Canadian Intellectual Property Office
An Agency of Industry Canada

Office de la propriété intellectuelle du Canada
Un organisme d'Industrie Canada

ISSN-1712-4034

The Patent Office Record

La Gazette du Bureau des brevets

Vol. 152 No. 15 April 9, 2024

Vol. 152 No. 15 le 9 avril 2024

Canada

CIPO OPIC

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.

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.

Table of Contents
Table des matières

Notices

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

Avis

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'indentification 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**).

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. 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

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. 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.

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.

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. 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.

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. 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.

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. List of Patents Available for Licence or Sale

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

None

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.

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. 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).

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. 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

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

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).

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 57.2*a*)) **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. 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**).

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

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).

(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. Correspondence Procedures

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

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

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

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html

Publication date: May 10, 2017
Amendment date: June 17, 2019

On this page:

14. Procédures de correspondance

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

Lien Web pour le RPBB :
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

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

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html

Date de publication : 10 mai 2017
Date de modification : 17 juin 2019

Sur cette page :

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

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

Download the Fee Payment Form.

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

Téléchargez le formulaire de paiement des frais.

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,

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

except statutory holiday

- 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

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

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

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

l'exception des jours fériés

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

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

  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

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.

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. 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

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,

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).

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 ou l'OPIC l'a reçue (Heure de l'Est).

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.

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'acquittement 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.

Patents

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

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 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.

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.

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.

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.

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.

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.

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

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

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.

:

- 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.

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.

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.

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.

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.

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.

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 Electronic medium

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

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.

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.

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.

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.

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. 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

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.

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 ½" 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.

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.

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.

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)

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

4. General Information

General information may be obtained by communicating with CIPO's Client Service Centre.

4. Renseignements généraux

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

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

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

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;

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 règlementaire** 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 règlementaires** 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 (1er 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 (1er juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

- 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.

- 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 règlementaires 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 règlementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

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,

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℠, ou par Xpresspost℠ 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

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

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.

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. 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

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

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.

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.

Veuillez 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. 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.

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. 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

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

- 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 April 9, 2024 contains applications open to public inspection from March 24, 2024 to March 30, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 9 avril 2024 contient les demandes disponibles au public pour consultation pour la période du 24 mars 2024 au 30 mars 2024.

Canadian Patents Issued

April 9, 2024

Brevets canadiens délivrés

9 avril 2024

---

[11] **2,809,303**
[13] C
[51] **Int.Cl. C12N 5/0735 (2010.01) C12N 5/071 (2010.01) C12N 5/02 (2006.01)**
[25] EN
[54] **DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS**
[54] **DIFFERENCIATION DE CELLULES SOUCHES EMBRYONNAIRES HUMAINES**
[72] REZANIA, ALIREZA, US
[73] JANSSEN BIOTECH, INC., US
[85] 2013-02-22
[86] 2011-08-17 (PCT/US2011/048129)
[87] (WO2012/030539)
[30] US (61/378,472) 2010-08-31

---

[11] **2,810,998**
[13] C
[51] **Int.Cl. G01N 33/48 (2006.01) A61K 31/7076 (2006.01) A61P 35/00 (2006.01) C07H 19/167 (2006.01) C12N 9/10 (2006.01) C12Q 1/48 (2006.01) C12Q 1/68 (2018.01) G01N 33/483 (2006.01) G01N 33/53 (2006.01) G01N 33/68 (2006.01) C07D 473/34 (2006.01)**
[25] EN
[54] **INHIBITORS OF HUMAN EZH2, AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE L'EZH2 HUMAINE, ET LEURS PROCEDES D'UTILISATION**
[72] COPELAND, ROBERT ALLEN, US
[72] RICHON, VICTORIA MARIE, US
[72] SCOTT, MARGARET DAVIS, US
[72] SNEERINGER, CHRISTOPHER JOHN, US
[72] KUNTZ, KEVIN WAYNE, US
[72] KNUTSON, SARAH KATHLEEN, US
[72] POLLOCK, ROY MACFARLANE, US
[73] EPIZYME, INC., US
[85] 2013-03-08
[86] 2011-09-12 (PCT/US2011/051258)
[87] (WO2012/034132)
[30] US (61/381,684) 2010-09-10

---

[11] **2,868,848**
[13] C
[51] **Int.Cl. G06F 9/44 (2018.01)**
[25] EN
[54] **AUTOMATED BLUEPRINT ASSEMBLY FOR ASSEMBLING AN APPLICATION**
[54] **ASSEMBLAGE AUTOMATIQUE DE BLEUS POUR ASSEMBLER UNE APPLICATION**
[72] SHARMA, ABHIJIT, IN
[72] KARNIK, NEERAN, IN
[72] GHASISAS, ABHAY, IN
[73] BMC SOFTWARE, INC., US
[85] 2014-09-26
[86] 2013-03-26 (PCT/US2013/033839)
[87] (WO2013/148651)
[30] US (13/433,162) 2012-03-28

---

[11] **2,881,882**
[13] C
[51] **Int.Cl. H05B 47/20 (2020.01) E01F 9/20 (2016.01) E01F 9/40 (2016.01) E01F 9/00 (2016.01) G09F 13/00 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING A PREPARE-TO-STOP PANEL**
[54] **METHODE DE CONTROLE DE PANNEAU DE PREPARATION A L'ARRET**
[72] FOURNIER, SERGE, CA
[73] LOGISIG INC., CA
[86] (2881882)
[87] (2881882)
[22] 2015-02-13
[30] US (61/939,883) 2014-02-14

---

[11] **2,887,243**
[13] C
[51] **Int.Cl. A61K 31/5377 (2006.01) C12Q 1/6886 (2018.01) A61P 35/00 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHODS OF TREATING CANCER**
[54] **METHODES DE TRAITEMENT DU CANCER**
[72] KNUTSON, SARAH K., US
[72] WARHOLIC, NATALIE, US
[72] KEILHACK, HEIKE, US
[73] EPIZYME, INC., US
[85] 2015-04-08
[86] 2013-10-15 (PCT/US2013/065112)
[87] (WO2014/062720)
[30] US (61/714,140) 2012-10-15
[30] US (61/714,045) 2012-10-15
[30] US (61/714,145) 2012-10-15
[30] US (61/758,972) 2013-01-31
[30] US (61/780,703) 2013-03-13
[30] US (61/786,277) 2013-03-14

---

[11] **2,898,205**
[13] C
[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/32 (2012.01)**
[25] EN
[54] **TRANSACTION TOKEN ISSUING AUTHORITIES**
[54] **AUTORITES EMETTANT UN JETON DE TRANSACTION**
[72] LARACEY, KEVIN, US
[73] PAYPAL, INC., US
[85] 2015-07-14
[86] 2014-01-30 (PCT/US2014/013955)
[87] (WO2014/130222)
[30] US (61/758,543) 2013-01-30

[11] **2,900,214**
[13] C
[51] **Int.Cl. E06B 7/08 (2006.01) E06B 7/084 (2006.01)**
[25] EN
[54] **SHUTTER PANEL FOR AN ARCHITECTURAL OPENING**
[54] **PANNEAU DE VOLET POUR OUVERTURE ARCHITECTURALE**
[72] HOLFORD, MICHAEL S., US
[72] ANTHONY, JAMES M., US
[72] KOVACH, JOSEPH E., US
[73] HUNTER DOUGLAS INC., US
[85] 2015-08-04
[86] 2013-03-14 (PCT/US2013/031780)
[87] (WO2014/142932)

[11] **2,901,857**
[13] C
[51] **Int.Cl. G08B 17/04 (2006.01) G01L 7/06 (2006.01)**
[25] EN
[54] **PNEUMATIC DETECTOR ASSEMBLY WITH BELLOWS**
[54] **DISPOSITIF DETECTEUR PNEUMATIQUE DOTE DE SOUFFLETS**
[72] FRASURE, DAVID, US
[72] WALLACE, STEVEN, US
[72] STANDIFER, WILLIAM BRETT, US
[73] KIDDE TECHNOLOGIES, INC., US
[86] (2901857)
[87] (2901857)
[22] 2015-08-26
[30] US (14/515,886) 2014-10-16

[11] **2,910,146**
[13] C
[51] **Int.Cl. G01N 33/50 (2006.01)**
[25] EN
[54] **METHOD FOR A CELL-BASED DRUG SCREENING ASSAY AND THE USE THEREOF**
[54] **PROCEDE D'ANALYSE DE CRIBLAGE DE MEDICAMENTS BASE SUR DES CELLULES ET SON UTILISATION**
[72] RIZZI, SIMONE, CH
[72] JACOT, GUILLAUME, CH
[72] LUTOLF, MATTHIAS, CH
[73] PRECISION CANCER TECHNOLOGIES INC., CA
[85] 2015-10-21
[86] 2014-04-22 (PCT/EP2014/058152)
[87] (WO2014/173907)
[30] EP (13165419.6) 2013-04-25

[11] **2,910,813**
[13] C
[51] **Int.Cl. G16Z 99/00 (2019.01) G09B 7/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING AND MODIFYING BEHAVIOR**
[54] **SYSTEME ET METHODE DE DETERMINATION ET DE MODIFICATION DE COMPORTEMENT**
[72] DRAGICEVIC, SIMO, GB
[72] BROWN, ROBERT WILLIAM, GB
[72] PERCY, CHRISTIAN WILLIAM, GB
[73] PLAYTECH SOFTWARE LIMITED, GB
[86] (2910813)
[87] (2910813)
[22] 2015-10-29
[30] US (62/073054) 2014-10-31

[11] **2,916,909**
[13] C
[51] **Int.Cl. G06F 9/44 (2018.01) G06F 9/455 (2018.01) G06F 16/00 (2019.01)**
[25] EN
[54] **SYSTEM FOR AUTOMATING PROCESSES**
[54] **SYSTEME POUR AUTOMATISER DES PROCESSUS**
[72] MOSS, DAVID, GB
[72] GULTNIEK, CIARAN, GB
[73] BLUE PRISM LIMITED, GB
[85] 2015-12-29
[86] 2014-07-04 (PCT/GB2014/052050)
[87] (WO2015/001360)
[30] GB (1312151.2) 2013-07-05

[11] **2,919,928**
[13] C
[51] **Int.Cl. G02C 5/00 (2006.01)**
[25] EN
[54] **SHEET FOR MANUFACTURING ARTICLES, PARTICULARLY GLASSES AND THE LIKE, AND ASSOCIATED MANUFACTURING PROCESS**
[54] **FEUILLE POUR LA FABRICATION D'ARTICLES, EN PARTICULIER DES VERRES ET ANALOGUES, ET PROCEDE DE FABRICATION ASSOCIE**
[72] BUFFA, FEDERICO GIANLUIGI, IT
[73] LUXOTTICA S.R.L., IT
[85] 2016-01-29
[86] 2014-07-29 (PCT/EP2014/066249)
[87] (WO2015/018692)
[30] IT (MI2013A001336) 2013-08-05

[11] **2,920,858**
[13] C
[51] **Int.Cl. A61B 18/18 (2006.01) A61B 18/20 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TREATING DERMAL MELASMA**
[54] **PROCEDE ET APPAREIL POUR LE TRAITEMENT DU MELASME DERMIQUE**
[72] ANDERSON, RICHARD ROX, US
[72] MANSTEIN, DIETER, US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2016-02-09
[86] 2014-08-11 (PCT/US2014/050518)
[87] (WO2015/021462)
[30] US (61/864,238) 2013-08-09

[11] **2,924,714**
[13] C
[51] **Int.Cl. A61K 47/10 (2017.01) A61K 9/10 (2006.01) A61K 39/35 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **TOOTHPASTE FOR DELIVERING ALLERGENS TO ORAL MUCOSA**
[54] **DENTIFRICE DESTINE A PROCURER DES ALLERGENES A LA MUQUEUSE BUCCALE**
[72] NELSON, MICHAEL, US
[72] BERGLUND, ERICK, US
[73] ALLOVATE, LLC, US
[85] 2016-03-17
[86] 2014-09-19 (PCT/US2014/056562)
[87] (WO2015/042402)
[30] US (61/879,779) 2013-09-19
[30] US (61/879,801) 2013-09-19

[11] **2,925,544**
[13] C
[51] **Int.Cl. G01V 9/00 (2006.01) G01K 11/322 (2021.01) G01K 11/324 (2021.01)**
[25] EN
[54] **METHOD AND DEVICE FOR MONITORING A SUBMARINE CABLE**
[54] **METHODE ET DISPOSITIF DE SURVEILLANCE D'UN CABLE SOUS-MARIN**
[72] HILL, WIELAND, DE
[72] SCHAFER, PETER, DE
[72] OLSCHEWSKI, MARTIN, DE
[73] NKT PHOTONICS GMBH, DE
[86] (2925544)
[87] (2925544)
[22] 2016-03-31
[30] DE (10 2015 105 241.5) 2015-04-07
[30] DE (10 2015 109 493.2) 2015-06-15

[11] **2,925,642**
[13] C
[51] **Int.Cl. H04K 3/00 (2006.01)**
[25] EN
[54] **EVENT SEQUENCER FOR RADIO FREQUENCY SYSTEM**
[54] **SEQUENCEUR D'EVENEMENT DESTINE A UN SYSTEME DE FREQUENCE RADIO**
[72] YENSEN, TREVOR N., CA
[72] HALPIN, SHAWN, CA
[72] BUSH, MIKE, CA
[73] ALLEN-VANGUARD CORPORATION, CA
[86] (2925642)
[87] (2925642)
[22] 2016-03-31
[30] US (62/140,777) 2015-03-31

[11] **2,926,124**
[13] C
[51] **Int.Cl. C12M 1/34 (2006.01) B05D 5/12 (2006.01)**
[25] EN
[54] **METHODS FOR FORMING LIPID BILAYERS ON BIOCHIPS**
[54] **PROCEDES DE FORMATION DE BICOUCHES LIPIDIQUES SUR DES BIOPUCES**
[72] DAVIS, RANDALL W., US
[72] LIU, EDWARD SHIAN, US
[72] AGUIRRE, ANNE, US
[72] TRANS, ANDREW, US
[72] POLLARD, JAMES, US
[72] CECH, CYNTHIA, US
[72] HARADA, ERIC TAKESHI, US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2016-03-31
[86] 2014-10-23 (PCT/US2014/061853)
[87] (WO2015/061510)
[30] US (61/894,661) 2013-10-23

[11] **2,926,973**
[13] C
[51] **Int.Cl. C21D 9/00 (2006.01)**
[25] EN
[54] **ALUMINUM WARM FORMING MULTI-OPENING OVEN AND PRODUCTION LINE**
[54] **FOUR MULTI OUVERTURE DE FORMATION A CHAUD D'ALUMINIUM ET CHAINE DE PRODUCTION**
[72] GARIMELLA, VENUGOPAL, US
[72] WOMACK, DARREN ANDREW, CA
[72] ASHMORE, ERRYN, US
[72] SANOR, TOM, US
[72] SCHLEICHERT, EDWARD, DE
[72] KAINTH, TARLOK SINGH, CA
[72] TAYLOR, TRACY, CA
[72] ARMINSKI, JAMES, US
[72] VANDENBROUCK, KEVIN, US
[73] MAGNA INTERNATIONAL INC., CA
[86] (2926973)
[87] (2926973)
[22] 2016-04-13
[30] US (62/147,721) 2015-04-15

[11] **2,938,090**
[13] C
[51] **Int.Cl. H04N 21/41 (2011.01) H04H 40/90 (2009.01) H04N 21/61 (2011.01)**
[25] EN
[54] **MULTI-TUNER DEVICE INTEGRATION**
[54] **INTEGRATION D'APPAREILLAGE A DISPOSITIFS D'ACCORD MULTIPLES**
[72] HIEB, ERIC, US
[72] LANGER, PAUL, US
[73] DISH TECHNOLOGIES L.L.C., US
[85] 2016-07-27
[86] 2015-01-06 (PCT/US2015/010324)
[87] (WO2015/103611)
[30] US (61/924,181) 2014-01-06

[11] **2,938,730**
[13] C
[51] **Int.Cl. A01C 7/20 (2006.01) A01C 7/08 (2006.01)**
[25] EN
[54] **AIR DISTRIBUTION SYSTEM FOR A PNEUMATIC CONVEYING SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'AIR POUR UN SYSTEME DE TRANSPORT PNEUMATIQUE**
[72] HUI, KA PO CATHERINE, CA
[72] ROBERGE, MARTIN J., CA
[72] THOMPSON, DENNIS GEORGE, CA
[73] CNH INDUSTRIAL CANADA, LTD., CA
[86] (2938730)
[87] (2938730)
[22] 2016-08-15
[30] US (62/206,225) 2015-08-17

[11] **2,942,269**
[13] C
[51] **Int.Cl. B01J 13/22 (2006.01) B01J 2/16 (2006.01) B01J 2/30 (2006.01) B01J 20/32 (2006.01)**
[25] EN
[54] **EXTRUDED GRANULAR ABSORBENT**
[54] **ABSORBANT GRANULAIRE EXTRUDE**
[72] LIPSCOMB, JOHN M., US
[73] PIONEER PET PRODUCTS, LLC, US
[85] 2016-09-07
[86] 2015-03-12 (PCT/US2015/020310)
[87] (WO2015/138821)
[30] US (61/952,133) 2014-03-12

[11] **2,948,257**
[13] C
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/30 (2016.01)**
[25] EN
[54] **OPERATING ROOM SAFETY ZONE**
[54] **ZONE DE SECURITE DE SALLE D'OPERATION**
[72] CHEN, SEAN JY-SHYANG, CA
[72] SRIMOHANARAJAH, KIRUSHA, CA
[72] RICHMOND, JOSHUA LEE, CA
[72] DYER, KELLY NOEL, CA
[72] SELA, GAL, CA
[73] SYNAPTIVE MEDICAL INC., CA
[86] (2948257)
[87] (2948257)
[22] 2016-11-14
[30] US (15/228,853) 2016-08-04

[11] **2,948,671**
[13] C
[51] **Int.Cl. G01N 27/82 (2006.01)**
[25] EN
[54] **METAL DETECTION APPARATUS**
[54] **APPAREIL DE DETECTION DU METAL**
[72] LYON, DAVID, GB
[73] METTLER-TOLEDO SAFELINE LTD., GB
[86] (2948671)
[87] (2948671)
[22] 2016-11-16
[30] EP (15200784.5) 2015-12-17

[11] **2,949,790**
[13] C
[51] **Int.Cl. G01B 5/24 (2006.01)**
[25] EN
[54] **ANGLE FINDER PROTRACTOR**
[54] **RAPPORTEUR DE REPERAGE D'ANGLE**
[72] OSTACHOWSKI, EDWARD, CA
[73] OSTACHOWSKI, EDWARD, CA
[86] (2949790)
[87] (2949790)
[22] 2016-11-28
[30] US (62261851) 2015-12-01

[11] **2,951,230**
[13] C
[51] **Int.Cl. C02F 3/00 (2006.01) A62D 3/02 (2007.01) B09C 1/00 (2006.01) C02F 3/34 (2006.01)**
[25] EN
[54] **PROCESSES FOR REMEDIATION OF A CONTAMINATED MATERIAL**
[54] **PROCEDES DE DECONTAMINATION DE MATERIAU CONTAMINE**
[72] KNIPPA, MARK, US
[73] BOLDWATER USA, LP, US
[85] 2016-12-05
[86] 2015-06-05 (PCT/US2015/034366)
[87] (WO2015/188042)
[30] US (62/009,075) 2014-06-06
[30] US (62/121,732) 2015-02-27

[11] **2,952,638**
[13] C
[51] **Int.Cl. C12P 17/12 (2006.01) C12N 9/02 (2006.01) C12N 9/88 (2006.01) C12N 15/52 (2006.01) C12N 15/53 (2006.01) C12N 15/60 (2006.01) C12N 15/63 (2006.01) C12P 7/42 (2006.01) C12P 7/44 (2006.01) C12P 13/00 (2006.01) C12P 13/22 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MAKING (S)-NORCOCLAURINE AND (S)-NORLAUDANOSOLINE, AND SYNTHESIS INTERMEDIATES THEREOF**
[54] **COMPOSITIONS ET PROCEDES DE FABRICATION (S)-NORCOCLAURINE ET (S)-NORLAUDANOSOLINE, ET INTERMEDIAIRES DE SYNTHESE DE CELLES-CI**
[72] FACCHINI, PETER JAMES, CA
[73] ANTHEIA, INC., US
[85] 2016-12-16
[86] 2015-06-12 (PCT/CA2015/050542)
[87] (WO2015/192233)
[30] US (62/014,367) 2014-06-19

[11] **2,953,113**
[13] C
[51] **Int.Cl. A23L 33/135 (2016.01) A61K 35/745 (2015.01) A61K 35/747 (2015.01) A23L 33/00 (2016.01) A23L 33/125 (2016.01) A23L 33/20 (2016.01) A23C 9/152 (2006.01) A61K 31/047 (2006.01) A23L 27/30 (2016.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **MYO-INOSITOL AND PROBIOTICS, AND THEIR USE**
[54] **MYO-INOSITOL ET PROBIOTIQUES, UTILISATION DE CEUX-CI**
[72] SILVA ZOLEZZI, IRMA, CH
[72] MACE, CATHERINE, CH
[72] BUDIN, FLORENCE, CH
[72] GODFREY, KEITH MALCOLM, GB
[72] BAKER, PHILIP NEWTON, NZ
[72] CHONG, YAP SENG, SG
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2016-12-20
[86] 2015-08-06 (PCT/EP2015/068192)
[87] (WO2016/020491)
[30] EP (14180403.9) 2014-08-08
[30] EP (15170915.1) 2015-06-05

[11] **2,960,215**
[13] C
[51] **Int.Cl. H04W 72/12 (2023.01) H04W 76/28 (2018.01) H04W 72/21 (2023.01)**
[25] EN
[54] **MEDIUM ACCESS CONTROL IN LTE-U**
[54] **CONTROLE D'ACCES AU SUPPORT DANS LA LTE-U**
[72] CAI, ZHIJUN, US
[72] VUTUKURI, ESWAR, GB
[72] SUZUKI, TAKASHI, JP
[72] ANDERSON, NICHOLAS WILLIAM, GB
[73] BLACKBERRY LIMITED, CA
[85] 2017-03-03
[86] 2015-09-08 (PCT/US2015/048837)
[87] (WO2016/040254)
[30] US (14/481,808) 2014-09-09

[11] **2,960,992**
[13] C
[51] **Int.Cl. A61K 38/00 (2006.01)**
[25] EN
[54] **MTORC1 INHIBITORS**
[54] **INHIBITEURS DE MTORC1**
[72] SHOKAT, KEVAN, US
[72] OKANIWA, MASANORI, JP
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2017-03-10
[86] 2015-09-11 (PCT/US2015/049693)
[87] (WO2016/040806)
[30] US (62/049,186) 2014-09-11

[11] **2,961,219**
[13] C
[51] **Int.Cl. F04D 7/04 (2006.01) B26D 1/143 (2006.01) F04D 29/22 (2006.01)**
[25] EN
[54] **CHOPPER PUMP WITH DOUBLE-EDGED CUTTING BARS**
[54] **POMPE DE HACHEUR DOTEE DE BARRES DE COUPE A DOUBLE BORD**
[72] KEERAN, KENT, US
[72] SWENSON, ARNE, US
[73] VAUGHAN COMPANY, INC., US
[86] (2961219)
[87] (2961219)
[22] 2017-03-17
[30] US (15/457,405) 2017-03-13

[11] **2,961,319**
[13] C
[51] **Int.Cl. G01K 13/024 (2021.01) B64D 13/00 (2006.01)**
[25] EN
[54] **OVERHEAT BLEED AIR DETECTOR AND METHOD OF MANUFACTURE**
[54] **DETECTEUR D'AIR DE PRELEVEMENT SURCHAUFFE ET METHODE DE FABRICATION**
[72] SEEBALUCK, DHARMENDR LEN, US
[73] KIDDE TECHNOLOGIES, INC., US
[86] (2961319)
[87] (2961319)
[22] 2017-03-16
[30] US (15/072,941) 2016-03-17

[11] **2,961,507**
[13] C
[51] **Int.Cl. C25D 5/02 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) C25D 21/10 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING ARTICLES BY ELECTRODEPOSITION AND ADDITIVE MANUFACTURING PROCESSES**
[54] **PROCEDES DE PREPARATION D'ARTICLES PAR PROCEDES DE DEPOT ELECTROCHIMIQUE ET DE FABRICATION RAPIDE**
[72] WHITAKER, JOHN D., US
[72] CALDWELL, RICHARD J., US
[72] JENNINGS, CHAD, US
[73] MODUMETAL, INC., US
[85] 2017-03-15
[86] 2015-09-18 (PCT/US2015/050920)
[87] (WO2016/044712)
[30] US (62/052,428) 2014-09-18

[11] **2,961,508**
[13] C
[51] **Int.Cl. C25D 5/10 (2006.01) B65G 49/02 (2006.01) C25D 5/12 (2006.01) C25D 17/00 (2006.01) C25D 21/10 (2006.01) C25D 17/28 (2006.01)**
[25] EN
[54] **A METHOD AND APPARATUS FOR CONTINUOUSLY APPLYING NANOLAMINATE METAL COATINGS**
[54] **PROCEDE ET APPAREIL D'APPLICATION EN CONTINU DE REVETEMENTS METALLIQUES NANOSTRATIFIES**
[72] LOMASNEY, CHRISTINA A., US
[73] MODUMETAL, INC., US
[85] 2017-03-15
[86] 2015-09-18 (PCT/US2015/050932)
[87] (WO2016/044720)
[30] US (62/052,345) 2014-09-18

[11] **2,962,788**
[13] C
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 4/04 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL CELLS HAVING SEMI-SOLID ELECTRODES AND METHODS OF MANUFACTURING THE SAME**
[54] **CELLULES ELECTROCHIMIQUES A ELECTRODES SEMI-SOLIDES ET LEURS PROCEDES DE FABRICATION**
[72] ZAGARS, RAYMOND, US
[72] CURHAN, JEFFREY, US
[72] DOHERTY, TRISTAN, US
[72] SLOCUM, ALEXANDER H., US
[73] 24M TECHNOLOGIES, INC., US
[85] 2017-03-27
[86] 2015-11-04 (PCT/US2015/058992)
[87] (WO2016/073575)
[30] US (62/075,373) 2014-11-05

[11] **2,964,041**
[13] C
[51] **Int.Cl. A61K 31/19 (2006.01) A61K 31/4365 (2006.01) A61K 31/519 (2006.01) A61K 31/616 (2006.01) A61P 7/02 (2006.01)**
[25] EN
[54] **COMPOUNDS AND COMPOSITIONS FOR THE TREATMENT OR PREVENTION OF PATHOLOGICAL CONDITIONS ASSOCIATED WITH EXCESS FIBRIN DEPOSITION AND/OR THROMBUS FORMATION**
[54] **COMPOSES ET COMPOSITIONS POUR LE TRAITEMENT OU LA PREVENTION D'AFFECTIONS PATHOLOGIQUES ASSOCIEES A L'EXCES DE DEPOT DE FIBRINE ET/OU A LA FORMATION DE THROMBUS**
[72] JERN, SVERKER, SE
[72] SALJO, JONAS FAIJERSON, SE
[72] BERGH, NIKLAS, SE
[73] CERENO SCIENTIFIC AB, SE
[85] 2017-04-07
[86] 2015-10-08 (PCT/GB2015/052950)
[87] (WO2016/055797)
[30] GB (1417828.9) 2014-10-08

[11] **2,964,563**
[13] C
[51] **Int.Cl. C08F 2/06 (2006.01) C08F 2/01 (2006.01) C08F 4/6592 (2006.01) C08L 23/06 (2006.01) C08L 23/08 (2006.01)**
[25] EN
[54] **MULTI REACTOR SOLUTION POLYMERIZATION**
[54] **POLYMERISATION DE SOLUTION MULTIREACTEUR**
[72] KAZEMI, NIOUSHA, CA
[72] BROWN, STEPHEN, CA
[72] VANASSELDONK, LAWRENCE, CA
[72] WANG, XIAOCHUAN, CA
[72] SALOMONS, STEPHEN, CA
[72] LACOMBE, YVES, CA
[73] NOVA CHEMICALS CORPORATION, CA
[86] (2964563)
[87] (2964563)
[22] 2017-04-19

[11] **2,967,414**
[13] C
[51] **Int.Cl. C08F 2/34 (2006.01) B01J 8/18 (2006.01) C08F 4/6592 (2006.01) C08F 10/02 (2006.01)**
[25] EN
[54] **METHODS OF CONTROLLING POLYOLEFIN MELT INDEX WHILE INCREASING CATALYST PRODUCTIVITY**
[54] **PROCEDES DE COMMANDE DE L'INDICE DE FUSION DE POLYOLEFINE AVEC AUGMENTATION DE LA PRODUCTIVITE DE CATALYSEUR**
[72] SAVATSKY, BRUCE J., US
[72] MURUGANANDAM, NATARAJAN, US
[72] LYNN, TIMOTHY R., US
[72] FARLEY, JAMES M., US
[72] ZILKER, JR. DANIEL P., US
[72] HUSSEIN, FATHI DAVID, US
[73] UNIVATION TECHNOLOGIES, LLC, US
[85] 2017-05-10
[86] 2015-11-24 (PCT/US2015/062256)
[87] (WO2016/085896)
[30] US (62/084,228) 2014-11-25

[11] **2,968,065**
[13] C
[51] **Int.Cl. C12N 5/0735 (2010.01) C12N 5/071 (2010.01) A61K 35/407 (2015.01) C12N 5/00 (2006.01)**
[25] EN
[54] **INDUCED HEPATOCYTES AND USES THEREOF**
[54] **HEPATOCYTES INDUITS ET UTILISATIONS ASSOCIEES**
[72] LEE, JAU-NAN, TW
[72] LEE, TONY TUNG-YIN, US
[72] LEE, YUTA, TW
[72] TSAI, EING-MEI, TW
[73] ACCELERATED BIOSCIENCES CORP., US
[85] 2017-05-16
[86] 2015-11-25 (PCT/US2015/062674)
[87] (WO2016/086132)
[30] US (62/085,185) 2014-11-26

[11] **2,971,520**
[13] C
[51] **Int.Cl. C12N 15/74 (2006.01) A61K 35/744 (2015.01) C07K 14/52 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **METHODS FOR WOUND HEALING**
[54] **METHODES FAVORISANT LA CICATRISATION DES PLAIES**
[72] VAGESJO, EVELINA, SE
[73] ILYA PHARMA AB, SE
[85] 2017-06-19
[86] 2015-12-23 (PCT/EP2015/081146)
[87] (WO2016/102660)
[30] SE (1451658-7) 2014-12-23

[11] **2,976,982**
[13] C
[51] **Int.Cl. F02C 9/48 (2006.01) B64C 11/30 (2006.01) B64D 37/00 (2006.01) F02C 9/28 (2006.01) F02C 9/44 (2006.01) F02C 9/58 (2006.01) F02K 3/06 (2006.01)**
[25] EN
[54] **POWER PLANT THRUST MANAGEMENT SYSTEM FOR TURBOPROP ENGINES**
[54] **SYSTEME DE GESTION DE POUSSEE D'UNE CENTRALE ELECTRIQUE DESTINE AUX MOTEURS DE TURBOPROPULSEUR**
[72] MORGAN, KEITH, CA
[72] PLANTE, GHISLAIN, CA
[72] FAUCHON, TANIA, CA
[72] DUROCHER, ERIC, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2976982)
[87] (2976982)
[22] 2017-08-18
[30] US (62/413,121) 2016-10-26
[30] US (15/623,154) 2017-06-14

[11] **2,977,385**
[13] C
[51] **Int.Cl. A61K 38/50 (2006.01) A61P 1/12 (2006.01) C12N 9/86 (2006.01) C12N 15/70 (2006.01)**
[25] EN
[54] **CARBAPENEMASES FOR USE WITH ANTIBIOTICS FOR THE PROTECTION OF THE INTESTINAL MICROBIOME**
[54] **CARBAPENEMASES A UTILISER AVEC DES ANTIBIOTIQUES POUR LA PROTECTION DU MICROBIOME INTESTINAL**
[72] KALEKO, MICHAEL, US
[72] CONNELLY, SHEILA, US
[73] THERIVA BIOLOGICS, INC., US
[85] 2017-08-21
[86] 2016-02-23 (PCT/US2016/019129)
[87] (WO2016/137993)
[30] US (62/119,602) 2015-02-23
[30] US (62/155,621) 2015-05-01
[30] US (62/190,806) 2015-07-10

[11] **2,977,767**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **PD-1 / PD-L1 INHIBITORS FOR THE TREATMENT OF CANCER**
[54] **INHIBITEURS DE PD-1/PD-L1 POUR LE TRAITEMENT DU CANCER**
[72] CUILLEROT, JEAN-MARIE, US
[72] HEYDEBRECK, ANJA VON, DE
[72] YUAN, GUOJUN, US
[73] MERCK PATENT GMBH, DE
[73] PFIZER, INC., US
[85] 2017-08-24
[86] 2016-02-23 (PCT/US2016/019120)
[87] (WO2016/137985)
[30] US (62/121,025) 2015-02-26
[30] US (62/133,721) 2015-03-16
[30] US (62/160,291) 2015-05-12
[30] US (62/215,394) 2015-09-08
[30] US (62/254,424) 2015-11-12

[11] **2,978,008**
[13] C
[51] **Int.Cl. A43B 5/02 (2006.01) A43B 3/24 (2006.01) A43B 5/18 (2006.01) A43B 19/00 (2006.01) A43B 23/26 (2006.01)**
[25] EN
[54] **ADAPTABLE FOOTWEAR FOR PLAYING FOOTBALL**
[54] **CHAUSSURES ADAPTABLES POUR JOUER AU FOOTBALL**
[72] STEIDLE, VOLKER PETER, AU
[73] CONCAVE GLOBAL PTY LTD, AU
[85] 2017-08-28
[86] 2016-03-07 (PCT/AU2016/050158)
[87] (WO2016/141427)
[30] AU (2015900807) 2015-03-06

[11] **2,978,443**
[13] C
[51] **Int.Cl. G01N 21/958 (2006.01) B65G 49/06 (2006.01) C03B 35/00 (2006.01)**
[25] EN
[54] **GLASS SHEET ACQUISITION AND POSITIONING SYSTEM**
[54] **SYSTEME D'ACQUISITION ET DE POSITIONNEMENT DE FEUILLE DE VERRE**
[72] VILD, MICHAEL, US
[72] ADDINGTON, JASON, US
[72] MORAN, BENJAMIN, US
[73] GLASSTECH, INC., US
[85] 2017-08-31
[86] 2016-02-02 (PCT/US2016/016095)
[87] (WO2016/140753)
[30] US (14/639,655) 2015-03-05

[11] **2,980,089**
[13] C
[51] **Int.Cl. B01J 13/00 (2006.01) B82Y 40/00 (2011.01) C09K 11/08 (2006.01) B82Y 30/00 (2011.01) C01B 25/08 (2006.01)**
[25] EN
[54] **SIZE-TUNABLE NANOPARTICLE SYNTHESIS**
[54] **SYNTHESE DE NANOPARTICULES A TAILLE MODULABLE**
[72] TESSIER, MICKAEL, BE
[72] DUPONT, DORIAN, BE
[72] HENS, ZEGER, BE
[73] QUSTOMDOT B.V., BE
[85] 2017-09-18
[86] 2016-03-17 (PCT/EP2016/055750)
[87] (WO2016/146719)
[30] EP (15159856.2) 2015-03-19

[11] **2,980,193**
[13] C
[51] **Int.Cl. B01J 13/16 (2006.01) A61K 8/11 (2006.01) B01J 13/18 (2006.01)**
[25] EN
[54] **AQUEOUS MICROCAPSULE SLURRY**
[54] **SUSPENSION AQUEUSE DE MICROCAPSULES**
[72] SCHWANTES, TODD ARLIN, US
[73] ENCAPSYS, LLC, US
[85] 2017-09-18
[86] 2016-09-01 (PCT/US2016/049861)
[87] (WO2017/040759)
[30] US (62/214,495) 2015-09-04

[11] **2,980,947**
[13] C
[51] **Int.Cl. H04L 12/22 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING AND INTERFERING WITH COMPROMISED DEVICES AND UNAUTHORIZED DEVICE RELOCATION IN A COMMUNICATION NETWORK**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE DISPOSITIFS COMPROMIS ET D'INTERFERENCE AVEC CES DERNIERS ET DE RELOCALISATION DE DISPOSITIFS NON AUTORISES DANS UN RESEAU DE COMMUNICATION**
[72] JUNEAU, RENE, CA
[73] MAXXIAN TECHNOLOGY INC., CA
[85] 2017-09-26
[86] 2016-03-24 (PCT/CA2016/000083)
[87] (WO2016/149796)
[30] US (62/177,934) 2015-03-26

[11] **2,981,004**
[13] C
[51] **Int.Cl. A61N 1/372 (2006.01)**
[25] EN
[54] **ULTRASONIC MULTIPLEXING NETWORK FOR IMPLANTABLE MEDICAL DEVICES**
[54] **RESEAU DE MULTIPLEXAGE ULTRASONORE POUR DISPOSITIFS MEDICAUX IMPLANTABLES**
[72] MELODIA, TOMMASO, US
[72] SANTAGATI, GIUSEPPE ENRICO, US
[73] NORTHEASTERN UNIVERSITY, US
[85] 2017-09-26
[86] 2016-01-07 (PCT/US2016/012439)
[87] (WO2016/112166)
[30] US (62/100,628) 2015-01-07

[11] **2,981,665**
[13] C
[51] **Int.Cl. H04L 9/16 (2006.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD OF SESSION KEY GENERATION AND EXCHANGE**
[54] **SYSTEME ET PROCEDE POUR GENERATION ET ECHANGE DE CLE DE SESSION**
[72] DUNJIC, MILOS, CA
[72] HALDENBY, PERRY AARON JONES, CA
[72] CHOW, ARTHUR CARROLL, CA
[72] NGUYEN, ANTHONY HAITUYEN, CA
[72] PATEL, HET ANAND, CA
[72] DOYLE, CASEY LYN, CA
[72] LIU, YUBING, CA
[72] LEE, JOHN JONG SUK, CA
[72] TAX, DAVID SAMUEL, CA
[72] JAGGA, ARUN VICTOR, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2981665)
[87] (2981665)
[22] 2017-10-05

---

[11] **2,981,842**
[13] C
[51] **Int.Cl. G06F 9/50 (2006.01)**
[25] EN
[54] **RESOURCE ALLOCATION BASED ON RESOURCE DISTRIBUTION DATA FROM CHILD NODE**
[54] **ATTRIBUTION DE RESSOURCES FONDEE SUR LES DONNEES DE DISTRIBUTION DES RESSOURCES D'UN NOEUD ENFANT**
[72] JURETIC, VICTORIA, CA
[72] FAN, XIAOTIAN, CA
[72] CHAN, BASIL, CA
[72] BANQUIER, STEPHEN, CA
[72] LEE, JOHN JONG-SUK, CA
[73] THE TORONTO-DOMINION BANK, CA
[86] (2981842)
[87] (2981842)
[22] 2017-10-06
[30] US (62/465,208) 2017-03-01

---

[11] **2,982,045**
[13] C
[51] **Int.Cl. H04N 7/08 (2006.01) H04N 21/2365 (2011.01) G09G 5/00 (2006.01) G09G 5/391 (2006.01) H04N 7/015 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR HANDLING VIDEO DATA**
[54] **SYSTEME ET PROCEDE DE GESTION DE DONNEES VIDEO**
[72] NEHRU, ASHRAF, GB
[73] DISGUISE TECHNOLOGIES LIMITED, GB
[85] 2017-10-06
[86] 2016-04-14 (PCT/GB2016/051048)
[87] (WO2016/166542)
[30] GB (1506328.2) 2015-04-14
[30] GB (1517475.8) 2015-10-02

---

[11] **2,983,446**
[13] C
[51] **Int.Cl. A61K 31/47 (2006.01) C07D 217/24 (2006.01)**
[25] EN
[54] **BROMODOMAIN INHIBITOR**
[54] **INHIBITEUR DE BROMODOMAINES**
[72] BETANCORT, JUAN MANUEL, US
[72] STAFFORD, JEFFREY ALAN, US
[72] STANSFIELD, RYAN, US
[72] VEAL, JAMES MARVIN, US
[73] CELGENE QUANTICEL RESEARCH, INC., US
[85] 2017-10-19
[86] 2016-04-22 (PCT/US2016/029029)
[87] (WO2016/172618)
[30] US (62/151,205) 2015-04-22

---

[11] **2,984,088**
[13] C
[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/38 (2006.01) A61K 45/06 (2006.01) A61P 25/04 (2006.01) A61P 25/18 (2006.01)**
[25] EN
[54] **COMBINATIONS OF CANNABINOIDS AND N-ACYLETHANOLAMINES**
[54] **COMBINAISONS DE CANNABINOIDES ET DE N-ACYLETHANOLAMINES**
[72] SHMULEWITZ, ASCHER, IL
[72] HABER, ELRAN, IL
[72] BRENER, EPHRAIM, IL
[73] SCISPARC LTD., IL
[85] 2017-10-26
[86] 2016-04-19 (PCT/IL2016/050414)
[87] (WO2016/174661)
[30] US (62/154,144) 2015-04-29

---

[11] **2,984,337**
[13] C
[51] **Int.Cl. A41G 5/02 (2006.01) A41G 5/00 (2006.01) A45D 8/14 (2006.01)**
[25] EN
[54] **CHEMICALLY MINIMIZED SYSTEM FOR TIME REDUCED APPLICATION OF EYELASH EXTENSIONS**
[54] **SYSTEME CHIMIQUEMENT REDUIT AU MINIMUM POUR UNE APPLICATION LIMITEE DANS LE TEMPS D'EXTENSIONS DE CILS**
[72] YANG, SOO-JIN, US
[73] COSMO SPA LOUNGE & SUPPLY, INC. DBA ILLUMINO, US
[85] 2017-10-27
[86] 2016-04-29 (PCT/US2016/030216)
[87] (WO2016/179024)
[30] US (62/155,902) 2015-05-01

[11] **2,984,421**
[13] C
[51] **Int.Cl. C07H 19/10 (2006.01) A61K 31/7068 (2006.01) A61K 31/7076 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) C07H 19/20 (2006.01)**
[25] EN
[54] **NUCLEOSIDE ANALOGS FOR TREATMENT OF THE FLAVIVIRIDAE FAMILY OF VIRUSES AND CANCER**
[54] **ANALOGUES DE NUCLEOSIDES A UTILISER POUR LE TRAITEMENT D'INFECTIONS PAR DES VIRUS DE LA FAMILLE DES FLAVIVIRIDAE ET DU CANCER**
[72] COATS, STEVEN J., US
[72] AMBLARD, FRANCK, US
[72] MENGSHETTI, SEEMA, US
[72] LI, HAO, US
[72] SCHINAZI, RAYMOND F., US
[73] COCRYSTAL PHARMA, INC., US
[73] EMORY UNIVERSITY, US
[85] 2017-10-30
[86] 2016-04-27 (PCT/US2016/029527)
[87] (WO2016/178876)
[30] US (62/155,939) 2015-05-01
[30] US (62/246,980) 2015-10-27

[11] **2,984,788**
[13] C
[51] **Int.Cl. C01G 1/10 (2006.01) C01G 3/10 (2006.01) C01G 5/00 (2006.01) C01G 7/00 (2006.01) C01G 9/06 (2006.01) C01G 21/20 (2006.01)**
[25] EN
[54] **PROCESSES AND SYSTEMS FOR REGENERATING ALKALI PROCESS STREAMS**
[54] **PROCEDES ET SYSTEMES DE REGENERATION DE FLUX DE PROCESSUS ALCALINS**
[72] TSENG, SHIAW, US
[72] LEIKAM, JARED, US
[72] PAYSTRUP, CARL, US
[73] GRAYMONT WESTERN US INC., US
[85] 2017-11-01
[86] 2016-05-04 (PCT/US2016/030804)
[87] (WO2016/179294)
[30] US (62/156,703) 2015-05-04

[11] **2,985,305**
[13] C
[51] **Int.Cl. A61K 31/164 (2006.01) A61K 31/4468 (2006.01) A61K 31/485 (2006.01) A61P 25/04 (2006.01)**
[25] EN
[54] **COMBINATIONS OF OPIOIDS AND N-ACYLETHANOLAMINES**
[54] **COMBINAISONS D'OPIOIDES ET DE N-ACYLETHANOLAMINES**
[72] SHMULEWITZ, ASCHER, IL
[72] HABER, ELRAN, IL
[72] BRENER, EPHRAIM, IL
[73] SCISPARC LTD., IL
[85] 2017-11-07
[86] 2016-05-17 (PCT/IL2016/050519)
[87] (WO2016/185468)
[30] US (62/164,618) 2015-05-21

[11] **2,986,106**
[13] C
[51] **Int.Cl. G06F 3/048 (2013.01) G06F 9/445 (2018.01)**
[25] EN
[54] **TECHNIQUES FOR CONFIGURING A GENERIC PROGRAM USING CONTROLS**
[54] **TECHNIQUES POUR CONFIGURER UN PROGRAMME GENERIQUE A L'AIDE DE COMMANDES**
[72] PYLE, HUGH F., US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2017-11-15
[86] 2016-05-13 (PCT/US2016/032439)
[87] (WO2016/187033)
[30] US (14/714,037) 2015-05-15

[11] **2,987,437**
[13] C
[51] **Int.Cl. C07K 14/54 (2006.01) A61K 38/20 (2006.01) A61P 29/00 (2006.01) C12N 15/24 (2006.01) C12N 15/63 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **IL-37 VARIANTS**
[54] **VARIANTS DE L'IL-37**
[72] NOLD, MARCEL, AU
[72] NOLD, CLAUDIA, AU
[72] ELLISDON, ANDREW, AU
[72] WHISSTOCK, JAMES, AU
[73] MONASH UNIVERSITY, AU
[73] HUDSON INSTITUTE OF MEDICAL RESEARCH, AU
[85] 2017-11-28
[86] 2016-06-15 (PCT/AU2016/050495)
[87] (WO2016/201503)
[30] AU (2015902262) 2015-06-15
[30] AU (2016900703) 2016-02-26

[11] **2,987,563**
[13] C
[51] **Int.Cl. C07D 233/86 (2006.01) C07C 331/28 (2006.01)**
[25] EN
[54] **PRODUCTION METHOD OF ENZALUTAMIDE CRYSTAL FORM**
[54] **METHODE DE PRODUCTION DE FORME CRISTALLINE D'ENZALUTAMIDE**
[72] SUZUKI, YUSUKE, JP
[72] NAKAGAWA, SHUICHI, JP
[72] KITAMURA, TSUYOSHI, JP
[73] ASTELLAS PHARMA INC., JP
[85] 2017-11-28
[86] 2016-05-27 (PCT/JP2016/065729)
[87] (WO2016/194813)
[30] JP (2015-109805) 2015-05-29

[11] **2,987,861**
[13] C
[51] **Int.Cl. C07C 43/04 (2006.01) C10M 105/18 (2006.01)**
[25] EN
[54] **ETHER COMPOUNDS AND RELATED COMPOSITIONS**
[54] **COMPOSES D'ETHER ET COMPOSITIONS ASSOCIEES**
[72] LAMB, GORDON, US
[72] GOKHALE, AMIT, US
[72] DAVIES, JOHN PHILIP, US
[72] REDSHAW, JOHN, US
[72] SEDEN, PETER, US
[72] WEST, KEVIN, US
[73] CASTROL LIMITED, GB
[85] 2017-11-30
[86] 2016-06-17 (PCT/IB2016/000943)
[87] (WO2016/203310)
[30] US (62/181,536) 2015-06-18

[11] **2,988,951**
[13] C
[51] **Int.Cl. C02F 1/76 (2006.01) C02F 1/50 (2006.01) C02F 1/68 (2006.01) C02F 1/72 (2006.01)**
[25] EN
[54] **BIOCIDE COMPOSITION AND METHOD**
[54] **COMPOSITION BIOCIDE ET PROCEDE**
[72] SHIM, SANG HEA, US
[72] KIM, CHUNG SOO, KR
[73] JUSTEQ, LLC, US
[73] ACCULAB CO., LTD., KR
[85] 2017-12-08
[86] 2016-06-09 (PCT/US2016/036623)
[87] (WO2016/201060)
[30] US (62/174,828) 2015-06-12
[30] US (62/343,996) 2016-06-01

[11] **2,988,997**
[13] C
[51] **Int.Cl. A61M 1/36 (2006.01) A61M 60/113 (2021.01) A61M 60/216 (2021.01) A61M 60/82 (2021.01) A61M 60/824 (2021.01) A61M 1/16 (2006.01)**
[25] EN
[54] **EXTRACORPOREAL AMBULATORY ASSIST LUNG**
[54] **POUMON EXTRACORPOREL D'ASSISTANCE AMBULATOIRE**
[72] MADHANI, SHALV, US
[72] FRANKOWSKI, BRIAN JOSEPH, US
[72] FEDERSPIEL, WILLIAM J., US
[72] BURGREEN, GREGORY, US
[72] ANTAKI, JAMES F., US
[73] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[73] CARNEGIE MELLON UNIVERSITY, US
[73] MISSISSIPPI STATE UNIVERSITY, US
[85] 2017-12-08
[86] 2016-06-23 (PCT/US2016/038957)
[87] (WO2016/210089)
[30] US (62/183,730) 2015-06-23

[11] **2,989,819**
[13] C
[51] **Int.Cl. G06Q 50/47 (2024.01) H04W 4/44 (2018.01) H04W 4/90 (2018.01) G08B 21/02 (2006.01) H04W 4/029 (2018.01)**
[25] EN
[54] **TRIP ANOMALY DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION D'ANOMALIES DE DEPLACEMENT**
[72] TRUONG, MICHAEL, US
[72] PURDY, DAVID, US
[72] MAWAS, RAMI, US
[73] UBER TECHNOLOGIES, INC., US
[85] 2017-12-15
[86] 2016-06-14 (PCT/US2016/037454)
[87] (WO2016/205258)
[30] US (14/742,273) 2015-06-17

[11] **2,991,630**
[13] C
[51] **Int.Cl. H04W 40/24 (2009.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DYNAMICALLY SCHEDULING WIRELESS TRANSMISSIONS WITHOUT COLLISION**
[54] **SYSTEME ET PROCEDE DE PROGRAMMATION DYNAMIQUE D'EMISSIONS RADIOELECTRIQUES SANS COLLISION**
[72] BENNETT, JUSTIN EMRYS, US
[72] CIHOLAS, MIKE ETIENNE, US
[72] HOLLINGER, HERBERT ALAN, US
[72] ALDRIDGE, JEREMY WAYNE, US
[72] BLANKENSHIP, MASON THOMAS, US
[72] MORRIS, DANIEL LAWRENCE, US
[73] ISOLYNX, LLC, US
[85] 2018-01-05
[86] 2016-07-13 (PCT/US2016/041980)
[87] (WO2017/011491)
[30] US (62/192,017) 2015-07-13

[11] **2,992,946**
[13] C
[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **SATELLITE MODEM LOCATION TRACKING**
[54] **POURSUITE DE POSITION DE MODEM SATELLITE**
[72] HARRINGTON, EMANUEL GIRARD, US
[72] NICHOLS, DILLON JAMES, US
[72] YUAN, YONG KANG, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2018-01-17
[86] 2016-07-15 (PCT/US2016/042639)
[87] (WO2017/062082)
[30] US (14/802,705) 2015-07-17

[11] **2,993,771**
[13] C
[51] **Int.Cl. C22C 38/40 (2006.01) C21D 6/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01)**
[25] EN
[54] **HIGH A1-CONTENT VIBRATION-DAMPING FERRITIC STAINLESS STEEL MATERIAL, AND PRODUCTION METHOD**
[54] **MATERIAU D'ACIER INOXYDABLE A BASE DE FERRITE A TENEUR ELEVEE EN AL DOTE DE PROPRIETES D'AMORTISSEMENT, ET PROCEDE DE FABRICATION DE CELUI-CI**
[72] HORI, YOSHIAKI, JP
[72] IMAKAWA, KAZUNARI, JP
[72] SUZUKI, SATOSHI, JP
[73] NIPPON STEEL STAINLESS STEEL CORPORATION, JP
[85] 2018-01-25
[86] 2016-08-10 (PCT/JP2016/073547)
[87] (WO2017/030064)
[30] JP (2015-160307) 2015-08-17

[11] **2,994,675**
[13] C
[51] **Int.Cl. F16F 9/44 (2006.01) B60G 15/02 (2006.01) F15B 15/14 (2006.01) F16F 1/00 (2006.01) F16F 9/00 (2006.01) F16F 9/32 (2006.01) H02K 41/02 (2006.01)**
[25] EN
[54] **MECHANICAL SPRING ACTUATOR**
[54] **ACTIONNEUR A RESSORT MECANIQUE**
[72] SPYCHE, GERALD J., JR., US
[73] KYNTEC CORPORATION, US
[85] 2018-02-02
[86] 2016-08-04 (PCT/US2016/045478)
[87] (WO2017/024103)
[30] US (62/200,774) 2015-08-04

[11] **2,994,974**
[13] C
[51] **Int.Cl. A61K 31/407 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT OR PREVENTION OF ACUTE BRAIN OR NERVE INJURIES**
[54] **METHODES DE TRAITEMENT OU DE PREVENTION DE LESIONS AIGUES DU CERVEAU OU DES NERFS**
[72] MACCECCHINI, MARIA, US
[73] ANNOVIS BIO, INC., US
[85] 2018-02-06
[86] 2016-08-12 (PCT/US2016/046794)
[87] (WO2017/030968)
[30] US (62/205,431) 2015-08-14

[11] **2,996,681**
[13] C
[51] **Int.Cl. C07D 498/04 (2006.01) A61K 31/437 (2006.01) A61P 9/04 (2006.01) A61P 13/12 (2006.01) A61P 15/00 (2006.01) A61P 25/00 (2006.01) A61P 27/12 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **INHIBITORS OF TRYPTOPHAN DIOXYGENASES (IDO1 AND TDO) AND THEIR USE IN THERAPY**
[54] **INHIBITEURS DES TRYPTOPHANE-DIOXYGENASES (IDO1 ET TDO) ET LEUR UTILISATION EN THERAPIE**
[72] PALMER, BRIAN DESMOND, NZ
[72] CHING, LAI-MING, NZ
[73] AUCKLAND UNISERVICES LIMITED, NZ
[85] 2018-02-26
[86] 2016-08-25 (PCT/NZ2016/050135)
[87] (WO2017/034420)
[30] NZ (711514) 2015-08-27

[11] **2,996,992**
[13] C
[51] **Int.Cl. G02B 6/122 (2006.01) G02B 1/12 (2006.01) G02B 6/35 (2006.01)**
[25] EN
[54] **TIME-MULTIPLEXED BACKLIGHT AND MULTIVIEW DISPLAY USING SAME**
[54] **RETROECLAIRAGE MULTIPLEXE DANS LE TEMPS ET AFFICHEUR A VUES MULTIPLES L'UTILISANT**
[72] FATTAL, DAVID A., US
[73] LEIA INC., US
[85] 2018-01-23
[86] 2016-03-31 (PCT/US2016/025423)
[87] (WO2017/039756)
[30] US (62/214,977) 2015-09-05

[11] **2,997,224**
[13] C
[51] **Int.Cl. F03D 7/04 (2006.01) F03D 7/02 (2006.01) F03D 9/00 (2016.01) G01M 7/00 (2006.01)**
[25] EN
[54] **A WIND TURBINE AND A METHOD OF OPERATING A WIND TURBINE WITH A ROTATIONAL SPEED EXCLUSION ZONE**
[54] **EOLIENNE ET PROCEDE DE FONCTIONNEMENT D'EOLIENNE AYANT UNE ZONE D'EXCLUSION DE VITESSE DE ROTATION**
[72] PEDERSEN, KELD STEFAN, DK
[72] FRIEDRICH, MICHAEL, DK
[73] ENVISION ENERGY (DENMARK) APS, DK
[85] 2018-03-01
[86] 2016-08-15 (PCT/DK2016/050274)
[87] (WO2017/036481)
[30] DK (PA 2015 70570) 2015-09-04

[11] **2,997,529**
[13] C
[51] **Int.Cl. A61K 51/12 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHOD, APPARATUS, AND SYSTEM FOR RADIATION THERAPY**
[54] **PROCEDE, APPAREIL ET SYSTEME DE RADIOTHERAPIE**
[72] SRINIVAS, SHYAM, US
[72] DOKE, ANIRUDDHA, US
[73] SIRTEX MEDICAL INC., US
[85] 2018-03-02
[86] 2016-07-01 (PCT/US2016/040599)
[87] (WO2017/039822)
[30] US (14/846,817) 2015-09-06
[30] US (15/197,764) 2016-06-30

[11] **2,997,783**
[13] C
[51] **Int.Cl. F16B 2/06 (2006.01) B62D 7/00 (2006.01) F16D 1/08 (2006.01)**
[25] EN
[54] **SPACER PLATE WITH SEAL FOR JOINT ASSEMBLY**
[54] **PLAQUE D'ESPACEMENT AVEC JOINT D'ETANCHEITE POUR ENSEMBLE JOINT**
[72] CHAPAGAIN, PRADEEP, US
[72] MATHEW, SUNIL I., US
[72] HUDSON, CHARLES TAYLOR, US
[73] CATERPILLAR INC., US
[85] 2018-03-06
[86] 2016-09-13 (PCT/US2016/051457)
[87] (WO2017/048682)
[30] US (62/218,392) 2015-09-14
[30] US (15/235,816) 2016-08-12

[11] **2,998,663**
[13] C
[51] **Int.Cl. C08F 297/08 (2006.01) C08F 295/00 (2006.01) C08L 25/06 (2006.01) C08L 53/00 (2006.01) C08L 101/00 (2006.01)**
[25] EN
[54] **USE OF POLYMERS COMPRISING TWO SEGMENTS AS POLYMER ADDITIVES**
[54] **UTILISATION DE POLYMERES COMPRENANT DEUX SEGMENTS COMME ADDITIFS POLYMERES**
[72] SCOTT, PETER, GB
[72] KAY, CHRISTOPHER, GB
[72] LEWTAS, KENNETH, GB
[73] INTERFACE POLYMERS LIMITED, GB
[85] 2018-03-14
[86] 2016-09-09 (PCT/EP2016/071299)
[87] (WO2017/046009)
[30] GB (1516400.7) 2015-09-16

[11] **2,999,574**
[13] C
[51] **Int.Cl. H04L 41/0806 (2022.01) H04L 61/4511 (2022.01) H04L 61/5014 (2022.01) H04L 67/02 (2022.01) H04L 67/06 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SELF-PROVISIONING OF CABLE MODEMS AND MULTIMEDIA TERMINAL ADAPTERS**
[54] **METHODE ET SYSTEME D'AUTO-APPROVISIONNEMENT DE MODEM CABLE ET ADAPTATEUR DE TERMINAL MULTIMEDIA**
[72] RZEZAK, LEANDRO, UY
[72] CLARO, MARTIN, UY
[73] INTRAWAY R&D S.A., UY
[86] (2999574)
[87] (2999574)
[22] 2018-03-28
[30] US (62/477,704) 2017-03-28

[11] **2,999,888**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/10 (2006.01)**
[25] EN
[54] **AFFINITY-OLIGONUCLEOTIDE CONJUGATES AND USES THEREOF**
[54] **CONJUGES AFFINITE-OLIGONUCLEOTIDE ET LEURS UTILISATIONS**
[72] VIGNEAULT, FRANCOIS, US
[72] BRIGGS, ADRIAN WRANGHAM, US
[72] GOLDFLESS, STEPHEN J., US
[72] BELMONT, BRIAN J., US
[73] ABVITRO LLC, US
[85] 2018-03-23
[86] 2016-09-24 (PCT/US2016/053598)
[87] (WO2017/053905)
[30] US (62/232,209) 2015-09-24

[11] **3,002,595**
[13] C
[51] **Int.Cl. G08G 1/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR THE DETECTION OF PEDESTRIANS AND SMALL VEHICLES AT ROADWAY INTERSECTIONS**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE PIETONS ET DE PETITS VEHICULES AUX INTERSECTIONS ROUTIERES**
[72] CROSS, BRAD, US
[72] FRYAR, TERRY, US
[72] FREED, NICHOLAS, US
[73] STC, INC., US
[85] 2018-04-18
[86] 2016-10-20 (PCT/US2016/057954)
[87] (WO2017/070373)
[30] US (62/244,090) 2015-10-20

[11] **3,002,629**
[13] C
[51] **Int.Cl. B60Q 1/26 (2006.01)**
[25] EN
[54] **VEHICULAR NOTIFICATION DEVICE**
[54] **DISPOSITIF DE NOTIFICATION POUR VEHICULE**
[72] TAKAE, YASUHIKO, JP
[72] ETORI, NARIAKI, JP
[72] MORIMOTO, AKIRA, JP
[72] YANO, TAKAHIRO, JP
[72] SHINO, TATSUYA, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2018-04-19
[86] 2015-10-22 (PCT/JP2015/079887)
[87] (WO2017/068693)

[11] **3,003,669**
[13] C
[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/454 (2006.01) A61K 31/55 (2006.01) A61P 25/00 (2006.01) C07D 401/08 (2006.01)**
[25] EN
[54] **OXIME COMPOUNDS AS AGONISTS OF THE MUSCARINIC M1 AND/OR M4 RECEPTOR**
[54] **COMPOSES OXIME A UTILISER EN TANT QU'AGONISTES DU RECEPTEUR MUSCARINIQUE M1 ET/OU M4**
[72] BROWN, GILES ALBERT, GB
[72] TEHAN, BENJAMIN GERALD, GB
[73] HEPTARES THERAPEUTICS LIMITED, GB
[85] 2018-04-30
[86] 2016-11-02 (PCT/GB2016/053396)
[87] (WO2017/077292)
[30] GB (1519352.7) 2015-11-02

[11] **3,004,271**
[13] C
[51] **Int.Cl. H04N 9/47 (2006.01)**
[25] EN
[54] **DYNAMIC DISPLAY CALIBRATION BASED ON EYE-TRACKING**
[54] **ETALONNAGE D'AFFICHAGE DYNAMIQUE BASE SUR UN SUIVI OCULAIRE**
[72] YEOH, IVAN L., US
[72] EDWIN, LIONEL E., US
[72] MILLER, SAMUEL A., US
[73] MAGIC LEAP, INC., US
[85] 2018-05-03
[86] 2016-11-02 (PCT/US2016/060158)
[87] (WO2017/079329)
[30] US (62/250,925) 2015-11-04
[30] US (62/250,934) 2015-11-04
[30] US (62/278,779) 2016-01-14
[30] US (62/278,824) 2016-01-14
[30] US (62/278,794) 2016-01-14

[11] **3,004,278**
[13] C
[51] **Int.Cl. G01N 21/27 (2006.01)**
[25] EN
[54] **LIGHT FIELD DISPLAY METROLOGY**
[54] **METROLOGIE D'AFFICHAGE A CHAMP LUMINEUX**
[72] MILLER, SAMUEL A., US
[72] EDWIN, LIONEL E., US
[72] YEOH, IVAN L., US
[73] MAGIC LEAP, INC., US
[85] 2018-05-03
[86] 2016-11-02 (PCT/US2016/060162)
[87] (WO2017/079333)
[30] US (62/250,925) 2015-11-04
[30] US (62/250,934) 2015-11-04
[30] US (62/278,794) 2016-01-14
[30] US (62/278,824) 2016-01-14
[30] US (62/278,779) 2016-01-14

[11] **3,004,919**
[13] C
[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **IN SITU-GENERATED MICROFLUIDIC ISOLATION STRUCTURES, KITS AND METHODS OF USE THEREOF**
[54] **STRUCTURES D'ISOLATION MICROFLUIDIQUES PRODUITES IN SITU, KITS ET PROCEDES D'UTILISATION DE CELLES-CI**
[72] BEAUMONT, KRISTIN G., US
[72] DING, NAN-LINDA, CA
[72] KURZ, VOLKER L.S., US
[72] LIONBERGER, TROY A., US
[72] LOWE, RANDALL D., JR., US
[72] MALLEO, DANIELE, US
[72] MCFARLAND, ANDREW W., US
[72] NEVILL, J. TANNER, US
[72] WANG, XIAOHUA, US
[73] BERKELEY LIGHTS, INC., US
[85] 2018-05-09
[86] 2016-11-22 (PCT/US2016/063387)
[87] (WO2017/091601)
[30] US (62/258,957) 2015-11-23
[30] US (62/423,627) 2016-11-17

[11] **3,005,606**
[13] C
[51] **Int.Cl. A23L 2/38 (2021.01) A23L 29/10 (2016.01) B01F 23/41 (2022.01) A23D 7/02 (2006.01) A23L 2/385 (2006.01) A23L 2/52 (2006.01)**
[25] EN
[54] **BEVERAGE NANOEMULSIONS PRODUCED BY HIGH SHEAR PROCESSING**
[54] **NANOEMULSIONS DE BREUVAGE PRODUITES PAR TRANSFORMATION A CISAILLEMENT ELEVE**
[72] AHTCHI-ALI, BADREDDINE, US
[73] PEPSICO, INC., US
[85] 2018-05-16
[86] 2016-11-18 (PCT/US2016/062768)
[87] (WO2017/091462)
[30] US (14/952,159) 2015-11-25

[11] **3,005,960**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 36/02 (2006.01)**
[25] EN
[54] **METHOD, APPARATUS, AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH SUPER FOCUSED HEAT**
[54] **PROCEDE, APPAREIL ET SYSTEME D'AMELIORATION DE LA RECUPERATION DE PETROLE ET DE GAZ PAR CHALEUR HYPER-CONCENTREE**
[72] JURANITCH, JAMES C., US
[73] XDI HOLDINGS, LLC, US
[85] 2018-05-22
[86] 2016-11-22 (PCT/US2016/063339)
[87] (WO2017/087989)
[30] US (62/258,512) 2015-11-22

[11] **3,007,624**
[13] C
[51] **Int.Cl. C07C 403/22 (2006.01) C07C 309/18 (2006.01) C07C 309/23 (2006.01) C07C 313/04 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING N-RETINOYLCYSTEIC ACID ALKYL ESTER**
[54] **PROCEDE DE PRODUCTION D'ESTER ALKYLIQUE DE L'ACIDE N-RETINOYLCYSTEIQUE**
[72] BABROU, DZIANIS, SE
[72] BUDNIKAVA, MARYNA, SE
[72] BJORKLUND, MIKAEL, SE
[72] ALEKSOV, JULIAN, SE
[73] VIVESTO AB, SE
[85] 2018-06-06
[86] 2016-12-09 (PCT/SE2016/051238)
[87] (WO2017/099662)
[30] SE (1551615-6) 2015-12-09

[11] **3,007,664**
[13] C
[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/119 (2014.01) H04N 19/136 (2014.01) H04N 19/172 (2014.01) H04N 19/176 (2014.01) H04N 19/50 (2014.01)**
[25] EN
[54] **MULTI-TYPE-TREE FRAMEWORK FOR VIDEO CODING**
[54] **STRUCTURE ARBORESCENTE A TYPES MULTIPLES POUR LE CODAGE VIDEO**
[72] LI, XIANG, US
[72] ZHANG, LI, US
[72] CHIEN, WEI-JUNG, US
[72] CHEN, JIANLE, US
[72] ZHAO, XIN, US
[72] KARCZEWICZ, MARTA, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-06-06
[86] 2017-01-13 (PCT/US2017/013485)
[87] (WO2017/123980)
[30] US (62/279,233) 2016-01-15
[30] US (15/404,634) 2017-01-12

[11] **3,008,006**
[13] C
[51] **Int.Cl. C07D 205/08 (2006.01) A61K 31/397 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **BIARYL MONOBACTAM COMPOUNDS AND METHODS OF USE THEREOF FOR THE TREATMENT OF BACTERIAL INFECTIONS**
[54] **COMPOSES DE BIARYLMONOBACTAME ET PROCEDES D'UTILISATION CORRESPONDANTS POUR LE TRAITEMENT D'INFECTIONS BACTERIENNES**
[72] TANG, HAIFENG, US
[72] LIU, WEIGUO, US
[72] DING, FA-XIANG, US
[72] SUN, WANYING, US
[72] ZANG, YI, US
[72] PAN, WEIDONG, US
[72] OGAWA, ANTHONY, US
[72] BROCKUNIER, LINDA, US
[72] HUANG, XIANHAI, US
[72] WANG, HONGWU, US
[72] MAL, RUDRAJIT, US
[72] BIFTU, TESFAYE, US
[72] PARK, MIN, US
[72] GUO, YAN, US
[72] JIANG, JINLONG, US
[72] CHEN, HELEN, US
[72] PLUMMER, CHRISTOPHER W., US
[73] MERCK SHARP & DOHME LLC, US
[85] 2018-06-08
[86] 2016-12-12 (PCT/US2016/066064)
[87] (WO2017/106064)
[30] US (62/267,855) 2015-12-15

[11] **3,008,169**
[13] C
[51] **Int.Cl. H04W 74/00 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR SELECTING ENHANCED DISTRIBUTED CHANNEL ACCESS PARAMETERS FOR DIFFERENT STATIONS**
[54] **PROCEDES ET APPAREILS DESTINES A LA SELECTION DES PARAMETRES D'ACCES A UN CANAL DISTRIBUE AMELIORE SERVANT DIFFERENTES STATIONS**
[72] ZHOU, YAN, US
[72] MERLIN, SIMONE, US
[72] BARRIAC, GWENDOLYN DENISE, US
[72] ASTERJADHI, ALFRED, US
[72] CHERIAN, GEORGE, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-06-11
[86] 2017-01-13 (PCT/US2017/013451)
[87] (WO2017/123952)
[30] US (62/278,268) 2016-01-13
[30] US (15/405,218) 2017-01-12

[11] **3,008,247**
[13] C
[51] **Int.Cl. A23L 11/00 (2021.01) A23P 30/20 (2016.01) A21D 8/02 (2006.01) A23L 7/109 (2016.01)**
[25] EN
[54] **PULSE-BASED PASTA AND PROCESS FOR MANUFACTURING THE SAME**
[54] **PATE PRODUITE PAR IMPULSION ET PROCEDE DE FABRICATION ASSOCIE**
[72] AL-KATIB, MURAD, CA
[72] BOURASSA, GAETAN, CA
[72] ARSLAN, HUSEYIN, CA
[72] BARTSCH, ERIC, CA
[72] KNUDSON, LES, CA
[72] VITALE, DAVIDE, CA
[72] TULBEK, MEHMET, CA
[73] AGT FOOD AND INGREDIENTS INC., CA
[86] (3008247)
[87] (3008247)
[22] 2018-06-14
[30] US (62/520,369) 2017-06-15

[11] **3,008,311**
[13] C
[51] **Int.Cl. C03B 19/10 (2006.01) B24D 3/00 (2006.01) C03B 23/00 (2006.01) C03C 12/00 (2006.01)**
[25] EN
[54] **GLASS POWDER PRODUCTS, AND PROCESSES AND SYSTEMS FOR THE PRODUCTION THEREOF**
[54] **PRODUITS DE POUDRE DE VERRE, ET PROCEDES ET SYSTEMES DE PRODUCTION ASSOCIES**
[72] SZABO, CRAIG, CA
[73] RAYAN INVESTMENTS LTD., CA
[86] (3008311)
[87] (3008311)
[22] 2018-06-15

[11] **3,008,580**
[13] C
[51] **Int.Cl. B09B 3/00 (2022.01) C01D 3/04 (2006.01) C01F 11/32 (2006.01)**
[25] EN
[54] **METHOD AND ARRANGEMENT FOR RECOVERY OF SALT**
[54] **PROCEDE ET AGENCEMENT POUR RECUPERATION DU SEL**
[72] COHEN, YARIV, SE
[73] EASYMINING SWEDEN AB, SE
[85] 2018-06-14
[86] 2016-12-19 (PCT/SE2016/051282)
[87] (WO2017/111685)
[30] SE (1551685-9) 2015-12-21

[11] **3,009,731**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01)**
[25] EN
[54] **SECURE MULTIPARTY LOSS RESISTANT STORAGE AND TRANSFER OF CRYPTOGRAPHIC KEYS FOR BLOCKCHAIN BASED SYSTEMS IN CONJUNCTION WITH A WALLET MANAGEMENT SYSTEM**
[54] **STOCKAGE SECURISE RESISTANT A UNE PERTE MULTIPARTITE ET TRANSFERT DE CLES CRYPTOGRAPHIQUES POUR DES SYSTEMES BASES SUR UNE CHAINE DE BLOCS CONJOINTEMENT AVEC UN SYSTEME DE GESTION DE PORTEFEUILLE**
[72] WRIGHT, CRAIG STEVEN, GB
[72] SAVANAH, STEPHANE, GB
[73] NCHAIN HOLDINGS LIMITED, AG
[85] 2018-06-26
[86] 2017-02-14 (PCT/IB2017/050829)
[87] (WO2017/145010)
[30] GB (1603117.1) 2016-02-23
[30] GB (1605026.2) 2016-03-24
[30] GB (1619301.3) 2016-11-15

