, LUCIA, IT
[72] GENTILE, MARCO MARIA, IT
[72] MATTIOLI, SIMONE, IT
[71] DOMPE' FARMACEUTICI SPA, IT
[85] 2023-04-14
[86] 2021-10-27 (PCT/EP2021/079879)
[87] (WO2022/090339)
[30] EP (20204487.1) 2020-10-28

[21] **3,198,815**
[13] A1

[51] **Int.Cl. C12N 15/67 (2006.01) A61K 31/7088 (2006.01) A61K 39/12 (2006.01) A61K 39/215 (2006.01) C12N 15/10 (2006.01)**

[25] EN

[54] **POTENCY ASSAY FOR THERAPEUTIC POTENTIAL OF CODING NUCLEIC ACID**

[54] **DOSAGE DE LA PUISSANCE DU POTENTIEL THERAPEUTIQUE D'UN ACIDE NUCLEIQUE CODANT**

[72] HAAS, HEINRICH, DE
[72] SCHUMACHER, JENS, DE
[72] TENZER, STEFAN, DE
[71] BIONTECH SE, DE
[85] 2023-04-14
[86] 2022-09-01 (PCT/EP2022/074395)
[87] (WO2023/031367)
[30] EP (PCT/EP2021/074304) 2021-09-02

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[13] A1

[51] **Int.Cl. B01D 25/12 (2006.01) B01D 25/28 (2006.01)**

[25] EN

[54] **ARRANGEMENT AND METHOD FOR CONTROLLING PRESSURE FILTER**

[54] **DISPOSITIF ET PROCEDE DE COMMANDE D'UN FILTRE SOUS PRESSION**

[72] PULLI, MIKKO, FI
[72] TANTTU, LEENA, FI
[72] KOSONEN, MIKA, FI
[72] KAUVOSAARI, SAKARI, FI
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2023-04-14
[86] 2021-10-29 (PCT/FI2021/050736)
[87] (WO2022/090632)
[30] FI (20206090) 2020-10-30

[21] **3,198,817**
[13] A1

[51] **Int.Cl. H04N 21/234 (2011.01) H04N 21/24 (2011.01) H04N 21/262 (2011.01) H04N 21/845 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DYNAMICALLY ADJUSTING QUALITY LEVELS FOR TRANSMITTING CONTENT BASED ON CONTEXT**

[54] **SYSTEMES ET PROCEDES PERMETTANT D'AJUSTER DYNAMIQUEMENT LES NIVEAUX DE QUALITE POUR LA TRANSMISSION DE CONTENU EN FONCTION DU CONTEXTE**

[72] AHER, ANKUR, IN
[72] CHUNDI, CHARISHMA, IN
[71] ROVI GUIDES, INC., US
[85] 2023-04-14
[86] 2020-12-23 (PCT/US2020/066981)
[87] (WO2022/081188)
[30] US (17/072,083) 2020-10-16

[21] **3,198,818**
[13] A1

[51] **Int.Cl. G06F 3/0481 (2022.01) G06F 3/0484 (2022.01) G06F 3/0485 (2022.01) G06F 3/0488 (2022.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DYNAMICALLY NAVIGATING CONTENT**

[54] **SYSTEMES ET PROCEDES PERMETTANT DE NAVIGUER DYNAMIQUEMENT DANS UN CONTENU**

[72] AHER, ANKUR ANIL, IN
[72] CHUNDI, CHARISHMA, IN
[71] ROVI GUIDES, INC., US
[85] 2023-04-14
[86] 2020-12-28 (PCT/US2020/067205)
[87] (WO2022/081189)
[30] US (17/072,908) 2020-10-16

[21] **3,198,819**
[13] A1

[51] **Int.Cl. E21B 17/18 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **GAS LIFT LATCH**

[54] **LOQUET D'ELEVATION PAR INJECTION DE GAZ**

[72] KAMPHAUS, JASON, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2023-04-14
[86] 2021-10-18 (PCT/US2021/055377)
[87] (WO2022/082092)
[30] US (63/092,926) 2020-10-16
[30] US (63/093,348) 2020-10-19

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[21] **3,198,820**
[13] A1

[51] **Int.Cl. A61B 5/0537 (2021.01) A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/145 (2006.01) A61B 5/1477 (2006.01) A61B 10/00 (2006.01)**

[25] EN

[54] **NOVEL NON-CLOGGING SWEAT SENSING DEVICE AND METHODS OF MAKING THE SAME**

[54] **NOUVEAU DISPOSITIF DE DETECTION DE SUEUR NON-COLMATANT ET PROCEDES DE FABRICATION DE CELUI-CI**

[72] DEANE, STEVEN CHARLES, GB
[72] BUCKING, THORE MAINART, GB
[72] JOHNSTONE, SAMUEL LUKE, GB
[71] THE COCA-COLA COMPANY, US
[85] 2023-04-14
[86] 2021-10-18 (PCT/US2021/055417)
[87] (WO2022/086856)
[30] US (63/093,435) 2020-10-19

[21] **3,198,821**
[13] A1

[51] **Int.Cl. A01B 76/00 (2006.01) G05D 1/00 (2006.01) G05D 1/02 (2020.01) G06T 7/00 (2017.01)**

[25] EN

[54] **COLLABORATIVE ROBOT NETWORK WITH HYBRID ELECTRO-MECHANICAL PLANT MANAGEMENT METHODS**

[54] **RESEAU DE ROBOTS COLLABORATIFS AVEC DES PROCEDES DE GESTION DE PLANTES ELECTROMECHANIQUES HYBRIDES**

[72] WURDEN, RICHARD, US
[71] AIGEN INC., US
[85] 2023-04-14
[86] 2021-10-18 (PCT/US2021/055466)
[87] (WO2022/086873)
[30] US (63/093,694) 2020-10-19
[30] US (63/128,627) 2020-12-21

[21] **3,198,822**
[13] A1

[51] **Int.Cl. C07K 14/715 (2006.01) A61K 38/00 (2006.01) A61K 38/20 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C07K 14/55 (2006.01)**

[25] EN

[54] **MULTI-FUNCTIONAL AND MULTI-VALENT INTERLEUKIN-TGF-BETA RECEPTOR FUSION POLYPEPTIDES**

[54] **POLYPEPTIDES DE FUSION MULTIFONCTIONNELS ET MULTIVALENTS DU RECEPTEUR DE L'INTERLEUKINE-TGF-BETA**

[72] PENAFUERTE DIAZ, CLAUDIA ANIA, CA
[71] CURA THERAPEUTICS, INC., CA
[85] 2023-04-14
[86] 2021-10-19 (PCT/US2021/055646)
[87] (WO2022/086988)
[30] US (63/094,277) 2020-10-20

[21] **3,198,823**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING PRIMARY HYPEROXALURIA**

[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DE L'HYPEROXALURIE PRIMAIRE**

[72] ROBBIE, GABRIEL, US
[72] GOEL, VARUN, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[85] 2023-04-14
[86] 2021-10-20 (PCT/US2021/055712)
[87] (WO2022/087041)
[30] US (63/094,427) 2020-10-21

[21] **3,198,824**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) G01N 21/25 (2006.01) G01N 21/29 (2006.01) G01N 21/78 (2006.01) G01N 21/79 (2006.01) G01N 33/52 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR IMAGING AND IMAGE-BASED ANALYSIS OF TEST DEVICES**

[54] **SYSTEMES ET PROCEDES D'IMAGERIE ET D'ANALYSE BASEE SUR L'IMAGE DE DISPOSITIFS D'ESSAI**

[72] MARCELPOIL, RAPHAEL, US
[72] PAGE, JOHN, US
[72] VOLLE, JEAN-MARC, US
[72] ORNY, CEDRICK, US
[72] TRICOLI, CARMELO, US
[72] FERNANDES, MATHIEU, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-04-14
[86] 2021-10-21 (PCT/US2021/055963)
[87] (WO2022/087210)
[30] US (63/105,146) 2020-10-23
[30] US (63/126,437) 2020-12-16

[21] **3,198,825**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 10/60 (2018.01) G16H 20/17 (2018.01) G16H 40/00 (2018.01) G16H 50/20 (2018.01)**

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[54] **SYSTEM AND METHOD FOR PROVIDING ACCESS TO CONTENT**

[54] **SYSTEME ET PROCEDE DE FOURNITURE D'ACCES A UN CONTENU**

[72] MARTIN, BRETT LAWRENCE, US
[72] DOWNEY, DAVID, US
[72] MCCLURE, DOUGLAS, US
[72] SANDBLOM, EFFIE, US
[72] CHARLITE-RUIZ, LINDA, US
[72] BUTLER, DANIELLE VICTORIA, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-04-14
[86] 2021-10-26 (PCT/US2021/056663)
[87] (WO2022/093830)
[30] US (63/107,848) 2020-10-30

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[21] **3,198,826**
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) A61K 45/06 (2006.01) A61P 3/00 (2006.01)**
[25] EN
[54] **USE OF A CINNAMEIN COMPOSITION FOR THE TREATMENT OF GLYCINE ENCEPHALOPATHY AND UREA CYCLE DISORDERS**
[54] **UTILISATION D'UNE COMPOSITION DE CINNAMEINE POUR LE TRAITEMENT DE L'ENCEPHALOPATHIE DE LA GLYCINE ET DES TROUBLES DU CYCLE DE L'UREE**
[72] PAHAN, KALIPADA, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2023-04-14
[86] 2021-10-27 (PCT/US2021/056799)
[87] (WO2022/093922)
[30] US (63/106,456) 2020-10-28

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[13] A1

[51] **Int.Cl. B01J 8/00 (2006.01) B01J 19/26 (2006.01) B01J 37/10 (2006.01) B09B 3/00 (2022.01) C02F 1/72 (2006.01) F23G 5/02 (2006.01) F23G 5/24 (2006.01)**
[25] EN
[54] **HYDROTHERMAL REACTOR SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE REACTEURS HYDROTHERMIQUES**
[72] NOVOSSELOV, IGOR V., US
[72] PINKARD, BRIAN, US
[72] MOORE, STUART, US
[71] UNIVERSITY OF WASHINGTON, US
[85] 2023-04-14
[86] 2021-10-27 (PCT/US2021/056832)
[87] (WO2022/093945)
[30] US (63/107,418) 2020-10-29

[21] **3,198,830**
[13] A1

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[25] EN
[54] **CATALYST PRETREATMENT AND FEEDING SYSTEM FOR POLYPROPYLENE PRODUCTION**
[54] **PRETRAITEMENT DE CATALYSEUR ET SYSTEME D'ALIMENTATION POUR LA PRODUCTION DE POLYPROPYLENE**
[72] KHANKAL, REZA, US
[72] MUTCHLER, JOEL A., US
[72] GARNER, BRYAN M., US
[72] HEIN, JAMES E., US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2023-04-14
[86] 2021-10-08 (PCT/US2021/071782)
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[30] US (17/071,527) 2020-10-15

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[13] A1

[51] **Int.Cl. A61K 38/19 (2006.01) A61K 38/18 (2006.01) A61K 39/395 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **INTRANASAL IMMUNOTHERAPY FOR THE TREATMENT OF ALZHEIMER'S DISEASE**
[54] **IMMUNOTHERAPIE INTRANASALE POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] PAHAN, KALIPADA, US
[71] RUSH UNIVERSITY MEDICAL CENTER, US
[85] 2023-04-14
[86] 2021-10-27 (PCT/US2021/056801)
[87] (WO2022/093923)
[30] US (63/107,496) 2020-10-30

[21] **3,198,829**
[13] A1

[51] **Int.Cl. G06Q 10/04 (2023.01) G06Q 10/08 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OPTIMIZING MISSION PLANNING, TASK MANAGEMENT AND ROUTING FOR AUTONOMOUS YARD TRUCKS**
[54] **SYSTEME ET PROCEDE D'OPTIMISATION DE PLANIFICATION DE MISSION, DE GESTION DE TACHE ET DE ROUTAGE POUR CAMIONS DE TRIAGE AUTONOMES**
[72] WALTON, HARRY PHILIP, US
[71] OUTRIDER TECHNOLOGIES, INC., US
[85] 2023-04-14
[86] 2021-11-12 (PCT/US2021/059196)
[87] (WO2022/104101)
[30] US (63/112,728) 2020-11-12

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[13] A1

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/454 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **POLYMORPHS OF AN FXR AGONIST**
[54] **POLYMORPHES D'UN AGONISTE DU FXR**
[72] SWEETANA, STEPHANIE ANN, US
[72] SPROULL, STEVEN JERALD, US
[72] OWENS, PAUL K., US
[71] ELI LILLY AND COMPANY, US
[85] 2023-04-14
[86] 2021-10-14 (PCT/US2021/071862)
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[30] US (63/092,423) 2020-10-15

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[13] A1

[51] **Int.Cl. H01S 5/183 (2006.01)**
[25] EN
[54] **TUNABLE VCSEL WITH STRAIN COMPENSATED SEMICONDUCTOR DBR**
[54] **VCSEL ACCORDABLE AVEC DBR SEMI-CONDUCTEUR A DEFORMATION COMPENSEE**
[72] KUZNETSOV, MARK E., US
[71] EXCELITAS TECHNOLOGIES CORP., US
[85] 2023-04-14
[86] 2021-10-14 (PCT/US2021/071874)
[87] (WO2022/082203)
[30] US (63/091,412) 2020-10-14

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[21] **3,198,833**
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/077 (2010.01) A61K 35/35 (2015.01) A61K 35/28 (2015.01) A61P 35/00 (2006.01)**

[25] EN

[54] **PRODUCTION OF MEGAKARYOCYTES AND PLATELETS IN A CO-CULTURE SYSTEM**

[54] **PRODUCTION DE MEGACARYOCYTES ET DE PLAQUETTES DANS UN SYSTEME DE CO-CULTURE**

[72] SHPALL, ELIZABETH, US

[72] REZVANI, KATY, US

[72] KUMAR, BIJENDER, US

[72] MENDT, MAYELA, US

[72] AFSHAR-KHARGAN, VAHID, US

[72] BASAR, RAFET, US

[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

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[86] 2021-10-15 (PCT/US2021/071903)

[87] (WO2022/082224)

[30] US (63/092,024) 2020-10-15

[21] **3,198,834**
[13] A1

[51] **Int.Cl. E21B 19/16 (2006.01) E21B 44/02 (2006.01)**

[25] EN

[54] **ADAPTIVE DRILLSTRING CONDITION DETERMINATION**

[54] **DETERMINATION DE CONDITION DE TRAIN DE TIGES DE FORAGE ADAPTATIVE**

[72] GUTAROV, PAVEL, FR

[72] VALLET, LAURENT, FR

[72] CHEVALLIER, BERTRAND LUC, SG

[71] SCHLUMBERGER CANADA LIMITED, CA

[85] 2023-04-14

[86] 2021-10-15 (PCT/US2021/071906)

[87] (WO2022/082227)

[30] US (63/093,022) 2020-10-16

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[13] A1

[51] **Int.Cl. G02B 6/44 (2006.01)**

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[54] **FIBER ORGANIZER**

[54] **ORGANISEUR DE FIBRES**

[72] HENDRIX, WALTER MARK, US

[72] DUNN, MORGAN, US

[71] VIAPHOTON, INC., US

[85] 2023-04-17

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[30] US (17/345,897) 2021-06-11

[21] **3,198,836**
[13] A1

[51] **Int.Cl. G05D 21/02 (2006.01) B01F 23/00 (2022.01) A61M 1/00 (2006.01) A61M 1/28 (2006.01)**

[25] EN

[54] **MEDICAMENT PREPARATION DEVICES, METHODS, AND SYSTEMS**

[54] **DISPOSITIFS, PROCEDES ET SYSTEMES DE PREPARATION DE MEDICAMENT**

[72] FRIEDERICHS, GOETZ, US

[72] YANTZ, GREGORY, US

[71] NXSTAGE MEDICAL, INC., US

[85] 2023-04-17

[86] 2021-10-19 (PCT/US2021/055550)

[87] (WO2022/086922)

[30] US (63/104,899) 2020-10-23

[21] **3,198,837**
[13] A1

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

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[54] **MINIMIZING IMMUNOGENICITY OF DECELLULARIZED TISSUES**

[54] **REDUCTION DE L'IMMUNOGENICITE DE TISSUS DECELLULARISES**

[72] BROCKBANK, KELVIN GM, US

[71] TISSUE TESTING TECHNOLOGIES LLC, US

[85] 2023-04-17

[86] 2021-10-20 (PCT/US2021/055788)

[87] (WO2022/087089)

[30] US (63/094,591) 2020-10-21

[21] **3,198,838**
[13] A1

[51] **Int.Cl. C08G 59/18 (2006.01) C08G 59/22 (2006.01) C08G 59/32 (2006.01)**

[25] EN

[54] **POLYMERIZING COMPOSITION, METHOD OF MANUFACTURE THEREOF AND ARTICLES COMPRISING THE SAME**

[54] **COMPOSITION DE POLYMERISATION, SON PROCEDE DE FABRICATION ET ARTICLES LA COMPRENANT**

[72] LESSER, ALAN JAMES, US

[72] CAMARDA, DANIEL SCOTT, US

[72] LAMPE, MATTHEW, US

[72] MUELLER-CRISTADORO, ANNA MARIA, DE

[72] MINNICHELLI, MARK D., US

[72] SARAF, CHINMAY, US

[72] LINNENBRINK, MARTIN, DE

[72] DAGUERRE-BRADFORD, JOHN, US

[71] THE UNIVERSITY OF MASSACHUSETTS, US

[71] BASF SE, DE

[85] 2023-04-17

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[87] (WO2022/087096)

[30] US (63/093,923) 2020-10-20

[21] **3,198,839**
[13] A1

[51] **Int.Cl. G06T 13/20 (2011.01) G06T 13/40 (2011.01) G06F 3/0484 (2022.01) G06F 3/01 (2006.01)**

[25] EN

[54] **CONVERSION OF TEXT TO DYNAMIC VIDEO**

[54] **CONVERSION DE TEXTE EN VIDEO DYNAMIQUE**

[72] COLLIER, JEFFREY JAY, US

[71] COLLIER, JEFFREY JAY, US

[85] 2023-04-17

[86] 2021-10-20 (PCT/US2021/055924)

[87] (WO2022/087186)

[30] US (63/104,184) 2020-10-22

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[13] A1

[51] **Int.Cl. A23D 7/005 (2006.01) A23L 29/00 (2016.01) A23L 29/30 (2016.01) A23L 33/105 (2016.01) A23D 7/01 (2006.01) A23L 2/52 (2006.01) A23L 2/60 (2006.01)**

[25] EN

[54] **CLEAR PLANT EXTRACT EMULSION AND METHOD FOR PREPARATION**

[54] **EMULSION D'EXTRAIT VEGETAL LIMPIDE ET PROCEDE DE PREPARATION**

[72] RIEFLER, RODGER SCOTT, US

[72] FLEMMENS, MICHAEL S., US

[72] SONDHEIM, DANIEL, US

[72] BRYAN, JERRY, US

[72] HAFEMAN, HALI, US

[72] WAMSLEY, DONNA K., US

[72] LEE, HOWARD, US

[71] SORSE TECHNOLOGY CORPORATION, US

[85] 2023-04-17

[86] 2021-10-21 (PCT/US2021/056032)

[87] (WO2022/087252)

[30] US (63/094,890) 2020-10-21

[30] US (17/507,130) 2021-10-21

[21] **3,198,841**
[13] A1

[51] **Int.Cl. G02B 6/00 (2006.01) H04N 13/32 (2018.01) G02B 30/33 (2020.01)**

[25] EN

[54] **HORIZONTAL PARALLAX MULTIVIEW BACKLIGHT, DISPLAY, AND METHOD**

[54] **RETROECLAIRAGE A VUES MULTIPLES A PARALLAXE HORIZONTALE, AFFICHAGE ET PROCEDE**

[72] FATTAL, DAVID A., US

[72] HOEKMAN, THOMAS, US

[72] MA, MING, US

[71] LEIA INC., US

[85] 2023-04-17

[86] 2021-10-27 (PCT/US2021/056899)

[87] (WO2022/098549)

[30] US (63/111,209) 2020-11-09

[21] **3,198,842**
[13] A1

[51] **Int.Cl. C12Q 1/6834 (2018.01) C12Q 1/6874 (2018.01)**

[25] EN

[54] **SEQUENCING TEMPLATES COMPRISING MULTIPLE INSERTS AND COMPOSITIONS AND METHODS FOR IMPROVING SEQUENCING THROUGHPUT**

[54] **MODELES DE SEQUENCAGE COMPRENANT DE MULTIPLES INSERTS ET COMPOSITIONS ET PROCEDES D'AMELIORATION DU DEBIT DE SEQUENCAGE**

[72] KHURANA, TARUN, US

[72] WU, YIR-SHYUAN, US

[72] GORMLEY, NIALL ANTHONY, GB

[72] BOUTELL, JONATHAN MARK, GB

[71] ILLUMINA, INC., US

[71] ILLUMINA CAMBRIDGE LIMITED, GB

[85] 2023-04-18

[86] 2021-10-20 (PCT/US2021/055878)

[87] (WO2022/087150)

[30] US (63/094,422) 2020-10-21

[30] US (63/256,040) 2021-10-15

[21] **3,198,843**
[13] A1

[51] **Int.Cl. A61B 17/15 (2006.01) A61B 17/00 (2006.01) A61B 17/17 (2006.01) A61B 17/56 (2006.01) A61F 2/46 (2006.01)**

[25] EN

[54] **ADJUSTABLE CUTTING GUIDE APPARATUS FOR USE IN ORTHOPEDIC SURGERY**

[54] **APPAREIL DE GUIDAGE DE COUPE REGLABLE DESTINE A ETRE UTILISE EN CHIRURGIE ORTHOPEDIQUE**

[72] MILELLA, MICHAEL J., US

[72] HALE, LANE, US

[72] GOBLE, E., MARLOWE, US

[71] ECA MEDICAL INSTRUMENTS, INC., US

[85] 2023-04-18

[86] 2021-10-20 (PCT/US2021/055916)

[87] (WO2022/087179)

[30] US (17/075,247) 2020-10-20

[21] **3,198,844**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01)**

[25] EN

[54] **NOVEL ANTI-LILRB2 ANTIBODIES AND DERIVATIVE PRODUCTS**

[54] **NOUVEAUX ANTICORPS ANTI-LILRB2 ET PRODUITS DERIVES**

[72] COSTA, MARIA JOSE, US

[72] STAFFORD, RYAN, US

[72] MCCUTCHEON, KRISTA, US

[72] MA, JING-TYAN, US

[72] HONG, KYU HEE, US

[72] TIAN, HONGYU, US

[72] SONG, AN, US

[72] LIAO, X. CHARLENE, US

[71] IMMUNE-ONC THERAPEUTICS, INC., US

[85] 2023-04-18

[86] 2021-10-20 (PCT/US2021/055927)

[87] (WO2022/087188)

[30] US (63/094,354) 2020-10-21

[30] US (63/110,317) 2020-11-05

[21] **3,198,845**
[13] A1

[51] **Int.Cl. G02F 1/133 (2006.01) B60L 53/16 (2019.01)**

[25] EN

[54] **FORCED AIR COOLING FOR DISPLAY ASSEMBLIES**

[54] **REFROIDISSEMENT PAR CIRCULATION D'AIR FORCEE POUR ENSEMBLES D'AFFICHAGE**

[72] DUNN, WILLIAM, US

[72] DIAZ, MARCOS, US

[72] MOREAU, ALEX, US

[71] MANUFACTURING RESOURCES INTERNATIONAL, INC., US

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[86] 2021-10-22 (PCT/US2021/056353)

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[30] US (17/078,861) 2020-10-23

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[21] **3,198,846**
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**
[25] EN
[54] **LIQUID SUPPLY TANK SENSING ARRANGEMENT FOR BEVERAGE MACHINE**
[54] **AGENCEMENT DE DETECTION DE RESERVOIR D'ALIMENTATION EN LIQUIDE POUR MACHINE A BOISSON**
[72] GENG, CHANG, CN
[72] ZHONG, FAYONG, US
[72] MA, CONGXING, US
[72] XU, ZHENG, US
[71] KEURIG GREEN MOUNTAIN, INC., US
[85] 2023-04-18
[86] 2021-10-26 (PCT/US2021/056613)
[87] (WO2022/093795)
[30] US (63/106,795) 2020-10-28

[21] **3,198,848**
[13] A1

[51] **Int.Cl. G02B 6/00 (2006.01) H04N 13/32 (2018.01) G02B 30/33 (2020.01)**
[25] EN
[54] **ACTIVE EMITTER MULTIVIEW BACKLIGHT, DISPLAY, AND METHOD EMPLOYING A DIFFUSER**
[54] **RETROECLAIRAGE A VUES MULTIPLES A EMETTEUR ACTIF, AFFICHAGE ET PROCEDE UTILISANT UN DIFFUSEUR**
[72] FATTAL, DAVID A., US
[72] HOEKMAN, THOMAS, US
[72] MA, MING, US
[71] LEIA INC., US
[85] 2023-04-17
[86] 2021-10-27 (PCT/US2021/056901)
[87] (WO2022/098550)
[30] US (63/111,209) 2020-11-09

[21] **3,198,850**
[13] A1

[51] **Int.Cl. E21B 7/14 (2006.01) E21B 47/07 (2012.01) E21B 21/08 (2006.01) E21B 44/00 (2006.01) E21B 49/00 (2006.01)**
[25] EN
[54] **BASEMENT ROCK HYBRID DRILLING**
[54] **FORAGE HYBRIDE DE ROCHE DE BASE**
[72] ARAQUE, CARLOS, US
[72] LAMB, JUSTIN, US
[72] MONMONT, FRANCK, US
[72] PHAN, HY, US
[72] HOUDE, MATTHEW, US
[71] QUAISE, INC., US
[85] 2023-04-17
[86] 2021-11-04 (PCT/US2021/057999)
[87] (WO2022/098830)
[30] US (17/090,410) 2020-11-05

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[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01) C12Q 1/6806 (2018.01) G01F 23/292 (2006.01) G01N 1/10 (2006.01) G01N 15/14 (2006.01) G01N 33/483 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RAPID MULTIPLEXED SAMPLE PROCESSING WITH APPLICATIONS FOR NUCLEIC ACID AMPLIFICATION ASSAYS**
[54] **SYSTEME ET PROCEDE DE TRAITEMENT D'ECHANTILLON MULTIPLEXE RAPIDE AVEC DES APPLICATIONS POUR DES DOSAGES D'AMPLIFICATION D'ACIDE NUCLEIQUE**
[72] HANDIQUE, KALYAN, US
[72] LEBOFISKY, RONALD, US
[71] BIO-RAD LABORATORIES, INC., US
[85] 2023-04-17
[86] 2021-10-12 (PCT/US2021/054574)
[87] (WO2022/086759)
[30] US (63/093,727) 2020-10-19

[21] **3,198,849**
[13] A1

[51] **Int.Cl. G09F 13/22 (2006.01) F21S 4/28 (2016.01) C09J 1/02 (2006.01) G09F 13/04 (2006.01)**
[25] EN
[54] **LED LIGHTING DEVICE**
[54] **DISPOSITIF D'ECLAIRAGE A DEL**
[72] AN, KETAK, US
[71] BITRO GROUP, INC., US
[85] 2023-04-17
[86] 2021-10-28 (PCT/US2021/057002)
[87] (WO2022/094043)
[30] US (63/107,086) 2020-10-29
[30] US (63/107,098) 2020-10-29
[30] US (63/107,096) 2020-10-29
[30] US (63/107,101) 2020-10-29

[21] **3,198,851**
[13] A1

[51] **Int.Cl. A61B 17/03 (2006.01) A61B 17/04 (2006.01)**
[25] EN
[54] **DEVICES FOR ADJUSTABLY TENSIONING SUTURES, AND ASSOCIATED SYSTEMS AND METHODS**
[54] **DISPOSITIFS POUR TENDRE DE MANIERE AJUSTABLE DES SUTURES ET SYSTEMES ET PROCEDES ASSOCIES**
[72] MACIAS, JACQUELINE, US
[72] ENRIGHT, PAIGE ELIZABETH, US
[72] TU, THOMAS M., US
[71] INARI MEDICAL, INC., US
[85] 2023-04-17
[86] 2021-11-10 (PCT/US2021/058793)
[87] (WO2022/103848)
[30] US (63/111,774) 2020-11-10