[11] **3,011,071**
[13] C
[51] **Int.Cl. B67D 1/08 (2006.01)**
[25] EN
[54] **CARTRIDGE RECEIVER, CARTRIDGE SYSTEM, DRINK PREPARATION MACHINE AND METHOD FOR PRODUCING A DRINK**
[54] **LOGEMENT DE CARTOUCHE, SYSTEME DE CARTOUCHE, MACHINE DE PREPARATION DE BOISSONS ET PROCEDE DE PREPARATION D'UNE BOISSON**
[72] KRUGER, MARC, DE
[72] EMPL, GUNTER, DE
[72] FISCHER, DANIEL, CH
[73] FREEZIO AG, CH
[85] 2018-07-10
[86] 2017-01-12 (PCT/EP2017/050565)
[87] (WO2017/121800)
[30] DE (10 2016 200 254.6) 2016-01-12
[30] DE (10 2016 212 012.3) 2016-07-01
[30] DE (10 2016 212 013.1) 2016-07-01
[30] DE (10 2016 218 509.8) 2016-09-27
[30] DE (10 2016 218 507.1) 2016-09-27
[30] DE (10 2016 218 884.4) 2016-09-29

[11] **3,011,214**
[13] C
[51] **Int.Cl. B65G 1/00 (2006.01)**
[25] EN
[54] **ABNORMALITY DETECTION DEVICE FOR CONTAINER STACK**
[54] **DISPOSITIF DE DETECTION D'ANOMALIES POUR PILE DE CONTENEURS**
[72] HAMAGUCHI, JUN, JP
[73] DAIFUKU CO., LTD., JP
[85] 2018-07-11
[86] 2016-12-13 (PCT/JP2016/087044)
[87] (WO2017/122482)
[30] JP (2016-003254) 2016-01-12

[11] **3,011,264**
[13] C
[51] **Int.Cl. A01N 33/22 (2006.01) A01N 25/04 (2006.01) A01N 25/22 (2006.01) A01N 25/30 (2006.01) A01N 43/40 (2006.01) A01N 43/82 (2006.01)**
[25] EN
[54] **AQUEOUS DISPERSIONS CONTAINING ACLONIFEN AND FLUFENACET**
[54] **DISPERSIONS AQUEUSES CONTENANT DE L'ACLONIFENE ET DU FLUFENACET**
[72] KRAUSE, JENS, DE
[72] DECKWER, ROLAND, DE
[73] BAYER CROPSCIENCE AKTIENGESELLSCHAFT, DE
[85] 2018-07-12
[86] 2017-01-09 (PCT/EP2017/050313)
[87] (WO2017/121695)
[30] EP (16151491.4) 2016-01-15

[11] **3,011,335**
[13] C
[51] **Int.Cl. H04W 74/0833 (2024.01) H04W 56/00 (2009.01) H04W 72/02 (2009.01)**
[25] EN
[54] **USER TERMINAL, RADIO BASE STATION, AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL UTILISATEUR, STATION DE BASE SANS FIL ET PROCEDE DE COMMUNICATION SANS FIL**
[72] HARADA, HIROKI, JP
[72] TAKEDA, KAZUKI, JP
[72] TAKEDA, KAZUAKI, JP
[72] KISHIYAMA, YOSHIHISA, JP
[72] NAGATA, SATOSHI, JP
[73] NTT DOCOMO, INC., JP
[85] 2018-07-12
[86] 2017-01-25 (PCT/JP2017/002422)
[87] (WO2017/130989)
[30] JP (2016-016193) 2016-01-29

[11] **3,013,164**
[13] C
[51] **Int.Cl. A61G 5/14 (2006.01) A61G 5/06 (2006.01) A61H 3/00 (2006.01) A61H 3/04 (2006.01)**
[25] EN
[54] **SUPPORTING STRUCTURE**
[54] **STRUCTURE DE SUPPORT**
[72] LINON, RODOLPHE, FR
[73] HEXOWHEEL, FR
[85] 2018-07-30
[86] 2017-02-14 (PCT/EP2017/053331)
[87] (WO2017/140694)
[30] EP (16305189.9) 2016-02-18

[11] **3,013,192**
[13] C
[51] **Int.Cl. H01H 9/10 (2006.01) H01H 1/20 (2006.01)**
[25] EN
[54] **FUSIBLE SWITCH DISCONNECT DEVICE FOR DC ELECTRICAL POWER SYSTEM**
[54] **DISPOSITIF DE DECONNEXION D'INTERRUPTEUR A FUSIBLE POUR SYSTEME D'ALIMENTATION ELECTRIQUE**
[72] SHEA, JOHN JOSEPH, US
[72] WANG, HONGBIN, US
[72] ROLLMANN, PAUL J., US
[72] DARR, MATTHEW RAIN, US
[73] EATON INTELLIGENT POWER LIMITED, IE
[85] 2018-07-30
[86] 2017-01-09 (PCT/US2017/012686)
[87] (WO2017/136103)
[30] US (15/015,500) 2016-02-04

[11] **3,013,625**
[13] C
[51] **Int.Cl. C01B 32/15 (2017.01)**
[25] EN
[54] **CARBON DOTS FOR DIAGNOSTIC ANALYSIS AND DRUG DELIVERY**
[54] **POINTS DE CARBONE POUR UNE ANALYSE DIAGNOSTIQUE ET L'ADMINISTRATION DE MEDICAMENTS**
[72] LI, SHANGHAO, US
[72] LEBLANC, ROGER M., US
[72] SKROMNE, ISAAC, US
[72] PENG, ZHILI, US
[73] UNIVERSITY OF MIAMI, US
[85] 2018-08-02
[86] 2017-02-06 (PCT/US2017/016743)
[87] (WO2017/136846)
[30] US (62/292,026) 2016-02-05

[11] **3,014,507**
[13] C
[51] **Int.Cl. G01F 1/28 (2006.01) B33Y 80/00 (2015.01)**
[25] EN
[54] **PRODUCT DETECTOR**
[54] **DETECTEUR DE PRODUIT**
[72] GOYETTE, STEPHANE, CA
[73] GEBO CERMEX CANADA INC., CA
[85] 2018-08-14
[86] 2016-02-19 (PCT/IB2016/000157)
[87] (WO2017/141066)

[11] **3,014,508**
[13] C
[51] **Int.Cl. G01D 5/32 (2006.01) G02B 6/124 (2006.01) G02B 6/136 (2006.01) G02B 6/34 (2006.01)**
[25] EN
[54] **LOW INSERTION LOSS HIGH TEMPERATURE STABLE FIBER BRAGG GRATING SENSOR AND METHOD FOR PRODUCING SAME**
[54] **CAPTEUR A RESEAU DE BRAGG SUR FIBRE STABLE A HAUTE TEMPERATURE ET A FAIBLE PERTE D'INSERTION, ET PROCEDE DE FABRICATION DE CE CAPTEUR**
[72] GROBNIC, DAN, CA
[72] MIHAILOV, STEPHEN, CA
[72] WALKER, ROBERT, CA
[72] LU, PING, CA
[72] DING, HUIMIN, CA
[72] COULAS, DAVID, CA
[72] HNATOVSKY, CYRIL, CA
[73] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2018-08-14
[86] 2017-02-16 (PCT/IB2017/050882)
[87] (WO2017/141188)
[30] US (62/295,772) 2016-02-16

[11] **3,014,634**
[13] C
[51] **Int.Cl. G21F 9/12 (2006.01) B01J 20/18 (2006.01) B01J 20/28 (2006.01) C01B 39/18 (2006.01) C01B 39/22 (2006.01) G21F 9/02 (2006.01)**
[25] EN
[54] **TREATMENT METHOD OF RADIOACTIVE IODINE-CONTAINING FLUID**
[54] **PROCEDE POUR TRAITER UN FLUIDE CONTENANT DE L'IODE RADIOACTIF**
[72] SAKUMA, TAKASHI, JP
[72] KOMATSU, MAKOTO, JP
[72] IZUMI, TAKESHI, JP
[72] TOKUNAGA, KEISUKE, JP
[72] HIRANO, SHIGERU, JP
[73] EBARA CORPORATION, JP
[73] TOSOH CORPORATION, JP
[85] 2018-08-14
[86] 2017-02-23 (PCT/JP2017/006750)
[87] (WO2017/146130)
[30] JP (2016-035352) 2016-02-26

[11] **3,016,842**
[13] C
[51] **Int.Cl. B66B 19/00 (2006.01)**
[25] EN
[54] **METHOD AND MOUNTING DEVICE FOR CARRYING OUT AN INSTALLATION OPERATION IN A LIFT SHAFT OF A LIFT SYSTEM**
[54] **PROCEDE ET DISPOSITIF DE MONTAGE POUR METTRE EN OEUVRE UN PROCESSUS D'INSTALLATION DANS UNE CAGE D'ASCENSEUR D'UNE INSTALLATION D'ASCENSEUR**
[72] CAMBRUZZI, ANDREA, CH
[72] ZIMMERLI, PHILIPP, CH
[72] BITZI, RAPHAEL, CH
[72] BUTLER, ERICH, CH
[73] INVENTIO AG, CH
[85] 2018-09-06
[86] 2017-03-28 (PCT/EP2017/057259)
[87] (WO2017/167719)
[30] EP (16163399.5) 2016-03-31

[11] **3,016,932**
[13] C
[51] **Int.Cl. G21C 19/303 (2006.01) G21F 9/02 (2006.01)**
[25] EN
[54] **SODIUM-CESIUM VAPOR TRAP SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE PIEGE A VAPEUR DE SODIUM-CESIUM**
[72] ANDERSON, MICHAEL, US
[72] BURKE, THOMAS M., US
[72] CORBIN, ROBERT A., US
[72] REGAN, CHIRSTOPHER M., US
[73] TERRAPOWER, LLC, US
[85] 2018-09-07
[86] 2017-05-19 (PCT/US2017/033578)
[87] (WO2018/044370)
[30] US (62/339,225) 2016-05-20

[11] **3,017,896**
[13] C
[51] **Int.Cl. G21C 3/62 (2006.01) G21C 1/07 (2006.01)**
[25] EN
[54] **PROCESS FOR RAPID PROCESSING OF SIC AND GRAPHITIC MATRIX TRISO-BEARING PEBBLE FUELS**
[54] **PROCEDE DE TRAITEMENT RAPIDE DE COMBUSTIBLES EN BOULET DE PARTICULES TRISO A MATRICE DE SIC ET GRAPHITIQUE**
[72] VENNERI, FRANCESCO, US
[73] ULTRA SAFE NUCLEAR CORPORATION, US
[85] 2018-09-14
[86] 2017-02-28 (PCT/US2017/019887)
[87] (WO2017/172177)
[30] US (62/314,705) 2016-03-29

[11] **3,019,649**
[13] C
[51] **Int.Cl. C08J 3/05 (2006.01)**
[25] EN
[54] **A PROCESS AND APPARATUS FOR PRODUCING AN AQUEOUS POLYMER SOLUTION**
[54] **PROCEDE ET APPAREIL DE PRODUCTION D'UNE SOLUTION AQUEUSE DE POLYMERE**
[72] JECK, SANDRA, DE
[72] SOETJE, OLIVER, DE
[72] BRINGMANN, TOBIAS, DE
[72] FONSECA ZEPEDA, GABRIELA EUGENIA, DE
[72] MECKELNBURG, DIRK, DE
[72] LOESCH, DENNIS, DE
[72] LANGLOTZ, BJOERN, DE
[72] BARRATT, JOHN, GB
[72] EL-TOUFAILI, FAISSAL-ALI, DE
[72] SCHUBE, BERND, DE
[72] OSTERMAYR, MARKUS, DE
[72] SPRAFKE, HAZEL, DE
[73] BASF SE, DE
[85] 2018-10-01
[86] 2017-04-20 (PCT/EP2017/059392)
[87] (WO2017/186567)
[30] EP (16167005.4) 2016-04-26

[11] **3,020,006**
[13] C
[51] **Int.Cl. A61F 9/008 (2006.01)**
[25] FR
[54] **OPTICAL SCANNER FOR A HUMAN OR ANIMAL TISSUE CUTTING DEVICE**
[54] **SCANNER OPTIQUE DE BALAYAGE D'UN APPAREIL DE DECOUPE D'UN TISSU HUMAIN OU ANIMAL**
[72] ROMANO, FABRIZIO, FR
[72] BERNARD, AURELIEN, FR
[72] MAUCLAIR, CYRIL, FR
[72] BAUBEAU, EMMANUEL, FR
[73] KERANOVA, FR
[73] LE CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[73] UNIVERSITE JEAN MONNET SAINT ETIENNE, FR
[85] 2018-10-04
[86] 2017-04-06 (PCT/EP2017/058225)
[87] (WO2017/174711)
[30] FR (1653038) 2016-04-06
[30] FR (1653039) 2016-04-06
[30] FR (1653040) 2016-04-06
[30] FR (1657386) 2016-07-29

[11] **3,021,066**
[13] C
[51] **Int.Cl. A61K 31/455 (2006.01) A61K 31/606 (2006.01)**
[25] EN
[54] **ORAL PHARMACEUTICAL COMPOSITIONS OF NICOTINAMIDE**
[54] **COMPOSITIONS PHARMACEUTIQUES ORALES DE NICOTINAMIDE**
[72] LIANG, ALFRED CHI YEH, US
[72] DINGARI, VENKATARAMANA, US
[73] CONARIS RESEARCH INSTITUTE AG, DE
[85] 2018-10-15
[86] 2017-04-18 (PCT/US2017/028063)
[87] (WO2017/184563)
[30] US (62/324,415) 2016-04-19

[11] **3,021,144**
[13] C
[51] **Int.Cl. A23L 21/00 (2016.01) A23L 21/25 (2016.01) A61K 31/352 (2006.01)**
[25] EN
[54] **CANNABIS-ENRICHED ENZYMATICALLY TREATED THERAPEUTIC COMPOSITION**
[54] **COMPOSITION THERAPEUTIQUE TRAITEE PAR VOIE ENZYMATIQUE ENRICHIE EN CANNABIS**
[72] EYAL, AHARON M., IL
[73] CANNA-B CURE LTD, IL
[85] 2018-10-15
[86] 2017-04-18 (PCT/IB2017/052214)
[87] (WO2017/182950)
[30] US (62/324,577) 2016-04-19
[30] US (62/324,594) 2016-04-19

[11] **3,021,506**
[13] C
[51] **Int.Cl. C08L 27/06 (2006.01)**
[25] EN
[54] **ORIENTED THERMOPLASTIC POLYMER COMPOSITION COMPRISING POLYVINYL CHLORIDE FORMULATION AND AN ACRYLIC COPOLYMER AS PROCESS AID**
[54] **COMPOSITION DE POLYMERE THERMOPLASTIQUE ORIENTE COMPRENANT UNE FORMULATION DE POLY(CHLORURE DE VINYLE) ET UN COPOLYMERE ACRYLIQUE EN TANT QU'AIDE AU TRAITEMENT**
[72] PETR, MICHAEL T., US
[73] ROHM AND HAAS COMPANY, US
[85] 2018-10-18
[86] 2017-04-19 (PCT/US2017/028336)
[87] (WO2017/184711)
[30] US (62/325,036) 2016-04-20
[30] US (62/442,518) 2017-01-05

[11] **3,022,026**
[13] C
[51] **Int.Cl. A01N 43/16 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **AN AGRICULTURAL AND HORTICULTURAL FUNGICIDE COMPOSITION COMPRISING PRUMYCIN AND SURFACTIN, AND A PLANT DISEASE CONTROLLING METHOD**
[54] **COMPOSITION FONGICIDE AGRICOLE ET HORTICOLE COMPRENANT UNE PURMYCINE ET UNE SURFACTINE, ET METHODE DE CONTROLE DES MALADIES DES PLANTES**
[72] TANAKA, KEIJITSU, JP
[72] MIYAZAKI, MUTSUMI, JP
[72] AMAKI, YUSUKE, JP
[73] SDS BIOTECH K. K., JP
[85] 2018-10-24
[86] 2016-08-09 (PCT/JP2016/073402)
[87] (WO2018/029775)

[11] **3,022,104**
[13] C
[51] **Int.Cl. A01N 1/02 (2006.01)**
[25] EN
[54] **ORGAN CARE SOLUTION FOR EX-VIVO MACHINE PERFUSION OF DONOR LUNGS**
[54] **SOLUTION OCS POUR PERFUSION EX VIVO DE GREFFONS PULMONAIRES**
[72] ABDELAZIM, ANAS, US
[72] FATTAH, IHAB ABDEL, US
[72] HASSANEIN, WALEED H., US
[72] HAVENER, ROBERT, US
[72] KHAYAL, TAMER I., US
[72] LEZBERG, PAUL, US
[73] TRANSMEDICS, INC., US
[86] (3022104)
[87] (3022104)
[22] 2012-04-13
[62] 2,833,266
[30] US (61/475,524) 2011-04-14

[11] **3,023,481**
[13] C
[51] **Int.Cl. G06F 15/173 (2006.01)**
[25] EN
[54] **MOBILE OVERLAY VIRTUAL ENTERPRISE NETWORK AND VIRTUAL INTERNET FOR ENTERPRISES**
[54] **RESEAU D'ENTREPRISE VIRTUEL SUPERPOSE MOBILE, ET INTERNET VIRTUEL POUR ENTREPRISES**
[72] LANDAU, JOHN, US
[72] ZINO, GALEAL, US
[73] NETFOUNDRY INC., US
[85] 2018-11-06
[86] 2017-05-26 (PCT/US2017/034704)
[87] (WO2017/205755)
[30] US (62/341,719) 2016-05-26

[11] **3,024,067**
[13] C
[51] **Int.Cl. C07D 451/10 (2006.01) A61K 31/404 (2006.01) A61K 31/46 (2006.01) C07D 209/04 (2006.01)**
[25] EN
[54] **COMPOUNDS TO PROMOTE NORMAL PROCESSING OF APP**
[54] **COMPOSES POUR FAVORISER LE TRAITEMENT NORMAL DE L'APP**
[72] JOHN, VARGHESE, US
[72] BREDESEN, DALE E., US
[72] SPILMAN, PATRICIA R., US
[72] JAGODZINSKA, BARBARA, US
[73] BUCK INSTITUTE FOR RESEARCH ON AGING, US
[85] 2018-11-09
[86] 2017-05-11 (PCT/US2017/032251)
[87] (WO2017/197177)
[30] US (62/335,533) 2016-05-12

[11] **3,024,078**
[13] C
[51] **Int.Cl. G06F 8/00 (2018.01) G06F 8/34 (2018.01) G06F 16/958 (2019.01)**
[25] EN
[54] **CREATION AND UPDATE OF HIERARCHICAL WEBSITES BASED ON COLLECTED BUSINESS KNOWLEDGE**
[54] **CREATION ET MISE A JOUR DE SITES WEB HIERARCHIQUES EN FONCTION DE CONNAISSANCES D'ENTREPRISE RECUEILLIES**
[72] PHILOSOPH, MOR, IL
[72] KOREN, DAN, IL
[72] DREIZIS, ILANA, IL
[72] ZELMANOVICH, IGOR, IL
[72] SADEH, EYAL, IL
[73] WIX.COM LTD., IL
[85] 2018-11-13
[86] 2017-05-29 (PCT/IB2017/053153)
[87] (WO2017/208135)
[30] US (62/342,955) 2016-05-29
[30] US (62/346,581) 2016-06-07

[11] **3,024,858**
[13] C
[51] **Int.Cl. F16K 15/03 (2006.01) F16K 1/42 (2006.01) F16K 1/46 (2006.01) F16K 15/00 (2006.01)**
[25] EN
[54] **IMPROVED CHECK VALVE**
[54] **CLAPET ANTI-RETOUR AMELIORE**
[72] FINK, DANIEL R., US
[73] FMC TECHNOLOGIES, INC., US
[85] 2018-11-19
[86] 2017-05-22 (PCT/US2017/033883)
[87] (WO2017/205303)
[30] US (62/340,063) 2016-05-23

[11] **3,024,965**
[13] C
[51] **Int.Cl. G21C 3/42 (2006.01)**
[25] EN
[54] **FUEL COMPOSITION FOR NUCLEAR POWER PLANT WITH PRESSURIZED WATER REACTORS**
[54] **COMPOSITION DE CARBURANT POUR UNE CENTRALE NUCLEAIRE COMPRENANT DES REACTEURS A EAU SOUS PRESSION**
[72] ZIL'BERMAN, BORIS YAKOVLEVICH, RU
[72] GOLETSKIJ, NIKOLAJ DMITRIEVICH, RU
[72] KOVALEV, NIKITA VLADIMIROVICH, RU
[72] SINYUKHIN, ANDREJ BORISOVICH, RU
[73] AKCIONERNOE OBSHCHESTVO "RADIEVYY INSTITUT IMENI V.G. KHLOPINA", RU
[85] 2018-11-22
[86] 2017-12-25 (PCT/RU2017/000932)
[87] (WO2019/103642)
[30] RU (2017141358) 2017-11-27

[11] **3,026,049**
[13] C
[51] **Int.Cl. G01N 33/483 (2006.01) G01N 33/487 (2006.01) G01N 33/49 (2006.01) G01N 33/50 (2006.01) G01N 33/52 (2006.01)**
[25] EN
[54] **MASS SPECTROMETRY METHOD FOR DETECTION AND QUANTITATION OF METABOLITES**
[54] **PROCEDE DE SPECTROMETRIE DE MASSE DESTINEE A LA DETECTION ET LA QUANTIFICATION DE METABOLITES**
[72] FORD, LISA, US
[72] ZHANG, QIBO, US
[72] ADAM, KLAUS PETER, US
[73] METABOLON, INC., US
[85] 2018-11-28
[86] 2017-05-26 (PCT/US2017/034605)
[87] (WO2017/210097)
[30] US (62/344,613) 2016-06-02

[11] **3,026,306**
[13] C
[51] **Int.Cl. C11B 1/02 (2006.01) C10L 1/02 (2006.01) C11B 1/04 (2006.01)**
[25] EN
[54] **INTEGRATED PROCESS FOR THE PRE-TREATMENT OF BIOMASS AND PRODUCTION OF BIO-OIL**
[54] **PROCEDE INTEGRE POUR LE PRE-TRAITEMENT DE BIOMASSE ET LA PRODUCTION DE BIO-HUILE**
[72] RIBEIRO DE LIMA, DANILO, BR
[72] ANTUNES GUIMARAES, MATHEUS, BR
[72] FREEL, BARRY, CA
[72] D. HOPKINS, GEOFFREY, CA
[73] ENSYN RENEWABLES, INC., US
[73] SUZANO S.A., BR
[85] 2018-11-23
[86] 2017-05-26 (PCT/BR2017/050133)
[87] (WO2017/201598)
[30] US (62/341,671) 2016-05-26
[30] US (62/490,966) 2017-04-27

[11] **3,026,503**
[13] C
[51] **Int.Cl. G08B 29/04 (2006.01) F24F 11/36 (2018.01) F25B 49/02 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR REFRIGERANT DETECTOR CALIBRATION CONFIRMATION**
[54] **METHODE ET APPAREIL DE CONFIRMATION D'ETALONNAGE DE DETECTEUR DE FRIGORIGENE**
[72] GOEL, RAKESH, US
[72] USELTON, ROBERT B., US
[72] BERG, ERIC, US
[72] OLSEN, MARK, US
[73] LENNOX INDUSTRIES INC., US
[86] (3026503)
[87] (3026503)
[22] 2018-12-05
[30] US (15/848,637) 2017-12-20

[11] **3,026,534**
[13] C
[51] **Int.Cl. E21B 23/00 (2006.01)**
[25] EN
[54] **LIGHT AND BUOYANT RETREIVABLE WELLBORE TOOL AND METHOD**
[54] **OUTIL DE TROU DE FORAGE EXTRAYABLE FLOTTANT ET LEGER ET METHODE**
[72] CABOT, BERNIE, CA
[72] CRAMER, DAVID, CA
[73] NAUTONNIER HOLDING CORP., CA
[86] (3026534)
[87] (3026534)
[22] 2018-12-03
[30] US (62/594,463) 2017-12-04
[30] US (62/649,837) 2018-03-29

---

[11] **3,026,965**
[13] C
[51] **Int.Cl. B32B 5/02 (2006.01) A41C 3/00 (2006.01) A41C 3/14 (2006.01) B32B 5/26 (2006.01)**
[25] EN
[54] **NATURAL FIBER MOLDED GARMENT**
[54] **VETEMENT MOULE EN FIBRES NATURELLES**
[72] TURLAN-VAN DER HOEVEN, MANON, FR
[73] HANES OPERATIONS EUROPE SAS, FR
[85] 2018-12-07
[86] 2017-06-07 (PCT/EP2017/063869)
[87] (WO2017/211907)
[30] EP (16290104.5) 2016-06-08

---

[11] **3,028,990**
[13] C
[51] **Int.Cl. B01D 46/52 (2006.01) B01D 46/10 (2006.01)**
[25] EN
[54] **COMPOUND AIR FILTERS AND METHODS THEREOF**
[54] **FILTRES A AIR CONTENANT DES COMPOSES ET PROCEDES ASSOCIES AUXDITS FILTRES**
[72] WALL, JERE JAMES, US
[73] K&N ENGINEERING, INC., US
[85] 2018-12-20
[86] 2017-06-23 (PCT/US2017/039124)
[87] (WO2017/223521)
[30] US (62/354,549) 2016-06-24
[30] US (15/632,139) 2017-06-23

---

[11] **3,029,553**
[13] C
[51] **Int.Cl. H04L 12/28 (2006.01) H04L 41/08 (2022.01)**
[25] EN
[54] **SYSTEM FOR PROVIDING DATA COMMUNICATION OVER A COAXIAL NETWORK**
[54] **SYSTEME DE COMMUNICATION DE DONNEES SUR UN RESEAU COAXIAL**
[72] KARLSSON, CARL, SE
[73] INCOAX NETWORKS AB, SE
[85] 2018-12-31
[86] 2017-05-11 (PCT/EP2017/061252)
[87] (WO2018/007057)
[30] EP (16178618.1) 2016-07-08

---

[11] **3,029,823**
[13] C
[51] **Int.Cl. C23F 13/06 (2006.01) C23F 13/10 (2006.01)**
[25] EN
[54] **AUTONOMOUS IMPRESSED CURRENT CATHODIC PROTECTION DEVICE ON METAL SURFACES WITH A SPIRAL MAGNESIUM ANODE**
[54] **DISPOSITIF DE PROTECTION CATHODIQUE A COURANT IMPOSE AUTONOME SUR DES SURFACES METALLIQUES AVEC UNE ANODE EN MAGNESIUM EN SPIRALE**
[72] KOUNADINIS, NIKITAS, GR
[73] KOUNADINI, IOANNA, GR
[73] KOUNADINI, SOFIA, GR
[85] 2019-01-03
[86] 2017-07-11 (PCT/GR2017/000039)
[87] (WO2018/011608)
[30] GR (2016100387) 2016-07-14

---

[11] **3,031,648**
[13] C
[51] **Int.Cl. H02H 9/04 (2006.01) H02J 7/14 (2006.01)**
[25] EN
[54] **SWITCHING MODE FRONT END SURGE PROTECTION CIRCUIT**
[54] **CIRCUIT DE PROTECTION DE SURTENSION D'EXTREMITE AVANT A MODE DE COMMUTATION**
[72] ZHAN, JACK, CA
[73] NOVATEL INC., CA
[86] (3031648)
[87] (3031648)
[22] 2019-01-28
[30] US (15/883,184) 2018-01-30

---

[11] **3,032,717**
[13] C
[51] **Int.Cl. H04L 9/32 (2006.01) G06F 21/44 (2013.01)**
[25] EN
[54] **IMPROVED SECURITY USING SELF-SIGNED CERTIFICATE THAT INCLUDES AN OUT-OF-BAND SHARED SECRET**
[54] **SECURITE AMELIOREE AU MOYEN DE CERTIFICAT AUTO-SIGNE QUI COMPREND UN SECRET PARTAGE HORS BANDE**
[72] MICHAUD, TED R., US
[72] BAKER, PAUL D., US
[73] ARRIS ENTERPRISES LLC, US
[86] (3032717)
[87] (3032717)
[22] 2019-02-05
[30] US (62/626,401) 2018-02-05

---

[11] **3,033,780**
[13] C
[51] **Int.Cl. H04L 47/11 (2022.01) H04L 47/21 (2022.01) H04L 47/22 (2022.01) H04L 47/24 (2022.01)**
[25] EN
[54] **DYNAMIC CONGESTION MANAGEMENT**
[54] **GESTION DYNAMIQUE D'ENCOMBREMENT**
[72] MOUSSA, HESHAM, GB
[73] TATA COMMUNICATIONS (UK) LIMITED, GB
[85] 2019-02-12
[86] 2017-08-15 (PCT/IB2017/054968)
[87] (WO2018/033858)
[30] US (62/375,184) 2016-08-15

[11] **3,034,619**
[13] C
[51] **Int.Cl. G02B 5/18 (2006.01) B82Y 40/00 (2011.01) G03F 7/00 (2006.01)**
[25] EN
[54] **EDGE SEALANT CONFINEMENT AND HALO REDUCTION FOR OPTICAL DEVICES**
[54] **CONFINEMENT DE PRODUIT D'ETANCHEITE DE BORD ET REDUCTION DE HALO POUR DISPOSITIFS OPTIQUES**
[72] MILLER, MIKE NEVIN, US
[72] XU, FRANK Y., US
[72] SINGH, VIKRAMJIT, US
[72] BROWY, ERIC C., US
[72] SCHAEFER, JASON, US
[72] TEKOLSTE, ROBERT D., US
[72] LIU, VICTOR KAI, US
[72] BHARGAVA, SAMARTH, US
[72] SCHMULEN, JEFFREY DEAN, US
[72] SCHOWENGERDT, BRIAN T., US
[73] MOLECULAR IMPRINTS, INC., US
[85] 2019-02-21
[86] 2017-08-24 (PCT/US2017/048442)
[87] (WO2018/039468)
[30] US (62/380,066) 2016-08-26

[11] **3,034,972**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 38/00 (2006.01)**
[25] EN
[54] **A PHARMACEUTICAL INSULIN FORMULATION**
[54] **FORMULATION D'INSULINE PHARMACEUTIQUE**
[72] GERRING, DAVID, GB
[72] HOWELL, SARAH, GB
[72] JEZEK, JAN, GB
[72] ZAKRZEWSKI, LEON, GB
[73] ARECOR LIMITED, GB
[85] 2019-02-25
[86] 2017-09-29 (PCT/GB2017/052941)
[87] (WO2018/060736)
[30] GB (1616509.4) 2016-09-29
[30] GB (1617866.7) 2016-10-21
[30] GB (1707190.3) 2017-05-05

[11] **3,035,129**
[13] C
[51] **Int.Cl. B01J 37/02 (2006.01) B01D 53/72 (2006.01) B01D 53/94 (2006.01) B01J 21/06 (2006.01) B01J 23/38 (2006.01) B01J 23/44 (2006.01) B01J 37/08 (2006.01)**
[25] EN
[54] **METHANE OXIDATION CATALYST, PROCESS TO PREPARE THE SAME AND METHOD OF USING THE SAME**
[54] **CATALYSEUR D'OXYDATION DU METHANE, SON PROCEDE DE PREPARATION ET SON PROCEDE D'UTILISATION**
[72] TANEV, PETER TANEV, US
[72] SOORHOLTZ, MARIO, DE
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2019-02-26
[86] 2017-08-16 (PCT/EP2017/070732)
[87] (WO2018/041632)
[30] US (62/381,664) 2016-08-31

[11] **3,035,692**
[13] C
[51] **Int.Cl. A47J 37/07 (2006.01)**
[25] EN
[54] **DISPOSABLE GRILL AND METHOD OF MANUFACTURING A DISPOSABLE GRILL**
[54] **GRILL JETABLE ET PROCEDE DE FABRICATION D'UN GRILL JETABLE**
[72] BROGGER, CARSTEN NYGAARD, DK
[73] NOVO FUTURA IVS, DK
[85] 2019-03-04
[86] 2016-09-02 (PCT/DK2016/050293)
[87] (WO2018/041312)

[11] **3,035,855**
[13] C
[51] **Int.Cl. B65D 75/58 (2006.01) B65D 47/10 (2006.01)**
[25] EN
[54] **NOZZLE**
[54] **BUSE**
[72] NICHOLLS, DARREN, GB
[72] WILSON, SIMON, GB
[73] LAVAZZA PROFESSIONAL NORTH AMERICA, LLC, US
[85] 2019-03-05
[86] 2017-09-06 (PCT/GB2017/052597)
[87] (WO2018/046914)
[30] GB (1615069.0) 2016-09-06

[11] **3,036,642**
[13] C
[51] **Int.Cl. C07D 401/06 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING (R)-5-(3,4-DIFLUOROPHENYL)-5-[(3-METHYL-2-OXOPYRIDIN-1(2H)-YL)METHYL]IMIDAZOLIDIN-2,4-DIONE AND INTERMEDIATE FOR PRODUCING SAME**
[54] **PROCEDE DE PRODUCTION DE (R)-5-(3,4-DIFLUOROPHENYL)-5-[(3-METHYL-2-OXOPYRIDIN -1 (2H)-YL) METHYL] IMIDAZOLIDINE -2,4-DIONE ET INTERMEDIAIRE POUR SA PRODUCTION**
[72] SUMIKAWA, YOSHITAKE, JP
[72] KAMEI, NORIYUKI, JP
[72] TODO, SHINGO, JP
[73] KAKEN PHARMACEUTICAL CO., LTD., JP
[85] 2019-03-12
[86] 2017-09-21 (PCT/JP2017/034151)
[87] (WO2018/056373)
[30] JP (2016-185325) 2016-09-23

[11] **3,037,162**
[13] C
[51] **Int.Cl. E21B 34/10 (2006.01) E21B 34/06 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **WELLBORE FLOW CONTROL APPARATUS WITH SOLIDS CONTROL**
[54] **APPAREIL DE COMMANDE D'ECOULEMENT DE PUITS DE FORAGE AVEC REGULATION DE SOLIDES**
[72] WERRIES, MICHAEL, CA
[72] WHYTE, RIO, CA
[72] ELLIS, DUSTIN, US
[73] NCS MULTISTAGE INC., CA
[85] 2019-03-15
[86] 2017-09-15 (PCT/CA2017/051093)
[87] (WO2018/049533)
[30] US (62/395,776) 2016-09-16

[11] **3,038,343**
[13] C
[51] **Int.Cl. G01F 15/063 (2022.01) G01F 1/66 (2022.01) G01F 15/04 (2006.01) G01F 15/075 (2006.01)**
[25] EN
[54] **EFFICIENT BATTERY-POWERED METER**
[54] **COMPTEUR EFFICACE ALIMENTE PAR BATTERIE**
[72] ILIEV, GEORGE, US
[72] RIGDON, KENNETH CHARLES, US
[72] DE JAGER, JOHANN, US
[73] ITRON, INC., US
[85] 2019-03-22
[86] 2017-09-25 (PCT/US2017/053332)
[87] (WO2018/058074)
[30] US (62/399,799) 2016-09-26

---

[11] **3,039,511**
[13] C
[51] **Int.Cl. B32B 5/02 (2006.01) B32B 5/12 (2006.01) B32B 5/16 (2006.01) B32B 5/24 (2006.01) B32B 5/26 (2006.01) B32B 27/32 (2006.01)**
[25] EN
[54] **STRETCHABLE LAMINATES**
[54] **STRATIFIES ETIRABLES**
[72] KELSEY, WILLIAM, US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2019-04-04
[86] 2017-10-03 (PCT/US2017/054888)
[87] (WO2018/067529)
[30] US (62/403,805) 2016-10-04

---

[11] **3,041,019**
[13] C
[51] **Int.Cl. A61B 5/055 (2006.01) A61B 5/113 (2006.01)**
[25] EN
[54] **SCANNING AND TRACKING MONITORING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE SURVEILLANCE DE BALAYAGE ET DE SUIVI**
[72] OLESEN, OLINE VINTER, DK
[72] BENJAMINSEN, CLAUS, DK
[73] DANMARKS TEKNISKE UNIVERSITET, DK
[85] 2019-04-17
[86] 2016-12-14 (PCT/EP2016/081032)
[87] (WO2017/102860)
[30] EP (15199948.9) 2015-12-14

---

[11] **3,041,250**
[13] C
[51] **Int.Cl. G06Q 10/083 (2023.01) G06Q 10/0836 (2023.01)**
[25] EN
[54] **FACILITATING DELIVERY OF A PRODUCT**
[54] **FACILITATION DE LA LIVRAISON D'UN PRODUIT**
[72] PHILLIPS, JEREMY, US
[72] PHARR, JEFF, US
[73] CAPITAL ONE SERVICES, LLC, US
[86] (3041250)
[87] (3041250)
[22] 2019-04-25
[30] US (15/962864) 2018-04-25

---

[11] **3,042,101**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/20 (2018.01) A61B 5/0537 (2021.01)**
[25] EN
[54] **MEASUREMENT OF EDEMA**
[54] **MESURE D'UN OEDEME**
[72] BURNS, MARTIN F., US
[72] BARRINGTON, SARA, US
[72] ROSS, GRAHAM O., US
[73] BRUIN BIOMETRICS, LLC, US
[85] 2019-04-26
[86] 2018-02-02 (PCT/US2018/016738)
[87] (WO2018/144943)
[30] US (62/454,467) 2017-02-03
[30] US (62/521,890) 2017-06-19

---

[11] **3,044,423**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **HIGH DENSITY OPTICAL CABLES**
[54] **CABLES A FIBRES OPTIQUES A FORTE DENSITE**
[72] WELLS, BEN H., IT
[72] FALLAHMOHAMMADI, EHSAN, IT
[72] RISCH, BRIAN G., IT
[72] ANDERSON, CLINT NICHOLAUS, IT
[72] SACH, JOHN R., IT
[72] BARKER, JEFFREY SCOTT, IT
[73] PRYSMIAN S.P.A., IT
[86] (3044423)
[87] (3044423)
[22] 2019-05-28
[30] US (16/028,264) 2018-07-05
[30] US (16/213,491) 2018-12-07

---

[11] **3,044,610**
[13] C
[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/02 (2006.01) A61K 8/92 (2006.01) A61Q 1/12 (2006.01)**
[25] EN
[54] **POWDERY COSMETIC COMPOSITION COMPRISING NANOCRYSTALLINE CELLULOSE**
[54] **COMPOSITION COSMETIQUE PULVERULENTE COMPRENANT DE LA CELLULOSE NANOCRISTALLINE**
[72] GUARILLOFF, PHILIPPE, US
[73] ANOMERA INC., CA
[85] 2019-05-22
[86] 2017-11-30 (PCT/EP2017/080981)
[87] (WO2018/100061)
[30] US (62/427 922) 2016-11-30

---

[11] **3,044,689**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 8/00 (2018.01) G06F 9/44 (2018.01)**
[25] EN
[54] **ATTRIBUTE SHARING PLATFORM FOR DATA PROCESSING SYSTEMS**
[54] **PLATEFORME DE PARTAGE D'ATTRIBUT DESTINEE A DES SYSTEMES DE TRAITEMENT DE DONNEES**
[72] GUPTE, SAURABH, US
[73] CAPITAL ONE SERVICES, LLC, US
[86] (3044689)
[87] (3044689)
[22] 2019-05-30
[30] US (15/994787) 2018-05-31

---

[11] **3,044,904**
[13] C
[51] **Int.Cl. A01K 1/015 (2006.01)**
[25] EN
[54] **TRAY-SUPPORTED FLOOR MATS FOR LIVESTOCK HANDLING EQUIPMENT**
[54] **TAPIS DE SOL SOUTENUS PAR PLATEAU POUR EQUIPEMENT DE MANIPULATION DE BETAIL**
[72] FIRTH, PHILIP MALCOLM, CA
[73] NORTHQUIP INC., CA
[85] 2019-05-24
[86] 2017-01-16 (PCT/CA2017/050049)
[87] (WO2018/129606)

[11] **3,045,566**
[13] C
[51] **Int.Cl. A61K 31/427 (2006.01) A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01)**
[25] EN
[54] **TEBIPENEM PIVOXIL IMMEDIATE AND MODIFIED RELEASE ORAL DOSAGE FORMS**
[54] **FORMES POSOLOGIQUES D'ADMINISTRATION PAR VOIE ORALE A LIBERATION IMMEDIATE ET MODIFIEE DE TEBIPENEME PIVOXIL**
[72] JAIN, AKASH, US
[72] LU, ENXIAN, CN
[72] LYU, SHAOQIONG, CN
[72] LI, SHOUFENG, US
[72] KEUTZER, TIMOTHY, US
[72] UTLEY, LUKE, US
[72] FRACZKIEWICZ, GRAZYNA, US
[72] MACWAN, JOYCE, US
[73] SPERO THERAPEUTICS, INC., US
[85] 2019-05-31
[86] 2017-12-15 (PCT/US2017/066729)
[87] (WO2018/112372)
[30] US (62/434,643) 2016-12-15
[30] US (62/438,071) 2016-12-22

[11] **3,047,345**
[13] C
[51] **Int.Cl. B60N 2/75 (2018.01) G05G 1/62 (2009.01)**
[25] EN
[54] **INDUSTRIAL VEHICLE ARMREST**
[54] **ACCOUDOIR DE VEHICULE INDUSTRIEL**
[72] REKOW, CRAIG J., US
[72] MAGEE, PAUL D., US
[72] GALLAGHER, MICHAEL P., US
[73] CROWN EQUIPMENT CORPORATION, US
[85] 2019-06-14
[86] 2018-01-12 (PCT/US2018/013485)
[87] (WO2018/132654)
[30] US (62/445,789) 2017-01-13

[11] **3,048,173**
[13] C
[51] **Int.Cl. H03M 13/35 (2006.01) H04J 99/00 (2009.01) H03M 13/29 (2006.01) H04L 27/26 (2006.01)**
[25] EN
[54] **ERROR CORRECTION DEVICE, ERROR CORRECTION METHOD, AND COMMUNICATION DEVICE**
[54] **DISPOSITIF DE CORRECTION D'ERREUR, PROCEDE DE CORRECTION D'ERREUR ET DISPOSITIF DE COMMUNICATION**
[72] YOSHIDA, MITSUTERU, JP
[72] ENDO, YASUYUKI, JP
[72] YAMAZAKI, ETSUSHI, JP
[72] OYAMA, KATSUICHI, JP
[72] ONUMA, YASUHARU, JP
[72] TOMIZAWA, MASAHITO, JP
[73] NTT ELECTRONICS CORPORATION, JP
[73] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2019-06-21
[86] 2017-12-15 (PCT/JP2017/045125)
[87] (WO2018/154934)
[30] JP (2017-030818) 2017-02-22

[11] **3,048,393**
[13] C
[51] **Int.Cl. G01G 19/52 (2006.01) A61G 99/00 (2006.01) G01G 19/08 (2006.01) G01G 19/414 (2006.01) G01G 19/44 (2006.01) G16H 20/10 (2018.01) A61G 1/06 (2006.01) A61G 3/02 (2006.01) A61G 3/08 (2006.01)**
[25] EN
[54] **SMART BENCH FOR AMBULANCES**
[54] **SUPPORT DE BRANCARD INTELLIGENT POUR AMBULANCES**
[72] CASTEJON DE LA ENCINA, MARIA ELENA, ES
[73] UNIVERSIDAD DE ALICANTE, ES
[85] 2019-06-25
[86] 2017-03-16 (PCT/ES2017/070150)
[87] (WO2018/115544)
[30] ES (P201631678) 2016-12-23

[11] **3,049,132**
[13] C
[51] **Int.Cl. C08L 83/04 (2006.01)**
[25] EN
[54] **SILICONE RUBBER SYNTACTIC FOAM**
[54] **MOUSSE SYNTACTIQUE DE CAOUTCHOUC DE SILICONE**
[72] O'NEIL, VIRGINIA, US
[72] HANLEY, JESSICA, US
[72] KIHARA, MATTHEW, US
[72] BROWN, LEEANNE, US
[72] WATSON, MICHAEL JOHN, US
[72] TIMMONS, MATTHEW PAUL, US
[73] ELKEM SILICONES USA CORP., US
[85] 2019-07-02
[86] 2018-02-07 (PCT/US2018/017238)
[87] (WO2018/148290)
[30] US (62/456,484) 2017-02-08

[11] **3,051,800**
[13] C
[51] **Int.Cl. E21B 43/08 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **DOWNHOLE FLOW CONTROL DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE DE COMMANDE D'ECOULEMENT EN PROFONDEUR DE FORAGE**
[72] ISMAIL, ISMARULLIZAM MOHD, GB
[72] GREEN, ANNABEL, GB
[72] WEBSTER, OLIVER, GB
[72] PATTON, DAMIEN GERARD, GB
[72] GARDEN, STEPHEN, GB
[73] SWELLFIX UK LIMITED, GB
[85] 2019-07-26
[86] 2018-01-30 (PCT/GB2018/050267)
[87] (WO2018/142118)
[30] GB (1701590.0) 2017-01-31

[11] **3,052,356**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/70 (2006.01) A61K 31/19 (2006.01) A61K 47/34 (2017.01) A61Q 3/02 (2006.01)**
[25] EN
[54] **COLOURED KERATOLYTIC NAIL LACQUER**
[54] **VERNIS A ONGLES KERATOLYTIQUE COLORE**
[72] ROSSEL, BART, BE
[73] OYSTERSHELL NV, BE
[85] 2019-08-01
[86] 2018-02-23 (PCT/EP2018/054598)
[87] (WO2018/154086)
[30] BE (BE2017/5115) 2017-02-24
[30] EP (17193525.7) 2017-09-27

[11] **3,052,590**
[13] C
[51] **Int.Cl. B65H 23/038 (2006.01) A47K 10/38 (2006.01) B65H 20/02 (2006.01) B65H 27/00 (2006.01)**
[25] EN
[54] **WEB MATERIAL DISPENSER AND WEB MATERIAL FEED ASSEMBLY FOR A WEB MATERIAL DISPENSER**
[54] **DISTRIBUTEUR DE MATERIAU SOUS FORME DE BANDE ET ENSEMBLE D'ALIMENTATION DE MATERIAU SOUS FORME DE BANDE POUR UN DISTRIBUTEUR DE MATERIAU SOUS FORME DE BANDE**
[72] FORMON, JOHN, US
[72] BRICKL, JEFFREY J., US
[72] WOERPEL, MATTHEW T., US
[72] RALEIGH, EDWARD A., US
[73] CASCADES CANADA ULC, CA
[86] (3052590)
[87] (3052590)
[22] 2019-08-21
[30] US (62/721.282) 2018-08-22

[11] **3,053,112**
[13] C
[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 20/14 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING AND REPORTING ANOMALIES IN UTILITY METERS**
[54] **SYSTEMES ET PROCEDES DE DETECTION ET DE NOTIFICATION D'ANOMALIES DANS DES COMPTEURS DE SERVICES PUBLICS**
[72] BOYLE, CHRISTINE E., US
[72] JUTRAS, RENEE, US
[72] ALAM, M., SOHAIB, US
[72] WEGMAN, DAVID R., US
[73] VALOR WATER ANALYTICS, INC., US
[85] 2019-08-07
[86] 2018-03-26 (PCT/US2018/024240)
[87] (WO2018/183140)
[30] US (62/478,831) 2017-03-30

[11] **3,053,351**
[13] C
[51] **Int.Cl. H02J 7/00 (2006.01) G06K 19/07 (2006.01)**
[25] EN
[54] **BATTERY CHARGER FOR A TRANSACTION CARD**
[54] **CHARGEUR DE BATTERIE POUR CARTE DE TRANSACTION**
[72] KOEPPEL, ADAM R., US
[72] JOHNSON, MOLLY, US
[72] LOCKE, TYLER, US
[72] ZARAKAS, JAMES, US
[73] CAPITAL ONE SERVICES, LLC, US
[86] (3053351)
[87] (3053351)
[22] 2019-08-28
[30] US (16/119762) 2018-08-31

[11] **3,055,346**
[13] C
[51] **Int.Cl. G06Q 10/063 (2023.01) G06F 16/93 (2019.01)**
[25] EN
[54] **METHOD FOR LIFE CYCLE MANAGEMENT OF A COMPLEX UTILITY FACILITY AND SYSTEM FOR ITS IMPLEMENTATION**
[54] **PROCEDE DE GESTION DE CYCLE DE VIE D'UN OUVRAGE D'INGENIERIE COMPLEXE ET SYSTEME POUR SA MISE EN OEUVRE**
[72] ALENKOV, VYACHESLAV VLADIMIROVICH, RU
[72] YERGOPULO, SERGUEY VIKTOROVICH, RU
[72] CHEBOTAREV, YEVGENY MIKHAYLOVICH, RU
[72] NOVODVORSKY, FILIPP MIKHAILOVICH, RU
[73] JOINT-STOCK COMPANY ASE ENGINEERING COMPANY, RU
[73] JOINT STOCK COMPANY "SCIENCE AND INNOVATIONS" ("SCIENCE AND INNOVATIONS", JSC), RU
[85] 2019-09-05
[86] 2017-03-01 (PCT/RU2017/000102)
[87] (WO2018/160085)

[11] **3,055,725**
[13] C
[51] **Int.Cl. B26D 7/18 (2006.01) B23Q 7/00 (2006.01)**
[25] EN
[54] **CUTTING MACHINE PART TRANSFER APPARATUS**
[54] **APPAREIL DE TRANSFERT DE PIECES D'UNE MACHINE DE COUPE**
[72] FORLONG, MURRAY HOULTON, NZ
[73] EIGEN SYSTEMS LIMITED, NZ
[85] 2019-09-06
[86] 2018-03-22 (PCT/NZ2018/050035)
[87] (WO2018/174729)
[30] NZ (730356) 2017-03-22
[30] NZ (737039) 2017-11-06

[11] **3,055,906**
[13] C
[51] **Int.Cl. B60G 11/24 (2006.01) B60G 5/02 (2006.01) B60G 11/22 (2006.01) F16F 1/41 (2006.01)**
[25] EN
[54] **VEHICLE SUSPENSION**
[54] **SUSPENSION DE VEHICULE**
[72] RAREY, ANDREW X., US
[72] NOBLE, SHAWN D., US
[73] HENDRICKSON USA, L.L.C., US
[85] 2019-09-09
[86] 2017-08-30 (PCT/US2017/049266)
[87] (WO2018/151755)
[30] US (15/432,344) 2017-02-14

[11] **3,057,215**
[13] C
[51] **Int.Cl. H04W 76/18 (2018.01)**
[25] EN
[54] **RLM AND BEAM FAILURE DETECTION BASED ON A MIX OF DIFFERENT REFERENCE SIGNALS**
[54] **RLM ET DETECTION DE DEFAILLANCE DE FAISCEAU BASEE SUR UN MELANGE DE DIFFERENTS SIGNAUX DE REFERENCE**
[72] DA SILVA, ICARO L. J., SE
[72] TIDESTAV, CLAES, SE
[72] FAN, RUI, CN
[72] UGURLU, UMUT, GB
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2019-09-18
[86] 2018-03-23 (PCT/SE2018/050308)
[87] (WO2018/174806)
[30] CN (PCT/CN2017/078131) 2017-03-24

[11] **3,064,832**
[13] C
[51] **Int.Cl. B29C 33/42 (2006.01) B29C 59/02 (2006.01) B29C 59/16 (2006.01) G03F 7/00 (2006.01) G03F 9/00 (2006.01)**
[25] EN
[54] **DOUBLE-SIDED IMPRINTING**
[54] **IMPRESSION EN DOUBLE FACE**
[72] PATTERSON, ROY, US
[72] CARDEN, CHARLES SCOTT, US
[72] SADAM, SATISH, US
[72] SHAFRAN, MATTHEW S., US
[72] SINGH, VIKRAMJIT, US
[72] MILLER, MICHAEL NEVIN, US
[72] LUO, KANG, US
[72] CHRISTIANSEN, RYAN, US
[72] FLECKENSTEIN, CHRISTOPHER JOHN, US
[73] MAGIC LEAP, INC., US
[85] 2019-11-22
[86] 2018-05-25 (PCT/US2018/034754)
[87] (WO2018/218214)
[30] US (62/511,172) 2017-05-25

[11] **3,065,666**
[13] C
[51] **Int.Cl. A61K 33/14 (2006.01) A61F 2/28 (2006.01) A61K 9/20 (2006.01) A61P 19/10 (2006.01)**
[25] EN
[54] **CONTROLLABLE ION RELEASE CALCIUM PARTICLES, METHOD FOR PRODUCING SAME AND USE THEREOF**
[54] **PARTICULES DE CALCIUM A LIBERATION D'IONS CONTROLEE, LEUR PROCEDE DE PRODUCTION, ET UTILISATION ASSOCIEE**
[72] ENGEL LOPEZ, ELISABETH, ES
[72] CASTANO LINARES, OSCAR, ES
[72] MARTI MUNOZ, JOAN, ES
[72] PLANELL ESTANY, JOSEP ANTON, ES
[73] FUNDACIO INSTITUT DE BIOENGINYERIA DE CATALUNYA (IBEC), ES
[73] UNIVERSITAT POLITECNICA DE CATALUNYA, ES
[85] 2019-11-29
[86] 2018-05-31 (PCT/EP2018/064378)
[87] (WO2018/220141)
[30] EP (17382325.3) 2017-06-01

[11] **3,071,019**
[13] C
[51] **Int.Cl. H02H 3/38 (2006.01) H02H 9/00 (2006.01) H02H 9/02 (2006.01) H02H 9/04 (2006.01)**
[25] EN
[54] **ACTIVE LIMITING CIRCUIT FOR INTRINSICALLY SAFE EQUIPMENT**
[54] **CIRCUIT LIMITEUR ACTIF POUR EQUIPEMENT INTRINSEQUEMENT SUR**
[72] BECKER, MATTHEW DAVID, US
[72] MCBAIN, ANDREW, US
[73] NATIONAL OILWELL VARCO, L.P., US
[85] 2020-01-22
[86] 2018-07-28 (PCT/US2018/044267)
[87] (WO2019/027852)
[30] US (15/665,021) 2017-07-31

[11] **3,071,473**
[13] C
[51] **Int.Cl. A61B 1/00 (2006.01)**
[25] EN
[54] **ENDOSCOPE DEVICE**
[54] **DISPOSITIF ENDOSCOPIQUE**
[72] RIES, WOLFGANG, DE
[72] GERMANN, MARTIN, DE
[73] JOIMAX GMBH, DE
[85] 2020-01-29
[86] 2018-08-20 (PCT/EP2018/000405)
[87] (WO2019/042578)
[30] DE (10 2017 008 148.4) 2017-08-29
[30] DE (20 2017 004 822.1) 2017-09-15

[11] **3,074,762**
[13] C
[51] **Int.Cl. G08C 17/02 (2006.01) H04W 12/02 (2009.01) E05F 15/60 (2015.01) E05F 15/77 (2015.01)**
[25] EN
[54] **METHOD AND APPARATUS TO FACILITATE TRANSMISSION OF AN ENCRYPTED ROLLING CODE**
[54] **METHODE ET DISPOSITIF FACILITANT LA TRANSMISSION D'UN CODE CHIFFRE A DEFILEMENT VERTICAL**
[72] FITZGIBBON, JAMES J., US
[72] GREGORI, ERIC, US
[72] LAIRD, EDWARD T., US
[73] THE CHAMBERLAIN GROUP LLC, US
[86] (3074762)
[87] (3074762)
[22] 2007-08-03
[62] 2,926,281
[30] US (11/501,455) 2006-08-09

[11] **3,074,977**
[13] C
[51] **Int.Cl. B61L 25/02 (2006.01)**
[25] EN
[54] **A METHOD FOR SAFELY AND AUTONOMOUSLY DETERMINING A POSITION INFORMATION OF A TRAIN ON A TRACK**
[54] **PROCEDE PERMETTANT D'OBTENIR DE MANIERE SURE ET AUTONOME DE L'INFORMATION RELATIVE A L'EMPLACEMENT D'UN TRAIN SUR UNE VOIE FERREE**
[72] KAELBERER, ULRICH, DE
[72] BAUER, HARALD, DE
[72] LE MAGUET, PIERRE, DE
[73] THALES MANAGEMENT & SERVICES DEUTSCHLAND GMBH, DE
[86] (3074977)
[87] (3074977)
[22] 2020-03-09
[30] EP (19 168 971.0) 2019-04-12

---

[11] **3,076,358**
[13] C
[51] **Int.Cl. B01D 3/16 (2006.01) C02F 1/04 (2006.01)**
[25] EN
[54] **HIGH EFFICIENCY IMPROVED WATER DISTILLATION UNIT AND METHODS OF OPERATION**
[54] **UNITE DE DISTILLATION D'EAU AMELIOREE A HAUT RENDEMENT ET PROCEDES DE FONCTIONNEMENT**
[72] DUSSAULT, DAVID, US
[73] WINTER HILL TECHNOLOGIES, LLC, US
[85] 2020-03-18
[86] 2018-10-11 (PCT/US2018/055469)
[87] (WO2019/075240)
[30] US (62/570,779) 2017-10-11

---

[11] **3,077,370**
[13] C
[51] **Int.Cl. H04L 12/40 (2006.01) B60R 16/023 (2006.01) G08G 1/00 (2006.01)**
[25] EN
[54] **VEHICLE CONTROL DEVICE AND WIRELESS COMMUNICATION NETWORK**
[54] **DISPOSITIF DE COMMANDE DE VEHICULE, ET RESEAU DE COMMUNICATION SANS FIL**
[72] PIVIDORI, MARCELO ROBERTO, AR
[73] PIVIDORI, MARCELO ROBERTO, AR
[85] 2020-03-27
[86] 2018-10-29 (PCT/EP2018/079550)
[87] (WO2019/086373)
[30] AR (20170103065) 2017-11-03

---

[11] **3,077,388**
[13] C
[51] **Int.Cl. C08J 9/00 (2006.01) C08J 9/14 (2006.01)**
[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF THERMOPLASTIC FOAM CONTAINING HFO-1336MZZ(Z) AND HFO-1336MZZ(E)**
[54] **PROCEDE DE FABRICATION DE MOUSSE THERMOPLASTIQUE CONTENANT DU HFO-1336MZZ(Z) ET HFO-1336MZZ(E)**
[72] KONTOMARIS, KONSTANTINOS, US
[73] THE CHEMOURS COMPANY FC, LLC, US
[85] 2020-03-27
[86] 2018-10-10 (PCT/US2018/055186)
[87] (WO2019/075040)
[30] US (62/570,422) 2017-10-10

---

[11] **3,078,841**
[13] C
[51] **Int.Cl. A47J 37/06 (2006.01)**
[25] EN
[54] **LATCH FOR MOVABLE GRILL**
[54] **VERROU POUR GRIL MOBILE**
[72] PAHNKE, CARL A., US
[72] NELSON, DENNIS J., US
[72] NORRIS, CHRISTOPHER P., US
[72] SANDS, JEFFREY L., US
[72] MATZ, NATHAN A., US
[72] FREYMILLER, OTLEY DWIGHT, US
[73] TAYLOR COMMERCIAL FOODSERVICE, LLC, US
[85] 2020-04-08
[86] 2018-10-04 (PCT/US2018/054346)
[87] (WO2019/074756)
[30] US (62/569,906) 2017-10-09

---

[11] **3,080,002**
[13] C
[51] **Int.Cl. G06T 7/80 (2017.01)**
[25] EN
[54] **TARGET, METHOD, AND SYSTEM FOR CAMERA CALIBRATION**
[54] **CIBLE, PROCEDE ET SYSTEME D'ETALONNAGE DE CAMERA**
[72] WENDEL, ANDREAS, US
[72] GRABE, VOLKER, US
[72] DITTMER, JEREMY, US
[72] MORRISS, ZACHARY, US
[73] WAYMO LLC, US
[85] 2020-03-27
[86] 2018-09-19 (PCT/US2018/051690)
[87] (WO2019/067283)
[30] US (15/720,979) 2017-09-29

---

[11] **3,080,640**
[13] C
[51] **Int.Cl. A61K 38/17 (2006.01) A61K 47/68 (2017.01) A61N 5/10 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **CD47 BLOCKADE WITH RADIATION THERAPY**
[54] **BLOCAGE DU CD47 ASSOCIE A UNE RADIOTHERAPIE**
[72] CUI, LEI, CA
[72] JOHNSON, LISA DANAE SCHULTZ, CA
[73] PFIZER INC., US
[85] 2020-04-28
[86] 2018-11-05 (PCT/CA2018/051392)
[87] (WO2019/084692)
[30] US (62/582,008) 2017-11-06

[11] **3,081,362**
[13] C
[51] **Int.Cl. C12Q 1/6883 (2018.01) C12Q 1/6827 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6858 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHOD OF DETECTING THE OCCURRENCE OF ADPKD BASED ON PRESENCE OF NUCLEOTIDE SEQUENCE ALTERATION IN PKD1**
[54] **PROCEDE DE DETECTION DE L'APPARITION DE LA MALADIE POLYKYSTIQUE RENALE AUTOSOMALE DOMINANTE (MPRAD) EN FONCTION DE LA PRESENCE D'UNE MODIFICATION DE SEQUENCE NUCLEOTIDIQUE DANS LA POLYKYSTOSE RENALE TYPE DOMINANT (PKD) 1**
[72] WATNICK, TERRY J., US
[72] GARCIA-GONZALEZ, MIGUEL, US
[72] GERMINO, GREGORY G., US
[72] JONES, JEFFREY G., US
[73] ATHENA DIAGNOSTICS, INC., US
[73] THE JOHNS HOPKINS UNIVERSITY, US
[86] (3081362)
[87] (3081362)
[22] 2007-07-24
[62] 2,993,381
[30] US (60/832,780) 2006-07-24

[11] **3,085,159**
[13] C
[51] **Int.Cl. A61K 8/64 (2006.01) A61K 8/36 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **TOPICAL COMPOSITIONS CONTAINING N-ACYL DIPEPTIDE DERIVATIVES AND GLYCOLIC ACID**
[54] **COMPOSITIONS TOPIQUES COMPRENANT DES DERIVES N-ACYLDIPEPTIDES ET DE L'ACIDE GLYCOLIQUE**
[72] BYREN, DAVID SCOTT, US
[72] CHUA, DERRICK, US
[72] DUFORT, MARISA DE VITA, US
[72] RUSH, ALLISON KEENE, US
[72] YANG, JING, US
[73] JOHNSON & JOHNSON CONSUMER INC. (A DELAWARE CORPORATION), US
[86] (3085159)
[87] (3085159)
[22] 2020-06-26
[30] US (16/452982) 2019-06-26

[11] **3,085,185**
[13] C
[51] **Int.Cl. H04N 13/271 (2018.01) H04N 13/117 (2018.01) H04N 13/156 (2018.01) H04N 13/282 (2018.01)**
[25] EN
[54] **CROSS-RENDER MULTIVIEW CAMERA, SYSTEM, AND METHOD**
[54] **CAMERA MULTI-VUES A RENDU CROISE, SYSTEME, ET PROCEDE**
[72] FATTAL, DAVID A., US
[72] DASS, ROGER, US
[72] DAO, EDMUND A., US
[73] LEIA INC., US
[85] 2020-06-08
[86] 2018-12-08 (PCT/US2018/064632)
[87] (WO2019/125793)
[30] US (62/608,551) 2017-12-20

[11] **3,085,506**
[13] C
[51] **Int.Cl. A01B 59/06 (2006.01) A01B 79/00 (2006.01) A01C 15/00 (2006.01) A01C 17/00 (2006.01) G01G 19/08 (2006.01) G01G 23/00 (2006.01)**
[25] EN
[54] **A METHOD FOR CONTROLLING A DRIVING CONDITION FOR A TRACTOR OF AN AGRICULTURAL MACHINE AND AN AGRICULTURAL MACHINE**
[54] **PROCEDE DE COMMANDE D'UN ETAT DE CONDUITE POUR UN TRACTEUR D'UNE MACHINE AGRICOLE ET MACHINE AGRICOLE**
[72] BIESENBEEK, SANDER, NL
[72] VAN DER VLUGT, PETER, NL
[73] KVERNELAND GROUP MECHATRONICS B.V., NL
[85] 2020-06-10
[86] 2018-11-30 (PCT/EP2018/083238)
[87] (WO2019/120954)
[30] EP (17209491.4) 2017-12-21

[11] **3,085,541**
[13] C
[51] **Int.Cl. E05D 3/18 (2006.01)**
[25] EN
[54] **FURNITURE BOARD HAVING A HINGE AND FURNITURE ITEM HAVING SUCH A FURNITURE BOARD**
[54] **PANNEAU DE MEUBLE MUNI D'UNE CHARNIERE ET MEUBLE MUNI DUDIT PANNEAU DE MEUBLE**
[72] SCHNEIDER, MARK, DE
[72] SANDER, FELIX, DE
[73] HETTICH-ONI GMBH & CO. KG, DE
[85] 2020-06-11
[86] 2019-01-08 (PCT/EP2019/050318)
[87] (WO2019/137899)
[30] DE (10 2018 100 674.8) 2018-01-12

[11] **3,087,218**
[13] C
[51] **Int.Cl. C12P 21/06 (2006.01)**
[25] EN
[54] **BIOLOGICAL SYNTHESIS OF AMINO ACID CHAINS FOR PREPARATION OF PEPTIDES AND PROTEINS**
[54] **SYNTHESE BIOLOGIQUE DE CHAINES D'ACIDES AMINES POUR LA PREPARATION DE PEPTIDES ET DE PROTEINES**
[72] KUTZNER, CHRISTOPH, DE
[72] GIUMAN, MARCO, DE
[73] KUTZNER, CHRISTOPH, DE
[85] 2020-06-26
[86] 2019-01-15 (PCT/EP2019/050892)
[87] (WO2019/138125)
[30] DE (10 2018 200 602.4) 2018-01-15

[11] **3,088,790**
[13] C
[51] **Int.Cl. H04N 21/2343 (2011.01) H04N 21/4402 (2011.01) H04N 21/6405 (2011.01) H04N 21/643 (2011.01) H04N 21/81 (2011.01) H04N 21/845 (2011.01)**
[25] EN
[54] **DISTRIBUTION AND PLAYBACK OF MEDIA CONTENT**
[54] **DISTRIBUTION ET LECTURE D'UN CONTENU MULTIMEDIA**
[72] GARTEN, ELIEZER, US
[72] LUPU, DROR, US
[72] KENIG, RAN, US
[73] VITEC, INC., US
[85] 2020-07-16
[86] 2019-02-05 (PCT/US2019/016696)
[87] (WO2019/160714)
[30] US (62/631,480) 2018-02-15
[30] US (62/754,441) 2018-11-01

[11] **3,088,950**
[13] C
[51] **Int.Cl. H03K 19/195 (2006.01)**
[25] EN
[54] **JOSEPHSON POLARITY AND LOGICAL INVERTER GATES**
[54] **PORTES D'INVERSEUR DE POLARITE ET LOGIQUE JOSEPHSON**
[72] HERR, QUENTIN P., US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2020-07-02
[86] 2019-01-23 (PCT/US2019/014803)
[87] (WO2019/152243)
[30] US (15/887,524) 2018-02-02

[11] **3,089,497**
[13] C
[51] **Int.Cl. B65D 5/20 (2006.01) B65D 5/38 (2006.01) B65D 5/42 (2006.01) B65D 5/72 (2006.01) B65D 50/02 (2006.01) B65D 59/04 (2006.01) B65D 77/04 (2006.01) B65D 77/22 (2006.01) B65D 79/00 (2006.01) B65D 83/04 (2006.01)**
[25] EN
[54] **CHILD RESISTANT STORAGE CONTAINER**
[54] **RECIPIENT DE STOCKAGE A L'EPREUVE DES ENFANTS**
[72] MARKARIAN, MICHAEL, US
[72] BAZIRGAN, COLETTE, US
[72] BENJAMIN, EDWARD, US
[73] CONTEMPO CARD COMPANY, US
[85] 2020-07-23
[86] 2019-03-08 (PCT/US2019/021410)
[87] (WO2019/173749)
[30] US (62/641,096) 2018-03-09
[30] US (62/667,508) 2018-05-05
[30] US (62/677,830) 2018-05-30
[30] US (62/815,723) 2019-03-08

[11] **3,089,847**
[13] C
[51] **Int.Cl. A61K 31/232 (2006.01) A61K 9/48 (2006.01)**
[25] EN
[54] **USE OF EICOSAPENTAENOIC ACID TO TREAT HYPERTRIGLYCERIDEMIA**
[54] **UTILISATION D'ACIDE ICOSAPENTANOIQUE POUR LE TRAITEMENT DE L'HYPERTRIGLYCERIDEMIE**
[72] MANKU, MEHAR, US
[72] OSTERLOH, IAN, US
[72] WICKER, PIERRE, US
[72] BRAECKMAN, RENE, US
[72] SONI, PARESH, US
[73] AMARIN PHARMACEUTICALS IRELAND LIMITED, IE
[86] (3089847)
[87] (3089847)
[22] 2010-02-09
[62] 3,008,079
[30] US (61/151,291) 2009-02-10
[30] US (61/173,755) 2009-04-29

[11] **3,090,855**
[13] C
[51] **Int.Cl. C08J 3/11 (2006.01) B01F 23/50 (2022.01) A01N 25/04 (2006.01) C08F 2/32 (2006.01) C09K 8/68 (2006.01) C09K 8/80 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF PREPARING POLYMER COMPOSITIONS UNDER EXTENSIONAL FLOW CONDITIONS**
[54] **SYSTEMES ET METHODES DE PREPARATION DE COMPOSITIONS POLYMERES DANS DES CONDITIONS DE DEBIT D'EXTENSION**
[72] DEYSARKAR, ASOKE KUMAR, US
[72] CALLANAN, MICHAEL JOSEPH, US
[72] MCDANIEL, ROBERT RAY, US
[72] DECAIRES, BRIAN JAMES KEOLA, US
[73] PFP INDUSTRIES, LLC, US
[86] (3090855)
[87] (3090855)
[22] 2020-08-20
[30] US (16/556,566) 2019-08-30
[30] US (16/900,084) 2020-06-12
[30] US (16/911,546) 2020-06-25
[30] US (16/922,738) 2020-07-07

[11] **3,091,111**
[13] C
[51] **Int.Cl. B22F 9/08 (2006.01) B22F 1/05 (2022.01) B22F 1/145 (2022.01) B22F 9/16 (2006.01)**
[25] EN
[54] **METAL POWDER ATOMIZATION MANUFACTURING PROCESSES**
[54] **PROCEDES DE FABRICATION D'ATOMISATION DE POUDRE METALLIQUE**
[72] LAROUCHE, FREDERIC, CA
[72] MARION, FREDERIC, CA
[72] BALMAYER, MATTHIEU, CA
[73] AP&C ADVANCED POWDERS & COATINGS INC., CA
[86] (3091111)
[87] (3091111)
[22] 2016-10-27
[62] 3,051,236
[30] US (62/247,794) 2015-10-29

[11] **3,094,084**
[13] C
[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/10 (2012.01) G06Q 20/20 (2012.01) G06Q 20/34 (2012.01)**
[25] EN
[54] **MULTI-DEVICE POINT-OF-SALE SYSTEM HAVING MULTIPLE CUSTOMER-FACING DEVICES**
[54] **SYSTEME DE POINT DE VENTE A MULTIPLES DISPOSITIFS AYANT DE MULTIPLES DISPOSITIFS EN FACE DU CLIENT**
[72] SANCHEZ-LLORENS, SARA, US
[72] RISTOV, TODOR, US
[72] HURWITZ, ELISE, US
[72] PONCHON, ARNAUD, US
[72] DOYLE, EVAN, US
[72] BLAGDAN, ISREAL, US
[72] LIN, CHRISTINE, US
[72] KHAN, IMRAN, US
[73] BLOCK, INC., US
[85] 2020-09-15
[86] 2019-03-18 (PCT/US2019/022809)
[87] (WO2019/190809)
[30] US (15/942,273) 2018-03-30
[30] US (15/942,307) 2018-03-30
[30] US (15/942,332) 2018-03-30
[30] US (15/942,227) 2018-03-30
[30] US (15/942,239) 2018-03-30
[30] US (15/942,364) 2018-03-30

[11] **3,094,374**
[13] C
[51] **Int.Cl. F02B 33/30 (2006.01) F01L 9/20 (2021.01) F01L 9/40 (2021.01) F02B 75/02 (2006.01) F02F 1/42 (2006.01) F02F 3/20 (2006.01) F02F 5/00 (2006.01) F02M 35/10 (2006.01)**
[25] EN
[54] **INTERNAL COMBUSTION ENGINE**
[54] **MOTEUR A COMBUSTION INTERNE**
[72] COUTTS, CLYDE, CA
[73] COUTTS INDUSTRIES INC., CA
[86] (3094374)
[87] (3094374)
[22] 2020-09-24
[30] CA (3056503) 2019-09-24

[11] **3,097,006**
[13] C
[51] **Int.Cl. C12N 15/113 (2010.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **DNA MOLECULE CODING FOR 5' UTR ENABLING HIGH RECOMBINANT PROTEIN EXPRESSION IN MONOCOTYLEDONS**
[54] **MOLECULE D'ADN CODANT POUR UNE 5'UTR PERMETTANT UNE EXPRESSION ELEVEE DE PROTEINES RECOMBINANTES DANS DES MONOCOTYLEDONES**
[72] KATO, KO, JP
[73] NATIONAL UNIVERSITY CORPORATION NARA INSTITUTE OF SCIENCE AND TECHNOLOGY, JP
[85] 2020-10-13
[86] 2019-04-09 (PCT/JP2019/015506)
[87] (WO2019/198724)
[30] JP (2018-077249) 2018-04-13

[11] **3,097,545**
[13] C
[51] **Int.Cl. C03C 25/40 (2006.01) C03C 25/1065 (2018.01) C03C 25/223 (2018.01) C03C 3/11 (2006.01) C03C 13/00 (2006.01) C08L 83/04 (2006.01) C08L 83/08 (2006.01)**
[25] EN
[54] **SILICONE-COATED MINERAL WOOL INSULATION MATERIALS AND METHODS FOR MAKING AND USING THEM**
[54] **MATERIAUX D'ISOLATION EN LAINE MINERALE REVETUS DE SILICONE ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] SAXENA, PAWAN, US
[72] GALLAGHER, KEVIN J., US
[72] BOZEK, JOHN J., US
[72] SAYLOR, KATHLEEN H., US
[73] CERTAINTEED LLC, US
[85] 2020-10-16
[86] 2019-04-16 (PCT/US2019/027745)
[87] (WO2019/204353)
[30] US (62/658,547) 2018-04-16

[11] **3,098,801**
[13] C
[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/02 (2006.01) A61K 8/36 (2006.01) A61K 8/37 (2006.01) A61K 8/81 (2006.01) A61Q 5/02 (2006.01) A61Q 19/00 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **CLEANSING COMPOSITION COMPRISING STEARIC ESTERS**
[54] **COMPOSITION PURIFICATRICE CONTENANT DES ESTERS STEARIQUES**
[72] FIGUEROA, JASMIN, US
[72] JOHNSON, DIANA, US
[72] MARTINEZ, MARCEE, US
[72] EDOUARD, FARAHDIA, US
[72] BIDAYE, ABHIJIT, US
[73] JOHNSON & JOHNSON CONSUMER INC. (A DELAWARE CORPORATION), US
[85] 2020-10-29
[86] 2019-05-03 (PCT/IB2019/053635)
[87] (WO2019/211804)
[30] US (62/667,019) 2018-05-04

[11] **3,098,967**
[13] C
[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/35 (2006.01) A61K 8/58 (2006.01) A61K 8/72 (2006.01) A61Q 17/04 (2006.01)**
[25] EN
[54] **PERSONAL CARE COMPOSITION COMPRISING EMOLLIENTS, EMULSIFIER, AND GELLING AGENT**
[54] **COMPOSITION DE SOINS PERSONNELS COMPRENANT DES EMOLLIENTS, UN EMULSIFIANT ET UN GELIFIANT**
[72] BAILLET, HORTENSE, FR
[72] GESLIN, MARIE, FR
[73] JOHNSON & JOHNSON CONSUMER INC. (A DELAWARE CORPORATION), US
[85] 2020-10-30
[86] 2019-05-14 (PCT/IB2019/053983)
[87] (WO2019/220337)
[30] US (62/671,044) 2018-05-14

[11] **3,100,416**
[13] C
[51] **Int.Cl. C09K 3/00 (2006.01) F41H 9/10 (2006.01)**
[25] EN
[54] **NON-LETHAL DEFENSIVE FLUID COMPOSITION AND PRESSURIZED DELIVERY SYSTEM**
[54] **COMPOSITION DE FLUIDE PROTECTEUR NON MORTEL ET SYSTEME DE DISTRIBUTION SOUS PRESSION**
[72] RANKIN, DAVID DANIEL, SR., US
[73] RANKIN, DAVID DANIEL, SR., US
[86] (3100416)
[87] (3100416)
[22] 2020-11-23
[30] US (16/830,362) 2020-03-26

---

[11] **3,101,046**
[13] C
[51] **Int.Cl. C10M 141/12 (2006.01) C10M 125/00 (2006.01)**
[25] EN
[54] **METHOD FOR PREVENTING OR REDUCING LOW SPEED PRE-IGNITION IN DIRECT INJECTED SPARK-IGNITED ENGINES WITH MANGANESE-CONTAINING LUBRICANT**
[54] **PROCEDE DE PREVENTION OU DE REDUCTION DE PRE-ALLUMAGE A FAIBLE VITESSE DANS DES MOTEURS A ALLUMAGE COMMANDE A INJECTION DIRECTE AVEC UN LUBRIFIANT CONTENANT DU MANGANESE**
[72] ELLIOTT, IAN G., US
[72] MARIA, AMIR GAMAL, US
[72] CHERPECK, RICHARD EUGENE, US
[72] GUNAWAN, THERESA LIANG, US
[72] THOMAS, ANDREW M., US
[73] CHEVRON U.S.A. INC., US
[73] CHEVRON ORONITE COMPANY LLC, US
[85] 2020-11-19
[86] 2019-05-10 (PCT/IB2019/053891)
[87] (WO2019/224647)
[30] US (62/676,607) 2018-05-25

---

[11] **3,101,114**
[13] C
[51] **Int.Cl. C07F 9/54 (2006.01) A01N 57/20 (2006.01) A01N 57/22 (2006.01)**
[25] EN
[54] **TRIPHENYLPHOSPHONIUM SALT COMPOUNDS, PREPARATION METHOD AND USE THEREOF**
[54] **COMPOSES DE SEL DE TRIPHENYLPHOSPHONIUM, LEUR PROCEDE DE PRODUCTION ET LEUR UTILISATION**
[72] QIN, ZHAOHAI, CN
[72] WANG, JIAYAO, CN
[72] LIU, XUELIAN, CN
[72] TANG, DACHAO, CN
[72] XIAO, YUMEI, CN
[72] LI, JIAQI, CN
[73] CHINA AGRICULTURAL UNIVERSITY, CN
[85] 2020-11-20
[86] 2018-08-17 (PCT/CN2018/100964)
[87] (WO2020/034181)

---

[11] **3,101,668**
[13] C
[51] **Int.Cl. C09K 8/592 (2006.01) E21B 43/22 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **LIQUID COMPOSITION AND USE IN A START-UP STAGE OF AN IN SITU BITUMEN RECOVERY PROCESS**
[54] **COMPOSITION LIQUIDE ET UTILISATION DANS UNE ETAPE DE DEMARRAGE D'UN PROCEDE DE RECUPERATION DE BITUME SUR PLACE**
[72] FADAEI, HOSSEIN, CA
[72] AGHABARATI, HOSSEIN, CA
[73] SUNCOR ENERGY INC., CA
[86] (3101668)
[87] (3101668)
[22] 2020-12-04

---

[11] **3,102,568**
[13] C
[51] **Int.Cl. B27M 3/00 (2006.01)**
[25] EN
[54] **AUTOMATED SYSTEMS AND METHODS FOR FLOOR AND CEILING UNITS IN THE CONSTRUCTION OF MODULAR BUILDING UNITS**
[54] **SYSTEMES ET PROCEDES AUTOMATISES DESTINES A DES UNITES DE PLANCHER ET DE PLAFOND DANS LA FORMATION D'UNITES DE CONSTRUCTION MODULAIRES**
[72] BELLISSIMO, MARK JOSEPH, US
[72] HUNSINGER, JASON DARYL, US
[72] BEARD, STANLEY CLARK, JR., US
[72] MEADOWS, HARRISON GRANT, US
[73] BUILDZ, LLC, US
[85] 2020-12-03
[86] 2019-06-07 (PCT/US2019/036108)
[87] (WO2019/237034)
[30] US (62/682,568) 2018-06-08

---

[11] **3,103,469**
[13] C
[51] **Int.Cl. A61K 47/02 (2006.01) A61K 38/00 (2006.01) A61K 38/16 (2006.01) A61K 47/10 (2017.01) A61P 3/10 (2006.01)**
[25] EN
[54] **GIP/GLP1 AGONIST COMPOSITIONS**
[54] **COMPOSITIONS AGONISTES GIP/GLP1**
[72] CORVARI, VINCENT JOHN, US
[72] MINIE, CHRISTOPHER SEARS, US
[72] MISHRA, DINESH SHYANDEO, US
[72] QIAN, KEN KANGYI, US
[73] ELI LILLY AND COMPANY, US
[85] 2020-12-10
[86] 2019-06-14 (PCT/US2019/037146)
[87] (WO2019/245893)
[30] US (62/688,632) 2018-06-22

[11] **3,104,721**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1486 (2006.01)**
[25] EN
[54] **PHYSIOLOGICAL SIGNAL MONITORING DEVICE**
[54] **DISPOSITIF DE SURVEILLANCE DE SIGNAL PHYSIOLOGIQUE**
[72] HUANG, CHUN-MU, CN
[72] CHEN, CHIEH-HSING, CN
[72] LEE, CHEN-HAO, CN
[73] BIONIME CORPORATION, CN
[73] BIONIME USA CORPORATION, US
[85] 2020-12-30
[86] 2020-07-31 (PCT/IB2020/057261)
[87] (WO2021/024131)
[30] US (62/882,140) 2019-08-02
[30] TW (109100959) 2020-01-10

[11] **3,107,201**
[13] C
[51] **Int.Cl. G01V 1/30 (2006.01)**
[25] EN
[54] **CALIBRATING TIME-LAPSE SEISMIC IMAGES FOR PRODUCTION OPERATIONS**
[54] **ETALONNAGE D'IMAGES SISMIQUES A INTERVALLE DESTINE A DES OPERATIONS DE PRODUCTION**
[72] GAO, CHAO, US
[72] RAMSAY, TRAVIS ST. GEORGE, US
[72] SEGOVIA, FELIX, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2021-01-21
[86] 2019-05-28 (PCT/US2019/034158)
[87] (WO2020/076370)
[30] US (62/744,507) 2018-10-11

[11] **3,108,397**
[13] C
[51] **Int.Cl. B65D 50/04 (2006.01)**
[25] EN
[54] **CONTAINER WITH SECURITY LOCK**
[54] **CONTENEUR AVEC VERROU**
[72] LEI, JING, CN
[73] LEI, JING, CN
[86] (3108397)
[87] (3108397)
[22] 2021-02-08
[30] US (17156578) 2021-01-24
[30] US (63012828) 2020-04-20

[11] **3,109,014**
[13] C
[51] **Int.Cl. H04N 19/50 (2014.01) H04N 19/126 (2014.01) H04N 19/186 (2014.01) H04N 1/60 (2006.01)**
[25] EN
[54] **VIDEO IMAGE COMPONENT PREDICTION METHOD AND APPARATUS, AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL DE PREDICTION DE COMPOSANT D'IMAGE VIDEO, ET SUPPORT D'INFORMATIONS INFORMATIQUE**
[72] HUO, JUNYAN, CN
[72] CHAI, XIAOYAN, CN
[72] MA, YANZHUO, CN
[72] YANG, FUZHENG, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-02-08
[86] 2018-08-09 (PCT/CN2018/099703)
[87] (WO2020/029202)

[11] **3,110,125**
[13] C
[51] **Int.Cl. B21B 45/08 (2006.01)**
[25] EN
[54] **A DEVICE AND METHOD FOR DESCALING ROLLING STOCK**
[54] **DISPOSITIF ET PROCEDE DE DECALAMINAGE DE MATIERE A LAMINER**
[72] GAYDOUL, JURGEN, SE
[73] HERMETIK HYDRAULIK AB, SE
[85] 2021-02-19
[86] 2018-08-21 (PCT/EP2018/072509)
[87] (WO2020/038558)

[11] **3,112,979**
[13] C
[51] **Int.Cl. E04B 2/74 (2006.01) E04B 2/28 (2006.01)**
[25] EN
[54] **PARTITION COMPRISING BOARDS MOUNTED ONTO UPRIGHT ELONGATE MEMBERS AND METHOD FOR CONSTRUCTING THE SAME**
[54] **CLOISON COMPRENANT DES PLAQUES MONTEES SUR DES ELEMENTS ALLONGES VERTICAUX ET PROCEDE DE CONSTRUCTION CORRESPONDANT**
[72] RIDEOUT, JAN, GB
[72] JONES, NICHOLAS, GB
[73] SAINT-GOBAIN PLACO, FR
[85] 2021-03-15
[86] 2019-09-10 (PCT/GB2019/052523)
[87] (WO2020/065259)
[30] GB (1815518.4) 2018-09-24

[11] **3,114,129**
[13] C
[51] **Int.Cl. A61B 18/20 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **DEVICE FOR DERMATOLOGICAL TREATMENT**
[54] **DISPOSITIF POUR TRAITEMENT DERMATOLOGIQUE**
[72] FRANCESCHINA, CESARE PLINIO, IT
[72] TAGLIAFERRI, MARCO, IT
[72] CANNONE, FABIO, IT
[73] QUANTA SYSTEM S.P.A., IT
[85] 2021-03-24
[86] 2019-10-04 (PCT/IB2019/058454)
[87] (WO2020/075025)
[30] IT (102018000009253) 2018-10-08

[11] **3,114,316**
[13] C
[51] **Int.Cl. H02J 13/00 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION VIRTUAL NETWORKING**
[54] **RESEAUTAGE VIRTUEL DE DISTRIBUTION D'ENERGIE**
[72] ZAFIROVIC-VUKOTIC, MIRJANA, CA
[72] LOHMEYER, JOACHIM, DE
[73] SIEMENS CANADA LIMITED, CA
[85] 2021-03-25
[86] 2018-09-27 (PCT/US2018/052999)
[87] (WO2020/068078)

[11] **3,116,483**
[13] C
[51] **Int.Cl. B60B 27/02 (2006.01)**
[25] EN
[54] **HUB FOR HEAVY-DUTY VEHICLE**
[54] **MOYEU POUR VEHICULE UTILITAIRE LOURD**
[72] ANDLER, JASON, US
[72] GREGG, DANE, US
[72] ERNENWEIN, KEITH, US
[72] WITTLINGER, JEFF, US
[72] KAKARLA, SRI SATYA TEJA, US
[73] HENDRICKSON USA, L.L.C., US
[86] (3116483)
[87] (3116483)
[22] 2017-11-29
[62] 3,043,225
[30] US (62/430,057) 2016-12-05

[11] **3,116,548**
[13] C
[51] **Int.Cl. B62D 55/084 (2006.01)**
[25] EN
[54] **RIGID TRACK MOUNT**
[54] **SUPPORT DE PISTE RIGIDE**
[72] HANSON, CAMERON, US
[73] DOOSAN BOBCAT NORTH AMERICA, INC., US
[85] 2021-04-14
[86] 2019-10-16 (PCT/US2019/056477)
[87] (WO2020/081647)
[30] US (62/747,795) 2018-10-19

[11] **3,117,217**
[13] C
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/28 (2006.01) A61M 5/31 (2006.01) A61M 5/315 (2006.01) A61M 5/34 (2006.01) A61M 5/50 (2006.01)**
[25] EN
[54] **PRE-FILLED SAFETY NEEDLE AND SYRINGE SYSTEM**
[54] **SYSTEME DE SERINGUE ET D'AIGUILLE DE SECURITE PRE-REMPLI**
[72] BERLER, BARRY, US
[72] MULONE, JR., ANTHONY F., US
[72] CORELY, KEVIN, US
[72] YAARI, NIV, IL
[72] KATZ, GIL, IL
[72] UDOVICH, GREGORY, IL
[73] SHARPS TECHNOLOGY, INC., US
[85] 2021-04-20
[86] 2019-10-24 (PCT/US2019/057968)
[87] (WO2020/086917)
[30] US (62/750,780) 2018-10-25
[30] US (16/660,784) 2019-10-22

[11] **3,117,566**
[13] C
[51] **Int.Cl. A61K 31/10 (2006.01) A61K 36/28 (2006.01) A61P 3/10 (2006.01) A61P 9/00 (2006.01) A61P 13/00 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS FOR INHIBITING CONVERSION OF CHOLINE TO TRIMETHYLAMINE (TMA)**
[54] **PROCEDES POUR INHIBER LA CONVERSION DE LA CHOLINE EN TRIMETHYLAMINE (TMA)**
[72] HAZEN, STANLEY LEON, US
[72] GARCIA-GARCIA, JOSE CARLOS, US
[72] REED, JODIE MICHELLE, US
[72] REINSALU, LORI ANN, US
[72] SICA, VINCENT PETER, US
[72] BAKER, TIMOTHY R., US
[73] THE PROCTER & GAMBLE COMPANY, US
[73] THE CLEVELAND CLINIC FOUNDATION, US
[85] 2021-04-22
[86] 2019-11-06 (PCT/US2019/059984)
[87] (WO2020/097152)
[30] US (62/756,259) 2018-11-06
[30] US (62/828,688) 2019-04-03
[30] US (62/850,670) 2019-05-21

[11] **3,119,404**
[13] C
[51] **Int.Cl. A61M 37/00 (2006.01) A61M 5/32 (2006.01) A61M 25/06 (2006.01) A61N 5/10 (2006.01)**
[25] EN
[54] **DEVICE FOR DEPOSITING AN ELEMENT BY MEANS OF A CANNULA**
[54] **DISPOSITIF SERVANT A DEPOSER UN ELEMENT POURVU D'UNE CANULE**
[72] RICHTER, TIMO, DE
[72] BROMSEN, OLAF, DE
[73] SFM MEDICAL DEVICES GMBH, DE
[85] 2021-05-10
[86] 2019-11-19 (PCT/EP2019/081754)
[87] (WO2020/104430)
[30] DE (10 2018 129 618.5) 2018-11-23

[11] **3,119,929**
[13] C
[51] **Int.Cl. B23K 20/12 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR INCREASING THE SPEED AND INCREASING THE STABILITY OF THE WELDING PIN IN FRICTION STIR WELDING**
[54] **DISPOSITIF ET PROCEDE POUR AUGMENTER LA RAPIDITE ET LA STABILITE DE LA BROCHE DE SOUDAGE LORS DU SOUDAGE PAR FRICTION-MALAXAGE**
[72] WEIGL, MARKUS, DE
[73] GRENZEBACH MASCHINENBAU GMBH, DE
[85] 2021-05-13
[86] 2020-09-11 (PCT/DE2020/000207)
[87] (WO2021/047706)
[30] DE (10 2019 006 413.5) 2019-09-11

[11] **3,119,934**
[13] C
[51] **Int.Cl. B01D 53/04 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **OXYGEN CONCENTRATOR, CONTROL METHOD, AND CONTROL PROGRAM**
[54] **CONCENTRATEUR D'OXYGENE, PROCEDE DE COMMANDE ET PROGRAMME DE COMMANDE**
[72] SHINOHARA, KOICHI, JP
[72] YAMAURA, YUKI, JP
[73] TEIJIN PHARMA LIMITED, JP
[85] 2021-05-13
[86] 2019-11-14 (PCT/JP2019/044758)
[87] (WO2020/100996)
[30] JP (2018-215091) 2018-11-15

[11] **3,120,072**
[13] C
[51] **Int.Cl. G02B 27/00 (2006.01)**
[25] EN
[54] **STATIC MULTIVIEW DISPLAY AND METHOD HAVING MULTIVIEW ZONES**
[54] **AFFICHAGE MULTI-VUES STATIQUE ET PROCEDE AYANT DES ZONES MULTI-VUES**
[72] FATTAL, DAVID A., US
[73] LEIA INC., US
[85] 2021-05-14
[86] 2018-12-20 (PCT/US2018/066968)
[87] (WO2020/131090)

[11] **3,120,293**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/05 (2006.01)**
[25] EN
[54] **NON-REGULAR ELECTRICAL STIMULATION PATTERNS FOR IMPROVED EFFICIENCY IN TREATING PARKINSON'S DISEASE**
[54] **MOTIFS DE STIMULATION ELECTRIQUE NON REGULIERS POUR UNE PLUS GRANDE EFFICACITE DE TRAITEMENT DE LA MALADIE DE PARKINSON**
[72] GRILL, WARREN M., US
[72] BROCKER, DAVID T., US
[72] BIRDNO, MERRILL, US
[73] DUKE UNIVERSITY, US
[86] (3120293)
[87] (3120293)
[22] 2013-06-17
[62] 2,878,693
[30] US (13/770.731) 2013-02-19

[11] **3,120,430**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **SIX-MEMBERED FUSED WITH SIX-MEMBERED HETEROCYCLIC COMPOUND AND USES THEREOF SERVING AS PROTEIN RECEPTOR KINASE INHIBITOR**
[54] **COMPOSE HETEROCYCLIQUE A SIX CHAINONS ET SIX CHAINONS, ET UTILISATIONS ASSOCIEES EN TANT QU'INHIBITEUR DU RECEPTEUR DE PROTEINE KINASE**
[72] JIANG, LEI, CN
[72] FENG, ZHIYONG, CN
[72] JIN, XIAN, CN
[72] QIAO, ZHI, CN
[72] SHOU, JIANYONG, CN
[72] SHANG, KE, CN
[72] WU, DANYI, CN
[72] XU, LINGLING, CN
[72] XU, YUAN, CN
[72] ZHANG, SHUYUN, CN
[72] ZHANG, YI, CN
[72] ZHANG, YUXING, CN
[73] SHANGHAI ENNOVABIO PHARMACEUTICALS CO., LTD., CN
[85] 2021-05-13
[86] 2019-11-13 (PCT/CN2019/118217)
[87] (WO2020/098723)
[30] CN (201811348040.X) 2018-11-13

[11] **3,120,435**
[13] C
[51] **Int.Cl. A61C 17/02 (2006.01) A61C 1/00 (2006.01) A61M 39/10 (2006.01)**
[25] EN
[54] **PAUSE VALVE AND SWIVEL ASSEMBLIES FOR ORAL IRRIGATOR HANDLE**
[54] **ENSEMBLES PIVOT ET CLAPET DE PAUSE POUR MANCHE D'IRRIGATEUR BUCCAL**
[72] WAGNER, ROBERT, US
[72] TAYLOR, KURT, US
[72] MCCLARD, CHRISTINA, US
[73] WATER PIK, INC., US
[86] (3120435)
[87] (3120435)
[22] 2017-12-15
[62] 3,046,973
[30] US (62/435,054) 2016-12-15

[11] **3,121,986**
[13] C
[51] **Int.Cl. C07D 213/70 (2006.01) A61K 31/192 (2006.01) A61K 31/196 (2006.01) A61K 31/33 (2006.01) A61K 31/343 (2006.01) A61K 31/36 (2006.01) A61K 31/4184 (2006.01) A61K 31/44 (2006.01) A61K 31/4418 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/4709 (2006.01) A61K 31/4725 (2006.01) A61P 3/00 (2006.01) A61P 3/10 (2006.01) C07C 59/68 (2006.01) C07C 229/44 (2006.01) C07D 213/64 (2006.01) C07D 235/16 (2006.01) C07D 307/79 (2006.01) C07D 317/54 (2006.01) C07D 401/04 (2006.01) C07D 401/10 (2006.01) C07D 405/04 (2006.01) C07D 413/12 (2006.01) C07D 417/10 (2006.01)**
[25] EN
[54] **BIARYL DERIVATIVE AS GPR120 AGONIST**
[54] **DERIVE DE BIARYLE COMME AGONISTE DE GPR120**
[72] KIM, YOUNG KWAN, KR
[72] PARK, SANG YUN, KR
[72] JOO, HYUN WOO, KR
[72] CHOI, EUN SIL, KR
[72] PAEK, SEUNG YUP, KR
[72] KANG, SEUNG WAN, KR
[72] KIM, BYUNG GYU, KR
[72] LEE, CHANG SEOK, KR
[72] KIM, SUNG WOOK, KR
[72] LEE, SANG DAE, KR
[73] LG CHEM, LTD., KR
[86] (3121986)
[87] (3121986)
[22] 2015-12-23
[62] 2,970,011
[30] KR (10-2014-0188399) 2014-12-24

[11] **3,125,716**
[13] C
[51] **Int.Cl. G06T 11/60 (2006.01) G06T 7/521 (2017.01) G01S 7/481 (2006.01) G01S 17/08 (2006.01) G01S 17/89 (2020.01) G02B 25/00 (2006.01) G02F 1/1335 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR WIDE-ANGLE LIDAR USING NON-UNIFORM MAGNIFICATION OPTICS**
[54] **SYSTEMES ET METHODES DE LIDAR A GRAND ANGLE UTILISANT UNE OPTIQUE DE GROSSISSEMENT NON UNIFORME**
[72] BARIBAULT, ROBERT, CA
[72] OLIVIER, PIERRE, CA
[73] LEDDARTECH INC., CA
[86] (3125716)
[87] (3125716)
[22] 2021-07-21
[30] US (63/054,634) 2020-07-21

---

[11] **3,125,802**
[13] C
[51] **Int.Cl. A01L 7/02 (2006.01) A01L 5/00 (2006.01)**
[25] EN
[54] **HOOF SHOE OR HOOF SHOE INSERT FOR RELIEVING THE PRESSURE ON THE TOES OF A HOOFED ANIMAL**
[54] **BOTTE DE SABOT OU INSERT DE BOTTE DE SABOT POUR SUPPORTER, AVEC AMORTISSEMENT DE PRESSION, LE DOIGT D'UN ANIMAL ONGULE**
[72] ANDERSOHN, STEPHAN, DE
[73] ANDERSOHN, STEPHAN, DE
[73] SCHLAADT PLASTICS GMBH, DE
[85] 2021-07-06
[86] 2020-01-17 (PCT/DE2020/100033)
[87] (WO2020/151784)
[30] DE (20 2019 100 308.1) 2019-01-21

---

[11] **3,126,343**
[13] C
[51] **Int.Cl. B62D 55/104 (2006.01) B62M 27/02 (2006.01)**
[25] EN
[54] **SUSPENSION ARRANGEMENT OF SNOW VEHICLE**
[54] **AGENCEMENT DE SUSPENSION DE VEHICULE A NEIGE**
[72] PELTOMAA, MARKO, FI
[73] AUTONOMO MARKO PELTOMAA, ES
[85] 2021-07-09
[86] 2020-02-10 (PCT/FI2020/050081)
[87] (WO2020/169878)
[30] FI (20197036) 2019-02-24

---

[11] **3,128,464**
[13] C
[51] **Int.Cl. B67D 1/04 (2006.01) B01F 23/2361 (2022.01) B01F 33/71 (2022.01) B01F 35/42 (2022.01) B01F 35/71 (2022.01) A23L 2/54 (2006.01) A47J 31/40 (2006.01) A47J 31/44 (2006.01) B67D 1/08 (2006.01) F17C 13/04 (2006.01)**
[25] EN
[54] **AN ADAPTER FOR A CARBONATION MACHINE**
[54] **ADAPTATEUR D'UNE MACHINE DE CARBONATATION**
[72] DANIELI, GUY, IL
[72] COHEN, AVI, IL
[72] SHALEV, OREN, IL
[72] FUNT, MARK, IL
[72] RING, ALLAN, IL
[72] SHKEDI, AMNON, IL
[72] BRAND, DVIR, IL
[72] SHMUELI, EYAL, IL
[72] AVIGDOR, AMIT, IL
[72] SHAASHUA, ERAN, IL
[72] HARDUFF, HAGAI, IL
[72] KROM, DORON, IL
[73] SODASTREAM INDUSTRIES LTD., IL
[85] 2021-07-30
[86] 2020-01-01 (PCT/IL2020/050002)
[87] (WO2020/230115)
[30] US (16/411,870) 2019-05-14

---

[11] **3,128,801**
[13] C
[51] **Int.Cl. B61L 15/00 (2006.01) B61L 25/02 (2006.01)**
[25] EN
[54] **ELECTRONICALLY CONTROLLED PNEUMATIC RAILWAY CAR WITH END OF TRAIN DEVICE MODE**
[54] **WAGON DE CHEMIN DE FER PNEUMATIQUE A COMMANDE ELECTRONIQUE AVEC MODE DE DISPOSITIF DE FIN DE TRAIN**
[72] GRAHAM, SAMUEL D., CA
[72] LADUC, JOHN W., US
[72] CROWLEY, BRENDAN WADE, US
[72] MCLAUGHLIN, BRYAN M., US
[72] STEVENS, DALE R., US
[72] SOCHA, DAVID M., US
[72] LEWIS, ROGER B., US
[72] HALL, EVAN M., US
[73] NEW YORK AIR BRAKE LLC, US
[85] 2021-08-03
[86] 2019-02-04 (PCT/US2019/016458)
[87] (WO2020/162867)
[30] US (16/266,179) 2019-02-04

---

[11] **3,130,329**
[13] C
[51] **Int.Cl. G06F 1/10 (2006.01) H03K 3/38 (2006.01) H03K 5/15 (2006.01) H03K 19/195 (2006.01)**
[25] EN
[54] **CLOCK DISTRIBUTION RESONATOR SYSTEM**
[54] **SYSTEME DE RESONATEUR DE DISTRIBUTION D'HORLOGE**
[72] STRONG, JOSHUA A., US
[72] NIELSEN, MAX E., US
[72] TALANOV, VLADIMIR V., US
[72] OGUNNIKA, TEMITOPE OLUMUYIWA, US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2021-08-16
[86] 2020-02-11 (PCT/US2020/017701)
[87] (WO2020/185341)
[30] US (16/352,558) 2019-03-13

[11] **3,130,972**
[13] C
[51] **Int.Cl. G16Z 99/00 (2019.01) G06F 3/01 (2006.01)**
[25] EN
[54] **WEARABLE DEVICE THAT PROVIDES SPACED RETRIEVAL ALERTS TO ASSIST THE WEARER TO REMEMBER DESIRED INFORMATION**
[54] **DISPOSITIF A PORTER FOURNISSANT DES ALERTES DE RECUPERATION ESPACEES POUR AIDER L'UTILISATEUR A SE RAPPELER DE RENSEIGNEMENTS SOUHAITES**
[72] CLARK, CAMERON MACKENZIE, CA
[73] MEMORY ON HAND INC., CA
[86] (3130972)
[87] (3130972)
[22] 2021-09-16

[11] **3,131,778**
[13] C
[51] **Int.Cl. C10B 57/04 (2006.01) G01N 33/22 (2006.01)**
[25] EN
[54] **METHOD FOR EVALUATING COAL AND COAL BLENDS**
[54] **METHODE D'EVALUATION DU CHARBON ET DES MELANGES DE CHARBON**
[72] IGAWA, DAISUKE, JP
[72] DOHI, YUSUKE, JP
[72] MATSUI, TAKASHI, JP
[73] JFE STEEL CORPORATION, JP
[85] 2021-08-26
[86] 2020-02-26 (PCT/JP2020/007700)
[87] (WO2020/179576)
[30] JP (2019-038505) 2019-03-04

[11] **3,132,205**
[13] C
[51] **Int.Cl. F02D 41/14 (2006.01) F02D 29/06 (2006.01) F02D 37/02 (2006.01) F02D 41/00 (2006.01) F02D 41/34 (2006.01) F02P 5/15 (2006.01)**
[25] EN
[54] **INTERNAL COMBUSTION ENGINE AND PROCEDURE FOR OPERATING AN INTERNAL COMBUSTION ENGINE**
[54] **MOTEUR A COMBUSTION INTERNE ET PROCEDE DE FONCTIONNEMENT D'UN MOTEUR A COMBUSTION INTERNE**
[72] KEITH, DOUGLAS, GB
[72] THALHAUSER, JOSEF, DE
[72] SPYRA, NIKOLAUS, AT
[73] INNIO JENBACHER GMBH & CO OG, AT
[85] 2021-09-01
[86] 2019-03-04 (PCT/AT2019/060070)
[87] (WO2020/176911)

[11] **3,136,124**
[13] C
[51] **Int.Cl. A23J 1/14 (2006.01)**
[25] EN
[54] **NOVEL HEMP AND PEA FORMULATION AND ITS USE**
[54] **NOUVELLE FORMULATION DE CHANVRE ET DE POIS ET SON UTILISATION**
[72] KARIMIAN AZARI, ELNAZ, US
[72] O'CONNOR, ANNALOUISE, US
[72] CONTRACTOR, NIKHAT, US
[73] METAGENICS LLC, US
[85] 2021-10-01
[86] 2020-04-14 (PCT/US2020/028081)
[87] (WO2020/214569)
[30] US (62/834,325) 2019-04-15

[11] **3,136,670**
[13] C
[51] **Int.Cl. G02F 1/01 (2006.01) G02B 30/33 (2020.01) G02B 27/44 (2006.01) G02F 1/13357 (2006.01)**
[25] EN
[54] **METHOD OF FABRICATING DIFFRACTIVE BACKLIGHT**
[54] **PROCEDE DE FABRICATION D'UN DISPOSITIF DE RETROECLAIRAGE DIFFRACTIF**
[72] HOEKMAN, THOMAS, US
[72] FATTAL, DAVID A., US
[72] MA, MING, US
[72] PENG, ZHEN, US
[73] LEIA INC., US
[85] 2021-10-08
[86] 2020-04-25 (PCT/US2020/029986)
[87] (WO2020/223134)
[30] US (62/839,736) 2019-04-28

[11] **3,137,836**
[13] C
[51] **Int.Cl. C12N 5/077 (2010.01) A61K 35/34 (2015.01)**
[25] EN
[54] **METHOD FOR REGULATION OF SELECTIVE DIFFERENTIATION OF MUSCULOSKELETAL STEM CELLS**
[54] **PROCEDE DE REGULATION DE DIFFERENCIATION SELECTIVE DE CELLULES SOUCHES MUSCULO-SQUELETTIQUES**
[72] HAN, MYUNG-KWAN, KR
[73] CELLATOZ THERAPEUTICS, INC., KR
[85] 2021-10-22
[86] 2020-04-23 (PCT/KR2020/005366)
[87] (WO2020/218845)
[30] KR (10-2019-0047064) 2019-04-23
[30] KR (10-2020-0049098) 2020-04-23

[11] **3,138,327**
[13] C
[51] **Int.Cl. A61B 5/103 (2006.01) G16H 20/30 (2018.01) A61B 5/11 (2006.01) A61H 3/02 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM, AND METHOD FOR PROMOTING PATIENT COMPLIANCE WITH A PRESCRIBED LOWER EXTREMITY PARTIAL WEIGHT-BEARING REHABILITATION PROGRAM**
[54] **DISPOSITIF, SYSTEME ET METHODE POUR PROMOUVOIR L'OBSERVATION D'UNE PRESCRIPTION DE PROGRAMME DE REHABILITATION PARTIELLE DE SUPPORT DE POIDS DES EXTREMITES INFERIEURES PAR UN PATIENT**
[72] POPOV, ILLIA, US
[73] POPOV, ILLIA, US
[86] (3138327)
[87] (3138327)
[22] 2021-11-09

[11] **3,139,046**
[13] C
[51] **Int.Cl. A47G 23/04 (2006.01) A47G 23/02 (2006.01)**
[25] EN
[54] **MULTI-FUNCTION FIXING KIT**
[54] **TROUSSE DE FIXATION POLYVALENTE**
[72] GU, WEILIANG, CN
[73] SHENZHEN REEKOOS HOUSEWARE CO., LTD., CN
[86] (3139046)
[87] (3139046)
[22] 2021-11-15
[30] US (17/335,183) 2021-06-01

[11] **3,139,081**
[13] C
[51] **Int.Cl. G06F 16/738 (2019.01) G06Q 50/10 (2012.01) G06F 16/953 (2019.01) G06F 40/10 (2020.01) G06F 40/20 (2020.01) G06F 40/295 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EVENT SUMMARIZATION FROM DATA**
[54] **SYSTEMES ET PROCEDES DE RECAPITULATION D'EVENEMENTS A PARTIR DE DONNEES**
[72] EKMEKCI, BERK, US
[72] HAGERMAN, ELEANOR, US
[72] HOWALD, BLAKE, US
[73] THOMSON REUTERS ENTERPRISE CENTRE GMBH, CH
[85] 2021-11-03
[86] 2020-04-28 (PCT/IB2020/054007)
[87] (WO2020/234673)
[30] US (62/849,182) 2019-05-17
[30] US (16/700,746) 2019-12-02
[30] US (16/848,739) 2020-04-14

[11] **3,141,280**
[13] C
[51] **Int.Cl. B65D 41/26 (2006.01)**
[25] EN
[54] **PORTABLE CONTAINER AND LID STRUCTURE THEREOF**
[54] **CONTENANT PORTATIF ET STRUCTURE DE COUVERCLE**
[72] LIN, MING-TE, CN
[73] LIN, MING-TE, CN
[85] 2021-12-09
[86] 2019-06-12 (PCT/CN2019/090908)
[87] (WO2020/248162)

[11] **3,141,654**
[13] C
[51] **Int.Cl. A01C 7/08 (2006.01) A01C 5/06 (2006.01) A01C 7/06 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **IMPLEMENT FRAME MOUNTED PRODUCT METERS**
[54] **DOSEURS DE PRODUIT MONTES SUR UN CADRE D'OUTIL**
[72] JAGOW, SCOT, CA
[72] NOVLAN, DOUGLAS, CA
[72] HANTKE, GLENN, CA
[73] BOURGAULT INDUSTRIES LTD., CA
[85] 2021-11-23
[86] 2020-06-23 (PCT/CA2020/050872)
[87] (WO2020/257924)
[30] CA (3047567) 2019-06-25

[11] **3,142,504**
[13] C
[51] **Int.Cl. G06F 16/178 (2019.01) G06F 21/64 (2013.01)**
[25] EN
[54] **TECHNIQUES FOR FILE VERSIONING TO PROTECT AGAINST FILE CORRUPTION**
[54] **TECHNIQUES DE GESTION DE VERSIONS DE FICHIERS SERVANT A PROTEGER CONTRE UNE CORRUPTION DE FICHIERS**
[72] BLAIR, JOHN DAVID, US
[72] BAKKEN, ANDERS GRINDAL, US
[73] NETFLIX, INC., US
[85] 2021-12-02
[86] 2020-06-04 (PCT/US2020/036102)
[87] (WO2020/247614)
[30] US (16/432,824) 2019-06-05

[11] **3,145,208**
[13] C
[51] **Int.Cl. C25F 3/14 (2006.01) B23K 26/361 (2014.01) C25F 3/06 (2006.01) H01F 1/147 (2006.01) C21D 8/12 (2006.01)**
[25] EN
[54] **LINEAR GROOVE FORMATION METHOD AND LINEAR GROOVE FORMING APPARATUS, AND METHOD FOR MANUFACTURING GRAIN-ORIENTED ELECTRICAL STEEL SHEET**
[54] **PROCEDE DE FORMATION DE RAINURE LINEAIRE, DISPOSITIF DE FORMATION DE RAINURE LINEAIRE, ET PROCEDE DE PRODUCTION DE TOLE D'ACIER MAGNETIQUE ORIENTEE**
[72] OMURA, TAKESHI, JP
[72] ICHIHARA, YOSHIHISA, JP
[72] TAKAJO, SHIGEHIRO, JP
[72] INOUE, HIROTAKA, JP
[73] JFE STEEL CORPORATION, JP
[85] 2021-12-23
[86] 2020-07-03 (PCT/JP2020/026183)
[87] (WO2021/020028)
[30] JP (2019-140967) 2019-07-31

[11] **3,146,743**
[13] C
[51] **Int.Cl. B65G 69/24 (2006.01) B66F 7/08 (2006.01)**
[25] EN
[54] **VEHICLE LEVELER WITH IMPROVED DRAINAGE**
[54] **VERIN A VEHICULE AVEC DRAINAGE AMELIORE**
[72] LEUM, GRANT, US
[72] DEMERATH, ERIC, US
[73] LEUM ENGINEERING, INC. D/B/A DOCKZILLA CO., US
[86] (3146743)
[87] (3146743)
[22] 2022-01-26
[30] US (17/550,870) 2021-12-14
[30] US (17/468,882) 2021-09-08
[30] US (17/355,160) 2021-06-22
[30] US (17/340,670) 2021-06-07
[30] US (17/322,889) 2021-05-17
[30] US (17/174,301) 2021-02-11

[11] **3,148,790**
[13] C
[51] **Int.Cl. G01N 33/28 (2006.01) G16C 20/70 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DISSOLVED GAS ANALYSIS**
[54] **SYSTEMES ET PROCEDES POUR L'ANALYSE DE GAZ DISSOUS**
[72] CHEIM, LUIZ, US
[73] HITACHI ENERGY LTD, CH
[85] 2022-01-26
[86] 2021-02-26 (PCT/EP2021/054951)
[87] (WO2021/170859)
[30] US (16/804,923) 2020-02-28

[11] **3,149,709**
[13] C
[51] **Int.Cl. G02B 6/40 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON**
[54] **RUBAN DE FIBRE OPTIQUE BRANCHE DE FACON INTERMITTENTE**
[72] MURAKOSHI, YOSHIE, JP
[72] NAMAZUE, AKIRA, JP
[72] OSATO, KEN, JP
[73] FUJIKURA LTD., JP
[85] 2022-02-03
[86] 2020-05-12 (PCT/JP2020/018938)
[87] (WO2021/033374)
[30] JP (2019-151467) 2019-08-21

[11] **3,149,750**
[13] C
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/51 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **ELECTRONIC ATOMIZING DEVICE AND ATOMIZER THEREOF**
[54] **DISPOSITIF D'ATOMISATION ELECTRONIQUE ET ATOMISEUR ASSOCIE**
[72] OU, GUOLIANG, CN
[73] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN
[85] 2022-02-28
[86] 2020-06-09 (PCT/CN2020/095027)
[87] (WO2021/036401)
[30] CN (201921398720.2) 2019-08-26

[11] **3,150,069**
[13] C
[51] **Int.Cl. G06N 3/02 (2006.01)**
[25] EN
[54] **DATA PROCESSING DEVICE, DATA PROCESSING SYSTEM, AND DATA PROCESSING METHOD**
[54] **DISPOSITIF DE TRAITEMENT DE DONNEES, SYSTEME DE TRAITEMENT DE DONNEES ET PROCEDE DE TRAITEMENT DE DONNEES**
[72] MINEZAWA, AKIRA, JP
[73] MITSUBISHI ELECTRIC CORPORATION, JP
[85] 2022-03-03
[86] 2019-09-27 (PCT/JP2019/038133)
[87] (WO2021/059476)

[11] **3,150,998**
[13] C
[51] **Int.Cl. H05B 45/37 (2020.01) F21K 9/00 (2016.01) H05B 45/20 (2020.01) H05B 45/34 (2020.01) H05K 1/02 (2006.01)**
[25] EN
[54] **LED DEVICE WITH LATERAL LIGHT EMISSION**
[54] **DISPOSITIF A DEL A EMISSION DE LUMIERE LATERALE**
[72] WU, QINGAN, CN
[72] LIN, XIONGZHONG, CN
[72] HUANG, YAYING, CN
[73] ZHANGZHOU GO WIN LIGHTING CO., LTD, CN
[86] (3150998)
[87] (3150998)
[22] 2022-03-02
[30] CN (202120512505.1) 2021-03-11

[11] **3,151,334**
[13] C
[51] **Int.Cl. A61K 31/57 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **TOPICAL NEUROSTEROID FORMULATIONS**
[54] **FORMULATIONS TOPIQUES DE NEUROSTEREOIDE**
[72] BRINTON, ROBERTA DIAZ, US
[72] RODGERS, KATHLEEN, US
[72] KIM, YU JIN, US
[72] MANSOUR, HEIDI, US
[73] ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, US
[85] 2022-02-15
[86] 2020-08-19 (PCT/US2020/046905)
[87] (WO2021/034883)
[30] US (62/888,826) 2019-08-19

[11] **3,151,642**
[13] C
[51] **Int.Cl. G02F 1/01 (2006.01) G02B 30/33 (2020.01) G02B 27/30 (2006.01) G02F 1/13357 (2006.01)**
[25] EN
[54] **MULTIVIEW BACKLIGHT, MULTIVIEW DISPLAY, AND METHOD EMPLOYING REFLECTIVE MULTIBEAM ELEMENTS**
[54] **RETROECLAIRAGE MULTIVUE ET DISPOSITIF D'AFFICHAGE MULTIVUE, ET PROCEDE FAISANT APPEL A DES ELEMENTS MULTIFAISCEAUX REFLECHISSANTS**
[72] FATTAL, DAVID A., US
[72] HOEKMAN, THOMAS, US
[72] BUKOWSKY, COLTON, US
[72] MA, MING, US
[73] LEIA INC., US
[85] 2022-02-16
[86] 2020-09-10 (PCT/US2020/050157)
[87] (WO2021/050694)
[30] US (62/899,699) 2019-09-12

[11] **3,151,776**
[13] C
[51] **Int.Cl. C07D 491/04 (2006.01) A61K 31/4184 (2006.01)**
[25] EN
[54] **HETEROCYCLIC AMIDE COMPOUND, PHARMACEUTICALLY ACCEPTABLE SALT THEREOF, AND PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **COMPOSE AMIDE HETEROCYCLIQUE, SEL PHARMACEUTIQUEMENT ACCEPTABLE DE CELUI-CI, ET SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] DUAN, WENHU, CN
[72] GENG, MEIYU, CN
[72] ZHANG, HUIBIN, CN
[72] XIE, ZUOQUAN, CN
[72] ZHOU, JINPEI, CN
[72] YANG, YIFEI, CN
[72] WANG, XIYUAN, CN
[72] YANG, XIAOJUN, CN
[72] ZHANG, YAN, CN
[72] HU, ZHAOXUE, CN
[72] DING, JIAN, CN
[73] SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, CN
[73] CHINA PHARMACEUTICAL UNIVERSITY, CN
[85] 2022-03-18
[86] 2020-09-21 (PCT/CN2020/116614)
[87] (WO2021/052501)
[30] CN (201910891002.7) 2019-09-19

[11] **3,153,090**
[13] C
[51] **Int.Cl. F24H 1/00 (2022.01) A47J 27/10 (2006.01)**
[25] EN
[54] **WAX HEATER**
[54] **FOUR A CIRE**
[72] SHEN, YI, CN
[73] SHENZHEN HEZHONGREN E-COMMERCE CO., LTD., CN
[86] (3153090)
[87] (3153090)
[22] 2022-03-18

[11] **3,153,651**
[13] C
[51] **Int.Cl. G02F 1/025 (2006.01) G02F 1/017 (2006.01)**
[25] EN
[54] **SEMICONDUCTOR MACH-ZEHNDER OPTICAL MODULATOR AND IQ MODULATOR**
[54] **MODULATEUR OPTIQUE DE MACH-ZEHNDER A SEMI-CONDUCTEUR ET MODULATEUR OPTIQUE IQ**
[72] OZAKI, JOSUKE, JP
[72] OGISO, YOSHIHIRO, JP
[72] HASHIZUME, YASUAKI, JP
[73] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP
[85] 2022-03-07
[86] 2019-09-12 (PCT/JP2019/035886)
[87] (WO2021/048972)

[11] **3,154,644**
[13] C
[51] **Int.Cl. H04W 48/20 (2009.01) H04W 16/18 (2009.01) H04W 24/02 (2009.01)**
[25] EN
[54] **OFDMA OPTIMIZED STEERING IN WI-FI NETWORKS**
[54] **DIRECTION OPTIMISEE OFDMA DANS DES RESEAUX WI-FI**
[72] MCFARLAND, WILLIAM J., US
[73] PLUME DESIGN, INC., US
[85] 2022-03-15
[86] 2020-09-14 (PCT/US2020/050633)
[87] (WO2021/067025)
[30] US (62/909,338) 2019-10-02
[30] US (17/010,957) 2020-09-03

[11] **3,155,159**
[13] C
[51] **Int.Cl. A01G 25/00 (2006.01) A01C 23/00 (2006.01)**
[25] EN
[54] **AUTONOMOUS SOLAR-POWERED IRRIGATION SYSTEM**
[54] **SYSTEME D'IRRIGATION AUTONOME A ENERGIE SOLAIRE**
[72] RENAUX, ANDREW, CA
[73] LEAF NINJAS INC., CA
[86] (3155159)
[87] (3155159)
[22] 2022-04-12
[30] US (17/718,716) 2022-04-12

[11] **3,156,202**
[13] C
[51] **Int.Cl. B60R 16/03 (2006.01) B60K 6/365 (2007.10) B60K 6/40 (2007.10) F16H 57/00 (2012.01)**
[25] EN
[54] **ELECTRIC POWER DEVICE**
[54] **DISPOSITIF D'ALIMENTATION ELECTRIQUE**
[72] KOYANAGI, HIROTAKA, JP
[73] TOYOTA JIDOSHA KABUSHIKI KAISHA, JP
[86] (3156202)
[87] (3156202)
[22] 2022-04-22
[30] JP (2021-102410) 2021-06-21

[11] **3,157,119**
[13] C
[51] **Int.Cl. E21B 17/10 (2006.01) C23C 24/10 (2006.01) E21B 7/04 (2006.01) E21B 17/04 (2006.01)**
[25] EN
[54] **WEAR ENHANCEMENT OF HDD DRILL STRING COMPONENTS**
[54] **AMELIORATION DE L'USURE DE COMPOSANTS DE TRAINS DE TIGES DE FORAGE FDD**
[72] MORE, MARK, US
[72] PLACEK, CASEY, US
[72] GIESE, TINA, US
[72] WESSING, JAMES, US
[73] KONDEX CORPORATION, US
[85] 2022-04-05
[86] 2020-11-20 (PCT/US2020/061499)
[87] (WO2021/108251)
[30] US (62/940,086) 2019-11-25
[30] US (16/951,356) 2020-11-18

[11] **3,157,401**
[13] C
[51] **Int.Cl. C22C 38/18 (2006.01) C21D 8/00 (2006.01) C21D 9/04 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) E01B 5/02 (2006.01)**
[25] EN
[54] **RAIL AND METHOD FOR PRODUCING THE SAME**
[54] **RAIL ET SON PROCEDE DE FABRICATION**
[72] TOKUNAGA, KAZUYA, JP
[72] ANDO, KEISUKE, JP
[73] JFE STEEL CORPORATION, JP
[85] 2022-04-06
[86] 2020-07-27 (PCT/JP2020/028616)
[87] (WO2021/070452)
[30] JP (2019-187316) 2019-10-11

[11] **3,157,568**
[13] C
[51] **Int.Cl. A47J 43/28 (2006.01) A47G 21/10 (2006.01)**
[25] EN
[54] **UTENSIL WITH CLAMP DEVICE**
[54] **USTENSILE COMPRENANT UN DISPOSITIF DE SERRAGE**
[72] ONG III, ISABELO R., CA
[73] ONG III, ISABELO R., CA
[86] (3157568)
[87] (3157568)
[22] 2022-05-04
[30] US (63/185,368) 2021-05-07

[11] **3,158,147**
[13] C
[51] **Int.Cl. B61L 7/00 (2006.01) B61L 25/02 (2006.01) G01C 21/10 (2006.01) G01S 13/58 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD TO SUPERVISE VEHICLE POSITIONING INTEGRITY**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE L'INTEGRITE DE POSITIONNEMENT D'UN VEHICULE**
[72] GREEN, ALON, CA
[72] TOBIN, JAMES KEVIN, CA
[72] BATCHELOR, ANDREW, CA
[73] GROUND TRANSPORTATION SYSTEMS CANADA INC., CA
[85] 2022-05-12
[86] 2020-12-10 (PCT/IB2020/061788)
[87] (WO2021/116982)
[30] US (62/946,024) 2019-12-10

[11] **3,158,485**
[13] C
[51] **Int.Cl. C12N 11/00 (2006.01) C12N 9/10 (2006.01) C12N 9/12 (2006.01) C12N 9/14 (2006.01) C12N 11/08 (2020.01) C12P 19/18 (2006.01) C12P 19/30 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **ENZYMATIC METHOD FOR PREPARATION OF UDP-GALACTOSE**
[54] **PROCEDE ENZYMATIQUE DE PREPARATION D'UDP-GALACTOSE**
[72] MAHOUR, REZA, DE
[72] REXER, THOMAS F. T., DE
[73] MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V., DE
[85] 2022-04-21
[86] 2020-09-30 (PCT/EP2020/077396)
[87] (WO2021/089251)
[30] EP (19207016.7) 2019-11-05

[11] **3,162,073**
[13] C
[51] **Int.Cl. H01Q 1/28 (2006.01) H04B 7/185 (2006.01)**
[25] EN
[54] **VARIABLE STAYOUT DISTANCE FOR BEAMHOPPING SATELLITE**
[54] **DISTANCIATION VARIABLE POUR SATELLITE A SAUT DE FAISCEAU**
[72] KAY, STANLEY E., US
[72] BHASKAR, UDAYA, US
[72] BECKER, NEAL DAVID, US
[73] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-06-15
[86] 2020-12-29 (PCT/US2020/067293)
[87] (WO2021/138311)
[30] US (16/729,870) 2019-12-30

[11] **3,162,218**
[13] C
[51] **Int.Cl. C10B 57/04 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING COAL BLEND AND METHOD FOR PRODUCING COKE**
[54] **PROCEDE DE PRODUCTION DE CHARBON MELANGE ET PROCEDE DE PRODUCTION DE COKE**
[72] IGAWA, DAISUKE, JP
[72] MATSUI, TAKASHI, JP
[72] DOHI, YUSUKE, JP
[73] JFE STEEL CORPORATION, JP
[85] 2022-06-16
[86] 2020-12-25 (PCT/JP2020/048673)
[87] (WO2021/140947)
[30] JP (2020-000716) 2020-01-07

[11] **3,163,929**
[13] C
[51] **Int.Cl. B22F 9/14 (2006.01)**
[25] EN
[54] **NEW SPHERICAL POWDER AND PREPARATION METHOD THEREFOR**
[54] **NOUVELLE POUDRE SPHERIQUE ET PROCEDE DE PREPARATION ASSOCIE**
[72] XU, HUI, CN
[72] YAO, QING, CN
[73] SHENZHEN AEROSPACE SCIENCE ADVANCED MATERIALS CO., LTD, CN
[85] 2022-06-07
[86] 2019-12-19 (PCT/CN2019/126466)
[87] (WO2021/088217)
[30] CN (201911082177.X) 2019-11-07
[30] CN (201911082147.9) 2019-11-07

[11] **3,164,313**
[13] C
[51] **Int.Cl. B01L 3/00 (2006.01) B67D 7/00 (2010.01)**
[25] EN
[54] **DISPENSING ASSEMBLY TO FACILITATE DISPENSING OF FLUID FROM A SAMPLE CYLINDER AND RELATED METHODS**
[54] **ASSEMBLAGE DE DISTRIBUTION POUR FACILITER LA DISTRIBUTION DE FLUIDE D'UN CYLINDRE D'ECHANTILLON ET METHODES CONNEXES**
[72] MITZEL, DONALD J., US
[72] BENDER, IV, GREGORY D., US
[72] ANDERSON, ANTHONY D., US
[72] MARKINS, ALEX M., US
[72] LANGENFELD, JOHN J., US
[72] JUSTICE, TAYLER M., US
[72] CHAUVIN, JASON M., US
[72] FAUCHAUX, MICHAEL, US
[72] STEIB, RONALD, US
[73] MARATHON PETROLEUM COMPANY LP, US
[86] (3164313)
[87] (3164313)
[22] 2022-06-20
[30] US (63/261,566) 2021-09-23
[30] US (63/261,874) 2021-09-30
[30] US (17/841,992) 2022-06-16

[11] **3,164,901**
[13] C
[51] **Int.Cl. A23P 10/30 (2016.01) A23L 29/20 (2016.01) A23L 29/212 (2016.01) A23L 29/231 (2016.01) A23L 29/238 (2016.01) A23L 29/269 (2016.01) A23P 20/10 (2016.01) A61K 8/11 (2006.01) A61K 8/73 (2006.01) A61K 9/48 (2006.01) A61K 47/36 (2006.01)**
[25] EN
[54] **STARCH FILM-FORMING COMPOSITIONS AND METHODS OF THEIR USE FOR PREPARING CAPSULE SHELLS**
[54] **COMPOSITION DE FORMATION DE FILM D'AMIDON ET PROCEDE DE PREPARATION D'ENVELOPPE DE CAPSULE**
[72] LI, XUFA, CN
[72] CHEN, QIONG, CN
[72] YANG, XUTENG, CN
[72] CHEN, JIEWEI, CN
[73] SIRIO PHARMA CO., LTD., CN
[85] 2022-07-14
[86] 2021-12-28 (PCT/CN2021/142077)
[87] (WO2022/143667)
[30] CN (202011619863.9) 2020-12-31

[11] **3,166,413**
[13] C
[51] **Int.Cl. G01S 11/00 (2006.01) B61L 25/02 (2006.01) G01S 11/02 (2010.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF CALIBRATING A RANGE MEASUREMENT SYSTEM**
[54] **SYSTEMES ET METHODES D'ETALONNAGE D'UN SYSTEME DE TELEMETRIE**
[72] GREEN, ALON, CA
[72] DE-THOMASIS, MARCO, CA
[72] TOBIN, KEVIN, CA
[73] GROUND TRANSPORTATION SYSTEMS CANADA INC., CA
[85] 2022-07-28
[86] 2022-02-01 (PCT/IB2022/050877)
[87] (WO2022/162647)
[30] US (63/144,271) 2021-02-01

[11] **3,167,484**
[13] C
[51] **Int.Cl. A23K 20/20 (2016.01) A23K 50/10 (2016.01) A61K 33/04 (2006.01) A61K 33/30 (2006.01) A61K 33/32 (2006.01) A61K 33/34 (2006.01)**
[25] EN
[54] **TRACE ELEMENT SOLUTION**
[54] **SOLUTION A BASE D'OLIGO-ELEMENTS**
[72] SMITH, WILLIAM A., IE
[73] WARBURTON TECHNOLOGY LIMITED, IE
[86] (3167484)
[87] (3167484)
[22] 2015-10-09
[62] 3,001,104

[11] **3,168,189**
[13] C
[51] **Int.Cl. G01N 1/40 (2006.01) B01D 35/02 (2006.01) G01N 9/00 (2006.01) G01N 33/24 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS**
[54] **SYSTEME D'ECHANTILLONNAGE AGRICOLE ET METHODES CONNEXES**
[72] HARMAN, REID, US
[72] LEVY, KENT, US
[72] KOCH, DALE, US
[73] PRECISION PLANTING LLC, US
[85] 2022-07-12
[86] 2021-02-10 (PCT/IB2021/051076)
[87] (WO2021/171120)
[30] US (62/983,237) 2020-02-28

[11] **3,168,345**
[13] C
[51] **Int.Cl. A63G 31/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REACTIVE PROJECTION-MAPPED SHOW ROBOT**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT POUR ROBOT DE SPECTACLE CARTOGRAPHIE PAR PROJECTION REACTIVE**
[72] SMITH, MICHELLE ELIZABETH, US
[73] UNIVERSAL CITY STUDIOS LLC, US
[85] 2022-08-17
[86] 2021-03-01 (PCT/US2021/020325)
[87] (WO2021/178324)
[30] US (16/806,722) 2020-03-02

[11] **3,168,527**
[13] C
[51] **Int.Cl. B02C 4/02 (2006.01) B02C 4/32 (2006.01)**
[25] EN
[54] **TEST ARRANGEMENT AND METHOD FOR TESTING BREAKAGE AND MECHANICAL PROPERTIES OF ROCK PARTICLES**
[54] **AGENCEMENT ET PROCEDE D'ESSAI D'ESSAI DE PROPRIETES DE RUPTURE ET MECANIQUES DE PARTICULES DE ROCHE**
[72] DE PAIVA BUENO, MARCOS, FI
[72] TORVELA, JANNE, FI
[72] CHANDRAMOHAN, RAJIV, FI
[73] GEOPYORA OY, FI
[85] 2022-08-18
[86] 2020-02-18 (PCT/FI2020/050100)
[87] (WO2020/136309)

[11] **3,168,669**
[13] C
[51] **Int.Cl. B42D 25/328 (2014.01) B42D 25/40 (2014.01) B32B 7/023 (2019.01) B29C 65/54 (2006.01) B32B 3/16 (2006.01) C08J 5/18 (2006.01)**
[25] EN
[54] **AN IMPROVED POLYMERIC SHEET MATERIAL FOR USE IN MAKING POLYMERIC SECURITY DOCUMENTS SUCH AS BANKNOTES**
[54] **MATERIAU EN FEUILLE POLYMERE AMELIORE DESTINE A ETRE UTILISE DANS LA FABRICATION DE DOCUMENTS DE SECURITE POLYMERES TELS QUE DES BILLETS DE BANQUE**
[72] CAPE, SAMUEL M., US
[72] COTE, PAUL F., US
[72] GOSNELL, JONATHAN D., US
[73] VISUAL PHYSICS, LLC, US
[73] CRANE SECURITY TECHNOLOGIES, INC., US
[86] (3168669)
[87] (3168669)
[22] 2015-07-16
[62] 2,955,372
[30] US (62/025,637) 2014-07-17

[11] **3,169,657**
[13] C
[51] **Int.Cl. H01M 4/134 (2010.01) H01M 4/1395 (2010.01) H01M 4/76 (2006.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **LITHIUM ELECTRODE ADAPTED FOR LITHIUM-ION SECONDARY BATTERIES**
[54] **ELECTRODE AU LITHIUM POUR BATTERIES SECONDAIRES AU LITHIUM-ION**
[72] YANG, SZU-NAN, CN
[73] PROLOGIUM TECHNOLOGY CO., LTD., CN
[73] PROLOGIUM HOLDING INC., KY
[86] (3169657)
[87] (3169657)
[22] 2022-08-05
[30] TW (110132793) 2021-09-03

[11] **3,171,801**
[13] C
[51] **Int.Cl. H04N 21/414 (2011.01) H04W 88/02 (2009.01) A47G 1/02 (2006.01) H04N 5/44 (2011.01) H04N 21/643 (2011.01) H04W 4/80 (2018.01) G09B 5/02 (2006.01)**
[25] EN
[54] **A REFLECTIVE VIDEO DISPLAY APPARATUS FOR INTERACTIVE TRAINING AND DEMONSTRATION AND METHODS OF USING SAME**
[54] **APPAREIL D'AFFICHAGE VIDEO REFLECHISSANT POUR FORMATION ET DEMONSTRATION INTERACTIVES, ET PROCEDES D'UTILISATION ASSOCIES**
[72] PUTNAM, BRYNN, US
[73] CURIOUSER PRODUCTS INC., US
[86] (3171801)
[87] (3171801)
[22] 2019-05-29
[62] 3,101,984
[30] US (62/677,351) 2018-05-29

[11] **3,173,447**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) G01N 27/327 (2006.01) G01N 33/497 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL SENSOR ARRANGEMENT, BREATH ALCOHOL MEASURING DEVICE AND PROCESS FOR DETERMINING A VITALITY OF ELECTRODES OF AN ELECTROCHEMICAL SENSOR**
[54] **ENSEMBLE CAPTEUR ELECTROCHIMIQUE, ETHYLOMETRE ET PROCEDE DE DETERMINATION D'UNE VITALITE D'ELECTRODES D'UN CAPTEUR ELECTROCHIMIQUE**
[72] BAESLER, MALTE, DE
[73] DRAGER SAFETY AG & CO. KGAA, DE
[85] 2022-09-26
[86] 2021-05-27 (PCT/EP2021/064198)
[87] (WO2021/254760)
[30] DE (10 2020 115 804.1) 2020-06-16

[11] **3,176,076**
[13] C
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/513 (2006.01) A61K 47/34 (2017.01) A61P 19/04 (2006.01)**
[25] EN
[54] **DRUG DELIVERY DEVICES AND METHODS OF MAKING AND USING SAME**
[54] **DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**
[72] BLAKE, DIANE A., US
[72] JOHN, VIJAY T., US
[72] AYYALA, RAMESH, US
[72] REISS, KRZYSTOF, US
[73] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US
[86] (3176076)
[87] (3176076)
[22] 2013-08-29
[62] 2,883,474
[30] US (61/694,455) 2012-08-29

[11] **3,181,896**
[13] C
[51] **Int.Cl. H01S 5/026 (2006.01) H01S 5/02208 (2021.01) H01S 5/02255 (2021.01) H01S 5/02315 (2021.01) H01S 5/02326 (2021.01) G01S 17/02 (2020.01) H01S 5/50 (2006.01) H01S 5/0683 (2006.01)**
[25] EN
[54] **SEMICONDUCTOR LASER AND OPTICAL AMPLIFIER PHOTONIC PACKAGE**
[54] **LASER A SEMI-CONDUCTEUR ET BOITIER PHOTONIQUE D'AMPLIFICATEUR OPTIQUE**
[72] WANG, LEI, US
[72] LIN, SEN, US
[72] MICHAELS, ANDREW STEIL, US
[73] AURORA OPERATIONS, INC., US
[85] 2022-12-07
[86] 2021-06-30 (PCT/US2021/040003)
[87] (WO2022/006345)
[30] US (63/046,906) 2020-07-01
[30] US (17/362,080) 2021-06-29

[11] **3,189,466**
[13] C
[51] **Int.Cl. F23R 3/14 (2006.01) F23R 3/28 (2006.01)**
[25] EN
[54] **PREMIXER INJECTOR ASSEMBLY IN GAS TURBINE ENGINE**
[54] **ENSEMBLE INJECTEUR DE PREMELANGE DANS UN MOTEUR A TURBINE A GAZ**
[72] VERSAILLES, PHILIPPE, CA
[72] WATSON, GRAEME, CA
[72] FURI, MARC, CA
[73] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2023-01-13
[86] 2020-07-17 (PCT/US2020/042489)
[87] (WO2022/015321)

[11] **3,189,604**
[13] C
[51] **Int.Cl. G06F 16/68 (2019.01)**
[25] EN
[54] **DANCE SEGMENT RECOGNITION METHOD, DANCE SEGMENT RECOGNITION APPARATUS, AND STORAGE MEDIUM**
[54] **PROCEDE DE RECONNAISSANCE DE SEGMENT DE DANSE, APPAREIL DE RECONNAISSANCE DE SEGMENT DE DANSE, ET SUPPORT DE STOCKAGE**
[72] ZHOU, MO, CN
[72] YANG, XIWEN, CN
[72] QU, WEI, CN
[72] WANG, QIMING, CN
[72] ZHANG, PENGSHEN, CN
[72] TONG, YALONG, CN
[73] NEW ORIENTAL EDUCATION & TECHNOLOGY GROUP INC., CN
[85] 2023-02-15
[86] 2021-09-28 (PCT/CN2021/121346)
[87] (WO2022/068823)
[30] CN (202011052113.8) 2020-09-29

[11] **3,189,741**
[13] C
[51] **Int.Cl. G02B 21/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PERFORMING MICROSCOPIC ANALYSIS OF A SAMPLE**
[54] **SYSTEMES ET PROCEDES D'ANALYSE MICROSCOPIQUE D'UN ECHANTILLON**
[72] OGIEN, JONAS, FR
[72] LEVECQ, OLIVIER, FR
[73] DAMAE MEDICAL, FR
[85] 2023-01-17
[86] 2021-07-06 (PCT/EP2021/068661)
[87] (WO2022/017784)
[30] FR (FR2007700) 2020-07-22

[11] **3,192,406**
[13] C
[51] **Int.Cl. A61K 31/05 (2006.01) A61K 36/60 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **CANNABINOID COMPOSITION AND APPLICATION THEREOF IN PREPARATION OF DRUG FOR TREATING NEURODEGENERATIVE DISEASES SUCH AS PARKINSON'S DISEASE AND ALZHEIMER'S DISEASE**
[54] **COMPOSITION DE CANNABINOIDES ET SON APPLICATION DANS LA PREPARATION D'UN MEDICAMENT POUR LE TRAITEMENT DE MALADIES NEURODEGENERATIVES TELLES QUE LA MALADIE DE PARKINSON ET LA MALADIE D'ALZHEIME**
[72] ZOU, CHENDONG, CN
[72] TAI, HEI, CN
[72] WANG, GUIJIANG, CN
[72] XIAO, WAN, CN
[72] HUANG, SUI, CN
[73] HEMPIRE (SHANGHAI) PHARMACEUTICAL R&D LIMITED, CN
[85] 2023-03-10
[86] 2021-11-26 (PCT/CN2021/133379)
[87] (WO2023/015772)
[30] CN (202110916566.9) 2021-08-11

[11] **3,196,744**
[13] C
[51] **Int.Cl. H04L 65/403 (2022.01) H04L 47/783 (2022.01) H04L 65/4061 (2022.01) H04L 67/63 (2022.01) G06F 9/50 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM TO SEAMLESSLY UPGRADE CLOUD-BASED CALL PROCESSING SERVICES**
[54] **PROCEDE ET SYSTEME DE MISE A NIVEAU SANS INTERRUPTION DE SERVICES DE TRAITEMENT D'APPEL EN NUAGE**
[72] ANTEMIJCZUK, PAWEL, DK
[72] GALEANO, FERNANDO CASANOVA, DK
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2023-04-26
[86] 2021-11-01 (PCT/US2021/057511)
[87] (WO2022/108739)
[30] US (17/101,264) 2020-11-23

[11] **3,200,772**
[13] C
[51] **Int.Cl. A61B 18/26 (2006.01)**
[25] EN
[54] **OPTICAL ANALYZER ASSEMBLY WITH SAFETY SHUTDOWN SYSTEM FOR INTRAVASCULAR LITHOTRIPSY DEVICE**
[54] **ENSEMBLE ANALYSEUR OPTIQUE AVEC SYSTEME D'ARRET DE SECURITE POUR DISPOSITIF DE LITHOTRITIE INTRAVASCULAIRE**
[72] COOK, CHRISTOPHER A., US
[72] SCHULTHEIS, ERIC, US
[72] TROUTMAN, RACHEL LYNN, US
[72] SWIFT, JAMES DEE, US
[73] BOLT MEDICAL, INC., US
[85] 2023-05-31
[86] 2022-05-06 (PCT/US2022/028035)
[87] (WO2022/240674)
[30] US (63/186,391) 2021-05-10
[30] US (17/736,894) 2022-05-04

[11] **3,201,562**
[13] C
[51] **Int.Cl. E21B 21/06 (2006.01) E21B 31/03 (2006.01) E21B 47/04 (2012.01) E21B 47/12 (2012.01) E21B 49/00 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUSES FOR IDENTIFYING GROUNDWATER DURING ROCK DRILL CUTTING**
[54] **SYSTEMES, PROCEDES ET APPAREILS POUR IDENTIFIER DES EAUX SOUTERRAINES PENDANT LE FORAGE DE LA ROCHE**
[72] PETERSON, JAMES, US
[72] HOWELL, RYAN, US
[73] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US
[85] 2023-06-07
[86] 2021-11-11 (PCT/US2021/058882)
[87] (WO2022/132348)
[30] US (17/122,131) 2020-12-15

[11] **3,203,235**
[13] C
[51] **Int.Cl. A61K 31/192 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **TREATMENT OF CHOLANGIOPATHIES WITH SELADELPAR**
[54] **TRAITEMENT DE CHOLANGIOPATHIES AVEC LE SELADELPAR**
[72] CHOI, YUN-JUNG, US
[72] MCWHERTER, CHARLES A., US
[72] STEINBERG, ALEXANDRA S., US
[72] YANG, KE, US
[73] CYMABAY THERAPEUTICS, INC., US
[85] 2023-06-22
[86] 2022-01-29 (PCT/US2022/014464)
[87] (WO2022/165288)
[30] US (63/144,355) 2021-02-01

[11] **3,205,058**
[13] C
[51] **Int.Cl. A61K 47/68 (2017.01) C07K 14/55 (2006.01)**
[25] EN
[54] **CONJUGATE OF IMMUNE-STIMULATING IL-2 ANALOG AND PREPARATION METHOD THEREOF**
[54] **CONJUGUE D'ANALOGUE IL-2 DE STIMULATION IMMUNITAIRE ET METHODE D E PREPARATION**
[72] HEO, YONG HO, KR
[72] OH, EUH LIM, KR
[72] PARK, DA HYEON, KR
[72] KIM, JIN YOUNG, KR
[72] PARK, JUN SUB, KR
[72] KIM, YU YON, KR
[72] LEE, A RAM, KR
[72] KIM, SANG YUN, KR
[73] HANMI PHARM. CO., LTD., KR
[85] 2023-07-13
[86] 2022-03-31 (PCT/KR2022/004620)
[87] (WO2022/211537)
[30] KR (10-2021-0042305) 2021-03-31

[11] **3,207,244**
[13] C
[51] **Int.Cl. B26B 21/52 (2006.01)**
[25] EN
[54] **PROPRIOCEPTIVE SHAVER**
[54] **RASOIR PROPRIOCEPTIF**
[72] LICHTBLAU, CRAIG H., US
[73] CLJI WORLDWIDE, LLC, US
[85] 2023-07-05
[86] 2021-12-10 (PCT/US2021/062828)
[87] (WO2022/150145)
[30] US (17/144,953) 2021-01-08

[11] **3,208,916**
[13] C
[51] **Int.Cl. G02B 6/02 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL CABLE**
[54] **CABLE OPTIQUE**
[72] LEE, MAN SU, KR
[73] LS CABLE & SYSTEM LTD., KR
[85] 2023-08-18
[86] 2022-01-20 (PCT/KR2022/001031)
[87] (WO2022/270706)
[30] KR (10-2021-0082674) 2021-06-24
[30] KR (10-2021-0087588) 2021-07-05

[11] **3,209,235**
[13] C
[51] **Int.Cl. C08B 15/06 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING CELLULOSE CARBAMATE**
[54] **PROCEDE DE PRODUCTION DE CARBAMATE DE CELLULOSE**
[72] MALANIN, ERKKI, FI
[72] MAKELA, JANI, FI
[72] SIREN, SAKARI, FI
[72] STJERNBERG, MARTIN, FI
[72] HARLIN, ALI, FI
[73] INFINITED FIBER COMPANY OY, FI
[85] 2023-08-22
[86] 2022-02-28 (PCT/FI2022/050126)
[87] (WO2022/180309)
[30] FI (20215213) 2021-02-26

[11] **3,209,907**
[13] C
[51] **Int.Cl. C10L 9/08 (2006.01) C10L 5/04 (2006.01)**
[25] EN
[54] **SOLID-LIQUID CRUDE OIL COMPOSITIONS AND PROCESSES**
[54] **COMPOSITIONS ET PROCEDES DE PETROLE BRUT SOLIDE-LIQUIDE**
[72] SNAITH, PAUL, GB
[72] UNSWORTH, JOHN FRANCIS, GB
[73] ARQ IP LIMITED, GB
[86] (3209907)
[87] (3209907)
[22] 2017-04-04
[62] 3,016,979
[30] GB (1605767.1) 2016-04-04
[30] GB (1607563.2) 2016-04-29