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[13] A1

[51] **Int.Cl. C07C 217/42 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING SECONDARY AND TERTIARY AMINES**
[54] **PROCEDE DE PRODUCTION D'AMINES SECONDAIRES ET TERTIAIRES**
[72] KORDAS, IMRE, HU
[72] BUONO, PIETRO, BE
[72] MEREDITH, MATTHEW T., US
[72] HUMBERT, HEIKO HEINRICH, DE
[72] GASPAR, ATTILA, HU
[72] VANDERSTRATEN, PETRA EMMA, BE
[71] HUNTSMAN PETROCHEMICAL LLC, US
[85] 2023-04-18
[86] 2021-11-05 (PCT/US2021/058166)
[87] (WO2022/098940)
[30] US (63/110,592) 2020-11-06

[21] **3,198,853**
[13] A1

[51] **Int.Cl. A61K 8/27 (2006.01) A61K 8/37 (2006.01) A61K 8/41 (2006.01) A61K 8/44 (2006.01) A61K 8/49 (2006.01) A61K 8/73 (2006.01) A61Q 5/00 (2006.01)**
[25] EN
[54] **PERSONAL CARE COMPOSITIONS FREE OF SULFATED SURFACTANTS**
[54] **COMPOSITIONS DE SOINS PERSONNELS EXEMPTES DE TENSIOACTIFS SULFATES**
[72] RENOCK, SEAN MICHAEL, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2023-04-18
[86] 2021-11-18 (PCT/US2021/059834)
[87] (WO2022/109094)
[30] US (63/117,064) 2020-11-23
[30] US (63/151,851) 2021-02-22

[21] **3,198,854**
[13] A1

[51] **Int.Cl. G06T 9/00 (2006.01) H04N 19/597 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **INTER PREDICTION CODING FOR GEOMETRY POINT CLOUD COMPRESSION**
[54] **CODAGE D'INTER-PREDICTION POUR COMPRESSION DE NUAGE DE POINTS GEOMETRIQUE**
[72] RAMASUBRAMONIAN, ADARSH KRISHNAN, US
[72] RAY, BAPPADITYA, US
[72] PHAM VAN, LUONG, US
[72] VAN DER AUWERA, GEERT, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2023-04-18
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[87] (WO2022/147100)
[30] US (63/131,716) 2020-12-29
[30] US (63/134,492) 2021-01-06
[30] US (63/170,907) 2021-04-05
[30] US (63/177,186) 2021-04-20
[30] US (63/179,892) 2021-04-26
[30] US (63/218,170) 2021-07-02
[30] US (17/646,217) 2021-12-28

[21] **3,198,855**
[13] A1

[51] **Int.Cl. E21B 19/14 (2006.01)**
[25] EN
[54] **AUTOMATED FINGERBOARD FOR A DRILLING RIG**
[54] **RATELIER A TIGES CREUSES AUTOMATISE POUR APPAREIL DE FORAGE**
[72] SKIBSRUD, RUNE, NO
[72] TINDVIK, KRISTIAN, NO
[72] HOLEN, DAG, NO
[72] JANSEN, IVAR MAGNUS, NO
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2023-04-18
[86] 2021-10-20 (PCT/US2021/071932)
[87] (WO2022/087590)
[30] US (63/094,727) 2020-10-21

[21] **3,198,856**
[13] A1

[51] **Int.Cl. H04N 19/18 (2014.01) H04N 19/13 (2014.01) H04N 19/134 (2014.01) H03M 7/40 (2006.01)**
[25] EN
[54] **LOW COMPLEXITY HISTORY USAGE FOR RICE PARAMETER DERIVATION FOR HIGH BIT-DEPTH VIDEO CODING**
[54] **UTILISATION D'HISTORIQUE DE FAIBLE COMPLEXITE POUR UNE DERIVATION DE PARAMETRES DE RICE POUR UN CODAGE VIDEO A HAUTE PROFONDEUR DE BITS**
[72] RUSANOVSKYY, DMYTRO, US
[72] KARCZEWICZ, MARTA, US
[71] QUALCOMM INCORPORATED, US
[85] 2023-04-18
[86] 2021-12-21 (PCT/US2021/073060)
[87] (WO2022/140777)
[30] US (63/128,641) 2020-12-21
[30] US (17/645,187) 2021-12-20

[21] **3,198,857**
[13] A1

[51] **Int.Cl. B65D 47/20 (2006.01) A61M 39/24 (2006.01) B05B 11/04 (2006.01) B65D 35/50 (2006.01) B65D 47/24 (2006.01) F16K 15/14 (2006.01)**
[25] EN
[54] **VALVE**
[54] **VALVE**
[72] WISNIEWSKI, JOHN, US
[72] LABEAN, ROBERT J., US
[71] APTARGROUP, INC., US
[85] 2023-04-19
[86] 2021-09-30 (PCT/US2021/052885)
[87] (WO2022/086691)
[30] US (63/093,514) 2020-10-19

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[21] **3,198,858**
[13] A1

[51] **Int.Cl. B65G 33/14 (2006.01) B09B 3/00 (2022.01) B30B 1/18 (2006.01) B30B 11/24 (2006.01) B65G 33/00 (2006.01) B65G 33/08 (2006.01)**

[25] EN

[54] **APPARATUS AND PROCESS FOR A KINETIC FEED PLUG SCREW**

[54] **APPAREIL ET PROCEDE DESTINES A UN BOUCHON FILETE D'INTRODUCTION CINETIQUE**

[72] LACKEY, RAYMOND EDWARD, US

[71] M.S.T. CORPORATION, US

[85] 2023-04-19

[86] 2021-10-15 (PCT/US2021/055133)

[87] (WO2022/086804)

[30] US (17/078,894) 2020-10-23

[21] **3,198,859**
[13] A1

[51] **Int.Cl. H04W 12/00 (2021.01) H04W 12/06 (2021.01) G06Q 50/26 (2012.01) G06Q 50/34 (2012.01) G06Q 30/00 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MULTI-FACTOR LOCATION-BASED DEVICE VERIFICATION**

[54] **SYSTEMES ET PROCEDES DE VERIFICATION DE DISPOSITIF BASEE SUR UN EMLACEMENT A FACTEURS MULTIPLES**

[72] BURNS, JAMES, US

[72] AI, JUNQIAO, US

[72] DENHAM, STEPHEN, US

[72] SCHEAR, MIKE, US

[72] GOLDSTEIN, ADAM, US

[72] LARSON, BRETT, US

[71] AMERICAN WAGERING, INC., US

[85] 2023-04-19

[86] 2021-10-15 (PCT/US2021/055150)

[87] (WO2022/086809)

[30] US (17/073,971) 2020-10-19

[21] **3,198,860**
[13] A1

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

[25] EN

[54] **ANVIL BUTTRESS ATTACHMENT FOR SURGICAL STAPLING APPARATUS**

[54] **ACCESSOIRE DE CONTREFORT D'ENCLUME D'APPAREIL D'AGRAFAGE CHIRURGICAL**

[72] ABRAMEK, PAWEL, US

[72] CAPPOLA, KENNETH M., US

[72] CHOWANIEC, MATTHEW J., US

[72] FERNANDES, ROANIT, IN

[71] COVIDIEN LP, US

[85] 2023-04-19

[86] 2021-10-18 (PCT/US2021/055376)

[87] (WO2022/086842)

[30] US (17/073,545) 2020-10-19

[21] **3,198,861**
[13] A1

[51] **Int.Cl. A61N 1/05 (2006.01) A61N 1/36 (2006.01)**

[25] EN

[54] **INTRAVAGINAL ELECTRICAL STIMULATION DEVICE FOR TREATING FEMALE PELVIC PAIN**

[54] **DISPOSITIF DE STIMULATION ELECTRIQUE INTRAVAGINALE DE TRAITEMENT DE LA DOULEUR PELVIENNE CHEZ LA FEMME**

[72] YOUNG, ERIK B., US

[71] IVES, LLC, US

[85] 2023-04-19

[86] 2021-10-19 (PCT/US2021/055506)

[87] (WO2022/086893)

[30] US (63/104,588) 2020-10-23

[21] **3,198,862**
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 33/124 (2006.01) E21B 34/06 (2006.01) E21B 34/14 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **PHASE TRANSFORMATION MATERIAL DELIVERY AND DEPLOYMENT CHASSIS FOR OPENHOLE ISOLATION**

[54] **CHASSIS DE DEPLOIEMENT ET DE DISTRIBUTION DE MATIERE DE TRANSFORMATION DE PHASE POUR ISOLATION DE TROU DECOUVERT**

[72] MAHENDRAN, MATHUSAN, BR

[72] LEMUS TORRES, LUIS FERNANDO, BR

[72] RODRIGUES, DESIDERIO NAEGELE, JR., BR

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-04-19

[86] 2021-01-07 (PCT/US2021/012499)

[87] (WO2022/146453)

[30] US (17/138,228) 2020-12-30

[21] **3,198,863**
[13] A1

[51] **Int.Cl. E21B 33/128 (2006.01) E21B 23/06 (2006.01) E21B 34/10 (2006.01)**

[25] EN

[54] **PACKER SUB WITH CHECK VALVE**

[54] **RACCORD DOUBLE FEMELLE DE GARNITURE D'ETANCHEITE AVEC CLAPET DE NON-RETOUR**

[72] HOWITT, GARRY MARTIN, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-04-19

[86] 2021-02-28 (PCT/US2021/020149)

[87] (WO2022/182367)

[30] US (17/187,779) 2021-02-27

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[21] **3,198,864**
[13] A1

[51] **Int.Cl. A61M 5/50 (2006.01) A61M 5/31 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **IMPACT RESISTANT AND TAMPER EVIDENT SYSTEM FOR PREFILLED SYRINGE**
[54] **SYSTEME RESISTANT AUX CHOCS ET INVIOLEBLE POUR SERINGUE PRE-REMPLE**
[72] MURRAY, CHRISTOPHER J., US
[71] FRESENIUS KABI USA, LLC, US
[85] 2023-04-19
[86] 2021-10-19 (PCT/US2021/055587)
[87] (WO2022/086944)
[30] US (16/949,226) 2020-10-20

[21] **3,198,865**
[13] A1

[51] **Int.Cl. G01C 11/02 (2006.01) G03B 15/00 (2021.01) G03B 37/04 (2021.01)**
[25] EN
[54] **VARIABLE FOCAL LENGTH MULTI-CAMERA AERIAL IMAGING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'IMAGERIE AERIENNE A CAMERAS MULTIPLES A DISTANCES FOCALES VARIABLES**
[72] GIUFFRIDA, FRANK, US
[71] PICTOMETRY INTERNATIONAL CORP., US
[71] GIUFFRIDA, FRANK, US
[85] 2023-04-19
[86] 2021-10-19 (PCT/US2021/055630)
[87] (WO2022/086976)
[30] US (63/093,562) 2020-10-19

[21] **3,198,866**
[13] A1

[51] **Int.Cl. A61F 2/12 (2006.01) A61F 2/52 (2006.01)**
[25] EN
[54] **VOID OCCLUSION DEVICE**
[54] **DISPOSITIF D'OCCLUSION DE VIDE**
[72] WEEMS, ANDREW, US
[72] LAWSON, ELIZABETH, US
[71] RESILIENT MEDICAL CORP., US
[85] 2023-04-19
[86] 2021-10-20 (PCT/US2021/055791)
[87] (WO2022/087092)
[30] US (17/078,940) 2020-10-23

[21] **3,198,867**
[13] A1

[51] **Int.Cl. B01D 29/86 (2006.01) B01D 61/14 (2006.01) B01D 65/08 (2006.01) B01L 3/00 (2006.01) G01N 1/38 (2006.01) G01N 1/40 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO FLUID SAMPLE PREPARATION**
[54] **AMELIORATIONS APORTEES A LA PREPARATION D'ECHANTILLON DE FLUIDE**
[72] MARTURANO, ALESSANDRO, GB
[72] FATOYINBO, HENRY OLUSEYI, GB
[72] SAHA, ATREYEE, GB
[72] KILLPACK, JARRETT, GB
[71] DNAE DIAGNOSTICS LIMITED, GB
[85] 2023-04-14
[86] 2021-10-15 (PCT/GB2021/052679)
[87] (WO2022/079447)
[30] GB (2016433.1) 2020-10-16

[21] **3,198,868**
[13] A1

[51] **Int.Cl. C22C 18/04 (2006.01) C22C 37/00 (2006.01) C22C 37/08 (2006.01) C22C 37/10 (2006.01) C23C 2/00 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01) C23C 24/00 (2006.01) C23C 24/08 (2006.01)**
[25] EN
[54] **A COATED CAST IRON SUBSTRATE**
[54] **SUBSTRAT DE FONTE REVETU**
[72] VU, THI TAN, ES
[72] MEGIDO FERNANDEZ, LAURA, ES
[72] DOMINGUEZ FERNANDEZ, CARLOTA, ES
[72] RODRIGUEZ GARCIA, JORGE, ES
[72] NORIEGA PEREZ, DAVID, ES
[72] SUAREZ SANCHEZ, ROBERTO, ES
[72] BLANCO ROLDAN, CRISTINA, ES
[71] VERDICIO SOLUTIONS A.I.E., ES
[85] 2023-04-14
[86] 2020-10-29 (PCT/IB2020/060148)
[87] (WO2022/090770)

[21] **3,198,869**
[13] A1

[51] **Int.Cl. C09J 7/20 (2018.01) C09J 7/38 (2018.01) B32B 3/30 (2006.01) B32B 7/12 (2006.01)**
[25] EN
[54] **ADHESIVE ASSEMBLIES PERMITTING ENHANCED WEIGHT BEARING PERFORMANCE WITH DAMAGE FREE REMOVAL**
[54] **ENSEMBLES ADHESIFS PERMETTANT DES PERFORMANCES PORTANTES AMELIOREES AVEC ENLEVEMENT SANS DOMMAGE**
[72] TAN, DAWUD H., US
[72] KRULL, BRETT P., US
[72] SHERIDAN, MARGARET M., US
[72] FORNEY, BRADLEY S., US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2023-04-14
[86] 2021-10-08 (PCT/IB2021/059241)
[87] (WO2022/079557)
[30] US (63/092,348) 2020-10-15

[21] **3,198,870**
[13] A1

[51] **Int.Cl. E21B 33/16 (2006.01) E21B 23/04 (2006.01) E21B 33/126 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **FILTER PLUG TO PREVENT PROPPANT FLOWBACK**
[54] **BOUCHON FILTRE DESTINE A EMPECHER UN REFLUX D'AGENT DE SOUTENEMENT**
[72] FRIPP, MICHAEL LINLEY, US
[72] ORNELAZ, RICHARD DECENA, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2023-04-17
[86] 2020-12-09 (PCT/US2020/063903)
[87] (WO2022/125084)
[30] US (17/116,076) 2020-12-09

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[21] **3,198,871**
[13] A1

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 17/08 (2006.01) E21B 23/04 (2006.01) E21B 34/10 (2006.01)**

[25] EN

[54] **BALL SEAT RELEASE APPARATUS INCLUDING SLIDING SHEAR SLEEVE**

[54] **APPAREIL DE LIBERATION DE SIEGE DE ROTULE COMPRENANT UN MANCHON DE CISAILLEMENT COULISSANT**

[72] GHARESI, ABDOLREZA, US

[72] JACKSON, ALAN TANCEL, US

[72] NOFFKE, RICHARD PAUL, US

[72] MADDUX, STEPHEN, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-04-17

[86] 2020-12-22 (PCT/US2020/066721)

[87] (WO2022/139826)

[30] US (17/131,442) 2020-12-22

[21] **3,198,872**
[13] A1

[51] **Int.Cl. F02C 7/26 (2006.01)**

[25] EN

[54] **PLASMA IGNITION AND COMBUSTION ASSIST SYSTEM FOR GAS TURBINE ENGINES**

[54] **SYSTEME D'ASSISTANCE A LA COMBUSTION ET A L'ALLUMAGE AU PLASMA POUR MOTEURS A TURBINE A GAZ**

[72] HARRIS, MARK, US

[72] BAILEY, PATRICK, US

[72] MONK, DAVID, US

[72] GOMEZ DEL CAMPO, FELIPE, US

[72] WEIBEL, DREW, US

[72] GULKO, ILYA, US

[72] NISHIHARA, MUNETAKE, US

[72] MCLURE, FORD, US

[71] ACUTRONIC TURBINES, INC., US

[85] 2023-04-17

[86] 2022-02-22 (PCT/US2022/017210)

[87] (WO2022/182622)

[30] US (63/153,022) 2021-02-24

[21] **3,198,873**
[13] A1

[51] **Int.Cl. B65D 90/04 (2006.01) B65G 11/16 (2006.01)**

[25] EN

[54] **MODULAR STACKABLE WEAR-RESISTANT PANEL SYSTEM**

[54] **SYSTEME DE PANNEAU EMPILABLE RESISTANT A L'USURE MODULAIRE**

[72] BARIC, ZDENKO (DANNY), AU

[71] FLSMIDTH A/S, DK

[85] 2023-04-14

[86] 2021-10-14 (PCT/IB2021/059444)

[87] (WO2022/079650)

[30] US (63/091,878) 2020-10-14

[21] **3,198,874**
[13] A1

[51] **Int.Cl. C05C 9/00 (2006.01) C05G 3/30 (2020.01) C05G 3/90 (2020.01)**

[25] EN

[54] **METHOD FOR THE MANUFACTURE OF A UREA-BASED COMPOSITION COMPRISING THE ADDITION OF A LIQUID-FREE SOLID ADDITIVE**

[54] **PROCEDE DE FABRICATION D'UNE COMPOSITION A BASE D'UREE COMPRENANT L'AJOUT D'UN ADDITIF SOLIDE SANS LIQUIDE**

[72] VAN BELZEN, RUUD, NL

[72] COLPAERT, FILIP, BE

[72] LEDOUX, FRANCOIS, FR

[71] YARA INTERNATIONAL ASA, NO

[85] 2023-04-17

[86] 2021-12-21 (PCT/EP2021/086943)

[87] (WO2022/136342)

[30] EP (20216182.4) 2020-12-21

[21] **3,198,875**
[13] A1

[51] **Int.Cl. C10G 1/00 (2006.01) C10G 1/02 (2006.01) C10G 1/10 (2006.01) C10G 53/06 (2006.01) C10G 53/08 (2006.01) C10G 55/04 (2006.01)**

[25] EN

[54] **RECOVERY OF ALIPHATIC HYDROCARBONS**

[54] **RECUPERATION D'HYDROCARBURES ALIPHATIQUES**

[72] LANGE, JEAN-PAUL ANDRE MARIE JOSEPH GHISLAIN, NL

[72] VAN ROSSUM, GUUS, NL

[72] OLTHOF, TIMOTHE JOHANNES, NL

[72] FISCHER, KAI JURGEN, NL

[72] STICHTER, HENDRIK, NL

[72] QUEVEDO ENRIQUEZ, JOSE ATILIO, NL

[72] GRAU LISNIER, LUIS ALBERTO, NL

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

[85] 2023-04-17

[86] 2021-11-12 (PCT/EP2021/081486)

[87] (WO2022/101392)

[30] EP (20207461.3) 2020-11-13

[21] **3,198,876**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **CUTIBACTERIUM ACNES RECOMBINANT PHAGES, METHOD OF PRODUCTION AND USES THEREOF**

[54] **PHAGES RECOMBINANTS DE CUTIBACTERIUM ACNES, LEUR PROCEDE DE PRODUCTION ET LEURS UTILISATIONS**

[72] LEVEAU, AYMERIC, FR

[72] CANADAS BLASCO, INES, FR

[72] MATHIEU, AURELIE, FR

[72] DECRULLE, ANTOINE, FR

[71] ELIGO BIOSCIENCE, FR

[85] 2023-04-17

[86] 2021-11-04 (PCT/EP2021/080675)

[87] (WO2022/096596)

[30] US (63/109,832) 2020-11-04

[30] US (63/109,834) 2020-11-04

[30] US (63/145,967) 2021-02-04

[30] US (63/145,969) 2021-02-04

Demandes PCT entrant en phase nationale

[21] **3,198,877**
[13] A1

[51] **Int.Cl. C07F 9/30 (2006.01) C07C 271/22 (2006.01) C07F 9/32 (2006.01) C07F 9/46 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING GLUFOSINATE OR ANALOGUES THEREOF**

[54] **PROCEDE DE PREPARATION DE GLUFOSINATE OU D'UN ANALOGUE DE CELUI-CI**

[72] XU, MIN, CN
[72] LIU, YONGJIANG, CN
[72] ZHOU, LEI, CN
[72] ZENG, WEI, CN
[72] CHENG, KE, CN
[71] LIER CHEMICAL CO., LTD., CN
[85] 2023-05-15
[86] 2022-07-19 (PCT/CN2022/106399)
[87] (WO2023/001132)
[30] CN (202110817871.2) 2021-07-20

[21] **3,198,878**
[13] A1

[51] **Int.Cl. B29B 13/06 (2006.01) F26B 3/06 (2006.01) F26B 17/12 (2006.01) F26B 21/08 (2006.01) F26B 25/00 (2006.01)**

[25] EN

[54] **PLANT FOR DRYING GRANULAR POLYMER MATERIAL**

[54] **INSTALLATION DE SECHAGE DE MATERIAU POLYMERE GRANULAIRE**

[72] PIVA, RINALDO, IT
[71] PEGASO INDUSTRIES S.P.A., IT
[85] 2023-04-14
[86] 2021-10-15 (PCT/IB2021/059503)
[87] (WO2022/079682)
[30] IT (102020000024507) 2020-10-16

[21] **3,198,879**
[13] A1

[51] **Int.Cl. C08G 63/06 (2006.01) C08G 63/89 (2006.01)**

[25] EN

[54] **SEQUESTERED AMORPHOUS POLYHYDROXYALKANOATE POLYMER (SAPP) MATERIAL DERIVED FROM CELLULAR BIOMASS AND PRODUCTION THEREOF**

[54] **MATERIAU DE POLYMERE DE POLYHYDROXYALCANOATE AMORPHE SEQUESTRE (SAPP) DERIVE D'UNE BIOMASSE CELLULAIRE ET SA PRODUCTION**

[72] WHITEHOUSE, ROBERT, US
[71] NOVAMONT S.P.A., IT
[85] 2023-04-17
[86] 2021-10-29 (PCT/EP2021/080182)
[87] (WO2022/090498)
[30] US (17/085,762) 2020-10-30
[30] US (17/085,801) 2020-10-30

[21] **3,198,880**
[13] A1

[51] **Int.Cl. C01B 32/50 (2017.01) C25B 1/135 (2021.01) B01D 53/62 (2006.01) C09C 1/48 (2006.01) C25B 9/00 (2021.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MANUFACTURING CARBON BLACK**

[54] **SYSTEMES ET PROCEDES DE FABRICATION DE NOIR DE CARBONE**

[72] DOUGLAS, ANNA E., US
[72] PINT, CARY L., US
[71] AEROBORN BV, NL
[85] 2023-04-14
[86] 2021-10-15 (PCT/IB2021/059532)
[87] (WO2022/079693)
[30] US (63/092,263) 2020-10-15

[21] **3,198,881**
[13] A1

[51] **Int.Cl. B26D 1/16 (2006.01) B26D 1/18 (2006.01) B26D 1/60 (2006.01) B26D 3/16 (2006.01)**

[25] EN

[54] **CUTTING UNIT FOR THERMOPLASTIC PIPES**

[54] **UNITE DE COUPE POUR TUYAUX THERMOPLASTIQUES**

[72] GULMINELLI, MARCO, IT
[71] SICA S.P.A., IT
[85] 2023-04-14
[86] 2021-11-08 (PCT/IB2021/060302)
[87] (WO2022/101754)
[30] IT (102020000026960) 2020-11-11

[21] **3,198,882**
[13] A1

[51] **Int.Cl. C12N 9/10 (2006.01) C12N 9/88 (2006.01) C12N 15/70 (2006.01) C12P 13/00 (2006.01) C12P 13/04 (2006.01)**

[25] EN

[54] **RECOMBINANT HOST CELLS TO PRODUCE ANTHRANILIC ACID**

[54] **CELLULES HOTES RECOMBINANTES POUR PRODUIRE DE L'ACIDE ANTHRANILIQUE**

[72] CREPIN, LUCIE, FR
[72] SCHIAVON, CAROLINE, FR
[71] PILI, FR
[85] 2023-04-17
[86] 2021-10-28 (PCT/EP2021/079927)
[87] (WO2022/090363)
[30] EP (20306293.0) 2020-10-28

[21] **3,198,883**
[13] A1

[51] **Int.Cl. A47J 37/07 (2006.01)**

[25] EN

[54] **ELECTRIC GRILL**

[54] **GRIL ELECTRIQUE**

[72] CADBURY, GEORGE JUSTIN PETER, GB
[72] EDWARDS, ANDREW NORMAN, GB
[72] O'ROURKE, SAM, GB
[71] ACTIVE FOOD SYSTEMS LIMITED, GB
[85] 2023-04-17
[86] 2021-10-27 (PCT/EP2021/079836)
[87] (WO2022/090317)
[30] GB (2017147.6) 2020-10-29
[30] GB (2103717.1) 2021-03-17

PCT Applications Entering the National Phase

[21] **3,198,884**
[13] A1

[51] **Int.Cl. C10L 1/06 (2006.01) C10L 1/14 (2006.01) C10L 1/16 (2006.01) C10L 1/19 (2006.01) C10L 1/222 (2006.01) C10L 1/223 (2006.01) C10L 10/10 (2006.01)**

[25] EN
[54] **HIGH OCTANE UNLEADED AVIATION GASOLINE**
[54] **ESSENCE D'AVIATION SANS-PLOMB A INDICE D'OCTANE ELEVE**

[72] BENNIS, HANANE
BELMOKADDEM, US

[72] SHEA, TIMOTHY MICHAEL, US

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

[85] 2023-04-17
[86] 2021-10-19 (PCT/EP2021/079005)
[87] (WO2022/084353)
[30] US (63/104,144) 2020-10-22
[30] EP (20205000.1) 2020-10-30

[21] **3,198,887**
[13] A1

[51] **Int.Cl. A61K 6/75 (2020.01) A61K 8/02 (2006.01) A61K 8/24 (2006.01) A61K 8/64 (2006.01) A61K 33/02 (2006.01) A61K 33/16 (2006.01) A61K 33/42 (2006.01) A61P 1/02 (2006.01) A61Q 11/00 (2006.01)**

[25] EN
[54] **ACCELERATING TOOTH REMINERALISATION AND BONE REGENERATION WITH SELF-ASSEMBLING PEPTIDES AND AMORPHOUS CALCIUM PHOSPHATE**
[54] **ACCELERATION DE LA REMINERALISATION DES DENTS ET DE LA REGENERATION OSSEUSE AVEC DES PEPTIDES A AUTO-ASSEMBLAGE ET DU PHOSPHATE DE CALCIUM AMORPHE**

[72] HUG, MICHAEL, CH
[72] LYSEK, DOMINIKUS AMADEUS, CH

[71] CREDITIS AG, CH

[85] 2023-04-17
[86] 2021-10-19 (PCT/EP2021/078902)
[87] (WO2022/084288)
[30] EP (20202539.1) 2020-10-19

[21] **3,198,888**
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/04 (2006.01) C22C 38/60 (2006.01) C23C 22/00 (2006.01) G01N 33/20 (2019.01) H01F 1/147 (2006.01)**

[25] EN
[54] **GRAIN-ORIENTED ELECTRICAL STEEL SHEET, METHOD FOR MANUFACTURING GRAIN-ORIENTED ELECTRICAL STEEL SHEET, AND METHOD FOR EVALUATING GRAIN-ORIENTED ELECTRICAL STEEL SHEET**

[54] **FEUILLE D'ACIER ELECTRIQUE A GRAINS ORIENTES, PROCEDE POUR LA FORMATION D'UNE FEUILLE D'ACIER ELECTRIQUE A GRAINS ORIENTES ET PROCEDE POUR L'EVALUATION D'UNE FEUILLE D'ACIER ELECTRIQUE A GRAINS ORIENTES**