---

[11] **3,210,120**
[13] C
[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **HYBRIDIZATION CHAIN REACTION METHODS FOR IN SITU MOLECULAR DETECTION**
[54] **PROCEDES DE REACTION EN CHAINE D'HYBRIDATION POUR LA DETECTION MOLECULAIRE IN SITU**
[72] DAUGHARTHY, EVAN R., US
[72] CHURCH, GEORGE M., US
[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[86] (3210120)
[87] (3210120)
[22] 2017-04-25
[62] 3,022,290
[30] US (62/326,959) 2016-04-25

---

[11] **3,213,756**
[13] C
[51] **Int.Cl. C07C 49/12 (2006.01) C07C 45/59 (2006.01) C07D 207/323 (2006.01)**
[25] EN
[54] **TWO-STEP SYNTHESIS OF PYRROLE COMPOUNDS FROM FURAN COMPOUNDS**
[54] **SYNTHESE EN DEUX ETAPES DE COMPOSES PYRROLE A PARTIR DE COMPOSES FURANIQUES**
[72] LASSEN, KENNETH M., US
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2023-09-14
[86] 2022-03-17 (PCT/US2022/020780)
[87] (WO2022/197944)
[30] US (17/202,481) 2021-03-16

---

[11] **3,223,761**
[13] C
[51] **Int.Cl. G08B 13/196 (2006.01)**
[25] EN
[54] **VIDEO CAMERA WITH ALIGNMENT FEATURE**
[54] **CAMERA VIDEO DOTEE DE CARACTERISTIQUE D'ALIGNEMENT**
[72] CHEN, GUO WEI, US
[72] TRAN, CHI T., US
[72] SAMSUDIN, IMADI SAFWAN, MY
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2023-12-20
[86] 2022-06-29 (PCT/US2022/035415)
[87] (WO2023/283081)
[30] US (17/368,388) 2021-07-06

---

[11] **3,224,192**
[13] C
[51] **Int.Cl. E21B 29/02 (2006.01) E21B 23/04 (2006.01) E21B 43/114 (2006.01)**
[25] EN
[54] **PERFORATING TORCH APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE CHALUMEAU DE PERFORATION**
[72] ROBERTSON, MICHAEL C., US
[73] ROBERTSON INTELLECTUAL PROPERTIES, LLC, US
[85] 2023-12-15
[86] 2022-06-15 (PCT/US2022/033627)
[87] (WO2022/271508)
[30] US (63/215,268) 2021-06-25
[30] US (17/840,377) 2022-06-14

Canadian Applications Open to Public Inspection

March 24, 2024 to March 30, 2024

Demandes canadiennes mises à la disponibilité du public

24 mars 2024 au 30 mars 2024

[21] **3,176,017**
[13] A1
[51] **Int.Cl. G06Q 30/04 (2012.01) G06Q 10/10 (2023.01) G06Q 40/02 (2023.01)**
[25] EN
[54] **ACCUMULATED RESOURCE ACCESS USING REQUEST-TO-TRANSFER**
[54] **ACCES A UNE RESSOURCE ACCUMULEE AU MOYEN D~UNE DEMANDE DE TRANSFERT**
[72] DUNJIC, MILOS, CA
[72] TAX, DAVID SAMUEL, CA
[72] RASTOGI, KUSHANK, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-09-27
[41] 2024-03-27

[21] **3,176,068**
[13] A1
[51] **Int.Cl. E05B 75/00 (2006.01)**
[25] EN
[54] **SMART DOUBLE-LOCK HANDCUFF**
[54] **MENOTTES INTELLIGENTES A DOUBLE VERROU**
[72] JACKUNAS, MINTAUTAS, CA
[72] PENA RONCERO, BLANCA, CA
[71] BPE TECHNOLOGIES INC., CA
[22] 2022-09-26
[41] 2024-03-26

[21] **3,176,153**
[13] A1
[51] **Int.Cl. B24C 5/00 (2006.01) F16P 3/00 (2006.01)**
[25] EN
[54] **ABRASIVE BLASTING NOZZLE HOLDER INTEGRATING ELECTRIC DEADMAN SWITCH**
[54] **PORTE-BUSE DE GRENAILLAGE INTEGRANT UN COMMUTATEUR AUTOMATIQUE ELECTRIQUE**
[72] PELLETIER, RENAUD, CA
[72] PELLETIER, RENAUD, CA
[71] PELLETIER, RENAUD, CA
[71] PELLETIER, RENAUD, CA
[22] 2022-09-27
[41] 2024-03-27

[21] **3,176,687**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2023.01) G06F 21/62 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING THRID PARTY ACCESS TO A SYSTEM**
[54] **SYSTEME ET METHODE POUR FOURNIR UN ACCES TIERS A UN SYSTEME**
[72] SZVATH, RICHARD TITUS, CA
[72] TADDEI, FABIO, CA
[72] VALOSHYN, VITALI, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-09-27
[41] 2024-03-27

[21] **3,176,835**
[13] A1
[51] **Int.Cl. G06F 21/30 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PERFORMING AN INFORMATION TECHNOLOGY SECURITY RISK ASSESSMENT**
[54] **SYSTEME ET METHODE POUR REALISER UNE EVALUATION DES RISQUES DE SECURITE DE TECHNOLOGIE DE L'INFORMATION**
[72] REMACLE, MICHEL MAURICE, CA
[72] KENNEDY, CHARLES ALASTAIR, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-09-26
[41] 2024-03-26

[21] **3,176,921**
[13] A1
[51] **Int.Cl. E04F 13/077 (2006.01) E04C 2/10 (2006.01) E04C 2/30 (2006.01) B32B 7/022 (2019.01) B32B 7/027 (2019.01) B32B 3/14 (2006.01)**
[25] EN
[54] **A BUILDING PANEL ASSEMBLY**
[54] **ASSEMBLAGE DE PANNEAU DE CONSTRUCTION**
[72] HASENBERGER, GEORG, CA
[71] KARLTA TRADING INC., CA
[22] 2022-09-28
[41] 2024-03-28

[21] **3,176,997**
[13] A1
[51] **Int.Cl. G01N 24/08 (2006.01) G01R 33/46 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD, AND MEDIUM FOR END TO END NMR BASED CRUDE PLANT OPTIMIZATION**
[54] **SYSTEME, METHODE ET SUPPORT POUR L'OPTIMISATION D'UNE INSTALLATION DE TRAITEMENT DES HYDROCARBURES BRUTS A BASE DE RESONANCE MAGNETIQUE NUCLEAIRE**
[72] MISTRY, SHAHSHIKANT, CA
[72] PETERS, NATHANIEL, CA
[71] SUNCOR ENERGY INC., CA
[22] 2022-09-29
[41] 2024-03-29

[21] **3,177,135**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV217310**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV217310**
[72] ZHANG, XUEHUA, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

---

[21] **3,177,143**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV941661**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV941661**
[72] ARNAUD, EMILIE, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

---

[21] **3,177,147**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV826428**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV826428**
[72] ARNAUD, EMILIE, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

---

[21] **3,177,153**
[13] A1
[51] **Int.Cl. F24D 5/02 (2006.01) F24H 9/1854 (2022.01) F24H 3/04 (2022.01) F25D 1/00 (2006.01) F25D 31/00 (2006.01) G06F 1/20 (2006.01)**
[25] EN
[54] **CRYPTOCURRENCY MINING FURNACE**
[54] **FOUR DE CRYPTOMINAGE**
[72] LANDRY, JOEL, CA
[71] LANDRY, JOEL, CA
[22] 2022-09-28
[41] 2024-03-28

---

[21] **3,177,348**
[13] A1
[51] **Int.Cl. F25B 35/04 (2006.01) F25B 17/00 (2006.01) F28D 20/00 (2006.01)**
[25] EN
[54] **SORPTION HEAT TRANSFORMER AND THERMAL STORAGE**
[54] **TRANSFORMATEUR DE CHALEUR ET STOCKAGE THERMIQUE**
[72] BAHRAMI, MAJID, CA
[71] SIMON FRASER UNIVERSITY, CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,177,384**
[13] A1
[51] **Int.Cl. F15D 1/08 (2006.01) F15D 1/02 (2006.01)**
[25] EN
[54] **NOZZLES AND USE IN OIL SANDS ROTARY BREAKER**
[54] **BUSES ET UTILISATION DANS UN TROMMEL ROTATIF DE SABLES BITUMINEUX**
[72] IVEY, MARCUS, CA
[72] KEYS, DANIEL, CA
[72] REMESAT, DARIUS, CA
[72] LI, YOUNG, CA
[72] WALDBILLIG, DAVE, CA
[71] SUNCOR ENERGY INC., CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,177,386**
[13] A1
[51] **Int.Cl. B61G 5/02 (2006.01) B61D 3/10 (2006.01) B61D 3/12 (2006.01)**
[25] EN
[54] **MULTI-UNIT RAILROAD CAR AND RAILROAD CAR TRUCKS THEREFOR**
[54] **WAGONS A UNITES MULTIPLES ET BOGIES CONNEXES**
[72] HEMATIAN, JAMAL, CA
[72] YAN, ZIJIAN, CA
[71] NATIONAL STEEL CAR, CA
[22] 2022-09-29
[41] 2024-03-28
[30] US (63/410,746) 2022-09-28

---

[21] **3,177,418**
[13] A1
[51] **Int.Cl. F25B 45/00 (2006.01) F17C 13/02 (2006.01)**
[25] EN
[54] **PORTABLE REFRIGERANT MANAGEMENT SYSTEM AND REFRIGERANT MANAGEMENT METHOD**
[54] **SYSTEME DE GESTION DE FRIGORIGENE PORTATIF ET METHODE DE GESTION DE FRIGORIGENE**
[72] DOMINIQUE, ANDY, CA
[71] DOMINIQUE, ANDY, CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,177,434**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV716780**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV716780**
[72] ZHANG, XUEHUA, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

[21] **3,177,458**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV927589**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV927589**
[72] ARNAUD, EMILIE, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

[21] **3,177,462**
[13] A1
[51] **Int.Cl. H04L 67/141 (2022.01)**
[25] EN
[54] **METHODS FOR CONFIGURING SERVER COMMUNICATIONS**
[54] **METHODES POUR CONFIGURER DES COMMUNICATIONS DE SERVEUR**
[72] VENKATESH, ABHIJITH, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-09-29
[41] 2024-03-29

[21] **3,177,478**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV890400**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV890400**
[72] ARNAUD, EMILIE, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

[21] **3,177,483**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV686590**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV686590**
[72] BURNS, DALE, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

[21] **3,177,484**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/20 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS AND SEEDS OF CANOLA VARIETY SCV704700**
[54] **PLANTES ET SEMENCES DE LA VARIETE DE CANOLA SCV704700**
[72] ARNAUD, EMILIE, US
[71] MONSANTO TECHNOLOGY LLC, US
[22] 2022-09-28
[41] 2024-03-28

[21] **3,177,499**
[13] A1
[51] **Int.Cl. G06Q 20/34 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **ACCESS PROVISIONS FOR VIRTUAL CARDS**
[54] **GESTION D'ACCES POUR CARTES VIRTUELLES**
[72] RAMCHAND, SHAWN, CA
[71] GIESECKE+DEVRIENT MOBILE SECURITY GMBH, DE
[22] 2022-09-29
[41] 2024-03-29

[21] **3,177,500**
[13] A1
[51] **Int.Cl. A61K 31/145 (2006.01) A61K 9/14 (2006.01) A61K 9/72 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **METHOD OF TREATING A PERSON AFFLICTED WITH COVID-19 AND PHARMACEUTICAL FORMULATION INCLUDING DAPSONE**
[54] **METHODE DE TRAITEMENT D'UNE PERSONNE ATTEINTE DE LA COVID-19 ET FORMULATION PHARMACEUTIQUE COMPRENANT DE LA DAPSONE**
[72] SEKHAVAT, HOUFAR, CA
[72] ASOTRA, SATISH, CA
[71] PULMONEM INC., CA
[22] 2022-09-29
[41] 2024-03-28
[30] US (17/955,337) 2022-09-28

[21] **3,177,664**
[13] A1
[51] **Int.Cl. B03D 1/12 (2006.01)**
[25] EN
[54] **DISTRIBUTOR CONFIGURATIONS AND SYSTEMS FOR SEPARATING A SOLVENT FROM TAILINGS**
[54] **CONFIGURATIONS DE DISTRIBUTEUR ET SYSTEMES DE SEPARATION D'UN SOLVANT DES RESIDUS**
[72] VAN DER MERWE, SHAWN, CA
[72] CHAN, DANIEL, CA
[72] STANNARD, TRACEY, CA
[72] GUPTA, SIDDHARTH, CA
[72] VAKIL, ALI, CA
[71] FORT HILLS ENERGY L.P., CA
[22] 2022-09-29
[41] 2024-03-29

[21] **3,177,667**
[13] A1
[51] **Int.Cl. A01K 1/00 (2006.01) B60P 3/04 (2006.01) E04H 17/18 (2006.01)**
[25] EN
[54] **PORTABLE LIVESTOCK CORRAL WITH DUAL AND SINGLE ALLEY MODES OF OPERATION, BUD BOX CAPABILITY, AND TRANSPORT SAFETY BAR**
[54] **CORRAL A BETAIL PORTATIF POSSEDANT DES MODES D'EXPLOITATION A UNE OU DEUX RANGEES, UNE CAPACITE DE BOITE DE CONTENTION ET UNE BARRE DE SECURITE DE TRANSPORT**
[72] LANGRELL, STEPHEN ARTHUR, CA
[71] NORTHQUIP INC., CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,177,748**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G06Q 30/0241 (2023.01) B66B 31/00 (2006.01) G07B 1/00 (2006.01) G07D 11/00 (2019.01)**
[25] EN
[54] **ESCALATOR PROFIT SYSTEM (EPS) PATENT**
[54] **BREVET DE SYSTEME DE PROFIT D~ESCALIER MECANIQUE**
[72] SULLIVAN, BENJAMIN, CA
[71] SULLIVAN, BENJAMIN, CA
[22] 2022-09-27
[41] 2024-03-27

---

[21] **3,177,813**
[13] A1
[51] **Int.Cl. A63H 18/02 (2006.01) A63H 18/04 (2006.01)**
[25] EN
[54] **TOY VEHICLE TRACK WITH LIFT, RELEASE AND STUNT APPARATUSES**
[54] **PISTE DE VEHICULE JOUET COMPRENANT DES APPAREILS DE LEVAGE, DE LIBERATION ET DE CASCADE**
[72] SHELTMAN, DAVID, CA
[72] HALPERT, ELI, CA
[72] BRAVO, LILIANNA, CA
[72] KWAN, ADRIAN, CA
[71] SPIN MASTER LTD., CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,177,837**
[13] A1
[51] **Int.Cl. B60P 7/04 (2006.01) B62D 33/04 (2006.01)**
[25] EN
[54] **MANUAL DISCONNECT SYSTEM FOR POWERED RETRACTABLE COVER**
[54] **SYSTEME DE DECONNEXION MANUELLE POUR UN COUVRE-CAISSE RETRACTABLE ELECTRIQUE**
[72] SPRAY, LUCAS R., US
[71] RETRAX HOLDINGS, LLC, US
[22] 2022-09-29
[41] 2024-03-27
[30] US (17/953,952) 2022-09-27

---

[21] **3,177,894**
[13] A1
[51] **Int.Cl. B67D 7/74 (2010.01) B67D 7/04 (2010.01) B01F 25/422 (2022.01)**
[25] EN
[54] **FUEL TREATMENT SYSTEM FOR RETAIL FUELING STATIONS AND RELATED METHODS**
[54] **SYSTEME DE TRAITEMENT DE COMBUSTIBLE POUR DES STATIONS D'ESSENCE DE DETAIL ET METHODES CONNEXES**
[72] SWANEK, DENNIS, CA
[72] PANAG, JASDEEP, CA
[71] TOTAL METER SERVICES INC., CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,177,933**
[13] A1
[51] **Int.Cl. B65G 65/28 (2006.01) B65G 57/03 (2006.01) B65G 57/112 (2006.01) B65G 57/16 (2006.01)**
[25] EN
[54] **CARRIAGELESS STOCKPILING CONVEYOR**
[54] **CONVOYEUR D'ACCUMULATION DE STOCKS SANS CHARIOTS**
[72] JOHANNSEN, THORKIL, CA
[71] THOR GLOBAL ENTERPRISES LTD., CA
[22] 2022-09-29
[41] 2024-03-29

---

[21] **3,178,005**
[13] A1
[51] **Int.Cl. A46B 11/02 (2006.01) A46B 11/00 (2006.01) A47K 7/03 (2006.01) A47L 13/10 (2006.01)**
[25] EN
[54] **REFILLABLE PERSONAL HYGIENE PRODUCT DISPENSER**
[54] **DISTRIBUTEUR DE PRODUITS HYGIENIQUES PERSONNELS REMPLISSABLE**
[72] ROBERTS, JAMES, CA
[72] HANSEN, TODD, CA
[71] BATTEN INDUSTRIES INC., CA
[22] 2022-09-30
[41] 2024-03-30

---

[21] **3,178,024**
[13] A1
[51] **Int.Cl. H02S 30/00 (2014.01)**
[25] EN
[54] **REPAIR METHOD FOR SEALING THE BACK OF PHOTOVOLTAIC MODULES**
[54] **METHODE DE REPARATION POUR SCELLER L'ARRIERE DE MODULES PHOTOVOLTAIQUES**
[72] FISCHER, HORST, DE
[72] JOHN, PETER, DE
[71] FISCHER, HORST, DE
[71] GMEINER, JOSEF JOACHIM, DE
[22] 2022-09-30
[41] 2024-03-30

---

[21] **3,178,032**
[13] A1
[51] **Int.Cl. E01F 13/00 (2006.01) E01F 15/00 (2006.01) E01F 15/10 (2006.01)**
[25] EN
[54] **BARRIER FOR ROADWAY**
[54] **BARRIERE DE ROUTE**
[72] SEGUIN, MARC-ANDRE, CA
[72] BEAUCHAMP, FRANCIS, CA
[71] INVESTISSEMENTS QMB INC., CA
[22] 2022-09-30
[41] 2024-03-30

[21] **3,178,081**
[13] A1
[51] **Int.Cl. F16K 11/00 (2006.01) E03C 1/04 (2006.01)**
[25] EN
[54] **MIXING VALVE ADAPTER**
[54] **ADAPTATEUR DE ROBINET MELANGEUR**
[72] O'CONNER, TIM, US
[72] STAPP, SHAWN, US
[71] O'CONNER, TIM, US
[71] STAPP, SHAWN, US
[22] 2022-09-30
[41] 2024-03-30

[21] **3,178,092**
[13] A1
[51] **Int.Cl. G06V 20/60 (2022.01) G06V 10/74 (2022.01) G06V 40/10 (2022.01) A63F 1/06 (2006.01) B65G 1/04 (2006.01) B65H 43/00 (2006.01)**
[25] EN
[54] **TRADING CARD IDENTIFICATION AND INVENTORY MANAGEMENT SYSTEMS, AND RELATED METHODS OF USE**
[54] **IDENTIFICATION DE CARTE A COLLECTIONNER, SYSTEMES DE GESTION DES STOCKS ET METHODES D'UTILISATION CONNEXES**
[72] RYAN, AREN, CA
[72] MACMILLAN, JEREMY, CA
[71] RYMAC TECHNICAL SOLUTIONS INC., CA
[22] 2022-09-30
[41] 2024-03-30

[21] **3,178,135**
[13] A1
[51] **Int.Cl. B01D 57/02 (2006.01)**
[25] EN
[54] **SEPARATION APPARATUS FOR HIGH-LEVEL NUCLEAR WASTE**
[54] **APPAREIL DE SEPARATION POUR LES DECHETS A HAUT NIVEAU DE RADIOACTIVITE**
[72] DARDA, SHARIF ABU, CA
[72] GABER, HOSSAM, CA
[71] HANDA, JANAK H., CA
[71] GABER, HOSSAM, CA
[22] 2022-09-30
[41] 2024-03-30

[21] **3,178,243**
[13] A1
[51] **Int.Cl. C02F 5/08 (2006.01) C09K 8/528 (2006.01)**
[25] EN
[54] **COMPOSITION USEFUL IN SULFATE SCALE REMOVAL**
[54] **COMPOSITION SERVANT A L'ELIMINATION DE TARTRE DE SULFATE**
[72] ABDELFATAH, ELSAYED, CA
[72] WEISSENBERGER, MARKUS, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2022-09-30
[41] 2024-03-30

[21] **3,178,360**
[13] A1
[51] **Int.Cl. G06Q 20/08 (2012.01) G06Q 20/36 (2012.01)**
[25] EN
[54] **HIERARCHICAL PAYMENT STRUCTURES**
[54] **STRUCTURES DE PAIEMENT HIERARCHIQUES**
[72] STEWART, LOUISE, GB
[71] PROJECTPAY LTD, GB
[22] 2022-10-04
[41] 2024-03-29
[30] GB (2214314.3) 2022-09-29
[30] GB (2214431.5) 2022-09-30

[21] **3,179,112**
[13] A1
[51] **Int.Cl. G06N 20/20 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVING MACHINE LEARNING MODELS**
[54] **SYSTEMES ET METHODES POUR AMELIORER DES MODELES D'APPRENTISSAGE AUTOMATIQUE**
[72] WANDER, MATTHEW CARLTON FREDERICK, CA
[72] HEGLIN, HOLLY, CA
[72] PAN, MING JIAN, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-10-14
[41] 2024-03-29
[30] US (17/956,531) 2022-09-29

[21] **3,179,122**
[13] A1
[51] **Int.Cl. B44C 1/24 (2006.01) B42D 15/02 (2006.01) B44C 1/10 (2006.01) B44C 1/17 (2006.01)**
[25] EN
[54] **GLITTER ALTERNATIVE**
[54] **OPTION DE RECHANGE A LA POUDRE SCINTILLANTE**
[72] BENNETT, BARBARA A., US
[72] EISEL, RICKY D., US
[72] HAVERKAMP, LAURA A., US
[71] HALLMARK CARDS, INCORPORATED, US
[22] 2022-10-13
[41] 2024-03-30
[30] US (17/958056) 2022-09-30

[21] **3,180,284**
[13] A1
[51] **Int.Cl. A61N 1/40 (2006.01) A61B 5/01 (2006.01) A61N 1/04 (2006.01)**
[25] EN
[54] **TRANSDUCER ARRAY HAVING A TEMPERATURE SENSOR ISOLATION LAYER BETWEEN A TEMPERATURE SENSOR AND EXTERNAL ENVIRONMENT**
[54] **RESEAU DE TRANSDUCTEURS COMPRENANT UNE COUCHE D'ISOLATION DE CAPTEUR DE TEMPERATURE ENTRE UN CAPTEUR DE TEMPERATURE ET UN ENVIRONNEMENT EXTERNE**
[72] WASSERMAN, YORAM, IL
[71] NOVOCURE GMBH, CH
[22] 2022-10-27
[41] 2024-03-29
[30] US (63/377605) 2022-09-29

[21] **3,181,466**
[13] A1
[51] **Int.Cl. G06F 9/44 (2018.01) G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPLEMENTING MICRO-APPLICATION ENVIRONMENTS**
[54] **SYSTEME ET METHODE POUR METTRE EN OEUVRE DES ENVIRONNEMENTS DE MICRO-APPLICATION**
[72] SINGH, JAGJOT, CA
[72] ARULANANTHAN, MATHURANGAN, CA
[72] FALZON, MARK AMAR MEZHER, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-10-11
[41] 2024-03-26
[30] US (17/935,221) 2022-09-26

---

[21] **3,184,429**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/30 (2014.01) A63F 1/04 (2006.01) A63F 9/00 (2006.01) G07F 17/34 (2006.01)**
[25] EN
[54] **SPECIALIZED SLOT MACHINE FOR CONDUCTING A WAGERING GAME USING A CARD SYSTEM FOR REAL TIME OR LIVE ACTION EVENT CONTENT**
[54] **MACHINE A SOUS SPECIALISEE POUR REALISER UN JEU DE PARI AU MOYEN D'UN SYSTEME A CARTES POUR UN CONTENU D'EVENEMENT REEL OU EN TEMPS REEL**
[72] GIVANT, PHILIP PAUL, US
[71] GIVANT, PHILIP PAUL, US
[22] 2022-12-21
[41] 2024-03-29
[30] US (17/956,583) 2022-09-29

---

[21] **3,184,769**
[13] A1
[51] **Int.Cl. A47J 43/07 (2006.01) A47J 43/044 (2006.01) F16P 3/00 (2006.01)**
[25] EN
[54] **MICRO PUREE MACHINE WITH BOWL AND BLADE DETECTION**
[54] **MACHINE A MICROPUREE COMPRENANT UN MECANISME DE DETECTION DU BOL ET DE LA LAME**
[72] LYELL, NATHAN, US
[72] JAMES, JONATHAN, US
[71] SHARKNINJA OPERATING LLC, US
[22] 2022-12-29
[41] 2024-03-30
[30] US (17/956,917) 2022-09-30

---

[21] **3,185,384**
[13] A1
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 43/30 (2006.01)**
[25] EN
[54] **IN SITU STARTUP PROCESS WITH ELASTIC DEFORMATION OF THE RESERVOIR**
[54] **PROCEDE DE DEMARRAGE SUR PLACE COMPRENANT LA DEFORMATION ELASTIQUE DU RESERVOIR**
[72] ARIAS-BUITRAGO, JUAN, CA
[72] SMITH, JENNIFER, CA
[72] BOGATKOV, DMITRY, CA
[71] SUNCOR ENERGY INC., CA
[22] 2022-09-28
[41] 2024-03-28

---

[21] **3,185,393**
[13] A1
[51] **Int.Cl. B09C 1/00 (2006.01) C02F 11/00 (2006.01) C02F 11/12 (2019.01)**
[25] EN
[54] **HYBRID HYDRAULIC COKE CAPPING**
[54] **FERMETURE HYDRAULIQUE HYBRIDE D'ETANGS DE COKE**
[72] MURPHY, FERGUS DANIEL, CA
[72] HOLLANDER, ELCO, CA
[72] MEYERS, GREG, CA
[72] LEENDERTSE, NATHAN, CA
[72] SOHN, TANNER, CA
[72] SCHICK, LINDSEY, CA
[71] SUNCOR ENERGY INC., CA
[22] 2022-09-28
[41] 2024-03-28

---

[21] **3,185,786**
[13] A1
[51] **Int.Cl. F21V 31/00 (2006.01) F21S 4/10 (2016.01) F21V 3/02 (2006.01) F21V 17/16 (2006.01) F21V 19/00 (2006.01) F21V 23/02 (2006.01) F21V 23/06 (2006.01)**
[25] EN
[54] **WATER-PROOF DECORATIVE LAMP AND LAMP STRING**
[54] **LAMPE DECORATIVE ETANCHE A L'EAU ET CORDON DE LAMPE**
[72] LAM, SU IO, KH
[71] SEASON BRIGHT (CAMBODIA) ELECTRONIC LIGHTING CO., LTD., KH
[22] 2022-12-28
[41] 2024-03-29
[30] CN (202222604416.7) 2022-09-29

---

[21] **3,186,378**
[13] A1
[51] **Int.Cl. B65G 1/12 (2006.01) B65G 1/02 (2006.01) B65G 1/133 (2006.01)**
[25] EN
[54] **PLATFORM UNIT AND STORAGE SYSTEM INCLUDING THE SAME**
[54] **UNITE DE PLATEFORME ET SYSTEME DE STOCKAGE LA COMPRENANT**
[72] MAHRICHE, SAMI-AKRAM, CA
[71] MAHRICHE, SAMI-AKRAM, CA
[22] 2022-12-22
[41] 2024-03-30
[30] GB (2214330.9) 2022-09-30

---

[21] **3,187,157**
[13] A1
[51] **Int.Cl. B08B 15/00 (2006.01) B08B 15/02 (2006.01)**
[25] EN
[54] **A MOBILE DUST EXTRACTION DEVICE**
[54] **DISPOSITIF D~EXTRACTION DE POUSSIERE MOBILE**
[72] FANNING, ANDREW, AU
[71] FANCA TECHNOLOGIES PTY LTD, AU
[22] 2023-01-18
[41] 2024-03-28
[30] AU (AU 2022241529) 2022-09-28

[21] **3,187,418**
[13] A1
[51] **Int.Cl. A41D 13/00 (2006.01) A62B 99/00 (2009.01) B62J 27/20 (2020.01) A63B 29/00 (2006.01)**
[25] EN
[54] **PROTECTIVE DEVICE AND METHOD OF OPERATION OF THE PROTECTIVE DEVICE**
[54] **DISPOSITIF DE PROTECTION ET METHODE DE FONCTIONNEMENT**
[72] FELIKSIK, ADAM, PL
[71] COVAIR SP.ZO.O., PL
[22] 2023-01-18
[41] 2024-03-28
[30] EP (22461610.2) 2022-09-28

[21] **3,187,630**
[13] A1
[51] **Int.Cl. F16H 25/08 (2006.01) B66F 9/06 (2006.01) B66F 9/20 (2006.01) B66F 11/04 (2006.01)**
[25] EN
[54] **LINEAR ACTUATOR WITH CONTACT TYPE SAFETY NUT,AND AERIAL WORK PLATFORM**
[54] **ACTIONNEUR LINEAIRE A ECROU DE SECURITE DE TYPE CONTACT ET PLATEFORME DE TRAVAIL AERIEN**
[72] XU, SHUGEN, CN
[72] XU, ZHONG, CN
[71] ZHEJIANG DINGLI MACHINERY CO., LTD., CN
[22] 2023-01-18
[41] 2024-03-24
[30] CN (2022111685539) 2022-09-24

[21] **3,187,882**
[13] A1
[51] **Int.Cl. F16H 25/08 (2006.01) B66F 9/06 (2006.01) B66F 9/20 (2006.01) B66F 11/04 (2006.01)**
[25] EN
[54] **LINEAR ACTUATOR WITH CONTACT TYPE SAFETY NUT AND FAULT DETECTION METHOD THEREOF**
[54] **ACTIONNEUR LINEAIRE A ECROU DE SECURITE DE TYPE CONTACT ET METHODE CONNEXE DE DETECTION DES ANOMALIES**
[72] XU, ZHONG, CN
[72] XU, SHUGEN, CN
[71] ZHEJIANG DINGLI MACHINERY CO., LTD., CN
[22] 2023-01-25
[41] 2024-03-24
[30] CN (CN 2022111685628) 2022-09-24

[21] **3,187,886**
[13] A1
[51] **Int.Cl. B66F 17/00 (2006.01) B66F 11/04 (2006.01) B66F 13/00 (2006.01) F16C 7/06 (2006.01)**
[25] EN
[54] **SCISSORS LIFTING EQUIPMENT WITH HYDRAULIC BUFFER FOR MAINTENANCE AND CONTROL METHOD THEREOF**
[54] **EQUIPEMENT DE LEVAGE EN CISEAUX COMPRENANT UN AMORTISSEUR HYDRAULIQUE AUX FINS DE MAINTENANCE ET METHODE DE CONTROLE CONNEXE**
[72] XU, SHUGEN, CN
[72] XU, ZHONG, CN
[71] ZHEJIANG DINGLI MACHINERY CO., LTD., CN
[22] 2023-01-25
[41] 2024-03-24
[30] CN (CN 2022111685581) 2022-09-24

[21] **3,192,603**
[13] A1
[51] **Int.Cl. B62D 13/04 (2006.01) B60W 10/16 (2012.01) B60G 5/01 (2006.01) B60W 10/20 (2006.01) B62D 7/14 (2006.01)**
[25] EN
[54] **VEHICLE STEERING WHEELS SYSTEM**
[54] **SYSTEME DE VOLANTS POUR VEHICULE**
[72] NOEL, GERALD, CA
[72] NOEL, ALEXANDRE, CA
[71] GN TECHNOLOGIES INC., CA
[22] 2023-03-10
[41] 2024-03-30
[30] CA (3178011) 2022-09-30
[30] US (63319108) 2023-03-10

[21] **3,193,651**
[13] A1
[51] **Int.Cl. F16M 13/02 (2006.01) F21V 17/10 (2006.01) F21V 21/08 (2006.01)**
[25] EN
[54] **OUTDOOR STRUCTURES AND CLIPS FOR ATTACHING OBJECTS TO OUTDOOR STRUCTURES**
[54] **STRUCTURES EXTERIEURES ET PINCES POUR ATTACHER DES OBJETS A DES STRUCTURES EXTERIEURES**
[72] ALVERGUE, LUCA, CA
[72] MCINTOSH, JAYN, CA
[72] SIMLA, LISA, CA
[71] CANADIAN TIRE CORPORATION, LIMITED, CA
[22] 2023-03-20
[41] 2024-03-29
[30] US (63/411,515) 2022-09-29

[21] **3,194,852**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/82 (2018.01) A01H 1/04 (2006.01) A01H 1/08 (2006.01) A01H 4/00 (2006.01) A01H 5/08 (2018.01) A01H 5/10 (2018.01)**
[25] EN
[54] **TOMATO VARIETY NUN 09400 TOF**
[54] **TOMATE DE VARIETE NUN 09400 TOF**
[72] WANTEN, PASCAL, NL
[71] NUNHEMS B.V., NL
[22] 2023-04-03
[41] 2024-03-28
[30] US (63/410,828) 2022-09-28

[21] **3,196,109**
[13] A1
[51] **Int.Cl. E04G 5/14 (2006.01) E04F 11/18 (2006.01) E04H 17/00 (2006.01)**
[25] EN
[54] **FALL PROTECTION SYSTEM**
[54] **SYSTEME DE PROTECTION CONTRE LES CHUTES**
[72] MACKARVICH, CHARLES J., US
[72] ALCOBER, JUSTIN HIKARU, US
[71] TIE DOWN, INC., US
[22] 2023-04-14
[41] 2024-03-26
[30] US (17/953,235) 2022-09-26

[21] **3,198,950**
[13] A1
[51] **Int.Cl. A47C 4/54 (2006.01) A47C 3/16 (2006.01) A47C 4/02 (2006.01)**
[25] EN
[54] **DETACHABLE INFLATABLE SOFA WITH PLURALITY OF AIR CAVITIES**
[54] **SOFA GONFLABLE DETACHABLE A PLUSIEURS CAVITES D'AIR**
[72] LI, CHENG, CN
[71] SHANGHAI SUNSHINE DEVELOPMENT CO., LTD., CN
[22] 2023-05-04
[41] 2024-03-28
[30] CN (202211190802.4) 2022-09-28

[21] **3,201,092**
[13] A1
[25] EN
[54] **HYBRID AUDIO/VISUAL IMAGERY ENTERTAINMENT SYSTEM WITH LIVE AUDIO STREAM PLAYOUT AND SEPARATE LIVE OR PRERECORDED VISUAL IMAGERY STREAM PLAYOUT**
[54] **SYSTEME DE DIVERTISSEMENT D~IMAGERIE AUDIOVISUELLE HYBRIDE AVEC LECTURE DE DIFFUSION AUDIO EN DIRECT ET LECTURE SEPAREE DE DIFFUSION D~IMAGERIE VISUELLE EN DIRECT OU PREENREGISTREE**
[72] OKLEJAS, ROBERT A., US
[72] CEROVCEVIC, DRAGAN, US
[72] RADAKOVICH, ROY, US
[71] ESCAPES NETWORK LLC, US
[22] 2023-05-30
[41] 2024-03-26
[30] US (17/952,724) 2022-09-26

[21] **3,202,997**
[13] A1
[51] **Int.Cl. B03D 1/12 (2006.01) B01D 1/16 (2006.01)**
[25] EN
[54] **DOWNSTREAM DEBRIS CATCHER CONFIGURATIONS AND SYSTEMS FOR SEPARATING A SOLVENT FROM TAILINGS**
[54] **CONFIGURATIONS D'ATTRAPE-DEBRIS EN AVAL ET SYSTEMES DE SEPARATION D'UN SOLVANT DES RESIDUS**
[72] VAN DER MERWE, SHAWN, CA
[72] CHAN, DANIEL, CA
[72] STANNARD, TRACEY, CA
[72] GUPTA, SIDDHARTH, CA
[72] VAKIL, ALI, CA
[72] TANG, SHAOSHAN, CA
[71] FORT HILLS ENERGY L.P., CA
[22] 2023-06-13
[41] 2024-03-29
[30] CA (3.177.664) 2022-09-29

[21] **3,207,203**
[13] A1
[51] **Int.Cl. E04G 3/24 (2006.01) B66B 7/00 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES, AND METHODS FOR AN ELEVATOR PIT DECK DEVICE**
[54] **SYSTEMES, DISPOSITIF ET METHODES POUR UN DISPOSITIF DE PLATEFORME DE CUVETTE D'ASCENSEUR**
[72] BRAUER, CRAIG, CA
[72] DUGGAN, MARK, CA
[71] BRAUER, CRAIG, CA
[71] DUGGAN, MARK, CA
[22] 2023-07-21
[41] 2024-03-29

[21] **3,207,245**
[13] A1
[51] **Int.Cl. B05B 7/22 (2006.01)**
[25] EN
[54] **ATOMIZING DEVICE, ATOMIZING ASSEMBLY THEREOF, AND MANUFACTURING PROCESS OF ATOMIZING ASSEMBLY**
[54] **DISPOSITIF DE PULVERISATION, ASSEMBLAGE DE PULVERISATION CONNEXE ET PROCEDE DE FABRICATION DE L'ASSEMBLAGE DE PULVERISATION**
[72] CHEN, PING, CN
[71] SHENZHEN HUACHENGDA PRECISION INDUSTRY CO. LTD., CN
[22] 2023-07-21
[41] 2024-03-29
[30] CN (202211200888.4) 2022-09-29
[30] CN (202211200890.1) 2022-09-29
[30] CN (202211625542.9) 2022-12-16

[21] **3,207,351**
[13] A1
[25] EN
[54] **INSPECTION APPARATUS AND INSPECTION SYSTEM**
[54] **APPAREIL ET SYSTEME D~INSPECTION**
[72] YUMINAMOCHI, MITSUNORI, JP
[72] MATSUZAKI, AKIHIRO, JP
[72] SAITO, MASAOKI, JP
[72] KATAYAMA, HITOSHI, JP
[72] SATO, FUMIO, JP
[72] NOZAKI, DAI, JP
[71] KABUSHIKI KAISHA TOSHIBA, JP
[22] 2023-07-24
[41] 2024-03-30
[30] JP (2022-158625) 2022-09-30
[30] JP (2022-158633) 2022-09-30

[21] **3,207,507**
[13] A1
[51] **Int.Cl. A24F 40/44 (2020.01) A24F 40/10 (2020.01) A24F 40/46 (2020.01) A24F 40/70 (2020.01)**
[25] EN
[54] **ATOMIZING DEVICE, ATOMIZING ASSEMBLY, AND MANUFACTURING PROCESS OF ATOMIZING ASSEMBLY**
[54] **DISPOSITIF DE PULVERISATION, ASSEMBLAGE DE PULVERISATION ET PROCEDE DE FABRICATION DE L'ASSEMBLAGE DE PULVERISATION**
[72] CHEN, PING, CN
[71] SHENZHEN HUACHENGDA PRECISION INDUSTRY CO. LTD., CN
[22] 2023-07-21
[41] 2024-03-29
[30] CN (202211200888.4) 2022-09-29
[30] CN (202211200890.1) 2022-09-29
[30] CN (202211625864.3) 2022-12-16

---

[21] **3,208,161**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01) G06Q 30/0251 (2023.01) G06Q 30/0279 (2023.01) G06N 20/00 (2019.01) G06Q 40/10 (2023.01)**
[25] EN
[54] **CAUSE INDENTIFICATION USING DYNAMIC INFORMATION SOURCE(S)**
[54] **DETERMINATION DE CAUSE AU MOYEN DE SOURCES D'INFORMATION DYNAMIQUES**
[72] SOLH, CRISSY, US
[72] LONG, NEIL, US
[72] EDWARDS, SARAH, US
[72] NIAZI, GHAZAL, US
[72] YEE, ASHLEY, US
[72] JOYCE, ALANA, US
[71] BLOCK, INC., US
[22] 2023-08-01
[41] 2024-03-30
[30] US (17/958,184) 2022-09-30

---

[21] **3,208,344**
[13] A1
[51] **Int.Cl. H01M 50/244 (2021.01) A24F 40/40 (2020.01)**
[25] EN
[54] **BATTERY ASSEMBLY AND ELECTRONIC ATOMIZATION DEVICE**
[54] **ASSEMBLAGE DE BATTERIE ET DISPOSITIF DE PULVERISATION ELECTRONIQUE**
[72] ZOU, SHUPING, CN
[72] LI, GUANGHUI, CN
[71] SHENZHEN SMOORE TECHNOLOGY LIMITED, CN
[22] 2023-08-03
[41] 2024-03-30
[30] CN (202211213926.X) 2022-09-30

---

[21] **3,208,825**
[13] A1
[25] EN
[54] **FRAMEWORK FOR MACHINE GUIDANCE**
[54] **CADRE DE GUIDAGE DE MACHINE**
[72] EFTEKHARI, AMIR, US
[72] MEIKE, ROGER C., US
[71] INTUIT INC., US
[22] 2023-08-09
[41] 2024-03-30
[30] US (17/958,278) 2022-09-30

---

[21] **3,209,094**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) 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] **CUCUMBER VARIETY NUN 53063 CUP**
[54] **VARIETE DE CONCOMBRE NUN 53063 CUP**
[72] SUELMANN, JOS, NL
[71] NUNHEMS B.V., NL
[22] 2023-08-11
[41] 2024-03-30
[30] US (17/957.636) 2022-09-30

---

[21] **3,209,106**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) A01H 6/34 (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] **CUCUMBER VARIETY NUN 53062 CUP**
[54] **VARIETE DE CONCOMBRE NUN 53062 CUP**
[72] SUELMANN, JOS, NL
[71] NUNHEMS B.V., NL
[22] 2023-08-11
[41] 2024-03-30
[30] US (17/957,542) 2022-09-30

---

[21] **3,209,109**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO VARIETY NUN 09409 TOF**
[54] **TOMATE DE VARIETE NUN 09409 TOF**
[72] WANTEN, PASCAL, NL
[71] NUNHEMS B.V., NL
[22] 2023-08-11
[41] 2024-03-28
[30] US (63/410.828) 2022-09-28

---

[21] **3,209,505**
[13] A1
[51] **Int.Cl. F02C 7/28 (2006.01) F16J 15/3232 (2016.01) F16J 15/3284 (2016.01) F02F 11/00 (2006.01) F16J 15/447 (2006.01)**
[25] EN
[54] **SEAL ASSEMBLY FOR AIRCRAFT ENGINE**
[54] **ENSEMBLE D~ETANCHEITE POUR MOTEUR D~AERONEF**
[72] SIDOROVICH PARADISO, IVAN, CA
[72] MOTTAGHIAN, POUYA, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-08-09
[41] 2024-03-26
[30] US (17/953,026) 2022-09-26

[21] **3,209,580**
[13] A1
[51] **Int.Cl. F16K 15/02 (2006.01) F16K 15/04 (2006.01) F16K 17/00 (2006.01) F16K 17/04 (2006.01) F16K 21/08 (2006.01)**
[25] EN
[54] **SERVICEABLE BALL CHECK VALVE**
[54] **CLAPET A BILLE POSSIBLE D~ENTRETIEN**
[72] MASON, CHRISTOPHER W., US
[71] NIBCO INC., US
[22] 2023-08-17
[41] 2024-03-27
[30] US (17/953.629) 2022-09-27

---

[21] **3,209,651**
[13] A1
[51] **Int.Cl. A01D 34/82 (2006.01) A01D 34/66 (2006.01) A01D 75/00 (2006.01)**
[25] EN
[54] **ROTARY CUTTER-BAR WITH BLADE SENSOR**
[54] **BARRE DE COUPE ROTATIVE AVEC DETECTEUR DE LAME**
[72] ROTH, DARIN L., US
[72] GRAEVE, JOSHUA D., US
[71] DEERE & COMPANY, US
[22] 2023-08-15
[41] 2024-03-26
[30] US (17/935,171) 2022-09-26

---

[21] **3,209,767**
[13] A1
[51] **Int.Cl. B66F 9/24 (2006.01) B62D 5/00 (2006.01)**
[25] EN
[54] **SYNCHRONIZED STEERING CONTROL SYSTEMS FOR FORKLIFTS**
[54] **SYSTEMES DE COMMANDE DE DIRECTION SYNCHRONISES POUR DES CHARIOTS ELEVATEURS A FOURCHE**
[72] MAJOR, JOSEPH, US
[72] PARTRIDGE, KEVIN, US
[71] TOYOTA MATERIAL HANDLING, INC., US
[22] 2023-08-18
[41] 2024-03-28
[30] US (63/411072) 2022-09-28

---

[21] **3,209,818**
[13] A1
[51] **Int.Cl. H01M 10/63 (2014.01) H01M 10/617 (2014.01) H01M 50/569 (2021.01) H01M 10/44 (2006.01) H01M 10/48 (2006.01)**
[25] EN
[54] **BATTERY PACK, BATTERY THERMAL MANAGEMENT SYSTEM AND BATTERY THERMAL MANAGEMENT CONTROL METHOD**
[54] **BATTERIE D'ALIMENTATION, SYSTEME DE GESTION THERMIQUE DE BATTERIE ET METHODE DE CONTROLE DE GESTION THERMIQUE DE BATTERIE**
[72] LI, BAOAN, CN
[72] CHEN, LEI, CN
[72] YAN, AN, CN
[72] XIE, XUYAN, CN
[72] HUO, XIAOHUI, CN
[71] GREENWORKS (JIANGSU) CO., LTD, CN
[22] 2023-08-18
[41] 2024-03-29
[30] CN (202222592781.0) 2022-09-29
[30] CN (202211200399.9) 2022-09-29

---

[21] **3,209,843**
[13] A1
[25] EN
[54] **TRANSLATING SECTIONS OF AN ICING WIND TUNNEL TO EXPAND WATER DROPLET SIZE RANGE**
[54] **DEPLACEMENT DES SECTIONS D~UNE SOUFFLERIE DE GIVRAGE POUR ETENDRE LA PLAGE DE DIMENSIONS DES GOUTTELETTES D~EAU**
[72] FAHRNER, ALAN J., US
[71] GOODRICH CORPORATION, US
[22] 2023-08-21
[41] 2024-03-30
[30] US (17/958,078) 2022-09-30

---

[21] **3,210,063**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TOMATO VARIETY NUN 09416 TOF**
[54] **TOMATE DE VARIETE NUN 09416 TOF**
[72] WANTEN, PASCAL, NL
[71] NUNHEMS B.V., NL
[22] 2023-08-24
[41] 2024-03-28
[30] US (63/410.828) 2022-09-28

---

[21] **3,210,391**
[13] A1
[51] **Int.Cl. F16B 1/00 (2006.01) F16L 37/00 (2006.01)**
[25] EN
[54] **QUICK COUPLER**
[54] **RACCORD RAPIDE**
[72] SCHAUER, STEFAN, DE
[71] OILQUICK DEUTSCHLAND KG, DE
[22] 2023-08-24
[41] 2024-03-29
[30] DE (10 2022 125 112.8) 2022-09-29

[21] **3,210,399**
[13] A1
[51] **Int.Cl. G06Q 10/04 (2023.01) G06F 3/04847 (2022.01) G06N 3/0442 (2023.01) G06Q 10/0631 (2023.01) G06N 3/08 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR A MACHINE LEARNING ARCHITECTURE FOR RESOURCE ALLOCATION**
[54] **SYSTEME ET METHODE POUR UNE ARCHITECTURE D'APPRENTISSAGE AUTOMATIQUE POUR L'ATTRIBUTION DE RESSOURCES**
[72] MENG, LILI, CA
[72] SYLVAIN, TRISTAN JEAN CLAUDE, CA
[72] ABDI, AMIR HOSSEIN, CA
[72] OLIVEIRA, GABRIEL, CA
[72] RAKHMANGULOVA, YUNDUZ, CA
[72] YAN, YONGMIN, CA
[72] WILSON, ELLA, CA
[72] EVANS, ROBERT DAVID, CA
[72] IRANDOUST, SAGHAR, CA
[72] SRINIVASA, CHRISTOPHER COTE, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2023-08-28
[41] 2024-03-29
[30] US (63/411,416) 2022-09-29

[21] **3,210,484**
[13] A1
[51] **Int.Cl. H02K 7/116 (2006.01) H02K 11/21 (2016.01) H02K 11/30 (2016.01) F16H 57/02 (2012.01) H02P 6/00 (2016.01)**
[25] EN
[54] **ELECTRIC MOTOR SYSTEM**
[54] **SYSTEME DE MOTEUR ELECTRIQUE**
[72] PROUZET, BERTAND, FR
[72] ANTRAYGUE, CEDRIC, FR
[72] PALOUZIER, FLORENT, FR
[71] RATIER-FIGEAC SAS, FR
[22] 2023-08-29
[41] 2024-03-28
[30] EP (22306436.1) 2022-09-28

[21] **3,210,487**
[13] A1
[51] **Int.Cl. G05B 19/4099 (2006.01) G05B 19/19 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING A TOOL PATH FOR ENGRAVING ON VARIOUS SHAPED SURFACES**
[54] **METHODE POUR GENERER UNE TRAJECTOIRE D~OUTIL POUR GRAVER DES SURFACES DE FORMES VARIEES**
[72] ANDRIEU, BRUNO, FR
[72] BRELAUD, ERIC, FR
[71] RATIER-FIGEAC SAS, FR
[22] 2023-08-29
[41] 2024-03-26
[30] EP (22306416.3) 2022-09-26

[21] **3,210,545**
[13] A1
[51] **Int.Cl. E21B 43/26 (2006.01) B25B 27/06 (2006.01) B25B 27/28 (2006.01) F04B 53/16 (2006.01)**
[25] EN
[54] **JAM SLEEVE FOR QUICK CHANGE INTERRUPTED THREAD FASTENER**
[54] **MANCHON DE BLOCAGE POUR UNE ATTACHE A FILET INTERROMPU DE CHANGEMENT RAPIDE**
[72] AVEY, ADAM B., US
[71] GD ENERGY PRODUCTS, LLC, US
[22] 2023-08-30
[41] 2024-03-29
[30] US (17/956,075) 2022-09-29

[21] **3,210,699**
[13] A1
[51] **Int.Cl. A47J 37/06 (2006.01) A47J 36/00 (2006.01)**
[25] EN
[54] **APPAREIL DE CUISSON AVEC DOUBLE INTERFACE UTILISATEUR**
[54] **COOKING APPARATUS WITH DUAL USER INTERFACE**
[72] ROBIN, JEAN-PHILIPPE, FR
[71] SEB S.A., FR
[22] 2023-08-31
[41] 2024-03-30
[30] FR (FR2210019) 2022-09-30

[21] **3,210,877**
[13] A1
[51] **Int.Cl. C01B 3/50 (2006.01) C01B 3/02 (2006.01) C01B 3/32 (2006.01)**
[25] EN
[54] **PROCESS AND PLANT FOR PRODUCING HYDROGEN-RICH SYNTHESIS GAS STREAM FROM A CARBON-CONTAINING INPUT GAS STREAM**
[54] **PROCEDE ET INSTALLATION POUR PRODUIRE UN FLUX DE GAZ DE SYNTHESE RICHE EN HYDROGENE D~UN FLUX DE GAZ D~ENTREE CONTENANT DU CARBONE**
[72] SCHMIDT, SOPHIA, DE
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET EXPLOITATION DES PROCEDES, FR
[22] 2023-09-01
[41] 2024-03-26
[30] EP (22197678.0) 2022-09-26

[21] **3,210,912**
[13] A1
[51] **Int.Cl. B25J 5/00 (2006.01) B25J 9/00 (2006.01) B25J 13/00 (2006.01) B62D 57/00 (2006.01) B62D 63/00 (2006.01)**
[25] EN
[54] **ROBOTIC CRAWLER PLATFORM SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE PLATEFORME A CHENILLES ROBOTIQUE**
[72] HAYES, KIMBERLEY ANNE, US
[71] HAYES, KIMBERLEY ANNE, US
[22] 2023-09-01
[41] 2024-03-25
[30] US (63/409,806) 2022-09-25
[30] US (18/084,423) 2022-12-19

[21] **3,211,130**
[13] A1
[51] **Int.Cl. A21B 5/02 (2006.01) A47J 37/06 (2006.01) F24C 7/08 (2006.01)**
[25] FR
[54] **COOKING APPARATUS WITH ROTARY GRIP**
[54] **APAREIL DE CUISSON AVE POIGNEE DE PREHENSION ROTATIVE**
[72] ROBIN, JEAN-PHILLIPPE, FR
[71] SEB S.A., FR
[22] 2023-09-01
[41] 2024-03-30
[30] FR (FR2210018) 2022-09-30

[21] **3,211,174**
[13] A1
[51] **Int.Cl. A21D 13/47 (2017.01) A21D 13/00 (2017.01)**
[25] EN
[54] **GINGERBREAD HOUSE CONSTRUCTION KIT**
[54] **ENSEMBLE DE FABRICATION DE MAISON EN PAIN D~EPICES**
[72] WEPPNER, MARK H., US
[71] WEPPNER, MARK H., US
[22] 2023-09-06
[41] 2024-03-27
[30] US (17/935,761) 2022-09-27

---

[21] **3,211,214**
[13] A1
[51] **Int.Cl. B60L 5/18 (2006.01) B60L 3/12 (2006.01)**
[25] EN
[54] **VEHICLE OPERATING METHOD AND SYSTEM**
[54] **METHODE ET SYSTEME D'EXPLOITATION DE VEHICULE**
[72] SOBIERAJSKI, JENNIFER, US
[72] BROWN, TIMOTHY WARREN, US
[72] GHOFULPO, JAMES, US
[72] WOLFF, JEFFREY JOHN, US
[72] KUMAR, AJITH KUTTANNAIR, US
[71] TRANSPORTATION IP HOLDINGS, LLC, US
[22] 2023-09-06
[41] 2024-03-30
[30] US (63/412,097) 2022-09-30
[30] US (18/458,508) 2023-08-30

---

[21] **3,211,251**
[13] A1
[51] **Int.Cl. B41F 5/24 (2006.01) B41F 13/18 (2006.01) B41F 23/04 (2006.01)**
[25] EN
[54] **PRINTING SYSTEM**
[54] **SYSTEME D'IMPRESSION**
[72] BICEGO, ALESSANDRO, IT
[71] UTECO CONVERTING S.P.A., IT
[22] 2023-09-06
[41] 2024-03-28
[30] IT (102022000019905) 2022-09-28

---

[21] **3,211,252**
[13] A1
[51] **Int.Cl. C10L 1/224 (2006.01) C10L 1/06 (2006.01) C10L 10/04 (2006.01)**
[25] EN
[54] **GASOLINE ADDITIVE COMPOSITION FOR IMPROVED ENGINE PERFORMANCE**
[54] **COMPOSITION D'ADDITIF D'ESSENCE POUR UN RENDEMENT DE MOTEUR AMELIORE**
[72] BRENNAN, TIM, US
[72] GALANTE-FOX, JULIENNE, US
[72] WANG, JANICE JIANZHAO, US
[71] AFTON CHEMICAL CORPORATION, US
[22] 2023-09-06
[41] 2024-03-30
[30] US (17/936,987) 2022-09-30
[30] US (18/361,286) 2023-07-28

---

[21] **3,212,648**
[13] A1
[25] EN
[54] **DRUM WITH A TUNING MECHANISM**
[54] **TAMBOUR COMPRENANT UN MECANISME D~ACCORD**
[72] HANCOX, ELWYN J., CA
[71] HANCOX, ELWYN J., CA
[22] 2023-09-15
[41] 2024-03-27
[30] US (63/410,271) 2022-09-27

---

[21] **3,212,702**
[13] A1
[51] **Int.Cl. A61M 5/165 (2006.01) A61M 5/14 (2006.01) A61M 5/38 (2006.01)**
[25] EN
[54] **FILTER FOR INFUSION MEDICAL LINES**
[54] **FILTRE POUR LIGNES DE PERFUSION MEDICALE**
[72] GUALA, GIANNI, IT
[71] INDUSTRIE BORLA S.P.A., IT
[22] 2023-09-15
[41] 2024-03-28
[30] IT (102022000019893) 2022-09-28

---

[21] **3,212,890**
[13] A1
[51] **Int.Cl. A61B 5/20 (2006.01)**
[25] EN
[54] **UROFLOWMETRY SYSTEM**
[54] **SYSTEME DE DEBITMETRE URINAIRE**
[72] CARRILLO, BRIAN, CA
[72] FARCAS, MONICA, CA
[72] LI, TIAN GE, CA
[71] CREATIVE MEDICAL SOLUTIONS INC., CA
[22] 2023-09-18
[41] 2024-03-26
[30] US (63409918) 2022-09-26

---

[21] **3,212,904**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR SPECIFIC FOR FOLATE RECEPTOR 1**
[54] **RECEPTEUR D~ANTIGENE CHIMERE SPECIFIQUE AU RECEPTEUR DE FOLATE 1**
[72] HERBEL, CHRISTOPH, DE
[72] DAIGRE, JULIE, DE
[71] MILTENYI BIOTEC B.V. & CO. KG, DE
[22] 2023-09-18
[41] 2024-03-26
[30] EP (EP22197771.3) 2022-09-26

---

[21] **3,212,993**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01) F04B 47/00 (2006.01)**
[25] EN
[54] **MULTI-PART SEALING ASSEMBLY**
[54] **ENSEMBLE D~ETANCHEITE A PIECES MULTIPLES**
[72] KACHKOVSKIY, VADIM, US
[72] KAY, KONNER CASEY, US
[72] AVEY, ADAM BRADLEY, US
[71] GD ENERGY PRODUCTS, LLC, US
[22] 2023-09-19
[41] 2024-03-27
[30] US (17/954,040) 2022-09-27

[21] **3,213,010**
[13] A1
[51] **Int.Cl. G06Q 40/03 (2023.01) G06Q 20/22 (2012.01) G06Q 30/0601 (2023.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MAPPING OF PLANNED PURCHASES WITH PRE-APPROVED FINANCING TERMS TO FINANCIAL TRANSACTIONS**
[54] **METHODE ET APPAREIL POUR METTRE EN CORRESPONDANCE DES ACHATS PREVUS A PERIODES DE FINANCEMENT PREAPPROUVEES AVEC DES TRANSACTIONS FINANCIERES**
[72] SELLICK, LAURIE, US
[72] MILLER, ALEXANDRA LANG, US
[72] LOVELY, NED JACKSON, US
[72] MAHON, ANDREW, US
[72] SCHLESINGER, GARRETT, US
[72] QIAN, JOSHUA, US
[71] AFFIRM, INC., US
[22] 2023-09-19
[41] 2024-03-26
[30] US (17/952,831) 2022-09-26

[21] **3,213,019**
[13] A1
[51] **Int.Cl. B23K 31/12 (2006.01) B23K 37/00 (2006.01)**
[25] EN
[54] **WELD TRAINING SYSTEMS WITH WELDING TECHNIQUE MONITORING**
[54] **SYSTEMES D'ENTRAINEMENT AU SOUDAGE COMPRENANT LA SURVEILLANCE DES TECHNIQUES DE SOUDAGE**
[72] BECKER, WILLIAM JOSHUA, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2023-09-19
[41] 2024-03-30
[30] US (63/412,066) 2022-09-30
[30] US (18/239,953) 2023-08-30

[21] **3,213,168**
[13] A1
[51] **Int.Cl. C08L 75/06 (2006.01) C08J 9/12 (2006.01) C08K 5/10 (2006.01) C08K 5/11 (2006.01) C08K 5/17 (2006.01) C08L 97/00 (2006.01)**
[25] EN
[54] **POLYURETHANE ELASTOMER COMPOSITION COMPRISING LIGNIN**
[54] **COMPOSITION ELASTOMERE DE POLYURETHANNE COMPRENANT DE LA LIGNINE**
[72] ROBINSON, JASON JAMES, CA
[72] CARAFA, RACHELE NICOLE, CA
[72] LI, JINLEI, CA
[72] SACRIPANTE, GUERINO G., CA
[71] EVOCO LIMITED, CA
[22] 2023-09-20
[41] 2024-03-30
[30] US (17/958,266) 2022-09-30

[21] **3,213,490**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06F 17/00 (2019.01) G16H 10/00 (2018.01) G06Q 40/00 (2023.01)**
[25] EN
[54] **MULTI-EVENT TIME-SERIES ENCODING**
[54] **CODAGE EN SERIE CHRONOLOGIQUE D'EVENEMENTS MULTIPLES**
[72] ZUBERI, SABA, CA
[72] VOLKOVS, MAKSIMS, CA
[72] POKHREL, ASLESHA, CA
[72] LABACH, ALEXANDER JACOB, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2023-09-21
[41] 2024-03-30
[30] US (63/411,932) 2022-09-30

[21] **3,213,524**
[13] A1
[51] **Int.Cl. G06F 16/17 (2019.01) G06F 16/11 (2019.01) G06F 11/00 (2006.01)**
[25] EN
[54] **COMPUTER SYTEM AND METHOD FOR EVALUATING INTEGRITY AND PARSING OF A FILE SYSTEM AND PARSING IMPLEMENTATION**
[54] **SYSTEME INFORMATIQUE ET METHODE POUR EVALUER L~INTEGRITE ET ANALYSER UN SYSTEME DE FICHIERS, ET MISE EN OEUVRE D~ANALYSE**
[72] SALIBA, JAD JOHN, CA
[72] SCHROERING, JAMES DAVID, JR, CA
[71] MAGNET FORENSICS INC., CA
[22] 2023-09-21
[41] 2024-03-27
[30] US (63/410,472) 2022-09-27

[21] **3,213,597**
[13] A1
[51] **Int.Cl. G06Q 10/0631 (2023.01) G06Q 10/0639 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR IDLE WORKER IDENTIFICATION AND MANAGEMENT**
[54] **METHODES ET SYSTEMES POUR L'IDENTIFICATION ET LA GESTION DE TRAVAILLEURS INOCCUPES**
[72] KHAN, KALIMULLA, US
[72] LINDSEY, WADE, US
[72] MILLER, MICHAEL, US
[72] JAYATHIRTHA, SRIHARI, US
[72] PILLUTLA, KRISHNA, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2023-09-21
[41] 2024-03-29
[30] US (18/178435) 2023-03-03
[30] US (63/377545) 2022-09-29

[21] **3,213,602**
[13] A1
[51] **Int.Cl. G06Q 10/0639 (2023.01) G06F 16/25 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DATA CONNECTOR FOR EXTERNAL LABOR MANAGEMENT SYSTEMS**
[54] **SYSTEME ET METHODE POUR UN CONNECTEUR DE DONNEES POUR DES SYSTEMES DE GESTION DE MAIN-D~OEUVRE EXTERNE**
[72] KHAN, KALIMULLA, US
[72] JAYATHIRTHA, SRIHARI, US
[72] LINDSEY, WADE, US
[72] WIQUAR, AFZAL HUSSAINI, US
[72] KOLLA, VENKATA PRADEEP, US
[72] PILLUTLA, KRISHNA, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2023-09-21
[41] 2024-03-28
[30] US (17/936028) 2022-09-28

---

[21] **3,213,608**
[13] A1
[51] **Int.Cl. G06Q 10/0631 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MANAGEMENT OF EVENTS AND DISRUPTIONS**
[54] **METHODES ET SYSTEMES POUR LA GESTION D'EVENEMENTS ET DE PERTURBATIONS**
[72] KHAN, KALIMULLA, US
[72] JAYATHIRTHA, SRIHARI, US
[72] LINDSEY, WADE, US
[72] RYSKO, GARRETT, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2023-09-21
[41] 2024-03-29
[30] US (18/178449) 2023-03-03
[30] US (63/377600) 2022-09-29

---

[21] **3,213,637**
[13] A1
[51] **Int.Cl. H04W 4/80 (2018.01) H04W 84/18 (2009.01) H04W 12/50 (2021.01)**
[25] EN
[54] **INITIATING COMMUNICATION IN A PERSONAL AREA NETWORK**
[54] **AMORCAGE D~UNE COMMUNICATION DANS UN RESEAU PERSONNEL**
[72] HAMLIN, ROBERT W., US
[72] GROSS, PHILIP S., US
[72] KO, CHE CHUNG, US
[71] ABL IP HOLDING, LLC, US
[22] 2023-09-21
[41] 2024-03-30
[30] US (17/936,898) 2022-09-30

---

[21] **3,213,645**
[13] A1
[51] **Int.Cl. C25B 15/023 (2021.01) C25B 9/60 (2021.01) C25B 1/04 (2021.01) C25B 15/08 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING AN ELECTROLYSIS SYSTEM AND ELECTROLYSIS SYSTEM**
[54] **METHODE POUR EXPLOITER UN SYSTEME D'ELECTROLYSE ET SYSTEME D'ELECTROLYSE**
[72] WOLF, ANDREAS, DE
[72] WELLENHOFER, ANTON, DE
[72] DILLIG, MARIUS, DE
[72] MULLER-THORWART, OLE, DE
[71] LINDE GMBH, DE
[71] BIRK, ROBERT, DE
[22] 2023-09-21
[41] 2024-03-28
[30] EP (22020462.2) 2022-09-28

---

[21] **3,213,705**
[13] A1
[51] **Int.Cl. H01M 50/244 (2021.01) H01M 50/242 (2021.01) H01M 50/262 (2021.01) H01M 50/289 (2021.01)**
[25] EN
[54] **BATTERY PACK ASSEMBLY**
[54] **ASSEMBLAGE DE BLOC-BATTERIE**
[72] TISCHER, ERIC, US
[72] HOLMES, SCOTT, CA
[72] LOCKWOOD, THOMAS, US
[71] OASIS AEROSPACE INC., CA
[22] 2023-09-22
[41] 2024-03-26
[30] US (63/409,966) 2022-09-26

---

[21] **3,213,825**
[13] A1
[51] **Int.Cl. C25B 15/08 (2006.01) C25B 9/23 (2021.01) C25B 9/60 (2021.01) C25B 9/77 (2021.01) C25B 1/04 (2021.01)**
[25] EN
[54] **METHOD AND PLANT FOR PRODUCING ONE OR MORE ELECTROLYSIS PRODUCTS**
[54] **METHODE ET INSTALLATION POUR LA PRODUCTION D'UN OU PLUSIEURS PRODUITS D'ELECTROLYSE**
[72] WOLF, ANDREAS, DE
[72] WELLENHOFER, ANTON, DE
[72] FRUHMANN, CHRISTIAN, DE
[72] LAUCHNER, DANIELA, DE
[72] DILLIG, MARIUS, DE
[72] CHALAKOVA, MARIYANA, DE
[72] MULLER-THORWART, OLE, DE
[72] BIRK, ROBERT, DE
[72] HERZOG, ROBERT, DE
[71] LINDE GMBH, DE
[22] 2023-09-22
[41] 2024-03-29
[30] EP (22020472.1) 2022-09-29

---

[21] **3,213,833**
[13] A1
[51] **Int.Cl. A41D 13/015 (2006.01) A41D 13/05 (2006.01)**
[25] EN
[54] **LIMB PROTECTION DEVICE, IN PARTICULAR SHIN GUARD**
[54] **DISPOSITIF DE PROTECTION DE MEMBRE DU CORPS, EN PARTICULIER UN PROTEGE-TIBIA**
[72] COFFINARDI, MARCO, IT
[72] COFFINARDI, ALESSANDRO, IT
[72] DELPANNO, PIERO, IT
[72] TESTA, MAURO, IT
[72] NEMBRINI, ROBERTO, IT
[71] COFFINARDI & DELPANNO INDUSTRIES SRL, IT
[22] 2023-09-22
[41] 2024-03-26
[30] IT (102022000019710) 2022-09-26

[21] **3,213,905**
[13] A1
[51] **Int.Cl. H01B 7/14 (2006.01) H01B 3/42 (2006.01) H01B 9/00 (2006.01)**
[25] EN
[54] **SUBMARINE POWER CABLE WITH SLIP ADDITIVE**
[54] **CABLE D'ALIMENTATION SOUS-MARIN COMPRENANT UN AGENT GLISSANT**
[72] TORVALDSSON, HENRIK, SE
[72] TYRBERG, ANDREAS, SE
[72] JOHANSSON, TOMMY, SE
[72] TJAHJANTO, DENNY, SE
[71] NKT HV CABLES AB, SE
[22] 2023-09-26
[41] 2024-03-30
[30] EP (22199220.9) 2022-09-30

---

[21] **3,213,911**
[13] A1
[51] **Int.Cl. E04D 11/00 (2006.01)**
[25] EN
[54] **SELF-HEALING IMPACT RESISTANT ROOFING MATERIALS AND METHODS OF MAKING THEREOF**
[54] **MATERIAUX DE COUVERTURE RESISTANTS AUX IMPACTS ET AUTOCICATRISANTS ET METHODES DE FABRICATION**
[72] MICHAEL, MATTHEW, US
[71] BMIC LLC, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/409,870) 2022-09-26

---

[21] **3,213,913**
[13] A1
[51] **Int.Cl. F01D 7/00 (2006.01) F01D 15/10 (2006.01)**
[25] FR
[54] **METHOD AND DEVICE FOR CONTROLLING A TURBINE, COMPUTER PROGRAM**
[54] **PROCEDE ET DISPOSITIF DE REGLAGE D'UNE TURBINE, PROGRAMME D'ORDINATEUR**
[72] CAVALIER, JULIEN, FR
[71] ELECTRICITE DE FRANCE, FR
[22] 2023-09-25
[41] 2024-03-30
[30] FR (22/10040) 2022-09-30

---

[21] **3,213,951**
[13] A1
[51] **Int.Cl. E04B 2/34 (2006.01) E04B 2/38 (2006.01)**
[25] EN
[54] **MODULAR POST-TENSIONED SHEAR RESISTING SYSTEM AND METHOD OF INSTALLATION**
[54] **SYSTEME DE RESISTANCE AU CISAILLEMENT POST-TENSIONNEMENT MODULAIRE**
[72] HANSEN BOGH, BRIAN, US
[71] VERCO DECKING, INC., US
[22] 2023-09-26
[41] 2024-03-29
[30] US (18371854) 2023-09-22
[30] US (63411159) 2022-09-29

---

[21] **3,213,976**
[13] A1
[51] **Int.Cl. B23K 31/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CLOSING A RECEPTACLE**
[54] **METHODE ET SYSTEME POUR FERMER UN RECEPTACLE**
[72] CHENG, PAUL PO, CA
[71] CHENG, PAUL PO, CA
[22] 2023-09-25
[41] 2024-03-28
[30] US (63/377,371) 2022-09-28
[30] US (63/498,291) 2023-04-26

---

[21] **3,213,981**
[13] A1
[51] **Int.Cl. B65D 41/32 (2006.01) B65D 41/46 (2006.01) B65D 43/16 (2006.01)**
[25] EN
[54] **CAPPING ASSEMBLY FOR RECEPTACLES**
[54] **ASSEMBLAGE DE CAPUCHON POUR RECEPTACLES**
[72] BERROA GARCIA, JAVIER, ES
[71] BETAPACK, S.A.U., ES
[22] 2023-09-25
[41] 2024-03-26
[30] ES (U202231563) 2022-09-26

---

[21] **3,213,991**
[13] A1
[51] **Int.Cl. B65D 1/02 (2006.01)**
[25] EN
[54] **NECK FOR GLANDS OF LIQUID CONTAINERS**
[54] **COL DE BOITE A GARNITURE DE CONTENANTS A LIQUIDE**
[72] BERROA GARCIA, JAVIER, ES
[71] BETAPACK, S.A.U., ES
[22] 2023-09-25
[41] 2024-03-26
[30] ES (U202231565) 2022-09-26

---

[21] **3,213,996**
[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01)**
[25] EN
[54] **CORNEAL STORAGE COMPOSITIONS**
[54] **COMPOSITIONS DE STOCKAGE CORNEEN**
[72] KANNAN, VELUCHAMY VENKATESA, IN
[72] KARPAGAM, ANNAMALAI, IN
[72] PRAJNA, NAMPERUMALSAMY VENKATESH, IN
[71] AUROLAB TRUST, IN
[22] 2023-09-25
[41] 2024-03-26
[30] US (63/409,889) 2022-09-26

---

[21] **3,213,998**
[13] A1
[51] **Int.Cl. B42D 25/23 (2014.01) B42D 25/30 (2014.01) G02B 5/18 (2006.01)**
[25] EN
[54] **EMBOSSED FILM ASSEMBLY HAVING PASTEL HOLOGRAPHIC SECURITY FEATURES**
[54] **ASSEMBLAGE DE FILM BOSSELE COMPRENANT DES CARACTERISTIQUES DE SECURITE HOLOGRAPHIQUES PASTEL**
[72] DESCHNER, MATTHEW JOHN, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2023-09-25
[41] 2024-03-28
[30] US (17/954,488) 2022-09-28

[21] **3,214,054**
[13] A1
[51] **Int.Cl. G06F 1/20 (2006.01) H01L 23/44 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **MAXIMIZING SERVER DENSITY IN A TWO-PHASE IMMERSION COOLING SYSTEM FOR A DATA CENTER**
[54] **MAXIMISATION DE LA DENSITE DE SERVEUR DANS UN SYSTEME DE REFROIDISSEMENT PAR IMMERSION BIPHASE POUR UN CENTRE DE DONNEES**
[72] RICHARD, TODD, US
[71] QUANTA ASSOCIATES, L.P., US
[22] 2023-09-25
[41] 2024-03-26
[30] US (63/377,110) 2022-09-26

[21] **3,214,059**
[13] A1
[51] **Int.Cl. G07C 9/10 (2020.01) G07C 9/20 (2020.01) G06V 40/10 (2022.01) E06B 11/00 (2006.01) G06K 7/10 (2006.01)**
[25] EN
[54] **GATE ARRAY, IN PARTICULAR FOR A PASSENGER TRANSPORT SYSTEM**
[54] **RESEAU DE PORTES, EN PARTICULIER POUR UN SYSTEME DE TRANSPORT DE PASSAGERS**
[72] VON SYDOW, THORSTEN, DE
[71] SCHEIDT & BACHMANN GMBH, DE
[22] 2023-09-25
[41] 2024-03-27
[30] DE (10 2022 124 736.8) 2022-09-27

[21] **3,214,071**
[13] A1
[51] **Int.Cl. A61N 1/362 (2006.01) A61B 5/318 (2021.01) A61N 1/365 (2006.01)**
[25] EN
[54] **SELECTIVELY DISPLAYING FILTERED PHYSIOLOGICAL PARAMETERS**
[54] **AFFICHAGE SELECTIF DE PARAMETRES PHYSIOLOGIQUES FILTRES**
[72] DINH, DOAN HUU, US
[72] TAYLOR, TYSON G., US
[71] STRYKER CORPORATION, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/410,112) 2022-09-26

[21] **3,214,075**
[13] A1
[51] **Int.Cl. A61N 1/362 (2006.01) A61B 5/318 (2021.01) A61N 1/365 (2006.01)**
[25] EN
[54] **SELECIVELY ENABLING FILTERING FOR PHYSIOLOGICAL PARAMETERS**
[54] **ACTIVATION SELECTIVE DU FILTRAGE DE PARAMETRES PHYSIOLOGIQUES**
[72] DINH, DOAN HUU, US
[72] TAYLOR, TYSON G., US
[71] STRYKER CORPORATION, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/410,148) 2022-09-26

[21] **3,214,079**
[13] A1
[51] **Int.Cl. F25B 30/02 (2006.01) F04B 39/06 (2006.01) F25B 1/00 (2006.01)**
[25] EN
[54] **SIMULTANEOUS HYBRID HEATING SYSTEM**
[54] **SYSTEME DE CHAUFFAGE HYBRIDE SIMULTANE**
[72] SHULVER, DAVID, CA
[72] HERING, THOMAS, CA
[72] ADDO-BINNEY, BISMARK, CA
[71] WOLF STEEL LTD., CA
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/409,979) 2022-09-26

[21] **3,214,083**
[13] A1
[51] **Int.Cl. F24F 11/70 (2018.01) F24F 11/00 (2018.01)**
[25] EN
[54] **VENTILATION SYSTEM WITH AUTOMATIC FLOW BALANCING DERIVED FROM A NEURAL_NETWORK AND METHODS OF USE**
[54] **SYSTEME DE VENTILATION COMPRENANT UN EQUILIBRAGE DE DEBIT AUTOMATIQUE DERIVE D~UN RESEAU NEURONAL ET METHODES D~UTILISATION**
[72] BLANCHARD, SIMON, US
[71] BROAN-NUTONE LLC, US
[22] 2023-09-26
[41] 2024-03-27
[30] US (63/410,283) 2022-09-27

[21] **3,214,105**
[13] A1
[51] **Int.Cl. B64C 23/06 (2006.01) B64C 1/26 (2006.01) B64C 1/38 (2006.01) B64C 3/14 (2006.01) B64C 3/36 (2006.01)**
[25] FR
[54] **PORTION OF AIRCRAFT WITH REDUCED DRAG**
[54] **PORTION D'AERONEF A TRAINEE REDUITE**
[72] BERNARD, XAVIER, FR
[72] JOHAN, ZDENEK, FR
[72] MERLET, AURELIEN, FR
[71] DASSAULT AVIATION, FR
[22] 2023-09-26
[41] 2024-03-29
[30] FR (FR 2209883) 2022-09-29

[21] **3,214,129**
[13] A1
[25] EN
[54] **AUTOMATED PROPERTY ACCESS CONTROL INVOLVING INTER-DEVICE ELECTRONIC COMMUNICATIONS BETWEEN COMPUTING DEVICES**
[54] **CONTROLE D~ACCES DE PROPRIETE AUTOMATISE COMPRENANT DES COMMUNICATIONS ELECTRONIQUES ENTRE DES DISPOSITIFS INFORMATIQUES**
[72] BHATNAGAR, ANURAG, US
[72] EL HASSAN, HIBA, US
[72] TOBIN, MATTHEW, US
[71] MFTB HOLDCO, INC., US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/410,210) 2022-09-26

[21] **3,214,134**
[13] A1
[51] **Int.Cl. C03B 18/02 (2006.01) C03C 3/091 (2006.01) C03C 4/00 (2006.01) C03B 5/16 (2006.01) C03B 21/00 (2006.01)**
[25] EN
[54] **GLASS PANE WITH LOW OPTICAL DEFECTS, IN PARTICULAR LOW NEAR-SURFACE REFRACTIONS, PROCESS FOR PRODUCTION THEREOF AND USE THEREOF**
[54] **CARREAU DE VITRE A PEU DE DEFAUTS OPTIQUES, EN PARTICULIER PEU DE REFRACTIONS DE FAIBLE PROFONDEUR, PROCEDE DE FABRICATION ET UTILISATION CONNEXE**
[72] BRANDT-SLOWIK, JULIANE, DE
[72] SCHMIADY, THOMAS, DE
[72] EBERL, STEFAN, DE
[72] SPRENGER, ANDREAS, DE
[72] VOGL, ARMIN, DE
[72] MEISTER, MICHAEL, DE
[72] SCHRODER, TOMMY, DE
[72] REINL, MICHAEL, DE
[71] SCHOTT TECHNICAL GLASS SOLUTIONS GMBH, DE
[22] 2023-09-26
[41] 2024-03-28
[30] DE (10 2022 125 049.0) 2022-09-28
[30] DE (10 2022 129 719.5) 2022-11-10

[21] **3,214,151**
[13] A1
[51] **Int.Cl. B65H 75/34 (2006.01) B65H 75/40 (2006.01) B65H 75/48 (2006.01)**
[25] EN
[54] **CORD REEL**
[54] **DEVIDOIR DE CORDON**
[72] FORSTER, KENNETH, US
[71] FORSTER, KENNETH, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/409,973) 2022-09-26

[21] **3,214,154**
[13] A1
[51] **Int.Cl. B65H 75/02 (2006.01) B60R 11/00 (2006.01) H02G 11/02 (2006.01)**
[25] EN
[54] **CORD REEL HOLDER**
[54] **SUPPORT A DEVIDOIR DE CORDON**
[72] FORSTER, KENNETH, US
[71] FORSTER, KENNETH, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/409,973) 2022-09-26

[21] **3,214,156**
[13] A1
[51] **Int.Cl. G06Q 10/1093 (2023.01) G06Q 50/16 (2024.01)**
[25] EN
[54] **AUTOMATED PROPERTY ACCESS CONTROL INVOLVING SEQUENTIAL CALL PROMPT INTERACTIONS USING MULTIPLE COMPUTING DEVICES**
[54] **CONTROLE D~ACCES DE PROPRIETE AUTOMATISE COMPRENANT DES INTERACTIONS DE SOLLICITATIONS D~APPEL SEQUENTIELLES AU MOYEN DE MULTIPLES DISPOSITIFS INFORMATIQUES**
[72] BHATNAGAR, ANURAG, US
[72] EL HASSAN, HIBA, US
[72] TOBIN, MATTHEW, US
[71] MFTB HOLDCO, INC., US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/410,219) 2022-09-26

[21] **3,214,165**
[13] A1
[25] EN
[54] **AUTOMATED PROPERTY ACCESS CONTROL AND COORDINATION USING MULTIPLE COMPUTING DEVICES IN MULTIPLE LOCATIONS**
[54] **CONTROLE D~ACCES DE PROPRIETE AUTOMATISE ET COORDINATION AU MOYEN DE MULTIPLES DISPOSITIFS INFORMATIQUES A DE MULTIPLES ENDROITS**
[72] CONINGSBY, ERIN ELIZABETH, US
[71] MFTB HOLDCO. INC., US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/410,214) 2022-09-26

[21] **3,214,167**
[13] A1
[25] EN
[54] **METHODS, SYSTEMS, AND APPARATUSES FOR IMPROVED TRANSMISSION OF CONTENT**
[54] **METHODES, SYSTEMES ET APPAREILS POUR LA TRANSMISSION DE CONTENU AMELIOREE**
[72] KIPP, NEILL, US
[72] TAFT, BRYAN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-26
[41] 2024-03-29
[30] US (17/956,248) 2022-09-29

[21] **3,214,177**
[13] A1
[51] **Int.Cl. E04F 10/00 (2006.01) E06B 9/24 (2006.01) G05D 3/00 (2006.01) G05D 13/62 (2006.01) H02M 3/02 (2006.01) H02P 7/00 (2016.01)**
[25] EN
[54] **MOTORIZED WINDOW COVERING SYSTEM AND METHOD**
[54] **SYSTEME DE COUVRE-FENETRE MOTORISE ET METHODE**
[72] CHILDRESS, CLINT, US
[71] DRAPER, INC., US
[22] 2023-09-26
[41] 2024-03-27
[30] US (63/410,476) 2022-09-27
[30] US (63/526,401) 2023-07-12

[21] **3,214,291**
[13] A1
[25] EN
[54] **PROPELLER JIG**
[54] **TURLUTTE A HELICE**
[72] WIEBE, AARON, CA
[72] PERIC, ALEX, US
[71] WIEBE, AARON, CA
[71] PERIC, ALEX, US
[22] 2023-09-27
[41] 2024-03-27
[30] US (63/377,258) 2022-09-27

---

[21] **3,214,331**
[13] A1
[25] EN
[54] **CLOTHING WITH INTERGRATED DEVICE SUPPORT PLATFORM**
[54] **VETEMENT COMPRENANT UNE PLATEFORME DE SUPPORT DE DISPOSITIF INTEGREE**
[72] PANOSIAN, MICHAEL H., US
[72] KEELER, JOSHUA M., US
[71] PANOSIAN, MICHAEL H., US
[71] KEELER, JOSHUA M., US
[22] 2023-09-27
[41] 2024-03-27
[30] US (63/410,224) 2022-09-27
[30] US (18/370,901) 2023-09-21

---

[21] **3,214,432**
[13] A1
[51] **Int.Cl. G06F 9/448 (2018.01) G06Q 10/0631 (2023.01) B25J 9/00 (2006.01) B25J 11/00 (2006.01) B25J 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR AUTOMATING TASKS**
[54] **SYSTEMES, METHODES ET LOGICIELS D~AUTOMATISATION DE TACHES**
[72] GILDERT, SUZANNE, CA
[71] SANCTUARY COGNITIVE SYSTEMS CORPORATION, CA
[22] 2023-09-27
[41] 2024-03-27
[30] US (63/410,475) 2022-09-27

---

[21] **3,214,441**
[13] A1
[51] **Int.Cl. B25J 9/22 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR AUTOMATING TASKS**
[54] **SYSTEMES, METHODES ET LOGICIELS D~AUTOMATISATION DE TACHES**
[72] GILDERT, SUZANNE, CA
[71] SANCTUARY COGNITIVE SYSTEMS CORPORATION, CA
[22] 2023-09-27
[41] 2024-03-27
[30] US (63/410,475) 2022-09-27

---

[21] **3,214,448**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR TEMPLATE CREATION, CONFIGURATION, AND IDENTIFICATION**
[54] **SYSTEME ET METHODE POUR LA CREATION, LA CONFIGURATION ET L~IDENTIFICATION DE MODELE**
[72] KHAN, KALIMULLA, US
[72] LINDSEY, WADE, US
[72] JAYATHIRTHA, SRIHARI, US
[72] AFZAL HUSSAINI, SYED KHAJA, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2023-09-27
[41] 2024-03-29
[30] US (18/178457) 2023-03-03
[30] US (63/377606) 2022-09-29

---

[21] **3,214,452**
[13] A1
[51] **Int.Cl. C10L 1/222 (2006.01)**
[25] EN
[54] **FUEL COMPOSITION**
[54] **COMPOSITION DE CARBURANT**
[72] COLUCCI, WILLIAM JAY, US
[72] MENGWASSER, JOHN, US
[71] AFTON CHEMICAL CORPORATION, US
[22] 2023-09-27
[41] 2024-03-30
[30] US (17/937,069) 2022-09-30

---

[21] **3,214,460**
[13] A1
[25] EN
[54] **MULTI-USER FDMA-BASED TRIGGERED TXOP SHARING**
[54] **ECHANGE DE POSSIBILITES DE TRANSMISSION (TXOP) DECLENCHE ENTRE PLUSIEURS UTILISATEURS, A BASE D~ACCES MULTIPLE PAR REPARTITION EN FREQUENCE**
[72] ERKUCUK, SERHAT, US
[72] KIM, JEONGKI, US
[72] DINAN, ESMAEL HEJAZI, US
[72] LANANTE, LEONARDO ALISASIS, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (63/409,863) 2022-09-26
[30] US (63/413,660) 2022-10-06

---

[21] **3,214,513**
[13] A1
[51] **Int.Cl. B62D 33/027 (2006.01) B60P 3/40 (2006.01)**
[25] EN
[54] **VEHICLE HAVING A CARGO BED INCLUDING A TAILGATE**
[54] **VEHICULE COMPRENANT UNE CAISSE DE MARCHANDISES A HAYON**
[72] PARD, JEAN-SEBASTIEN, CA
[72] AUGER, GUILLAUME, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2023-09-28
[41] 2024-03-30
[30] US (63/412,176) 2022-09-30

[21] **3,214,528**
[13] A1
[51] **Int.Cl. B60P 3/40 (2006.01) B62D 33/027 (2006.01)**
[25] EN
[54] **VEHICLE HAVING A CARGO BED WITH A PASS-THROUGH OPENING**
[54] **VEHICULE COMPRENANT UNE CAISSE DE MARCHANDISES A OUVERTURE DEBOUCHANTE**
[72] PARD, JEAN-SEBASTIEN, CA
[72] AUGER, GUILLAUME, CA
[72] LECOINTRE, ALEXANDRE, CA
[72] COTE, ANDRE, CA
[72] CLOUTIER, FRANCIS, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2023-09-28
[41] 2024-03-30
[30] US (63/412,156) 2022-09-30

[21] **3,214,550**
[13] A1
[51] **Int.Cl. B01D 53/22 (2006.01) B01D 61/58 (2006.01) B01D 63/00 (2006.01)**
[25] EN
[54] **MEMBRANE PROCESS AND SYSTEM FOR HIGH RECOVERY OF A NONPERMEATING GAS UTILIZING A SWEEP GAS**
[54] **PROCEDE ET SYSTEME DE MEMBRANE POUR UNE RECUPERATION ELEVEE DE GAZ NON PERMEABLE AU MOYEN D~UN GAZ D~ENTRAINEMENT**
[72] O'BRIEN, MATTHEW P, US
[72] HENRY, DONALD E, US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[22] 2023-09-28
[41] 2024-03-30
[30] US (17/956,933) 2022-09-30

[21] **3,214,586**
[13] A1
[51] **Int.Cl. F01D 9/02 (2006.01) F01D 5/14 (2006.01) F02C 7/00 (2006.01)**
[25] EN
[54] **STATOR VANE FOR A GAS TURBINE ENGINE**
[54] **AUBE DE STATOR POUR UNE TURBINE A GAZ**
[72] HOULE, NICOLA, CA
[72] DI FLORIO, DOMENICO, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-09-27
[41] 2024-03-27
[30] US (17/954,021) 2022-09-27

[21] **3,214,643**
[13] A1
[51] **Int.Cl. E06C 1/393 (2006.01) E06C 1/04 (2006.01) E06C 1/28 (2006.01) E06C 1/383 (2006.01) E06C 7/14 (2006.01)**
[25] EN
[54] **LADDER SYSTEM WITH REMOVABLE TRAY**
[54] **SYSTEME D'ECHELLE COMPRENANT UN PLATEAU AMOVIBLE**
[72] LAWRENCE, KYLE J., US
[72] KRUSE, ERIC W., US
[72] BROWN, EVAN A., US
[72] FRANKS, TROY L., US
[71] DOREL HOME FURNISHINGS, INC., US
[22] 2023-09-28
[41] 2024-03-29
[30] US (63/377,594) 2022-09-29
[30] US (63/385,861) 2022-12-02

[21] **3,214,692**
[13] A1
[51] **Int.Cl. E04H 17/12 (2006.01) E04H 17/02 (2006.01) E04H 17/10 (2006.01) E04H 17/24 (2006.01)**
[25] EN
[54] **METHODS OF ASSEMBLING A CABLE RAIL ASSEMBLY**
[54] **METHODES D'ASSEMBLAGE D'UN RAIL CABLE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] HERITAGE, CHRISTOPHER, US
[72] BERTKE, PATRICK, US
[72] BURGESS, RYAN, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/202,608) 2023-05-26
[30] US (63/412,229) 2022-09-30

[21] **3,214,695**
[13] A1
[51] **Int.Cl. E04H 17/12 (2006.01) E04H 17/02 (2006.01) E04H 17/10 (2006.01) E04H 17/24 (2006.01)**
[25] EN
[54] **CABLE RAIL ASSEMBLY KIT**
[54] **TROUSSE D'ASSEMBLAGE DE RAIL CABLE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] HERITAGE, CHRISTOPHER, US
[72] BERTKE, PATRICK, US
[72] BURGESS, RYAN, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/202,616) 2023-05-26
[30] US (63/412,232) 2022-09-30

[21] **3,214,696**
[13] A1
[51] **Int.Cl. E04H 17/12 (2006.01) E04H 17/02 (2006.01) E04H 17/10 (2006.01) E04H 17/24 (2006.01)**
[25] EN
[54] **RAIL CABLE TENSIONER**
[54] **MECANISME DE TENSIONNEMENT DE CABLE DE RAIL**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] HERITAGE, CHRISTOPHER, US
[72] BERTKE, PATRICK, US
[72] BURGESS, RYAN, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/202,621) 2023-05-26
[30] US (63/412,234) 2022-09-30

[21] **3,214,700**
[13] A1
[51] **Int.Cl. E04F 11/18 (2006.01) E04H 17/10 (2006.01) F16G 11/12 (2006.01)**
[25] EN
[54] **CABLE RAIL WITH RIGID BRIDGE BEAM**
[54] **RAIL CABLE COMPRENANT UNE POUTRE DE PONT RIGIDE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] HERITAGE, CHRISTOPHER, US
[72] BERTKE, PATRICK, US
[72] BURGESS, RYAN, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/202,634) 2023-05-26
[30] US (63/412,240) 2022-09-30

[21] **3,214,703**
[13] A1
[51] **Int.Cl. E04F 11/18 (2006.01) E01F 15/06 (2006.01)**
[25] EN
[54] **CABLE RAIL WITH SERPENTINE CABLE**
[54] **RAIL CABLE COMPRENANT UN CABLE EN SERPENTIN**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] HERITAGE, CHRISTOPHER, US
[72] BERTKE, PATRICK, US
[72] BURGESS, RYAN, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/202,641) 2023-05-26
[30] US (63/412,242) 2022-09-30

[21] **3,214,707**
[13] A1
[51] **Int.Cl. E04H 17/12 (2006.01) E04H 17/02 (2006.01) E04H 17/10 (2006.01) E04H 17/24 (2006.01)**
[25] EN
[54] **CABLE RAIL WITH EXPANDABLE CABLE ASSEMBLY**
[54] **RAIL CABLE COMPRENANT UN ASSEMBLAGE DE CABLE EXTENSIBLE**
[72] SCHNEIDER, CHRISTOPHER MICHAEL, US
[72] HERITAGE, CHRISTOPHER, US
[72] BERTKE, PATRICK, US
[72] BURGESS, RYAN, US
[71] BARRETTE OUTDOOR LIVING, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/202,655) 2023-05-26
[30] US (63/412,244) 2022-09-30

[21] **3,214,710**
[13] A1
[25] EN
[54] **BUFFER STATUS REPORTING FOR TRIGGERED TRANSMISSION OPPORTUNITY SHARING**
[54] **RAPPORT D~ETAT TAMPON POUR ECHANGE DE POSSIBILITE DE TRANSMISSION DECLENCHEE**
[72] KIM, JEONGKI, US
[72] LANANTE, LEONARDO ALISASIS, US
[72] DINAN, ESMAEL HEJAZI, US
[72] ERKUCUK, SERHAT, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-27
[41] 2024-03-27
[30] US (63/410,315) 2022-09-27

[21] **3,214,712**
[13] A1
[51] **Int.Cl. G06Q 10/0835 (2023.01) G06Q 10/0833 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PARCEL DELIVERY**
[54] **SYSTEME ET METHODE POUR LA LIVRAISON DE COLIS**
[72] MCKAY, JIM, CA
[72] MORRISON, TODD, CA
[71] 6518729 CANADA INC., CA
[22] 2023-09-29
[41] 2024-03-30
[30] US (63/377.804) 2022-09-30

[21] **3,214,715**
[13] A1
[51] **Int.Cl. F03D 7/02 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTION AND MITIGATION OF EDGE-WISE VIBRATIONS IN WIND TURBINE BLADES**
[54] **METHODE ET SYSTEME DE DETECTION ET D~ATTENUATION DE VIBRATIONS DANS LES BORDS DE PALES D~EOLIENNES**
[72] YARBROUGH, AARON, US
[72] ANGEL, MATHEW DOYLE, US
[72] CONCHA FLORES, CARLOS ALBERTO, US
[72] HONNETTE, AARON DAVID, US
[71] GENERAL ELECTRIC COMPANY, US
[22] 2023-09-26
[41] 2024-03-26
[30] US (17/952523) 2022-09-26

[21] **3,214,719**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR MODIFYING A MEDIA GUIDANCE APPLICATION BASED ON USER DATA**
[54] **METHODES ET SYSTEMES POUR MODIFIER UNE APPLICATION DE GUIDE MEDIA EN FONCTION DES DONNEES DE L'UTILISATEUR**
[72] GUNGOR, CAGRI, TR
[72] COSKUN, MUSTAFA, TR
[72] HARB, REDA, US
[71] ROVI GUIDES, INC., US
[22] 2023-09-28
[41] 2024-03-28
[30] US (17/954,781) 2022-09-28
[30] US (17/954,782) 2022-09-28

[21] **3,214,723**
[13] A1
[25] EN
[54] **A GENERATIVE SYSTEM FOR REAL-TIME COMPOSITION AND MUSICAL IMPROVISATION**
[54] **SYSTEME GENERATIF POUR LA COMPOSITION EN TEMPS REEL ET L~IMPROVISATION MUSICALE**
[72] VECHTOMOVA, OLGA, CA
[71] VECHTOMOVA, OLGA, CA
[22] 2023-09-28
[41] 2024-03-30
[30] US (63/411,832) 2022-09-30
[30] US (63/419,528) 2022-10-26

[21] **3,214,779**
[13] A1
[25] EN
[54] **FREQUENCY RESOURCE ASSIGNMENT IN MULTI-AP TRANSMISSION**
[54] **ATTRIBUTION DE RESSOURCE DE FREQUENCE DANS UNE TRANSMISSION A POINTS D~ACCES MULTIPLES**
[72] LANANTE, LEONARDO ALISASIS, US
[72] KIM, JEONGKI, US
[72] DINAN, ESMAEL HEJAZI, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-28
[41] 2024-03-28
[30] US (63/410,675) 2022-09-28

[21] **3,214,783**
[13] A1
[51] **Int.Cl. H05B 7/18 (2006.01) F27D 27/00 (2010.01) F27D 11/08 (2006.01) H02M 5/16 (2006.01) H05B 7/144 (2006.01)**
[25] EN
[54] **POWER SUPPLY FOR AN ELECTRIC ARC FURNACE**
[54] **BLOC D'ALIMENTATION POUR UN FOUR A ARC ELECTRIQUE**
[72] BARAJAS, JUAN BERNARDO SAINZ, MX
[72] VILLARREAL, ROMMEL DAED VILLARREAL, MX
[71] AMI INTERNATIONAL SAPI DE C.V., MX
[22] 2023-09-28
[41] 2024-03-29
[30] US (63/377,640) 2022-09-29

[21] **3,214,785**
[13] A1
[25] EN
[54] **LATENCY REDUCTION FOR PRIMARY CELL SWITCHING**
[54] **REDUCTION DE LATENCE POUR LA COMMUTATION DE PILE PRINCIPALE**
[72] ZHOU, HUA, US
[72] PARK, KYUNGMIN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] CIRIK, ALI CAGATAY, US
[72] JEON, HYOUNGSUK, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-28
[41] 2024-03-28
[30] US (63/410,914) 2022-09-28

[21] **3,214,795**
[13] A1
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/08 (2012.01) G06Q 20/22 (2012.01) G06Q 20/40 (2012.01) G06F 8/656 (2018.01) G06F 11/16 (2006.01)**
[25] EN
[54] **ACTOR MODEL PAYMENT PROCESSING ENGINE**
[54] **MOTEUR DE TRAITEMENT DE PAIEMENT A MODELE D~ACTEURS**
[72] JIANG, SHANGJIA, CA
[72] GANAPATHY, SOHAN, CA
[72] MARIMUTHU, RAJU, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2023-09-28
[41] 2024-03-28
[30] US (63/410,997) 2022-09-28

[21] **3,214,800**
[13] A1
[51] **Int.Cl. C10J 3/54 (2006.01) C10J 3/84 (2006.01)**
[25] EN
[54] **PROCESS FOR REPLACEMENT OF FOSSIL FUELS IN FIRING OF ROTARY LIME KILNS**
[54] **PROCEDE DE REMPLACEMENT DE COMBUSTIBLES FOSSILES DANS L'ALLUMAGE DE FOURS A CHAUX ROTATIFS**
[72] LI, YONG HUA, CA
[72] WANG, WEI, CA
[72] WATKINSON, ALAN PAUL, CA
[71] HIGHBURY ENERGY INC., CA
[22] 2023-09-28
[41] 2024-03-30
[30] US (63/412,337) 2022-09-30

[21] **3,214,811**
[13] A1
[51] **Int.Cl. B62D 33/08 (2006.01) B60P 1/64 (2006.01) B60P 3/40 (2006.01) B60R 9/06 (2006.01) B62D 25/00 (2006.01) B62D 27/00 (2006.01) B62D 33/02 (2006.01)**
[25] EN
[54] **VEHICLE HAVING SUPPORT HOLDERS BELOW A CARGO BED**
[54] **VEHICULE COMPRENANT DES PALIERS DE SUPPORT SOUS LA CAISSE DE MARCHANDISES**
[72] PARD, JEAN-SEBASTIEN, CA
[72] AUGER, GUILLAUME, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2023-09-28
[41] 2024-03-30
[30] US (63/412,197) 2022-09-30

[21] **3,214,835**
[13] A1
[51] **Int.Cl. A61G 17/04 (2006.01)**
[25] EN
[54] **ROBUST FUNERARY TRAY**
[54] **PLATEAU FUNERAIRE ROBUSTE**
[72] DAVIS, JUSTIN F., US
[72] MACE, TREVOR E., US
[71] VANDOR GROUP, INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (63/411,936) 2022-09-30

[21] **3,214,848**
[13] A1
[51] **Int.Cl. G06F 9/50 (2006.01) G06F 15/16 (2006.01) G06F 17/00 (2019.01)**
[25] EN
[54] **HYBRID DATA-COMPUTE PLATFORM**
[54] **PLATEFORME INFORMATIQUE-DONNEES HYBRIDE**
[72] AGRAWAL, MANOJ, CA
[72] MODHA, GUNJAN, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2023-09-29
[41] 2024-03-30
[30] US (63/411,790) 2022-09-30

[21] **3,214,858**
[13] A1
[51] **Int.Cl. E21B 10/38 (2006.01) E21B 10/56 (2006.01)**
[25] EN
[54] **PERCUSSIVE DRILL BIT**
[54] **FORET PNEUMATIQUE**
[72] LACHANCE, ANTHONY, CA
[72] BRUBACHER, ADRIAN, CA
[72] BILY, MARK, CA
[71] BOART LONGYEAR COMPANY, US
[22] 2023-09-28
[41] 2024-03-29
[30] US (63/411,304) 2022-09-29

[21] **3,214,860**
[13] A1
[25] EN
[54] **ASSET MANAGEMENT AND COMMUNICATION SYSTEM FOR LUMINAIRE DEVICES**
[54] **GESTION DES BIENS ET SYSTEME DE COMMUNICATION POUR APPAREILS D~ECLAIRAGE**
[72] HAMLIN, ROBERT W., US
[72] PATIL, ROHAN, US
[72] GROSS, PHILIP S., US
[72] KO, CHE CHUNG, US
[71] ABL IP HOLDING, LLC, US
[22] 2023-09-27
[41] 2024-03-30
[30] US (63/377,789) 2022-09-30
[30] US (63/377,792) 2022-09-30

[21] **3,214,866**
[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] BOWDEN, MARK, US
[72] HETU, SEBASTIEN, US
[72] DEMERS, MAXIME, US
[71] ID TECHNOLOGY LLC, US
[22] 2023-09-29
[41] 2024-03-30
[30] US (18/464,729) 2023-09-11
[30] US (63/412,022) 2022-09-30

[21] **3,214,873**
[13] A1
[51] **Int.Cl. A47C 17/13 (2006.01)**
[25] EN
[54] **MECHANISM FOR ARTICULATING CONVERTIBLE FURNITURE**
[54] **MECANISME D~ARTICULATION D~UN MEUBLE CONVERTIBLE**
[72] LARSEN, ANDERS, US
[72] STOCKTON, STEPHEN, US
[72] GASAL, DOUGLAS, US
[72] NGUYEN, KEVIN, US
[71] AMERICAN LEATHER OPERATIONS, LLC, US
[22] 2023-09-27
[41] 2024-03-30
[30] US (63/411,848) 2022-09-30
[30] US (17/985,521) 2022-11-11
[30] US (18/372,446) 2023-09-25

[21] **3,214,898**
[13] A1
[51] **Int.Cl. F04B 53/02 (2006.01) F04B 47/00 (2006.01) F04B 53/16 (2006.01)**
[25] EN
[54] **PACKING SEAL**
[54] **GARNITURE D'ETANCHEITE**
[72] HASHEMIAN, MEHDI, US
[72] SCHUETTE, SCOTT C., US
[72] HEDGER, WILLIAM MICHAEL, US
[72] VILLEGAS, JUAN, US
[71] HASHEMIAN, MEHDI, US
[71] SCHUETTE, SCOTT C., US
[71] HEDGER, WILLIAM MICHAEL, US
[71] VILLEGAS, JUAN, US
[22] 2023-09-27
[41] 2024-03-27
[30] US (63/377,232) 2022-09-27

[21] **3,214,957**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23L 19/00 (2016.01) A01H 6/82 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **TOMATO VARIETY NUN 01547 TOF**
[54] **TOMATE DE VARIETE NUN 01547 TOF**
[72] BUSTAMANTE PORRAS, JOSE WILFREDO, MX
[71] NUNHEMS B.V., NL
[22] 2023-09-27
[41] 2024-03-29
[30] US (63/411,458) 2022-09-29

[21] **3,214,988**
[13] A1
[51] **Int.Cl. B62D 57/00 (2006.01) B60F 5/00 (2006.01) B62D 63/06 (2006.01) B65D 85/68 (2006.01)**
[25] EN
[54] **CONVERTIBLE OFF-ROAD TRAILER**
[54] **REMORQUE HORS ROUTE CONVERTIBLE**
[72] JOHNSON, BARRY ALAN, US
[72] THIBERT, DEREK, US
[72] WIMPFHEIMER, CORY, US
[72] EATON, JEFFREY A., US
[72] PRUSAK, MATTHEW, US
[72] KENDALL, RACHEL L., US
[71] POLARIS INDUSTRIES INC., US
[22] 2023-09-29
[41] 2024-03-30
[30] US (63/411,739) 2022-09-30

[21] **3,215,118**
[13] A1
[51] **Int.Cl. H02J 9/06 (2006.01) G05B 19/042 (2006.01) H02J 3/06 (2006.01)**
[25] EN
[54] **SOFTWARE CONFIGURABLE ACCESSORIES FOR AN AUTOMATIC TRANSFER SWITCH (ATS)**
[54] **ACCESSOIRES CONFIGURABLES PAR LOGICIEL POUR UN COMMUTATEUR DE TRANSFERT AUTOMATIQUE**
[72] BONACHEA, VICTOR E., US
[72] HAYES, JOHN E., US
[72] LEVISAY, CHAUNCEY A., US
[71] ASCO POWER TECHNOLOGIES, L.P., US
[22] 2023-09-29
[41] 2024-03-29
[30] US (17/956,424) 2022-09-29

[21] **3,215,124**
[13] A1
[25] EN
[54] **HANDLING A CANDIDATE CELL CONFIGURATION**
[54] **TRAITEMENT D~UNE CONFIGURATION DE CELLULE CANDIDATE**
[72] LATHEEF, FASIL ABDUL, US
[72] KIM, TAEHUN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] JEON, HYOUNGSUK, US
[72] XU, JIAN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-29
[41] 2024-03-29
[30] US (63/411,580) 2022-09-29

[21] **3,215,127**
[13] A1
[25] EN
[54] **POWER HEADROOM REPORT FOR FAST PRIMARY CELL SWITCHING**
[54] **RAPPORT DE MARGE D~ALIMENTATION POUR UNE COMMUTATION RAPIDE DE PILE PRINCIPALE**
[72] ZHOU, HUA, US
[72] JEON, HYOUNGSUK, US
[72] DINAN, ESMAEL HEJAZI, US
[72] CIRIK, ALI CAGATAY, US
[72] PARK, KYUNGMIN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-29
[41] 2024-03-29
[30] US (63/411,578) 2022-09-29

[21] **3,215,130**
[13] A1
[25] EN
[54] **CHANNEL OCCUPANCY ASSISTANCE INFORMATION FOR SIDELINK**
[54] **RENSEIGNEMENTS D~AIDE SUR L~OCCUPATION DE CANAL POUR LIAISON LATERALE**
[72] RASTEGARDOOST, NAZANIN, US
[72] JEON, HYOUNGSUK, US
[72] DINAN, ESMAEL HEJAZI, US
[72] HUI, BING, US
[72] KIM, TAEHUN, US
[72] HONG, JONGWOO, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-29
[41] 2024-03-30
[30] US (63/411,630) 2022-09-30

[21] **3,215,238**
[13] A1
[25] EN
[54] **SIDELINK COMMUNICATIONS IN UNLICENSED BAND**
[54] **COMMUNICATIONS EN LIAISON LATERALE DANS UNE BANDE NON AUTORISEE**
[72] LIN, HUIFA, US
[72] JEON, HYOUNGSUK, US
[72] DINAN, ESMAEL HEJAZI, US
[72] HUI, BING, US
[72] RASTEGARDOOST, NAZANIN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-29
[41] 2024-03-29
[30] US (63/411,492) 2022-09-29

[21] **3,224,523**
[13] A1
[51] **Int.Cl. A63H 33/00 (2006.01) A63B 43/00 (2006.01)**
[25] EN
[54] **TOY WATER BALL**
[54] **BALLON D'EAU JOUET**
[72] XIONG, BIN, CN
[71] DONGGUAN YUEYING RUBBER CO., LTD., CN
[22] 2023-12-22
[41] 2024-03-27
[30] CN (202320769008.9) 2023-04-07

[21] **3,227,638**
[13] A1
[51] **Int.Cl. D04H 1/42 (2012.01) D04H 1/4266 (2012.01) D04H 1/4309 (2012.01) C11D 17/06 (2006.01)**
[25] EN
[54] **WATER SOLUBLE UNIT DOSE ARTICLE HAVING A GRAPHIC PRINTED THEREON**
[54] **ARTICLE DE DOSE UNITAIRE HYDROSOLUBLE COMPRENANT UN IMPRIME GRAPHIQUE**
[72] HEATHCOTE, LINDSEY, US
[72] TANTAWY, HOSSAM HASSAN, US
[71] THE PROCTOR & GAMBLE COMPANY, US
[22] 2024-01-30
[41] 2024-03-26

---

[21] **3,227,755**
[13] A1
[51] **Int.Cl. C02F 7/00 (2006.01) C02F 1/48 (2006.01)**
[25] EN
[54] **A METHOD OF ACCELERATING OXYGENATION OF A BODY OF WATER**
[54] **METHODE D'ACCELERATION DE L'OXYGENATION D'UN PLAN D'EAU**
[72] FUNG, DAVID TAT FAI, CA
[72] TEITELBAUM, NEIL, CA
[71] FUNG, DAVID TAT FAI, CA
[71] TEITELBAUM, NEIL, CA
[22] 2024-01-30
[41] 2024-03-29

---

[21] **3,227,878**
[13] A1
[25] EN
[54] **METHOD TO LOCATE AND QUANTIFY BITUMEN MATS IN OIL SANDS TAILINGS CONTAINMENT PONDS**
[54] **METHODE POUR LOCALISER ET QUANTIFIER LES COUCHES DE BITUMES DANS LES ETANGS DE CONFINEMENT DE RESIDUS DE SABLES BITUMINEUX**
[72] MIKULA, PAUL, CA
[72] BELLO-HAMILTON, ADEOLA, CA
[72] BARA, BARRY, CA
[72] WANG, NAN, CA
[72] MIKULA, RANDY, 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] 2024-02-01
[41] 2024-03-29

---

[21] **3,229,909**
[13] A1
[51] **Int.Cl. H02G 1/02 (2006.01) H01R 4/28 (2006.01)**
[25] EN
[54] **CLAMPING DEVICE WITH CLAMPING COMPENSATION**
[54] **DISPOSITIF DE SERRAGE A COMPENSATION DE SERRAGE**
[72] GAJOCHA, JESSICA, FR
[72] CONSTANS, CHRISTIAN, FR
[71] FAMECA, FR
[22] 2024-02-22
[41] 2024-03-30
[30] US (18/174,959) 2023-02-27

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,160,463**
[13] A1
[51] **Int.Cl. H04L 43/065 (2022.01) G16Y 40/35 (2020.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MANAGING IOT DEVICE, AND SERVER AND STORAGE MEDIUM THEREOF**
[54] **PROCEDE ET APPAREIL DE GESTION DE DISPOSITIF IOT, ET SERVEUR ET SUPPORT DE STOCKAGE ASSOCIES**
[72] TANG, JIAN, CN
[72] MING, LANG, CN
[71] ENVISION DIGITAL INTERNATIONAL PTE. LTD., SG
[71] SHANGHAI ENVISION DIGITAL CO., LTD., CN
[85] 2022-05-04
[86] 2020-11-04 (PCT/SG2020/050636)
[87] (WO2021/091491)
[30] CN (201911072652.5) 2019-11-05

[21] **3,184,433**
[13] A1
[51] **Int.Cl. A47J 43/07 (2006.01) A47J 43/044 (2006.01)**
[25] EN
[54] **MICRO PUREE MACHINE WITH ANGLED BOWL**
[54] **MACHINE A MICROPUREE AVEC BOL INCLINE**
[72] LYELL, NATHAN, US
[72] JASSO, DIEGO, US
[72] MICHIENZI, RYAN, US
[72] RUGGIERO, GLEN, US
[72] CHU, PING, US
[72] ZHANG, THOMAS, US
[72] WANG, YANFENG, US
[71] SHARKNINJA OPERATING LLC, US
[85] 2022-12-28
[86] 2022-09-30 (PCT/CN2022/123016)
[87] (3184433)

[21] **3,184,435**
[13] A1
[51] **Int.Cl. A47J 43/07 (2006.01) A47J 43/044 (2006.01)**
[25] EN
[54] **MICRO PUREE MACHINE WITH FIXED MOTORS**
[54] **MACHINE DE MICROPUREE A MOTEURS FIXES**
[72] ZHANG, THOMAS, US
[72] WANG, YANFENG, US
[72] SHI, MING LI, US
[72] DENG, XU SHENG, US
[72] HU, KAI PING, US
[72] CHU, PING, US
[71] SHARKNINJA OPERATING LLC, US
[85] 2022-12-28
[86] 2022-09-30 (PCT/CN2022/123017)
[87] (3184435)

[21] **3,189,326**
[13] A1
[51] **Int.Cl. B60K 17/00 (2006.01) B60K 23/00 (2006.01) F16H 61/32 (2006.01)**
[25] EN
[54] **BATTERY ELECTRIC VEHICLE TRANSMISSION WITH DISENGAGING FUNCTION**
[54] **TRANSMISSION DE VEHICULE ELECTRIQUE A BATTERIE AVEC FONCTION DE DEBRAYAGE**
[72] YU, WENYONG, CN
[71] ZHEJIANG SIEKON TRANSMISSION TECHNOLOGY CO., LTD., CN
[85] 2023-02-13
[86] 2022-12-14 (PCT/CN2022/139053)
[87] (3189326)
[30] CN (202211168537.X) 2022-09-24

[21] **3,190,342**
[13] A1
[51] **Int.Cl. G01J 5/90 (2022.01) A61B 5/024 (2006.01) G01S 17/08 (2006.01)**
[25] EN
[54] **TEMPERATURE MEASURING DEVICE AND TEMPERATURE MEASURING METHOD**
[54] **DISPOSITIF ET METHODE DE MESURE DE LA TEMPERATURE**
[72] SHOU, TOKURIN, JP
[71] JAPAN PRECISION INSTRUMENTS INC., JP
[85] 2023-02-21
[86] 2022-09-29 (PCT/JP2022/036561)
[87] (3190342)
[30] JP (2022-004893) 2022-01-17

[21] **3,210,853**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01)**
[25] EN
[54] **SUPER-RESOLUTION MICROSCOPIC IMAGING METHOD AND APPARATUS, COMPUTER DEVICE, AND STORAGE MEDIUM**
[54] **METHODE ET APPAREIL D'IMAGERIE MICROSCOPIQUE A SUPER-RESOLUTION, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] ZHAO, WEISONG, CN
[72] LI, HAOYU, CN
[72] ZHAO, SHIQUN, CN
[71] GUANGZHOU COMPUTATIONAL SUPER-RESOLUTION BIOTECH CO., LTD., CN
[85] 2023-09-01
[86] 2022-09-26 (PCT/CN2022/121400)
[87] (3210853)

[21] **3,220,117**
[13] A1
[51] **Int.Cl. A23J 1/14 (2006.01) A23L 29/206 (2016.01) A23L 33/185 (2016.01) A23P 30/40 (2016.01) A23L 2/66 (2006.01) C11B 1/10 (2006.01) C07K 1/14 (2006.01)**
[25] EN
[54] **METHOD FOR EXTRACTION AND MULTI-SCENARIO UTILIZATION OF FLAXSEED PROTEIN-POLYSACCHARIDE NATURAL MIXTURE**
[54] **METHODE D'EXTRACTION ET D'UTILISATION DANS PLUSIEURS SCENARIOS D'UN MELANGE NATUREL DE PROTEINE DE GRAINE DE LIN ET DE POLYSACCHARIDE**
[72] DENG, QIANCHUN, CN
[72] PENG, DENGFENG, CN
[72] LI, KANGYU, CN
[72] SHAO, JIAQI, CN
[72] YE, JIETING, CN
[71] OIL CROPS RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES, CN
[85] 2023-11-15
[86] 2023-05-04 (PCT/CN2023/091960)
[87] (3220117)
[30] CN (202211212168.X) 2022-09-30

[21] **3,222,243**
[13] A1
[51] **Int.Cl. H04W 56/00 (2009.01) H04L 5/00 (2006.01) H04L 27/26 (2006.01)**
[25] EN
[54] **DEMODULATION REFERENCE SIGNAL PORT MAPPING AND INDICATION**
[54] **REACHEMINEMENT ET INDICATION DE PORT DE SIGNAL DE REFERENCE DE DEMODULATION**
[72] MEI, MENG, CN
[72] GAO, BO, CN
[72] ZHANG, YANG, CN
[72] YAO, KE, CN
[71] ZTE CORPORATION, CN
[85] 2023-12-06
[86] 2022-09-29 (PCT/CN2022/122955)
[87] (3222243)

[21] **3,225,058**
[13] A1
[51] **Int.Cl. H04W 76/10 (2018.01) H04B 7/04 (2017.01) H04W 72/23 (2023.01)**
[25] EN
[54] **8TX CODEBOOK ENHANCEMENTS**
[54] **AMELIORATIONS DE LIVRE DE CODE 8TX**
[72] YAO, KE, JP
[72] GAO, BO, JP
[72] GUO, XIAOLONG, JP
[72] MEI, MENG, JP
[72] ZHANG, YANG, JP
[71] ZTE CORPORATION, CN
[85] 2023-12-28
[86] 2022-09-30 (PCT/CN2022/123445)
[87] (3225058)

[21] **3,225,234**
[13] A1
[25] EN
[54] **MICROORGANISM AND METHOD FOR THE IMPROVED PRODUCTION OF SERINE AND/OR CYSTEINE**
[54] **MICRO-ORGANISME ET PROCEDE POUR LA PRODUCTION AMELIOREE DE SERINE ET/OU DE CYSTEINE**
[72] RAYNAUD, CELINE, FR
[72] DUMON-SEIGNOVERT, LAURENCE, FR
[72] SOUCAILLE, PHILIPPE, FR
[72] DESFOUGERES, THOMAS, FR
[71] METABOLIC EXPLORER, FR
[85] 2024-03-21
[86] 2023-08-03 (PCT/EP2023/071522)
[87] (3225234)
[30] EP (22306183.9) 2022-08-04

[21] **3,226,666**
[13] A1
[51] **Int.Cl. B29C 64/386 (2017.01) B33Y 50/02 (2015.01) B29C 64/112 (2017.01) B29C 64/135 (2017.01) B29C 64/165 (2017.01) B29C 64/393 (2017.01) B22F 10/20 (2021.01) B22F 10/80 (2021.01)**
[25] EN
[54] **REPRESENTATIVE PART, METHODS OF DESIGNING REPRESENTATIVE PARTS, METHODS OF FORMING AND TESTING REPRESENTATIVE PARTS, AND METHODS OF QUALIFYING ADDITIVE MANUFACTURING SYSTEMS**
[54] **PIECE REPRESENTATIVE, PROCEDES DE CONCEPTION DE PIECES REPRESENTATIVES, PROCEDES DE FORMATION ET DE TEST DE PIECES REPRESENTATIVES, ET PROCEDES DE QUALIFICATION DE SYSTEMES DE FABRICATION ADDITIV**
[72] MALKAWI, AMEEN MOH'D JEHAD, SA
[72] MINHAS, NAEEM-UR, SA
[72] LAKHAMRAJU, RAGHAVA RAJU, SA
[72] ALEID, ZAHRA RIDHA, SA
[72] SHARROFNA, HUSSAIN, SA
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2024-01-23
[86] 2022-09-26 (PCT/US2022/074109)
[87] (WO2023/009981)
[30] US (63/227,613) 2021-07-30
[30] US (17/465,207) 2021-09-02

[21] **3,227,673**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 9/51 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61P 25/04 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITIONS COMPRISING DENDRITIC NANOCARRIERS AND CANNABIS ACTIVE AGENTS**
[54] **COMPOSITIONS PHARMACEUTIQUES COMPRENANT DES NANOVECTEURS DENDRITIQUES ET DES PRINCIPES ACTIFS DE CANNABIS**
[72] ZIERAU, KLAAS, DE
[72] HOEHNE, DAVID, DE
[72] MORE, SAM, DE
[71] HM HERBAMEDICA GMBH, DE
[71] DENDROPHARM GMBH, DE
[85] 2024-01-31
[86] 2022-08-10 (PCT/EP2022/072482)
[87] (WO2023/017095)
[30] EP (21190888.4) 2021-08-11

[21] **3,228,397**
[13] A1
[51] **Int.Cl. F01D 15/10 (2006.01) F24T 10/20 (2018.01)**
[25] EN
[54] **THERMAL PROCESSES AND SYSTEMS FOR GENERATING ELECTRICITY UTILIZING PREDETERMINED WORKING FLUIDS**
[54] **PROCEDES ET SYSTEMES THERMIQUES POUR GENERER DE L'ELECTRICITE A L'AIDE DE FLUIDES DE TRAVAIL PREDETERMINES**
[72] AREFI, BABAK BOB, US
[71] AREFI, BABAK BOB, US
[85] 2024-02-07
[86] 2022-08-12 (PCT/US2022/040240)
[87] (WO2023/018981)
[30] US (63/232,351) 2021-08-12
[30] US (63/292,186) 2021-12-21

[21] **3,231,122**
[13] A1
[51] **Int.Cl. G16H 20/30 (2018.01) G16H 20/60 (2018.01) G16H 20/70 (2018.01) G16H 40/20 (2018.01) G16H 40/67 (2018.01)**
[25] EN
[54] **A PATIENT SUPPORT PLATFORM FOR INCREASING PATIENT ENGAGEMENT**
[54] **PLATE-FORME DE PRISE EN CHARGE DE PATIENT POUR AUGMENTER LA FIDELITE D'UN PATIENT**
[72] VIGGOSSON, OLAFUR PROSTUR, IS
[72] PORGEIRSSON, TRYGGVI, IS
[71] SIDEKICKHEALTH EHF., IS
[85] 2024-03-06
[86] 2022-09-22 (PCT/IB2022/000543)
[87] (WO2023/047189)
[30] US (63/261,508) 2021-09-22
[30] US (63/394,922) 2022-08-03

[21] **3,231,141**
[13] A1
[51] **Int.Cl. F26B 3/04 (2006.01) F26B 15/12 (2006.01)**
[25] EN
[54] **DRYER FOR DRYING BOARDS AT LOW TEMPERATURES**
[54] **SECHOIR POUR SECHER DES PLAQUES A BASSES TEMPERATURES**
[72] STRAETMANS, CHRISTOPH, DE
[71] GRENZEBACH BSH GMBH, DE
[85] 2024-03-06
[86] 2022-09-11 (PCT/EP2022/025424)
[87] (WO2023/036470)
[30] DE (10 2021 004 578.5) 2021-09-11

[21] **3,231,345**
[13] A1
[25] EN
[54] **DISPOSABLE CARTRIDGES FOR ELECTROSTATIC APPLICATOR, SYSTEMS, AND METHODS THEREOF**
[54] **CARTOUCHES JETABLES POUR UN APPLICATEUR ELECTROSTATIQUE, SYSTEMES ET METHODES CONNEXES**
[72] WRIGHT, CLIFFORD A., US
[72] ELSABEE, KYLE, US
[72] REISMAN, BEN, US
[72] LAWRENCE, RON, US
[72] ORTUNO, DAN, US
[72] BRAINERD, GUSTEN, US
[72] WOLD, MATTHEW MICHAEL, US
[72] WILLIAMS, MICHAEL, US
[71] OCTET MEDICAL, INC., US
[85] 2024-03-07
[86] 2023-09-28 (PCT/US2023/034044)
[87] (3231345)
[30] US (63/411334) 2022-09-29
[30] US (18/110854) 2023-02-16

[21] **3,231,641**
[13] A1
[51] **Int.Cl. H01M 50/46 (2021.01) H01M 50/403 (2021.01) B29C 65/78 (2006.01) H01M 6/02 (2006.01) H01M 10/04 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PRODUCING AN ELECTRODE-SEPARATOR ASSEMBLY FOR A BATTERY CELL**
[54] **PROCEDE ET DISPOSITIF PERMETTANT DE FABRIQUER UN ENSEMBLE ELECTRODES-SEPARATEUR POUR UN ELEMENT DE BATTERIE**
[72] MULLER, ALEXANDER, DE
[72] AYDEMIR, MUHAMMED, DE
[72] KAHL, MORITZ, DE
[72] DIETRICH, FRANZ, DE
[71] TECHNISCHE UNIVERSITAT BERLIN, DE
[85] 2024-03-12
[86] 2022-09-09 (PCT/EP2022/075137)
[87] (WO2023/041441)
[30] EP (21197510.7) 2021-09-17

[21] **3,231,810**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **MULTISPECIFIC ANTIBODIES FOR USE IN TREATING DISEASES**
[54] **ANTICORPS MULTISPECIFIQUES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE MALADIES**
[72] AMIT, IDO, IL
[72] DAHAN, RONY, IL
[72] SHAPIR, YUVAL, IL
[72] BARBOY, OREN, IL
[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL
[85] 2024-03-13
[86] 2022-09-14 (PCT/IL2022/050995)
[87] (WO2023/042202)
[30] IL (286430) 2021-09-14

[21] **3,231,990**
[13] A1
[51] **Int.Cl. E05D 7/081 (2006.01)**
[25] EN
[54] **HINGE FOR EMBEDDED HOME APPLIANCES AND REFRIGERATOR**
[54] **CHARNIERES D'APPAREIL ELECTROMENAGER INTEGREES ET REFRIGERATEUR**
[72] LI, WEI, CN
[72] WANG, SHISHENG, CN
[72] GU, WEI, CN
[71] HEFEI SNOWKY ELECTRIC CO., LTD, CN
[85] 2024-03-15
[86] 2023-10-12 (PCT/CN2023/124276)
[87] (WO2024/051860)

[21] **3,232,070**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61P 11/00 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **OLIGONUCLEOTIDE COMPOSITIONS AND METHODS THEREOF**
[54] **COMPOSITIONS D'OLIGONUCLEOTIDES ET PROCEDES ASSOCIES**
[72] MONIAN, PRASHANT, US
[72] SHIVALILA, CHIKDU SHAKTI, US
[72] LU, GENLIANG, US
[72] VARGEESE, CHANDRA, US
[72] GIANGRANDE, PALOMA HOBAN, US
[72] KANDASAMY, PACHAMUTHU, US
[72] IWAMOTO, NAOKI, US
[72] SHIMIZU, MAMORU, US
[72] YU, HUI, US
[72] YANG, HAILIN, US
[72] LAMORE, SARAH DIANE, US
[72] ZHANG, FENGJIAO, US
[72] NARAYANAN, PADMAKUMAR, US
[71] WAVE LIFE SCIENCES LTD., SG
[85] 2024-03-15
[86] 2022-09-26 (PCT/US2022/044765)
[87] (WO2023/049475)
[30] US (63/248,520) 2021-09-26
[30] US (PCT/US2021/058495) 2021-11-08
[30] US (63/331,756) 2022-04-15
[30] US (63/397,320) 2022-08-11

[21] **3,232,073**
[13] A1
[51] **Int.Cl. H05K 7/10 (2006.01) H04L 41/0806 (2022.01) G05B 19/042 (2006.01) H04L 12/02 (2006.01)**
[25] EN
[54] **ARBITRARILY CONFIGURABLE SENSORS AND ELECTRICAL DEVICES**
[54] **CAPTEURS ARBITRAIREMENT CONFIGURABLES ET DISPOSITIFS ELECTRIQUES**
[72] MISENER, LOWELL DONALD, CA
[72] ADAMSON, CHRISTOPHER E., CA
[72] WILSON, CAMERON, CA
[71] SWIDGET CORP., CA
[85] 2024-03-18
[86] 2022-09-27 (PCT/CA2022/051427)
[87] (WO2023/049996)
[30] US (63/249,272) 2021-09-28

[21] **3,232,093**
[13] A1
[51] **Int.Cl. A01B 73/04 (2006.01) A01D 34/66 (2006.01) A01D 69/06 (2006.01)**
[25] EN
[54] **ARTICULATED APPARATUS**
[54] **APPAREIL ARTICULE**
[72] WILLS, PAUL, GB
[72] BROWNING, CHARLES, GB
[72] WOLFENDEN, ROY, GB
[72] HORSFIELD, JACK, GB
[71] WESSEX INTERNATIONAL MACHINERY, GB
[85] 2024-03-18
[86] 2022-09-28 (PCT/GB2022/052452)
[87] (WO2023/073338)
[30] GB (2115317.6) 2021-10-25

[21] **3,232,199**
[13] A1
[51] **Int.Cl. G01N 33/50 (2006.01) G01N 33/52 (2006.01)**
[25] EN
[54] **SCREENING DONOR LUNGS FOR LUNG TRANSPLANTATION**
[54] **SELECTION DE POUMONS DE DONNEURS POUR UNE TRANSPLANTATION PULMONAIRE**
[72] KESHAVJEE, SHAFIQUE, CA
[72] SAGE, ANDREW, CA
[72] CYPEL, MARCELO, CA
[72] MARTINU, TEREZA, CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2024-03-18
[86] 2022-09-26 (PCT/CA2022/051424)
[87] (WO2023/044583)
[30] US (63/248,226) 2021-09-24

[21] **3,232,349**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) C07K 14/705 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING POLYPEPTIDES, ANTIGEN BINDING POLYPEPTIDE COMPLEXES AND METHODS OF USE THEREOF**
[54] **POLYPEPTIDES DE LIAISON A L'ANTIGENE, COMPLEXES POLYPEPTIDIQUES DE LIAISON A L'ANTIGENE ET LEURS PROCEDES D'UTILISATION**
[72] GRECI, MARK, US
[72] CHEN, HAO, US
[72] WU, LAN, US
[72] WEI, RONNIE RONG, US
[72] XU, LING, US
[72] YANG, ZHI-YONG, US
[72] SEUNG, EDWARD, US
[72] NABEL, GARY J., US
[71] MODEX THERAPEUTICS, INC., US
[85] 2024-03-19
[86] 2022-09-28 (PCT/US2022/077200)
[87] (WO2023/056312)
[30] US (63/249,722) 2021-09-29
[30] US (63/249,794) 2021-09-29
[30] US (63/249,833) 2021-09-29
[30] US (63/249,919) 2021-09-29
[30] US (63/291,305) 2021-12-17
[30] US (63/292,382) 2021-12-21

[21] **3,232,364**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/18 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING POLYPEPTIDES, ANTIGEN BINDING POLYPEPTIDE COMPLEXES AND METHODS OF USE THEREOF**
[54] **POLYPEPTIDES DE LIAISON A L'ANTIGENE, COMPLEXES POLYPEPTIDIQUES SE LIANT A L'ANTIGENE ET LEURS METHODES D'UTILISATION**
[72] WEI, RONNIE RONG, US
[72] XU, LING, US
[72] YANG, ZHI-YONG, US
[72] SEUNG, EDWARD, US
[72] NABEL, GARY J., US
[71] MODEX THERAPEUTICS, INC., US
[85] 2024-03-19
[86] 2022-09-28 (PCT/US2022/077202)
[87] (WO2023/056314)
[30] US (63/249,722) 2021-09-29
[30] US (63/249,794) 2021-09-29
[30] US (63/249,833) 2021-09-29
[30] US (63/249,919) 2021-09-29
[30] US (63/291,305) 2021-12-17
[30] US (63/292,382) 2021-12-21

[21] **3,232,569**
[13] A1
[51] **Int.Cl. F04D 15/00 (2006.01) F04D 15/02 (2006.01) F04D 29/66 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING PUMP VIBRATIONS**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE VIBRATIONS DE POMPE**
[72] SUNDSTROM, TIM, SE
[71] S.P.M. INSTRUMENT AB, SE
[85] 2024-03-20
[86] 2022-10-10 (PCT/SE2022/050914)
[87] (WO2023/059263)
[30] SE (2151246-2) 2021-10-09
[30] SE (2251177-8) 2022-10-09

[21] **3,232,601**
[13] A1
[51] **Int.Cl. G06F 3/048 (2013.01) G06T 19/00 (2011.01) G06T 19/20 (2011.01) G06N 20/00 (2019.01)**
[25] EN
[54] **BROWSER OPTIMIZED INTERACTIVE ELECTRONIC MODEL BASED DETERMINATION OF ATTRIBUTES OF A STRUCTURE**
[54] **DETERMINATION BASEE SUR UN MODELE ELECTRONIQUE INTERACTIF OPTIMISE DE NAVIGATEUR D'ATTRIBUTS D'UNE STRUCTURE**
[72] BABINOWICH, KYLE, US
[72] HALBER, MACIEJ, US
[72] EDER, MARC, US
[72] SINGH, JANPREET, US
[72] RATTNER, ZACH, US
[72] MOHAN, SIDDHARTH, US
[71] YEMBO, INC., US
[85] 2024-03-14
[86] 2022-09-17 (PCT/IB2022/058792)
[87] (WO2023/042160)
[30] US (63/245,340) 2021-09-17

[21] **3,232,700**
[13] A1
[51] **Int.Cl. A61K 45/00 (2006.01) C12N 5/0783 (2010.01) A61P 35/00 (2006.01)**
[25] EN
[54] **EXPANSION PROCESSES AND AGENTS FOR TUMOR INFILTRATING LYMPHOCYTES**
[54] **PROCESSUS D'EXPANSION ET AGENTS POUR LYMPHOCYTES INFILTRANT LA TUMEUR**
[72] CUBAS, RAFAEL, US
[72] ZHANG, YONGLIANG, US
[72] YUHAS, ANDREW, US
[72] MACHIN, MARCUS, US
[71] IOVANCE BIOTHERAPEUTICS, INC., US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/076966)
[87] (WO2023/049862)
[30] US (63/248,350) 2021-09-24
[30] US (63/249,459) 2021-09-28
[30] US (63/304,361) 2022-01-28

[21] **3,232,702**
[13] A1
[51] **Int.Cl. C12Q 1/6816 (2018.01)**
[25] EN
[54] **NUCLEIC ACID DETECTION**
[54] **DETECTION D'ACIDES NUCLEIQUES**
[72] MEERSSEMAN, GEERT, BE
[72] ROLLO, SERENA, BE
[72] VERGAUWE, NICLOAS, BE
[71] MIDIAGNOSTICS NV, BE
[85] 2024-03-21
[86] 2022-09-22 (PCT/EP2022/076362)
[87] (WO2023/046829)
[30] EP (21198450.5) 2021-09-23

[21] **3,232,705**
[13] A1
[51] **Int.Cl. B41C 1/02 (2006.01) B29C 45/37 (2006.01) B44B 5/00 (2006.01) B41C 1/05 (2006.01)**
[25] EN
[54] **METHOD FOR ENGRAVING CODE PATTERNS IN A SOLID PIECE'S TOOL SURFACE**
[54] **PROCEDE DE GRAVURE DE MOTIFS DE CODE DANS UNE SURFACE D'OUTIL D'UNE PIECE SOLIDE**
[72] BOEGLI, CHARLES, CH
[72] DUMITRU, GABRIEL, CH
[71] BOEGLI-GRAVURES SA, CH
[85] 2024-03-21
[86] 2022-10-27 (PCT/IB2022/060329)
[87] (WO2023/079418)
[30] EP (21206752.4) 2021-11-05

[21] **3,232,708**
[13] A1
[51] **Int.Cl. C07C 291/04 (2006.01) C07C 213/02 (2006.01) C07C 213/06 (2006.01) C07C 215/50 (2006.01) C07C 217/58 (2006.01) C07D 207/46 (2006.01) C07D 211/94 (2006.01) C07D 295/24 (2006.01)**
[25] EN
[54] **NOVEL AMINE-N-OXIDE COMPOUNDS**
[54] **NOUVEAUX COMPOSES AMINE-N-OXYDE**
[72] BARTA WEISSERT, KATALIN, AT
[72] HOCHEGGER, MARKUS, AT
[72] BALINT, FRIDRICH, NL
[71] KARL FRANZENS UNIVERSITAT GRAZ, AT
[71] RIJKSUNIVERSITEIT GRONINGEN, NL
[85] 2024-03-21
[86] 2022-09-21 (PCT/EP2022/076255)
[87] (WO2023/046768)
[30] EP (21198124.6) 2021-09-21

[21] **3,232,710**
[13] A1
[51] **Int.Cl. C07C 309/24 (2006.01)**
[25] EN
[54] **NOVEL SULFONATE COMPOUNDS**
[54] **NOUVEAUX COMPOSES SULFONATES**
[72] BARTA WEISSERT, KATALIN, AT
[72] HOCHEGGER, MARKUS, AT
[72] BALINT, FRIDRICH, NL
[71] KARL FRANZENS UNIVERSITAT GRAZ, AT
[71] RIJKSUNIVERSITEIT GRONINGEN, NL
[85] 2024-03-21
[86] 2022-09-21 (PCT/EP2022/076252)
[87] (WO2023/046766)
[30] EP (21198127.9) 2021-09-21

[21] **3,232,711**
[13] A1
[51] **Int.Cl. A01N 63/22 (2020.01) A01N 63/27 (2020.01) C05F 11/08 (2006.01)**
[25] EN
[54] **HALOTOLERANT BACTERIAL STRAINS AS BIO-FERTILIZER WITH GROWTH-PROMOTING AND ABIOTIC STRESS ALLEVIATION BENEFITS FOR PLANTS AND APPLICATION THEREOF**
[54] **SOUCHES BACTERIENNES HALOTOLERANTES UTILISEES EN TANT QUE BIO-FERTILISANT AYANT DES AVANTAGES DE FAVORISATION DE LA CROISSANCE ET DE SOULAGEMENT DU STRESS ABIOTIQUE POUR DES PLANTES ET LEUR APPLICATIO**
[72] SAHIN, FIKRETTIN, TR
[72] BAKELLI, AISSA, DZ
[72] YILDIZ, MERIAM BOURI, TR
[71] YEDITEPE UNIVERSITESI, TR
[85] 2024-03-21
[86] 2021-09-21 (PCT/TR2021/050967)
[87] (WO2023/048659)

[21] **3,232,715**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61B 1/00 (2006.01) A61B 17/00 (2006.01) A61B 34/10 (2016.01) A61B 34/20 (2016.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR ANALYZING EXAMINATION QUALITY FOR AN ENDOSCOPIC PROCEDURE**
[54] **SYSTEMES ET PROCEDES MIS EN ?UVRE PAR ORDINATEUR POUR ANALYSER UNE QUALITE D'EXAMEN POUR UNE INTERVENTION ENDOSCOPIQUE**
[72] CHERUBINI, ANDREA, IE
[72] SALVAGNINI, PIETRO, IE
[72] NGO DINH, NHAN, IE
[71] COSMO ARTIFICIAL INTELLIGENCE - AL LIMITED, IE
[85] 2024-03-21
[86] 2022-10-07 (PCT/IB2022/059632)
[87] (WO2023/057986)
[30] US (63/253,700) 2021-10-08

[21] **3,232,716**
[13] A1
[51] **Int.Cl. A23L 11/30 (2016.01)**
[25] FR
[54] **METHOD FOR REDUCING THE BITTERNESS OF A LEGUMINOUS PROTEIN**
[54] **METHODE DE REDUCTION DE L'AMERTUME D'UNE PROTEINE DE LEGUMINEUSE**
[72] LAROCHE, CHRISTOPHE, FR
[72] LECOCQ, ALINE, FR
[72] FARDIN, GUILLAUME, FR
[71] ROQUETTE FRERES, FR
[85] 2024-03-21
[86] 2022-09-21 (PCT/EP2022/025437)
[87] (WO2023/046318)
[30] FR (2110088) 2021-09-24

[21] **3,232,717**
[13] A1
[51] **Int.Cl. B29D 30/00 (2006.01) G01N 21/552 (2014.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CONTROLLING THE MANUFACTURE OF RUBBER PRODUCTS IN RESPONSE TO THE PHYSICOCHEMICAL PROPERTIES OF A RUBBER MIXTURE**
[54] **PROCEDE ET SYSTEME DE CONTROLE DE FABRICATION DE PRODUITS CAOUTCHOUTEUX EN REPONSE AUX PROPRIETES PHYSICO-CHIMIQUES D'UN MELANGE CAOUTCHOUTEUX**
[72] MONTOY, AURELIEN, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-03-21
[86] 2022-11-10 (PCT/EP2022/081479)
[87] (WO2023/088778)
[30] FR (FR2112099) 2021-11-16

[21] **3,232,718**
[13] A1
[51] **Int.Cl. B24B 3/54 (2006.01) B24B 3/36 (2006.01) B24B 3/40 (2006.01)**
[25] EN
[54] **SHARPENER WITH SWING ARM ABRASIVE ASSEMBLY**
[54] **AIGUISEUR COMPRENANT ENSEMBLE ABRASIF A BRAS OSCILLANT**
[72] BAKER, STEVEN L., US
[72] MACFARLANE, CONNER S., US
[72] ZACHARIASEN, JOSEPH T., US
[72] DOVEL, DANIEL T., US
[72] CAMPBELL, TRAVIS, US
[71] DAREX, LLC, US
[85] 2024-03-21
[86] 2021-09-21 (PCT/US2021/051292)
[87] (WO2023/048700)

[21] **3,232,719**
[13] A1
[51] **Int.Cl. C07K 14/005 (2006.01) A61K 47/10 (2017.01) A61K 47/20 (2006.01) A61K 47/26 (2006.01) A61P 31/14 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **SARS-COV-2 RNA VACCINE COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS DE VACCIN A ARN SRAS-COV-2 ET PROCEDES D'UTILISATION**
[72] REED, STEVEN GREGORY, US
[72] CARTER, DARRICK ALBERT, US
[72] KHANDHAR, AMIT PRAFUL, US
[72] DUTHIE, MALCOLM S., US
[72] BERGLUND, LARS PETER ASKEL, US
[72] ERASMUS, JESSE, US
[72] BERUBE, BRYAN, US
[72] ARCHER, JACOB FREEMAN, US
[71] HDT BIO CORP., US
[85] 2024-03-21
[86] 2022-01-24 (PCT/US2022/013513)
[87] (WO2023/048759)
[30] US (63/247,169) 2021-09-22
[30] US (63/297,397) 2022-01-07

[21] **3,232,720**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) G01R 33/028 (2006.01) G01R 33/34 (2006.01) G02B 1/02 (2006.01)**
[25] EN
[54] **PORTABLE MAGNETIC RESONANCE IMAGER**
[54] **IMAGEUR A RESONANCE MAGNETIQUE PORTABLE**
[72] CASE, JR. RUSSELL L., US
[71] MICROTESLA SYSTEMS, INC., US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/044495)
[87] (WO2023/049320)
[30] US (63/248,090) 2021-09-24

[21] **3,232,721**
[13] A1
[51] **Int.Cl. H01J 49/02 (2006.01) H03F 1/34 (2006.01) H03F 3/45 (2006.01)**
[25] EN
[54] **BASELINE RESTORATION CIRCUIT**
[54] **CIRCUIT DE RESTAURATION DE LIGNE DE BASE**
[72] SOUCHKOV, VITALI, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2024-03-21
[86] 2022-08-29 (PCT/US2022/041875)
[87] (WO2023/048903)
[30] US (63/246,395) 2021-09-21

[21] **3,232,722**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12N 15/62 (2006.01) C12N 15/67 (2006.01) C12N 15/70 (2006.01) C12P 21/02 (2006.01) C40B 40/08 (2006.01)**
[25] EN
[54] **DNA CONSTRUCTS AND HOST CELLS FOR EXPRESSING RECOMBINANT PROTEIN**
[54] **CONSTRUCTIONS D'ADN ET CELLULES HOTES POUR EXPRIMER UNE PROTEINE RECOMBINEE**
[72] MIRZADEH, KIAVASH, SE
[72] VIKSTROM, DAVID, SE
[72] ISMAIL, NURZIAN, SE
[72] SAMUELSON, PATRIK, SE
[72] BARASZKIEWICZ, MARIUSZ, SE
[72] SALIH, TAGRID, SE
[72] SZEKER, KATHLEEN, DE
[72] CHUI, DANIEL, SE
[72] GUDISE, SANTHOSH, SE
[72] EDEBRINK, PER, SE
[72] KADOW, MARIA, SE
[72] STEFANSSON, KARIN, SE
[72] STRANDBERG, KRISTIN, SE
[71] XBRANE BIOPHARMA AB, SE
[85] 2024-03-21
[86] 2022-09-23 (PCT/EP2022/076591)
[87] (WO2023/046930)
[30] SE (2130258-3) 2021-09-24
[30] SE (2130259-1) 2021-09-24
[30] SE (2130261-7) 2021-09-24
[30] SE (2130263-3) 2021-09-24
[30] SE (2130264-1) 2021-09-24
[30] SE (2130265-8) 2021-09-24

[21] **3,232,723**
[13] A1
[51] **Int.Cl. H04N 19/513 (2014.01) H04N 19/577 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR DMVR WITH BI-PREDICTION WEIGHTING**
[54] **PROCEDES ET APPAREIL POUR DMVR AVEC PONDERATION DE BI-PREDICTION**
[72] BORDES, PHILIPPE, FR
[72] CHEN, YA, FR
[72] GALPIN, FRANCK, FR
[72] LE LEANNEC, FABRICE, FR
[72] ROBERT, ANTOINE, FR
[71] INTERDIGITAL CE PATENT HOLDINGS, SAS, FR
[85] 2024-03-21
[86] 2022-09-23 (PCT/EP2022/076564)
[87] (WO2023/046917)
[30] EP (21306317.5) 2021-09-24
[30] EP (21306874.5) 2021-12-21

[21] **3,232,724**
[13] A1
[51] **Int.Cl. A61K 38/43 (2006.01) A61K 38/16 (2006.01) A61K 38/17 (2006.01) C12N 15/86 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD OF MITIGATION OF INJURIES CAUSED BY SYSTEMIC GENOTOXIC STRESS**
[54] **PROCEDE D'ATTENUATION DE LESIONS PROVOQUEES PAR UNE CONTRAINTE GENOTOXIQUE SYSTEMIQUE**
[72] GUDKOV, ANDREI, US
[72] BRACKETT, CRAIG, US
[71] HEALTH RESEARCH, INC., US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/076879)
[87] (WO2023/049810)
[30] US (63/247,116) 2021-09-22