[72] WATANABE, MAKOTO, JP
[72] TERASHIMA, TAKASHI, JP
[72] KOKUFU, KARIN, JP
[71] JFE STEEL CORPORATION, JP

[85] 2023-04-14
[86] 2021-07-26 (PCT/JP2021/027500)
[87] (WO2022/085263)
[30] JP (2020-176601) 2020-10-21

[21] **3,198,889**
[13] A1

[51] **Int.Cl. H01M 6/04 (2006.01) H01M 6/34 (2006.01) H01M 6/42 (2006.01)**

[25] EN
[54] **DEVICE AND METHOD DISPOSITIF ET PROCEDE**

[72] NAKAGAWA, SATOSHI, JP
[71] TRIPOD DESIGN CO., LTD., JP

[85] 2023-04-14
[86] 2021-08-11 (PCT/JP2021/029681)
[87] (WO2022/085277)
[30] JP (2020-175672) 2020-10-19

[21] **3,198,892**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01) A61L 9/20 (2006.01) C02F 1/32 (2006.01)**

[25] EN
[54] **UVC IRRADIATION CONTAINER RECIPIENT DE RAYONNEMENT UVC**

[72] OYAMA, NOBUO, JP
[71] OYAMA, NOBUO, JP

[85] 2023-04-14
[86] 2021-10-13 (PCT/JP2021/037844)
[87] (WO2022/080398)
[30] JP (2020-183200) 2020-10-15

[21] **3,198,893**
[13] A1

[51] **Int.Cl. B61B 13/10 (2006.01) B65G 54/02 (2006.01) F16K 3/02 (2006.01) F16K 3/316 (2006.01) F16K 27/04 (2006.01) F16K 51/02 (2006.01)**

[25] EN
[54] **MODULAR VACUUM VALVE SYSTEM FOR A VACUUM TRANSPORT SYSTEM**
[54] **SYSTEME DE SOUPEPE DE DEPRESSION MODULAIRE POUR SYSTEME DE TRANSPORT SOUS VIDE**

[72] FREHNER, HANSPETER, CH
[72] NETZER, MARTIN, AT
[72] DE MORSIER, DORE, CH
[72] FINKER, PASCAL MANUEL, CH
[72] DUBOIS, FABIO ALEJANDRO, CH
[71] VAT HOLDING AG, CH

[85] 2023-04-17
[86] 2021-10-15 (PCT/EP2021/078578)
[87] (WO2022/084174)
[30] DE (10 2020 006 403.5) 2020-10-19

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[21] **3,198,894**
[13] A1

[51] **Int.Cl. C10L 1/02 (2006.01) C10L 1/08 (2006.01) C10L 1/19 (2006.01) C10L 10/04 (2006.01)**

[25] EN

[54] **USE OF A DIESEL FUEL COMPOSITION**

[54] **UTILISATION D'UNE COMPOSITION DE CARBURANT DIESEL**

[72] WILLIAMS, RODNEY GLYN, GB

[72] RIMMER, JOHN JEFFREY, GB

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

[85] 2023-04-17

[86] 2021-10-19 (PCT/EP2021/078885)

[87] (WO2022/084281)

[30] EP (20202833.8) 2020-10-20

[21] **3,198,895**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **NOVEL ANTI-CD47 ANTIBODIES AND USES THEREOF**

[54] **NOUVEAUX ANTICORPS ANTI-CD47 ET LEURS UTILISATIONS**

[72] WANG, ZHENG YI, CN

[72] CAO, WEI, CN

[72] GUO, BINGSHI, CN

[72] XU, CONG, US

[71] I-MAB BIOPHARMA US LIMITED, US

[85] 2023-04-14

[86] 2021-10-14 (PCT/CN2021/123892)

[87] (WO2022/078465)

[30] CN (PCT/CN2020/120869) 2020-10-14

[30] CN (PCT/CN2020/122188) 2020-10-20

[21] **3,198,896**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 21/62 (2013.01) G06F 7/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR INTERMEDIARY MAPPING AND DE-IDENTIFICATION OF NON-STANDARD DATASETS**

[54] **SYSTEME ET PROCEDE DE MAPPAGE INTERMEDIAIRE ET DE DEPERSONNALISATION D'ENSEMBLES DE DONNEES NON STANDARD**

[72] MIAN, MUHAMMAD ONEEB REHMAN, CA

[72] DI VALENTINO, DAVID NICHOLAS MAURICE, CA

[72] BRADLEY, GEORGE WESLEY, CA

[71] PRIVACY ANALYTICS INC., CA

[85] 2023-04-17

[86] 2021-10-21 (PCT/IB2021/000717)

[87] (WO2022/084745)

[30] US (63/104,724) 2020-10-23

[30] US (17/505,863) 2021-10-20

[21] **3,198,898**
[13] A1

[51] **Int.Cl. B60W 30/182 (2020.01) B60W 60/00 (2020.01) B60W 50/00 (2006.01)**

[25] EN

[54] **AUTOMATED DRIVING BASED ON DRIVER FRUSTRATION**

[54] **CONDUITE AUTOMATISEE BASEE SUR LA FRUSTRATION DU CONDUCTEUR**

[72] CHINTAKINDI, SUNIL, US

[72] KUMAR, SURENDER, US

[71] ALLSTATE INSURANCE COMPANY, US

[85] 2023-04-17

[86] 2021-10-25 (PCT/IB2021/059836)

[87] (WO2022/090903)

[30] US (17/080,367) 2020-10-26

[21] **3,198,900**
[13] A1

[51] **Int.Cl. C05C 9/00 (2006.01) C05G 3/40 (2020.01) C05G 5/12 (2020.01) C05B 13/06 (2006.01)**

[25] EN

[54] **NITROGEN FERTILIZER COMPOSITIONS BASED ON POLYPHOSPHATE CAGED STRUCTURE**

[54] **COMPOSITIONS D'ENGRAIS AZOTES A BASE DE STRUCTURE EN CAGE DE POLYPHOSPHATE**

[72] VARADACHARI, CHANDRIKA, IN

[71] VARADACHARI, CHANDRIKA, IN

[85] 2023-04-17

[86] 2021-11-21 (PCT/IB2021/060786)

[87] (WO2022/107085)

[30] IN (202031050833) 2020-11-23

[21] **3,198,901**
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01) A61K 9/48 (2006.01) A61K 47/14 (2017.01) A61K 47/44 (2017.01)**

[25] EN

[54] **ORAL FORMULATIONS OF NINTEDANIB AND METHOD OF MANUFACTURING THEREOF**

[54] **FORMULATIONS ORALES DE NINTEDANIB ET LEUR PROCEDE DE FABRICATION**

[72] DHARMESH MAHENDRABHAI, SHAH, IN

[72] ARAVIND MANAPPA, BADIGER, IN

[72] MUKESHKUMAR SUBHASHCHANDRA, SHARMA, IN

[72] MADHAVKUMAR DILIPBHAI, TRIVEDI, IN

[72] RAKSHIT KETANBHAI, CHOKSI, IN

[72] SAMIRKUMAR BABULAL, PANCHAL, IN

[72] PRATIK ASHWINBHAI, VORA, IN

[72] HARIKRISHNABHAI VINUBHAI, PATEL, IN

[72] SHREYASH PRAKASHKUMAR, SHAH, IN

[72] PRASHANT KANAIYALAL, GANDHI, IN

[71] BDR PHARMACEUTICALS INTERNATIONAL PRIVATE LIMITED, IN

[85] 2023-04-17

[86] 2021-10-14 (PCT/IN2021/050984)

[87] (WO2022/079737)

[30] IN (202021044873) 2020-10-15

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[51] Int.Cl. A01N 63/00 (2020.01) C07D 209/26 (2006.01)	[51] Int.Cl. C12N 15/11 (2006.01) C12N 9/22 (2006.01)	[51] Int.Cl. H04W 64/00 (2009.01) H04W 4/02 (2018.01) G01S 5/02 (2010.01) G01S 5/14 (2006.01) G01S 11/10 (2006.01)
[25] EN	[25] EN	[25] EN
[54] AGRICULTURAL COMPOSITION OF INDOLACETIC ACID HAVING INCREASED PHOTOSABILITY, PROCESS FOR THE PRODUCTION AND USE THEREOF	[54] DNA-CONTAINING POLYNUCLEOTIDES AND GUIDES FOR CRISPR TYPE V SYSTEMS, AND METHODS OF MAKING AND USING THE SAME	[54] USER EQUIPMENT (UE) MOVEMENT STATE ESTIMATION BASED ON MEASUREMENTS FOR TWO OR MORE SITES IN A WIRELESS NETWORK
[54] COMPOSITION AGRICOLE D'ACIDE INDOLACETIQUE A PHOTOSTABILITE AUGMENTEE, PROCEDE DE PRODUCTION ET UTILISATION DE LADITE COMPOSITION	[54] POLYNUCLEOTIDES ET GUIDES CONTENANT DE L'ADN POUR SYSTEMES CRISPR DE TYPE V, ET LEURS METHODES DE FABRICATION ET D'UTILISATION	[54] ESTIMATION D'ETAT DE MOUVEMENT D'UN EQUIPEMENT UTILISATEUR (UE) SUR LA BASE DE MESURES POUR DEUX SITES OU PLUS DANS UN RESEAU SANS FIL
[72] FUKAMI, JOSIANE, BR	[72] DONOHOU, PAUL DANIEL, US	[72] WIGREN, TORBJORN, SE
[72] GOMES, DOUGLAS FABIANO, BR	[71] CARIBOU BIOSCIENCES, INC., US	[72] MULLER, WALTER, SE
[72] MARCOLINA GOMES, JULIANA, BR	[85] 2023-04-18	[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[72] HIPOLITO DE ASSIS FILHO, JONAS, BR	[86] 2021-10-18 (PCT/US2021/055394)	[85] 2023-04-18
[71] TOTAL BIOTECHNOLOGIA INDUSTRIA E COMERCIO S/A, BR	[87] (WO2022/086846)	[86] 2020-10-19 (PCT/SE2020/051001)
[85] 2023-04-17	[30] US (63/093,459) 2020-10-19	[87] (WO2022/086378)
[86] 2021-04-09 (PCT/BR2021/050145)	[30] US (63/127,648) 2020-12-18	
[87] (WO2022/213163)	[30] US (63/229,870) 2021-08-05	
[21] 3,198,904 [13] A1	[21] 3,198,906 [13] A1	[21] 3,198,908 [13] A1
[51] Int.Cl. B60B 27/00 (2006.01) B60C 23/04 (2006.01)	[51] Int.Cl. F41G 1/34 (2006.01) F41G 1/30 (2006.01) F41G 1/35 (2006.01) F41G 1/36 (2006.01)	[51] Int.Cl. A61K 31/137 (2006.01) A61P 9/02 (2006.01)
[25] EN	[25] EN	[25] EN
[54] MONITORING DEVICE FOR A VEHICLE, WARNING SYSTEM AND METHOD FOR OPERATING A MONITORING DEVICE	[54] VIEWING OPTIC WITH A SOLAR PANEL	[54] STABLE, INJECTABLE NORADRENALINE SOLUTIONS FREE OF ANTIOXIDANTS
[54] DISPOSITIF DE SURVEILLANCE POUR UN VEHICULE, SYSTEME D'AVERTISSEMENT ET PROCEDE DE FONCTIONNEMENT D'UN DISPOSITIF DE SURVEILLANCE	[54] OPTIQUE DE VISUALISATION POURVUE D'UN PANNEAU SOLAIRE	[54] SOLUTIONS DE NORADRENALINE INJECTABLES STABLES EXEMPTES D'ANTIOXYDANTS
[72] SCHROEDEL, HELMUT, DE	[72] MORELL, ROB, US	[72] CARONZOLO, NICOLA, CH
[72] LARSEN, DAVID WAYNE, DE	[71] SHELTERED WINGS, INC. D/B/A VORTEX OPTICS, US	[72] DONATI, ELISABETTA, CH
[72] CICCHINI, MERCURIO, DE	[85] 2023-04-18	[72] BIANCHI, CLARA, CH
[71] SCHROEDEL, HELMUT, DE	[86] 2021-10-19 (PCT/US2021/055585)	[71] SINTETICA S.A., CH
[85] 2023-04-17	[87] (WO2022/086943)	[85] 2023-04-17
[86] 2021-04-20 (PCT/EP2021/000049)	[30] US (63/093,891) 2020-10-20	[86] 2021-09-29 (PCT/EP2021/076849)
[87] (WO2022/078618)		[87] (WO2022/083993)
[30] DE (10 2020 006 399.3) 2020-10-17		[30] EP (20203036.7) 2020-10-21
[30] DE (10 2021 001 843.5) 2021-04-09		

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[21] **3,198,912**
[13] A1

[51] **Int.Cl. A47J 31/54 (2006.01) A47J 31/56 (2006.01)**
[25] EN
[54] **BEVERAGE MACHINE WITH LIQUID LEVEL MEASUREMENT**
[54] **MACHINE A BOISSON A MESURE DE NIVEAU DE LIQUIDE**
[72] MIKKELSEN, BLAIR, US
[72] HANSEN, MATTHEW MARTIN KENNETH, US
[72] HUANG, JIANMING, US
[71] KEURIG GREEN MOUNTAIN, INC., US
[85] 2023-04-18
[86] 2021-10-26 (PCT/US2021/056645)
[87] (WO2022/093816)
[30] US (63/106,585) 2020-10-28

[21] **3,198,914**
[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01) H04N 21/4728 (2011.01) H04N 7/01 (2006.01) H04N 7/14 (2006.01)**
[25] EN
[54] **GAZE-TRACKING-BASED IMAGE DOWNSCALING FOR MULTI-PARTY VIDEO COMMUNICATION**
[54] **MISE A L'ECHELLE INFERIEURE D'IMAGE BASEE SUR LE SUIVI DU REGARD POUR UNE COMMUNICATION VIDEO A PLUSIEURS PARTIES**
[72] WALTERS, AUSTIN, US
[72] TRUONG, ANH, US
[72] PHAM, VINCENT, US
[72] KWAK, ERNEST, US
[72] RAFFERTY, GALEN, US
[72] GOODSITT, JEREMY, US
[72] HUA, ALVIN, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2023-04-18
[86] 2021-10-29 (PCT/US2021/057401)
[87] (WO2022/094311)
[30] US (17/086,265) 2020-10-30

[21] **3,198,915**
[13] A1

[51] **Int.Cl. B65G 43/00 (2006.01) B62B 3/00 (2006.01) B65G 65/00 (2006.01) B65G 1/04 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES FOR HANDLING AND EXAMINING TRANSPORT RACKS FOR DELIVERING GOODS**
[54] **PROCEDE ET DISPOSITIFS DE MANIPULATION ET DE VERIFICATION DE CHASSIS DE TRANSPORT POUR L'EXPEDITION DE MARCHANDISES**
[72] HOLZNER, STEFAN, DE
[72] FORSTER, FLORIAN, DE
[72] SCHLOSSER, THOMAS, DE
[71] TGW LOGISTICS GROUP GMBH, AT
[85] 2023-04-18
[86] 2021-10-22 (PCT/AT2021/060395)
[87] (WO2022/082249)
[30] AT (A50919/2020) 2020-10-23

[21] **3,198,917**
[13] A1

[51] **Int.Cl. H04W 48/10 (2009.01) H04W 48/20 (2009.01)**
[25] EN
[54] **MOBILE NETWORK SELECTION METHOD AND APPARATUS, MOBILE USER EQUIPMENT, AND STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL DE SELECTION DE RESEAU MOBILE, EQUIPEMENT UTILISATEUR MOBILE ET SUPPORT DE STOCKAGE**
[72] CHEN, XU, CN
[72] JIANG, YI, CN
[71] CHINA MOBILE COMMUNICATION CO., LTD RESEARCH INSTITUTE, CN
[71] CHINA MOBILE COMMUNICATIONS GROUP CO., LTD., CN
[85] 2023-04-18
[86] 2021-11-05 (PCT/CN2021/129026)
[87] (WO2022/095967)
[30] CN (202011228741.7) 2020-11-06

[21] **3,198,918**
[13] A1

[51] **Int.Cl. A61K 36/886 (2006.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **ALOE EXTRACTS FOR MICROBIAL NEUTRALISATION**
[54] **EXTRAITS D'ALOEES POUR LA NEUTRALISATION MICROBIENNE**
[72] KOUMANS, FLORIS, NL
[72] KWAKMAN, PAUL, NL
[71] 2QR RESEARCH B.V., NL
[85] 2023-04-18
[86] 2021-10-21 (PCT/EP2021/079228)
[87] (WO2022/084455)
[30] EP (20202957.5) 2020-10-21

[21] **3,198,920**
[13] A1

[51] **Int.Cl. B32B 5/18 (2006.01)**
[25] EN
[54] **MULTILAYER SHEET COMPRISING A FOAMED LAYER SUITABLE FOR FOOD PACKAGING**
[54] **FEUILLE MULTICOUCHE COMPRENANT UNE COUCHE EXPANSEE APPROPRIEE POUR L'EMBALLAGE D'ALIMENTS**
[72] TYNYS, ANTTI, AT
[72] LIN, YI AN, TW
[71] BOREALIS AG, AT
[85] 2023-04-18
[86] 2021-11-02 (PCT/EP2021/080341)
[87] (WO2022/096436)
[30] EP (20205425.0) 2020-11-03

[21] **3,198,923**
[13] A1

[51] **Int.Cl. G07F 11/54 (2006.01) G07F 9/00 (2006.01)**
[25] EN
[54] **SELF SERVICE KIOSK**
[54] **KIOSQUE EN LIBRE-SERVICE**
[72] GRANGER, DANIEL HARRY, CA
[72] GOWMAN, MICHAEL RICHARD, CA
[72] GRANGER, TAYLOR DANIEL, CA
[72] COSTA, ROBERT FRANK, CA
[71] SLEGGERS ENGINEERED PRODUCTS, INC., CA
[85] 2023-04-18
[86] 2021-10-21 (PCT/CA2021/051481)
[87] (WO2022/082309)
[30] US (63/094,569) 2020-10-21
[30] US (63/119,214) 2020-11-30
[30] US (63/242,822) 2021-09-10

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[21] **3,198,924**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **PHAGE-DERIVED PARTICLES FOR IN SITU DELIVERY OF DNA PAYLOAD INTO C. ACNES POPULATION**
[54] **PARTICULES DERIVEES DE PHAGES POUR L'ADMINISTRATION IN SITU DE CHARGE UTILE D'ADN DANS UNE POPULATION DE C. ACNES**
[72] LEVEAU, AYMERIC, FR
[72] CANADAS BLASCO, INES, FR
[72] MATHIEU, AURELIE, FR
[72] DECRULLE, ANTOINE, FR
[71] ELIGO BIOSCIENCE, FR
[85] 2023-04-18
[86] 2021-11-04 (PCT/EP2021/080667)
[87] (WO2022/096590)
[30] US (63/109,832) 2020-11-04
[30] US (63/109,834) 2020-11-04
[30] US (63/145,967) 2021-02-04
[30] US (63/145,969) 2021-02-04

[21] **3,198,928**
[13] A1

[51] **Int.Cl. A61K 31/415 (2006.01) A61K 31/4152 (2006.01) A61K 31/4155 (2006.01) A61K 31/426 (2006.01) A61K 31/427 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY USING BAX ACTIVATOR AGENT**
[54] **POLYTHERAPIE UTILISANT UN AGENT ACTIVEUR DE BAX**
[72] GAVATHIOTIS, EVRIPIDIS, US
[71] ALBERT EINSTEIN COLLEGE OF MEDICINE, US
[85] 2023-03-15
[86] 2021-09-17 (PCT/US2021/050965)
[87] (WO2022/061174)
[30] US (63/079,720) 2020-09-17
[30] US (63/109,097) 2020-11-03

[21] **3,198,930**
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/06 (2006.01) A61K 31/165 (2006.01) A61K 45/06 (2006.01) A61K 47/10 (2017.01) A61K 47/30 (2006.01) A61K 47/34 (2017.01) A61P 27/16 (2006.01)**
[25] EN
[54] **NON-AQUEOUS GEL COMPOSITION**
[54] **COMPOSITION DE GEL NON AQUEUX**
[72] BOGERSHAUSEN, ANSGAR, DE
[72] LIEBICH, LENA, DE
[72] RISCHER, MATTHIAS, DE
[71] ACOUSIA THERAPEUTICS GMBH, DE
[85] 2023-04-18
[86] 2021-11-18 (PCT/EP2021/082108)
[87] (WO2022/106523)
[30] EP (20208665.8) 2020-11-19

[21] **3,198,932**
[13] A1

[51] **Int.Cl. A61B 8/00 (2006.01) A61N 7/00 (2006.01)**
[25] EN
[54] **LESION LOCATING METHOD AND LESION LOCATING SYSTEM**
[54] **METHODE ET SYSTEME DE LOCALISATION DES LESIONS**
[72] SUN, MINYI, CN
[72] HU, HONGBING, CN
[72] ZOU, YING, CN
[72] FU, BING, CN
[72] WU, XIAOBING, CN
[72] HU, LIANG, CN
[72] ZHANG, CAI, CN
[72] HUANG, HAORAN, CN
[71] CHONGQING HAIFU MEDICAL TECHNOLOGY CO., LTD., CN
[85] 2023-04-18
[86] 2021-08-30 (PCT/CN2021/115360)
[87] (WO2022/134647)
[30] CN (202011551545.3) 2020-12-24

[21] **3,198,933**
[13] A1

[51] **Int.Cl. A61B 17/02 (2006.01) A61B 17/00 (2006.01) A61B 17/29 (2006.01)**
[25] EN
[54] **DEVICE FOR CONVERTING A SURGICAL INSTRUMENT INTO A SPREADER**
[54] **DISPOSITIF DE CONVERSION D'UN INSTRUMENT CHIRURGICAL EN UN ECARTEUR**
[72] MOLINA ROMERO, FRANCESC XAVIER, ES
[72] MORON CANIS, JOSE MIGUEL, ES
[72] BROGI, LEANDRO AUGUSTO, IT
[72] ROMO PEREZ, EMILIO, ES
[71] SERVEI DE SALUT DE LES ILLES BALEARS - IBSALUT, ES
[71] FUNDACIO INSTITUT D'INVESTIGACIO SANITARIA ILLES BALEARS -IDISBA, ES
[85] 2023-04-18
[86] 2022-02-07 (PCT/EP2022/052851)
[87] (WO2022/167644)
[30] ES (P202130093) 2021-02-08

[21] **3,198,939**
[13] A1

[51] **Int.Cl. C10G 29/04 (2006.01) C10G 45/02 (2006.01) C10G 69/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING FUEL OIL AND USE THEREOF, AND FUEL OIL AND USE THEREOF**
[54] **PROCEDE ET SYSTEME DE PRODUCTION DE MAZOUT ET SON UTILISATION, ET MAZOUT ET SON UTILISATION**
[72] PENG, CHONG, CN
[72] FANG, XIANGCHEN, CN
[72] QIAO, KAI, CN
[72] WANG, GANG, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2023-04-18
[86] 2021-10-19 (PCT/CN2021/124716)
[87] (WO2022/083587)
[30] CN (20201115313.3) 2020-10-19

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[21] **3,198,942**
[13] A1

[51] **Int.Cl. B01D 53/22 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **CONTINUOUS GAS SEPARATION SYSTEM COMBINING HYDRATE-BASED PROCESS AND REVERSE OSMOSIS PROCESS AND DISTURBANCE DEVICE**
[54] **SYSTEME DE SEPARATION DE GAZ CONTINU COMBINANT UN PROCESSUS A BASE D'HYDRATE ET UN PROCESSUS D'OSMOSE INVERSE ET DISPOSITIF DE PERTURBATION**
[72] XUE, QIAN, CN
[72] LI, ZUNZHAO, CN
[72] WANG, XIAOLIN, CN
[72] LIU, MINGRUI, CN
[72] ZHAO, WEI, CN
[72] LI, SHIHAN, CN
[72] SUN, XIAOZHE, CN
[72] WANG, WEI, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2023-04-18
[86] 2021-10-19 (PCT/CN2021/124722)
[87] (WO2022/083588)
[30] CN (202011121986.X) 2020-10-20

[21] **3,198,947**
[13] A1

[51] **Int.Cl. G06Q 10/08 (2023.01) G06Q 10/00 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SCALABLE AUTOMATED MAINTENANCE OPTIMISATION**
[54] **SYSTEME ET PROCEDE D'OPTIMISATION EVOLUTIVE DE MAINTENANCE AUTOMATISEE**
[72] MICHAEL, SAM, AU
[72] DIBSDALE, CHARLES, GB
[71] OX MOUNTAIN LIMITED, GB
[85] 2023-04-18
[86] 2021-11-03 (PCT/IB2021/060175)
[87] (WO2022/097039)
[30] US (63/110,428) 2020-11-06
[30] US (17/165,045) 2021-02-02
[30] US (17/484,022) 2021-09-24
[30] US (63/255,546) 2021-10-14

[21] **3,198,951**
[13] A1

[51] **Int.Cl. B62D 25/20 (2006.01)**
[25] EN
[54] **REAR UNDERFLOOR STRUCTURE FOR A MOTOR VEHICLE**
[54] **STRUCTURE DE SOUS-PLANCHER ARRIERE POUR VEHICULE AUTOMOBILE**
[72] HASENPOUTH, DAN, FR
[72] MORIAU, OLIVIER, FR
[71] ARCELORMITTAL, LU
[85] 2023-04-18
[86] 2021-11-04 (PCT/IB2021/060208)
[87] (WO2022/097058)
[30] IB (PCT/IB2020/060465) 2020-11-06

[21] **3,198,954**
[13] A1

[51] **Int.Cl. B01J 29/40 (2006.01) B01J 29/48 (2006.01) B01J 35/10 (2006.01) C07C 1/04 (2006.01) C07C 9/02 (2006.01) C07C 9/04 (2006.01) C07C 15/02 (2006.01)**
[25] EN
[54] **CATALYST INCLUDING MOLECULAR SIEVE HAVING TOPOLOGICAL PORE STRUCTURE, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **CATALYSEUR COMPRENANT UN TAMIS MOLECULAIRE AYANT UNE STRUCTURE DE PORE TOPOLOGIQUE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] LIU, CHANG, CN
[72] WANG, YANGDONG, CN
[72] XIE, ZAIKU, CN
[72] LIU, SU, CN
[72] ZHOU, HAIBO, CN
[72] SU, JUNJIE, CN
[72] JIAO, WENQIAN, CN
[72] ZHANG, LIN, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
[85] 2023-04-19
[86] 2021-10-19 (PCT/CN2021/124556)
[87] (WO2022/083564)
[30] CN (202011126552.9) 2020-10-20

[21] **3,198,956**
[13] A1

[51] **Int.Cl. C07H 21/04 (2006.01) A61K 31/7084 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL CYCLIC DINUCLEOTIDE AND USE THEREOF**
[54] **DINUCLEOTIDE CYCLIQUE MULTIFONCTIONNEL ET SON UTILISATION**
[72] ZHANG, TONY YANTAO, US
[72] QU, LI, CN
[72] LOU, LIANG, CN
[72] ZHENG, PUJI, CN
[72] LV, FEI, CN
[71] TYLIGAND BIOSCIENCE (SHANGHAI) LIMITED, CN
[85] 2023-04-19
[86] 2021-10-19 (PCT/CN2021/124704)
[87] (WO2022/083584)
[30] CN (202011124067.8) 2020-10-20
[30] CN (202111201201.4) 2021-10-15

[21] **3,198,959**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01) H04W 72/00 (2023.01)**
[25] EN
[54] **CHANNEL ACCESS MECHANISMS IN MILLIMETER WAVE UNLICENSED BANDS**
[54] **MECANISMES D'ACCES DE CANAL DANS DES BANDES SANS LICENCE EN ONDES MILLIMETRIQUES**
[72] SALEM, MOHAMED ADEL, CA
[72] ZARIFI, KEYVAN, CA
[71] HUAWAI TECHNOLOGIES CO., LTD., CN
[85] 2023-04-19
[86] 2021-10-20 (PCT/CN2021/125050)
[87] (WO2022/083650)
[30] US (63/094,136) 2020-10-20
[30] US (63/250,686) 2021-09-30
[30] US (17/504,200) 2021-10-18

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[21] **3,198,960**
[13] A1

[51] **Int.Cl. E21B 34/08 (2006.01) E21B 43/08 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **FLUID FLOW CONTROL DEVICES AND DOWNHOLE FLOATS**

[54] **DISPOSITIFS DE REGULATION D'ECOULEMENT DE FLUIDE ET FLOTTEURS DE FOND DE TROU**

[72] MCCHESENEY, RYAN WESLEY, US
[72] GRECI, STEPHEN MICHAEL, US
[72] ORNELAZ, RICHARD DECENA, US
[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-05-15
[86] 2020-12-23 (PCT/US2020/066863)
[87] (WO2022/139834)
[30] US (17/130,859) 2020-12-22