[21] **3,232,725**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) B82Y 5/00 (2011.01) A61K 9/127 (2006.01) A61K 47/24 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **CANCER THERAPY COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS DE THERAPIE ANTICANCEREUSE ET LEURS UTILISATIONS**
[72] REED, STEVEN GREGORY, US
[72] CARTER, DARRICK ALBERT, US
[72] DUTHIE, MALCOLM SCOTT, US
[72] BERGLUND, LARS PETER AKSEL, US
[72] ERASMUS, JESSE HONG-SAE, US
[72] KIM, JIHO, US
[71] HDT BIO CORP., US
[85] 2024-03-21
[86] 2022-09-12 (PCT/US2022/076304)
[87] (WO2023/049636)
[30] US (63/247,167) 2021-09-22
[30] US (63/302,360) 2022-01-24

[21] **3,232,726**
[13] A1
[51] **Int.Cl. A61K 47/64 (2017.01) A61P 3/10 (2006.01)**
[25] EN
[54] **CONJUGATES OF GLUCAGON AND AMPK ACTIVATORS**
[54] **CONJUGUES DE GLUCAGON ET D'ACTIVATEURS DE L'AMPK**
[72] CLEMMENSEN, CHRISTOFFER, DK
[72] KLEIN, ANDERS BUE, DK
[72] PETERSEN, JONAS ODGAARD, DK
[72] SAKAMOTO, KEI, DK
[71] KOBENHAVNS UNIVERSITET, DK
[85] 2024-03-21
[86] 2022-09-28 (PCT/EP2022/076966)
[87] (WO2023/052415)
[30] EP (21199346.4) 2021-09-28

[21] **3,232,727**
[13] A1
[51] **Int.Cl. C30B 30/02 (2006.01) C01B 32/184 (2017.01) C30B 1/02 (2006.01) C30B 1/12 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCING GRAPHENE**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION DE GRAPHENE**
[72] MANCEVSKI, VLADIMIR, US
[72] LUONG, DUY XUAN, CA
[72] COOKSEY, TYLER, CA
[72] WILLIAMS, JOHN, CA
[72] MAZOR, EYTAN, CA
[72] ZHANG, ZHIYONG, CA
[72] JAY, BENNY, CA
[71] UNIVERSAL MATTER INC., CA
[85] 2024-03-21
[86] 2022-09-21 (PCT/CA2022/051406)
[87] (WO2023/044569)
[30] US (63/246,424) 2021-09-21

[21] **3,232,728**
[13] A1
[51] **Int.Cl. A61M 25/10 (2013.01)**
[25] EN
[54] **DOUBLE-BALLOON CATHETER**
[54] **CATHETER A DOUBLE BALLONNET**
[72] CHEN, YEN-I, CA
[72] BESSISSOW, ALI, CA
[72] MEHRVAR, CINA, CA
[72] MIHALIK, TERESA ANN, CA
[72] TURLAND, CALVIN, CA
[72] THIBAULT, BENOIT, CA
[72] TREMBLAY, ANDRE, CA
[71] CHESS MEDICAL INC., CA
[85] 2024-03-21
[86] 2022-09-21 (PCT/CA2022/051398)
[87] (WO2023/044564)
[30] US (63/247,131) 2021-09-22

[21] **3,232,729**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/00 (2006.01) A61F 2/82 (2013.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR A VALVE REPLACEMENT**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR UN REMPLACEMENT DE VALVE**
[72] SANDS, JULIE LOGAN, US
[72] PERRY, KENNETH EUGENE, US
[72] ZADOR, ANTHONY ZOLTAN, US
[72] OPALSKI, SAMANTHA, US
[71] REVALVE SOLUTIONS INC, US
[85] 2024-03-21
[86] 2022-10-28 (PCT/US2022/048304)
[87] (WO2023/059941)
[30] US (63/407,624) 2022-09-16
[30] US (PCT/US2022/015360) 2022-02-04

[21] **3,232,730**
[13] A1
[51] **Int.Cl. F41B 15/04 (2006.01) F41H 13/00 (2006.01) H05C 1/04 (2006.01)**
[25] EN
[54] **WEAPON WITH INDICATOR ACTIVATED BASED ON POSITION**
[54] **ARME AVEC INDICATEUR ACTIVE SUR LA BASE D'UNE POSITION**
[72] GISH, MICHAEL E., US
[71] AXON ENTERPRISE, INC., US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/044458)
[87] (WO2023/172296)
[30] US (63/247,303) 2021-09-22

[21] **3,232,731**
[13] A1
[51] **Int.Cl. A01H 1/00 (2006.01) A01H 6/46 (2018.01) A01H 5/10 (2018.01) C12N 9/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **PLANTS WITH IMPROVED PROPERTIES**
[54] **PLANTES PRESENTANT DES PROPRIETES AMELIOREES**
[72] SCHEIRLINCK, MARIE-THERESE, BE
[72] COEN, FRANK, BE
[72] JACOBS, JONNY, BE
[72] SCHMIDT, RALF-CHRISTIAN, BE
[71] BASF SE, DE
[85] 2024-03-21
[86] 2022-09-29 (PCT/EP2022/077216)
[87] (WO2023/052561)
[30] EP (21200484.0) 2021-10-01

[21] **3,232,732**
[13] A1
[51] **Int.Cl. C08L 91/06 (2006.01) B27K 3/50 (2006.01) C08J 3/03 (2006.01)**
[25] EN
[54] **HYDROPHOBING EMULSION COMPRISING TRIGLYCERIDE WAX**
[54] **EMULSION A ACTION HYDROPHOBE COMPRENANT UNE CIRE DE TRIGLYCERIDE**
[72] SMEETS, NIELS MATHIEU BARBARA, CA
[72] DEBESE, HENDYA, US
[72] SINNIGE, LAURENCE ANTHONY, CA
[72] HUM, REBECCA KATIE, CA
[71] WALKER INDUSTRIES HOLDINGS LIMITED, CA
[85] 2024-03-21
[86] 2022-09-21 (PCT/CA2022/051400)
[87] (WO2023/044566)
[30] US (63/261,479) 2021-09-22

[21] **3,232,733**
[13] A1
[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6876 (2018.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR SAMPLE ANALYSIS**
[54] **PROCEDES ET SYSTEMES D'ANALYSE D'ECHANTILLON**
[72] PATEL, PRANAV, US
[72] KABOUZI, YASSINE, US
[72] SADRI, AMIR, US
[72] JOUVENOT, YANN, US
[71] N6 TEC, INC., US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/044540)
[87] (WO2023/049349)
[30] US (63/247,397) 2021-09-23

[21] **3,232,734**
[13] A1
[51] **Int.Cl. A01N 43/54 (2006.01) A01N 43/653 (2006.01)**
[25] EN
[54] **CONCENTRATED FUNGICIDAL COMPOSITION OF AZOXYSTROBIN, CYPROCONAZOLE AND CHLOROTHALONIL OF HIGH LOAD, FORMULATIONS AND METHOD TO CONTROL ASIAN RUST AND OTHER DISEASES**
[54] **COMPOSITION FONGICIDE CONCENTREE D'AZOXYSTROBINE, DE CYPROCONAZOLE ET DE CHLOROTHALONIL DE CHARGE ELEVEE, FORMULATIONS ET PROCEDE POUR LUTTER CONTRE LA ROUILLE ASIATIQUE ET D'AUTRES MALADIE**
[72] FERNANDO VELHO, GILBERTO, BR
[72] BALBAO CLEMENTE BUENO DE OLIVEIRA, THAIS, BR
[72] ESTEVAO BRAGION DE TOLEDO, ROBERTO, BR
[72] GONCALVES ALONSO, DIEGO, BR
[72] FELICIANO, RICHARD, BR
[72] CAMPOS ARAUJO, LEONARDO, BR
[72] DE OLIVEIRA BIAZOTTO, FLAVIA, BR
[72] ANTONIO DREBES DA CUNHA, MARCO, BR
[71] OURO FINO QUIMICA S.A., BR
[85] 2024-03-21
[86] 2022-09-14 (PCT/BR2022/050366)
[87] (WO2023/044548)
[30] BR (1020210189410) 2021-09-22

[21] **3,232,735**
[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) G01N 21/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING PHOTOACTIVATABLE PHARMACEUTICAL AGENTS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE D'AGENTS PHARMACEUTIQUES PHOTOACTIVABLES**
[72] AJIEREN, HANS CHIWUIKE, US
[72] IRAZOQUI, PEDRO, US
[71] ELI LILLY AND COMPANY, US
[85] 2024-03-21
[86] 2022-10-14 (PCT/US2022/046639)
[87] (WO2023/069306)
[30] US (63/270,213) 2021-10-21

[21] **3,232,736**
[13] A1
[51] **Int.Cl. G06Q 50/10 (2012.01) G06T 13/80 (2011.01) G06T 15/04 (2011.01) G06T 7/90 (2017.01) G06F 16/61 (2019.01) G06F 16/63 (2019.01) G06F 16/68 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING PAINT COLORS BASED ON MUSIC**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR DES COULEURS DE PEINTURE EN SE BASANT SUR LA MUSIQUE**
[72] MARISSEN, BERT, US
[72] REGALO, BRUNO, US
[72] MCMURRAY, MARIANGELA, US
[72] WILKES, NATHANIEL, US
[72] KARLEY, JASON, US
[72] O'KEEFE, JEFFREY L., US
[72] CACERES, LUZ MARIA, US
[72] CROSS, ZACHARY, US
[72] SALIU, ALEX, AU
[72] WINTER, ZACHARY, US
[72] LOPEZ, ANDY, US
[72] ALLEN, JODI, US
[71] BEHR PROCESS CORPORATION, US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/044314)
[87] (WO2023/049227)
[30] US (63/247,076) 2021-09-22
[30] US (17/949,611) 2022-09-21

[21] **3,232,737**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING CAG REPEAT DISEASES**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE MALADIES A REPETITION CAG**
[72] JENSIK, PHILIP J., US
[72] GAGNON, KEITH T., US
[72] COREY, DAVID, US
[72] DE KLERK, ELEONORA, US
[72] BLEWETT, MEGAN, US
[72] KOTTERMAN, MELISSA A., US
[71] IRIS MEDICINE, INC., US
[71] BOARD OF TRUSTEES OF SOUTHERN ILLINOIS UNIVERSITY, US
[85] 2024-03-21
[86] 2022-10-05 (PCT/US2022/077572)
[87] (WO2023/060104)
[30] US (63/253,070) 2021-10-06
[30] US (63/339,363) 2022-05-06

[21] **3,232,738**
[13] A1
[51] **Int.Cl. D21D 1/20 (2006.01) D21D 1/22 (2006.01) D21D 1/30 (2006.01)**
[25] EN
[54] **REFINER FILLING PIECE HAVING MULTIPLE COATINGS ON BARS**
[54] **PIECE DE REMPLISSAGE DE RAFFINEUR COMPORTANT DE MULTIPLES REVETEMENTS SUR DES BARRES**
[72] PATERSON, DANIEL, CA
[72] HEYMER, JENS O., CA
[72] DEFOE, RONALD J., US
[72] GOODING, ROBERT WILLIAM, CA
[71] AIKAWA FIBER TECHNOLOGIES INC., CA
[85] 2024-03-21
[86] 2022-12-07 (PCT/CA2022/000067)
[87] (WO2023/102642)
[30] DE (10 2021 132 158.1) 2021-12-07

[21] **3,232,739**
[13] A1
[51] **Int.Cl. A23L 21/25 (2016.01) A61K 35/644 (2015.01) A23L 33/105 (2016.01) A61K 36/61 (2006.01) A61P 3/04 (2006.01) A61P 3/06 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **A METHOD OF TREATING CANCER**
[54] **METHODE DE TRAITEMENT DU CANCER**
[72] CHENG, YUEN YEE, AU
[72] VUONG, QUAN VAN, AU
[72] QIN, KARL LIJUN, AU
[71] NATIVE INGREDIENTS AND HEALTH RESEARCH ORGANISATION PTY LTD, AU
[85] 2024-03-21
[86] 2022-09-30 (PCT/AU2022/051174)
[87] (WO2023/049970)
[30] AU (2021903147) 2021-10-01

[21] **3,232,740**
[13] A1
[51] **Int.Cl. C01B 15/037 (2006.01) A61K 8/22 (2006.01)**
[25] EN
[54] **STABILIZED HYDROGEN PEROXIDE**
[54] **PEROXYDE D'HYDROGENE STABILISE**
[72] VERBURG, THOMAS HENDRIK JOHANNES, NL
[71] CINDRO HOLDING B.V., NL
[85] 2024-03-21
[86] 2022-09-22 (PCT/NL2022/050535)
[87] (WO2023/048569)
[30] NL (2029251) 2021-09-24

[21] **3,232,741**
[13] A1
[51] **Int.Cl. F24D 3/00 (2022.01) F24D 3/10 (2006.01)**
[25] EN
[54] **MODULAR HYDRONIC HEATING SYSTEM CORE**
[54] **NOYAU DE SYSTEME HYDRONIQUE MODULAIRE DE CHAUFFAGE**
[72] DELCONTE, MICHAEL WEAVER, US
[72] DUGUAY, ERIC J., US
[72] HALLOCK, TODD S., US
[72] PELLETIER, NICHOLAS JAMES, US
[72] THOMPSON, GREGORY SAMUEL, US
[72] REILLY, PATRICK A., US
[71] F.W. WEBB COMPANY, US
[85] 2024-03-21
[86] 2022-08-14 (PCT/US2022/074947)
[87] (WO2023/059955)
[30] US (17/495,159) 2021-10-06

[21] **3,232,742**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) A61P 3/00 (2006.01) C12N 9/16 (2006.01) C12N 15/11 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **GENE EDITING OF PCSK9 OR ANGPTL3 AND COMPOSITIONS AND METHODS OF USING SAME FOR TREATMENT OF DISEASE**
[54] **EDITION GENIQUE DE PCSK9 OU D'ANGPTL3 ET LEURS COMPOSITIONS ET METHODES D'UTILISATION POUR LE TRAITEMENT D'UNE MALADIE**
[72] BELLINGER, ANDREW M., US
[72] RAJEEV, KALLANTHOTTATHIL G., US
[72] REISS, CAROLINE, US
[72] DENIZIO, JAMIE, US
[72] JAYARAM, HARIHARAN, US
[72] IYER, SOWMYA, US
[72] DE ALMEIDA PINTO GARCIA, SARA CRISTINA, US
[72] WANG, KUI, US
[72] CHADWICK, ALEXANDRA, US
[72] CHENG, CHRISTOPHER, US
[72] LEE, RICHARD GLENN, US
[72] ROHDE, ELLEN, US
[71] VERVE THERAPEUTICS, INC., US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/044453)
[87] (WO2023/049299)

[21] **3,232,743**
[13] A1
[51] **Int.Cl. A61K 31/7115 (2006.01) C12N 15/113 (2010.01) A61P 9/10 (2006.01) C12N 5/10 (2006.01) C12N 15/83 (2006.01)**
[25] EN
[54] **POLYNUCLEIC ACID MOLECULES TARGETING PCSK9 AND USES THEREOF**
[54] **MOLECULES D'ACIDE POLYNUCLEIQUE CIBLANT PCSK9 ET LEURS UTILISATIONS**
[72] BRADSHAW, CURT, US
[71] SIRIUS THERAPEUTICS, INC., US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/044444)
[87] (WO2023/049294)
[30] US (63/247,677) 2021-09-23
[30] US (63/337,958) 2022-05-03

[21] **3,232,744**
[13] A1
[51] **Int.Cl. A61F 6/08 (2006.01) A61F 6/16 (2006.01) A61M 29/02 (2006.01)**
[25] EN
[54] **VAGINAL DILATOR WITH AUTOMATED EXPANSION SYSTEM AND TELEMEDICINE SYSTEM**
[54] **DILATATEUR VAGINAL A SYSTEME D'EXPANSION AUTOMATIQUE ET SYSTEME DE TELEMEDECINE**
[72] SIMOES-TORIGOE, RAFAELA, US
[72] MAYADEV, JYOTI, US
[72] MAKALE, MILAN, US
[72] MORRIS, KARCHER, US
[72] KOHANFARS, MATTHEW, US
[72] CHEN, PO-HAN, US
[72] HU, SHENGFAN, US
[72] LI, YU, US
[72] WILLIAMSON, CASEY, US
[72] TALKE, FRANK, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-03-21
[86] 2022-10-19 (PCT/US2022/047078)
[87] (WO2023/069477)
[30] US (63/257,285) 2021-10-19

[21] **3,232,745**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **COMPRESSED CARTOMIZER MATRIX FOR IMPROVED FLAVOR DELIVERY**
[54] **MATRICE DE CARTOMISEUR COMPRIMEE POUR UNE MEILLEURE DISTRIBUTION D'AROME**
[72] WONG, TIMOTHY, CA
[71] 2792684 ONTARIO INC., CA
[71] WONG, TIMOTHY, CA
[85] 2024-03-21
[86] 2022-09-21 (PCT/IB2022/058940)
[87] (WO2023/047313)
[30] US (17/482,243) 2021-09-22

[21] **3,232,746**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/44 (2020.01)**
[25] EN
[54] **COMPRESSED CARTOMIZER MATRIX FOR IMPROVED WICKING**
[54] **MATRICE DE CARTOMISEUR COMPRIMEE POUR EFFET DE MECHE AMELIORE**
[72] WONG, TIMOTHY, CA
[71] 2792684 ONTARIO INC., CA
[71] WONG, TIMOTHY, CA
[85] 2024-03-21
[86] 2022-09-21 (PCT/IB2022/058939)
[87] (WO2023/047312)
[30] US (17/482,251) 2021-09-22

[21] **3,232,747**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **PARTIALLY COMPRESSED CARTOMIZER MATRIX**
[54] **MATRICE DE CARTOMISEUR A COMPRESSION PARTIELLE**
[72] WONG, TIMOTHY, CA
[72] YU, ANNIE, CA
[71] 2792684 ONTARIO INC., CA
[71] WONG, TIMOTHY, CA
[71] YU, ANNIE, CA
[85] 2024-03-21
[86] 2022-09-21 (PCT/IB2022/058942)
[87] (WO2023/047315)
[30] US (17/482,002) 2021-09-22

[21] **3,232,748**
[13] A1
[51] **Int.Cl. A61C 7/00 (2006.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B29C 64/171 (2017.01) A61K 6/60 (2020.01) A61K 6/62 (2020.01) A61K 6/887 (2020.01) A61C 5/00 (2017.01) C08K 5/09 (2006.01) C08K 5/101 (2006.01) C08L 33/08 (2006.01) C08L 33/10 (2006.01) A61C 7/08 (2006.01)**
[25] EN
[54] **3D PRINTING RESIN WITH SEPARATION EFFECT**
[54] **RESINE D'IMPRESSION 3D AVEC EFFET DE SEPARATION**
[72] KLARE, MARTIN, DE
[71] PRO3DURE MEDICAL GMBH, DE
[85] 2024-03-21
[86] 2022-09-22 (PCT/EP2022/076450)
[87] (WO2023/046869)
[30] EP (21198394.5) 2021-09-22

[21] **3,232,749**
[13] A1
[51] **Int.Cl. G01N 21/39 (2006.01) G01N 21/3504 (2014.01) G01N 21/27 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SIMULTANEOUS HIGH-SENSITIVITY MEASUREMENT OF METHANE AND ETHANE VIA LASER ABSORPTION SPECTROSCOPY IN AN OPEN-AIR CONFIGURATION**
[54] **SYSTEME ET PROCEDE DE MESURE SIMULTANEE A HAUTE SENSIBILITE DE METHANE ET D'ETHANE PAR SPECTROSCOPIE D'ABSORPTION LASER DANS UNE CONFIGURATION EN PLEIN AIR**
[72] FRISH, MICHAEL B., US
[72] CHEN, SHIN-JUH, US
[72] AUBUT, NICHOLAS F., US
[72] WAINNER, RICHARD T., US
[71] HEATH CONSULTANTS INCORPORATED, US
[85] 2024-03-22
[86] 2022-10-04 (PCT/US2022/045667)
[87] (WO2023/059632)
[30] US (63/251,949) 2021-10-04
[30] US (17/959,798) 2022-10-04

[21] **3,232,750**
[13] A1
[51] **Int.Cl. A61M 5/32 (2006.01) A61M 5/178 (2006.01)**
[25] EN
[54] **MEDICAL SYRINGE**
[54] **SERINGUE MEDICALE**
[72] SHAW, THOMAS J., US
[72] SMALL, MARK, US
[71] RETRACTABLE TECHNOLOGIES, INC., US
[71] SHAW, THOMAS J., US
[85] 2024-03-15
[86] 2022-10-21 (PCT/US2022/078553)
[87] (WO2023/081587)
[30] US (17/518,308) 2021-11-03

[21] **3,232,751**
[13] A1
[51] **Int.Cl. A61B 5/153 (2006.01) A61M 5/162 (2006.01) A61M 5/32 (2006.01) A61M 39/10 (2006.01) A61M 39/20 (2006.01) A61M 5/158 (2006.01)**
[25] EN
[54] **BLOOD COLLECTION DEVICE**
[54] **DISPOSITIF DE COLLECTE DE SANG**
[72] SHAW, THOMAS J., US
[72] ZHU, NI, US
[72] LARDAS, BENJAMIN JOHN, US
[71] RETRACTABLE TECHNOLOGIES, INC., US
[71] SHAW, THOMAS J., US
[85] 2024-03-15
[86] 2022-10-27 (PCT/US2022/078778)
[87] (WO2023/086735)
[30] US (17/526,918) 2021-11-15

[21] **3,232,753**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/20 (2006.01) A61K 9/24 (2006.01)**
[25] EN
[54] **MULTI-LAYERED DEXTROSE TABLETS**
[54] **COMPRIMES DE DEXTROSE MULTICOUCHES**
[72] WITTORFF, HELLE, DK
[71] FERTIN PHARMA A/S, DK
[85] 2024-03-18
[86] 2022-10-12 (PCT/DK2022/050215)
[87] (WO2023/061544)
[30] US (17/502,322) 2021-10-15

[21] **3,232,754**
[13] A1
[51] **Int.Cl. C08F 210/06 (2006.01) C08F 4/659 (2006.01) C08L 23/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING A PROPYLENE COPOLYMER**
[54] **PROCEDE DE PRODUCTION D'UN COPOLYMERE DE PROPYLENE**
[72] LESKINEN, PAULI, FI
[72] WANG, JINGBO, AT
[72] GAHLEITNER, MARKUS, AT
[72] BERNREITNER, KLAUS, AT
[72] KUPAREVA, ANTONINA, FI
[71] BOREALIS AG, AT
[85] 2024-03-18
[86] 2022-09-15 (PCT/EP2022/075697)
[87] (WO2023/046573)
[30] EP (21198601.3) 2021-09-23

[21] **3,232,755**
[13] A1
[51] **Int.Cl. A23C 11/08 (2006.01) A23L 29/244 (2016.01) A23F 5/40 (2006.01) A23L 2/52 (2006.01)**
[25] EN
[54] **A NON-FAT CREAMER POWDER, AND A METHOD OF MAKING THE SAME**
[54] **POUDRE DE SUCCEDANE DE CREME SANS MATIERE GRASSE ET PROCEDE DE FABRICATION DE CELLE-CI**
[72] HARRIS, GAYLE, NL
[72] SAVILLE, LAUREN AMY, GB
[72] FOURIE, BLYTHE FRANCES, GB
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL
[85] 2024-03-18
[86] 2022-09-22 (PCT/EP2022/076397)
[87] (WO2023/046845)
[30] GB (2113481.2) 2021-09-22

[21] **3,232,756**
[13] A1
[51] **Int.Cl. A62B 11/00 (2006.01) A62B 7/00 (2006.01) A62B 15/00 (2006.01) A62B 9/00 (2006.01)**
[25] EN
[54] **BREATHING SYSTEMS AND METHODS FOR MAKING AND USING SUCH SYSTEMS**
[54] **SYSTEMES RESPIRATOIRES ET PROCEDES DE FABRICATION ET D'UTILISATION DE TELS SYSTEMES**
[72] PERRY, TRAVIS, US
[71] TURN2 SPECIALTY COMPANIES, LLC, US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/043980)
[87] (WO2023/049071)
[30] US (63/246,422) 2021-09-21

[21] **3,232,757**
[13] A1
[51] **Int.Cl. G01R 21/00 (2006.01) G06Q 50/06 (2012.01) G16Z 99/00 (2019.01) G01R 19/25 (2006.01) H04L 12/28 (2006.01)**
[25] EN
[54] **RELATIVE ADAPTIVE ENCODING**
[54] **CODAGE ADAPTATIF RELATIF**
[72] AUSTIN, MICHEAL M., US
[72] BROWN, KODY SHOOK, US
[71] VUTILITY, INC., US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/044033)
[87] (WO2023/044133)
[30] US (63/261,401) 2021-09-20

[21] **3,232,758**
[13] A1
[51] **Int.Cl. B01D 11/04 (2006.01) B01D 12/00 (2006.01) B01D 35/00 (2006.01) G01N 1/40 (2006.01) G01N 15/06 (2024.01) G01N 15/08 (2006.01) G01N 1/10 (2006.01)**
[25] EN
[54] **DETERMINATION OF PORE SIZE OF A MICROFILTER**
[54] **DETERMINATION DE LA TAILLE DES PORES D'UN MICROFILTRE**
[72] HAMMOND, MATTHEW, US
[72] ZHOU, XIAOZHU, US
[72] EU, MINGDA, US
[71] AMGEN INC., US
[85] 2024-03-18
[86] 2022-10-05 (PCT/US2022/077622)
[87] (WO2023/064697)
[30] US (63/254,468) 2021-10-11

[21] **3,232,759**
[13] A1
[51] **Int.Cl. F25D 27/00 (2006.01) F25D 25/02 (2006.01)**
[25] EN
[54] **ILLUMINATED SHELF ASSEMBLIES**
[54] **ENSEMBLES ETAGERES ECLAIRES**
[72] MCMILLIN, MATTHEW, US
[72] YOCHUM, JASON ROBERT, US
[71] SSW ADVANCED TECHNOLOGIES, LLC, US
[85] 2024-03-18
[86] 2022-10-12 (PCT/US2022/046373)
[87] (WO2023/064331)
[30] US (63/256,157) 2021-10-15

[21] **3,232,760**
[13] A1
[51] **Int.Cl. G06T 7/60 (2017.01) G06N 20/00 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR USE IN PROCESSING IMAGES RELATED TO CROPS**
[54] **PROCEDES ET SYSTEMES DESTINES A ETRE UTILISES DANS LE TRAITEMENT D'IMAGES ASSOCIEES A DES CULTURES**
[72] BRAUER, ROBERT, US
[72] DUTTA, BHASKAR, US
[72] HASAN, MOHAMMAD ALFI, US
[72] PARMLEY, KYLE, US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2024-03-18
[86] 2022-09-29 (PCT/US2022/045182)
[87] (WO2023/055897)
[30] US (63/250,345) 2021-09-30

[21] **3,232,761**
[13] A1
[51] **Int.Cl. C08K 3/28 (2006.01) C08K 5/16 (2006.01) C08K 5/17 (2006.01) C08K 5/54 (2006.01)**
[25] EN
[54] **NO YELLOWING CATALYST COMPOSITIONS FOR AMBIENT CURE CROSSLINKABLE COPOLYMERS OF VINYL BRANCHED ESTER AND VINYL SILANE**
[54] **COMPOSITIONS DE CATALYSEURS NE JAUNISSANT PAS POUR LE DURCISSEMENT A TEMPERATURE AMBIANTE DE COPOLYMERES RETICULABLES D'ESTER RAMIFIE DE VINYLE ET DE SILANE DE VINYLE**
[72] HEYMANS, DENIS, BE
[71] HEXION INC., US
[85] 2024-03-18
[86] 2022-09-27 (PCT/US2022/044864)
[87] (WO2023/059477)
[30] EP (21075012.1) 2021-10-04

[21] **3,232,762**
[13] A1
[51] **Int.Cl. C09K 8/74 (2006.01) C09K 8/60 (2006.01) C09K 8/86 (2006.01) E21B 43/27 (2006.01)**
[25] EN
[54] **SINGLE-PHASE RETARDED ACID SYSTEMS USING AMINO ACIDS**
[54] **SYSTEMES ACIDES RETARDES MONOPHASIQUES UTILISANT DES ACIDES AMINES**
[72] ZHAO, HAIYAN, US
[72] ZIAUDDIN, MURTAZA, US
[72] ENKABABIAN, PHILIPPE, AE
[72] YUSUF, TEMILOLUWA, US
[72] ABIVIN, PATRICE, US
[72] RYAN, ABRAHAM, AE
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-18
[86] 2022-09-23 (PCT/US2022/044553)
[87] (WO2023/049360)
[30] US (63/248,223) 2021-09-24

[21] **3,232,763**
[13] A1
[51] **Int.Cl. A61K 38/45 (2006.01)**
[25] EN
[54] **KYNURENINE AMINOTRANSFERASE AND PRODUCTS THEREOF FOR THE TREATMENT OF INFLAMMATORY BOWEL DISEASES**
[54] **KYNURENINE AMINOTRANSFERASE ET PRODUITS ASSOCIES POUR LE TRAITEMENT DE MALADIES INTESTINALES INFLAMMATOIRES**
[72] SOKOL, HARRY, FR
[72] MICHAUDEL, CHLOE, FR
[72] LANGELLA, PHILIPPE, FR
[72] AUCOUTURIER, ANNE, FR
[72] BERMUDEZ, LUIS, FR
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[71] INSTITUT DES SCIENCES ET INDUSTRIES DU VIVANT ET DE L'ENVIRONNEMENT, FR
[71] SORBONNE UNIVERSITE, FR
[71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] UNIVERSITE PARIS-SACLAY, FR
[85] 2024-03-22
[86] 2022-10-04 (PCT/EP2022/077614)
[87] (WO2023/057469)
[30] EP (21306397.7) 2021-10-05

[21] **3,232,764**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **PYRROLO BENZODIAZEPINE DERIVATIVE, AND CONJUGATE, PREPARATION METHOD AND USE THEREOF**
[54] **DERIVE DE PYRROLO BENZODIAZEPINE, ET CONJUGUE, PROCEDE DE PREPARATION ET UTILISATION DE CEUX-CI**
[72] XU, JIANYAN, CN
[72] CAI, XIAOFENG, CN
[72] QU, BOLEI, CN
[72] ZHANG, YING, CN
[72] CHEN, XIAOXI, CN
[72] HE, FENG, CN
[72] TAO, WEIKANG, CN
[72] ZHU, LINGJIAN, CN
[72] HONG, MIN, CN
[72] HUANG, JIAN, CN
[72] LI, YANBING, CN
[72] XU, XIAOLANG, CN
[72] HU, ZHIPENG, CN
[72] XUE, ZHOUYANG, CN
[72] YOU, LINGFENG, CN
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-19
[86] 2022-09-30 (PCT/CN2022/123462)
[87] (WO2023/051814)
[30] CN (202111164628.1) 2021-09-30
[30] CN (202111399183.5) 2021-11-19
[30] CN (202210363759.0) 2022-04-07
[30] CN (202210836645.3) 2022-07-15

[21] **3,232,765**
[13] A1
[51] **Int.Cl. A22B 5/00 (2006.01)**
[25] EN
[54] **A CUTTING DEVICE, A SYSTEM INCLUDING A CUTTING DEVICE AND A METHOD FOR CUTTING FREE A RECTUM END PORTION OF AN ANIMAL CARCASS**
[54] **DISPOSITIF DE COUPE, SYSTEME COMPRENANT UN DISPOSITIF DE COUPE ET PROCEDE POUR LIBERER UNE PARTIE D'EXTREMITE DE RECTUM D'UNE CARCASSE D'ANIMAL**
[72] HUININK, MAARTEN CHRISTIAAN, NL
[72] UEFFING, ARNO HERMANUS MARIA, NL
[71] MAREL RED MEAT B.V., NL
[85] 2024-03-19
[86] 2022-09-28 (PCT/EP2022/076897)
[87] (WO2023/052382)
[30] EP (21199930.5) 2021-09-29

[21] **3,232,766**
[13] A1
[51] **Int.Cl. C22C 38/04 (2006.01) B32B 15/01 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C23C 2/06 (2006.01) C23C 2/40 (2006.01)**
[25] EN
[54] **COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**
[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET SON PROCEDE DE FABRICATION**
[72] WATERSCHOOT, TOM, BE
[72] RAY, ARUNIM, BE
[72] DAVID, RENALD, FR
[71] ARCELORMITTAL, LU
[85] 2024-03-19
[86] 2021-09-29 (PCT/IB2021/058916)
[87] (WO2023/052814)

[21] **3,232,767**
[13] A1
[51] **Int.Cl. A61K 36/06 (2006.01) A23L 33/105 (2016.01) A23L 33/135 (2016.01) A61K 31/4045 (2006.01) A61K 31/44 (2006.01) A61P 1/14 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **PSILOCYBIN DERIVED COMPOSITIONS AND METHODS OF USING SAME**
[54] **COMPOSITIONS DERIVEES DE PSILOCYBINE ET LEURS PROCEDES D'UTILISATION**
[72] PANAGIOTAKOPOULOS, NATALIA, US
[72] PANAGIOTAKOPOULOS, BILL, US
[72] CHARRETTE, ANDREW, US
[72] GUTHRIE, NAJLA, CA
[71] 1242753 ONTARIO INC., CA
[85] 2024-03-18
[86] 2022-09-19 (PCT/US2022/044039)
[87] (WO2023/044135)
[30] US (63/245,451) 2021-09-17

[21] **3,232,768**
[13] A1
[51] **Int.Cl. A61M 60/818 (2021.01) A61M 60/13 (2021.01) A61M 60/237 (2021.01) A61M 60/414 (2021.01) A61M 60/531 (2021.01) A61M 60/81 (2021.01) A61M 60/816 (2021.01) A61M 60/824 (2021.01) A61M 60/865 (2021.01)**
[25] EN
[54] **VENTRICULAR ASSIST DEVICE**
[54] **DISPOSITIF D'ASSISTANCE VENTRICULAIRE**
[72] TUVAL, YOSI, IL
[72] LUBINSKY, GAD, IL
[72] TROSHIN, VICTOR, IL
[72] ZEMER HAREL, HAGIT, IL
[72] FRIEDLAND, ORI, IL
[72] ROSENBLUM, DANIEL, IL
[72] ROZENFELD, AVI, IL
[71] MAGENTA MEDICAL LTD, IL
[85] 2024-03-19
[86] 2022-08-30 (PCT/IB2022/058101)
[87] (WO2023/062453)
[30] US (63/254,321) 2021-10-11
[30] US (63/317,199) 2022-03-07

[21] **3,232,769**
[13] A1
[51] **Int.Cl. A01N 37/04 (2006.01) B01F 23/231 (2022.01) B01F 25/70 (2022.01) B01J 19/26 (2006.01) C23C 16/04 (2006.01)**
[25] EN
[54] **POLYMER COATING FOR MEDICAL DEVICES AND METHOD OF MANUFACTURE THEREOF**
[54] **REVETEMENT POLYMERE POUR DISPOSITIFS MEDICAUX ET PROCEDE DE FABRICATION**
[72] HILL, ALEX, US
[71] MOTT CORPORATION, US
[85] 2024-03-18
[86] 2022-09-19 (PCT/US2022/043945)
[87] (WO2023/044093)
[30] US (63/246,012) 2021-09-20

[21] **3,232,770**
[13] A1
[51] **Int.Cl. G16H 30/40 (2018.01) G16H 50/20 (2018.01) G16H 50/70 (2018.01)**
[25] EN
[54] **MACHINE LEARNING FOR PREDICTING CANCER GENOTYPE AND TREATMENT RESPONSE USING DIGITAL HISTOPATHOLOGY IMAGES**
[54] **APPRENTISSAGE AUTOMATIQUE POUR PREDIRE UN GENOTYPE DE CANCER ET UNE REPONSE DE TRAITEMENT A L'AIDE D'IMAGES HISTOPATHOLOGIQUES NUMERIQUES**
[72] RAMON, ALBERT, US
[72] STANDISH, KRIS, US
[72] PARMAR, CHAITANYA, US
[72] YIP, STEPHAN, US
[72] GRESHOCK, JOEL, US
[71] JANSSEN RESEARCH & DEVELOPMENT, LLC, US
[85] 2024-03-19
[86] 2022-09-20 (PCT/IB2022/058892)
[87] (WO2023/042184)
[30] US (63/246,178) 2021-09-20
[30] US (63/301,023) 2022-01-19

[21] **3,232,771**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01)**
[25] EN
[54] **TUMOR-SPECIFIC BISPECIFIC IMMUNE CELL ENGAGER**
[54] **ANTICORPS BITE IMMUNITAIRE SPECIFIQUE DE TUMEUR**
[72] LIU, BIN, US
[72] BIDLINGMAIER, SCOTT, US
[72] SU, YANG, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-03-19
[86] 2022-09-21 (PCT/US2022/044205)
[87] (WO2023/049150)
[30] US (63/247,014) 2021-09-22

[21] **3,232,772**
[13] A1
[51] **Int.Cl. A61B 34/00 (2016.01) A61B 34/10 (2016.01) A61B 34/30 (2016.01) G16H 20/40 (2018.01) G16H 30/40 (2018.01) G16H 50/20 (2018.01) G06N 20/00 (2019.01) A61B 5/055 (2006.01) A61B 18/02 (2006.01) G01R 33/56 (2006.01)**
[25] EN
[54] **IMAGE-GUIDED ROBOTIC SYSTEM FOR DETECTION AND TREATMENT**
[54] **SYSTEME ROBOTIQUE GUIDE PAR L'IMAGE POUR DETECTION ET TRAITEMENT**
[72] FIELDING, TIMOTHY SCOTT, CA
[72] ANVARI, MEHRAN, CA
[71] CENTRE FOR SURGICAL INVENTION AND INNOVATION, CA
[85] 2024-03-19
[86] 2022-10-04 (PCT/CA2022/051467)
[87] (WO2023/056552)
[30] US (63/251,842) 2021-10-04

[21] **3,232,773**
[13] A1
[51] **Int.Cl. B01D 15/16 (2006.01) A61K 31/712 (2006.01) B01D 15/32 (2006.01) C07K 1/20 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **METHODS FOR SEPARATING MOLECULAR SPECIES OF GUANINE-RICH OLIGONUCLEOTIDES**
[54] **PROCEDES POUR SEPARER DES ESPECES MOLECULAIRES D'OLIGONUCLEOTIDES RICHES EN GUANINE**
[72] DUFF, ROBERT, J., US
[72] SCHILLINGER, HELENA, US
[72] LIPPENS, JENNIFER, US
[71] AMGEN INC., US
[85] 2024-03-19
[86] 2022-09-29 (PCT/US2022/045152)
[87] (WO2023/055879)
[30] US (63/250,650) 2021-09-30

[21] **3,232,774**
[13] A1
[51] **Int.Cl. D01F 8/18 (2006.01) A41D 13/00 (2006.01) A41D 13/008 (2006.01) D01F 11/12 (2006.01) D02G 3/12 (2006.01) D02G 3/36 (2006.01) D02G 3/44 (2006.01)**
[25] EN
[54] **A CONDUCTIVE YARN**
[54] **FIL CONDUCTEUR**
[72] CARRARO, RINALDO (DECEASED), XX
[71] CARRARO S.R.L., IT
[85] 2024-03-19
[86] 2022-09-26 (PCT/IB2022/059126)
[87] (WO2023/047374)
[30] IT (102021000024659) 2021-09-27

[21] **3,232,775**
[13] A1
[51] **Int.Cl. A61K 31/4375 (2006.01) A61K 31/444 (2006.01) A61K 31/498 (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) C07D 491/048 (2006.01) C07D 491/147 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **AZETIDINE AND PYRROLIDINE PARP1 INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE PARP1 A BASE D'AZETIDINE ET DE PYRROLIDINE ET LEURS UTILISATIONS**
[72] HOFFMAN, ROBERT L., US
[72] DONG, QING, US
[72] VA, PORINO JINJO, US
[72] KALDOR, STEPHEN W. (DECEASED), US
[72] TRZOSS, LYNNIE, US
[71] XINTHERA, INC., US
[85] 2024-03-19
[86] 2022-09-30 (PCT/US2022/045415)
[87] (WO2023/056039)
[30] US (63/251,469) 2021-10-01
[30] US (63/339,597) 2022-05-09
[30] US (63/402,835) 2022-08-31

[21] **3,232,776**
[13] A1
[51] **Int.Cl. B07B 1/28 (2006.01) B06B 1/16 (2006.01) B07B 1/42 (2006.01) F16C 33/66 (2006.01) F16C 35/04 (2006.01)**
[25] EN
[54] **EXCITER APPARATUS**
[54] **APPAREIL D'EXCITATION**
[72] GARDINER, MICHAEL, AU
[72] HALANI, TEJAS, AU
[72] ALHASSAN, SHANOON, AU
[72] SEYMOUR, CLAYTON, AU
[72] SADLER, BYRON, AU
[72] ONG, GORDON, AU
[71] FLSMIDTH A/S, DK
[85] 2024-03-19
[86] 2022-10-19 (PCT/IB2022/060026)
[87] (WO2023/067512)
[30] DK (PA202101001) 2021-10-20

[21] **3,232,777**
[13] A1
[51] **Int.Cl. C07K 14/555 (2006.01) A61K 38/21 (2006.01) C07K 14/56 (2006.01) C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL INTERFERON VARIANTS AND BIFUNCTIONAL FUSION MOLECULES THEREOF**
[54] **NOUVEAUX VARIANTS D'INTERFERON ET MOLECULES DE FUSION BIFONCTIONNELLES DE CEUX-CI**
[72] YAN, HAI, US
[72] WANG, WUYI, US
[72] STEWARD, KRISTOPHER, US
[71] REMD BIOTHERAPEUTICS, INC., US
[85] 2024-03-18
[86] 2022-09-12 (PCT/US2022/040807)
[87] (WO2023/023283)
[30] US (63/234,498) 2021-08-18
[30] US (63/347,871) 2022-06-01

[21] **3,232,778**
[13] A1
[51] **Int.Cl. F02M 25/08 (2006.01) C01B 32/354 (2017.01) B01J 20/20 (2006.01)**
[25] EN
[54] **FORMED ADSORBER FOR CANISTER**
[54] **ADSORBANT MOULE POUR CARTOUCHE**
[72] WATANABE, YOSHIHIDE, JP
[72] IMAI, DAISUKE, JP
[72] TAKATA, YU, JP
[72] RYU, DONGYEON, JP
[71] NIPPON PAPER INDUSTRIES CO., LTD., JP
[85] 2024-03-19
[86] 2022-09-21 (PCT/JP2022/035091)
[87] (WO2023/054088)
[30] JP (2021-158752) 2021-09-29
[30] JP (2022-132289) 2022-08-23

[21] **3,232,779**
[13] A1
[51] **Int.Cl. C07K 16/06 (2006.01) C07K 1/16 (2006.01) C07K 1/22 (2006.01) C07K 14/31 (2006.01) C07K 16/00 (2006.01) C07K 16/32 (2006.01)**
[25] EN
[54] **FC BINDING POLYPEPTIDES**
[54] **POLYPEPTIDES DE LIAISON FC**
[72] ANDER, MATS ARVID, SE
[72] IVANSSON, DANIEL, SE
[72] JONSSON, ANDREAS LARS MAGNUS, SE
[71] CYTIVA BIOPROCESS R&D AB, SE
[85] 2024-03-18
[86] 2022-09-23 (PCT/EP2022/076493)
[87] (WO2023/046886)
[30] GB (2113626.2) 2021-09-24

[21] **3,232,780**
[13] A1
[51] **Int.Cl. A63B 69/00 (2006.01)**
[25] FR
[54] **RECYCLABLE REMOVABLE CLIMBING GRIP FOR AN ARTIFICIAL CLIMBING STRUCTURE AND ARTIFICIAL STRUCTURE COMPRISING SAID GRIP**
[54] **PRISE D'ESCALADE AMOVIBLE RECYCLABLE POUR UNE STRUCTURE ARTIFICIELLE D'ESCALADE ET STRUCTURE ARTIFICIELLE COMPRENANT LADITE PRISE**
[72] LEPRIVEY, SEBASTIEN, FR
[72] JACQUOT-BERTRAND, BENOIT, FR
[72] PHEULPIN, HUGO, FR
[71] SBH EQUIPEMENTS, FR
[85] 2024-03-18
[86] 2022-09-29 (PCT/EP2022/077215)
[87] (WO2023/052560)
[30] FR (2110312) 2021-09-30

[21] **3,232,781**
[13] A1
[51] **Int.Cl. E04H 4/12 (2006.01) E04H 4/16 (2006.01)**
[25] EN
[54] **CHEMICAL DISPENSERS FOR PROLONGED WATER TREATMENT**
[54] **DISTRIBUTEURS CHIMIQUES POUR TRAITEMENT PROLONGE DE L'EAU**
[72] ROWHANI, TOURAJ, US
[71] INNOVATIVE WATER CARE, LLC, US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/076911)
[87] (WO2023/049827)
[30] US (63/248,084) 2021-09-24

[21] **3,232,782**
[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01)**
[25] EN
[54] **LOW FLUID LEVEL DETECTION DEVICE**
[54] **DISPOSITIF DE DETECTION DE FAIBLE NIVEAU DE FLUIDE**
[72] PETTINATO, DAVID, US
[72] DORUFF, JEFFREY ALLEN, US
[72] STEINMAN, CHRISTOPHER PAUL, US
[71] LIFELINE SCIENTIFIC, INC., US
[85] 2024-03-19
[86] 2021-09-29 (PCT/US2021/052706)
[87] (WO2023/048737)
[30] US (17/483,020) 2021-09-23

[21] **3,232,783**
[13] A1
[51] **Int.Cl. A61M 25/01 (2006.01)**
[25] EN
[54] **STEERABLE TUBULAR ASSEMBLY FOR BRONCHOSCOPIC PROCEDURES**
[54] **ENSEMBLE TUBULAIRE DIRIGEABLE POUR INTERVENTIONS BRONCHOSCOPIQUES**
[72] SHAPIRA, ELI, IL
[72] GRIMBERG, TSAHI ITSHAK, IL
[72] PAZ, NADAV, IL
[72] KAPPEL, RON, IL
[71] W ENDOLUMINAL ROBOTICS LTD, IL
[85] 2024-03-18
[86] 2022-09-04 (PCT/IB2022/058307)
[87] (WO2023/047219)
[30] US (63/247,424) 2021-09-23

[21] **3,232,784**
[13] A1
[51] **Int.Cl. C03C 17/00 (2006.01) A61M 5/178 (2006.01) A61M 5/31 (2006.01) B05D 7/22 (2006.01) C03C 17/30 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A MEDICAL INJECTION DEVICE AND MEDICAL INJECTION DEVICE THUS OBTAINED**
[54] **PROCEDE DE FABRICATION D'UN DISPOSITIF D'INJECTION MEDICAL ET DISPOSITIF D'INJECTION MEDICAL AINSI OBTENU**
[72] CHILLON, ALBERTO, IT
[72] CHINELLATO, FABIO, IT
[72] PATRI, PAOLO, IT
[71] STEVANATO GROUP S.P.A., IT
[85] 2024-03-18
[86] 2022-09-26 (PCT/IB2022/059127)
[87] (WO2023/047375)
[30] IT (102021000024574) 2021-09-24
[30] IT (102022000003761) 2022-03-01

[21] **3,232,785**
[13] A1
[51] **Int.Cl. G06Q 30/0601 (2023.01) G06T 19/00 (2011.01)**
[25] EN
[54] **INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND NON-TRANSITORY COMPUTER-READABLE STORAGE MEDIUM**
[54] **DISPOSITIF DE TRAITEMENT DE DONNEES, METHODE DE TRAITEMENT DES DONNEES ET SUPPORT DE DONNEES LISIBLE PAR ORDINATEUR NON TRANSITOIRE**
[72] ONO, KENGO, JP
[72] KOJIMA, ERI, JP
[72] ANDO, FUMINORI, JP
[72] YOSHIOKA, SHUNYA, JP
[72] HORI, MIYUKI, JP
[71] ZOZO, INC., JP
[85] 2024-03-18
[86] 2022-09-13 (PCT/JP2022/034183)
[87] (WO2023/053935)
[30] JP (2021-159093) 2021-09-29

[21] **3,232,786**
[13] A1
[51] **Int.Cl. A63G 1/48 (2006.01) A63G 31/06 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **ROTATING DARK RIDE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE MANEGE D'EPOUVANTE ROTATIF**
[72] JENNINGS, CLIFFORD ALLEN, US
[71] OCEANEEERING INTERNATIONAL, INC., US
[85] 2024-03-19
[86] 2022-10-11 (PCT/US2022/046266)
[87] (WO2023/064264)
[30] US (63/254,409) 2021-10-11

[21] **3,232,787**
[13] A1
[51] **Int.Cl. A61K 35/742 (2015.01) A61K 45/06 (2006.01)**
[25] EN
[54] **USE OF CLOSTRIDIUM GHONII IN COMBINATION WITH TUMOR ANGIOGENESIS INHIBITOR**
[54] **UTILISATION DE CLOSTRIDIUM GHONII EN COMBINAISON AVEC UN INHIBITEUR DE L'ANGIOGENESE TUMORALE**
[72] WANG, YONG, CN
[72] LIU, YUANYUAN, CN
[72] ZHANG, WENHUA, CN
[72] XING, YANQIU, CN
[72] WANG, SHAOPENG, CN
[72] WANG, DAN, CN
[72] ZHU, HONG, CN
[72] XU, XINGLU, CN
[72] JIANG, SHENGBIAO, CN
[72] LI, XIAONAN, CN
[72] ZHENG, JIAHUI, CN
[72] ZHANG, RONG, CN
[72] YANG, DONGXIA, CN
[72] GAO, YUXIA, CN
[72] SHAO, SHILI, CN
[72] HAN, TING, CN
[71] SHIHUIDA PHARMACEUTICAL GROUP (JILIN) CO., LTD., CN
[85] 2024-03-22
[86] 2022-10-09 (PCT/CN2022/124089)
[87] (WO2023/056972)
[30] CN (202111177878.9) 2021-10-09

[21] **3,232,788**
[13] A1
[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 10/00 (2015.01) B33Y 70/00 (2020.01) B29C 64/314 (2017.01) C08G 63/06 (2006.01) C08L 101/16 (2006.01) D01F 6/62 (2006.01) D01F 6/84 (2006.01) D01F 6/92 (2006.01)**
[25] EN
[54] **FILAMENT FOR 3D PRINTER AND PRODUCTION METHOD THEREFOR**
[54] **FILAMENT POUR IMPRIMANTE 3D ET SON PROCEDE DE PRODUCTION**
[72] KOGAWA, TAISUKE, JP
[72] KADOWAKI, KOJI, JP
[72] NAKAMURA, MASATAKA, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2024-03-18
[86] 2022-09-30 (PCT/JP2022/036701)
[87] (WO2023/058572)
[30] JP (2021-164555) 2021-10-06

[21] **3,232,789**
[13] A1
[51] **Int.Cl. G06V 10/62 (2022.01) G06F 16/00 (2019.01) G06V 10/74 (2022.01) G06V 20/52 (2022.01)**
[25] EN
[54] **IMAGE SUBJECT INDIVIDUATION AND MONITORING**
[54] **INDIVIDUALISATION ET SURVEILLANCE D'UN SUJET SUR UNE IMAGE**
[72] LEE-SMITH, ANDREW JONATHAN ROBERT, GB
[72] PALLISTER, MICHAEL ANDREW, GB
[72] SOGHBATYAN, TIGRAN, GB
[71] SEECHANGE TECHNOLOGIES LIMITED, GB
[85] 2024-03-22
[86] 2022-09-07 (PCT/GB2022/052275)
[87] (WO2023/047084)
[30] GB (2113513.2) 2021-09-22

[21] **3,232,790**
[13] A1
[51] **Int.Cl. H02J 3/00 (2006.01) H02J 3/32 (2006.01)**
[25] EN
[54] **ELECTRICAL SYSTEMS AND METHODS USING HIGH CAPACITY LOCAL BUS SUPPORTED BY ENERGY STORAGE**
[54] **PROCEDES ET SYSTEMES ELECTRIQUES UTILISANT UN BUS LOCAL A CAPACITE ELEVEE SUPPORTE PAR STOCKAGE D'ENERGIE**
[72] OJALA, DAVIN, US
[71] FLEXGEN POWER SYSTEMS, INC., US
[85] 2024-03-19
[86] 2022-09-22 (PCT/US2022/076827)
[87] (WO2023/049780)
[30] US (63/246,984) 2021-09-22

[21] **3,232,791**
[13] A1
[51] **Int.Cl. A63G 25/00 (2006.01) A63G 31/02 (2006.01) G06T 19/00 (2011.01) A63G 7/00 (2006.01) A63G 31/16 (2006.01)**
[25] EN
[54] **DYNAMICALLY RECONFIGURED DARK RIDE SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES DE MANEGE NOIR OU D'EPOUVANTE RECONFIGURES DE MANIERE DYNAMIQUE**
[72] JENNIGS, CLIFFORD ALLEN, US
[71] OCEANEERING INTERNATIONAL, INC., US
[85] 2024-03-19
[86] 2022-10-11 (PCT/US2022/046271)
[87] (WO2023/064266)
[30] US (63/254,409) 2021-10-11

[21] **3,232,792**
[13] A1
[51] **Int.Cl. E02F 3/32 (2006.01) A01B 3/64 (2006.01) E02F 3/34 (2006.01) E02F 9/06 (2006.01)**
[25] EN
[54] **STAND-ALONE ELECTRONIC CONTROL OF WINCHES**
[54] **COMMANDE ELECTRONIQUE AUTONOME DE TREUILS**
[72] TEAHON, JESSE CAMERON, US
[72] HENDRIX, FLOYD JAMES, US
[72] ETEMADI, CHRISTOPHER SHAHRAM, US
[72] CARL, DONALD CHRISTOPHER, US
[71] PACCAR INC, US
[85] 2024-03-22
[86] 2021-09-24 (PCT/US2021/052039)
[87] (WO2023/048725)

[21] **3,232,793**
[13] A1
[51] **Int.Cl. B01D 59/30 (2006.01) B01D 59/38 (2006.01) B01D 59/50 (2006.01) G21K 5/08 (2006.01)**
[25] EN
[54] **ION PRODUCTION SYSTEM WITH FIBROUS LATTICE FOR ION COLLECTION**
[54] **SYSTEME DE PRODUCTION D'IONS A TREILLIS FIBREUX POUR LA COLLECTE D'IONS**
[72] CHEREKDJIAN, SARKO, US
[72] SISSON, RICH, US
[71] SHINE TECHNOLOGIES, LLC, US
[85] 2024-03-22
[86] 2022-09-30 (PCT/US2022/045398)
[87] (WO2023/056025)
[30] US (63/251,397) 2021-10-01

[21] **3,232,794**
[13] A1
[51] **Int.Cl. F24D 17/00 (2022.01) E03B 7/04 (2006.01) F24D 19/10 (2006.01)**
[25] EN
[54] **IMPROVEMENT MADE TO A DEVICE AND TO AN ASSOCIATED METHOD FOR SAVING HEAT ENERGY AND WATER IN A SANITARY INSTALLATION**
[54] **PERFECTIONNEMENT APPORTE A UN DISPOSITIF ET A UN PROCEDE ASSOCIE POUR ECONOMISER L'ENERGIE CALORIFIQUE ET L'EAU DANS UNE INSTALLATION SANITAIRE**
[72] PERRIN, DAVID, FR
[71] PERRIN, DAVID, FR
[85] 2024-03-22
[86] 2022-10-05 (PCT/IB2022/059493)
[87] (WO2023/057915)
[30] FR (FR2110655) 2021-10-07
[30] FR (FR2201293) 2022-02-14

[21] **3,232,795**
[13] A1
[51] **Int.Cl. B65D 51/28 (2006.01) B01F 21/20 (2022.01) A47J 31/40 (2006.01) B65D 25/08 (2006.01) B65D 51/22 (2006.01) B65D 81/32 (2006.01)**
[25] EN
[54] **INGREDIENT DISPENSING AND DRINK THROUGH DEVICE FOR BEVERAGE CONTAINER**
[54] **DISTRIBUTEUR D'INGREDIENT ET DISPOSITIF DE PASSAGE DE BOISSON POUR RECIPIENT DE BOISSON**
[72] HOWARD, DANIEL, US
[72] IRIZARRY, MARIO JUNIOR, US
[71] DISPENSA HOLDINGS LLC, US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/076649)
[87] (WO2023/049676)
[30] US (63/246,644) 2021-09-21

[21] **3,232,796**
[13] A1
[51] **Int.Cl. G06V 10/10 (2022.01) G06F 16/13 (2019.01)**
[25] EN
[54] **ENABLING ELECTRONIC LOAN DOCUMENTS**
[54] **ACTIVATION DE DOCUMENTS DE PRET ELECTRONIQUE**
[72] IANNITTI, DOMINIC, US
[71] DOCMAGIC, INC., US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044431)
[87] (WO2023/049288)
[30] US (63/248,376) 2021-09-24
[30] US (17/950,549) 2022-09-22

[21] **3,232,797**
[13] A1
[51] **Int.Cl. A61L 9/14 (2006.01)**
[25] EN
[54] **AIR TREATMENT APPLIANCE**
[54] **APPAREIL DE TRAITEMENT DE L'AIR**
[72] SWARD, NATHAN, US
[71] PROLITEC INC., US
[85] 2024-03-22
[86] 2022-09-08 (PCT/US2022/042885)
[87] (WO2023/048952)
[30] US (63/248,515) 2021-09-26
[30] US (17/486,788) 2021-09-27

[21] **3,232,798**
[13] A1
[51] **Int.Cl. F16L 15/04 (2006.01)**
[25] EN
[54] **OIL-WELL METAL PIPE**
[54] **TUYAU METALLIQUE POUR PUITS DE PETROLE**
[72] ABE, TOMOKA, JP
[72] MATSUMOTO, KEISHI, JP
[72] OCHIAI, MAMORU, JP
[72] IWAKI, YUICHI, JP
[71] NIPPON STEEL CORPORATION, JP
[71] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2024-03-22
[86] 2022-10-13 (PCT/JP2022/038194)
[87] (WO2023/063385)
[30] JP (2021-169258) 2021-10-15

[21] **3,232,799**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **METHODS OF TREATING MULTIPLE MYELOMA**
[54] **METHODES DE TRAITEMENT DU MYELOME MULTIPLE**
[72] HO, PHOENIX, US
[72] VAN EPPS, HEATHER ALANE, US
[72] CAMPBELL, MARY, US
[72] KIM, AMY, US
[72] CHENG, SHINTA, US
[72] SHEARER, TODD, US
[71] SEAGEN INC., US
[71] SPRINGWORKS THERAPEUTICS, INC., US
[85] 2024-03-19
[86] 2022-09-20 (PCT/US2022/076694)
[87] (WO2023/049694)
[30] US (63/247,637) 2021-09-23

[21] **3,232,800**
[13] A1
[51] **Int.Cl. E05D 3/06 (2006.01) E05F 15/614 (2015.01) E05F 15/63 (2015.01) E05F 15/649 (2015.01) E05F 15/655 (2015.01) E05D 3/12 (2006.01)**
[25] EN
[54] **DIGITAL DOOR**
[54] **PORTE NUMERIQUE**
[72] DOSENBACH, ERIC, US
[72] PUGH, MICHAEL, US
[71] THE BRAUN CORPORATION, US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/044758)
[87] (WO2023/049469)
[30] US (63/247,841) 2021-09-24

[21] **3,232,801**
[13] A1
[51] **Int.Cl. A61K 49/00 (2006.01) A61P 3/10 (2006.01) C07K 14/47 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **METHODS FOR PROGNOSING TYPE 1 DIABETES TREATMENTS**
[54] **METHODES DE PRONOSTIC DE TRAITEMENTS DU DIABETE DE TYPE 1**
[72] SIMS, EMILY K., US
[72] SOSENKO, JAY M., US
[72] CUTHBERTSON, DAVID, US
[72] LEON, FRANCISCO, US
[71] PROVENTION BIO, INC., US
[71] SIMS, EMILY K., US
[71] SOSENKO, JAY M., US
[71] CUTHBERTSON, DAVID, US
[85] 2024-03-19
[86] 2022-09-20 (PCT/US2022/076702)
[87] (WO2023/044495)
[30] US (63/246,184) 2021-09-20

[21] **3,232,804**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) C12N 9/22 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR REDUCING POD SHATTER IN CANOLA**
[54] **PROCEDES ET COMPOSITIONS POUR REDUIRE L'ECLATEMENT DE LA COSSE DANS LE CANOLA**
[72] CRAWFORD, BRIAN CHARLES WILDING, US
[72] GRAHAM, NATHANIEL, US
[72] MATHEW, LOLITA GEORGE, US
[71] PAIRWISE PLANTS SERVICES, INC., US
[85] 2024-03-19
[86] 2022-09-21 (PCT/US2022/076746)
[87] (WO2023/049720)
[30] US (63/246,512) 2021-09-21

[21] **3,232,805**
[13] A1
[51] **Int.Cl. F04D 15/00 (2006.01) F04D 15/02 (2006.01) F04D 29/66 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PUMP CONTROL BASED ON PUMP VIBRATIONS**
[54] **SYSTEME ET PROCEDE DE COMMANDE DE POMPE SUR LA BASE DE VIBRATIONS DE POMPE**
[72] SUNDSTROM, TIM, SE
[71] S.P.M. INSTRUMENT AB, SE
[85] 2024-03-22
[86] 2022-10-10 (PCT/SE2022/050915)
[87] (WO2023/059264)
[30] SE (2151245-4) 2021-10-09
[30] SE (2251176-0) 2022-10-09

[21] **3,232,806**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **B7-H4 ANTIBODY-DRUG CONJUGATES FOR THE TREATMENT OF CANCER**
[54] **CONJUGUES ANTICORPS-MEDICAMENT B7-H4 POUR LE TRAITEMENT DU CANCER**
[72] GARDAI, SHYRA, US
[72] GRAY, ELIZABETH E., US
[71] SEAGEN INC., US
[85] 2024-03-19
[86] 2022-09-29 (PCT/US2022/077267)
[87] (WO2023/056362)
[30] US (63/261,949) 2021-09-30
[30] US (63/293,625) 2021-12-23
[30] US (63/317,536) 2022-03-07

[21] **3,232,809**
[13] A1
[51] **Int.Cl. C07K 14/495 (2006.01) A61K 38/19 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/19 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **ENGINEERED TGF-BETA MONOMERS AND METHODS OF USE**
[54] **MONOMERES DE TGF-BETA MODIFIES ET METHODES D'UTILISATION**
[72] HINCK, ANDREW P., US
[72] DEPEAUX, KRISTIN, US
[72] DELGOFFE, GREG M., US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2024-03-19
[86] 2022-10-11 (PCT/US2022/077879)
[87] (WO2023/064747)
[30] US (63/254,249) 2021-10-11

[21] **3,232,812**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61P 17/14 (2006.01)**
[25] EN
[54] **METHODS OF TREATING HAIR-LOSS DISORDERS WITH TYK2 INHIBITORS**
[54] **PROCEDES DE TRAITEMENT DE TROUBLES DE LA PERTE DES CHEVEUX AVEC DES INHIBITEURS DE TYK2**
[72] CATLETT, IAN MACQUARIE, US
[72] KIM, JIN, US
[72] BERTOLINI, MARTA, DE
[72] EDELKAMP, JANIN, DE
[72] ROUILLE, THOMAS, DE
[71] BRISTOL-MYERS SQUIBB COMPANY, US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044346)
[87] (WO2023/049241)
[30] US (63/247,672) 2021-09-23

[21] **3,232,816**
[13] A1
[51] **Int.Cl. C08G 12/12 (2006.01) B27N 3/00 (2006.01) B32B 21/14 (2006.01) C08G 12/40 (2006.01) C09J 161/24 (2006.01) C09J 161/30 (2006.01)**
[25] EN
[54] **MODIFIED AMINOPLASTIC ADHESIVE RESIN, PROCEDURE OF ITS PREPARATION AND COMPOSITE MATERIALS PREPARED USING THIS MODIFIED AMINOPLASTIC ADHESIVE RESIN**
[54] **RESINE ADHESIVE AMINOPLASTIQUE MODIFIEE, SON PROCEDE DE PREPARATION ET MATERIAUX COMPOSITES PREPARES A L'AIDE DE CETTE RESINE ADHESIVE AMINOPLASTIQUE MODIFIEE**
[72] DUNKY, MANFRED, AT
[72] OLAECHEA, LUIS MIGUEL, CH
[72] MAYER, INGO, CH
[72] FREI, RETO, CH
[71] LIGNUM TECHNOLOGIES AG, CH
[85] 2024-03-19
[86] 2021-10-22 (PCT/EP2021/079346)
[87] (WO2023/066500)

[21] **3,232,819**
[13] A1
[51] **Int.Cl. B03B 9/06 (2006.01)**
[25] EN
[54] **PLANT AND METHOD FOR TREATING ORGANIC WASTE**
[54] **USINE ET PROCEDE DE TRAITEMENT DE DECHETS ORGANIQUES**
[72] CELLA MAZZARIOL, PIETRO PAOLO, IT
[72] GALANZINO, GIAN FRANCESCO, IT
[71] ENTSORGAFIN S.P.A., IT
[85] 2024-03-22
[86] 2022-10-07 (PCT/IB2022/059589)
[87] (WO2023/057968)
[30] IT (102021000025766) 2021-10-08

[21] **3,232,820**
[13] A1
[51] **Int.Cl. G01F 1/002 (2022.01) G01F 1/663 (2022.01) G01S 13/88 (2006.01) G01F 25/10 (2022.01)**
[25] EN
[54] **FLOW AND LEVEL MONITOR FOR FLUID SYSTEMS**
[54] **DISPOSITIF DE SURVEILLANCE DE FLUX ET DE NIVEAU POUR DES SYSTEMES FLUIDIQUES**
[72] EDWARDS, GERARD, US
[72] WANG, ZONGBO, US
[71] HYDRO RADAR, LLC, US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044353)
[87] (WO2023/049247)
[30] US (63/248,029) 2021-09-24

[21] **3,232,823**
[13] A1
[51] **Int.Cl. A61M 37/00 (2006.01) A61L 31/06 (2006.01) A61L 31/16 (2006.01)**
[25] EN
[54] **POLYMERIC MICROSTRUCTURES AND SYSTEMS AND METHODS FOR MAKING SAME**
[54] **MICROSTRUCTURES ET SYSTEMES POLYMERES ET LEURS PROCEDES DE FABRICATION**
[72] DESIMONE, JOSEPH M., US
[72] JACOBSON, GUNILLA B., US
[72] DULAY, MARIA T., US
[72] LEE, BRIAN J., US
[72] HSIAO, KAI-WEN, US
[72] RAJESH, NETRA, US
[72] DRISKILL, MADISON M., US
[72] SHIH, AUDREY, US
[72] PERRY, JILLIAN, US
[72] TIAN, SHAOMIN, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[71] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044393)
[87] (WO2023/049267)
[30] US (63/248,280) 2021-09-24

[21] **3,232,824**
[13] A1
[51] **Int.Cl. A23B 4/12 (2006.01) A23L 13/40 (2023.01) A23L 27/10 (2016.01) A23B 4/20 (2006.01) A23L 2/38 (2021.01) A23L 3/10 (2006.01) A23L 3/3472 (2006.01) A23L 3/3499 (2006.01)**
[25] EN
[54] **FERMENTED ONION COMPOSITION**
[54] **COMPOSITION D'OIGNONS FERMENTES**
[72] CHAREST, DAVID JOHN, US
[72] IANCU, CATALIN, NL
[72] SAURABH, KUMAR, US
[72] POSTMUS, JARNE, NL
[72] ROOZEN, LAMBERTUS HENRICUS ELISABETH, NL
[72] MEIJER, JASPER, NL
[72] VAN DER VELDEN, ROEL JOHANNES ADRIANUS, NL
[72] WIMALASENA, TITHIRA TIRANGIKA, NL
[72] MATYS, BOGDAN PAWEL, NL
[72] KOKEN, AYSE NUR POLAT, NL
[71] PURAC BIOCHEM B.V., NL
[85] 2024-03-22
[86] 2022-10-14 (PCT/EP2022/078712)
[87] (WO2023/062216)
[30] IB (PCT/IB2021/000695) 2021-10-14

[21] **3,232,827**
[13] A1
[51] **Int.Cl. C07C 15/02 (2006.01) A61P 25/16 (2006.01) A61P 25/24 (2006.01) A61P 25/30 (2006.01)**
[25] EN
[54] **SUBSTITUTED PHENYLALKYLAMINES**
[54] **PHENYLALKYLAMINES SUBSTITUEES**
[72] DALEY, PAUL, US
[72] COZZI, NICHOLAS, US
[71] ALEXANDER SHULGIN RESEARCH INSTITUTE, INC., US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/044771)
[87] (WO2023/049480)
[30] US (63/248,450) 2021-09-25

[21] **3,232,828**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61M 5/00 (2006.01) A61M 5/20 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES AND METHODS FOR DERMAL TREATMENTS**
[54] **SYSTEMES, DISPOSITIFS ET METHODES POUR TRAITEMENTS DERMIQUES**
[72] ABRAHAM, JACK PHILLIP, US
[72] ROBERTS, CALLIE MACKENZIE, US
[72] LIU, LIANG, US
[72] KONG, DEHUI, US
[72] CYPHER, HEALEY THOMAS, US
[72] BENTE, PAUL F. IV, US
[71] ACOM LABS, INC., US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/077038)
[87] (WO2023/049907)
[30] US (63/248,396) 2021-09-24

[21] **3,232,829**
[13] A1
[51] **Int.Cl. F24T 10/30 (2018.01) F01K 25/10 (2006.01) F01K 27/02 (2006.01)**
[25] EN
[54] **DOWNHOLE HEAT EXCHANGER FOR GEOTHERMAL POWER SYSTEMS**
[54] **ECHANGEUR DE CHALEUR DE FOND DE TROU POUR SYSTEMES D'ENERGIE GEOTHERMIQUE**
[72] RING, LEV M., US
[72] SIMPKINS, DOUGLAS, US
[72] COOK, ROBERT LANCE, US
[71] SAGE GEOSYSTEMS INC., US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/044736)
[87] (WO2023/049454)
[30] US (63/248,965) 2021-09-27
[30] US (PCT/US2022/036552) 2022-07-08

[21] **3,232,830**
[13] A1
[51] **Int.Cl. H02K 1/14 (2006.01) H02K 1/02 (2006.01)**
[25] EN
[54] **MULTI-MATERIAL SEGMENTED STATOR**
[54] **STATOR SEGMENTE MULTI-MATERIAUX**
[72] ARONHIME, NATAN, US
[72] DAS, JAYDIP, US
[72] LIU, MINGDA, US
[72] MEHEDI, MD, US
[72] TROUP, BRANDON, US
[71] CRS HOLDINGS, LLC, US
[85] 2024-03-22
[86] 2022-10-04 (PCT/US2022/077509)
[87] (WO2023/060063)
[30] US (63/253,731) 2021-10-08

[21] **3,232,831**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **A DNA VACCINE FOR USE IN THE THERAPEUTIC AND/OR PROPHYLACTIC TREATMENT OF TUMOR DISEASES**
[54] **VACCIN A ADN DESTINE A ETRE UTILISE DANS LE TRAITEMENT THERAPEUTIQUE ET/OU PROPHYLACTIQUE DE MALADIES TUMORALES**
[72] NOVELLI, FRANCESCO, IT
[72] CAPPELLO, PAOLA, IT
[72] CURCIO, CLAUDIA, IT
[72] BRUGIAPAGLIA, SILVIA, IT
[71] UNIVERSITA' DEGLI STUDI DI TORINO, IT
[85] 2024-03-22
[86] 2022-09-27 (PCT/IB2022/059186)
[87] (WO2023/052996)
[30] IT (102021000024779) 2021-09-28

[21] **3,232,832**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 9/16 (2006.01) A61K 31/36 (2006.01) A61K 31/4025 (2006.01) A61K 31/7048 (2006.01) A61K 47/32 (2006.01) A61K 47/36 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION AND A PROCESS TO PREPARE THE SAME**
[54] **COMPOSITION PHARMACEUTIQUE ET SON PROCEDE DE PREPARATION**
[72] REDASANI, VIJAYENDRA, IN
[72] GAVADE, SANDIP, IN
[72] ATHAVALE, MAITHILI, IN
[72] KHARKAR, PRASHANT, IN
[71] GODAVARI BIOREFINERIES LIMITED, IN
[85] 2024-03-21
[86] 2022-09-21 (PCT/IN2022/050842)
[87] (WO2023/047413)
[30] IN (202121042945) 2021-09-22