[21] **3,198,962**
[13] A1

[51] **Int.Cl. A61F 2/95 (2013.01) A61F 2/07 (2013.01) A61F 2/962 (2013.01) A61F 2/06 (2013.01)**

[25] EN

[54] **SYSTEM FOR DEPLOYING AN IMPLANT**

[54] **SYSTEME DE DEPLOIEMENT D'IMPLANT**

[72] GIEBMEYER, CARSTEN, DE
[72] MAIR, JUTTA, DE
[72] DORN, JURGEN, DE
[71] ANGIOMED GMBH & CO. MEDIZINTECHNIK KG, DE

[85] 2023-04-19
[86] 2020-10-19 (PCT/EP2020/079338)
[87] (WO2022/083843)

[21] **3,198,964**
[13] A1

[51] **Int.Cl. G21C 17/104 (2006.01) G21C 1/02 (2006.01)**

[25] EN

[54] **RADIOISOTOPE ACTIVITY SURVEILLANCE APPARATUS, SYSTEM, AND METHOD**

[54] **APPAREIL, SYSTEME ET PROCEDE DE SURVEILLANCE D'ACTIVITE DE RADIO-ISOTOPE**

[72] HEIBEL, MICHAEL D., US
[72] FETTERMAN, ROBERT J., US
[72] PRIBLE, MICHAEL C., US
[72] CHEN, JIANWEI, US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US

[85] 2023-05-15
[86] 2021-11-15 (PCT/US2021/072404)
[87] (WO2022/104382)
[30] US (17/099,139) 2020-11-16

[21] **3,198,965**
[13] A1

[51] **Int.Cl. A23L 5/43 (2016.01) A23L 13/40 (2023.01) A23L 13/60 (2016.01) A23B 4/20 (2006.01) A23J 3/22 (2006.01) A23L 3/3472 (2006.01)**

[25] EN

[54] **COLOURING COMPOSITION FOR FOOD PRODUCTS**

[54] **COMPOSITION COLORANTE POUR PRODUITS ALIMENTAIRES**

[72] LAURENCON, LISE, FR
[72] BIRTIC, SIMONA, FR
[72] HEUDRE, MELANIE MARIE-PAULE PATRICIA, FR
[71] GIVAUDAN SA, CH

[85] 2023-04-19
[86] 2021-10-22 (PCT/EP2021/079409)
[87] (WO2022/090092)
[30] GB (2016984.3) 2020-10-26

[21] **3,198,967**
[13] A1

[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/16 (2006.01) C08G 18/20 (2006.01) C08G 18/22 (2006.01) C08G 18/30 (2006.01) C08G 18/32 (2006.01) C08G 18/48 (2006.01) C08G 18/66 (2006.01) C08G 18/76 (2006.01) C08J 9/00 (2006.01) C08J 9/12 (2006.01) C08J 11/04 (2006.01)**

[25] EN

[54] **REACTIVE FORMULATIONS FOR FORMING A STRONG POLYURETHANE-POLYUREA COMPRISING WATER BLOWN FOAM**

[54] **FORMULATIONS REACTIVES POUR FORMER UNE FORTE POLYURETHANE-POLYUREE COMPRENANT DE LA MOUSSE SOUFFLEE A L'EAU**

[72] VANROY, BRAM, BE
[72] VERBEKE, HUGO, BE
[72] JANSSENS, BERT, BE
[72] VAN LOOY, KEVIN, BE
[71] HUNTSMAN INTERNATIONAL LLC, US

[85] 2023-04-19
[86] 2021-11-04 (PCT/EP2021/080677)
[87] (WO2022/096598)
[30] EP (20205808.7) 2020-11-05

[21] **3,198,968**
[13] A1

[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/78 (2006.01) B01D 53/96 (2006.01)**

[25] EN

[54] **CO2 CAPTURE PROCESS WITH ELECTROLYTIC REGENERATION**

[54] **PROCEDE DE CAPTURE DE CO2 AVEC REGENERATION ELECTROLYTIQUE**

[72] JAKOBSEN, JAN STOUGAARD, DK
[71] ESTECH A/S, DK

[85] 2023-04-19
[86] 2021-11-05 (PCT/EP2021/080763)
[87] (WO2022/096644)
[30] EP (20206242.8) 2020-11-06

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[21] **3,198,970**
[13] A1

[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/135 (2006.01) A61K 47/34 (2017.01) A61P 29/00 (2006.01)**

[25] EN
[54] **ORAL THIN FILM**
[54] **FILM BUCCAL MINCE**
[72] MULLER, MARKUS, DE
[72] FICKER, MARIO, DE
[72] LINN, MICHAEL, DE
[72] HAMMES, FLORIAN, DE
[71] LTS LOHMANN THERAPIE-SYSTEM AG, DE

[85] 2023-04-19
[86] 2021-11-05 (PCT/EP2021/080825)
[87] (WO2022/096676)
[30] DE (10 2020 129 394.1) 2020-11-09
[30] DE (10 2021 120 937.4) 2021-08-11

[21] **3,198,971**
[13] A1

[25] EN
[54] **MINI-ORGAN INSERT FOR IN VITRO CO-CULTURE STUDIES**
[54] **INSERT POUR MINI-ORGANES DESTINE A DES ETUDES DE CO-CULTURE IN VITRO**
[72] SORAGNI, ALICE, US
[72] TEBON, PEYTON JOHN, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2023-05-15
[86] 2021-12-07 (PCT/US2021/062256)
[87] (WO2022/125580)
[30] US (63/122,275) 2020-12-07

[21] **3,198,975**
[13] A1

[51] **Int.Cl. G16B 20/00 (2019.01)**

[25] EN
[54] **DYNAMICALLY PRIORITIZING, ORGANIZING AND DISPLAYING CELLS AND TISSUE IN ORDER OF THEIR DIAGNOSTIC SIGNIFICANCE**
[54] **HIERARCHISATION, ORGANISATION ET AFFICHAGE DYNAMIQUES DE CELLULES ET DE TISSUS DANS LEUR ORDRE D'IMPORTANCE DIAGNOSTIQUE**
[72] TJON, ROBERT, US
[71] CDX MEDICAL IP, INC., US

[85] 2023-05-15
[86] 2022-02-08 (PCT/US2022/015588)
[87] (WO2022/170235)
[30] US (63/146,956) 2021-02-08

[21] **3,198,981**
[13] A1

[51] **Int.Cl. G06F 8/20 (2018.01) G06Q 40/08 (2012.01) G06F 8/30 (2018.01) G06F 8/70 (2018.01)**

[25] EN
[54] **CONSTRUCTING EXECUTABLE PROGRAM CODE BASED ON SEQUENCE CODES**
[54] **CONSTRUCTION DE CODE DE PROGRAMME EXECUTABLE SUR LA BASE DE CODES DE SEQUENCE**
[72] CHERN, JIH-SHIANG, US
[72] YAN, BO, US
[71] EQUIFAX INC., US

[85] 2023-05-15
[86] 2021-11-22 (PCT/US2021/072535)
[87] (WO2022/109613)
[30] US (63/117,059) 2020-11-23

[21] **3,198,987**
[13] A1

[25] EN
[54] **METHOD AND SYSTEM FOR ANALYZING GEO-SPATIAL DATA TO DERIVE SPATIAL OBJECT REPRESENTATIONS**
[54] **PROCEDE ET SYSTEME DESTINES A ANALYSER DES DONNEES GEOSPATIALES POUR DEDUIRE DES REPRESENTATIONS D'OBJETS SPATIAUX**
[72] PRZYWARA, SVEN, DE
[72] SEIDEL, DANIEL, DE
[72] SAMU, DAVID, DE
[71] LIVEEO GMBH, DE

[85] 2023-05-15
[86] 2020-11-16 (PCT/EP2020/082294)
[87] (WO2022/100871)

[21] **3,198,990**
[13] A1

[51] **Int.Cl. E04B 7/22 (2006.01) E04D 13/17 (2006.01)**

[25] EN
[54] **VENTED INSULATED ROOF SHEATHING**
[54] **REVETEMENT DE TOIT ISOLE A EVENT**
[72] YELLE, JEFF, US
[71] LOUISIANA-PACIFIC CORPORATION, US

[85] 2023-05-15
[86] 2021-11-24 (PCT/US2021/060777)
[87] (WO2022/115575)
[30] US (63/117,513) 2020-11-24

[21] **3,198,991**
[13] A1

[25] EN
[54] **RADIOLABELED LIPOSOMES AND METHODS OF USE THEREOF**
[54] **LIPOSOMES RADIOMARQUES ET LEURS METHODES D'UTILISATION**
[72] STEIN, GREGORY D., US
[72] HEDRICK, MARC, US
[72] RICE, CHERYL, US
[72] BRENNER, ANDREW, US
[72] BAO, ANDE, US
[72] PHILLIPS, WILLIAM, US
[71] PLUS THERAPEUTICS, INC., US
[71] NANOTX, CORP., US

[85] 2023-05-15
[86] 2021-11-18 (PCT/US2021/059969)
[87] (WO2022/109188)
[30] US (63/115,519) 2020-11-18

[21] **3,199,026**
[13] A1

[25] EN
[54] **METHOD AND SYSTEM FOR ROBUST WAIT TIME ESTIMATION IN A MULTI-SKILLED CONTACT CENTER WITH ABANDONMENT**
[54] **PROCEDE ET SYSTEME D'ESTIMATION ROBUSTE DE TEMPS D'ATTENTE DANS UN CENTRE DE CONTACT MULTI-COMPETANCES AVEC ABANDON**
[72] TER, WEI XUN, US
[72] ROSOY, GEIR, US
[72] HAMEED, MOHAMED SHAHUL, IN
[72] WICAKSONO, BAYU, US
[72] HUMPHREYS, TRAVIS, US
[72] ROBINSON, BRIAN, US
[71] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US

[85] 2023-05-15
[86] 2021-12-08 (PCT/US2021/062346)
[87] (WO2022/125623)
[30] US (63/122,905) 2020-12-08

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[21] **3,199,032**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **CANCER DIAGNOSIS AND CLASSIFICATION BY NON-HUMAN METAGENOMIC PATHWAY ANALYSIS**
[54] **DIAGNOSTIC ET CLASSIFICATION DE CANCER PAR ANALYSE DE VOIE METAGENOMIQUE NON HUMAINE**
[72] WANDRO, STEPHEN, US
[72] ADAMS, EDDIE, US
[72] MILLER-MONTGOMERY, SANDRINE, US
[71] MICRONOMA, INC., US
[85] 2023-05-15
[86] 2021-11-16 (PCT/US2021/059559)
[87] (WO2022/104278)
[30] US (63/114,447) 2020-11-16

[21] **3,199,036**
[13] A1

[25] EN
[54] **ISOLATED DOUBLE STRANDED DNA POLYNUCLEOTIDE**
[54] **POLYNUCLEOTIDE D'ADN DOUBLE BRIN ISOLE**
[72] MAENNER, SYLVAIN, FR
[72] BEHM-ANSMANT, ISABELLE, FR
[72] ALFEGHALY, CHARBEL, FR
[71] UNIVERSITE DE LORRAINE, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2023-05-15
[86] 2021-11-19 (PCT/EP2021/082311)
[87] (WO2022/106623)
[30] EP (20306419.1) 2020-11-20

[21] **3,199,042**
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF (9S)-N-[3-(6-METHYLPYRIMIDIN-4-YL)-3-AZABICYCLO[3.2.1]OCTAN-8-YL]-9-(2,3,4-TRIFLUOROPHENYL)-6,7,8,9-TETRAHYDRO-5H-[1,2,4]TRIAZOLO[1,5-A]AZEPIN-2-AMINE AND ITS SOLID FORM**
[54] **PROCEDE DE PREPARATION DE (9S)-N-[3-(6-METHYLPYRIMIDIN-4-YL)-3-AZABICYCLO[3.2.1]OCTAN-8-YL]-9-(2,3,4-TRIFLUOROPHENYL)-6,7,8,9-TETRAHYDRO-5H-[1,2,4]TRIAZOLO[1,5-A]AZEPIN-2-AMINE ET SA FORME SOLIDE**
[72] CHEN, WEICHUN, CN
[72] ZHANG, GUOCAL, CN
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2023-04-19
[86] 2021-12-09 (PCT/EP2021/084887)
[87] (WO2022/122864)
[30] CN (PCT/CN2020/135740) 2020-12-11

[21] **3,199,046**
[13] A1

[51] **Int.Cl. A61M 5/172 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR PAUSING AN INFUSION PUMP DURING A DISPENSE STROKE TO IMPROVE OCCLUSION SENSING**
[54] **APPAREILS ET PROCEDES DE MISE EN PAUSE D'UNE POMPE A PERFUSION PENDANT UNE COURSE DE DISTRIBUTION POUR AMELIORER LA DETECTION D'OCCLUSIONS**
[72] STEWART, SCOTT, US
[72] COREY, SCOTT, US
[72] LI, KUN, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2023-05-15
[86] 2021-12-09 (PCT/US2021/062546)
[87] (WO2022/132554)
[30] US (63/125,497) 2020-12-15

[21] **3,199,074**
[13] A1

[51] **Int.Cl. A61P 35/00 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **COMPOUNDS AND METHODS FOR THE TARGETED DEGRADATION OF ANDROGEN RECEPTOR PROTEIN**
[54] **COMPOSES ET PROCEDES POUR LA DEGRADATION CIBLEE DE PROTEINE DU RECEPTEUR DES ANDROGENES**
[72] BERLIN, MICHAEL, US
[72] CREW, ANDREW, US
[72] DONG, HANQING, US
[72] HORNBERGER, KEITH, US
[72] SNYDER, LAWRENCE, US
[72] WANG, JING, US
[72] ZIMMERMANN, KURT, US
[71] ARVINAS OPERATIONS, INC., US
[85] 2023-04-20
[86] 2021-10-20 (PCT/US2021/055836)
[87] (WO2022/087125)
[30] US (63/094,554) 2020-10-21

[21] **3,199,075**
[13] A1

[51] **Int.Cl. G01N 21/27 (2006.01) G01N 21/31 (2006.01) G01N 21/62 (2006.01) G01N 21/63 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **INTEGRATED CIRCUIT WITH SEQUENTIALLY-COUPLED CHARGE STORAGE AND ASSOCIATED TECHNIQUES**
[54] **CIRCUIT INTEGRE AVEC STOCKAGE DE CHARGE COUPLE DE MANIERE SEQUENTIELLE ET TECHNIQUES ASSOCIEES**
[72] WEBSTER, ERIC, A., G., US
[72] REARICK, TODD, US
[72] THURSTON, THOMAS RAYMOND, US
[71] QUANTUM-SI INCORPORATED, US
[85] 2023-04-20
[86] 2021-10-21 (PCT/US2021/056013)
[87] (WO2022/087240)
[30] US (63/104,393) 2020-10-22

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[21] **3,199,076**
[13] A1

[51] **Int.Cl. G16H 10/40 (2018.01)**
[25] EN
[54] **RANDOMIZATION HONORING METHODS TO ASSESS THE SIGNIFICANCE OF INTERVENTIONS ON OUTCOMES IN DISORDERS**
[54] **PROCEDES DE RESPECT DE RANDOMISATION POUR EVALUER LA SIGNIFICATION D'INTERVENTIONS SUR DES RESULTATS DANS DES TROUBLES**
[72] LEDERMAN, SETH, US
[72] STARK, PHILIP B., US
[72] VAUGHN, BEN, US
[71] TONIX PHARMACEUTICALS HOLDING CORP., US
[71] TONIX PHARMACEUTICALS INC., US
[85] 2023-04-20
[86] 2021-10-22 (PCT/US2021/056213)
[87] (WO2022/087383)
[30] US (63/104,472) 2020-10-22

[21] **3,199,077**
[13] A1

[51] **Int.Cl. A47J 37/06 (2006.01) F24C 15/00 (2006.01)**
[25] EN
[54] **SMOKELESS GRILL AND AIR FRYER**
[54] **GRIL SANS FUMEE ET FRITEUSE A AIR CHAUD**
[72] ITZKOWITZ, BINYUMEN, US
[72] FRIEDMAN, MEILECH, US
[72] DEUTSCH, JOSEPH, US
[72] WERTZBERGER, KALMAN, US
[72] DE LUCA, ROBYN, US
[72] HUANG, WENHUI, US
[72] BIEGELEISEN, NAPHTALI H., US
[71] THE STEELSTONE GROUP LLC, US
[85] 2023-04-20
[86] 2021-10-22 (PCT/US2021/056223)
[87] (WO2022/087391)
[30] US (63/104,854) 2020-10-23
[30] US (29/806,447) 2021-09-02

[21] **3,199,079**
[13] A1

[51] **Int.Cl. C12N 15/09 (2006.01) A61P 35/00 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **SYNTHETIC INTRONS FOR TARGETED GENE EXPRESSION**
[54] **INTRONS SYNTHETIQUES POUR UNE EXPRESSION GENIQUE CIBLEE**
[72] BRADLEY, ROBERT K., US
[72] ABDEL-WAHAB, OMAR, US
[72] NORTH, KHRYSTYNA, US
[72] BENBARCHE, SALIMA, US
[72] LIU, BO, US
[71] FRED HUTCHINSON CANCER CENTER, US
[71] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2023-04-20
[86] 2021-10-22 (PCT/US2021/056273)
[87] (WO2022/087427)
[30] US (63/105,143) 2020-10-23
[30] US (63/160,405) 2021-03-12

[21] **3,199,080**
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **METHODS AND KITS FOR ENRICHING FOR POLYNUCLEOTIDES**
[54] **PROCEDES ET KITS POUR L'ENRICHISSEMENT DE POLYNUCLEOTIDES**
[72] SHISHKIN, ALEXANDER, US
[72] SHEN, KYLIE, AN-YI, US
[72] MANAKOU, SIARHEI, US
[71] ECLIPSE BIOINNOVATIONS, INC., US
[85] 2023-04-20
[86] 2021-10-25 (PCT/US2021/056471)
[87] (WO2022/093701)
[30] US (63/105,741) 2020-10-26

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[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01) A47J 31/56 (2006.01)**
[25] EN
[54] **DUAL PURPOSE TEMPERATURE AND CONDUCTIVE PROBE FOR BEVERAGE MACHINE**
[54] **SONDE DE TEMPERATURE ET CONDUCTRICE A DOUBLE USAGE POUR MACHINE A BOISSON**
[72] MIKKELSEN, BLAIR, US
[72] HANSEN, MATTHEW MARTIN KENNETH, US
[72] HUANG, JIANMING, US
[71] KEURIG GREEN MOUNTAIN, INC., US
[85] 2023-04-20
[86] 2021-10-26 (PCT/US2021/056654)
[87] (WO2022/093823)
[30] US (63/106,801) 2020-10-28

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[13] A1

[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/5395 (2006.01) A61K 31/541 (2006.01) A61P 35/00 (2006.01) C07D 487/10 (2006.01) C07D 491/04 (2006.01) C07D 513/04 (2006.01)**
[25] EN
[54] **HETEROCYCLIC SPIRO COMPOUNDS AND METHODS OF USE**
[54] **COMPOSES SPIRO HETEROCYCLIQUES ET PROCEDES D'UTILISATION**
[72] LANMAN, BRIAN ALAN, US
[72] BANERJEE, ABHISEK, US
[72] CHU-MOYER, MARGARET, US
[72] DAI, DONGCHENG, US
[72] KALLER, MATTHEW R., US
[72] LOPEZ, PATRICIA, US
[72] MA, VU VAN, US
[72] MANONI, FRANCESCO, US
[72] MEDINA, JOSE M., US
[72] PICKRELL, ALEXANDER J., US
[72] TAMAYO, NURIA A., US
[72] ZHU, KAI, US
[71] AMGEN INC., US
[85] 2023-04-20
[86] 2021-10-26 (PCT/US2021/056702)
[87] (WO2022/093856)
[30] CN (PCT/CN2020/123913) 2020-10-27

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[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C07K 14/65 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **OVEREXPRESSION OF INSULIN-LIKE GROWTH FACTOR RECEPTOR MUTANTS TO MODULATE IGF SUPPLEMENTATION**
[54] **SUREXPRESSON DE MUTANTS DU RECEPTEUR DU FACTEUR DE CROISSANCE DE TYPE INSULINE POUR MODULER LA SUPPLEMENTATION EN IGF**
[72] DARIS, KRISTINE MARIE, US
[72] LAY, FIDES DWINAN, US
[71] AMGEN INC., US
[85] 2023-04-20
[86] 2021-11-01 (PCT/US2021/057606)
[87] (WO2022/094418)

[21] **3,199,084**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/962 (2013.01)**
[25] EN
[54] **CATHETERS FOR IMPLANTS AND MEDICAL PROCEDURES AND METHODS OF USE THEREOF**
[54] **CATHETERS POUR IMPLANTS ET PROCEDURES MEDICALES ET LEURS METHODES D'UTILISATION**
[72] REED, KURT KELLY, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2023-04-20
[86] 2021-11-03 (PCT/US2021/057930)
[87] (WO2022/098781)
[30] US (63/109,461) 2020-11-04

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[13] A1

[51] **Int.Cl. G06F 3/01 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS OF EXTENDED REALITY ENVIRONMENT INTERACTION BASED ON EYE MOTIONS**
[54] **PROCEDES ET SYSTEMES D'INTERACTION D'ENVIRONNEMENT DE REALITE ETENDUE SUR LA BASE DE MOUVEMENTS OCULAIRES**
[72] AHER, ANKUR ANIL, IN
[72] SEN, SUSANTO, IN
[72] BALAJI, R, IN
[72] PULIKUNTA, SAI DURGA VENKAT REDDY, IN
[72] ROBERT JOSE, JEFFRY COPPS, IN
[72] T V, ARUN KUMAR, IN
[72] SAITO, SAKURA, JP
[71] ROVI GUIDES, INC., US
[85] 2023-04-19
[86] 2020-12-29 (PCT/US2020/067335)
[87] (WO2022/086577)
[30] US (17/075,222) 2020-10-20
[30] US (17/075,224) 2020-10-20
[30] US (17/075,227) 2020-10-20
[30] US (17/075,229) 2020-10-20
[30] US (17/075,232) 2020-10-20

[21] **3,199,086**
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) C07K 14/54 (2006.01)**
[25] EN
[54] **ORTHOGONAL IL-21 RECEPTOR/CYTOKINE SYSTEMS SYSTEMES CYTOKINES/RECEPTEURS D'IL-21 ORTHOGONAUX**
[72] KILLEEN, NIGEL, US
[72] BESKE, OREN, US
[72] RATH, BENEDIKT K., US
[72] GOVINDARAJAN, SRIDHAR, US
[71] NEPTUNE BIOSCIENCES LLC, US
[71] KILLEEN, NIGEL, US
[71] BESKE, OREN, US
[71] RATH, BENEDIKT K., US
[71] GOVINDARAJAN, SRIDHAR, US
[85] 2023-04-19
[86] 2021-10-25 (PCT/US2021/056439)
[87] (WO2022/093683)
[30] US (63/105,414) 2020-10-26
[30] US (63/212,547) 2021-06-18

[21] **3,199,087**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHOD OF TREATING BREAST CANCER**
[54] **PROCEDE DE TRAITEMENT DU CANCER DU SEIN**
[72] GUALBERTO, ANTONIO, US
[71] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2023-04-19
[86] 2021-11-05 (PCT/US2021/058185)
[87] (WO2022/098953)
[30] US (63/110,787) 2020-11-06
[30] US (63/110,800) 2020-11-06
[30] US (63/117,678) 2020-11-24
[30] US (63/195,505) 2021-06-01

[21] **3,199,088**
[13] A1

[51] **Int.Cl. A01N 37/18 (2006.01) A61K 38/12 (2006.01) C07K 1/14 (2006.01)**
[25] EN
[54] **RESPIRATORY TREATMENTS TRAITEMENTS RESPIRATOIRES**
[72] FRAMROZE, BOMI, US
[72] CURRIE, CRAWFORD LINDEN ALEXANDER, NO
[71] HOFSETH BIOCARE ASA, NO
[85] 2023-04-19
[86] 2021-11-15 (PCT/US2021/059416)
[87] (WO2022/108883)
[30] US (63/114,976) 2020-11-17
[30] US (63/211,972) 2021-06-17

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[13] A1

[51] **Int.Cl. A61K 31/501 (2006.01) A61K 9/00 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **IMATINIB FORMULATIONS, MANUFACTURE, AND USES THEREOF**
[54] **FORMULATIONS D'IMATINIB, FABRICATION ET UTILISATIONS DE CELLES-CI**
[72] DAKE, BEN, US
[72] NIVEN, RALPH, US
[71] AEROVATE THERAPEUTICS, INC., US
[85] 2023-04-19
[86] 2021-11-23 (PCT/US2021/060526)
[87] (WO2022/109458)
[30] US (63/117,258) 2020-11-23
[30] US (63/150,731) 2021-02-18

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[13] A1

[51] **Int.Cl. C07C 37/14 (2006.01) C07C 39/23 (2006.01)**

[25] EN

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

[54] **PROCEDE DE PREPARATION DE CANNABIDIOL**

[72] PANDYA, URVISH, GB

[72] CATTELL, SAM, GB

[72] MALAGO, CAROLINA, GB

[72] SCHULTZ, KEREN, IL

[72] LERMAN, KETI, IL

[71] AIZIKOVICH, ALEXANDER, IL

[71] CONSORT MEDICAL LIMITED, GB

[85] 2023-04-19

[86] 2021-10-19 (PCT/GB2021/052691)

[87] (WO2022/084662)

[30] GB (2016536.1) 2020-10-19

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[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61K 31/57 (2006.01) A61K 31/573 (2006.01) A61K 47/18 (2017.01)**

[25] EN

[54] **PEG-FREE AQUEOUS SUSPENSIONS FOR PARENTERAL ADMINISTRATION OF A CORTICOSTEROID**

[54] **SUSPENSIONS AQUEUSES SANS PEG POUR L'ADMINISTRATION PARENTERALE D'UN CORTICOSTEROIDE**

[72] SALMAN, OMAR ABDELRAHMAN, US

[72] BERGMAN, JOEL AARON, US

[71] PFIZER INC., US

[85] 2023-04-19

[86] 2021-10-19 (PCT/IB2021/059603)

[87] (WO2022/084842)

[30] US (63/104,143) 2020-10-22

[30] US (63/252,705) 2021-10-06

[21] **3,199,094**
[13] A1

[51] **Int.Cl. A61K 39/09 (2006.01) C08B 37/00 (2006.01) C12P 19/04 (2006.01)**

[25] EN

[54] **METHODS FOR PURIFYING BACTERIAL POLYSACCHARIDES**

[54] **PROCEDES DE PURIFICATION DE POLYSACCHARIDES BACTERIENS**

[72] BARANYI, ELIZABETH, US

[72] CHEN, WEI, US

[72] CHEN, ZECHENG, US

[72] MORAN, JUSTIN KEITH, US

[72] YUAN, YONGHUI, US

[71] PFIZER INC., US

[85] 2023-04-19

[86] 2021-10-19 (PCT/IB2021/059619)

[87] (WO2022/084852)

[30] US (63/104,180) 2020-10-22

[21] **3,199,095**
[13] A1

[51] **Int.Cl. A61P 35/02 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **CD19 BINDING MOLECULES AND USES THEREOF**

[54] **MOLECULES DE LIAISON A CD19 ET UTILISATIONS ASSOCIEES**

[72] CEBE, REGIS, CH

[72] CHELUR, DATTANANDA, US

[72] GRANDA, BRIAN WALTER, US

[72] HONG, CONNIE, US

[72] JANG, SUNYOUNG, US

[72] LU, HAIHUI, US

[72] RAYO, AMY, US

[72] SKEGRO, DARKO, CH

[71] NOVARTIS AG, CH

[85] 2023-04-19

[86] 2021-11-04 (PCT/IB2021/060213)

[87] (WO2022/097060)

[30] US (63/110,490) 2020-11-06

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[30] US (63/114,371) 2020-11-16

[30] US (63/147,501) 2021-02-09

[21] **3,199,096**
[13] A1

[51] **Int.Cl. A01N 25/10 (2006.01) A01N 25/26 (2006.01) A01N 25/34 (2006.01) A01N 59/16 (2006.01) A01N 59/20 (2006.01) A01N 59/26 (2006.01) A61F 13/00 (2006.01) A61K 9/70 (2006.01) A61K 33/30 (2006.01) A61K 33/34 (2006.01) A61K 33/38 (2006.01) A61K 33/42 (2006.01) A61L 31/00 (2006.01) A61L 31/12 (2006.01) C08J 3/22 (2006.01) C08K 3/08 (2006.01) C08K 3/22 (2006.01) C08K 3/32 (2006.01) C08L 91/00 (2006.01) C08L 101/00 (2006.01) D01F 1/10 (2006.01) D06M 11/38 (2006.01) D06M 11/42 (2006.01) D06M 11/83 (2006.01)**

[25] EN

[54] **COLORLESS ANTIMICROBIAL COMPOSITION**

[54] **COMPOSITION ANTIMICROBIENNE INCOLORE**

[72] GABBAY, JEFFREY S., IL

[71] ARGAMAN TECHNOLOGIES LTD., IL

[85] 2023-04-19

[86] 2021-10-19 (PCT/IL2021/051241)

[87] (WO2022/084997)

[30] US (63/094,350) 2020-10-21

[21] **3,199,098**
[13] A1

[51] **Int.Cl. C12Q 1/6816 (2018.01)**

[25] EN

[54] **SIZE-BASED DETECTION AND QUANTIFICATION OF FUNCTIONAL BIO-NANOPARTICLES**

[54] **DETECTION A BASE DE TAILLE ET QUANTIFICATION DE BIO-NANOPARTICULES FONCTIONNELLES**

[72] LEBOWITZ, MICHAEL S., US

[72] GHANBARI, HOSSEIN A., US

[71] ATHANOR BIOSCIENCES, INC., US

[85] 2023-04-20

[86] 2021-10-20 (PCT/US2021/055816)

[87] (WO2022/087112)

[30] US (63/094,455) 2020-10-21

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[21] **3,199,099**
[13] A1

[51] **Int.Cl. F28G 1/12 (2006.01) A61B 1/12 (2006.01) B08B 9/04 (2006.01)**

[25] EN

[54] **VARIABLE PRESSURE CLEANING DEVICE AND METHOD**

[54] **PROCEDE ET DISPOSITIF DE NETTOYAGE A PRESSION VARIABLE**

[72] MILLER, SCOTT, US

[72] CARTER, FRANK, US

[72] GAUGER, CARL, US

[71] GI SCIENTIFIC, LLC, US

[85] 2023-04-20

[86] 2021-10-25 (PCT/US2021/056419)

[87] (WO2022/087518)

[30] US (63/105,072) 2020-10-23

[21] **3,199,227**
[13] A1

[51] **Int.Cl. E02F 3/88 (2006.01) E02F 3/92 (2006.01)**

[25] EN

[54] **SUCTION GENERATION DEVICE**

[54] **DISPOSITIF DE GENERATION D'ASPIRATION**

[72] STORVIK, KJELL, NO

[71] KONTORVEIEN 1 AS, NO

[85] 2023-04-20

[86] 2021-10-15 (PCT/NO2021/050214)

[87] (WO2022/086338)

[30] NO (20201145) 2020-10-22

[21] **3,199,229**
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) E21B 17/18 (2006.01) E21B 43/14 (2006.01) E21B 44/02 (2006.01)**

[25] EN

[54] **GUIDE SUB FOR MULTILATERAL JUNCTION**

[54] **RACCORD DOUBLE FEMELLE DE GUIDAGE POUR JONCTION MULTILATERALE**

[72] GLASER, MARK CHRISTOPHER, US

[72] BARRON, ANGUS MACKAY, GB

[72] FRIPP, MICHAEL LINLEY, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2023-04-21

[86] 2021-03-11 (PCT/US2021/021828)

[87] (WO2022/182370)

[30] US (17/187,394) 2021-02-26

[21] **3,199,230**
[13] A1

[51] **Int.Cl. A61P 3/10 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **ELOVL2 CONSTRUCTS FOR HUMAN GENE THERAPY**

[54] **CONSTRUCTIONS ELOVL2 POUR LA THERAPIE GENIQUE HUMAINE**

[72] CHAVEZ, CHRISTOPHER, US

[72] EMANUELE, MARTIN, US

[72] VETTICADEN, SANTOSH, US

[71] VISGENX, INC., US

[85] 2023-04-21

[86] 2021-10-19 (PCT/US2021/055648)

[87] (WO2022/086990)

[30] US (63/104,169) 2020-10-22

[21] **3,199,231**
[13] A1

[51] **Int.Cl. C01B 33/107 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING IODOSILANES**

[54] **PROCEDE DE PREPARATION D'IODOSILANES**

[72] LANEMAN, SCOTT A., US

[72] DUBE, JONATHAN W., CA

[72] STUBBS, JAMES M., CA

[71] ENTEGRIS, INC., US

[85] 2023-04-21

[86] 2021-10-20 (PCT/US2021/055707)

[87] (WO2022/087036)

[30] US (63/104,910) 2020-10-23

[21] **3,199,232**
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) A61P 35/04 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING A SUBJECT WITH LOCAL INVASIVE BREAST CANCER BASED ON PDGFRB LEVELS**

[54] **METHODES DE TRAITEMENT D'UN SUJET ATTEINT D'UN CANCER DU SEIN INVASIF LOCAL A BASE DE NIVEAUX PDGFRB**

[72] STRELL, CARINA, US

[72] OSTMAN, CARL ARNE, US

[72] STENMARK TULLBERG, AXEL EMANUEL, US

[72] HOLMBERG, ERIK CARL VIKTOR, US

[72] KARLSSON, PER OSWALD, US

[72] MALMSTROM, PER-OLOF, US

[72] FERNO, LARS MARTEN, US

[72] AKSLEN, LARS ANDREAS, NO

[72] BREMER, TROY, M., US

[72] EDELMANN, REIDUNN JETNE, NO

[71] PRELUDE CORPORATION, US

[71] UNIVERSITY OF BERGEN, NO

[85] 2023-04-21

[86] 2021-10-20 (PCT/US2021/055810)

[87] (WO2022/087108)

[30] US (63/094,574) 2020-10-21

[21] **3,199,233**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR MENTAL HEALTH ASSESSMENT**

[54] **SYSTEMES ET PROCEDES D'EVALUATION DE SANTE MENTALE**

[72] OZEN IRMAK, SIMAL, US

[72] IRMAK, UTKU, US

[71] TIBI HEALTH, INC., US

[85] 2023-04-21

[86] 2021-10-20 (PCT/US2021/055825)

[87] (WO2022/087116)

[30] US (63/104,364) 2020-10-22

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[21] **3,199,234**
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **METHOD OF SUPPRESSING IMMUNE RESPONSE TO VECTOR-DELIVERED THERAPEUTIC PROTEIN**

[54] **PROCEDE DE SUPPRESSION DE LA REPONSE IMMUNITAIRE A UNE PROTEINE THERAPEUTIQUE ADMINISTREE PAR VECTEUR**

[72] BUSFIELD, SAMANTHA J., US
[72] WILSON, MATTHEW J., US
[71] SCOUT BIO, INC., US
[85] 2023-04-21
[86] 2021-10-20 (PCT/US2021/055881)
[87] (WO2022/087153)
[30] US (63/104,370) 2020-10-22

[21] **3,199,235**
[13] A1

[51] **Int.Cl. C07F 3/02 (2006.01)**

[25] EN

[54] **SELECTIVE ALKYLATION OF CYCLOPENTADIENE**

[54] **ALKYLATION SELECTIVE DE CYCLOPENTADIENE**

[72] HINKLE, PAUL, US
[72] LANEMAN, SCOTT A., US
[72] WEIDNER, VICTORIA, US
[71] ENTEGRIS, INC., US
[85] 2023-04-21
[86] 2021-10-21 (PCT/US2021/055970)
[87] (WO2022/087215)
[30] US (63/104,234) 2020-10-22

[21] **3,199,236**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01)**

[25] EN

[54] **COMMON MODE REJECTION CONFIGURATION FOR IMPROVING SPATIAL RESOLUTION**

[54] **CONFIGURATION DE REJECTION DE MODE COMMUN POUR AMELIORER LA RESOLUTION SPATIALE**

[72] SPECTOR, PETER S., US
[71] COREMAP, INC., US
[85] 2023-04-21
[86] 2021-10-21 (PCT/US2021/055984)
[87] (WO2022/087225)
[30] US (63/094,735) 2020-10-21

[21] **3,199,237**
[13] A1

[51] **Int.Cl. A61P 13/12 (2006.01) C07K 16/00 (2006.01) G01N 33/50 (2006.01)**

[25] EN

[54] **METHODS FOR IDENTIFYING AND TREATING ANTIBODY-MEDIATED ACQUIRED PRIMARY OR RECURRENT IDIOPATHIC NEPHROTIC SYNDROME**

[54] **PROCEDES D'IDENTIFICATION ET METHODES DE TRAITEMENT DU SYNDROME NEPHROTIQUE IDIOPATHIQUE PRIMAIRE OU RECURRENT ACQUIS A MEDIATION PAR DES ANTICORPS**

[72] WEINS, ASTRID, US
[72] RENNKE, HELMUT G., US
[72] HENDERSON, JOEL M., US
[72] WATTS, ANDREW, US
[72] KELLER, KEITH, US
[71] THE BRIGHAM AND WOMEN'S HOSPITAL, INC., US
[71] BOSTON MEDICAL CENTER CORPORATION, US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/056157)
[87] (WO2022/087341)
[30] US (63/104,306) 2020-10-22

[21] **3,199,238**
[13] A1

[51] **Int.Cl. A61K 31/44 (2006.01) C07D 213/80 (2006.01)**

[25] EN

[54] **METHODS OF MAKING NICOTINIC ACID DERIVATIVES**

[54] **PROCEDES DE FABRICATION DE DERIVES D'ACIDE NICOTINIQUE**

[72] MURUGAN, RAMIAH, US
[72] SMITH, COLIN, US
[72] THARP-TAYLOR, ROGER W., US
[71] VERTELLUS HOLDINGS LLC, US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/056198)
[87] (WO2022/087373)
[30] US (63/104,954) 2020-10-23

[21] **3,199,242**
[13] A1

[51] **Int.Cl. F24F 11/65 (2018.01) F24F 11/74 (2018.01) F24F 13/02 (2006.01) F24F 13/10 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM FOR A HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM**

[54] **SYSTEME DE COMMANDE POUR SYSTEME DE CHAUFFAGE, DE VENTILATION ET DE CLIMATISATION**

[72] NAKAI, AKINORI, US
[72] YAMADA, TAKAHIRO, US
[72] LI, CHENG, US
[72] NAKAGAWA, HIDEYUKI, US
[72] TAKAHASHI, SHINICHI, US
[71] GOODMAN GLOBAL GROUP, INC., US
[71] DAIKIN INDUSTRIES, LTD., JP
[85] 2023-04-20
[86] 2022-02-03 (PCT/US2022/015067)
[87] (WO2022/182491)
[30] US (17/186,237) 2021-02-26

[21] **3,199,243**
[13] A1

[51] **Int.Cl. G01M 13/021 (2019.01) B23F 23/12 (2006.01) G01B 5/00 (2006.01) G01B 11/00 (2006.01) G01B 11/24 (2006.01)**

[25] EN

[54] **AUTOMATED NONCONTACT SENSOR POSITIONING**

[54] **POSITIONNEMENT DE CAPTEUR SANS CONTACT AUTOMATISE**

[72] WAGAJ, PARAG PRAKASH, US
[72] SHEPHERD, ETHAN JAMES, US
[72] TANNER, MICHAEL R., US
[72] DAMRON, EDWARD J., US
[72] BEERCK, DOUGLAS CHARLES, US
[71] GLEASON METROLOGY SYSTEMS CORPORATION, US
[85] 2023-04-20
[86] 2021-11-16 (PCT/US2021/072424)
[87] (WO2022/109542)
[30] US (63/116,302) 2020-11-20

PCT Applications Entering the National Phase

[21] **3,199,244**
[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01) A46B 5/02 (2006.01) B29C 45/16 (2006.01)**

[25] EN

[54] **HANDLE FOR A PERSONAL CARE IMPLEMENT AND PERSONAL CARE IMPLEMENT**

[54] **MANCHE POUR ACCESSOIRE DE SOINS PERSONNELS ET ACCESSOIRE DE SOINS PERSONNELS**

[72] JUNGnickel, UWE, DE

[71] THE Gillette Company LLC, US

[85] 2023-04-20

[86] 2021-11-04 (PCT/US2021/072223)

[87] (WO2022/099274)

[30] EP (20206113.1) 2020-11-06

[21] **3,199,245**
[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01) A46B 5/02 (2006.01) B29C 45/16 (2006.01)**

[25] EN

[54] **HANDLE FOR A PERSONAL CARE IMPLEMENT AND PERSONAL CARE IMPLEMENT**

[54] **POIGNEE POUR INSTRUMENT DE SOINS PERSONNELS ET INSTRUMENT DE SOINS PERSONNELS**

[72] JUNGnickel, UWE, DE

[71] THE Gillette Company LLC, US

[85] 2023-04-20

[86] 2021-11-04 (PCT/US2021/072222)

[87] (WO2022/099273)

[30] EP (20206112.3) 2020-11-06

[21] **3,199,246**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 9/08 (2006.01) A61K 47/18 (2017.01) A61P 37/00 (2006.01)**

[25] EN

[54] **ANTI-SIGLEC-8 ANTIBODY FORMULATIONS**

[54] **FORMULATIONS D'ANTICORPS ANTI-SIGLEC-8**

[72] YOUEL, DAN, US

[72] CASARENO, RUBY, US

[71] ALLAKOS INC., US

[85] 2023-04-20

[86] 2021-10-21 (PCT/US2021/071958)

[87] (WO2022/087610)

[30] US (63/104,436) 2020-10-22

[21] **3,199,248**
[13] A1

[51] **Int.Cl. A46B 5/00 (2006.01) A46B 5/02 (2006.01) B29C 45/16 (2006.01)**

[25] EN

[54] **HANDLE FOR A PERSONAL CARE IMPLEMENT AND PERSONAL CARE IMPLEMENT**

[54] **POIGNEE POUR INSTRUMENT DE SOINS PERSONNELS ET ACCESSOIRE DE SOINS PERSONNELS**

[72] JUNGnickel, UWE, DE

[71] THE Gillette Company LLC, US

[85] 2023-04-20

[86] 2021-11-04 (PCT/US2021/072221)

[87] (WO2022/099272)

[30] EP (20206110.7) 2020-11-06

[21] **3,199,250**
[13] A1

[51] **Int.Cl. F42B 3/26 (2006.01) F42D 1/22 (2006.01) E21C 37/12 (2006.01) F42D 3/04 (2006.01)**

[25] EN

[54] **DETONATOR SUPPORT DEVICE FOR CHARGING A BLASTHOLE, BLASTING SYSTEM, METHOD OF PREPARING A DETONATOR SUPPORT DEVICE, EXPLOSIVE MATERIAL CHARGING VEHICLE AND DATA MEDIUM**

[54] **DISPOSITIF DE SUPPORT DE DETONATEUR PERMETTANT DE CHARGER UN TROU DE MINE, SYSTEME DE DYNAMITAGE, PROCEDE DE PREPARATION D'UN DISPOSITIF DE SUPPORT DE DETONATEUR, VEHICULE DE CHARGE DE MATERIAU EXPLOSIF ET SUPPORT DE DONNEES**

[72] PETROPOULOS, NIKOLAOS, SE

[71] LUOSSAVAARA KIIRUNAVAARA AB, SE

[85] 2023-04-20

[86] 2021-10-20 (PCT/SE2021/051036)

[87] (WO2022/086407)

[30] SE (2051232-3) 2020-10-22

[21] **3,199,251**
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01) G06Q 10/08 (2023.01) B67D 3/00 (2006.01)**

[25] EN

[54] **FLAVOR AND ADDITIVE DELIVERY SYSTEMS AND METHODS FOR BEVERAGE DISPENSERS**

[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION D'AROMES ET D'ADDITIFS POUR DISTRIBUTEURS DE BOISSONS**

[72] CONWAY, JOHN, US

[72] RAMIREZ, CESAR, US

[72] LYNCH, ERIK, US

[72] PEETERS, BART, US

[72] ZUDIC, ROBERT, US

[72] BOMBARD, MARILYN, US

[72] GOODROW, SAMUEL, US

[71] ELKAY MANUFACTURING COMPANY, US

[85] 2023-04-20

[86] 2021-10-19 (PCT/US2021/071929)

[87] (WO2022/087587)

[30] US (63/094,167) 2020-10-20

[30] US (17/244,516) 2021-04-29

[21] **3,199,252**
[13] A1

[51] **Int.Cl. F42D 1/08 (2006.01) E21C 37/12 (2006.01) F42B 3/00 (2006.01) F42D 3/04 (2006.01)**

[25] EN

[54] **A BLASTING SYSTEM AND A METHOD OF EXPLOSIVE MATERIAL CHARGING**

[54] **SYSTEME DE DYNAMITAGE ET PROCEDE DE CHARGE DE MATERIAU EXPLOSIF**

[72] PETROPOULOS, NIKOLAOS, SE

[71] LUOSSAVAARA KIIRUNAVAARA AB, SE

[85] 2023-04-20

[86] 2021-10-20 (PCT/SE2021/051040)

[87] (WO2022/086411)

[30] SE (2051233-1) 2020-10-22

Demandes PCT entrant en phase nationale

[21] **3,199,253**
[13] A1

[51] **Int.Cl. F42B 3/087 (2006.01) F42B 3/24 (2006.01) F42B 3/26 (2006.01) F42D 1/02 (2006.01) F42D 1/10 (2006.01) F42D 1/22 (2006.01) F42D 3/04 (2006.01)**

[25] EN

[54] **EXPLOSIVE MATERIAL CHARGING DEVICE FOR CHARGING A BOREHOLE METHOD OF POSITIONING AN EXPLOSIVE MATERIAL CHARGING DEVICE EXPLOSIVE MATERIAL CHARGING VEHICLE AND DATA MEDIUM**

[54] **DISPOSITIF DE CHARGE DE MATERIAU EXPLOSIF PERMETTANT DE CHARGER UN PROCEDE DE TROU DE FORAGE POUR POSITIONNER UN VEHICULE DE CHARGE DE MATERIAU EXPLOSIF DE DISPOSITIF DE CHARGE DE MATERIAU EXPLOSIF ET SUPPORT DE DONNEES**

[72] PETROPOULOS, NIKOLAOS, SE

[71] LUOSSAVAARA KIIRUNAVAARA AB, SE

[85] 2023-04-20

[86] 2021-10-20 (PCT/SE2021/051042)

[87] (WO2022/086413)

[30] SE (2051234-9) 2020-10-22

[21] **3,199,254**
[13] A1

[51] **Int.Cl. C07K 14/62 (2006.01)**

[25] EN

[54] **MOLECULAR DESIGNS OF GLUCOSE-RESPONSIVE AND GLUCOSE-CLEAVABLE INSULIN ANALOGUES**

[54] **CONCEPTIONS MOLECULAIRES D'ANALOGUES D'INSULINE SENSIBLES AU GLUCOSE ET CLIVABLES PAR LE GLUCOSE**

[72] JAROSINSKI, MARK, US

[72] WEISS, MICHAEL A., US

[72] DHAYALAN, BALAMURUGAN, US

[71] THE TRUSTEES OF INDIANA UNIVERSITY, US

[85] 2023-04-21

[86] 2021-10-22 (PCT/US2021/056215)

[87] (WO2022/087385)

[30] US (63/104,196) 2020-10-22

[21] **3,199,256**
[13] A1

[51] **Int.Cl. A23D 9/00 (2006.01) A23L 5/00 (2016.01) A23L 23/10 (2016.01) A23L 29/10 (2016.01)**

[25] EN

[54] **GRANULAR FOOD AND METHOD OF MANUFACTURING SAME**

[54] **ALIMENT GRANULAIRE ET SON PROCEDE DE PRODUCTION**

[72] NAGAOKA, HIROYUKI, JP

[71] SANYO FOODS CO., LTD., JP

[85] 2023-04-19

[86] 2021-10-05 (PCT/JP2021/036859)

[87] (WO2022/085440)

[30] JP (2020-177979) 2020-10-23

[30] JP (2021-115282) 2021-07-12

[21] **3,199,257**
[13] A1

[51] **Int.Cl. A01G 9/12 (2006.01) A01G 17/10 (2006.01)**

[25] EN

[54] **STAPLE**

[54] **ATTACHE**

[72] OSUGA, SATOSHI, JP

[72] ASAI, MASATOSHI, JP

[71] MAX CO., LTD., JP

[85] 2023-04-19

[86] 2021-10-27 (PCT/JP2021/039722)

[87] (WO2022/092172)

[30] JP (2020-183166) 2020-10-30

[30] JP (2021-166024) 2021-10-08

[21] **3,199,258**
[13] A1

[51] **Int.Cl. A61B 34/00 (2016.01) B60L 53/35 (2019.01)**

[25] EN

[54] **DEVICE AND METHOD FOR MOVING A CONNECTOR OF AN ELECTRIC VEHICLE CHARGER**

[54] **DISPOSITIF ET PROCEDE DE DEPLACEMENT D'UN CONNECTEUR D'UN CHARGEUR DE VEHICULE ELECTRIQUE**

[72] VAN DER WEIJDE, JOHANNES OOSTEN, NL

[72] VAN DEURZEN, KANTER, NL

[72] PARIS, GUUS NICO, NL

[72] VAN ROOIJEN, REMY, NL

[71] ROCSYS B.V., NL

[85] 2023-04-19

[86] 2021-10-08 (PCT/NL2021/050613)

[87] (WO2022/086320)

[30] NL (2026710) 2020-10-20

[21] **3,199,260**
[13] A1

[51] **Int.Cl. A45F 3/04 (2006.01) A45F 3/06 (2006.01) A45F 3/12 (2006.01) A63B 21/065 (2006.01)**

[25] EN

[54] **RUCKING ARTICLE**

[54] **ARTICLE DE RUCKING**

[72] MCCARTHY, JASON J., US

[71] GORUCK HOLDINGS, LLC, US

[85] 2023-04-21

[86] 2021-10-22 (PCT/US2021/056261)

[87] (WO2022/087417)

[30] US (63/104,193) 2020-10-22

[21] **3,199,261**
[13] A1

[51] **Int.Cl. C07D 241/44 (2006.01) A61K 31/498 (2006.01) A61K 31/551 (2006.01) A61P 25/28 (2006.01) C07D 243/12 (2006.01) C07D 413/12 (2006.01)**

[25] EN

[54] **COMPOUNDS FOR THE TREATMENT OF ALZHEIMER'S DISEASE**

[54] **COMPOSES POUR LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**

[72] NIEMAN, JAMES A., CA

[72] JHAMANDAS, JACK, CA

[72] BAI, BING, CA

[72] BELOVODSKIY, ALEXANDR, CA

[72] FU, WEN, CA

[72] HENA, MOSTOFA, CA

[72] HOUGHTON, MICHAEL, CA

[72] KANDADAI, APPAN SRINIVAS, CA

[72] KIMURA, RYOICHI, JP

[72] SAHU, KAMLESH KUMAR, CA

[72] TYRRELL, D. LORNE, CA

[71] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA

[85] 2023-04-20

[86] 2021-10-20 (PCT/CA2021/051474)

[87] (WO2022/082305)

[30] US (63/094,777) 2020-10-21

PCT Applications Entering the National Phase

[21] **3,199,264**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) C12Q 1/6804 (2018.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01) G01N 33/558 (2006.01)**

[25] EN
[54] **DIAGNOSTIC AND THERAPY OF TRAUMATIC BRAIN INJURY**
[54] **DIAGNOSTIC ET THERAPIE DES LESIONS CEREBRALES TRAUMATIQUES**

[72] FRASER, DOUGLAS, CA
[71] LONDON HEALTH SCIENCES CENTRE RESEARCH INC., CA

[85] 2023-04-20
[86] 2021-10-22 (PCT/CA2021/051493)
[87] (WO2022/082318)
[30] US (63/104,680) 2020-10-23

[21] **3,199,266**
[13] A1

[51] **Int.Cl. A61K 9/20 (2006.01) A61K 33/00 (2006.01) A61K 33/04 (2006.01) A61K 33/06 (2006.01) A61K 33/14 (2006.01)**

[25] EN
[54] **SULFATE SALT FORMULATIONS FOR COLON CLEANSING**
[54] **FORMULATIONS SALINES DE SULFATE POUR LE NETTOYAGE DU COLON**

[72] CLEVELAND, MARK B., US
[72] DENNETT, EDMUND V., US
[72] PELHAM, RUSSELL W., US
[71] BRAINTREE LABORATORIES, INC., US

[85] 2023-04-24
[86] 2020-10-26 (PCT/US2020/057335)
[87] (WO2022/093170)

[21] **3,199,268**
[13] A1

[51] **Int.Cl. H05K 13/00 (2006.01) H01R 12/75 (2011.01) H01R 24/50 (2011.01) G02B 7/02 (2021.01) H01L 23/32 (2006.01) H01L 23/40 (2006.01)**

[25] EN
[54] **RIGID MOUNTING CONNECTOR**
[54] **CONNECTEUR DE MONTAGE RIGIDE**

[72] DECOOK, BRADLEY, US
[71] ITT MANUFACTURING ENTERPRISES LLC, US

[85] 2023-04-24
[86] 2020-10-28 (PCT/US2020/057651)
[87] (WO2022/093209)

[21] **3,199,269**
[13] A1

[51] **Int.Cl. A61K 31/42 (2006.01) A61K 31/422 (2006.01) C07D 261/02 (2006.01) C07D 413/04 (2006.01)**

[25] EN
[54] **ISOXAZOLE DERIVATIVES AS MODULATORS OF THE 5-HT2A SEROTONIN RECEPTOR USEFUL FOR THE TREATMENT OF DISORDERS RELATED THERETO**
[54] **DERIVES D'ISOXAZOLE EN TANT QUE MODULATEURS DU RECEPTEUR SEROTONINERGIQUE 5-HT2A UTILES POUR LE TRAITEMENT DE TROUBLES ASSOCIES A CELUI-CI**

[72] SEMPLE, GRAEME, US
[72] TRAN, THUY-ANH, US
[71] ARENA PHARMACEUTICALS, INC., US

[85] 2023-04-24
[86] 2021-10-26 (PCT/US2021/056694)
[87] (WO2022/093850)
[30] US (63/106,156) 2020-10-27
[30] US (63/133,046) 2020-12-31

[21] **3,199,271**
[13] A1

[51] **Int.Cl. G06Q 20/02 (2012.01) G06Q 20/10 (2012.01) G06Q 20/12 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01) G06Q 20/40 (2012.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR AUTHENTICATION FOR HIGH-RISK COMMUNICATIONS**
[54] **PROCEDES ET SYSTEMES D'AUTHENTIFICATION POUR COMMUNICATIONS A HAUT RISQUE**

[72] MCKINNON, NATHANIEL, US
[72] PHILLIPS, JEREMY, US
[71] CAPITAL ONE SERVICES, LLC, US

[85] 2023-04-24
[86] 2021-10-26 (PCT/US2021/056632)
[87] (WO2022/093806)
[30] US (17/083,161) 2020-10-28

[21] **3,199,272**
[13] A1

[51] **Int.Cl. A61G 7/015 (2006.01) A61G 5/00 (2006.01) A61G 7/05 (2006.01)**

[25] EN
[54] **MULTIFUNCTIONAL CARE DEVICE**
[54] **DISPOSITIF DE SOINS MULTIFONCTIONNEL**

[72] YE, KONG MENG, CN
[72] CHIA, LAI JOO, MY
[71] YE, KONG MENG, CN
[71] CHIA, LAI JOO, MY

[85] 2023-04-20
[86] 2020-12-07 (PCT/CN2020/134273)
[87] (WO2022/099835)
[30] CN (202011270035.9) 2020-11-13

[21] **3,199,274**
[13] A1

[51] **Int.Cl. A61K 31/395 (2006.01) A61K 31/495 (2006.01) A61K 31/505 (2006.01) C07D 239/02 (2006.01) C07D 239/24 (2006.01) C07D 239/26 (2006.01)**