[21] **3,232,833**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61P 35/00 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **CHIMERIC RECEPTOR POLYPEPTIDES IN COMBINATION WITH TRANS METABOLISM MOLECULES THAT RE-DIRECT GLUCOSE METABOLITES OUT OF THE GLYCOLYSIS PATHWAY AND THERAPEUTIC USES THEREOF**
[54] **POLYPEPTIDES RECEPTEURS CHIMERIQUES EN COMBINAISON AVEC DES MOLECULES DE METABOLISME TRANS QUI REORIENTENT DES METABOLITES DE GLUCOSE HORS DE LA VOIE DE GLYCOLYSE ET LEURS UTILISATIONS THERAPEUTIQUE**
[72] MCGINNESS, KATHLEEN, US
[72] ETTENBERG, SETH, US
[72] BARRON, LUKE, US
[72] FRAY, MICHAEL, US
[72] WILSON, CHARLES, US
[72] MOTZ, GREGORY, US
[72] BHADURI, SAMYABRATA, US
[72] JENSEN, AMY, US
[72] KUIPER, EMILY, US
[71] SOTIO BIOTECH INC., US
[85] 2024-03-22
[86] 2022-09-27 (PCT/US2022/077103)
[87] (WO2023/049933)
[30] US (63/248,629) 2021-09-27
[30] US (63/399,324) 2022-08-19

[21] **3,232,834**
[13] A1
[51] **Int.Cl. F04D 13/06 (2006.01) F04D 29/58 (2006.01) H02K 9/06 (2006.01)**
[25] EN
[54] **VARIABLE SPEED PUMP OF AN ELECTRIC MACHINE**
[54] **POMPE A VITESSE VARIABLE D'UNE MACHINE ELECTRIQUE**
[72] SHIRAZEE, NABEEL, GB
[71] EPROPELLED INC., US
[85] 2024-03-22
[86] 2022-09-29 (PCT/US2022/077284)
[87] (WO2023/056374)
[30] IN (202141011283) 2021-09-29

[21] **3,232,836**
[13] A1
[51] **Int.Cl. G07F 15/00 (2006.01) G06Q 50/06 (2012.01) B60L 53/65 (2019.01)**
[25] EN
[54] **FORECASTING CHARGING TIME OF ELECTRIC VEHICLES**
[54] **PREVISION DU TEMPS DE CHARGE DE VEHICULES ELECTRIQUES**
[72] HEINO, ESKO, FI
[72] VEIKKOLAINEN, JUHO-EEMELI, FI
[71] KEMPOWER OYJ, FI
[85] 2024-03-22
[86] 2022-09-28 (PCT/FI2022/050650)
[87] (WO2023/052685)
[30] FI (20216007) 2021-09-29

[21] **3,232,838**
[13] A1
[51] **Int.Cl. G01N 15/00 (2024.01) G01N 23/2208 (2018.01) G01N 23/223 (2006.01) G01T 1/36 (2006.01) G21K 1/10 (2006.01) H05G 1/32 (2006.01) H05G 1/34 (2006.01)**
[25] EN
[54] **AN X-RAY FLUORESCENCE SYSTEM**
[54] **SYSTEME A FLUORESCENCE X**
[72] GANLY, BRIANNA, AU
[72] TICKNER, JAMES, AU
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2024-03-22
[86] 2022-09-20 (PCT/AU2022/051132)
[87] (WO2023/044528)
[30] AU (2021903067) 2021-09-24

[21] **3,232,839**
[13] A1
[51] **Int.Cl. G06F 16/2457 (2019.01) G06Q 30/02 (2023.01) G06F 16/9535 (2019.01) G06Q 30/06 (2023.01) G06F 16/11 (2019.01) G06F 16/16 (2019.01) G06F 16/22 (2019.01)**
[25] EN
[54] **AUTOMATED MEASUREMENT AND ANALYTICS SOFTWARE FOR OUT OF HOME CONTENT DELIVERY**
[54] **LOGICIEL DE MESURE ET D'ANALYSE AUTOMATIQUE POUR DISTRIBUTION DE CONTENU EXTERIEUR**
[72] BENNER, CRAIG G., US
[71] ACCRETIVE MEDIA LLC, US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/077035)
[87] (WO2023/049905)
[30] US (63/248,176) 2021-09-24

[21] **3,232,840**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06V 10/82 (2022.01) G06V 40/16 (2022.01) G06V 40/18 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SELECTING A MASK**
[54] **PROCEDE ET SYSTEME DE SELECTION DE MASQUE**
[72] CASSE, BENJAMIN WILSON, XX
[72] CAMPBELL, CHRISTOPHER HARDING, XX
[72] MURROW, PATRICK LIAM, XX
[72] MCCONWAY, MATTHEW JAMES, XX
[72] HAWKINS, CLIFTON JAMES, XX
[72] HAQUE, FAHAD SHAMS TAHANI BIN, XX
[71] FISHER & PAYKEL HEALTHCARE LIMITED, NZ
[85] 2024-03-22
[86] 2022-10-06 (PCT/NZ2022/050127)
[87] (WO2023/059205)
[30] US (63/262,178) 2021-10-06

[21] **3,232,842**
[13] A1
[51] **Int.Cl. F41B 15/04 (2006.01) F41H 13/00 (2006.01) G08B 7/06 (2006.01) G08B 25/10 (2006.01)**
[25] EN
[54] **GENERATING ALERTS BASED ON CONNECTION STATUS BY CONDUCTED ELECTRICAL WEAPONS**
[54] **GENERATION D'ALERTES SUR LA BASE D'UN ETAT DE CONNEXION PAR DES ARMES ELECTRIQUES CONDUITES**
[72] GISH, MICHAEL E., US
[72] SMITH, PATRICK W., US
[72] SATHYANARAYAN, VARUN, US
[71] AXON ENTERPRISE, INC., US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044455)
[87] (WO2023/204838)
[30] US (63/247,253) 2021-09-22

[21] **3,232,844**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2023.01) B60L 53/68 (2019.01)**
[25] EN
[54] **ARRANGEMENT AND METHOD FOR DATA MANAGEMENT DURING CHARGING EVENT, AND COMPUTER PROGRAM PRODUCT**
[54] **AGENCEMENT ET PROCEDE POUR LA GESTION DE DONNEES PENDANT UN EVENEMENT DE CHARGE, ET PRODUIT PROGRAMME INFORMATIQUE**
[72] ENQVIST, JUHANA, FI
[71] KEMPOWER OYJ, FI
[85] 2024-03-22
[86] 2022-09-21 (PCT/FI2022/050634)
[87] (WO2023/052677)
[30] FI (20216007) 2021-09-29
[30] FI (20225687) 2022-07-26

[21] **3,232,845**
[13] A1
[51] **Int.Cl. E05B 17/22 (2006.01) E05B 47/02 (2006.01) E05B 65/08 (2006.01)**
[25] EN
[54] **DOOR AND WINDOW SECURING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE FIXATION DE PORTE ET DE FENETRE**
[72] CONDORODIS, GEORGE, US
[71] CONDORODIS, GEORGE, US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044462)
[87] (WO2023/049306)
[30] US (63/247,352) 2021-09-23
[30] US (17517098) 2021-11-02
[30] US (17947597) 2022-09-19

[21] **3,232,846**
[13] A1
[51] **Int.Cl. A61M 5/158 (2006.01)**
[25] EN
[54] **GLUCOSE MONITOR INJECTION PORT**
[54] **ORIFICE D'INJECTION DE MONITEUR DE GLUCOSE**
[72] PRAIS, EUGENE RANDEL, US
[71] EMBECTA CORP., US
[85] 2024-03-22
[86] 2021-09-22 (PCT/US2021/051431)
[87] (WO2023/048703)

[21] **3,232,848**
[13] A1
[51] **Int.Cl. G01R 23/02 (2006.01) G01R 22/10 (2006.01) G01R 23/167 (2006.01)**
[25] EN
[54] **SAMPLING RATE CONVERTER WITH LINE FREQUENCY AND PHASE LOCKED LOOPS FOR ENERGY METERING**
[54] **CONVERTISSEUR DE TAUX D'ECHANTILLONNAGE A BOUCLES A VERROUILLAGE DE PHASE ET FREQUENCE DE LIGNE POUR UNE MESURE D'ENERGIE**
[72] BOBICK, DAVID A., US
[71] LANDIS+GYR TECHNOLOGY, INC., US
[85] 2024-03-22
[86] 2022-11-03 (PCT/US2022/048893)
[87] (WO2023/086268)
[30] US (17/522,606) 2021-11-09

[21] **3,232,850**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) C12Q 1/689 (2018.01)**
[25] EN
[54] **FAECAL MICROBIOTA SIGNATURE FOR PANCREATIC CANCER**
[54] **SIGNATURE DU MICROBIOTE FECAL POUR LE CANCER PANCREATIQUE**
[72] MALATS RIERA, NURIA, ES
[72] BORK, PEER, DE
[72] KARTAL, ECE, DE
[72] MOLINA MONTES, ESTHER, ES
[72] RODRIGUEZ, SANDRA, ES
[72] ESTUDILLO, LIDIA, ES
[72] REAL, FRANCISCO XAVIER, ES
[72] SCHMIDT, THOMAS S.B., DE
[72] ZELLER, GEORG, DE
[72] WIRBEL, JAKOB, DE
[72] MAISTRENKO, OLEKSANDR M., NL
[71] FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO), ES
[71] EUROPEAN MOLECULAR BIOLOGY LABORATORY, DE
[85] 2024-03-22
[86] 2022-09-29 (PCT/EP2022/077087)
[87] (WO2023/052486)
[30] EP (21382876.7) 2021-09-29

[21] **3,232,856**
[13] A1
[51] **Int.Cl. A61K 31/7068 (2006.01) A61K 33/243 (2019.01) A61K 31/282 (2006.01) A61K 31/4745 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **KRAS ANTAGONISTS**
[54] **ANTAGONISTES DE KRAS**
[72] KENNEDY, PHILLIP J., US
[71] TRUETIVA, INC., US
[85] 2024-03-22
[86] 2022-09-29 (PCT/US2022/045191)
[87] (WO2023/055904)
[30] US (17/449,275) 2021-09-29

[21] **3,232,857**
[13] A1
[51] **Int.Cl. A47B 96/02 (2006.01) A47B 96/20 (2006.01)**
[25] EN
[54] **REINFORCED STRUCTURE AND METHOD FOR REINFORCING SAME**
[54] **STRUCTURE RENFORCEE ET SON PROCEDE DE RENFORCEMENT**
[72] PALMER, JAMES, US
[72] EVANS, RICHARD, US
[72] MUALEM, DIKLA, IL
[71] KETER HOME AND GARDEN PRODUCTS LTD., IL
[85] 2024-03-22
[86] 2022-09-28 (PCT/IL2022/051026)
[87] (WO2023/058014)
[30] IL (287055) 2021-10-06

[21] **3,232,858**
[13] A1
[51] **Int.Cl. A23K 20/111 (2016.01) A23B 4/20 (2006.01) A23L 3/349 (2006.01)**
[25] EN
[54] **NATURAL SMOKE FLAVOR WITH ANTIOXIDANT PROPERTIES FOR USE IN PET FOODS AND/OR PET FOOD INGREDIENTS**
[54] **AROME DE FUMEE NATURELLE AYANT DES PROPRIETES ANTIOXYDANTES POUR UNE UTILISATION DANS DES ALIMENTS POUR ANIMAUX DE COMPAGNIE ET/OU DES INGREDIENTS D'ALIMENTS POUR ANIMAUX DE COMPAGNI**
[72] IGOU, JENNIFER, US
[72] VAN DER BLEEK, MARK, US
[72] SENANAYAKE, S.P. JANAKA NAMAL, US
[71] CFS NORTH AMERICA, LLC, US
[71] KERRY GROUP SERVICES INTERNATIONAL LIMITED, IE
[85] 2024-03-22
[86] 2022-09-23 (PCT/EP2022/076585)
[87] (WO2023/046927)
[30] US (63/247,568) 2021-09-23

[21] **3,232,861**
[13] A1
[51] **Int.Cl. B60T 17/22 (2006.01) F16D 65/38 (2006.01)**
[25] EN
[54] **SLACK ADJUSTER ASSEMBLY FOR HEAVY-DUTY VEHICLES**
[54] **ENSEMBLE DE RATTRAPAGE DE JEU POUR VEHICULES UTILITAIRES LOURDS**
[72] WHITE, JAY D., US
[72] SCHAEFFER, DAVID L., US
[72] DHARAIYA, DHAWAL P., US
[72] WEEKLEY, WYATT R., US
[71] HENDRICKSON USA, L.L.C., US
[85] 2024-03-22
[86] 2022-09-13 (PCT/US2022/043278)
[87] (WO2023/048986)
[30] US (63/246,829) 2021-09-22

[21] **3,232,862**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61P 25/08 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OF PCDH19 RELATED DISORDERS**
[54] **COMPOSITIONS ET METHODES POUR LE TRAITEMENT DES TROUBLES ASSOCIES A PCDH19**
[72] PETROU, STEVEN, AU
[71] THE FLOREY INSTITUTE OF NEUROSCIENCE AND MENTAL HEALTH, AU
[85] 2024-03-22
[86] 2022-09-27 (PCT/AU2022/051153)
[87] (WO2023/044545)
[30] US (63/248,803) 2021-09-27
[30] US (63/333,840) 2022-04-22

[21] **3,232,864**
[13] A1
[51] **Int.Cl. A63B 21/16 (2006.01) A63B 21/04 (2006.01) A63B 23/12 (2006.01)**
[25] EN
[54] **PILATES EXERCISE DEVICE AND METHOD**
[54] **DISPOSITIF ET PROCEDE D'EXERCICE PILATES**
[72] FARINA, KAREN, US
[71] FARINA, KAREN, US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/044534)
[87] (WO2023/049344)
[30] US (63/247,628) 2021-09-23
[30] US (17/901,271) 2022-09-01
[30] US (17/878,759) 2022-08-01
[30] US (17/558,142) 2021-12-21

[21] **3,232,865**
[13] A1
[51] **Int.Cl. F16B 39/24 (2006.01) F16B 39/06 (2006.01) F16B 39/32 (2006.01)**
[25] EN
[54] **REVERSE THREADING PROTECTORS FOR A TORQUE-LIMITING NUT**
[54] **PROTECTEURS ANTI DEVISSAGE POUR UN ECROU LIMITEUR DE COUPLE**
[72] SEEDS, LARRY, US
[72] GOLD, MARK, US
[72] GOINS, JR. HERMAN, US
[71] STEMCO PRODUCTS, INC., US
[85] 2024-03-22
[86] 2022-09-16 (PCT/US2022/043861)
[87] (WO2023/055584)
[30] US (63/250,104) 2021-09-29

[21] **3,232,866**
[13] A1
[51] **Int.Cl. A61B 6/10 (2006.01)**
[25] EN
[54] **DEVICES TO REDUCE RADIATION EXPOSURE**
[54] **DISPOSITIFS POUR REDUIRE L'EXPOSITION AU RAYONNEMENT**
[72] WILSON, ROBERT F., US
[72] GAINOR, JOHN P., US
[72] ALLEN, BLAIR, US
[72] BURMASTER, WILLIAM J., US
[71] EGG MEDICAL, INC., US
[85] 2024-03-22
[86] 2022-10-19 (PCT/US2022/047164)
[87] (WO2023/069543)
[30] US (63/270,309) 2021-10-21
[30] US (63/341,894) 2022-05-13

[21] **3,232,867**
[13] A1
[51] **Int.Cl. B27M 1/02 (2006.01)**
[25] FR
[54] **WOOD SHAPING METHOD**
[54] **PROCEDE DE FORMAGE DU BOIS**
[72] TORRIANI, LAURENT, CH
[72] CHAPELAT, CAROLE, CH
[71] CREAHOLIC SA, CH
[85] 2024-03-22
[86] 2022-09-23 (PCT/IB2022/059014)
[87] (WO2023/047347)
[30] CH (070308/2021) 2021-09-24

[21] **3,232,868**
[13] A1
[51] **Int.Cl. E03F 1/00 (2006.01) E03F 7/12 (2006.01) F17D 5/00 (2006.01) G01D 5/353 (2006.01)**
[25] EN
[54] **FLEXIBLE ELONGATE MEMBERS IN SEWAGE PIPELINES OR CHANNELS**
[54] **ELEMENTS ALLONGES FLEXIBLES DANS DES CANAUX OU DES CANALISATIONS D'EAUX D'EGOUT**
[72] TALGO, MORTEN, NO
[71] LEAK DETECTOR AS, NO
[85] 2024-03-22
[86] 2022-09-27 (PCT/NO2022/050222)
[87] (WO2023/048580)
[30] NO (20211153) 2021-09-27

[21] **3,232,869**
[13] A1
[51] **Int.Cl. H02J 3/06 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM CONCERNING A NETWORK FOR THE DISTRIBUTION OF ELECTRICITY**
[54] **PROCEDE ET SYSTEME CONCERNANT UN RESEAU DE DISTRIBUTION D'ELECTRICITE**
[72] BAUER, ALBERTO, AE
[71] BAUER, ALBERTO, AE
[85] 2024-03-22
[86] 2022-09-15 (PCT/IT2022/000047)
[87] (WO2023/047425)
[30] IT (102021000024530) 2021-09-24

[21] **3,232,870**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61P 31/14 (2006.01) C07K 14/00 (2006.01)**
[25] EN
[54] **CORONAVIRUS VACCINES AND METHODS OF USE**
[54] **VACCINS CONTRE LE CORONAVIRUS ET METHODES D'UTILISATION**
[72] GAYNOR, RICHARD B., US
[72] HARJANTO, DEWI, US
[72] ARIETA, CHRISTINA MURPHY, US
[72] ROTHENBERG, DANIEL ABRAM, US
[72] SROUJI, JOHN, US
[72] KRUMM, STEFANIE, DE
[72] VOGEL, ANNETTE, DE
[72] SAHIN, UGUR, DE
[72] XIE, YUSHU JOY, US
[72] SRINIVASAN, LAKSHMI, US
[72] PORAN, ASAF, US
[72] THANKI, KAUSHIK, DE
[71] BIONTECH SE, DE
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044400)
[87] (WO2023/049272)
[30] US (63/246,902) 2021-09-22
[30] US (63/320,187) 2022-03-15

[21] **3,232,871**
[13] A1
[51] **Int.Cl. A01C 1/06 (2006.01) A01N 25/00 (2006.01) A01N 59/06 (2006.01)**
[25] EN
[54] **AGRICULTURAL SEED COATINGS WITH INCORPORATED ALUMINUM OXIDE AND METHODS FOR FORMING**
[54] **ENROBAGES AGRICOLES DE SEMENCE AYANT DE L?OXYDE D?ALUMINIUM INCORPORE ET PROCEDES DE FORMATION**
[72] WALTZ, AARON, US
[72] ISAACSON, KYLE J., US
[72] WELIKHE, PAULINE, US
[71] PHOSPHOLUTIONS INC., US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044369)
[87] (WO2023/049253)
[30] US (63/247,574) 2021-09-23

[21] **3,232,872**
[13] A1
[51] **Int.Cl. D21C 3/22 (2006.01) D21C 3/26 (2006.01)**
[25] EN
[54] **A METHOD FOR CHEMICAL PULP PRODUCTION IN A MULTI-STAGE PROCESS**
[54] **PROCEDE DE PRODUCTION DE PATE A PAPIER CHIMIQUE DANS UN TRAITEMENT A PLUSIEURS ETAPES**
[72] LARSSON, OLA, SE
[72] BERGMANN, MICHAEL, AT
[72] PYYKONEN, HANNU, FI
[72] PIIRA, JUSSI, FI
[72] HANNIMAKI, ARI, FI
[72] KAIPAINEN, VESA, FI
[72] KINNUNEN, SAMULI, FI
[71] ANDRITZ AB, SE
[85] 2024-03-22
[86] 2022-10-06 (PCT/SE2022/050899)
[87] (WO2023/059256)
[30] FI (20216040) 2021-10-08

[21] **3,232,874**
[13] A1
[51] **Int.Cl. A61K 31/7048 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **HYGROMYCIN A FOR TREATMENT OF DISEASES AND INFECTIONS**
[54] **HYGROMYCINE A POUR LE TRAITEMENT DE MALADIES ET D'INFECTIONS**
[72] TINDALL, MATTHEW CHARLES, US
[72] LEWIS, KIM, US
[71] FLIGHTPATH BIOSCIENCES, INC., US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/076947)
[87] (WO2023/049849)
[30] US (63/247,927) 2021-09-24
[30] US (63/247,928) 2021-09-24
[30] US (63/247,929) 2021-09-24

[21] **3,232,875**
[13] A1
[51] **Int.Cl. B60L 53/65 (2019.01) G06Q 30/02 (2023.01) G07F 15/00 (2006.01)**
[25] EN
[54] **APPARATUS, ARRANGEMENT, CHARGING APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR CONTROLLING CHARGING EVENT**
[54] **APPAREIL, AGENCEMENT, APPAREIL DE CHARGE, PROCEDE ET PRODUIT DE PROGRAMME INFORMATIQUE POUR COMMANDER UN EVENEMENT DE CHARGE**
[72] HEINO, ESKO, FI
[72] VEIKKOLAINEN, JUHO-EEMELI, FI
[72] VARKKI, JUHA, FI
[71] KEMPOWER OYJ, FI
[85] 2024-03-22
[86] 2022-09-23 (PCT/FI2022/050641)
[87] (WO2023/052679)
[30] FI (20216007) 2021-09-29

[21] **3,232,876**
[13] A1
[51] **Int.Cl. A23L 33/115 (2016.01) C12P 7/6481 (2022.01) A61K 9/48 (2006.01) A61K 31/23 (2006.01) A61K 31/685 (2006.01) A61K 47/14 (2017.01) A61K 47/24 (2006.01)**
[25] EN
[54] **ENZYMATICALLY SYNTHESIZED OMEGA-3 AND OMEGA-6 STRUCTURED POLAR LIPIDS**
[54] **LIPIDES POLAIRES A STRUCTURE OMEGA -3 ET OMEGA -6 SYNTHETISES PAR VOIE ENZYMATIQUE**
[72] GUTIERREZ, WILSON MARTINEZ, CO
[72] PADILLA, ALVARO JOSE GARCIA, CO
[72] SIMANCA, ALFREDO DE JESUS PUCHE, CO
[72] BUSTILLO, TATIANA LUCIA YEPES, CO
[71] PROCAPS SA, US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044457)
[87] (WO2023/049302)
[30] US (63/246,898) 2021-09-22
[30] US (17/951,048) 2022-09-21

[21] **3,232,877**
[13] A1
[51] **Int.Cl. G01N 27/327 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL APTAMER SENSOR MONOLAYER INCUBATION WITH IMPROVED STABILITY**
[54] **INCUBATION MONOCOUCHE DE CAPTEUR D'APTAMERE ELECTROCHIMIQUE A STABILITE AMELIOREE**
[72] KARAJIC, ALEKSANDER, US
[72] WATKINS, ZACHARY LEE, US
[72] HEIKENFELD, JASON CHARLES, US
[71] UNIVERSITY OF CINCINNATI, US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/044504)
[87] (WO2023/049324)
[30] US (63/248,016) 2021-09-24

[21] **3,232,878**
[13] A1
[51] **Int.Cl. F16N 7/38 (2006.01) F16N 11/08 (2006.01) F16N 25/02 (2006.01) F16N 27/02 (2006.01)**
[25] EN
[54] **CARTRIDGE INJECTOR AND MANIFOLD**
[54] **INJECTEUR DE CARTOUCHE ET COLLECTEUR**
[72] EBBEN, JAMES R., US
[72] TICHY, DUSTIN A., US
[72] KUSCHEL, ANTHONY J., US
[72] LOWY, ANDREW P., US
[72] NIJAGUNA, SURESHA SARAGUR, US
[72] KAHLER, BRADLEY G., US
[72] JENSEN, DANIEL M., US
[72] LOWY, ANDREW P., US
[71] GRACO MINNESOTA INC., US
[85] 2024-03-22
[86] 2022-09-27 (PCT/US2022/044851)
[87] (WO2023/055722)
[30] US (63/250,594) 2021-09-30
[30] US (63/263,537) 2021-11-04

[21] **3,232,879**
[13] A1
[51] **Int.Cl. H02J 3/06 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM CONCERNING AN ELECTRIC POWER DISTRIBUTION LINE**
[54] **PROCEDE ET SYSTEME CONCERNANT UNE LIGNE DE DISTRIBUTION D'ENERGIE ELECTRIQUE**
[72] BAUER, ALBERTO, AE
[71] BAUER, ALBERTO, AE
[85] 2024-03-22
[86] 2022-09-15 (PCT/IT2022/000048)
[87] (WO2023/047426)
[30] IT (102021000024532) 2021-09-24

[21] **3,232,880**
[13] A1
[51] **Int.Cl. H04B 10/25 (2013.01) H04H 20/78 (2009.01) H03F 3/22 (2006.01)**
[25] EN
[54] **HALF DUPLEX AMPLIFIER**
[54] **AMPLIFICATEUR SEMI-DUPLEX**
[72] MARICEVIC, ZORAN, US
[72] SCHEMMANN, MARCEL F.C., US
[72] SUN, ZHIJIAN, US
[72] SHETTY, SHODHAN K., US
[72] PAINCHAUD, DEAN, US
[72] SOLOMON, BRIAN J., US
[71] ARRIS ENTERPRISES LLC, US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/044751)
[87] (WO2023/049464)
[30] US (63/248,256) 2021-09-24

[21] **3,232,881**
[13] A1
[51] **Int.Cl. C12Q 1/26 (2006.01) G01N 27/327 (2006.01)**
[25] EN
[54] **ELECTROCHEMICAL APTAMER SENSORS WITH STABLE BLOCKING LAYERS, RAPID ELECTRON TRANSFER AND ROBUST ANTIFOULING PROPERTIES**
[54] **CAPTEURS D'APTAMERES ELECTROCHIMIQUES A COUCHES DE BLOCAGE STABLES, TRANSFERT D'ELECTRONS RAPIDE ET PROPRIETES ANTI-ENCRASSEMENT ROBUSTES**
[72] HEIKENFELD, JASON CHARLES, US
[72] WATKINS, ZACH, US
[72] KARAJIC, ALEKSANDAR, US
[71] UNIVERSITY OF CINCINNATI, US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/044512)
[87] (WO2023/049328)
[30] US (63/248,016) 2021-09-24
[30] US (63/282,440) 2021-11-23
[30] US (63/307,215) 2022-02-07
[30] US (63/339,196) 2022-05-06

[21] **3,232,882**
[13] A1
[51] **Int.Cl. C08J 11/08 (2006.01) C10G 11/02 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR OBTAINING HYDROCARBONS FROM POLYMER WASTE**
[54] **PROCEDE ET DISPOSITIF DE PRODUCTION D'HYDROCARBURES A PARTIR DE DECHETS POLYMERES**
[72] PANFEROV, ANDREY ANATOLIEVICH, RU
[72] ORONOV, MARK IGOREVICH, RU
[72] SMIRNOV, DMITRY EVGENIEVICH, RU
[71] VIPS ENGINEERING LIMITED LIABILITY COMPANY, RU
[85] 2024-03-22
[86] 2022-09-19 (PCT/RU2022/050298)
[87] (WO2023/048600)
[30] RU (2021127920) 2021-09-23

[21] **3,232,883**
[13] A1
[51] **Int.Cl. C07C 233/07 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF BACTERIAL TOXINS**
[54] **INHIBITEURS A PETITES MOLECULES DE TOXINES BACTERIENNES**
[72] HOEKSTRA, WILLIAM, US
[72] RYU, HYUNJI, US
[72] CHINTHA, PRIYANKA, US
[72] SHAVER, SAMMY R., US
[71] ARTIZAN BIOSCIENCES, INC., US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/076836)
[87] (WO2023/049785)
[30] US (63/248,094) 2021-09-24

[21] **3,232,884**
[13] A1
[51] **Int.Cl. G01N 27/22 (2006.01) G01V 3/10 (2006.01)**
[25] EN
[54] **SCANNER FOR DETECTING OBJECTS BEHIND AN OPAQUE SURFACE**
[54] **DISPOSITIF DE BALAYAGE DESTINE A LA DETECTION D'OBJETS SITUES DERRIERE UNE SURFACE OPAQUE**
[72] CHEN, CHIEN-HSU, US
[71] ZIRCON CORPORATION, US
[85] 2024-03-22
[86] 2022-08-16 (PCT/US2022/040451)
[87] (WO2023/048852)
[30] US (17/484,613) 2021-09-24

[21] **3,232,885**
[13] A1
[51] **Int.Cl. B60L 53/67 (2019.01) G06Q 50/06 (2012.01) G07F 15/00 (2006.01)**
[25] EN
[54] **CHARGING ARRANGEMENT AND METHOD FOR CONTROLLING CHARGING OF ELECTRIC VEHICLES AND COMPUTER PROGRAM PRODUCT**
[54] **AGENCEMENT DE CHARGE ET PROCEDE DE COMMANDE DE CHARGE DE VEHICULES ELECTRIQUES, ET PRODUIT DE PROGRAMME INFORMATIQUE**
[72] ENQVIST, JUHANA, FI
[72] VARKKI, JUHA, FI
[72] VEIKKOLAINEN, MIKKO, FI
[71] KEMPOWER OYJ, FI
[85] 2024-03-22
[86] 2022-09-22 (PCT/FI2022/050639)
[87] (WO2023/052678)
[30] FI (20216007) 2021-09-29
[30] FI (20225573) 2022-06-23

[21] **3,232,886**
[13] A1
[51] **Int.Cl. A01K 7/02 (2006.01) A01K 5/02 (2006.01)**
[25] EN
[54] **SELF-FILLING AND SELF-CLEANING PET BOWL**
[54] **BOL POUR ANIMAL DE COMPAGNIE A AUTO-REMPLISSAGE ET AUTO-NETTOYAGE**
[72] MADORE, AUSTIN, US
[71] MADORE, AUSTIN, US
[85] 2024-03-22
[86] 2022-10-07 (PCT/US2022/046101)
[87] (WO2023/069265)
[30] US (63/257,271) 2021-10-19

[21] **3,232,887**
[13] A1
[51] **Int.Cl. C12P 5/02 (2006.01) C12P 7/16 (2006.01) C12P 7/42 (2006.01) C12P 7/52 (2006.01)**
[25] EN
[54] **GAS FERMENTATION CONVERSION OF CARBON DIOXIDE INTO PRODUCTS**
[54] **CONVERSION PAR FERMENTATION DE GAZ DE DIOXYDE DE CARBONE EN PRODUITS**
[72] ROSIN, RICHARD RUSSELL, US
[72] YU, YEN-LU, US
[72] ROLLAG, SEAN ALEX, US
[72] SCHULZ, TAYLOR CRAIG, US
[72] CONRADO, ROBERT JOHN, US
[71] LANZATECH, INC., US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/076908)
[87] (WO2023/056218)
[30] US (63/251,681) 2021-10-03

[21] **3,232,888**
[13] A1
[51] **Int.Cl. E04B 2/94 (2006.01)**
[25] EN
[54] **CONSTRUCTION PROVIDED WITH FACADE PANELS AND METHOD FOR PRODUCING SUCH A CONSTRUCTION**
[54] **CONSTRUCTION MUNIE DE PANNEAUX DE FAC?ADES ET PROCE?DE? DE FABRICATION D'UNE TELLE CONSTRUCTION**
[72] NOCA, LAURENT, FR
[72] COCHET, FRANCOIS, FR
[71] CARBON CAPTURE BUILDINGS GREENTECH, FR
[85] 2024-03-22
[86] 2022-09-20 (PCT/EP2022/076094)
[87] (WO2023/046679)
[30] FR (FR2110020) 2021-09-23

[21] **3,232,889**
[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01)**
[25] EN
[54] **HANDOVER METHOD, COMMUNICATION APPARATUS, AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE DE COMMUTATION, DISPOSITIF DE COMMUNICATION ET SUPPORT D'ENREGISTREMENT INFORMATIQUE**
[72] FANG, YUZHE, CN
[72] PENG, WENJIE, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-22
[86] 2022-09-15 (PCT/CN2022/118902)
[87] (WO2023/051259)
[30] CN (202111162361.2) 2021-09-30

[21] **3,232,890**
[13] A1
[51] **Int.Cl. B60N 2/00 (2006.01) B64D 11/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR IN-FLIGHT DETECTION OF PHYSIOLOGICAL DATA AND KIT FOR IN-FLIGHT MONITORING OF PHYSIOLOGICAL PARAMETERS**
[54] **SYSTEME DE DETECTION EN VOL DE DONNEES PHYSIOLOGIQUES ET KIT DE SURVEILLANCE EN VOL DE PARAMETRES PHYSIOLOGIQUES**
[72] NOSHARI, ARASH, DE
[72] THAHER, RAMI, DE
[72] OEHLER, MARTIN, DE
[71] AIRCRAFT CABIN MODIFICATION GMBH, DE
[85] 2024-03-22
[86] 2022-09-21 (PCT/EP2022/076146)
[87] (WO2023/046707)
[30] EP (21198904.1) 2021-09-24

[21] **3,232,891**
[13] A1
[51] **Int.Cl. H02H 3/093 (2006.01) H02H 7/04 (2006.01) G01R 22/10 (2006.01) H02H 3/06 (2006.01) H02H 3/10 (2006.01)**
[25] EN
[54] **OPTIMIZED TRANSFORMER PROTECTION**
[54] **PROTECTION DE TRANSFORMATEUR OPTIMISEE**
[72] TOBIN, THOMAS J., US
[71] S&C ELECTRIC COMPANY, US
[85] 2024-03-22
[86] 2022-07-29 (PCT/US2022/038755)
[87] (WO2023/059393)
[30] US (63/253,350) 2021-10-07

[21] **3,232,892**
[13] A1
[51] **Int.Cl. G02B 1/04 (2006.01)**
[25] EN
[54] **CATIONIC CONTACT LENS**
[54] **LENTILLE DE CONTACT CATIONIQUE**
[72] JI, YUAN, US
[72] LIU, YUWEN, US
[72] LEE, HYO JEANG, US
[71] COOPERVISION INTERNATIONAL LIMITED, GB
[85] 2024-03-22
[86] 2023-06-13 (PCT/GB2023/051533)
[87] (WO2023/242552)
[30] US (63/351,443) 2022-06-13

[21] **3,232,893**
[13] A1
[51] **Int.Cl. A63F 3/06 (2006.01) A63F 3/08 (2006.01) A63F 9/24 (2006.01) G07F 17/32 (2006.01) G07F 17/42 (2006.01)**
[25] FR
[54] **METHOD, DEVICE AND COMPUTER PROGRAM FOR CONTEXTUAL ADAPTATION OF PHYGITAL GAMES**
[54] **PROCEDE, DISPOSITIF ET PROGRAMME D'ORDINATEUR D'ADAPTATION CONTEXTUELLE DE JEUX PHYGITAUX**
[72] MEYNIEUX, ERIC, FR
[72] THEYS, REMI, FR
[72] HUGUENIN, OLIVIER, FR
[71] FDJ GAMING SOLUTIONS FRANCE, FR
[85] 2024-03-22
[86] 2022-10-17 (PCT/FR2022/051955)
[87] (WO2023/067274)
[30] FR (2111258) 2021-10-22

[21] **3,232,894**
[13] A1
[51] **Int.Cl. G06V 10/24 (2022.01) G06V 10/75 (2022.01) G06V 10/82 (2022.01) G06V 40/16 (2022.01) G06V 40/50 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROCESSING BIOMETRIC CHARACTERISTICS**
[54] **SYSTEME ET PROCEDE DE TRAITEMENT DE CARACTERISTIQUES BIOMETRIQUES**
[72] ABRAHAM, ELDHO, FR
[72] SARANGI, SANJAYA KUMAR, FR
[71] AMADEUS S.A.S, FR
[85] 2024-03-22
[86] 2022-07-07 (PCT/EP2022/068948)
[87] (WO2023/051966)
[30] EP (21306382.9) 2021-10-01

[21] **3,232,895**
[13] A1
[51] **Int.Cl. B32B 3/06 (2006.01) B32B 5/18 (2006.01) B32B 7/06 (2019.01) B32B 7/12 (2006.01) B32B 27/06 (2006.01) B32B 27/08 (2006.01) B32B 27/36 (2006.01)**
[25] EN
[54] **A WALL PANEL**
[54] **PANNEAU MURAL**
[72] CALLENS, LANDER WINDEKIND, BE
[71] EAUZON, BE
[85] 2024-03-22
[86] 2022-08-22 (PCT/EP2022/073352)
[87] (WO2023/057124)
[30] EP (21201785.9) 2021-10-08

[21] **3,232,896**
[13] A1
[51] **Int.Cl. A23B 7/148 (2006.01) B65B 25/04 (2006.01) B65B 61/02 (2006.01) B65D 81/20 (2006.01) B65D 81/24 (2006.01) B65D 85/34 (2006.01) B65D 85/50 (2006.01)**
[25] EN
[54] **PACKAGE FOR PRESERVING RESPIRING PRODUCE AND METHOD**
[54] **EMBALLAGE POUR LA CONSERVATION DE PRODUITS RESPIRANTS ET PROCEDE**
[72] GROENEWEG, BASTIAAN RINKE ANTONY, NL
[71] PERFO KNOWLEDGY B.V., NL
[85] 2024-03-22
[86] 2022-08-22 (PCT/EP2022/073360)
[87] (WO2023/061645)
[30] NL (2029437) 2021-10-15

[21] **3,232,897**
[13] A1
[51] **Int.Cl. A47J 42/42 (2006.01) A24B 7/08 (2006.01) A47J 42/16 (2006.01) A47J 42/30 (2006.01)**
[25] EN
[54] **MULTI-PURPOSE SMOKING ACCESSORY DEVICE WITH AUDIO SOUND SYSTEM**
[54] **DISPOSITIF ACCESSOIRE A FUMER MULTI-USAGE AVEC SYSTEME SONORE AUDIO**
[72] POUGH, ALSTON, US
[71] POUGH, ALSTON, US
[85] 2024-03-22
[86] 2022-10-11 (PCT/US2022/046298)
[87] (WO2023/064287)
[30] US (63/254,392) 2021-10-11

[21] **3,232,898**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) G16H 50/20 (2018.01) A61B 5/02 (2006.01)**
[25] EN
[54] **MULTIVALENT POLYCATION INHIBITION OF POLYANIONS IN BLOOD**
[54] **INHIBITION DE POLYANIONS DANS LE SANG PAR POLYCATION MULTIVALENT**
[72] MORRISSEY, JAMES H., US
[72] SMITH, STEPHANIE A., US
[72] KIZHAKKEDATHU, JAYACHANDRAN N., CA
[72] LA, CHANEL C., CA
[72] HAYES, CHARLES A., CA
[72] VAPPALA, SREEPARNA, CA
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[71] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2024-03-22
[86] 2022-09-21 (PCT/US2022/044259)
[87] (WO2023/049184)
[30] US (63/247,635) 2021-09-23

[21] **3,232,899**
[13] A1
[51] **Int.Cl. G06F 21/55 (2013.01) G06F 21/56 (2013.01) G06F 21/57 (2013.01) H04L 9/40 (2022.01)**
[25] EN
[54] **SECURITY ECOSYSTEM**
[54] **ECOSYSTEME DE SECURITE**
[72] LIM, BING QIN, MY
[72] HO, SHYAN JENQ, MY
[72] CHONG, CHUNG YONG, MY
[72] GOH, ZHE QIAN, MY
[71] MOTOROLA SOLUTIONS, INC., US
[85] 2024-03-22
[86] 2022-09-12 (PCT/US2022/043178)
[87] (WO2023/059424)
[30] US (17/449,823) 2021-10-04

[21] **3,232,900**
[13] A1
[51] **Int.Cl. G01B 11/06 (2006.01)**
[25] EN
[54] **ASSEMBLY FOR MEASURING THE THICKNESS OF A CONTINUOUS MATERIAL WEB**
[54] **ASSEMBLAGE POUR MESURER L'EPAISSEUR D'UNE BANDE CONTINUE DE MATERIAU**
[72] HACKFORT, THOMAS, DE
[72] LANSING, CHRISTOPH, DE
[72] KLEINGRIES, CARSTEN, DE
[72] WANTIA, GERRIT, DE
[71] MATTHEWS INTERNATIONAL GMBH, DE
[71] MATTHEWS INTERNATIONAL CORPORATION, US
[85] 2024-03-22
[86] 2022-08-26 (PCT/DE2022/100640)
[87] (WO2023/046228)
[30] EP (21198570.0) 2021-09-23

[21] **3,232,901**
[13] A1
[51] **Int.Cl. B65B 13/06 (2006.01) B65B 13/04 (2006.01)**
[25] EN
[54] **ASSEMBLY, STRAP GUIDING DEVICE AND METHOD FOR PROVIDING A BULKY ITEM WITH A STRAP**
[54] **ENSEMBLE, DISPOSITIF DE GUIDAGE DE SANGLE ET PROCEDE POUR FOURNIR UN ARTICLE VOLUMINEUX AVEC UNE SANGLE**
[72] SPAANS, JOHAN, NL
[71] TEBULO INDUSTRIAL AUTOMATION B.V., NL
[85] 2024-03-22
[86] 2022-09-23 (PCT/EP2022/076587)
[87] (WO2023/046928)
[30] NL (2029238) 2021-09-24

[21] **3,232,902**
[13] A1
[51] **Int.Cl. C25B 1/135 (2021.01) C01B 32/16 (2017.01) C25B 9/09 (2021.01) C25B 11/046 (2021.01) C25B 11/02 (2021.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR MAKING CARBON NANOMATERIALS AND METHODS USING LITHIUM-FREE ELECTROLYTES**
[54] **PROCEDE ET APPAREIL DE FABRICATION DE NANOMATERIAUX DE CARBONE ET PROCEDES FAISANT INTERVENIR DES ELECTROLYTES SANS LITHIUM**
[72] LICHT, STUART, US
[72] LICHT, GAD, US
[71] C2CNT LLC, US
[85] 2024-03-22
[86] 2022-09-29 (PCT/US2022/045243)
[87] (WO2023/196009)
[30] US (63/250,662) 2021-09-30

[21] **3,232,903**
[13] A1
[25] EN
[54] **OILSEED RAPE GREEN REVOLUTION GENE BGR AND USE THEREOF**
[54] **GENE DE COLZA DE REVOLUTION VERTE DE TYPE BGR ET UTILISATION CONNEXE**
[72] HU, ZANMIN, CN
[72] FAN, CHENGMING, CN
[72] CHEN, YUHONG, CN
[72] GUO, XUPENG, CN
[72] LI, SHUANGSHUANG, CN
[71] INSTITUTE OF GENETICS AND DEVELOPMENTAL BIOLOGY,, CN
[85] 2024-03-22
[86] 2022-11-08 (PCT/CN2022/130530)
[87] (3232903)
[30] CN (202211177399.1) 2022-09-26

[21] **3,232,904**
[13] A1
[51] **Int.Cl. A47J 44/00 (2006.01) G07F 17/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING MEAL ORDER, PREPARATION AND DELIVERY SERVICE**
[54] **SYSTEME ET PROCEDE POUR FOURNIR UN SERVICE DE COMMANDE, DE PREPARATION ET DE LIVRAISON DE REPAS**
[72] IVANOV, EGOR, ES
[72] TERRAZA FARRE, MANEL, ES
[72] ARTEMEV, VASILII, ES
[72] CARRASCO ZANINI, PABLO, ES
[72] NAVAS ESCOBAR, ANDRES FELI, ES
[72] KWON, MIN GU, ES
[72] MENNA, MATTEO, ES
[72] ANDREEV, ALEKSANDR, ES
[72] ZAITAEV, IUNUS, ES
[72] HUTT, JOHN ALEXANDER, ES
[71] REMY ROBOTICS SL, ES
[85] 2024-03-22
[86] 2022-09-28 (PCT/EP2022/077066)
[87] (WO2023/052478)
[30] NL (2029276) 2021-09-29

[21] **3,232,905**
[13] A1
[51] **Int.Cl. B60T 13/74 (2006.01)**
[25] EN
[54] **BRAKE SYSTEM AND VEHICLE HAVING SAME**
[54] **SYSTEME DE FREINAGE ET VEHICULE EQUIPE DE CELUI-CI**
[72] HE, ZHONGCHANG, CN
[72] XIONG, WEI, CN
[72] LI, YIHUI, CN
[72] LV, DANDAN, CN
[72] XU, JIANDONG, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-22
[86] 2022-11-08 (PCT/CN2022/130522)
[87] (WO2023/083159)
[30] CN (202111317737.2) 2021-11-09

[21] **3,232,906**
[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/435 (2006.01) A61K 31/4545 (2006.01) A61K 31/505 (2006.01)**
[25] EN
[54] **PI3K-ALPHA INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE PI3K-ALPHA ET LEURS PROCEDES D'UTILISATION**
[72] BOEZIO, ALESSANDRO, US
[72] TAYLOR, ALEXANDER M., US
[72] ZHANG, JUNYI, US
[72] SHORTSLEEVES, KELLEY C., US
[72] PIERCE, LEVI CHARLES THOMAS, US
[72] MCLEAN, THOMAS H., US
[72] KAPLAN, ANNA, US
[72] MADEC, AMAEL, US
[72] HUDSON, BRANDI M., US
[72] MA, JUN, US
[72] PAN, YUE, US
[72] MAERTENS, GAETAN, CA
[72] OUTIN, JOHANNE, CA
[71] RELAY THERAPEUTICS, INC., US
[85] 2024-03-22
[86] 2022-10-07 (PCT/US2022/077801)
[87] (WO2023/060262)
[30] US (63/262,237) 2021-10-07
[30] US (63/364,601) 2022-05-12
[30] US (63/371,177) 2022-08-11

[21] **3,232,907**
[13] A1
[51] **Int.Cl. F16B 19/00 (2006.01) F16B 5/06 (2006.01) F16B 21/08 (2006.01)**
[25] EN
[54] **METHOD FOR REDUCING LOCALIZED DEFORMATION IN SNAP-IN FEATURES**
[54] **PROCEDE DE REDUCTION DE DEFORMATION LOCALISEE DANS DES ELEMENTS D'ENCLIQUETAGE**
[72] STRAUCH, CHRISTOPHER A., US
[71] S & C ELECTRIC COMPANY, US
[85] 2024-03-23
[86] 2022-07-29 (PCT/US2022/038757)
[87] (WO2023/059394)
[30] US (63/253,358) 2021-10-07

[21] **3,232,908**
[13] A1
[51] **Int.Cl. G01R 19/257 (2006.01) G01R 19/25 (2006.01) H02H 3/26 (2006.01) H02H 3/48 (2006.01) G01R 19/252 (2006.01) G01R 27/28 (2006.01)**
[25] EN
[54] **IMPROVED ACCURACY FOR PHASOR MEASUREMENT UNITS (SYNCHROPHASORS) IN UTILITY DISTRIBUTION APPLICATIONS**
[54] **PRECISION AMELIOREE POUR DES UNITES DE MESURE DE PHASEUR (SYNCHROPHASEURS) DANS DES APPLICATIONS DE DISTRIBUTION DE SERVICES PUBLICS**
[72] MEISINGER, MICHAEL JOHN, US
[72] CURTISS, PETER S., US
[72] SHARON, YOAV, US
[72] QUINLAN, MICHAEL, US
[71] S&C ELECTRIC COMPANY, US
[85] 2024-03-23
[86] 2022-09-13 (PCT/US2022/043310)
[87] (WO2023/075942)
[30] US (63/272,211) 2021-10-27

[21] **3,232,910**
[13] A1
[51] **Int.Cl. H02J 3/06 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM RELATING TO AN ELECTRICITY DISTRIBUTION LINE**
[54] **PROCEDE ET SYSTEME RELATIFS A UNE LIGNE DE DISTRIBUTION D'ELECTRICITE**
[72] BAUER, ALBERTO, AE
[71] BAUER, ALBERTO, AE
[85] 2024-03-25
[86] 2022-09-15 (PCT/IT2022/000049)
[87] (WO2023/047427)
[30] IT (102021000024534) 2021-09-24

[21] **3,232,911**
[13] A1
[51] **Int.Cl. C11D 3/04 (2006.01) C11D 3/20 (2006.01) C11D 3/50 (2006.01) C11D 7/08 (2006.01) C11D 7/10 (2006.01) C11D 7/26 (2006.01) C11D 11/00 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **ACIDIC LIQUID FABRIC CARE COMPOSITIONS**
[54] **COMPOSITIONS LIQUIDES ACIDES POUR L'ENTRETIEN DE TEXTILES**
[72] ROEDER, RACHEL MORGAN, US
[72] RINKER, JENNIFER LEA, US
[72] DECLERCQ, MARC JOHAN, BE
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-25
[86] 2022-11-01 (PCT/US2022/079011)
[87] (WO2023/081624)
[30] EP (21205850.7) 2021-11-02

[21] **3,232,912**
[13] A1
[51] **Int.Cl. B01D 53/02 (2006.01) C07C 29/152 (2006.01) C10G 5/06 (2006.01)**
[25] EN
[54] **MODULAR METHANOL UPGRADING HUB METHODS AND SYSTEMS**
[54] **PROCEDES ET SYSTEMES ASSOCIES A UN MOYEU DE VALORISATION DE METHANOL MODULAIRE**
[72] YELVINGTON, PAUL E., US
[72] DEAN, JOHN ANTHONY, US
[72] BROWNE, JOSHUA B., US
[72] YIK, EDWIN, US
[71] M2X ENERGY INC., US
[85] 2024-03-25
[86] 2022-09-26 (PCT/US2022/044724)
[87] (WO2023/049450)
[30] US (63/248,519) 2021-09-26
[30] US (PCT/US2022/029708) 2022-05-17
[30] US (PCT/US2022/029707) 2022-05-17

[21] **3,232,913**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61P 9/10 (2006.01) A61P 11/06 (2006.01) A61P 13/08 (2006.01) A61P 13/10 (2006.01) A61P 13/12 (2006.01) A61P 17/10 (2006.01) A61P 19/02 (2006.01) A61P 19/08 (2006.01) A61P 25/06 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF MACROCYCLIC COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **FORME CRISTALLINE D'UN COMPOSE MACROCYCLIQUE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] GUO, RUIZHI, CN
[72] WANG, JIANSONG, CN
[72] LUO, ZHIBO, CN
[72] HUANG, HAIWEN, CN
[72] QIN, FEI, CN
[72] WANG, WEI, CN
[72] YE, HAIHONG, CN
[72] QIAN, RIBIN, CN
[71] HITGEN INC., CN
[85] 2024-03-18
[86] 2022-05-17 (PCT/CN2022/093322)
[87] (WO2023/045360)
[30] CN (202111111449.1) 2021-09-22

[21] **3,232,914**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/194 (2006.01) A61K 31/198 (2006.01) A61K 31/375 (2006.01) A61K 31/4745 (2006.01) A61P 25/00 (2006.01) A61P 25/18 (2006.01) A61P 25/24 (2006.01) C07C 59/255 (2006.01) C07C 229/24 (2006.01) C07D 307/62 (2006.01)**
[25] EN
[54] **LSD DERIVATIVES, SYNTHESIS & METHOD FOR TREATMENT OF DISEASES AND DISORDERS**
[54] **DERIVES DE LSD, SYNTHESE ET METHODE POUR TRAITER DES MALADIES ET DES TROUBLES**
[72] SHESHBARADARAN, HOOSHMAND, CA
[72] RUDGE, SCOTT, US
[72] GHAFFARI, ABDI, CA
[72] SODERMAN, STEFAN, CA
[72] DUSPARA, PETAR, CA
[71] BLIFE THERAPEUTICS INC., CA
[85] 2024-03-19
[86] 2022-09-20 (PCT/CA2022/051396)
[87] (WO2023/039682)
[30] US (63/246,290) 2021-09-20
[30] US (63/341,388) 2022-05-12

[21] **3,232,916**
[13] A1
[51] **Int.Cl. H04W 12/062 (2021.01)**
[25] EN
[54] **COMMUNICATION METHOD AND COMMUNICATION DEVICE**
[54] **PROCEDE DE COMMUNICATION ET DISPOSITIF DE COMMUNICATION**
[72] XU, YISHAN, CN
[72] HU, LI, CN
[72] ZHU, HUALIN, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-19
[86] 2022-09-16 (PCT/CN2022/119177)
[87] (WO2023/040995)
[30] CN (202111101555.1) 2021-09-19

[21] **3,232,917**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **AGONISTIC CD40 ANTIBODIES AS IMMUNE STIMULATORY AGENTS**
[54] **ANTICORPS ANTI-CD40 AGONISTES EN TANT QU'AGENTS IMMUNOSTIMULATEURS**
[72] FISCHER, STEPHAN, DE
[71] MAB DISCOVERY GMBH, DE
[85] 2024-03-19
[86] 2022-09-30 (PCT/EP2022/077270)
[87] (WO2023/052581)
[30] EP (21200496.4) 2021-10-01

[21] **3,232,919**
[13] A1
[51] **Int.Cl. B05B 13/04 (2006.01) B05B 15/33 (2018.01) B41J 3/407 (2006.01) B05B 7/24 (2006.01)**
[25] EN
[54] **A MARKING SYSTEM FOR A ROBOT**
[54] **SYSTEME DE MARQUAGE DESTINE A UN ROBOT**
[72] LUKIC, SASHA, CH
[72] HALVORSEN, HAVARD, NO
[72] JAKOBSEN, YNGVE, NO
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-03-19
[86] 2022-11-09 (PCT/EP2022/081252)
[87] (WO2023/088745)
[30] EP (21208367.9) 2021-11-16

[21] **3,232,921**
[13] A1
[51] **Int.Cl. C07D 211/26 (2006.01) A61P 25/16 (2006.01) C07D 213/78 (2006.01) C07D 295/088 (2006.01) C07D 403/04 (2006.01)**
[25] EN
[54] **OXIMES AND THEIR USE IN TREATMENT OF GBA-RELATED DISEASES**
[54] **OXIMES ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES ASSOCIEES A GBA**
[72] NEVE, SOREN, DK
[72] BROWN, WILLIAM DALBY, DK
[72] THIRSTRUP, KENNETH, DK
[71] ZEVRA DENMARK A/S, DK
[85] 2024-03-19
[86] 2022-09-27 (PCT/IB2022/059203)
[87] (WO2023/053008)
[30] EP (21199458.7) 2021-09-28

[21] **3,232,924**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/444 (2006.01) A61P 15/16 (2006.01) C07D 403/04 (2006.01) C07D 413/04 (2006.01) C07D 417/04 (2006.01) C07D 471/04 (2006.01) C07D 491/04 (2006.01)**
[25] EN
[54] **PYRIDINES AND THEIR USE IN TREATMENT OF GBA-RELATED DISEASES**
[54] **PYRIDINES ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES ASSOCIEES AU GBA**
[72] NEVE, SOREN, DK
[72] BROWN, WILLIAM DALBY, DK
[72] THIRSTRUP, KENNETH, DK
[71] ZEVRA DENMARK A/S, DK
[85] 2024-03-19
[86] 2022-09-27 (PCT/IB2022/059204)
[87] (WO2023/053009)
[30] EP (21199468.6) 2021-09-28

[21] **3,232,927**
[13] A1
[51] **Int.Cl. A01K 15/02 (2006.01)**
[25] EN
[54] **WHEELCHAIR FOR QUADRUPEDAL ANIMALS**
[54] **FAUTEUIL ROULANT POUR ANIMAL A QUATRE PATTES**
[72] HOTTA, HITOSHI, JP
[71] SUNTEQNOS CORPORATION, JP
[85] 2024-03-19
[86] 2022-06-20 (PCT/JP2022/024447)
[87] (WO2023/248269)

[21] **3,232,928**
[13] A1
[51] **Int.Cl. F16G 1/28 (2006.01) C08K 3/013 (2018.01) B29D 29/08 (2006.01) B32B 25/02 (2006.01) B32B 25/10 (2006.01) C08K 7/02 (2006.01) C08L 15/00 (2006.01)**
[25] EN
[54] **TOOTHED BELT AND MANUFACTURING METHOD THEREFOR**
[54] **COURROIE CRANTEE ET PROCEDE POUR SA FABRICATION**
[72] OSAKI SUSUMU, JP
[72] HEMMI YUSUKE, JP
[72] MIZUMOTO TAKUMI, JP
[71] MITSUBOSHI BELTING LTD., JP
[85] 2024-03-19
[86] 2022-09-27 (PCT/JP2022/036042)
[87] (WO2023/054413)
[30] JP (2021-159743) 2021-09-29
[30] JP (2022-086291) 2022-05-26
[30] JP (2022-143790) 2022-09-09

[21] **3,232,930**
[13] A1
[51] **Int.Cl. A61C 5/00 (2017.01) A61K 6/20 (2020.01) A61K 6/30 (2020.01) A61K 6/40 (2020.01) A61K 6/62 (2020.01) C08F 212/08 (2006.01)**
[25] EN
[54] **CATECHOL-CONTAINING MATERIAL FOR USE IN DENTAL APPLICATIONS**
[54] **MATERIAU CONTENANT DU CATECHOL DESTINE A ETRE UTILISE DANS DES APPLICATIONS DENTAIRES**
[72] ANDERSON, ERIC, US
[71] MUSSEL POLYMERS, INC., US
[85] 2024-03-19
[86] 2022-09-20 (PCT/US2022/076734)
[87] (WO2023/044506)
[30] US (63/245,959) 2021-09-20
[30] US (63/287,124) 2021-12-08

[21] **3,232,932**
[13] A1
[51] **Int.Cl. A01M 29/06 (2011.01) A01M 29/08 (2011.01) B32B 17/06 (2006.01)**
[25] EN
[54] **FILM PRODUCT FOR APPLICATION TO A BUILDING ENVELOPE FOR PROTECTION AGAINST BIRD IMPACT**
[54] **PRODUIT EN FEUILLE A MONTER SUR UNE ENVELOPPE DE BATIMENT POUR LA PROTECTION CONTRE LES IMPACTS D'OISEAUX**
[72] CERNY, CHRISTOPH, AT
[72] WADDOUP, DOMINIQUE, AT
[71] BIRDSHADES INNOVATIONS GMBH, AT
[85] 2024-03-20
[86] 2022-09-22 (PCT/AT2022/060312)
[87] (WO2023/044517)
[30] AT (A 158/2021) 2021-09-22

[21] **3,232,935**
[13] A1
[51] **Int.Cl. A01N 25/30 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01N 47/24 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING A SATURATED OR UNSATURATED ALIPHATIC ACID AND A NON-IONIC SURFACTANT FOR ENHANCING PENETRATION OF PESTICIDE COMPONENTS**
[54] **COMPOSITIONS COMPRENANT UN ACIDE ALIPHATIQUE SATURE OU INSATURE ET UN TENSIOACTIF NON IONIQUE PERMETTANT D'AMELIORER LA PENETRATION D'ELEMENTS PESTICIDES**
[72] ROZEK, ANNETT, CA
[72] LI, HANGSHENG, CA
[72] POON, RICHEL SZE HENG, CA
[72] WAN, ZHIJING, CA
[72] ZHANG, MIAO, CA
[71] TERRAMERA, INC., CA
[85] 2024-03-20
[86] 2022-09-21 (PCT/CA2022/051401)
[87] (WO2023/044567)
[30] US (63/246,737) 2021-09-21

[21] **3,232,937**
[13] A1
[51] **Int.Cl. G01N 33/48 (2006.01) G01N 33/53 (2006.01) G01N 15/10 (2024.01) G01N 15/14 (2024.01)**
[25] EN
[54] **ANTI-PD1 THERAPY BASED ON RESPONSE TO IFN-I STIMULATION**
[54] **THERAPIE ANTI-PD1 FONDEE SUR LA REPONSE A LA STIMULATION PAR IFN-I**
[72] BROOKS, DAVID, CA
[72] BOUKHALED, GISELLE, CA
[72] ELSAESSER, HEIDI J., CA
[71] UNIVERSITY HEALTH NETWORK, CA
[85] 2024-03-20
[86] 2022-10-14 (PCT/CA2022/051519)
[87] (WO2023/060361)
[30] US (63/256,104) 2021-10-15

[21] **3,232,939**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 11/06 (2006.01) A61P 19/02 (2006.01) A61P 27/02 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **HUMANIZED ANTI-C5A ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-C5A HUMANISES ET LEURS UTILISATIONS**
[72] TSUI, PING, US
[72] ZHANG, JIANJUN, CN
[72] ZHU, XIHUA, CN
[72] QI, SHIGANG, CN
[72] SONG, WENCHAO, US
[72] MIWA, TAKASHI, US
[72] SATO, SAYAKA, US
[72] GULLIPALLI, DAMODARA RAO, US
[71] THE TRUSTEES OF THE UNIVERISTY OF PENNSYLVANIA, US
[71] KIRA PHARMACEUTICALS (SUZHOU) LTD., CN
[85] 2024-03-20
[86] 2022-09-28 (PCT/CN2022/122283)
[87] (WO2023/051642)
[30] CN (PCT/CN2021/121959) 2021-09-29

[21] **3,232,941**
[13] A1
[51] **Int.Cl. C04B 41/89 (2006.01) F01D 5/28 (2006.01)**
[25] EN
[54] **HYBRID CHEMICAL-PHYSICAL VAPOR DEPOSITION PROCESS FOR THE SYNTHESIS OF ENVIRONMENTAL BARRIER COATINGS**
[54] **PROCEDE DE DEPOT HYBRIDE CHIMIQUE-PHYSIQUE EN PHASE VAPEUR POUR LA SYNTHESE DE REVETEMENTS FORMANT UNE BARRIERE ENVIRONNEMENTALE**
[72] CHEN, DIANYING, US
[72] WIDRIG, BENO, CH
[72] RAMM, JUERGEN, CH
[71] OERLIKON SURFACE SOLUTIONS AG, PFAFFIKON, CH
[85] 2024-03-20
[86] 2022-11-30 (PCT/EP2022/000107)
[87] (WO2023/099022)
[30] US (63/284,243) 2021-11-30

[21] **3,232,942**
[13] A1
[51] **Int.Cl. E21B 23/04 (2006.01)**
[25] EN
[54] **HYDRAULICALLY ACTUATED TOOL**
[54] **OUTIL A ACTIONNEMENT HYDRAULIQUE**
[72] HENDERSON, SCOTT, NO
[71] ODFJELL TECHNOLOGY INVEST LTD, NO
[85] 2024-03-25
[86] 2022-09-26 (PCT/EP2022/076725)
[87] (WO2023/057253)
[30] GB (2114212.0) 2021-10-04

[21] **3,232,943**
[13] A1
[51] **Int.Cl. G01N 15/02 (2024.01) B27N 1/02 (2006.01) G01N 15/14 (2024.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING A PARAMETER OF A SIZE DISTRIBUTION OF A MIXTURE, PLANT FOR THE PRODUCTION OF MATERIAL PANELS, AND COMPUTER PROGRAM PRODUCT**
[54] **PROCEDE ET DISPOSITIF DE DETERMINATION D'UN PARAMETRE D'UNE REPARTITION DIMENSIONNELLE D'UN MELANGE, INSTALLATION DE FABRICATION DE PANNEAUX DE MATERIAU ET PRODUIT-PROGRAMME D'ORD INATEUR**
[72] WOLL, JURGEN, DE
[72] BAR, JAN, DE
[72] BARTSCH, MARCEL, DE
[71] DIEFFENBACHER GMBH MASCHINEN- UND ANLAGENBAU, DE
[85] 2024-03-20
[86] 2022-09-21 (PCT/EP2022/076150)
[87] (WO2023/046711)
[30] DE (10 2021 124 782.9) 2021-09-24

[21] **3,232,946**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/10 (2006.01) A61K 9/107 (2006.01) A61K 9/113 (2006.01) A61K 9/14 (2006.01) A61K 9/16 (2006.01) A61K 9/22 (2006.01) A61K 9/24 (2006.01) A61K 9/28 (2006.01) A61K 9/48 (2006.01) A61K 31/352 (2006.01) A61K 31/4245 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING ALZHEIMER'S DISEASE**
[54] **COMPOSITION PHARMACEUTIQUE POUR LA PREVENTION OU LE TRAITEMENT DE LA MALADIE D'ALZHEIMER**
[72] YAO, JINGCHUN, CN
[72] LI, HONGHUA, CN
[72] SUN, CHENGHONG, CN
[72] ZHANG, GUIMIN, CN
[72] ZHAO, TAO, CN
[71] SHANDONG NEW TIME PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-25
[86] 2022-09-30 (PCT/CN2022/123274)
[87] (WO2023/051787)
[30] CN (202111161273.0) 2021-09-30

[21] **3,232,947**
[13] A1
[51] **Int.Cl. C07C 53/10 (2006.01) A61P 3/10 (2006.01) C07C 215/30 (2006.01) C07C 215/42 (2006.01) C07C 217/52 (2006.01) C07C 229/46 (2006.01) C07C 233/41 (2006.01) C07C 233/62 (2006.01) C07C 233/79 (2006.01) C07C 255/46 (2006.01) C07C 271/24 (2006.01) C07C 275/26 (2006.01) C07C 311/07 (2006.01) C07D 213/38 (2006.01) C07D 213/61 (2006.01) C07D 213/84 (2006.01)**
[25] EN
[54] **CYCLOHEXYL BETA-HYDROXY ALKYL AMINES AND MEDICAL USES THEREOF**
[54] **CYCLOHEXYL BETA-HYDROXY ALKYL AMINES ET LEURS UTILISATIONS MEDICALES**
[72] BENGTSSON, TORE, SE
[72] PELCMAN, BENJAMIN, SE
[71] ATROGI AB, SE
[85] 2024-03-20
[86] 2022-09-23 (PCT/EP2022/076473)
[87] (WO2023/046882)
[30] GB (2113594.2) 2021-09-23

[21] **3,232,949**
[13] A1
[51] **Int.Cl. C07D 207/08 (2006.01) A61K 31/40 (2006.01) A61K 31/4439 (2006.01) A61P 1/16 (2006.01) A61P 3/10 (2006.01) C07D 401/06 (2006.01)**
[25] EN
[54] **SUBSTITUTED HYDROXYMETHYL PYRROLIDINES AND MEDICAL USES THEREOF**
[54] **HYDROXYMETHYL PYRROLIDINES SUBSTITUEES ET LEURS UTILISATIONS MEDICALES**
[72] BENGTSSON, TORE, SE
[72] PELCMAN, BENJAMIN, SE
[71] ATROGI AB, SE
[85] 2024-03-20
[86] 2022-09-23 (PCT/EP2022/076491)
[87] (WO2023/046885)

[21] **3,232,950**
[13] A1
[51] **Int.Cl. C23C 14/02 (2006.01) B32B 15/01 (2006.01) C21D 1/26 (2006.01) C21D 1/76 (2006.01) C21D 3/04 (2006.01) C21D 8/00 (2006.01) C21D 9/46 (2006.01) C21D 9/52 (2006.01) C22C 18/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/38 (2006.01) C22C 38/44 (2006.01) C22C 38/58 (2006.01) C23C 14/16 (2006.01) C23C 14/24 (2006.01) C23C 14/56 (2006.01) C21D 8/02 (2006.01)**
[25] EN
[54] **SURFACE PREPARATION FOR JVD**
[54] **PREPARATION DE SURFACE POUR JVD**
[72] CHALEIX, DANIEL, FR
[72] HEBERT, VERONIQUE, FR
[72] LAFFINEUR, FABRICE, BE
[72] RUWET, VINCENT, BE
[71] ARCELORMITTAL, LU
[85] 2024-03-20
[86] 2022-09-05 (PCT/IB2022/058327)
[87] (WO2023/067406)
[30] IB (PCT/IB2021/059600) 2021-10-19

[21] **3,232,951**
[13] A1
[51] **Int.Cl. G06Q 10/083 (2023.01)**
[25] EN
[54] **METHOD AND HANDOVER DEVICE FOR HANDOVER OF GOODS OBJECTS**
[54] **METHODE ET DISPOSITIF DE TRANSFERT POUR LE TRANSFERT DE BIENS**
[72] SCHARES, CHRISTOF, DE
[72] MAYER, BORIS, DE
[72] BORGER, CHRISTIAN, DE
[71] INNOVATIVE ROBOT DELIVERY GMBH, DE
[85] 2024-03-25
[86] 2022-10-26 (PCT/EP2022/079926)
[87] (WO2023/073012)
[30] DE (10 2021 128 214.4) 2021-10-28

[21] **3,232,952**
[13] A1
[51] **Int.Cl. C04B 26/18 (2006.01)**
[25] EN
[54] **ARTIFICIAL AGGLOMERATED STONE**
[54] **PIERRE AGGLOMEREE ARTIFICIELLE**
[72] ALVAREZ BALADRON, BEATRIZ, ES
[72] RISUENO MORENO, DANIEL, ES
[71] COSENTINO RESEARCH & DEVELOPMENT, S.L., ES
[85] 2024-03-20
[86] 2022-09-23 (PCT/EP2022/076511)
[87] (WO2023/046894)
[30] EP (21382860.1) 2021-09-24

[21] **3,232,954**
[13] A1
[51] **Int.Cl. A61B 17/24 (2006.01) A61F 2/04 (2013.01) A61F 2/18 (2006.01) A61K 9/70 (2006.01) A61L 31/16 (2006.01) A61M 31/00 (2006.01) A61F 2/90 (2013.01)**
[25] EN
[54] **IMPLANTABLE MATRIX FOR TREATING CENTRAL NERVOUS SYSTEM DISORDERS**
[54] **MATRICE IMPLANTABLE POUR LE TRAITEMENT DE TROUBLES DU SYSTEME NERVEUX CENTRAL**
[72] CONCAGH, DANNY, US
[72] YOU, CHANGCHENG, US
[72] PALASIS, MARIA, US
[72] GARTUNG, ALLISON, US
[71] LYRA THERAPEUTICS, INC., US
[85] 2024-03-25
[86] 2022-09-23 (PCT/US2022/044555)
[87] (WO2023/055666)
[30] US (PCT/US2021/052331) 2021-09-28
[30] US (17/567,406) 2022-01-03

[21] **3,232,955**
[13] A1
[51] **Int.Cl. A63G 27/00 (2006.01)**
[25] EN
[54] **BALLASTED LIFTABLE SUPPORT FRAME FOR AMUSEMENT RIDE**
[54] **CADRE DE SUPPORT RELEVABLE LESTE POUR MANEGE**
[72] KROON, ALBERT LOUISITO PHILLIPUS, NL
[71] COBRA BEHEER B.V., NL
[85] 2024-03-25
[86] 2022-09-22 (PCT/NL2022/050531)
[87] (WO2023/048565)
[30] NL (2029240) 2021-09-24

[21] **3,232,956**
[13] A1
[51] **Int.Cl. A63G 21/02 (2006.01) A63G 21/18 (2006.01)**
[25] EN
[54] **RIDE ATTRACTION AND METHOD FOR CREATING IMPRESSION OF RIDER INSTABILITY**
[54] **ATTRACTION DE GLISSADE ET PROCEDE DE CREATION D'IMPRESSION D'INSTABILITE DE L'UTILISATEUR**
[72] JENSON, SHANE, CA
[72] WEATHERBEE, BRAD, CA
[72] BRADLEY, BRUCE, CA
[72] FLAVELL, ROSS, CA
[72] BARRERA, CLAUDIO, CA
[72] VIDAL, MARK, CA
[72] BALDOCK, JEFF, CA
[71] WHITEWATER WEST INDUSTRIES LTD., CA
[85] 2024-03-25
[86] 2022-09-27 (PCT/CA2022/000051)
[87] (WO2023/044554)
[30] US (63/261,729) 2021-09-27

[21] **3,232,958**
[13] A1
[51] **Int.Cl. A47F 9/04 (2006.01) G01G 19/414 (2006.01) G06Q 20/20 (2012.01)**
[25] EN
[54] **CHECKOUT TERMINAL**
[54] **TERMINAL DE CAISSE**
[72] WHITELAW, DARRELL, US
[72] GRIGNON, ANDREW J., US
[72] PACHUTA, KRISTINE L., US
[72] CERVANTES, MICHAEL C., US
[72] LEW, JAE Y., US
[72] HADINGER, STEPHEN S., US
[72] LEEK, BRITTANY N., US
[72] YERGIN, WILLIAM J., US
[72] CHEE, WEI-MENG, US
[72] CRECELIUS, JOHN C. JR., US
[71] WALMART APOLLO, LLC, US
[85] 2024-03-25
[86] 2022-09-22 (PCT/US2022/044365)
[87] (WO2023/049250)
[30] US (63/248,905) 2021-09-27
[30] US (63/310,001) 2022-02-14

[21] **3,232,959**
[13] A1
[51] **Int.Cl. A63G 27/00 (2006.01)**
[25] EN
[54] **AMUSEMENT RIDE AND METHOD OF ASSEMBLY**
[54] **MANEGE ET PROCEDE D'ASSEMBLAGE**
[72] KROON, ALBERT LOUISITO PHILLIPUS, NL
[71] COBRA BEHEER B.V., NL
[85] 2024-03-25
[86] 2022-09-22 (PCT/NL2022/050533)
[87] (WO2023/048567)
[30] NL (2029247) 2021-09-24

[21] **3,232,960**
[13] A1
[51] **Int.Cl. F16L 21/04 (2006.01)**
[25] EN
[54] **PIPE JOINT, SPACER PROVIDED IN PIPE JOINT, AND DIVIDING PIECE CONSTITUTING SPACER**
[54] **RACCORD DE TUYAU, ELEMENT D'ESPACEMENT DISPOSE DANS UN RACCORD DE TUYAU, ET ELEMENT DE SEPARATION CONSTITUANT UN ELEMENT D'ESPACEMENT**
[72] TANAKA, RYUNOSUKE, JP
[72] KOMARU, YUITO, JP
[72] ODA, KEITA, JP
[71] KUBOTA CORPORATION, JP
[85] 2024-03-25
[86] 2022-09-30 (PCT/JP2022/036720)
[87] (WO2023/058574)
[30] JP (2021-163777) 2021-10-05