[25] EN
[54] **PYRIMIDINE DERIVATIVES AS MODULATORS OF THE 5-HT2A SEROTONIN RECEPTOR USEFUL FOR THE TREATMENT OF DISORDERS RELATED THERETO**
[54] **DERIVES DE PYRIMIDINE EN TANT QUE MODULATEURS DU RECEPTEUR 5-HT2A DE LA SEROTONINE UTILES POUR LE TRAITEMENT DE TROUBLES ASSOCIES A CELUI-CI**

[72] SEMPLE, GRAEME, US
[72] TRAN, THUY-ANH, US
[71] ARENA PHARMACEUTICALS, INC., US

[85] 2023-04-24
[86] 2021-10-26 (PCT/US2021/056693)
[87] (WO2022/093849)
[30] US (63/106,069) 2020-10-27
[30] US (63/133,096) 2020-12-31

Demandes PCT entrant en phase nationale

[21] **3,199,278**
[13] A1

[51] **Int.Cl. C07H 19/10 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **MODIFIED NUCLEOSIDE OR NUCLEOTIDE**

[54] **NUCLEOSIDE OU NUCLEOTIDE MODIFIE**

[72] XU, XUN, CN

[72] TENG, BO, CN

[72] ZHANG, WENWEI, CN

[72] CHEN, AO, CN

[72] LI, HANDONG, CN

[72] YAN, SHENGYI, CN

[72] ZHUO, SHITIAN, CN

[72] SHEN, LIANG, CN

[72] ZHANG, YONGHUI, CN

[72] GAO, NANFENG, CN

[72] ZHAO, JIE, CN

[72] LIAO, SHA, CN

[71] BGI SHENZHEN, CN

[71] BGI SHENZHEN GROUP HOLDINGS CO., LIMITED, CN

[85] 2023-04-20

[86] 2021-10-21 (PCT/CN2021/125262)

[87] (WO2022/083686)

[30] CN (202011134947.3) 2020-10-21

[21] **3,199,282**
[13] A1

[51] **Int.Cl. B01J 23/83 (2006.01) B01J 35/02 (2006.01) B01J 37/00 (2006.01) C07C 5/00 (2006.01)**

[25] EN

[54] **PROCESS OF PRODUCING ALKENYLAROMATIC COMPOUND USING DEHYDROGENATION CATALYST**

[54] **PROCESSUS DE PRODUCTION D'UN COMPOSE ALCENYLAROMATIQUE A L'AIDE D'UN CATALYSEUR DE DESHYDROGENATION**

[72] SCHULZ, FELIX, DE

[72] SCHWARZER, HANS-CHRISTOPH, DE

[72] KODAKARI, NOBUAKI, JP

[72] KURAGUCHI, YUMA, JP

[72] KUSABA, TAKASHI, JP

[71] CLARIANT INTERNATIONAL LTD, CH

[71] CLARIANT CATALYSTS (JAPAN) K.K., JP

[85] 2023-04-20

[86] 2021-12-07 (PCT/EP2021/084481)

[87] (WO2022/128597)

[30] EP (20214362.4) 2020-12-15

[21] **3,199,287**
[13] A1

[51] **Int.Cl. G01S 13/32 (2006.01) G01S 13/88 (2006.01) G01V 3/12 (2006.01)**

[25] EN

[54] **DEVICE FOR RADIOLOCATION OF OBJECTS IN SPACE AND A GPR SYSTEM**

[54] **DISPOSITIF DE RADIOLOCALISATION D'OBJETS DANS L'ESPACE ET SYSTEME GPR**

[72] KULAK, ANDRZEJ, PL

[71] WIDMO SPECTRAL TECHNOLOGIES SP. Z O.O., PL

[85] 2023-04-20

[86] 2020-11-02 (PCT/IB2020/060261)

[87] (WO2022/090786)

[21] **3,199,289**
[13] A1

[51] **Int.Cl. C01B 17/74 (2006.01) C01B 17/50 (2006.01) C01B 17/52 (2006.01) C01B 17/76 (2006.01) C01B 17/80 (2006.01) F23G 7/00 (2006.01) F23G 7/04 (2006.01) F27D 7/02 (2006.01)**

[25] EN

[54] **REACTOR ASSEMBLY, SULFUR-CONTAINING WASTE TREATMENT SYSTEM, METHOD FOR BURNING SULFUR-CONTAINING WASTE, AND METHOD FOR MAKING SULFURIC ACID BY REGENERATING SULFUR-CONTAINING WASTE**

[54] **ENSEMBLE REACTEUR, SYSTEME DE TRAITEMENT DE DECHETS CONTENANT DU SOUFRE, PROCEDE D'INCINERATION DE DECHETS CONTENANT DU SOUFRE, ET PROCEDE DE PREPARATION D'ACIDE SULFURIQUE PAR LA REGENERATION DE DECHETS CONTENANT DU SOUFRE**

[72] XU, XIAOYAN, CN

[72] WEI, LAN, CN

[72] CHEN, YINGBIN, CN

[72] WANG, XUEWEN, CN

[72] JIANG, BIQING, CN

[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN

[71] SINOPEC NANJING RESEARCH INSTITUTE OF CHEMICAL INDUSTRY CO., LTD., CN

[85] 2023-04-20

[86] 2021-10-22 (PCT/CN2021/125714)

[87] (WO2022/083737)

[30] CN (202011148953.4) 2020-10-23

[30] CN (202011150297.1) 2020-10-23

[30] CN (202110736751.X) 2021-06-30

[30] CN (202110736752.4) 2021-06-30

[30] CN (202121481507.5) 2021-06-30

[30] CN (202110736743.5) 2021-06-30

[30] CN (202110739636.8) 2021-06-30

[30] CN (202110736744.X) 2021-06-30

PCT Applications Entering the National Phase

[21] **3,199,291**
[13] A1

[51] **Int.Cl. C01B 32/192 (2017.01) C01B 32/198 (2017.01) C01B 32/23 (2017.01)**

[25] EN

[54] **A METHOD FOR THE MANUFACTURE OF REDUCED GRAPHENE OXIDE**

[54] **METHODE DE FABRICATION D'OXYDE DE GRAPHENE REDUIT**

[72] VU, THI TAN, ES

[72] ARENAS VIVO, ANA, ES

[72] NORIEGA PEREZ, DAVID, ES

[72] SUAREZ SANCHEZ, ROBERTO, ES

[71] VERDICIO SOLUTIONS A.I.E., ES

[85] 2023-04-20

[86] 2020-11-13 (PCT/IB2020/060682)

[87] (WO2022/101663)

[21] **3,199,292**
[13] A1

[51] **Int.Cl. C04B 20/00 (2006.01) C04B 28/02 (2006.01) C04B 38/10 (2006.01)**

[25] EN

[54] **COMPOSITION OF AN INSULATION MATERIAL AND A SOLID INSULATION MATERIAL IN ITSELF**

[54] **COMPOSITION D'UN MATERIAU ISOLANT ET MATERIAU ISOLANT SOLIDE EN LUI-MEME**

[72] CHARTOUNI, SAM, BE

[71] AEROBEL BV, BE

[85] 2023-04-20

[86] 2021-10-21 (PCT/IB2021/059699)

[87] (WO2022/084898)

[30] BE (2020/5736) 2020-10-21

[21] **3,199,295**
[13] A1

[51] **Int.Cl. C07D 231/02 (2006.01) A61K 31/415 (2006.01) A61K 31/4155 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **NEW CRYSTALLINE FORMS OF A KRAS G12C INHIBITOR**

[54] **NOUVELLES FORMES CRISTALLINES D'UN COMPOSE INHIBITEUR DE KRAS G12C**

[72] LIU, BO, CN

[72] COTESTA, SIMONA, CH

[72] GE, HENG, CN

[72] GERSPACHER, MARC, CH

[72] LEBLANC, CATHERINE, CH

[72] LORTHIOIS, EDWIGE LILIANE JEANNE, CH

[72] MACHAUER, RAINER, CH

[72] MAH, ROBERT, CH

[72] MEISTER, TANJA, CH

[72] MURA, CHRISTOPHE, CH

[72] RIGOLLIER, PASCAL, CH

[72] SCHNEIDER, NADINE, CH

[72] STUTZ, STEFAN, CH

[72] VAUPEL, ANDREA, CH

[72] WARIN, NICOLAS, CH

[72] WILCKEN, RAINER, CH

[72] XUE, LIJUN, CN

[71] NOVARTIS AG, CH

[85] 2023-04-20

[86] 2021-10-29 (PCT/CN2021/127601)

[87] (WO2022/089604)

[30] CN (PCT/CN2020/125425) 2020-10-30

[30] IB (PCT/IB2020/062144) 2020-12-17

[30] CN (PCT/CN2021/101813) 2021-06-23

[21] **3,199,297**
[13] A1

[51] **Int.Cl. B41J 2/16 (2006.01) C08L 9/00 (2006.01) C08L 9/02 (2006.01) C08L 9/06 (2006.01) C08L 13/00 (2006.01) C08L 15/00 (2006.01) C08L 51/00 (2006.01) C09J 115/00 (2006.01)**

[25] EN

[54] **SOLVENT RESISTANT ELASTOMERIC GLUE FOR INK JET PRINTHEAD**

[54] **COLLE ELASTOMERE RESISTANTE AUX SOLVANTS POUR TETE D'IMPRESSON A JET D'ENCRE**

[72] CIAMPINI, DAVIDE, IT

[71] SICPA HOLDING SA, CH

[85] 2023-04-20

[86] 2021-10-15 (PCT/EP2021/078614)

[87] (WO2022/084183)

[30] EP (20203024.3) 2020-10-21

[21] **3,199,303**
[13] A1

[51] **Int.Cl. A01N 43/653 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01)**

[25] EN

[54] **1-(PYRIDYL)-5-AZINYLPYRAZOLE DERIVATIVES, AND THEIR USE FOR CONTROL OF UNDESIREED PLANT GROWTH**

[54] **DERIVES DE 1-(PYRIDYL)-5-AZINYLPYRAZOLE ET LEUR UTILISATION POUR LUTTER CONTRE LA CROISSANCE DE PLANTES INDESIRABLES**

[72] BUSCATO, ESTELLA, DE

[72] HOFFMANN, MICHAEL GERHARD, DE

[72] JAKOBI, HARALD, DE

[72] MUELLER, THOMAS, DE

[72] BOLLENBACH-WAHL, BIRGIT, DE

[72] DITTGEN, JAN, DE

[72] GATZWEILER, ELMAR, DE

[72] REINGRUBBER, ANNA MARIA, DE

[71] BAYER AKTIENGESELLSCHAFT, DE

[85] 2023-04-20

[86] 2021-10-19 (PCT/EP2021/078878)

[87] (WO2022/084278)

[30] EP (20203487.2) 2020-10-23

[21] **3,199,307**
[13] A1

[51] **Int.Cl. E21B 47/009 (2012.01)**

[25] EN

[54] **METHOD, ANALYSIS DEVICE AND PUMPING SYSTEM FOR DETECTING AN OIL LEAK IN A BEAM PUMP**

[54] **PROCEDE, DISPOSITIF D'ANALYSE ET SYSTEME DE POMPAGE POUR LA DETECTION D'UNE FUITE DE PETROLE DANS UNE POMPE A BALANCIER**

[72] HATZL, JURGEN, AT

[72] KUBERL, SEVERIN, AT

[72] MAYER, MARTIN, AT

[72] WAKOLBINGER, STEFAN, AT

[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE

[85] 2023-04-20

[86] 2021-10-19 (PCT/EP2021/078915)

[87] (WO2022/084297)

[30] EP (20203338.7) 2020-10-22

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[21] **3,199,308**
[13] A1

[51] **Int.Cl. H01M 8/18 (2006.01)**
[25] EN
[54] **FLOW BATTERY STATE OF HEALTH INDICATOR**
[54] **INDICATEUR D'ETAT DE SANTE DE BATTERIE A CIRCULATION**
[72] WHITEHEAD, ADAM, AT
[72] MCDERMOTT, JACK, GB
[72] REID, DANIEL, GB
[72] LYONS, PHIL, GB
[71] INVINITY ENERGY SYSTEMS (IRELAND) LIMITED, IE
[85] 2023-04-20
[86] 2021-10-19 (PCT/EP2021/078996)
[87] (WO2022/084345)
[30] GB (2016639.3) 2020-10-20

[21] **3,199,311**
[13] A1

[51] **Int.Cl. G16H 20/13 (2018.01) G16H 50/20 (2018.01) G16H 50/30 (2018.01) G16H 50/70 (2018.01)**
[25] EN
[54] **INHALER SYSTEM**
[54] **SYSTEME A INHALATEUR**
[72] NAUMOV, MICHAEL, IL
[72] NIR, YARON, IL
[71] NORTON (WATERFORD) LIMITED, IE
[85] 2023-04-20
[86] 2021-10-20 (PCT/EP2021/079124)
[87] (WO2022/084408)
[30] US (63/094,509) 2020-10-21

[21] **3,199,312**
[13] A1

[51] **Int.Cl. B62B 5/04 (2006.01) B62B 9/08 (2006.01)**
[25] EN
[54] **WHEEL SET BRAKE MECHANISM AND BABY TRANSPORT**
[54] **MECANISME DE FREIN DE JEU DE ROUES ET TRANSPORT DE BEBE**
[72] ZHU, WANQUAN, CN
[72] GUO, ZHENGWEN, CN
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2023-04-20
[86] 2021-10-22 (PCT/EP2021/079357)
[87] (WO2022/084515)
[30] CN (202011143964.3) 2020-10-22

[21] **3,199,313**
[13] A1

[51] **Int.Cl. A21D 13/062 (2017.01) A21D 8/04 (2006.01) C12N 9/34 (2006.01)**
[25] EN
[54] **BAKED AND PAR-BAKED PRODUCTS WITH THERMOSTABLE AMG VARIANTS FROM PENICILLIUM**
[54] **PRODUITS CUITS ET PRECUITS A VARIANTS D'AMG THERMOSTABLES A PARTIR DE PENICILLIUM**
[72] LUNDKVIST, HENRIK, DK
[72] VARMING, CAMILLA, DK
[72] ANDERSEN, CARSTEN, DK
[72] SINIK, HASIM, TR
[72] OZCOMLEKCI, ESRA, TR
[71] NOVOZYMES A/S, DK
[85] 2023-04-20
[86] 2021-11-02 (PCT/EP2021/080317)
[87] (WO2022/090562)
[30] DK (PA 2020 01238) 2020-11-02
[30] DK (PA 2021 00367) 2021-04-12

[21] **3,199,315**
[13] A1

[51] **Int.Cl. C12N 9/52 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **GLUCOAMYLASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME**
[54] **VARIANTS DE GLUCOAMYLASE ET POLYNUCLEOTIDES CODANT POUR CEUX-CI**
[72] KURAKATA, YUMA, JP
[72] TOMIKI-HASHIZUME, AKI, JP
[71] NOVOZYMES A/S, DK
[85] 2023-04-20
[86] 2021-11-02 (PCT/EP2021/080338)
[87] (WO2022/090564)
[30] DK (PA 2020 01234) 2020-11-02

[21] **3,199,316**
[13] A1

[51] **Int.Cl. C21D 9/04 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/18 (2006.01) C21D 11/00 (2006.01)**
[25] EN
[54] **STEEL FOR RAILS AND A METHOD OF MANUFACTURING OF A RAIL THEREOF**
[54] **ACIER POUR RAILS ET PROCEDE DE FABRICATION D'UN RAIL ASSOCIE**
[72] CARRASCAL, DIEGO, ES
[72] ALVAREZ DIEZ, DAVID, ES
[72] ARANCON ALVAREZ, JOSE, ES
[72] SOLANO ALVAREZ, WILBERTH, ES
[71] ARCELORMITTAL, LU
[85] 2023-04-20
[86] 2020-11-17 (PCT/IB2020/060815)
[87] (WO2022/106864)

[21] **3,199,319**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **PROTEINS COMPRISING DELTA-LIKE LIGAND 3 (DLL3) ANTIGEN BINDING DOMAINS AND THEIR USES**
[54] **PROTEINES COMPRENANT DES DOMAINES DE LIAISON A L'ANTIGENE DU LIGAND 3 DE TYPE DELTA ET LEURS UTILISATIONS**
[72] YANG, DANLIN, US
[72] SINGH, SANJAYA, US
[72] BRODEUR, SCOTT R., US
[72] CARTON, JILL M., US
[72] GANESAN, RAJKUMAR, US
[72] HERTZOG, JENNIFER, US
[72] MCDEVITT, THERESA, US
[72] PICHA, KRISTEN M., US
[72] SMITH, RYAN M., US
[72] ZWOLAK, ADAM, US
[72] VENKATARAMANI, SATHYADEVI, US
[72] POWERS, GORDON D., US
[71] JANSSEN BIOTECH, INC., US
[85] 2023-04-20
[86] 2021-10-21 (PCT/IB2021/059724)
[87] (WO2022/084915)
[30] US (63/094,933) 2020-10-22
[30] US (63/094,934) 2020-10-22

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[21] **3,199,325**
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01)**
[25] EN
[54] **HIGH CRYSTALLINITY ETHYLENE-VINYLCYCLOHEXANE COPOLYMERS**
[54] **COPOLYMERES D'ETHYLENE-VINYLCYCLOHEXANE A CRISTALLINITE ELEVEE**
[72] WANG, XIAOCHUAN, CA
[72] ZORICAK, PETER, CA
[72] MOLLOY, BRIAN, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2023-04-20
[86] 2021-12-03 (PCT/IB2021/061324)
[87] (WO2022/123413)
[30] US (63/124,620) 2020-12-11

[21] **3,199,328**
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/6592 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **LOW CRYSTALLINITY ETHYLENE-VINYLCYCLOHEXANE COPOLYMERS**
[54] **COPOLYMERES D'ETHYLENE-VINYLCYCLOHEXANE A FAIBLE CRISTALLINITE**
[72] WANG, XIAOCHUAN, CA
[72] ZORICAK, PETER, CA
[72] MOLLOY, BRIAN, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2023-04-20
[86] 2021-12-03 (PCT/IB2021/061325)
[87] (WO2022/123414)
[30] US (63/124,625) 2020-12-11

[21] **3,199,331**
[13] A1

[51] **Int.Cl. B23D 19/04 (2006.01) B23D 35/00 (2006.01)**
[25] EN
[54] **MASTERING OF TRIMMING KNIVES POSITION**
[54] **MATRICAGE DE LA POSITION DE COUTEAUX D'EBAVURAGE**
[72] TOUCHE, THOMAS, FR
[72] CHAMPÉMAUD, SEBASTIEN, FR
[72] ERTZ, STEPHANE, FR
[72] HEMMEN, JEAN-MARC, FR
[71] ARCELORMITTAL, LU
[85] 2023-04-20
[86] 2021-12-08 (PCT/IB2021/061438)
[87] (WO2022/130126)
[30] IB (PCT/IB2020/061933) 2020-12-15

[21] **3,199,334**
[13] A1

[51] **Int.Cl. G01N 27/00 (2006.01) H01M 14/00 (2006.01)**
[25] EN
[54] **APPARATUS, SENSOR, SENSING METHOD, SENSOR SYSTEM, AND POWER GENERATION METHOD**
[54] **APPAREIL, CAPTEUR, PROCEDE DE DETECTION, SYSTEME DE CAPTEUR ET PROCEDE DE GENERATION DE PUISSANCE**
[72] NAKAGAWA, SATOSHI, JP
[72] OOI, HIROTAKA, JP
[71] TRIPOD DESIGN CO., LTD., JP
[85] 2023-04-20
[86] 2021-08-11 (PCT/JP2021/029687)
[87] (WO2022/085279)
[30] JP (2020-178432) 2020-10-23

[21] **3,199,335**
[13] A1

[51] **Int.Cl. A61N 1/18 (2006.01) G06F 3/01 (2006.01) H02M 3/155 (2006.01)**
[25] EN
[54] **DEVICE AND ENERGIZATION METHOD**
[54] **DISPOSITIF ET PROCEDE D'EXCITATION**
[72] NAKAGAWA, SATOSHI, JP
[71] TRIPOD DESIGN CO., LTD., JP
[85] 2023-04-20
[86] 2021-10-19 (PCT/JP2021/038663)
[87] (WO2022/085697)
[30] JP (2020-176739) 2020-10-21

[21] **3,199,336**
[13] A1

[51] **Int.Cl. C08B 3/06 (2006.01)**
[25] EN
[54] **CELLULOSE ACETATE AND CELLULOSE ACETATE COMPOSITION**
[54] **ACETATE DE CELLULOSE ET COMPOSITION D'ACETATE DE CELLULOSE**
[72] MATSUMURA, HIROYUKI, JP
[72] TANIGUCHI, HIROKI, JP
[72] HIGUCHI, AKIHIRO, JP
[72] HASHIZUME, TOMOHIRO, JP
[72] KUSUMOTO, MASA-AKI, JP
[71] DAICEL CORPORATION, JP
[85] 2023-04-20
[86] 2020-10-21 (PCT/JP2020/039573)
[87] (WO2022/085119)

[21] **3,199,338**
[13] A1

[51] **Int.Cl. A43D 11/00 (2006.01) A43D 95/06 (2006.01) A43D 95/26 (2006.01) A43D 119/00 (2006.01)**
[25] EN
[54] **IMPREGNATING DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE D'IMPREGNATION**
[72] MARKER, RENE, DK
[71] IMBOX PROTECTION A/S, DK
[85] 2023-04-21
[86] 2021-11-18 (PCT/DK2021/050339)
[87] (WO2022/105977)
[30] DK (PA 2020 70765) 2020-11-18

[21] **3,199,340**
[13] A1

[51] **Int.Cl. H01M 4/134 (2010.01) H01M 4/1395 (2010.01) B82Y 40/00 (2011.01) C01B 32/00 (2017.01) C01B 32/182 (2017.01) H01M 4/24 (2006.01)**
[25] EN
[54] **SILICON CARBON COMPOSITE MATERIALS AND METHODS FOR MAKING SAME**
[54] **MATERIAUX COMPOSITES CARBONE-SILICIUM ET LEURS PROCEDES DE FABRICATION**
[72] EDWARDS, GEOFFREY, AU
[71] SICONA BATTERY TECHNOLOGIES PTY LTD, AU
[85] 2023-04-21
[86] 2021-10-20 (PCT/AU2021/051221)
[87] (WO2022/082263)
[30] AU (2020903802) 2020-10-21

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[21] **3,199,344**
[13] A1

[51] **Int.Cl. C12P 7/00 (2006.01) B29B 17/00 (2006.01) C08J 11/18 (2006.01) C12N 9/16 (2006.01) C12P 1/00 (2006.01) C12P 7/40 (2006.01) C12P 7/62 (2022.01)**

[25] EN

[54] **MECHANOENZYMATIC DEGRADATION OF POLYMERS**

[54] **DEGRADATION MECANO-ENZYMATIQUE DE POLYMERES**

[72] AUCLAIR, KARINE, CA

[72] FRISCIC, TOMISLAV, CA

[72] KAABEL, SANDRA, CA

[72] THERIEN, JAMES PATRICK, CA

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

[85] 2023-04-21

[86] 2020-10-27 (PCT/CA2020/051438)

[87] (WO2021/081633)

[30] US (62/926,738) 2019-10-28

[21] **3,199,426**
[13] A1

[51] **Int.Cl. C07C 219/10 (2006.01) A61K 31/216 (2006.01) A61P 19/02 (2006.01) C07C 211/63 (2006.01) C07C 213/06 (2006.01)**

[25] EN

[54] **TOPICAL ADMINISTRATION OF 2-(DIETHYLAMINO)ETHYL 2-(4-ISOBUTYLPHENYL)PROPIONATE FOR TREATMENT OF DISEASES**

[54] **ADMINISTRATION TOPIQUE DE PROPIONATE DE 2-(DIETHYLAMINO)ETHYL-2-(4-ISOBUTYLPHENYLE) POUR LE TRAITEMENT DE MALADIES**

[72] YU, CHONGXI, US

[72] XU, LINA, CN

[71] TECHFIELDS INC., US

[85] 2023-05-17

[86] 2021-06-04 (PCT/CN2021/098323)

[87] (WO2021/244637)

[30] CN (PCT/CN2020/094560) 2020-06-05

[21] **3,199,438**
[13] A1

[51] **Int.Cl. G06T 1/20 (2006.01) G06T 15/80 (2011.01) H04N 13/282 (2018.01) G06T 1/60 (2006.01) G06T 15/10 (2011.01)**

[25] EN

[54] **MULTIVIEW DISPLAY SYSTEM AND METHOD EMPLOYING MULTIVIEW IMAGE CONVERGENCE PLANE TILT**

[54] **SYSTEME ET PROCEDE D'AFFICHAGE MULTI-VUE EMPLOYANT UNE INCLINAISON DE PLAN DE CONVERGENCE D'IMAGES MULTI-VUE**

[72] DAHLQUIST, NICOLAS, US

[72] OZOG, JESSE, US

[71] LEIA INC., US

[85] 2023-04-20

[86] 2020-12-18 (PCT/US2020/066251)

[87] (WO2022/108609)

[30] US (63/115,531) 2020-11-18

[21] **3,199,345**
[13] A1

[51] **Int.Cl. C07F 9/6558 (2006.01) A61K 31/675 (2006.01) A61P 9/10 (2006.01) A61P 11/00 (2006.01) A61P 19/02 (2006.01) A61P 27/00 (2006.01) A61P 43/00 (2006.01) C07D 401/12 (2006.01)**

[25] EN

[54] **CRYSTALLINE SOLID MEGLUMINE SALT INHIBITOR OF BCL AND METHODS OF MAKING AND USING SAME**

[54] **INHIBITEUR DE SEL DE MEGLUMINE SOLIDE CRISTALLIN DE BCL ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**

[72] LIAO, LIANG, US

[72] NING, YUXI, CN

[72] LI, JANE, CN

[72] LU, YUE, CN

[72] SHI, ALBERT, US

[72] GUZ, NATHAN, US

[71] UNITY BIOTECHNOLOGY, INC., US

[71] PHARMARON BEIJING CO., LTD., CN

[85] 2023-04-21

[86] 2020-11-10 (PCT/CN2020/127666)

[87] (WO2022/099431)

[21] **3,199,437**
[13] A1

[51] **Int.Cl. B42D 25/00 (2014.01) B41J 3/00 (2006.01) B41M 3/14 (2006.01) G06K 1/12 (2006.01) G06K 13/077 (2006.01) G06K 17/00 (2006.01) G06K 19/077 (2006.01)**

[25] EN

[54] **DEVICE AND METHOD FOR PROCESSING DOCUMENTS**

[54] **DISPOSITIF ET PROCEDE DE TRAITEMENT DE DOCUMENTS**

[72] DABROWSKI, HUBERT, DE

[72] GUNTHER, ANDY, DE

[71] MUHLBAUER GMBH & CO. KG, DE

[85] 2023-04-21

[86] 2021-09-29 (PCT/EP2021/076879)

[87] (WO2022/083994)

[30] DE (10 2020 128 018.1) 2020-10-23

[21] **3,199,439**
[13] A1

[51] **Int.Cl. G06Q 30/06 (2023.01) G06V 10/25 (2022.01) G06V 10/56 (2022.01) G06V 10/82 (2022.01) G06V 40/10 (2022.01)**

[25] EN

[54] **DIGITAL IMAGING AND LEARNING SYSTEMS AND METHODS FOR ANALYZING PIXEL DATA OF AN IMAGE OF A HAIR REGION OF A USER'S HEAD TO GENERATE ONE OR MORE USER-SPECIFIC RECOMMENDATIONS**

[54] **SYSTEMES ET PROCEDES D'IMAGERIE ET D'APPRENTISSAGE NUMERIQUES DESTINES A ANALYSER DES DONNEES DE PIXELS D'UNE IMAGE D'UNE REGION DE CHEVELURE DE LA TETE D'UN UTILISATEUR POUR GENERER UNE OU PLUSIEURS RECOMMANDATIONS SPECIFIQUES A L'UTILISATEUR**

[72] PUNYANI, SUPRIYA, SG

[72] PADALA, VANDANA REDDY, SG

[72] HU, PING, US

[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2023-04-21

[86] 2021-11-18 (PCT/US2021/059836)

[87] (WO2022/109096)

[30] US (16/953,385) 2020-11-20

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[21] **3,199,441**
[13] A1

[51] **Int.Cl. C07H 21/00 (2006.01) C12Q 1/6806 (2018.01) C07K 1/22 (2006.01) G01N 33/543 (2006.01)**

[25] EN

[54] **METHODS OF OLIGONUCLEOTIDE-BASED AFFINITY CHROMATOGRAPHY**

[54] **METHODES DE CHROMATOGRAPHIE D’AFFINITE A BASE D’OLIGONUCLEOTIDES**

[72] ZHOU, JINXIANG, US

[72] TEMPLES, GRAHAM, US

[71] DONALDSON COMPANY, INC., US

[85] 2023-04-21

[86] 2021-11-15 (PCT/US2021/059363)

[87] (WO2022/104197)

[30] US (63/113,594) 2020-11-13

[21] **3,199,442**
[13] A1

[51] **Int.Cl. C12N 15/63 (2006.01) A61K 9/20 (2006.01) A61K 31/00 (2006.01)**

[25] EN

[54] **NOVEL RNA TRANSCRIPT**

[54] **NOUVEAU TRANSCRIT D’ARN**

[72] BHATTACHARYYA, ANURADHA, US

[72] CHENG, YAOFENG, US

[72] EFFENBERGER, KERSTIN ANNEMARIE, US

[72] LI, WENCHENG, US

[72] NARASIMHAN, JANA, US

[72] TROTTA, CHRISTOPHER ROBERT, US

[72] WEETALL, MARLA L., US

[72] WOLL, MATTHEW G., US

[71] PTC THERAPEUTICS INC., US

[85] 2023-04-21

[86] 2021-11-11 (PCT/US2021/059010)

[87] (WO2022/103980)

[30] US (63/113,182) 2020-11-12

[30] US (63/113,826) 2020-11-13

[30] US (63/192,203) 2021-05-24

[30] US (63/245,927) 2021-09-19

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[30] US (63/261,495) 2021-09-22

[30] US (63/255,745) 2021-10-14

[21] **3,199,443**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01) A61F 2/962 (2013.01)**

[25] EN

[54] **SYSTEMS, TOOLS, AND METHODS FOR DELIVERING IMPLANTS AND CATHETERS FOR A PROSTHETIC VALVE**

[54] **SYSTEMES, OUTILS, ET PROCEDES D’ADMINISTRATION D’IMPLANTS ET DE CATHETERS A UNE VALVE PROTHETIQUE**

[72] SHING, JOSEPH, US

[72] VENTRESS, JAMES WILLIAM, US

[72] METHOD, ANDREW GORDON, US

[71] EDWARDS LIFESCIENCES CORPORATION, US

[85] 2023-04-21

[86] 2021-11-03 (PCT/US2021/057847)

[87] (WO2022/098720)

[30] US (63/109,563) 2020-11-04

[21] **3,199,444**
[13] A1

[51] **Int.Cl. B26B 21/60 (2006.01)**

[25] EN

[54] **RAZOR BLADES WITH CHROMIUM BORIDE-BASED COATINGS**

[54] **LAMES DE RASOIR AVEC REVETEMENTS A BASE DE BORURE DE CHROME**

[72] ZHUK, ANDREW VLADIMIROVICH, US

[72] DUFF, RONALD RICHARD, JR., US

[71] THE GILLETTE COMPANY LLC, US

[85] 2023-04-21

[86] 2021-11-02 (PCT/US2021/057649)

[87] (WO2022/098615)

[30] US (63/109,263) 2020-11-03

[21] **3,199,446**
[13] A1

[51] **Int.Cl. E01C 19/50 (2006.01) E01C 11/22 (2006.01) E01C 19/00 (2006.01) E01F 5/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR FORMING A RECESSED RAIL TRENCH**

[54] **PROCEDE ET APPAREIL DE FORMATION D’UNE TRANCHEE DE RAIL EN RETRAIT**

[72] BANCROFT, GEORGE, US

[71] ABT, INC., US

[85] 2023-04-21

[86] 2021-10-25 (PCT/US2021/056493)

[87] (WO2022/087532)

[30] US (63/105,113) 2020-10-23

[21] **3,199,447**
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) A61K 47/68 (2017.01)**

[25] EN

[54] **FUSIONS WITH CD8 ANTIGEN BINDING MOLECULES FOR MODULATING IMMUNE CELL FUNCTION**

[54] **FUSIONS AVEC DES MOLECULES DE LIAISON A L’ANTIGENE CD8 POUR MODULER LA FONCTION DE CELLULES IMMUNITAIRES**

[72] YEUNG, YIK ANDY, US

[72] DJURETIC, IVANA, US

[72] BESSETTE, PAUL, US

[72] CHEN, WEI, US

[72] CHIN, SHERMAN MICHAEL, US

[72] MOYNIHAN, KELLY DARE, US

[72] NGUYEN, HENRY C., US

[72] NI, IRENE, US

[72] PAPPAS, DANIELLE C., US

[72] PARK, TERRENCE, US

[71] ASHER BIOTHERAPEUTICS, INC., US

[85] 2023-04-21

[86] 2021-10-22 (PCT/US2021/056312)

[87] (WO2022/087458)

[30] US (63/105,162) 2020-10-23

[30] US (63/121,663) 2020-12-04

[30] US (63/190,669) 2021-05-19

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[13] A1

[51] **Int.Cl. F25J 1/00 (2006.01)**
[25] EN
[54] **COMPACT SYSTEM AND METHOD FOR THE PRODUCTION OF LIQUEFIED NATURAL GAS**
[54] **SYSTEME COMPACT ET PROCEDE POUR LA PRODUCTION DE GAZ NATUREL LIQUEFIE**
[72] VAN DE LISDONK, CAROLUS ANTONIUS CORNELIS, NL
[72] KEVENAAR, MARK ANTONIUS, NL
[72] TAIWO, SAHEED OLUKAYODE STEVEN, NG
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2023-04-21
[86] 2021-10-12 (PCT/EP2021/078096)
[87] (WO2022/089930)
[30] EP (20203750.3) 2020-10-26

[21] **3,199,451**
[13] A1

[51] **Int.Cl. B01J 2/22 (2006.01) B02C 4/08 (2006.01) B02C 4/44 (2006.01) B30B 11/18 (2006.01)**
[25] EN
[54] **PROCESS FOR COMMINUTING FERTILIZER FLAKE IN ONE TWO-ROLLER MILL**
[54] **PROCEDE DE CONCASSAGE DE GALETTES D'ENGRAIS DANS UN BROYEUR A DEUX ROULEAUX**
[72] WINTER-PIETRUCK, AGNES, DE
[72] HEINICKE, FELIX, DE
[72] PFEIFER, MARCEL, DE
[72] DE WELDIGE, EGGERT, DE
[71] MASCHINENFABRIK KOPPERN GMBH & CO. KG, DE
[85] 2023-04-21
[86] 2021-11-09 (PCT/EP2021/081126)
[87] (WO2022/111990)
[30] DE (10 2020 131 638.0) 2020-11-30

[21] **3,199,453**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **ANTI-TUMOUR RESPONSES TO CYTOKERATINS**
[54] **REPONSES ANTITUMORALES A DES CYTOKERATINES**
[72] DURRANT, LINDA GILLIAN, GB
[72] BRENTVILLE, VICTORIA ANNE, GB
[72] COOK, KATHERINE, GB
[72] SYMONDS, PETER, GB
[71] SCANCELL LIMITED, GB
[85] 2023-04-21
[86] 2021-11-22 (PCT/EP2021/082541)
[87] (WO2022/106696)
[30] GB (2018395.0) 2020-11-23

[21] **3,199,455**
[13] A1

[51] **Int.Cl. G02C 7/02 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **OPHTHALMIC LENS INCLUDING A PERIPHERAL ZONE HAVING AN ADD-POWER OFFSET AND A SPATIALLY-MODULATED OPTICAL PARAMETER**
[54] **LENTILLE OPHTALMIQUE COMPRENANT UNE ZONE PERIPHERIQUE AYANT UN DECALAGE DE PUISSANCE AJOUTEE ET UN PARAMETRE OPTIQUE MODULE SPATIALEMENT**
[72] HOVINGA, KRISTEN, US
[72] MUSLEH, MOHAMMAD, US
[72] XU, MENGCHEN, US
[71] BAUSCH + LOMB IRELAND LIMITED, IE
[85] 2023-04-21
[86] 2021-11-03 (PCT/IB2021/000819)
[87] (WO2022/096932)
[30] US (17/089,233) 2020-11-04

[21] **3,199,456**
[13] A1

[51] **Int.Cl. G10L 15/065 (2013.01) G10L 15/04 (2013.01) G10L 15/16 (2006.01) G10L 15/26 (2006.01)**
[25] EN
[54] **EMBEDDED DICTATION DETECTION**
[54] **DETECTION INTEGREE DE DICTEE**
[72] SCHAAF, THOMAS, US
[72] BAYESTEHTASHK, ALIREZA, US
[72] FUHS, MARK C., US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2023-04-21
[86] 2021-10-19 (PCT/IB2021/059618)
[87] (WO2022/084851)
[30] US (63/198,474) 2020-10-21

[21] **3,199,457**
[13] A1

[51] **Int.Cl. F16K 15/14 (2006.01) E03C 1/22 (2006.01) E03C 1/298 (2006.01) F16K 27/02 (2006.01) F16L 15/02 (2006.01) F16L 15/04 (2006.01)**
[25] EN
[54] **AN IMPROVED DUCKBILL TYPE VALVE**
[54] **SOUPAPE DE TYPE BEC DE CANARD AMELIOREE**
[72] GIURGIU, GABRIEL IOAN, NZ
[72] HAYNES, ANDREW LEO, NZ
[72] SUMNER, MICHAEL JOHN, NZ
[71] LAKE PRODUCTS LIMITED, NZ
[85] 2023-04-21
[86] 2021-10-21 (PCT/IB2021/059744)
[87] (WO2022/084927)
[30] NZ (769214) 2020-10-21

[21] **3,199,458**
[13] A1

[51] **Int.Cl. E21B 10/38 (2006.01)**
[25] EN
[54] **DRILLING BIT**
[54] **TREPAN DE FORAGE**
[72] OTA, HIROSHI, JP
[72] MATSUSE, TAIYO, JP
[72] IOKA, SATOSHI, JP
[72] DEATJIRAKARJORNSAKUN, THANAKRIT, JP
[71] MMC RYOTEC CORPORATION, JP
[85] 2023-04-21
[86] 2021-10-19 (PCT/JP2021/038580)
[87] (WO2022/091865)
[30] JP (2020-180553) 2020-10-28

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[21] **3,199,460**
[13] A1

[51] **Int.Cl. H01M 50/572 (2021.01) H01M 50/178 (2021.01) H01M 50/186 (2021.01) H01M 50/193 (2021.01)**

[25] EN

[54] **POUCH-SHAPED BATTERY CELL HAVING SAFETY ELEMENT PROVIDED BETWEEN ELECTRODE LEAD AND LEAD FILM**

[54] **ELEMENT DE BATTERIE DE TYPE POCHE COMPRENANT UN ELEMENT DE SECURITE ENTRE UN CONDUCTEUR D'ELECTRODE ET UN FILM DE CONDUCTEUR**

[72] KANG, GYUNG SOO, KR
[72] LEE, JAE HO, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2023-04-21
[86] 2022-08-26 (PCT/KR2022/012785)
[87] (WO2023/038338)
[30] KR (10-2021-0121677) 2021-09-13

[21] **3,199,461**
[13] A1

[51] **Int.Cl. G01N 21/63 (2006.01) G01N 21/62 (2006.01) G01N 21/64 (2006.01) G01N 33/68 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR SAMPLE PROCESS SCALING**

[54] **SYSTEMES ET PROCEDES POUR LA MISE A L'ECHELLE DE PROCESSUS D'ECHANTILLONNAGE**

[72] KABIRI, ALI, US
[72] REARICK, TODD, US
[72] SCHMID, GERARD, US
[72] PRESTON, KYLE, US
[71] QUANTUM-SI INCORPORATED, US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/056286)
[87] (WO2022/087438)
[30] US (63/105,185) 2020-10-23
[30] US (63/151,317) 2021-02-19

[21] **3,199,462**
[13] A1

[51] **Int.Cl. A61K 47/24 (2006.01) A61K 9/51 (2006.01) A61K 47/42 (2017.01)**

[25] EN

[54] **HYDROPHOBIC DRUGS IN ORGANIC CORE HIGH DENSITY LIPOPROTEIN (HDL) NANOPARTICLES**

[54] **MEDICAMENTS HYDROPHOBES DANS DES NANOPARTICULES DE LIPOPROTEINE HAUTE DENSITE (HDL) A NOYAU ORGANIQUE**

[72] HENRICH, STEPHEN E., US
[72] RINK, JONATHAN S., US
[72] LIN, ADAM Y., US
[72] THAXTON, C. SHAD, US
[72] GORDON, LEO I., US
[72] NGUYEN, SONBINH T., US
[72] ROSEN, STEVEN T., US
[72] HORNE, DAVID, US
[72] ZHANG, XU HANNAH, US
[71] NORTHWESTERN UNIVERSITY, US
[71] CITY OF HOPE, US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/056302)
[87] (WO2022/087452)
[30] US (63/105,206) 2020-10-23

[21] **3,199,463**
[13] A1

[25] EN

[54] **COMPUTATIONAL CARDIAC DEPolarIZATION AND REPolarIZATION SIMULATION LIBRARY MAPPING FOR NON-INVASIVE ARRHYTHMIA RISK STRATIFICATION**

[54] **CARTOGRAPHIE INFORMATIQUE DE DEPolarISATION CARDIAQUE ET DE SIMULATION DE REPolarISATION POUR STRATIFICATION DE RISQUE D'ARYTHMIE NON INVASIVE**

[72] VILLONGCO, CHRISTOPHER, US
[72] KRUMMEN, DAVID, US
[72] HOFFMAYER, KURT, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[71] VEKTOR MEDICAL, INC., US
[85] 2023-04-21
[86] 2021-10-22 (PCT/US2021/056311)
[87] (WO2022/087457)
[30] US (63/104,930) 2020-10-23

[21] **3,199,464**
[13] A1

[51] **Int.Cl. H02J 7/04 (2006.01) H02J 7/06 (2006.01) H04B 7/00 (2006.01) H04N 5/44 (2011.01)**

[25] EN

[54] **PORTABLE CHARGING SYSTEM WITH NETWORK CAPABILITIES**

[54] **SYSTEME DE CHARGE PORTABLE A CAPACITES DE RESEAU**

[72] ABUGHAZALEH, SHADI ALEX, US
[72] BARES, RYAN, US
[72] BAILEY, CHRISTOPHER LANE, US
[71] HUBBELL INCORPORATED, US
[71] ABUGHAZALEH, SHADI ALEX, US
[71] BARES, RYAN, US
[71] BAILEY, CHRISTOPHER LANE, US
[85] 2023-04-23
[86] 2021-10-22 (PCT/US2021/056276)
[87] (WO2022/087429)
[30] US (63/104,767) 2020-10-23

[21] **3,199,465**
[13] A1

[51] **Int.Cl. B65D 71/50 (2006.01)**

[25] EN

[54] **CONTAINER CARRIER**

[54] **PORTE-RECIPIENTS**

[72] SLOVIK, RACHELL L., US
[72] SAMARAS, CHRISTOPHER J., US
[72] OLSEN, ROBERT C., US
[72] CZARNECKI, MICHAEL P., US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2023-04-24
[86] 2021-10-20 (PCT/US2021/055820)
[87] (WO2022/093593)
[30] US (63/105,433) 2020-10-26
[30] US (17/504,624) 2021-10-19

Demandes PCT entrant en phase nationale

[21] **3,199,467**
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**
[25] EN
[54] **BEVERAGE MACHINE WITH NON-ISOLATED POWER SUPPLY FOR LIQUID CONTACTING COMPONENTS**
[54] **MACHINE A BOISSONS A ALIMENTATION ELECTRIQUE NON ISOLEE POUR COMPOSANTS EN CONTACT AVEC UN LIQUIDE**
[72] CHEUNG, DAVID NAI-ZHI, US
[72] BAKRE, SHASHANK SHASHIKANT, US
[71] KEURIG GREEN MOUNTAIN, INC., US
[85] 2023-04-24
[86] 2021-10-26 (PCT/US2021/056652)
[87] (WO2022/093821)
[30] US (63/106,808) 2020-10-28

[21] **3,199,469**
[13] A1

[51] **Int.Cl. A61B 5/055 (2006.01) G16H 30/20 (2018.01) G16H 30/40 (2018.01)**
[25] EN
[54] **NEUROMELANIN-SENSITIVE MRI AND METHODS OF USE THEREOF**
[54] **IRM SENSIBLE A LA NEUROMELANINE ET METHODES D'UTILISATION ASSOCIEES**
[72] CLARK, SAMUEL, US
[72] CASSIDY, CLIFFORD, CA
[72] ROSA-NETO, PEDRO, CA
[72] WENGLER, KENNETH, US
[72] HORGA HERNANDEZ, GUILLERMO, US
[71] TERRAN BIOSCIENCES, INC., US
[71] UNIVERSITY OF OTTAWA INSTITUTE OF MENTAL HEALTH RESEARCH, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[71] TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[71] THE RESEARCH FOUNDATION FOR MENTAL HYGIENE, INC., US
[85] 2023-04-24
[86] 2021-11-16 (PCT/US2021/059590)
[87] (WO2022/104288)
[30] US (63/114,304) 2020-11-16
[30] US (63/120,105) 2020-12-01
[30] US (63/277,490) 2021-11-09

[21] **3,199,470**
[13] A1

[51] **Int.Cl. D21F 1/00 (2006.01) D03D 13/00 (2006.01)**
[25] EN
[54] **ENDLESS WOVEN DRYER FABRIC FOR PAPERMAKING MACHINE**
[54] **TISSU DE SECHOIR TISSE SANS FIN POUR MACHINE A FABRIQUER LE PAPIER**
[72] POSTL, FRIEDRICH, US
[72] HAIDEN, KLAUS, US
[71] HUYCK LICENSCO INC., US
[85] 2023-04-24
[86] 2021-12-01 (PCT/US2021/061328)
[87] (WO2022/132429)
[30] US (63/126,166) 2020-12-16

[21] **3,199,471**
[13] A1

[51] **Int.Cl. B23K 26/08 (2014.01) C21D 1/09 (2006.01) C21D 9/34 (2006.01)**
[25] EN
[54] **METHOD FOR LASER HARDENING A SUBSTANTIALLY CYLINDRICAL SURFACE OF A WORKPIECE**
[54] **PROCEDE DE DURCISSEMENT PAR LASER D'UNE SURFACE CYLINDRIQUE D'UNE PIECE**
[72] FIMBINGER, JOHANN, AT
[71] FIMBINGER, JOHANN, AT
[85] 2023-04-24
[86] 2021-07-16 (PCT/EP2021/070010)
[87] (WO2022/083907)
[30] DE (10 2020 127 991.4) 2020-10-23

[21] **3,199,472**
[13] A1

[51] **Int.Cl. A61K 31/427 (2006.01) A61K 31/4706 (2006.01) A61K 31/497 (2006.01) A61K 31/513 (2006.01) A61K 31/7052 (2006.01) A61K 31/7056 (2006.01) A61K 31/706 (2006.01) A61K 38/21 (2006.01) A61K 45/06 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **ATR INHIBITORS FOR USE IN THE TREATMENT OF VIRAL INFECTIONS**
[54] **INHIBITEURS D'ATR DESTINES A ETRE UTILISES DANS LE TRAITEMENT D'INFECTIONS VIRALES**
[72] BETZ, ULRICH, DE
[72] FUCHSS, THOMAS, DE
[71] MERCK PATENT GMBH, DE
[85] 2023-04-24
[86] 2021-10-22 (PCT/EP2021/079300)
[87] (WO2022/090063)
[30] EP (20203798.2) 2020-10-26
[30] EP (21154343.4) 2021-01-29

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[13] A1

[51] **Int.Cl. G06Q 20/34 (2012.01) G06Q 20/20 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **EXPEDITED PROCESSING OF ELECTRONIC PAYMENT TRANSACTIONS**
[54] **TRAITEMENT ACCELERÉ DE TRANSACTIONS DE PAIEMENT ÉLECTRONIQUE**
[72] TERRA, DAVID, US
[72] HAN, KOUN, US
[72] WHITE, MICHAEL WELLS, US
[71] BLOCK, INC., US
[22] 2017-06-29
[41] 2018-01-04
[62] 3,027,611
[30] US (15/197,708) 2016-06-29
[30] US (15/197,711) 2016-06-29

[21] **3,198,238**
[13] A1

[25] EN
[54] **HYDRO-METHANOL EXTRACTION OF PSYCHOACTIVE COMPOUNDS FROM FUNGUS**
[54] **EXTRACTION A L'HYDROMÉTHANOL DE COMPOSÉS PSYCHOACTIFS DE CHAMPIGNONS**
[72] LIGHTBURN, BENJAMIN, CA
[72] MOSS, RYAN, CA
[72] RANKEN, LISA, CA
[71] PSILO SCIENTIFIC LTD., CA
[22] 2021-06-16
[41] 2021-12-23
[62] 3,163,795
[30] US (63/040,317) 2020-06-17
[30] US (63/046,089) 2020-06-30
[30] CA (3088384) 2020-07-29
[30] CA (3089455) 2020-08-07

[21] **3,198,239**
[13] A1

[25] EN
[54] **INFUSION SET WITH SAFETY DEVICE**
[54] **PERFUSION D'INSULINE AVEC DISPOSITIF DE SÉCURITÉ**
[72] HWANG, CHARLES, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2013-10-01
[41] 2014-04-05
[62] 3,111,543
[30] US (13/646,582) 2012-10-05

[21] **3,198,255**
[13] A1

[51] **Int.Cl. C07K 14/725 (2006.01) C07K 14/705 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **CTLA-4 VARIANT IMMUNOMODULATORY PROTEINS AND USES THEREOF**
[54] **PROTEINES IMMUNOMODULATRICES DE VARIANTES DE CTLA-4 ET LEURS UTILISATIONS**
[72] EVANS, LAWRENCE, US
[72] KUIJPER, JOSEPH L., US
[72] SWANSON, RYAN, US
[71] ALPINE IMMUNE SCIENCES, INC., US
[22] 2018-10-09
[41] 2019-04-18
[62] 3,077,509
[30] US (62/570,619) 2017-10-10
[30] US (62/613,379) 2018-01-03
[30] US (62/733,615) 2018-09-19

[21] **3,198,271**
[13] A1

[51] **Int.Cl. A61L 9/03 (2006.01)**
[25] EN
[54] **SCENT DISPENSATION**
[54] **DISTRIBUTION DE PARFUM**
[72] JONES, BRIAN AARON, US
[72] LIMA, BRUNO MIRANDA, US
[72] STAPLER, RICHARD NATHANIAL, III, US
[71] PURA SCENTS, INC., US
[22] 2016-11-02
[41] 2017-05-11
[62] 3,133,703
[30] US (63/019,282) 2020-05-02
[30] US (62/249,917) 2015-11-02
[30] US (62/278,913) 2016-01-14
[30] US (62/278,894) 2016-01-14
[30] US (62/279,005) 2016-01-15
[30] US (62/279,508) 2016-01-15
[30] US (62/279,316) 2016-01-15
[30] US (62/279,747) 2016-01-16
[30] US (62/279,745) 2016-01-16
[30] US (62/279,748) 2016-01-16
[30] US (62/279,698) 2016-01-16
[30] US (62/279,767) 2016-01-17
[30] US (62/279,766) 2016-01-17

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[21] **3,198,273**
[13] A1

[25] EN
[54] **IMPROVED SYSTEMS AND METHODS FOR MEDICINE DELIVERY**
[54] **SYSTEMES ET PROCEDES AMELIORES D'ADMINISTRATION DE MEDICAMENT**
[72] KNAPP, KEITH, US
[72] MCCAFFREY, NEIL, US
[72] BUTTERBRODT, JAY, US
[72] TAYLOR, MARGARET, US
[72] MARKOWITZ, RUTH, US
[72] SEARLE, GARY, US
[72] GIBNEY, MICHAEL, US
[72] SALEMME, JAMES, US
[72] WALKER, JAMES, US
[72] SULLIVAN, SEAN, US
[72] ELGIN, ERNEST, US
[72] SALTIEL-BERZIN, RITA, US
[71] BECTON, DICKINSON AND COMPANY, US
[22] 2015-10-20
[41] 2016-04-28
[62] 3,120,567
[30] US (62/066,351) 2014-10-20

[21] **3,198,282**
[13] A1

[25] EN
[54] **METHOD OF DETECTING LUNG CANCER**
[54] **METHODE DE DETECTION DU CANCER DU POUMON**
[72] BUX, RASHID, CA
[72] SITAR, DANIEL, CA
[71] BIOMARK CANCER SYSTEMS INC., CA
[22] 2016-06-27
[41] 2016-12-29
[62] 3,029,063
[30] US (62/185,213) 2015-06-26

[21] **3,198,302**
[13] A1

[25] EN
[54] **PLASMA SOURCE AND METHOD FOR REMOVING MATERIALS FROM SUBSTRATES UTILIZING PRESSURE WAVES**
[54] **SOURCE DE PLASMA ET PROCEDE D'ELIMINATION DE MATERIAUX DANS DES SUBSTRATS AU MOYEN D'ONDES DE PRESSION**
[72] YANCEY, PETER JOSEPH, US
[71] AP SOLUTIONS, INC., US
[22] 2010-02-08
[41] 2010-08-12
[62] 2,751,709
[30] US (61/150,795) 2009-02-08

[21] **3,198,315**
[13] A1

[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED SINOGRAM COMPLETION, COMBINATION, AND COMPLETION BY COMBINATION**
[54] **SYSTEMES ET PROCEDES D'ETABLISSEMENT, DE COMBINAISON ET D'ETABLISSEMENT PAR COMBINAISON AUTOMATISES DE SINOGRAMMES**
[72] MEGANCK, JEFF, US
[72] FRENKEL, MICHAEL, US
[72] KATSEVICH, ALEXANDER, US
[71] PERKINELMER HEALTH SCIENCES, INC., US
[71] ITOMOGRAPHY CORP., US
[71] UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC., US
[22] 2017-06-05
[41] 2017-12-14
[62] 3,026,951
[30] US (62/346,090) 2016-06-06

[21] **3,198,326**
[13] A1

[25] EN
[54] **BEAM-STEERING DEVICE PARTICULARLY FOR LIDAR SYSTEMS**
[54] **DISPOSITIF DE POINTAGE DE FAISCEAU, EN PARTICULIER POUR DES SYSTEMES LIDAR**
[72] OLIVIER, PIERRE, CA
[71] LEDDARTECH INC., CA
[22] 2021-07-21
[41] 2021-10-06
[62] 3,125,623
[30] US (63/054,634) 2020-07-21
[30] US (63/136,765) 2021-01-13

[21] **3,198,337**
[13] A1

[25] EN
[54] **WHEELED CHAIR**
[54] **FAUTEUIL ROULANT**
[72] PAUL, ANISH, US
[72] CHILDS, WILLIAM D., US
[72] BIRMAN, STEVEN L., US
[72] SCHNEIDER, MARK A., US
[72] AREND, JOHN MICHAEL, US
[71] STRYKER CORPORATION, US
[22] 2012-11-27
[41] 2013-05-30
[62] 3,130,479
[30] US (61/563,823) 2011-11-27
[30] US (61/701,555) 2012-09-14

[21] **3,198,345**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS USING OPTICAL FIBER INTERFEROMETRY**
[54] **PROCEDES ET SYSTEMES UTILISANT L'INTERFEROMETRIE A FIBRE OPTIQUE**
[72] HULL, JOHN, CA
[72] JALILIAN, SEYED EHSAN, CA
[71] HIFI ENGINEERING INC., CA
[22] 2016-05-19
[41] 2016-11-24
[62] 2,986,451
[30] US (62/165,073) 2015-05-21

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[21] **3,198,349**
[13] A1

[25] EN
[54] **METHODS AND APPARATUSES FOR HARVESTING WATER FROM AIR**
[54] **PROCEDES ET APPAREILS PERMETTANT DE COLLECTER L'EAU A PARTIR DE L'AIR**
[72] BOUDREAU, RICHARD, CA
[71] AWN NANOTECH INC., CA
[22] 2018-11-13
[41] 2019-05-16
[62] 3,119,547
[30] US (62/585,348) 2017-11-13

[21] **3,198,364**
[13] A1

[51] **Int.Cl. A61L 2/10 (2006.01)**
[25] EN
[54] **TARGETED SURFACE DISINFECTION SYSTEM WITH PULSED UV LIGHT**
[54]
[72] RAMANAND, PRAKASH VALENTINO, CA
[72] DHILLON, MANJINDER SINGH, CA
[72] STEINHOFF, ADAM RAY, CA
[72] MENON, VINOD K., US
[71] ANGELICA HOLDINGS LLC, US
[22] 2016-04-12
[41] 2016-10-20
[62] 3,111,938
[30] US (62/146,299) 2015-04-12
[30] US (15/095,212) 2016-04-11

[21] **3,198,374**
[13] A1

[25] EN
[54] **ANTIMICROBIAL SOAPS CONTAINING CARVACROL AND METHODS OF USING SAME**
[54]
[72] DYCK, MANFRED F., US
[72] VON DYCK, SILKE, US
[72] BECKTEL, ERIC, US
[72] GRIGORIAN, IRINA, US
[71] HYDROMER, INC., US
[22] 2015-09-09
[41] 2016-03-17
[62] 2,960,813
[30] US (62/048,100) 2014-09-09

[21] **3,198,424**
[13] A1

[25] EN
[54] **STRUCTURED SUBSTRATES FOR IMPROVING DETECTION OF LIGHT EMISSIONS AND METHODS RELATING TO THE SAME**
[54] **SUBSTRATS STRUCTURES PERMETTANT D'AMELIORER LA DETECTION DES EMISSIONS DE LUMIERE ET PROCEDES SE RAPPORTANT A CES DERNIERS**
[72] BOWEN, SHANE M., US
[72] VENKATESAN, MURALI BALA, US
[72] HAN, HUI, US
[72] PARK, RYUL SANG, US
[71] ILLUMINA, INC, US
[22] 2014-12-23
[41] 2015-07-02
[62] 2,933,548
[30] US (61/920,244) 2013-12-23

[21] **3,198,469**
[13] A1

[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
[71] SAILRAIL AUTOMATED SYSTEMS INC., CA
[22] 2015-05-28
[41] 2015-11-28
[62] 2,893,157
[30] US (62/003,995) 2014-05-28

[21] **3,198,484**
[13] A1

[25] EN
[54] **FEATURE PROCESSING TRADEOFF MANAGEMENT**
[54] **GESTION DE COMPROMIS POUR UN TRAITEMENT DE CARACTERISTIQUES**
[72] DIRAC, LEO PARKER, US
[72] CORREA, NICOLLE M., US
[72] DANNAKER, CHARLES ERIC, US
[72] INGERMAN, ALEKSANDR MIKHAYLOVICH, US
[72] KRISHNAN, SRIRAM, US
[72] LI, JIN, US
[72] PUVVADI, SUDHAKAR RAO, US
[72] ZARANDIOON, SAMAN, 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
[72] LEE, POLLY PO YEE, US
[71] AMAZON TECHNOLOGIES, INC., US
[22] 2015-06-30
[41] 2016-01-07
[62] 2,953,817
[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

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[21] **3,198,521**
[13] A1

[51] **Int.Cl. H04B 5/02 (2006.01) H04B
1/40 (2015.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR
PROGRAMMING PLUGGABLE
TRANSCIEVERS**
[54] **SYSTEME ET PROCEDE DE
PROGRAMMATION
D'EMETTEURS-RECEPTEURS
ENFICHABLES**
[72] HARNEY, GORDON, CA
[71] FONEX DATA SYSTEMS INC., CA
[22] 2018-01-11
[41] 2018-08-30
[62] 3,054,650
[30] US (62/463,296) 2017-02-24

[21] **3,198,537**
[13] A1

[25] EN
[54] **MARINE VIBRATOR DIRECTIVE
SOURCE SURVEY**
[54] **ETUDE PAR SOURCE
DIRECTIONNELLE A
VIBRATEUR MARIN**
[72] HALLIDAY, DAVID FRASER, GB
[72] HOPPERSTAD, JON-FREDRIK, GB
[72] LAWS, ROBERT MONTGOMERY,
GB
[71] REFLECTION MARINE NORGE AS,
NO
[22] 2016-05-02
[41] 2016-11-10
[62] 2,984,786
[30] US (62/155,535) 2015-05-01
[30] US (62/213,046) 2015-09-01
[30] US (62/213,064) 2015-09-01

[21] **3,198,541**
[13] A1

[25] EN
[54] **POLYOLEFIN PRODUCTION
WITH CHROMIUM-BASED
CATALYSTS**
[54] **PRODUCTION DE
POLYOLEFINES AVEC DES
CATALYSEURS A BASE DE
CHROME**
[72] GROSS, KEVIN R., US
[72] CANN, KEVIN J., US
[72] GOODE, MARK G., US
[72] MOORHOUSE, JOHN H., US
[71] UNIVATION TECHNOLOGIES LLC,
US
[22] 2015-09-01
[41] 2016-03-10
[62] 2,959,524
[30] US (62/044,751) 2014-09-02

[21] **3,198,581**
[13] A1

[25] EN
[54] **SECURED POWER AND DATA
COMMUNICATIONS FOR
AIRCRAFT COUPLED TO
GROUND SYSTEMS**
[54] **COMMUNICATIONS DE
DONNEES ET ALIMENTATION
ELECTRIQUE SECURISEES D'UN
AERONEF COUPLEES A DES
SYSTEMES AU SOL**
[72] LEWIS, LARRY L., US
[72] MITCHELL, TIMOTHY M., US
[71] THE BOEING COMPANY, US
[22] 2018-01-31
[41] 2018-10-26
[62] 2,993,699
[30] US (15/497,968) 2017-04-26

[21] **3,198,582**
[13] A1

[25] EN
[54] **VENTILATION MASK**
[54] **MASQUE DE VENTILATION**
[72] PEDRO, MICHAEL J., US
[72] CATALDO, STEVEN H., US
[72] KANE, DAVID M., US
[72] REILLY, THOMAS, US
[72] REDFORD, RYAN G., US
[71] REVOLUTIONARY MEDICAL
DEVICES, INC., US
[22] 2016-06-10
[41] 2016-12-15
[62] 2,988,785
[30] US (62/174,410) 2015-06-11
[30] US (62/204,899) 2015-08-13
[30] US (62/245,810) 2015-10-23
[30] US (62/245,794) 2015-10-23
[30] US (62/253,528) 2015-11-10
[30] US (62/253,520) 2015-11-10
[30] US (62/253,512) 2015-11-10
[30] US (62/255,120) 2015-11-13
[30] US (62/286,165) 2016-01-22
[30] US (62/298,265) 2016-02-22
[30] US (62/298,295) 2016-02-22
[30] US (62/301,359) 2016-02-29
[30] US (62/308,127) 2016-03-14
[30] US (62/319,686) 2016-04-07
[30] US (62/324,197) 2016-04-18

[21] **3,198,597**
[13] A1

[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
[71] CHILDREN'S MEDICAL CENTER
CORP., US
[22] 2009-07-16
[41] 2010-01-21
[62] 2,730,928
[30] US (61/081,080) 2008-07-16

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<p>[21] 3,198,598 [13] A1</p>	<p>[21] 3,198,664 [13] A1</p>	<p>[21] 3,198,698 [13] A1</p>
<p>[25] EN [54] CLOSED LOOP CONTROL OF PHYSIOLOGICAL GLUCOSE REGULATION EN BOUCLE FERMEE DE GLUCOSE PHYSIOLOGIQUE [72] HAIDAR, AHMAD MOHAMAD, US [71] ELI LILLY AND COMPANY, US [22] 2018-05-03 [41] 2018-11-08 [62] 3,059,985 [30] US (62/501,976) 2017-05-05 [30] US (62/536,541) 2017-07-25</p>	<p>[25] EN [54] RAPID, HIGH DYNAMIC RANGE IMAGE ACQUISITION WITH A CHARGE-COUPLED DEVICE (CCD) CAMERA [54] ACQUISITION D'IMAGE A GRANDE GAMME DYNAMIQUE ET RAPIDE AVEC UNE CAMERA A DISPOSITIF A TRANSFERT DE CHARGE (DTC) [72] BEHROOZ, ALI, US [72] HURLEY, WILLIAM, US [72] FAQIR, ILIAS, US [71] PERKINELMER HEALTH SCIENCES, INC., US [22] 2018-10-18 [41] 2019-04-25 [62] 3,079,400 [30] US (62/574,043) 2017-10-18 [30] US (16/163,094) 2018-10-17</p>	<p>[25] EN [54] DEVICES AND SYSTEM FOR CHANNELING AND AUTOMATIC MONITORING OF FLUID FLOW IN FLUID DISTRIBUTION SYSTEMS [54] DISPOSITIFS ET SYSTEME A DES FINS DE CANALISATION ET DE SURVEILLANCE AUTOMATIQUE DE L'ECOULEMENT DE FLUIDE DANS DES SYSTEMES DE DISTRIBUTION DE FLUIDE [72] LEADERS, JEFFREY L., US [72] SMITH, MATTHEW SHANE, US [72] MESS, FRANCIS M., US [72] ELIA, SAMUEL, US [72] ALMIRALL, JORGE G., US [72] GESTNER, BRIAN, US [71] STREAMLABS, INC., US [22] 2015-08-14 [41] 2016-02-18 [62] 2,960,959 [30] US (62/037,511) 2014-08-14</p>
<p>[21] 3,198,605 [13] A1</p>	<p>[21] 3,198,673 [13] A1</p>	<p>[21] 3,198,714 [13] A1</p>
<p>[25] EN [54] VIRTUALIZING OBJECTS USING OBJECT MODELS AND OBJECT POSITION DATA [54] VIRTUALISATION D'OBJETS A L'AIDE DE MODELES D'OBJETS ET DE DONNEES DE POSITION D'OBJETS [72] SHEFFIELD, MASON E., US [72] SHABTAI, JOSH, US [71] LOWE'S COMPANIES, INC., US [22] 2018-12-12 [41] 2019-06-20 [62] 3,085,428 [30] US (15/840,567) 2017-12-13</p>	<p>[25] EN [54] EXPRESS TRACKING FOR PATIENT FLOW MANAGEMENT IN A DISTRIBUTED ENVIRONMENT [54] SUIVI EXPRESS DE GESTION DE FLUX DE PATIENTS DANS UN ENVIRONNEMENT DISTRIBUE [72] DEMICK, MICHAEL, US [72] WRIGHT, MARK, US [71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US [22] 2019-10-30 [41] 2020-05-07 [62] 3,114,954 [30] US (62/752,723) 2018-10-30</p>	<p>[25] EN [54] DEEP BRAIN STIMULATOR AND METHOD OF USE [54] DISPOSITIF DE STIMULATION CEREBRALE PROFONDE ET SON PROCEDE D'UTILISATION [72] STROTHER, ROBERT B., US [72] RUBIN, STUART, US [72] SAKAI, JONATHAN, US [71] DEEP BRAIN INNOVATIONS LLC, US [22] 2014-05-22 [41] 2014-11-27 [62] 2,916,241 [30] US (61/826,361) 2013-05-22 [30] US (61/826,388) 2013-05-22 [30] US (61/826,384) 2013-05-22</p>
<p>[21] 3,198,619 [13] A1</p>		
<p>[25] EN [54] IMAGE ANALYSIS AND MEASUREMENT OF BIOLOGICAL SAMPLES [54] ANALYSE D'IMAGE ET MESURE D'ECHANTILLONS BIOLOGIQUES [72] PANGARKAR, CHINMAY, US [72] MOHAN, KARAN, US [72] WASSON, JAMES R., US [71] THERANOS IP COMPANY, LLC, US [22] 2013-07-25 [41] 2014-01-30 [62] 2,878,957 [30] US (61/675,811) 2012-07-25 [30] US (61/676,178) 2012-07-26 [30] US (61/766,116) 2013-02-18 [30] US (61/802,194) 2013-03-15</p>		

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[21] **3,198,738**
[13] A1

[25] EN
[54] **CONNECTED MACHINE INITIATED SERVICE**
[54] **SERVICE DECLENCHE PAR MACHINE CONNECTEE**
[72] STOOPS, DANIEL STEWART, US
[72] KAISER, LIZANNE, US
[72] BELL, CLIFF W., US
[71] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
[22] 2017-06-06
[41] 2017-12-14
[62] 3,109,728
[30] US (15/176,502) 2016-06-08
[30] US (15/176,400) 2016-06-08

[21] **3,198,754**
[13] A1

[25] EN
[54] **A MICROFLUIDIC DEVICE AND METHODS FOR PROCESSING POLYNUCLEOTIDE-CONTAINING SAMPLES**
[54] **UN DISPOSITIF MICROFLUIDIQUE ET SES METHODES POUR LE TRAITEMENT D'ECHANTILLONS CONTENANT DES POLYNUCLEOTIDES**
[72] WU, BETTY, US
[72] ALTHAUS, JOHN S., US
[72] BRAHMASANDRA, SUNDARESH N., US
[72] HANDIQUE, KALYAN, US
[72] PHADKE, NIKHIL, US
[71] HANDYLAB, INC., US
[22] 2005-05-03
[41] 2005-11-17
[62] 2,994,321
[30] US (60/567,174) 2004-05-03
[30] US (60/645,784) 2005-01-21

[21] **3,198,755**
[13] A1

[51] **Int.Cl. A61M 39/22 (2006.01) A61M 39/10 (2006.01) A61M 39/24 (2006.01) A61M 39/26 (2006.01)**
[25] EN
[54] **ZERO REFLUX FEMALE VALVE WITH SMALL PRIMING VOLUME**
[54] **VANNE FEMELLE SANS REFLUX AVEC PETIT VOLUME D'AMORCAGE**
[72] MANSOUR, GEORGE MICHEL, US
[71] CAREFUSION 303, INC., US
[22] 2014-03-11
[41] 2014-10-09
[62] 3,118,642
[30] US (13/801,422) 2013-03-13
[30] US (13/801,412) 2013-03-13
[30] US (13/801,399) 2013-03-13
[30] US (13/829,187) 2013-03-14
[30] US (13/829,227) 2013-03-14
[30] US (14/149,753) 2014-01-07

[21] **3,198,778**
[13] A1

[25] EN
[54] **A METHOD AND SURVEY SERVER FOR PERFORMING A WEB SURVEY BASED ON BEHAVIORAL DATA SPECIFIC TO A WEB PAGE**
[54] **UNE METHODE ET UN SERVEUR DE SONDAGE DESTINES A EXECUTER UN SONDAGE WEB FONDE SUR DES DONNEES COMPORTEMENTALES ASSOCIEES A UNE PAGE WEB**
[72] COCHRANE, LANE, CA
[72] LAROCQUE, AUDRY, CA
[72] BUTLER, MATTHEW, US
[72] ZAKAIB, DEREK, CA
[71] EEMPLIFI, INC., US
[22] 2015-12-14
[41] 2016-07-15
[62] 2,914,898
[30] US (14/597,288) 2015-01-15

[21] **3,198,781**
[13] A1

[25] EN
[54] **PREMIUM THREADED CONNECTION AND METHOD FOR MAKING SAME**
[54] **CONNECTION ET METHODE POUR FAIRE LA MEME**
[72] HRUSCHAK, MILTON, CA
[71] ROTARY CONNECTIONS INTERNATIONAL LTD., CA
[22] 2017-08-31
[41] 2018-09-13
[62] 2,977,964
[30] US (62/470,541) 2017-03-13

[21] **3,198,890**
[13] A1

[51] **Int.Cl. C22C 38/12 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01)**
[25] EN
[54] **HIGH STRENGTH AND HIGH FORMABILITY STEEL SHEET AND MANUFACTURING METHOD**
[54] **TOLE D'ACIER TRES RESISTANTE ET TRES MALLEABLE ET METHODE DE FABRICATION**
[72] MAGAR, CORALIE, FR
[72] ZHU, KANGYING, FR
[72] PERLADE, ASTRID, FR
[71] ARCELORMITTAL, LU
[22] 2017-09-15
[41] 2018-03-29
[62] 3,133,435
[30] IB (PCT/IB2016/001349) 2016-09-22

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[21] 3,198,897 [13] A1	[21] 3,198,931 [13] A1	[21] 3,198,958 [13] A1
<p>[25] EN</p> <p>[54] APPARATUS AND METHOD FOR POINT-OF-CARE, RAPID, FIELD-DEPLOYABLE DIAGNOSTIC TESTING OF COVID-19, VIRUSES, ANTIBODIES AND MARKERS</p> <p>[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</p> <p>[72] SHACHAR, JOSH, US</p> <p>[72] KORNBERG, ROGER, US</p> <p>[71] AUTONOMOUS MEDICAL DEVICES INC., US</p> <p>[22] 2020-11-04</p> <p>[41] 2021-03-19</p> <p>[62] 3,098,079</p> <p>[30] US (16/714,421) 2019-12-13</p> <p>[30] US (16/912,568) 2020-06-25</p> <p>[30] US (17/083,113) 2020-10-28</p>	<p>[25] EN</p> <p>[54] METHODS FOR NON-INVASIVE ASSESSMENT OF GENETIC ALTERATIONS</p> <p>[54] PROCEDES D'EVALUATION NON INVASIVE D'ALTERATIONS GENETIQUE</p> <p>[72] AZAB, MOSTAFA, US</p> <p>[72] SYKES, MICHAEL, US</p> <p>[72] SUN, YOUTING, US</p> <p>[72] MAZLOOM, AMIN, US</p> <p>[72] JENSEN, TAYLOR, US</p> <p>[72] EHRICH, MATHIAS, US</p> <p>[72] ELLISON, CHRISTOPHER, US</p> <p>[71] SEQUENOM, INC., US</p> <p>[22] 2018-01-22</p> <p>[41] 2018-07-26</p> <p>[62] 3,049,682</p> <p>[30] US (62/448,600) 2017-01-20</p> <p>[30] US (62/448,601) 2017-01-20</p>	<p>[25] EN</p> <p>[54] APPLICATION OF ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY IN SENSOR SYSTEMS, DEVICES, AND RELATED METHODS</p> <p>[54] APPLICATION DE SPECTROSCOPIE A IMPEDANCE ELECTROCHIMIQUE DANS DES SYSTEMES DE CAPTEUR, DISPOSITIFS ET PROCEDES ASSOCIES</p> <p>[72] YANG, NING, US</p> <p>[72] GAUTHAM, RAGHAVENDHAR, US</p> <p>[72] LIANG, BRADLEY C., US</p> <p>[72] SHAH, RAJIV, US</p> <p>[72] SZYMAN, CATHERINE M., US</p> <p>[72] MILLER, MICHAEL E., US</p> <p>[72] WANG, JENN-HANN LARRY, US</p> <p>[72] LI, YIWEN, US</p> <p>[72] MORGAN, WAYNE A., US</p> <p>[72] CHEN, PARIS, US</p> <p>[72] MUCIC, ROBERT C., US</p> <p>[72] DE BARROS, GENIVAL D., US</p> <p>[72] CALLIRGOS, CARLOS A., US</p> <p>[72] SIRIGIRI, MANJUNATH, US</p> <p>[72] BRINSON, JOSEPH PAUL, US</p> <p>[71] MEDTRONIC MINIMED, INC., US</p> <p>[22] 2013-05-24</p> <p>[41] 2013-12-12</p> <p>[62] 3,074,852</p> <p>[30] US (61/657,517) 2012-06-08</p> <p>[30] US (61/754,479) 2013-01-18</p> <p>[30] US (61/754,475) 2013-01-18</p> <p>[30] US (61/754,485) 2013-01-18</p> <p>[30] US (61/754,483) 2013-01-18</p> <p>[30] US (61/755,811) 2013-01-23</p> <p>[30] US (13/778,433) 2013-02-27</p> <p>[30] US (13/778,611) 2013-02-27</p> <p>[30] US (13/778,559) 2013-02-27</p> <p>[30] US (13/778,514) 2013-02-27</p> <p>[30] US (13/778,473) 2013-02-27</p> <p>[30] US (13/778,416) 2013-02-27</p> <p>[30] US (13/778,391) 2013-02-27</p> <p>[30] US (13/778,630) 2013-02-27</p>
<p style="text-align: center;">[21] 3,198,903 [13] A1</p> <p>[25] EN</p> <p>[54] APPARATUS AND METHOD FOR POINT-OF-CARE, RAPID, FIELD-DEPLOYABLE DIAGNOSTIC TESTING OF COVID-19, VIRUSES, ANTIBODIES AND MARKERS - AUTOLAB 20</p> <p>[54]</p> <p>[72] SHACHAR, JOSH, US</p> <p>[72] KORNBERG, ROGER, US</p> <p>[71] AUTONOMOUS MEDICAL DEVICES INC., US</p> <p>[22] 2020-11-04</p> <p>[41] 2021-03-19</p> <p>[62] 3,098,079</p> <p>[30] US (16/714,421) 2019-12-13</p> <p>[30] US (16/912,568) 2020-06-25</p> <p>[30] US (17/083,113) 2020-10-28</p>	<p style="text-align: center;">[21] 3,198,936 [13] A1</p> <p>[51] Int.Cl. C12N 15/864 (2006.01) C12N 15/113 (2010.01) C12N 7/01 (2006.01) C12N 15/09 (2006.01)</p> <p>[25] EN</p> <p>[54] AAV-MEDIATED EXPRESSION USING A SYNTHETIC PROMOTER AND ENHANCER</p> <p>[54] EXPRESSION MEDIEE PAR AAV UTILISANT UN PROMOTEUR ET UN ACTIVATEUR SYNTHETIQUES</p> <p>[72] ENGELHARDT, JOHN F., US</p> <p>[72] YAN, ZIYING, US</p> <p>[71] UNIVERSITY OF IOWA RESEARCH FOUNDATION, US</p> <p>[22] 2017-03-07</p> <p>[41] 2017-09-14</p> <p>[62] 3,016,985</p> <p>[30] US (62/304,656) 2016-03-07</p>	

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[21] **3,198,982**
[13] A1

[25] EN
[54] **METHODS AND SYSTEMS FOR PRODUCTION OF DOPED CARBON NANOMATERIALS**
[54] **PROCEDES ET SYSTEMES DE PRODUCTION DE NANOMATERIAUX DE CARBONE DOPES**
[72] LICHT, STUART, US
[71] C2CNT LLC, US
[22] 2018-02-21
[41] 2018-08-30
[62] 3,052,483
[30] US (62/461,641) 2017-02-21

[21] **3,198,984**
[13] A1

[25] EN
[54] **CROSSBOW TRIGGER WITH DECOCKING MECHANISM**
[54] **MECANISME DE DETENTE D'ARBALETE A SURETE DE DESARMEMENT**
[72] MCPHERSON, MATHEW A., US
[72] HAYES, MARK J., US
[72] OZANNE, JEFFREY A., US
[71] MCP IP, LLC, US
[22] 2016-11-10
[41] 2017-05-18
[62] 3,002,828
[30] US (62/254,029) 2015-11-11
[30] US (62/317,350) 2016-04-01
[30] US (15/347,686) 2016-11-09

[21] **3,198,989**
[13] A1

[25] EN
[54] **CROSSBOW TRIGGER WITH DECOCKING MECHANISM**
[54] **MECANISME DE DETENTE D'ARBALETE A SURETE DE DESARMEMENT**
[72] MCPHERSON, MATHEW A., US
[72] HAYES, MARK J., US
[72] OZANNE, JEFFREY A., US
[71] MCP IP, LLC, US
[22] 2016-11-10
[41] 2017-05-18
[62] 3,002,828
[30] US (62/254,029) 2015-11-11
[30] US (62/317,350) 2016-04-01
[30] US (15/347,686) 2016-11-09

[21] **3,199,003**
[13] A1

[51] **Int.Cl. C07J 41/00 (2006.01) A61K 31/56 (2006.01) A61K 31/568 (2006.01) A61P 23/00 (2006.01) A61P 25/08 (2006.01) C07J 3/00 (2006.01)**
[25] EN
[54] **NEUROACTIVE STEROIDS, COMPOSITIONS, AND USES THEREOF**
[54] **STEROIDES NEUROACTIFS, COMPOSITIONS, ET LEURS UTILISATIONS**
[72] MARTINEZ BOTELLA, GABRIEL, US
[72] HARRISON, BOYD L., US
[72] ROBICHAUD, JEAN ALBERT, US
[72] SALITURO, FRANCESCO GERALD, US
[71] SAGE THERAPEUTICS, INC., US
[22] 2014-07-18
[41] 2015-01-22
[62] 2,918,735
[30] US (61/856,592) 2013-07-19

[21] **3,199,102**
[13] A1

[25] EN
[54] **CONNECTED MACHINE INITIATED SERVICE**
[54] **SERVICE DECLENCHE PAR MACHINE CONNECTEE**
[72] STOOPS, DANIEL STEWART, US
[72] KAISER, LIZANNE, US
[72] BELL, CLIFF W., US
[71] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
[22] 2017-06-06
[41] 2017-12-14
[62] 3,109,728
[30] US (15/176,502) 2016-06-08
[30] US (15/176,400) 2016-06-08

[21] **3,199,109**
[13] A1

[25] EN
[54] **CONNECTED MACHINE INITIATED SERVICE**
[54] **SERVICE DECLENCHE PAR MACHINE CONNECTEE**
[72] STOOPS, DANIEL STEWART, US
[72] KAISER, LIZANNE, US
[72] BELL, CLIFF W., US
[71] GENESYS CLOUD SERVICES HOLDINGS II, LLC, US
[22] 2017-06-06
[41] 2017-12-14
[62] 3,109,728
[30] US (15/176,502) 2016-06-08
[30] US (15/176,400) 2016-06-08

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HOOGENDOORN, SETH	3,145,119	LASKAR, WILLIAM JOSEPH	3,181,512	LEUNG, HUGH	3,182,122
HUSAINIE, SYED MUHAMMAD	3,139,549	LASKAR, WILLIAM JOSEPH	3,181,513	LI, CHUNLAI	3,182,208
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INTERNAL MACHINERY SOLUTIONS LTD.	3,154,878	LASKAR, WILLIAM JOSEPH	3,181,521	LIN, CHING-HSIUNG	3,141,213
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JIANG, FAN	3,139,213	LASKAR, WILLIAM JOSEPH	3,181,618	LIVELY, KYLE JAY	3,181,514
JIANG, FAN	3,175,835	LASKAR, WILLIAM JOSEPH	3,181,618	LIVELY, KYLE JAY	3,181,515
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		LEMES DA SILVA, CRISTIANO	3,181,513	LIVELY, KYLE JAY	3,181,658
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		LEMES DA SILVA, CRISTIANO	3,181,515	LIVELY, KYLE JAY	3,181,678
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ARRIS ENTERPRISES LLC	3,196,131	LLC	3,195,882	BAYLESS, PAUL	3,196,312
ARSENAL BIOSCIENCES, INC.	3,196,269	BAKER HUGHES OILFIELD		BAYON THERAPEUTICS, INC.	3,196,120
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ARVINAS OPERATIONS, INC.	3,199,074	BAKER HUGHES OILFIELD		INTERNATIONAL	
AS AMERICA, INC.	3,196,292	OPERATIONS LLC	3,195,379	PRIVATE LIMITED	3,198,901
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ATHANASOPOULOU, EVANGELIA-NEFELI	3,197,687	SHASHIKANT	3,199,467	COMPANY	3,195,777
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FREEMAN, MALLORY	3,196,293	GATZWEILER, ELMAR	3,199,303	GIURGIU, GABRIEL IOAN	3,199,457
FREHNER, HANSPETER	3,198,893	GAUGER, CARL	3,199,099	GIVAUDAN SA	3,198,965
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FRENNESSON, DAVID B.	3,196,059	GAVIN, PAUL	3,195,937	CHRISTOPHER	3,199,229
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FRIEDERICHS, GOETZ	3,198,836	GBS GLOBAL BIOPHARMA,		GLATZ, PATRIK	3,195,986
FRIEDMAN, MEILECH	3,199,077	INC.	3,198,596	GLATZ, PATRIK	3,196,303
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LIU, YE	3,195,967	LUSTIG, HANS	3,196,225	MANAKOU, SIARHEI	3,199,080
LIU, YING-CHIH	3,196,291	LUUKKANEN, PETTERI	3,196,241	MANI, VASANTHAN	3,196,266
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LIU, ZHAN-BIN	3,198,652	LV, BINHUA	3,196,287	ALVARO	3,198,623
LIU, ZHIHUA	3,196,247	LV, DAYU	3,195,456	MANJON FERNANDEZ,	
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