[21] **3,232,961**
[13] A1
[51] **Int.Cl. B32B 9/00 (2006.01) B32B 15/10 (2006.01) B32B 18/00 (2006.01) B32B 21/04 (2006.01) B65D 88/12 (2006.01) B65D 90/02 (2019.01) B65D 90/04 (2006.01) E04C 2/26 (2006.01) E05G 1/024 (2006.01)**
[25] EN
[54] **A SHIPPING CONTAINER COMPRISING A LAMINATED BUILDING ELEMENT**
[54] **CONTENEUR D'EXPEDITION COMPRENANT UN ELEMENT DE CONSTRUCTION STRATIFIE**
[72] ALLARD, FREDRIK, SE
[72] NYSTROM, MICAEL, SE
[71] FM GLOBAL SAFETY SOLUTIONS AB, SE
[85] 2024-03-25
[86] 2022-09-22 (PCT/SE2022/050836)
[87] (WO2023/048626)
[30] SE (2151171-2) 2021-09-24

[21] **3,232,962**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) C07K 14/435 (2006.01)**
[25] EN
[54] **CARBOHYDRATE BINDING POLYPEPTIDE OF SAVALIA SAVAGLIA**
[54] **POLYPEPTIDE LIANT LES HYDRATES DE CARBONE DE SAVALIA SAVAGLIA**
[72] ANDJELKOVIC, UROS, RS
[72] VUKASINOVIC, IVANA, RS
[72] SLADIC, DUSAN, RS
[72] LAH, JURIJ, SI
[72] FONOVIC, MARKO, SI
[71] UNIVERSITY OF BELGRADE, RS
[71] UNIVERSITY OF LJUBLJANA, SI
[71] JOSEF STEFAN INSTITUTE, SI
[85] 2024-03-25
[86] 2021-10-01 (PCT/RS2021/000013)
[87] (WO2023/055250)

[21] **3,232,963**
[13] A1
[51] **Int.Cl. A63G 27/00 (2006.01)**
[25] EN
[54] **DRIVE FOR POLYGONAL FERRIS WHEEL**
[54] **ENTRAINEMENT POUR GRANDE ROUE POLYGONALE**
[72] KROON, ALBERT LOUISITO PHILLIPUS, NL
[71] COBRA BEHEER B.V., NL
[85] 2024-03-25
[86] 2022-09-22 (PCT/NL2022/050534)
[87] (WO2023/048568)
[30] NL (2029250) 2021-09-24

[21] **3,232,964**
[13] A1
[51] **Int.Cl. A61B 90/30 (2016.01)**
[25] EN
[54] **COMPOSITIONS FOR MARKING TISSUE AND METHODS OF MAKING THE SAME**
[54] **COMPOSITIONS POUR MARQUER UN TISSU ET LEURS METHODES DE PRODUCTION**
[72] PHILLIPS, JANET L. F., US
[72] KATSMA, AMANDA, US
[72] HENSE, DEBORA L., US
[71] VECTOR SURGICAL, LLC, US
[85] 2024-03-25
[86] 2022-12-21 (PCT/US2022/082188)
[87] (WO2023/133050)
[30] US (17/646,908) 2022-01-04

[21] **3,232,967**
[13] A1
[51] **Int.Cl. A63G 27/00 (2006.01)**
[25] EN
[54] **TILTABLE MAST**
[54] **MAT INCLINABLE**
[72] KROON, ALBERT LOUISITO PHILLIPUS, NL
[71] COBRA BEHEER B.V., NL
[85] 2024-03-25
[86] 2022-09-22 (PCT/NL2022/050532)
[87] (WO2023/048566)
[30] NL (2029242) 2021-09-24

[21] **3,232,968**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) C12N 15/113 (2010.01) C12N 5/16 (2006.01) C12N 9/22 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **IMMUNE CELLS HAVING CO-EXPRESSED SHRNAS AND LOGIC GATE SYSTEMS**
[54] **CELLULES IMMUNITAIRES AYANT DES ARNSH CO-EXPRIMES ET DES SYSTEMES DE PORTE LOGIQUE**
[72] WILLIAMS, JASPER, US
[72] NGUYEN, MICHELLE, US
[72] YAO, ANZHI, US
[72] SANTORO, STEPHEN, US
[72] COOPER, AARON, US
[72] GAGNON, JOHN, US
[72] LITTERMAN, ADAM, US
[72] KHAN, OMAR, US
[72] BEZMAN, NATALIE, US
[72] HARRIS, KATHERINE, US
[72] MALIK CHAUDHRY, HARBANI KAUR, US
[72] ALLEN, NICOLE, US
[71] ARSENAL BIOSCIENCES, INC., US
[85] 2024-03-25
[86] 2022-10-14 (PCT/US2022/078158)
[87] (WO2023/064928)
[30] US (63/255,887) 2021-10-14
[30] US (63/255,889) 2021-10-14
[30] US (63/255,891) 2021-10-14
[30] US (63/303,422) 2022-01-26

[21] **3,232,971**
[13] A1
[51] **Int.Cl. A61K 31/4704 (2006.01) C12N 5/071 (2010.01)**
[25] EN
[54] **STEM CELL DERIVED PANCREATIC ISLET DIFFERENTIATION**
[54] **DIFFERENCIATION D'ILOTS PANCREATIQUES DERIVES DE CELLULES SOUCHES**
[72] HARB, GEORGE, US
[72] XIE, CHUNHUI, US
[72] CAREY, BRYCE W., US
[72] SZYMANIAK, ALEKSANDER, US
[72] THANOS, CHRISTOPHER, US
[72] THOMPSON, EVRETT, US
[72] CHINN, REBECCA, US
[72] RAJ, SUYASH, US
[71] VERTEX PHARMACEUTICALS INCORPORATED, US
[85] 2024-03-25
[86] 2022-11-01 (PCT/US2022/079017)
[87] (WO2023/077140)
[30] US (63/274,391) 2021-11-01
[30] US (63/274,402) 2021-11-01

[21] **3,232,972**
[13] A1
[51] **Int.Cl. A61K 31/015 (2006.01)**
[25] EN
[54] **ENDOXIFEN FOR TREATMENT OF CANCERS**
[54] **ENDOXIFENE POUR LE TRAITEMENT DE CANCERS**
[72] QUAY, STEVEN C., US
[72] GRANDORI, CARLA, US
[72] KAPELI, KATANNYA, US
[71] ATOSSA THERAPEUTICS, INC., US
[85] 2024-03-25
[86] 2022-10-27 (PCT/US2022/048061)
[87] (WO2023/076496)
[30] US (63/272,869) 2021-10-28

[21] **3,232,973**
[13] A1
[51] **Int.Cl. B65D 25/02 (2006.01) B65D 43/02 (2006.01) B65D 81/26 (2006.01) B65D 85/18 (2006.01)**
[25] EN
[54] **SPORT KIT BOX FOR HANGING AND DRYING**
[54] **BOITE DE KIT DE SPORT POUR LA SUSPENSION ET LE SECHAGE**
[72] SAWYER, KYLE, CA
[71] 1368576 B.C. LTD, CA
[85] 2024-03-25
[86] 2022-09-26 (PCT/CA2022/051426)
[87] (WO2023/049995)
[30] US (63/249,759) 2021-09-29

[21] **3,232,975**
[13] A1
[51] **Int.Cl. H04N 19/105 (2014.01) H04N 19/176 (2014.01) H04N 19/61 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **TEMPLATE-BASED SYNTAX ELEMENT PREDICTION**
[54] **PREDICTION D'ELEMENT DE SYNTAXE BASE SUR UN MODELE**
[72] NASER, KARAM, FR
[72] GALPIN, FRANCK, FR
[72] POIRIER, TANGI, FR
[72] LE LEANNEC, FABRICE, FR
[71] INTERDIGITAL CE PATENT HOLDINGS, SAS, FR
[85] 2024-03-25
[86] 2022-09-26 (PCT/EP2022/076679)
[87] (WO2023/046955)
[30] EP (21306335.7) 2021-09-27

[21] **3,232,976**
[13] A1
[51] **Int.Cl. C01B 3/06 (2006.01)**
[25] EN
[54] **HYDROGEN PRODUCTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE PRODUCTION D'HYDROGENE**
[72] WOODS, ANDREW, GB
[72] DOUGLAS, ROBERT, GB
[72] ELLIOTT, MATTHEW, GB
[71] CATAGEN LIMITED, GB
[85] 2024-03-25
[86] 2022-09-29 (PCT/EP2022/077196)
[87] (WO2023/052550)
[30] GB (2113957.1) 2021-09-29

[21] **3,232,978**
[13] A1
[51] **Int.Cl. C09K 5/04 (2006.01) H01M 10/6557 (2014.01)**
[25] EN
[54] **FLUORINE SUBSTITUTED CYCLOBUTENE COMPOUNDS, AND COMPOSITIONS, METHODS AND USES INCLUDING SAME**
[54] **COMPOSES DE CYCLOBUTENE SUBSTITUES PAR FLUOR, ET COMPOSITIONS, PROCEDES ET UTILISATIONS LES COMPRENANT**
[72] ZHAI, YIAN, US
[72] HULSE, RYAN, US
[72] SINGH, RAJIV RATNA, US
[72] NALEWAJEK, DAVID, US
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2024-03-25
[86] 2022-09-27 (PCT/US2022/044904)
[87] (WO2023/049513)
[30] US (63/248,990) 2021-09-27

[21] **3,232,979**
[13] A1
[51] **Int.Cl. C07K 14/31 (2006.01)**
[25] EN
[54] **FIBRONECTIN-BINDING PEPTIDES FOR USE IN TUMOR OR FIBROSIS DIAGNOSIS AND THERAPY**
[54] **PEPTIDES DE LIAISON A LA FIBRONECTINE DESTINES A ETRE UTILISES DANS LE DIAGNOSTIC ET LA THERAPIE DE TUMEURS OU DE LA FIBROSE**
[72] VOGEL, VIOLA, CH
[72] CHABRIA, MAMTA, CH
[72] VALPREDA, GIULIA, CH
[72] TRACHSEL, BELINDA, CH
[72] BEHE, MARTIN, CH
[71] ETH ZURICH, CH
[71] PAUL SCHERRER INSTITUT, CH
[85] 2024-03-25
[86] 2021-10-05 (PCT/EP2021/025388)
[87] (WO2023/057034)

[21] **3,232,981**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 33/10 (2006.01) C07K 14/435 (2006.01) C12N 9/12 (2006.01) C12N 9/88 (2006.01) C12N 15/70 (2006.01)**
[25] EN
[54] **NEMATODE VACCINE**
[54] **VACCIN CONTRE LES NEMATODES**
[72] UMAIR, SALEH, NZ
[72] KNIGHT, JACQUELINE SARAH, NZ
[71] AGRESEARCH LIMITED, NZ
[85] 2024-03-25
[86] 2022-10-03 (PCT/IB2022/059394)
[87] (WO2023/057870)
[30] NZ (780917) 2021-10-04

[21] **3,232,982**
[13] A1
[51] **Int.Cl. A62B 23/02 (2006.01) A62B 18/08 (2006.01)**
[25] EN
[54] **INTERCHANGEABLE FILTER SYSTEMS FOR RESPIRATORS**
[54] **SYSTEMES DE FILTRE INTERCHANGEABLE DESTINE A DES RESPIRATEURS**
[72] RANSON, ROBERT, CA
[71] WIN-SHIELD MEDICAL DEVICES INC., CA
[85] 2024-03-25
[86] 2022-09-22 (PCT/CA2022/051408)
[87] (WO2023/044571)
[30] US (63/247,477) 2021-09-23

[21] **3,232,983**
[13] A1
[51] **Int.Cl. C10G 2/00 (2006.01) C10K 3/02 (2006.01) C25B 1/04 (2021.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR E-FUEL PRODUCTION**
[54] **SYSTEME ET PROCEDE DE PRODUCTION DE CARBURANT SYNTHETIQUE**
[72] WOODS, ANDREW, GB
[72] ELLIOTT, MATTHEW, GB
[72] DOUGLAS, ROBERT, GB
[71] CATAGEN LIMITED, GB
[85] 2024-03-25
[86] 2022-09-29 (PCT/EP2022/077219)
[87] (WO2023/052564)
[30] GB (2113960.5) 2021-09-29

[21] **3,232,987**
[13] A1
[51] **Int.Cl. A23K 10/14 (2016.01) A23K 10/16 (2016.01) A23K 10/18 (2016.01) A23K 20/111 (2016.01) A23K 20/142 (2016.01) A23K 20/189 (2016.01) A23K 50/30 (2016.01) A23K 50/75 (2016.01)**
[25] EN
[54] **FEED ADDITIVE COMPOSITIONS AND METHODS FOR USING THE SAME**
[54] **COMPOSITIONS D'ADDITIFS ALIMENTAIRES ET LEURS PROCEDES D'UTILISATION**
[72] BERNARDEAU, MARION, FR
[72] PERRY, MICHAEL, US
[72] POULSEN, CHARLOTTE HORSMANS, DK
[72] BEKELE-YITBAREK, ALEXANDER, US
[72] GIBBS, KIRSTY, GB
[72] SAXER QUANCE, GERDA, US
[72] MEISCH, JEFFREY, US
[72] ROSENTHAL, ADAM, US
[72] BRENNAN, MELANIE, US
[71] INTERNATIONAL N&H DENMARK APS, DK
[85] 2024-03-25
[86] 2022-09-27 (PCT/US2022/044820)
[87] (WO2023/049488)
[30] US (63/248,657) 2021-09-27
[30] US (63/248,668) 2021-09-27
[30] US (63/397,189) 2022-08-11

[21] **3,232,988**
[13] A1
[51] **Int.Cl. C07K 14/755 (2006.01) A61P 7/04 (2006.01)**
[25] EN
[54] **NUCLEIC ACIDS ENCODING FACTOR VIII POLYPEPTIDES WITH REDUCED IMMUNOGENICITY**
[54] **ACIDES NUCLEIQUES CODANT POUR DES POLYPEPTIDES DU FACTEUR VIII A IMMUNOGENICITE REDUITE**
[72] LIU, TONGYAO, US
[72] CHHABRA, EKTA SETH, US
[72] TAN, SIYUAN, US
[71] BIOVERATIV THERAPEUTICS INC., US
[85] 2024-03-25
[86] 2022-09-29 (PCT/US2022/077228)
[87] (WO2023/056331)
[30] US (63/250,575) 2021-09-30

[21] **3,232,990**
[13] A1
[51] **Int.Cl. A01N 37/38 (2006.01) A01N 37/44 (2006.01) A01N 53/00 (2006.01)**
[25] EN
[54] **NOVEL MIXTURES FOR CROP PROTECTION**
[54] **NOUVEAUX MELANGES POUR LA PROTECTION DES CULTURES**
[72] KULKARNI, PRADEEP, IN
[72] PULLAIAH, NARAHARI, IL
[72] IBERKLEID, IONIT, IL
[72] WALDMAN, LIOR, IL
[72] GREENSPOON, INBAR, IL
[72] SHAKED, SHAI, IL
[72] AVIDOR, YOAV, IL
[72] HORSFIELD, ANDREW, AU
[72] KAYA, MEHMET, TR
[72] SEYID, KEREM, CH
[72] FAURE MLYNSKI, MARIELA, IL
[71] ADAMA MAKHTESHIM LTD., IL
[85] 2024-03-25
[86] 2022-09-25 (PCT/IL2022/051023)
[87] (WO2023/047406)
[30] IN (202111043563) 2021-09-25

[21] **3,232,992**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **DRIVE MECHANISM FOR POSITIVE DISPLACEMENT PUMPS**
[54] **MECANISME D'ENTRAINEMENT POUR POMPES VOLUMETRIQUES**
[72] KAMRAVA, SOROUSH, US
[72] CARDINALI, STEVEN, US
[72] BARNES, JEFFREY, US
[71] INSULET CORPORATION, US
[85] 2024-03-25
[86] 2022-10-17 (PCT/US2022/078228)
[87] (WO2023/069909)
[30] US (63/256,714) 2021-10-18

[21] **3,232,993**
[13] A1
[51] **Int.Cl. B65G 47/244 (2006.01) B65G 47/32 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR CONVEYING AND CHANGING AN ORIENTATION OF A PIECE PRODUCT**
[54] **PROCEDE ET DISPOSITIF DE TRANSPORT ET DE CHANGEMENT D'ORIENTATION D'UN PRODUIT EN MORCEAUX**
[72] WOLLER, DANIELA, DE
[72] BISPING, BERNHARD, DE
[72] HOFMANN, BENEDIKT, DE
[71] LOESCH VERPACKUNGSTECHNIK GMBH + CO. KG, DE
[85] 2024-03-25
[86] 2021-11-16 (PCT/EP2021/081874)
[87] (WO2023/088541)

[21] **3,232,995**
[13] A1
[51] **Int.Cl. H04N 19/11 (2014.01) H04N 19/105 (2014.01) H04N 19/593 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **IMPROVING THE ANGLE DISCRETIZATION IN DECODER SIDE INTRA MODE DERIVATION**
[54] **AMELIORATION DE LA DISCRETISATION D'ANGLE DANS LA DERIVATION MODE INTRA COTE DECODEUR**
[72] DUMAS, THIERRY, FR
[72] LE LEANNEC, FABRICE, FR
[72] GALPIN, FRANCK, FR
[72] BORDES, PHILIPPE, FR
[71] INTERDIGITAL CE PATENT HOLDINGS, SAS, FR
[85] 2024-03-25
[86] 2022-09-16 (PCT/EP2022/075843)
[87] (WO2023/052156)
[30] EP (21306345.6) 2021-09-28

[21] **3,232,996**
[13] A1
[51] **Int.Cl. A01H 6/46 (2018.01)**
[25] EN
[54] **GLUFOSINATE RESISTANCE CASSETTES AND PLANTS COMPRISING THE SAME**
[54] **CASSETTES DE RESISTANCE AU GLUFOSINATE ET PLANTES LES COMPRENANT**
[72] HARRIMAN, ROBERT, US
[72] TORISKY, REBECCA, US
[72] LEE, LISA, US
[71] OMS INVESTMENTS, INC., US
[85] 2024-03-25
[86] 2022-09-26 (PCT/US2022/077025)
[87] (WO2023/049899)
[30] US (17/484,977) 2021-09-24

[21] **3,232,998**
[13] A1
[51] **Int.Cl. F17C 3/02 (2006.01) E04H 7/20 (2006.01) E04C 2/288 (2006.01)**
[25] EN
[54] **PRECAST, PRESTRESSED CONCRETE CRYOGENIC TANKS - SLIDING BASE INSULATION SYSTEM AND METHOD FOR FULL AND DOUBLE CONTAINMENT SYSTEMS**
[54] **SYSTEME D'ISOLATION DE RESERVOIR CRYOGENIQUE EN BETON PRECONTRAINT PREFABRIQUE A BASE COULISSANTE ET PROCEDE POUR SYSTEMES DE CONFINEMENT COMPLET ET DOUBLE**
[72] MEHTA, SANJAY, US
[72] REAMAN, ERIC T., US
[71] PRELOAD CRYOGENICS, LLC, US
[85] 2024-03-25
[86] 2022-09-28 (PCT/US2022/045012)
[87] (WO2023/055782)
[30] US (63/249,205) 2021-09-28

[21] **3,232,999**
[13] A1
[51] **Int.Cl. G09B 23/34 (2006.01) G09B 23/28 (2006.01) G09B 23/30 (2006.01)**
[25] EN
[54] **SIMULATED TISSUE STRUCTURE COMPOSITION AND USE FOR SURGICAL TRAINING**
[54] **COMPOSITION DE STRUCTURE TISSULAIRE SIMULEE ET SON UTILISATION POUR L'ENTRAINEMENT CHIRURGICAL**
[72] RAYGAN, OSCAR, US
[72] SMUDZ, BRANNON, US
[71] APPLIED MEDICAL RESOURCES CORPORATON, US
[85] 2024-03-25
[86] 2022-09-22 (PCT/US2022/044411)
[87] (WO2023/055647)
[30] US (63/249,692) 2021-09-29

[21] **3,233,001**
[13] A1
[51] **Int.Cl. B01D 19/04 (2006.01)**
[25] EN
[54] **POLYALKYLENE ALKYL COMPOUND FOR DEFOAMING FERMENTATION BROTH**
[54] **COMPOSE D'ALKYLE DE POLYALKYLENE POUR DEMOUSSAGE D'UN BOUILLON DE FERMENTATION**
[72] QI, WENJING, CN
[72] ZHONG, ZEYU, CN
[72] CHEN, XUE, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-03-25
[86] 2021-09-29 (PCT/CN2021/121610)
[87] (WO2023/050125)

[21] **3,233,002**
[13] A1
[51] **Int.Cl. B60R 7/14 (2006.01) F41C 33/06 (2006.01)**
[25] EN
[54] **VEHICLE HEADREST SAFE**
[54] **COFFRE D'APPUIE-TETE DE VEHICULE**
[72] MEISLER, IRVING, US
[71] THE HEADREST SAFE IP COMPANY, LLC, US
[85] 2024-03-25
[86] 2022-09-23 (PCT/US2022/044507)
[87] (WO2023/055662)
[30] US (63/250,452) 2021-09-30
[30] US (17/541,407) 2021-12-03

[21] **3,233,003**
[13] A1
[51] **Int.Cl. H01M 10/0587 (2010.01) H01M 4/131 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/587 (2010.01) H01M 10/052 (2010.01) H01M 50/533 (2021.01)**
[25] EN
[54] **LITHIUM SECONDARY BATTERY**
[54] **BATTERIE SECONDAIRE AU LITHIUM**
[72] LEE, BYOUNG GU, KR
[72] RYU, DUK HYUN, KR
[72] LEE, KWAN HEE, KR
[72] LEE, MYUNG AN, KR
[72] KIM, SUE JIN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-25
[86] 2022-10-14 (PCT/KR2022/015624)
[87] (WO2023/063785)
[30] KR (10-2021-0136709) 2021-10-14
[30] KR (10-2022-0049184) 2022-04-20
[30] KR (10-2022-0121173) 2022-09-23

[21] **3,233,004**
[13] A1
[51] **Int.Cl. B01D 33/056 (2006.01) B01D 33/46 (2006.01) B01D 33/80 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR CLEANING A GAS STREAM**
[54] **DISPOSITIF ET PROCEDE POUR PURIFIER UN FLUX GAZEUX**
[72] ALLEROEDDER, WOLFGANG, DE
[72] FRYE, MARIUS, DE
[72] KORBER, ALEXANDER, DE
[72] PLASCHNA, FABIAN, DE
[71] DIEFFENBACHER GMBH MASCHINEN- UND ANLAGENBAU, DE
[85] 2024-03-25
[86] 2022-09-26 (PCT/EP2022/076736)
[87] (WO2023/046973)
[30] DE (10 2021 004 821.0) 2021-09-26

[21] **3,233,005**
[13] A1
[51] **Int.Cl. E01F 15/08 (2006.01)**
[25] EN
[54] **MODULAR ROAD BARRIER**
[54] **BARRIERE ROUTIERE MODULAIRE**
[72] AIELLO, VALERIO SALVATORE, IT
[71] KATECH S.R.L., IT
[85] 2024-03-25
[86] 2022-11-11 (PCT/IB2022/060870)
[87] (WO2023/084462)
[30] IT (102021000028742) 2021-11-11

[21] **3,233,006**
[13] A1
[51] **Int.Cl. E04G 9/04 (2006.01)**
[25] EN
[54] **GYPSUM CEMENT WITH REDUCED PERMEABILITY**
[54] **CIMENT DE GYPSE A PERMEABILITE REDUITE**
[72] HUANG, HELEN, US
[72] BADGER, STEVEN, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2024-03-25
[86] 2021-09-29 (PCT/US2021/052500)
[87] (WO2023/055347)

[21] **3,233,007**
[13] A1
[51] **Int.Cl. H04B 7/06 (2006.01)**
[25] EN
[54] **REPEATER CONFIGURATION FOR CHANNEL STATE INFORMATION REFERENCE SIGNAL**
[54] **CONFIGURATION DE REPETEUR POUR SIGNAL DE REFERENCE D'INFORMATIONS D'ETAT DE CANAL**
[72] ALI, ALI RAMADAN, DE
[72] BHAMRI, ANKIT, DE
[72] HINDY, AHMED, US
[72] CHEEMA, SHER ALI, DE
[72] NANGIA, VIJAY, US
[71] LENOVO (SINGAPORE) PTE. LTD, SG
[85] 2024-03-25
[86] 2022-11-29 (PCT/IB2022/061556)
[87] (WO2023/095112)
[30] US (17/537,279) 2021-11-29

[21] **3,233,008**
[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUSES OF A MRO MECHANISM FOR SPAR OR SPCR AND SCG FAILURE INFORMATION PROCEDURE**
[54] **PROCEDES ET APPAREILS D'UN MECANISME MRO POUR PROCEDURE D'INFORMATIONS DE DEFAILLANCE PAR ESPAR OU SPCR ET SCG**
[72] WU, LIANHAI, CN
[72] YAN, LE, CN
[72] DAI, MINGZENG, CN
[72] HAN, JING, CN
[72] YUE, RAN, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-25
[86] 2021-12-10 (PCT/CN2021/137104)
[87] (WO2023/102895)

[21] **3,233,009**
[13] A1
[51] **Int.Cl. H04W 76/27 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS OF SUPPORTING MULTICAST AND BROADCAST SERVICES (MBS)**
[54] **PROCEDE ET APPAREIL DE PRISE EN CHARGE DE SERVICES DE MULTIDIFFUSION ET DE RADIODIFFUSION (MBS)**
[72] DAI, MINGZENG, CN
[72] HAN, JING, CN
[72] WU, LIANHAI, CN
[72] ZHANG, CONGCHI, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-25
[86] 2021-12-31 (PCT/CN2021/143817)
[87] (WO2023/123407)

[21] **3,233,010**
[13] A1
[51] **Int.Cl. C03B 7/14 (2006.01) C03B 11/08 (2006.01) C03B 40/027 (2006.01)**
[25] EN
[54] **MOLTEN GLASS TRANSPORT SYSTEM**
[54] **SYSTEME DE TRANSPORT DE VERRE FONDU**
[72] FLYNN, ROBIN L., US
[72] GRAFF, STEPHEN, US
[72] PICKLES, JASON, US
[72] KIRKMAN, THOMAS, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2024-03-25
[86] 2022-09-29 (PCT/US2022/045234)
[87] (WO2023/055937)
[30] US (63/251,011) 2021-09-30

[21] **3,233,011**
[13] A1
[51] **Int.Cl. H04B 7/00 (2006.01) H04W 36/00 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR DETERMINING NETWORK COVERAGE INTERRUPTION PREDICTION**
[54] **PROCEDES ET APPAREIL POUR DETERMINER UNE PREDICTION D'INTERRUPTION DE COUVERTURE DE RESEAU**
[72] XU, MIN, CN
[72] WU, LIANHAI, CN
[72] YUE, RAN, CN
[72] HAN, JING, CN
[72] HU, JIE, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-25
[86] 2021-12-31 (PCT/CN2021/143671)
[87] (WO2023/123351)

[21] **3,233,012**
[13] A1
[51] **Int.Cl. H04W 76/23 (2018.01) H04W 88/04 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR HANDLING ESTABLISHMENT AND FAILURE IN MULTI-PATH CASE**
[54] **PROCEDES ET APPAREILS DE TRAITEMENT D?ETABLISSEMENT ET DE DEFAILLANCE EN CAS DE MULTIPLES TRAJETS**
[72] WU, LIANHAI, CN
[72] DAI, MINGZENG, CN
[72] HAN, JING, CN
[72] ZHANG, CONGCHI, CN
[72] YUE, RAN, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-25
[86] 2021-12-30 (PCT/CN2021/143238)
[87] (WO2023/123242)

[21] **3,233,013**
[13] A1
[51] **Int.Cl. C08L 83/04 (2006.01)**
[25] EN
[54] **MOISTURE CURABLE COMPOSITIONS**
[54] **COMPOSITIONS DURCISSABLES A L'HUMIDITE**
[72] MARCHAND, CHRISTINE, US
[72] AHN, DONGCHAN, US
[72] DETEMMERMAN, TOMMY, BE
[72] DESSILLY, THIERRY, BE
[72] HLINKA, STEPHEN, US
[71] DOW SILICONES CORPORATION, US
[85] 2024-03-25
[86] 2022-09-26 (PCT/US2022/044687)
[87] (WO2023/055680)
[30] US (63/250,248) 2021-09-30

[21] **3,233,014**
[13] A1
[51] **Int.Cl. A61K 31/7115 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR AVOIDING OFF-TARGET EFFECTS**
[54] **PROCEDES ET COMPOSITIONS POUR EVITER DES EFFETS HORS CIBLE**
[72] DRYGIN, DENIS, US
[72] KINBERGER, GARTH A., US
[72] LEE, EDMUND CHUN YU, US
[71] REGULUS THERAPEUTICS INC., US
[85] 2024-03-25
[86] 2022-10-07 (PCT/US2022/077767)
[87] (WO2023/060238)
[30] US (63/253,917) 2021-10-08

[21] **3,233,015**
[13] A1
[51] **Int.Cl. H04W 68/00 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR PAGING ENHANCEMENT IN MT-SDT**
[54] **PROCEDES ET APPAREILS D'AMELIORATION DE RADIOMESSAGERIE DANS MT-SDT**
[72] YUE, RAN, CN
[72] WU, LIANHAI, CN
[72] HAN, JING, CN
[72] DAI, MINGZENG, CN
[72] XU, MIN, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-25
[86] 2021-12-17 (PCT/CN2021/139266)
[87] (WO2023/108634)

[21] **3,233,016**
[13] A1
[51] **Int.Cl. H04W 72/04 (2023.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR SUPPORTING A PACKET DISCARDING OPERATION IN A PDCP LAYER DUE TO A PACKET LOSS**
[54] **PROCEDES ET APPAREILS POUR PRENDRE EN CHARGE UNE OPERATION DE REJET DE PAQUETS DANS UNE COUCHE PDCP EN RAISON D'UNE PERTE DE PAQUET**
[72] ZHANG, CONGCHI, CN
[72] DAI, MINGZENG, CN
[72] WU, LIANHAI, CN
[72] HAN, JING, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-25
[86] 2021-12-23 (PCT/CN2021/140926)
[87] (WO2023/115473)

[21] **3,233,017**
[13] A1
[51] **Int.Cl. C08L 71/00 (2006.01) C08L 83/04 (2006.01)**
[25] EN
[54] **MOISTURE CURABLE COMPOSITIONS**
[54] **COMPOSITIONS DURCISSABLES A L'HUMIDITE**
[72] MARCHAND, CHRISTINE, US
[72] AHN, DONGCHAN, US
[72] DESSILLY, THIERRY, BE
[72] DETEMMERMAN, TOMMY, BE
[72] HLINKA, STEPHEN, US
[71] DOW SILICONES CORPORATION, US
[85] 2024-03-25
[86] 2022-09-26 (PCT/US2022/044688)
[87] (WO2023/055681)
[30] US (63/250,249) 2021-09-30

[21] **3,233,018**
[13] A1
[51] **Int.Cl. C08L 83/04 (2006.01)**
[25] EN
[54] **MOISTURE CURABLE COMPOSITIONS**
[54] **COMPOSITIONS DURCISSABLES A L'HUMIDITE**
[72] MARCHAND, CHRISTINE, US
[72] AHN, DONGCHAN, US
[72] DETEMMERMAN, TOMMY, BE
[72] HLINKA, STEPHEN, US
[71] DOW SILICONES CORPORATION, US
[85] 2024-03-25
[86] 2022-09-26 (PCT/US2022/044690)
[87] (WO2023/055682)
[30] US (63/250,250) 2021-09-30

[21] **3,233,019**
[13] A1
[51] **Int.Cl. C08L 95/00 (2006.01) C08H 7/00 (2011.01) C08L 97/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING A BINDER FOR AN ASPHALT COMPOSITION**
[54] **PROCEDE DE PRODUCTION D'UN LIANT POUR UNE COMPOSITION D'ASPHALTE**
[72] LOTTI, HEIKKI, SE
[72] EKSTROM, JESPER, SE
[72] ARESKOGH, DIMITRI, SE
[71] STORA ENSO OYJ, FI
[85] 2024-03-25
[86] 2022-11-08 (PCT/IB2022/060726)
[87] (WO2023/084387)
[30] SE (2151383-3) 2021-11-11
[30] SE (2230238-4) 2022-07-12

[21] **3,233,020**
[13] A1
[51] **Int.Cl. C08J 9/12 (2006.01) C08J 9/14 (2006.01) C08J 9/36 (2006.01) C08L 25/06 (2006.01)**
[25] EN
[54] **BARRIER COATING COMPOSITION FOR USE IN MANUFACTURING POLYMER FOAM PRODUCTS**
[54] **COMPOSITION DE REVETEMENT BARRIERE DESTINEE A ETRE UTILISE DANS LA FABRICATION DE PRODUITS EN MOUSSE POLYMERE**
[72] BOUDREAUX, CHASE, US
[72] THOMAS, JEFF, US
[72] WEEKLEY, MITCHELL, US
[72] HEPPE, CHRISTINE, US
[72] FRAZIER, LAURA, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2024-03-25
[86] 2022-09-28 (PCT/US2022/044992)
[87] (WO2023/055773)
[30] US (63/249,246) 2021-09-28

[21] **3,233,021**
[13] A1
[51] **Int.Cl. G16H 40/20 (2018.01) G16H 50/70 (2018.01)**
[25] EN
[54] **COMPUTER ARCHITECTURE FOR GENERATING A REFERENCE DATA TABLE**
[54] **ARCHITECTURE D'ORDINATEUR POUR GENERER UNE TABLE DE DONNEES DE REFERENCE**
[72] KUMAR, NAVEEN, US
[72] ZHANG, JINGWEN, US
[72] SUBRAMANIAN, NISHA, US
[72] NAYAK, GAUTAM, US
[72] HANNA, DAVID, US
[72] LU, SHUNXIN, US
[71] GUARDANT HEALTH, INC., US
[85] 2024-03-25
[86] 2022-09-30 (PCT/US2022/045341)
[87] (WO2023/055994)
[30] US (63/250,912) 2021-09-30
[30] US (PCT/US2022/032250) 2022-06-03
[30] US (PCT/US2022/038941) 2022-07-29
[30] US (PCT/US2022/042262) 2022-08-31

[21] **3,233,022**
[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/365 (2006.01) A61K 8/46 (2006.01) A61K 8/73 (2006.01) A61Q 5/02 (2006.01) A61Q 19/10 (2006.01) C11D 1/12 (2006.01) C11D 3/00 (2006.01)**
[25] EN
[54] **EFFERVESCENT CLEANSING POWDER COMPOSITION**
[54] **COMPOSITION DE POUDRE DE NETTOYAGE EFFERVESCENTE**
[72] BEKTO, HASIBA, NL
[72] DOUTHIT, JENNA CHRISTINE, NL
[72] KEMLER, KAYLA MARIE, NL
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2024-03-25
[86] 2022-08-30 (PCT/EP2022/074093)
[87] (WO2023/061656)
[30] EP (21202863.3) 2021-10-15

[21] **3,233,023**
[13] A1
[51] **Int.Cl. C08H 7/00 (2011.01) C08L 95/00 (2006.01) C08L 97/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING A BINDER FOR AN ASPHALT COMPOSITION**
[54] **PROCEDE DE PRODUCTION DE LIANT DESTINE A UNE COMPOSITION D'ASPHALTE**
[72] LOTTI, HEIKKI, SE
[72] EKSTROM, JESPER, SE
[72] ARESKOGH, DIMITRI, SE
[71] STORA ENSO OYJ, FI
[85] 2024-03-25
[86] 2022-11-08 (PCT/IB2022/060732)
[87] (WO2023/084390)
[30] SE (2151384-1) 2021-11-11
[30] SE (2230237-6) 2022-07-12

[21] **3,233,024**
[13] A1
[51] **Int.Cl. G02B 7/16 (2021.01) F41G 1/38 (2006.01)**
[25] EN
[54] **SCOPE TURRET**
[54] **TOURELLE DE SCOPE**
[72] TOY, SETH, US
[72] PARKS, SCOTT, US
[72] HAMILTON, DAVID, US
[72] MORELL, ROB, US
[71] SHELTERED WINGS, INC. D/B/A VORTEX OPTICS, US
[85] 2024-03-25
[86] 2022-09-27 (PCT/US2022/077074)
[87] (WO2023/056247)
[30] US (63/249,221) 2021-09-28

[21] **3,233,025**
[13] A1
[51] **Int.Cl. C01F 5/24 (2006.01) C01F 11/18 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING A WET GROUND MINERAL MATERIAL**
[54] **PROCEDE DE PREPARATION D'UN MATERIAU MINERAL BROYE PAR VOIE HUMIDE**
[72] IPPOLITO, FABIO, CH
[72] GAILLY, DIANE, FR
[71] OMYA INTERNATIONAL AG, CH
[85] 2024-03-25
[86] 2022-09-29 (PCT/EP2022/077136)
[87] (WO2023/052516)
[30] EP (21200137.4) 2021-09-30

[21] **3,233,026**
[13] A1
[51] **Int.Cl. A61K 8/02 (2006.01) A61K 8/26 (2006.01) A61K 8/36 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **CLEANSING BAR AND COMPOSITION THEREOF**
[54] **PAIN NETTOYANT ET COMPOSITION DE CELUI-CI**
[72] WU, GUOHUI, NL
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2024-03-25
[86] 2022-10-25 (PCT/EP2022/079707)
[87] (WO2023/072898)
[30] EP (21205768.1) 2021-11-01

[21] **3,233,027**
[13] A1
[51] **Int.Cl. C08G 63/06 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **POLY-3-HYDROXYALKANOATES HAVING VINYL MOIETIES AND METHOD OF PRODUCING SUCH**
[54] **POLY-3-HYDROXYALCANOATES AYANT DES FRAGMENTS VINYLE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] RAMSAY, BRUCE, CA
[72] RAMSAY, JULIANA, CA
[72] SANCHEZ-FLORES, ARACELI, MX
[71] POLYFERM CANADA INC., CA
[85] 2024-03-25
[86] 2021-10-11 (PCT/IB2021/000690)
[87] (WO2022/074456)
[30] EP (20201070.8) 2020-10-09

[21] **3,233,028**
[13] A1
[51] **Int.Cl. G01T 1/169 (2006.01)**
[25] EN
[54] **METHOD FOR AUTOMATICALLY MAPPING THE RADIATION IN A PORTION OF A BUILDING AND A ROBOT VEHICLE**
[54] **PROCEDE DE CARTOGRAPHIE AUTOMATIQUE DU RAYONNEMENT DANS UNE PARTIE D'UN BATIMENT ET VEHICULE ROBOTISE**
[72] KOHN, SEBASTIAN, DE
[72] SOMMER, OLIVER, DE
[72] ROSEL, FELIX JAN, DE
[72] KLEIDEITER, ANSGAR, DE
[72] MUHAMAD ALI, NAEEL, DE
[72] QUERFURTH, FRANK, DE
[71] FRAMATOME GMBH, DE
[85] 2024-03-25
[86] 2021-11-26 (PCT/EP2021/083199)
[87] (WO2023/093997)

[21] **3,233,029**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12P 19/34 (2006.01)**
[25] EN
[54] **KITS AND METHODS FOR PREPARATION OF NUCLEIC ACID LIBRARIES FOR SEQUENCING**
[54] **KITS ET PROCEDES DE PREPARATION DE BANQUES D'ACIDES NUCLEIQUES POUR SEQUENCAGE**
[72] LEONARD, JACK T., US
[71] SEQWELL, INC., US
[85] 2024-03-25
[86] 2022-09-29 (PCT/US2022/077273)
[87] (WO2023/056366)
[30] US (63/249,653) 2021-09-29

[21] **3,233,030**
[13] A1
[51] **Int.Cl. G01N 5/02 (2006.01) G01N 19/04 (2006.01)**
[25] EN
[54] **METHOD FOR MEASURING CHANGE IN PHYSICAL QUANTITY OF ADHERED SUBSTANCE BY QCM SENSOR**
[54] **PROCEDE DE MESURE DE CHANGEMENT DE QUANTITE PHYSIQUE DE SUBSTANCE ADHEREE AU MOYEN D'UN CAPTEUR QCM**
[72] KITAGAWA, HIROTAKE, JP
[72] MATSUBARA, KOTATSU, JP
[72] OHORI, TAKAHIRO, JP
[72] KASHIHARA, MASAYA, JP
[71] NISSAN CHEMICAL CORPORATION, JP
[85] 2024-03-25
[86] 2022-09-27 (PCT/JP2022/035992)
[87] (WO2023/048296)
[30] JP (2021-157159) 2021-09-27

[21] **3,233,031**
[13] A1
[51] **Int.Cl. H01M 10/0569 (2010.01) H01M 10/052 (2010.01) H01M 10/0567 (2010.01)**
[25] EN
[54] **ELECTROLYTE FOR LITHIUM-SULFUR BATTERY AND LITHIUM-SULFUR BATTERY COMPRISING THE SAME**
[54] **ELECTROLYTE DE BATTERIE AU LITHIUM-SOUFRE ET BATTERIE AU LITHIUM-SOUFRE LE COMPRENANT**
[72] KWACK, HO-BEOM, KR
[72] LEE, CHANG-HOON, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-25
[86] 2023-02-09 (PCT/KR2023/001942)
[87] (WO2024/048877)
[30] KR (10-2022-0110397) 2022-08-31
[30] KR (10-2022-0157791) 2022-11-22

[21] **3,233,032**
[13] A1
[51] **Int.Cl. C10B 57/04 (2006.01) G01N 21/17 (2006.01) G01N 21/47 (2006.01)**
[25] EN
[54] **COAL ANALYZER, COAL ANALYSIS METHOD, MIXED COAL PREPARATION METHOD, AND COKE PRODUCTION METHOD**
[54] **ANALYSEUR DE CHARBON, PROCEDE D'ANALYSE DE CHARBON, PROCEDE DE PREPARATION DE CHARBON MELANGE ET PROCEDE DE PRODUCTION DE COKE**
[72] TSUBOI, TOSHIKI, JP
[72] KAMEZAKI, SHUNICHI, JP
[71] JFE STEEL CORPORATION, JP
[85] 2024-03-25
[86] 2022-09-20 (PCT/JP2022/034999)
[87] (WO2023/054065)
[30] JP (2021-161012) 2021-09-30

[21] **3,233,033**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 47/10 (2017.01) A61K 47/34 (2017.01) A61L 27/00 (2006.01) A61L 27/26 (2006.01) A61L 27/54 (2006.01) A61L 27/58 (2006.01)**
[25] EN
[54] **DEGRADABLE INTRAUTERINE SYSTEM FOR THE PROLONGED RELEASE OF AN ACTIVE INGREDIENT IN THE UTERINE CAVITY**
[54] **SYSTEME INTRA-UTERIN DEGRADABLE POUR LA LIBERATION PROLONGEE D'UN PRINCIPE ACTIF DANS LA CAVITE UTERINE**
[72] GARRIC, XAVIER, FR
[72] ISSENMANN, GONZAGUE, FR
[72] LEPRINCE, SALOME, FR
[71] WOMED, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE MONTPELLIER, FR
[71] ECOLE NATIONALE SUPERIEURE DE CHIMIE DE MONTPELLIER, FR
[85] 2024-03-25
[86] 2022-10-04 (PCT/EP2022/077597)
[87] (WO2023/057456)
[30] FR (FR2110538) 2021-10-05

[21] **3,233,034**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING MODEL VALIDATION**
[54] **SYSTEME ET PROCEDE DE VALIDATION DE MODELE D'APPRENTISSAGE AUTOMATIQUE ET D'INTELLIGENCE ARTIFICIELLE**
[72] VAN BRUWAENE, DAVID, CA
[72] MAIDEN, STUART, CA
[72] GRADOJEVIC, NIKOLA, CA
[71] FAIRLY AI INC., CA
[85] 2024-03-25
[86] 2022-09-27 (PCT/CA2022/000053)
[87] (WO2023/044555)
[30] US (63/248,933) 2021-09-27

[21] **3,233,035**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/03 (2006.01) C07K 7/00 (2006.01)**
[25] EN
[54] **TRICYCLIC POLYPEPTIDE CONJUGATED DRUG AND USE THEREOF**
[54] **MEDICAMENT CONJUGUE A UN POLYPEPTIDE TRICYCLIQUE ET SON UTILISATION**
[72] LI, HUINING, CN
[72] XIA, JIANHUA, CN
[72] JIANG, ZHIGAN, CN
[72] HE, HAIYING, CN
[72] CHEN, SHUHUI, CN
[71] CONJUSTAR (ZHUHAI) BIOLOGICS CO., LTD., CN
[85] 2024-03-25
[86] 2022-09-23 (PCT/CN2022/120832)
[87] (WO2023/051396)
[30] CN (202111150517.5) 2021-09-29
[30] CN (202111216628.1) 2021-10-19

[21] **3,233,036**
[13] A1
[51] **Int.Cl. A61B 18/02 (2006.01)**
[25] EN
[54] **MULTI-MODALITY ABLATION CATHETER HAVING A SHAPE MEMORY STYLET**
[54] **CATHETER D'ABLATION MULTIMODALITES AYANT UN STYLET A MEMOIRE DE FORME**
[72] RUPP, KEVIN D., US
[72] BABKIN, ALEXEI V., US
[72] SHAHRIARI, SHIRZAD, US
[72] CHONG, HOU MAN, US
[72] NOURIAN, PEDRAM, US
[72] AHMED, FAYSAL S., US
[71] ADAGIO MEDICAL, INC., US
[85] 2024-03-25
[86] 2022-09-22 (PCT/US2022/076874)
[87] (WO2023/056211)
[30] US (17/489,213) 2021-09-29

[21] **3,233,037**
[13] A1
[51] **Int.Cl. H01M 4/04 (2006.01) H01M 4/13 (2010.01) H01M 4/139 (2010.01) H01M 4/64 (2006.01) H01M 10/0525 (2010.01) H01M 10/054 (2010.01)**
[25] EN
[54] **ELECTRODES COMPRISING COVALENTLY JOINED CARBONACEOUS AND METALLOID POWDERS AND METHODS OF MANUFACTURING SAME**
[54] **ELECTRODES COMPRENANT DES POUDRES CARBONEES ET METALLOIDES LIEES DE MANIERE COVALENTE ET LEURS PROCEDES DE FABRICATION**
[72] RANGOM, YVERICK PASCAL, CA
[72] POPE, MICHAEL ALLAN, CA
[71] RANGOM, YVERICK PASCAL, CA
[71] POPE, MICHAEL ALLAN, CA
[85] 2024-03-25
[86] 2022-09-26 (PCT/CA2022/051418)
[87] (WO2023/044579)
[30] US (63/248,293) 2021-09-24

[21] **3,233,038**
[13] A1
[51] **Int.Cl. C07C 53/10 (2006.01) A61P 3/10 (2006.01) C07C 237/04 (2006.01)**
[25] EN
[54] **MONOHYDRATE SALT OF DENATONIUM ACETATE**
[54] **SEL MONOHYDRATE D'ACETATE DE DENATONIUM**
[72] OSTER, JEFFREY, US
[72] ZEILER, ANDREW, US
[71] AARDVARK THERAPEUTICS INC., US
[85] 2024-03-25
[86] 2022-10-13 (PCT/US2022/046585)
[87] (WO2023/064480)
[30] US (63/255,947) 2021-10-14

[21] **3,233,039**
[13] A1
[51] **Int.Cl. A23L 33/105 (2016.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 36/185 (2006.01) C07C 37/68 (2006.01) C07C 37/74 (2006.01) C07C 37/84 (2006.01) A01H 6/28 (2018.01) C07C 37/70 (2006.01)**
[25] EN
[54] **FULL SPECTRUM HEMP OIL COMPOSITIONS FIELD**
[54] **DOMAINE DE COMPOSITIONS D'HUILE DE CHANVRE A SPECTRE COMPLET**
[72] HORVATH, ANDREW, US
[72] RAYNAUD, RYAN, US
[71] CHEMTOR, LP, US
[85] 2024-03-25
[86] 2022-09-27 (PCT/US2022/077114)
[87] (WO2023/056262)
[30] US (17/489,255) 2021-09-29

[21] **3,233,040**
[13] A1
[51] **Int.Cl. C12N 5/0786 (2010.01)**
[25] EN
[54] **METHOD FOR THE GENERATION OF NON-TRANSFORMED MACROPHAGE CELL LINE**
[54] **PROCEDE DE GENERATION D'UNE LIGNEE DE CELLULES MACROPHAGES NON TRANSFORMEES**
[72] FEJER, GYORGY, GB
[72] LOPATECKA, JUSTYNA, GB
[71] UNIVERSITY OF PLYMOUTH, GB
[85] 2024-03-25
[86] 2022-09-22 (PCT/EP2022/076456)
[87] (WO2023/046873)
[30] GB (2113747.6) 2021-09-27
[30] GB (2210102.6) 2022-07-09

[21] **3,233,041**
[13] A1
[51] **Int.Cl. B60G 17/08 (2006.01) F15B 1/02 (2006.01)**
[25] EN
[54] **HYDRAULIC SUSPENSION APPARATUS, HYDRAULIC SUSPENSION SYSTEM HAVING SAME, AND VEHICLE**
[54] **APPAREIL DE SUSPENSION HYDRAULIQUE, SYSTEME DE SUSPENSION HYDRAULIQUE LE COMPRENANT, ET VEHICULE**
[72] LIAN, YUBO, CN
[72] LIAO, YINSHENG, CN
[72] XU, HAOLUN, CN
[72] ZHANG, HONGZHOU, CN
[72] HUANG, TAISHUO, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-25
[86] 2022-12-30 (PCT/CN2022/143998)
[87] (WO2023/125949)
[30] CN (202111655945.3) 2021-12-30

[21] **3,233,042**
[13] A1
[51] **Int.Cl. H01M 10/48 (2006.01)**
[25] EN
[54] **VOLTAGE ACQUISITION STRUCTURE, AND BATTERY MODULE HAVING VOLTAGE ACQUISITION STRUCTURE**
[54] **STRUCTURE D'ACQUISITION DE TENSION ET MODULE DE BATTERIE COMPORTANT UNE STRUCTURE D'ACQUISITION DE TENSION**
[72] YIN, JIWEI, CN
[72] ZENG, ERPING, CN
[72] ZHENG, WEIXIN, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-25
[86] 2022-11-22 (PCT/CN2022/133368)
[87] (WO2023/124652)
[30] CN (202123317998.2) 2021-12-27

[21] **3,233,043**
[13] A1
[51] **Int.Cl. H02B 1/24 (2006.01) H01M 50/519 (2021.01)**
[25] EN
[54] **POWER DISTRIBUTION APPARATUS, BATTERY PACK AND VEHICLE**
[54] **APPAREIL DE DISTRIBUTION D'ENERGIE, BLOC-BATTERIE ET VEHICULE**
[72] GAO, JIAN, CN
[72] E, CONGJI, CN
[72] ZHAO, XIAOPENG, CN
[72] PENG, QINGBO, CN
[72] WU, ZHENHAN, CN
[72] WANG, CHENGZHI, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-25
[86] 2022-11-18 (PCT/CN2022/132834)
[87] (WO2023/116293)
[30] CN (202123233795.5) 2021-12-20
[30] CN (202210182099.6) 2022-02-25

[21] **3,233,044**
[13] A1
[51] **Int.Cl. H01M 50/291 (2021.01) H01M 50/204 (2021.01) H01M 50/258 (2021.01)**
[25] EN
[54] **BATTERY MODULE, BATTERY PACK, AND VEHICLE**
[54] **MODULE DE BATTERIE, BLOC-BATTERIE ET VEHICULE**
[72] SONG, RU, CN
[72] LANG, XIAOQIANG, CN
[72] ZHOU, YANFEI, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-25
[86] 2022-12-29 (PCT/CN2022/143295)
[87] (WO2023/125778)
[30] CN (202123434534.X) 2021-12-30
[30] CN (202210264796.6) 2022-03-17

[21] **3,233,045**
[13] A1
[51] **Int.Cl. B01D 17/035 (2006.01)**
[25] EN
[54] **WATER EMULSIONS SEPARATION SYSTEM AND PROCESS**
[54] **SYSTEME ET PROCEDE DE SEPARATION D'EMULSIONS D'EAU**
[72] BRETT, DOUGLAS JAMES, CA
[72] LINCZ, RONALD OTTO, CA
[71] AVONLEA TECHNOLOGY HOLDINGS CORP., CA
[85] 2024-03-25
[86] 2021-09-27 (PCT/IB2021/058805)
[87] (WO2023/047169)

[21] **3,233,046**
[13] A1
[51] **Int.Cl. A63F 9/02 (2006.01) A63F 13/837 (2014.01)**
[25] EN
[54] **INTELLIGENT PHONE CASE APPARATUS AND METHODS**
[54] **APPAREIL ET PROCEDES DE BOITIER DE TELEPHONE INTELLIGENT**
[72] SCHUMACHER, DEAN, US
[71] SCHUMACHER, DEAN, US
[85] 2024-03-20
[86] 2022-07-07 (PCT/US2022/036394)
[87] (WO2023/283362)
[30] US (63/218,968) 2021-07-07
[30] US (63/314,863) 2022-02-28

[21] **3,233,047**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) G01N 33/574 (2006.01)**
[25] EN
[54] **METHODS FOR DISEASE ASSESSMENT USING DRAIN FLUID**
[54] **PROCEDES D'EVALUATION DE MALADIE A L'AIDE D'UN FLUIDE DE DRAINAGE**
[72] ZEVALLOS, JOSE P., US
[72] CHAUDHURI, AADEL, US
[72] LAPIDUS, STANLEY N., US
[72] TRIBBLE, THERESA, US
[71] DROPLET BIOSCIENCES, INC., US
[71] THE WASHINGTON UNIVERSITY, US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/044011)
[87] (WO2023/044118)
[30] US (63/246,256) 2021-09-20

[21] **3,233,049**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **LYMPHATIC FLUID FOR DIAGNOSTICS**
[54] **FLUIDE LYMPHATIQUE POUR DIAGNOSTIC**
[72] ZEVALLOS, JOSE P., US
[72] CHAUDHURI, AADEL, US
[72] LAPIDUS, STANLEY N., US
[71] DROPLET BIOSCIENCES, INC., US
[71] THE WASHINGTON UNIVERSITY, US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/044012)
[87] (WO2023/044119)
[30] US (63/246,254) 2021-09-20

[21] **3,233,050**
[13] A1
[51] **Int.Cl. B01D 21/00 (2006.01) B01D 21/24 (2006.01) B01D 21/26 (2006.01) C02F 1/38 (2006.01) E03F 5/14 (2006.01)**
[25] EN
[54] **CIRCULAR GRIT REMOVER WITH TUBE SETTLERS**
[54] **DESSABLEUR CIRCULAIRE DOTE DE DECANTEURS A TUBE**
[72] KELLY, JOHN K., US
[72] ZUZELSKI, ALEXANDER P., US
[72] MRKVICKA, RODNEY S., US
[71] SMITH & LOVELESS, INC., US
[85] 2024-03-26
[86] 2021-09-30 (PCT/US2021/052811)
[87] (WO2023/055369)

[21] **3,233,051**
[13] A1
[51] **Int.Cl. A61M 27/00 (2006.01) A61M 1/00 (2006.01)**
[25] EN
[54] **DUAL PORT DRAIN**
[54] **DRAIN A DOUBLE ORIFICE**
[72] ZEVALLOS, JOSE P., US
[72] CHAUDHURI, AADEL, US
[72] LAPIDUS, STANLEY N., US
[71] DROPLET BIOSCIENCES, INC., US
[71] THE WASHINGTON UNIVERSITY, US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/044013)
[87] (WO2023/044120)
[30] US (63/246,255) 2021-09-20

[21] **3,233,052**
[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **CONTROLLED LESION AND IMMUNE RESPONSE TO PULSED ELECTRIC FIELD THERAPY**
[54] **LESION ET REPONSE IMMUNITAIRE A UNE THERAPIE PAR CHAMP ELECTRIQUE PULSE MAITRISEES**
[72] O'BRIEN, TIMOTHY J., US
[72] KRIMSKY, WILLIAM S., US
[72] SILVESTRINI, MATTHEW T., US
[72] PASTORI, CHIARA, US
[72] NEAL, ROBERT E., II, US
[72] WALDSTREICHER, JONATHAN R., US
[71] GALVANIZE THERAPEUTICS, INC., US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/044021)
[87] (WO2023/044124)
[30] US (63/246,239) 2021-09-20
[30] US (63/290,529) 2021-12-16
[30] US (63/322,319) 2022-03-22
[30] US (63/351,562) 2022-06-13

[21] **3,233,053**
[13] A1
[51] **Int.Cl. A61B 17/56 (2006.01) A61F 2/95 (2013.01) A61B 17/00 (2006.01) A61F 2/01 (2006.01) A61M 25/00 (2006.01) A61M 39/00 (2006.01) A61F 2/82 (2013.01)**
[25] EN
[54] **DELIVERY AND DEPLOYMENT OF A PROSTATIC IMPLANT**
[54] **POSE ET DEPLOIEMENT D'UN IMPLANT PROSTATIQUE**
[72] JUAN, CHUN-CHIA, TW
[72] LI, ZONG-LIN, TW
[72] CHU, DE-YU, TW
[72] LIN, YU-CHEN, TW
[72] HSU, CHIU-MING, TW
[72] WENG, YU-SHIH, TW
[72] CHEN, YING-SIAO, TW
[71] PREDEON MEDICAL CORPORATION, TW
[85] 2024-03-20
[86] 2022-09-20 (PCT/US2022/044075)
[87] (WO2023/044142)
[30] US (63/246,040) 2021-09-20

[21] **3,233,054**
[13] A1
[51] **Int.Cl. A61K 31/341 (2006.01) A61K 31/495 (2006.01) A61K 9/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AND PREVENTING INTERSTITIAL CYSTITIS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT ET DE PREVENTION DE LA CYSTITE INTERSTITIELLE**
[72] HOGAN II, REED B., US
[72] DOOLEY, THOMAS P., US
[72] PAUL, DOUGLAS R., US
[71] HISTA RX LLC, US
[85] 2024-03-20
[86] 2022-09-21 (PCT/US2022/044283)
[87] (WO2023/049205)
[30] US (63/247,198) 2021-09-22

[21] **3,233,055**
[13] A1
[51] **Int.Cl. A61B 1/012 (2006.01) A61B 1/018 (2006.01) A61M 16/04 (2006.01) A61M 25/01 (2006.01)**
[25] EN
[54] **STYLET AND BOUGIE DEVICE**
[54] **STYLET ET DISPOSITIF DE BOUGIE**
[72] MOLNAR, ROBERT W., US
[71] WM&DG, INC., US
[85] 2024-03-20
[86] 2022-09-22 (PCT/US2022/044342)
[87] (WO2023/049240)
[30] US (63/247,463) 2021-09-23

[21] **3,233,057**
[13] A1
[51] **Int.Cl. C07D 491/056 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **EGFR INHIBITOR POLYMORPH FORMS**
[54] **FORMES POLYMORPHES D'INHIBITEUR D'EGFR**
[72] VERNIER, JEAN-MICHEL, US
[72] BLATTER, FRITZ, CH
[72] MAIER, AXEL RAINER, DE
[72] TUFILLI, NICOLINO, CH
[71] ERASCA, INC., US
[71] BLATTER, FRITZ, CH
[71] MAIER, AXEL RAINER, DE
[71] TUFILLI, NICOLINO, CH
[85] 2024-03-20
[86] 2022-09-23 (PCT/US2022/044475)
[87] (WO2023/049312)

[21] **3,233,059**
[13] A1
[51] **Int.Cl. H04L 65/80 (2022.01) H04L 67/1008 (2022.01) H04L 67/101 (2022.01) H04L 67/1017 (2022.01) H04L 67/1021 (2022.01) H04L 67/1031 (2022.01) H04L 67/1034 (2022.01) H04L 67/1095 (2022.01) H04L 67/568 (2022.01) H04L 67/61 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR STREAMING MEDIA CONTENT DURING UNAVAILABILITY OF CONTENT SERVER**
[54] **SYSTEMES ET PROCEDES DE DIFFUSION EN CONTINU D'UN CONTENU MULTIMEDIA PENDANT L'INDISPONIBILITE D'UN SERVEUR DE CONTENU**
[72] CHANNAPRAGADA, SRIKANTH, IN
[72] BHADULA, ISHAN, IN
[72] SEHGAL, VIVEK, IN
[72] ALAPATI, GREESHMA JAGADHA PHANI LAKSHMI, IN
[72] GUPTA, VIKRAM MAKAM, IN
[72] HARB, REDA, US
[71] ROVI GUIDES, INC., US
[85] 2024-03-20
[86] 2022-09-29 (PCT/US2022/045165)
[87] (WO2023/055886)
[30] US (17/490,905) 2021-09-30

[21] **3,233,060**
[13] A1
[51] **Int.Cl. A61K 31/01 (2006.01) A61K 31/015 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01)**
[25] EN
[54] **HEMP EXTRACT FOR TREATMENT OF PAIN, CANCER AND EPILEPSY IN ANIMALS**
[54] **EXTRAIT DE CHANVRE POUR LE TRAITEMENT DE LA DOULEUR, DU CANCER ET DE L'EPILEPSIE CHEZ LES ANIMAUX**
[72] WAKSHLAG, JOSEPH, US
[72] HOWLAND, AMANDA, US
[72] KJAER, CHRISTIAN, US
[71] PORTLAND TECHNOLOGY HOLDINGS LLC, US
[85] 2024-03-20
[86] 2022-10-13 (PCT/US2022/046583)
[87] (WO2023/064478)
[30] US (63/262,457) 2021-10-13
[30] US (63/269,308) 2022-03-14

[21] **3,233,061**
[13] A1
[51] **Int.Cl. C07C 31/04 (2006.01) B01D 53/02 (2006.01) B01J 8/04 (2006.01) C07C 29/152 (2006.01)**
[25] EN
[54] **REACTOR AND METHOD FOR SYNTHESIZING METHANOL**
[54] **REACTEUR ET PROCEDE POUR LA SYNTHESE DE METHANOL**
[72] HAAG, STEPHANE, DE
[72] DO, NGA THI QUYNH, DE
[72] GRONEMANN, VERONIKA, DE
[72] OELMANN, TOBIAS, DE
[72] REICHINGER, MARKUS, DE
[72] REITMEIER, STEPHAN J., DE
[72] SCHWARZ, HEINER, DE
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2024-03-21
[86] 2022-09-20 (PCT/EP2022/076105)
[87] (WO2023/046685)
[30] EP (21198533.8) 2021-09-23

[21] **3,233,063**
[13] A1
[51] **Int.Cl. B60N 2/28 (2006.01)**
[25] EN
[54] **BABY CARRIER AND MANUFACTURING METHOD THEREOF**
[54] **PORTE-BEBE ET SON PROCEDE DE FABRICATION**
[72] GUO, ZHENGWEN, CH
[72] CHEN, YINGZHONG, CH
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2024-03-21
[86] 2022-09-21 (PCT/EP2022/076209)
[87] (WO2023/046742)
[30] CN (202111109185.6) 2021-09-22

[21] **3,233,064**
[13] A1
[51] **Int.Cl. B01D 39/18 (2006.01) D04H 1/425 (2012.01) D04H 1/587 (2012.01) D04H 1/732 (2012.01) B65D 85/804 (2006.01) D04H 1/00 (2006.01) D04H 1/58 (2012.01) D04H 1/64 (2012.01)**
[25] EN
[54] **THERMOPLASTIC-IMPREGNATED CELLULOSIC NONWOVEN AS A COMPOSTABLE FILTER MATERIAL FOR LIQUIDS**
[54] **NON-TISSE CELLULOSIQUE IMPREGNE DE THERMOPLASTIQUE EN TANT QUE MATERIAU FILTRANT COMPOSTABLE POUR LIQUIDES**
[72] BARDET, RAPHAEL, FR
[72] VIGOUREUX, MARJORIE, FR
[71] AHLSTROM OYJ, FI
[85] 2024-03-21
[86] 2022-09-23 (PCT/EP2022/076530)
[87] (WO2023/046904)
[30] EP (21198890.2) 2021-09-24

[21] **3,233,067**
[13] A1
[51] **Int.Cl. B02C 17/18 (2006.01) B02C 17/22 (2006.01)**
[25] EN
[54] **GRATE PLATE FOR A PULP LIFTER OF A GRINDING MILL**
[54] **PLAQUE DE GRILLE DESTINEE A UN DISPOSITIF DE LEVAGE DE PATE D'UN BROYEUR**
[72] VYORAL, JAKUB, CZ
[71] METSO FINLAND OY, FI
[85] 2024-03-21
[86] 2022-09-23 (PCT/EP2022/076531)
[87] (WO2023/046905)
[30] SE (2151173-8) 2021-09-24

[21] **3,233,069**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 37/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT OF LUPUS**
[54] **TRAITEMENT DU LUPUS**
[72] TUMMALA, RAJENDRA, US
[72] MORAND, ERIC, AU
[72] ABREU, GABRIEL, SE
[71] ASTRAZENECA AB, SE
[85] 2024-03-21
[86] 2022-10-03 (PCT/EP2022/077438)
[87] (WO2023/057369)
[30] US (63/262,039) 2021-10-04

[21] **3,233,070**
[13] A1
[51] **Int.Cl. C23C 14/24 (2006.01) C23C 14/14 (2006.01) C23C 14/56 (2006.01)**
[25] EN
[54] **VAPOUR NOZZLE FOR PVD**
[54] **BUSE A VAPEUR POUR PVD**
[72] RUWET, VINCENT, BE
[72] PACE, SERGIO, BE
[72] GILLET, OCEANE, BE
[71] ARCELORMITTAL, LU
[85] 2024-03-21
[86] 2022-09-05 (PCT/IB2022/058332)
[87] (WO2023/062454)
[30] IB (PCT/IB2021/059432) 2021-10-14

[21] **3,233,071**
[13] A1
[51] **Int.Cl. C12M 1/12 (2006.01) C12M 1/32 (2006.01) C12M 3/06 (2006.01)**
[25] EN
[54] **MANIFOLDS, SYSTEMS AND METHODS FOR CONDUCTING BIOLOGICAL STUDIES UNDER FLOW**
[54] **COLLECTEURS, SYSTEMES ET PROCEDES POUR EFFECTUER DES ETUDES BIOLOGIQUES SOUS ECOULEMENT**
[72] GRIGORYAN, BAGRAT, US
[72] MILLER, JORDAN, US
[72] ALIKAH, SELENE, US
[72] GELBER, MATTHEW, US
[72] JIVAN, FARAZ, US
[72] RUIZ, ANDRES, US
[72] SNOOK, JACOB, US
[71] 3D SYSTEMS, INC., US
[85] 2024-03-21
[86] 2022-09-20 (PCT/IB2022/058885)
[87] (WO2023/047282)
[30] US (63/248,404) 2021-09-24

[21] **3,233,073**
[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01) A61K 36/25 (2006.01) A61K 36/258 (2006.01) A61K 36/324 (2006.01) A61K 36/424 (2006.01) A61K 36/53 (2006.01) A61K 36/537 (2006.01) A61P 29/00 (2006.01) A61K 36/534 (2006.01) A61K 36/738 (2006.01) A61P 1/00 (2006.01) A61P 3/00 (2006.01) A61P 5/00 (2006.01) A61P 7/00 (2006.01) A61P 31/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING OR PREVENTING INFLAMMATORY DISEASES INCLUDING DIABETES AND THYROID DISEASES**
[54] **COMPOSITIONS ET METHODES POUR TRAITER OU PREVENIR DES MALADIES INFLAMMATOIRES, Y COMPRIS LE DIABETE ET LES MALADIES THYROIDIENNES**
[72] ALKALAY, RACHEL, IL
[71] ALKALAY, RACHEL, IL
[85] 2024-03-21
[86] 2022-09-22 (PCT/IB2022/058945)
[87] (WO2023/047317)
[30] US (63/247,328) 2021-09-23

[21] **3,233,074**
[13] A1
[51] **Int.Cl. A61K 31/351 (2006.01) A61K 31/381 (2006.01) A61K 31/496 (2006.01) A61K 31/519 (2006.01) A61K 31/551 (2006.01) A61K 31/554 (2006.01) A61K 45/06 (2006.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) A61P 25/18 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)**
[25] EN
[54] **METHODS OF TREATING METABOLIC DISORDERS**
[54] **METHODES DE TRAITEMENT DE TROUBLES METABOLIQUES**
[72] BRISTOW, LINDA JANE, US
[72] DEDIC, NINA, US
[72] HAJOS-KORCSOK, EVA, US
[72] HOPKINS, SETH CABOT, US
[72] JONES, PHILIP GLYN, US
[72] KOBLAN, KENNETH S., US
[72] MILANOVIC, SNEZANA, US
[72] SYNAN, COLLEEN MARIE, US
[72] XIONG, KUANGNAN, US
[71] SUMITOMO PHARMA AMERICA, INC., US
[85] 2024-03-20
[86] 2022-09-21 (PCT/US2022/076747)
[87] (WO2023/049721)
[30] US (63/261,515) 2021-09-23
[30] US (63/362,003) 2022-03-28

[21] **3,233,075**
[13] A1
[51] **Int.Cl. C07K 14/55 (2006.01) A61K 38/20 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **INTERLEUKIN-2 MUTANT AND FUSION PROTEIN THEREOF**
[54] **MUTANT DE L'INTERLEUKINE-2 ET SA PROTEINE DE FUSION**
[72] HE, KAIJIE, CN
[72] FU, FENGGEN, CN
[72] WU, WEIWEI, CN
[72] ZHOU, SHUAIXIANG, CN
[72] GUAN, JIAN, CN
[71] FORTVITA BIOLOGICS (SINGAPORE) PTE. LTD., SG
[85] 2024-03-21
[86] 2022-09-21 (PCT/CN2022/120265)
[87] (WO2023/045977)
[30] CN (202111110032.3) 2021-09-22

[21] **3,233,076**
[13] A1
[51] **Int.Cl. A01N 25/02 (2006.01) A01N 43/42 (2006.01) A01N 43/653 (2006.01) A01N 43/90 (2006.01) A01N 47/38 (2006.01)**
[25] EN
[54] **A PROCESS OF PREPARING AN AGROCHEMICAL OIL DISPERSION AND PRODUCT THEREOF**
[54] **PROCEDE DE PREPARATION D'UNE DISPERSION HUILEUSE AGROCHIMIQUE ET PRODUIT ASSOCIE**
[72] SHIRSAT, RAJAN RAMAKANT, IN
[72] SHARMA, SHIV KUMAR, IN
[72] SAPKALE, PRADEEP SHAMRAO, IN
[71] UPL LIMITED, IN
[85] 2024-03-21
[86] 2022-09-28 (PCT/IB2022/059211)
[87] (WO2023/053014)
[30] IN (202121044003) 2021-09-28

[21] **3,233,078**
[13] A1
[51] **Int.Cl. G16H 20/10 (2018.01) G16H 20/13 (2018.01) G16H 10/60 (2018.01) A61J 7/00 (2006.01)**
[25] EN
[54] **AUTOMATED SYSTEMS AND METHODS FOR ASSEMBLING DOSES OF A MEDICATION**
[54] **SYSTEMES ET PROCEDES AUTOMATISES D'ASSEMBLAGE DE DOSES D'UN TRAITEMENT PHARMACOLOGIQUE**
[72] POKORNY, MICHAEL, US
[72] NORBECK, AMBER, US
[72] BAUER, BRADLEY, US
[72] HOFFMANN, THOMAS, US
[72] SCHICK, STEVE, US
[71] OPIO CONNECT, INC., US
[85] 2024-03-20
[86] 2022-09-23 (PCT/US2022/076957)
[87] (WO2023/049855)
[30] US (63/247,576) 2021-09-23
[30] US (63/340,844) 2022-05-11
[30] US (63/353,389) 2022-06-17

[21] **3,233,079**
[13] A1
[51] **Int.Cl. A23C 20/02 (2021.01) A23D 7/00 (2006.01)**
[25] EN
[54] **IMITATION CHEESE, METHOD FOR PRODUCING IMITATION CHEESE, AND FOOD PRODUCT**
[54] **FROMAGE D'IMITATION AINSI QUE PROCEDE DE FABRICATION DE CELUI-CI, ET ALIMENT**
[72] ABE, KAZUMASA, JP
[72] OZAKI, SATORU, JP
[72] SASAKI, KAZUHIRO, JP
[71] ADEKA CORPORATION, JP
[85] 2024-03-21
[86] 2022-09-27 (PCT/JP2022/035926)
[87] (WO2023/054352)
[30] JP (2021-162018) 2021-09-30

[21] **3,233,080**
[13] A1
[51] **Int.Cl. A01H 3/02 (2006.01) A01H 6/46 (2018.01) A01H 3/04 (2006.01)**
[25] EN
[54] **SEEDLING GERMINATION AND GROWTH CONDITIONS**
[54] **CONDITIONS DE GERMINATION ET DE CROISSANCE DE SEMIS**
[72] ANAND, AJITH, US
[72] CHE, PING, US
[72] GORDON-KAMM, WILLIAM JAMES, US
[72] JONES, TODD J., US
[72] RYAN, LARISA A., US
[72] SARDESAI, NAGESH, US
[72] WANG, NING, US
[72] WU, XINLI EMILY, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2024-03-20
[86] 2022-09-26 (PCT/US2022/077036)
[87] (WO2023/056236)
[30] US (63/249,191) 2021-09-28

[21] **3,233,081**
[13] A1
[51] **Int.Cl. A61K 31/4155 (2006.01) A61K 31/4184 (2006.01) A61K 33/06 (2006.01) A61K 39/39 (2006.01)**
[25] EN
[54] **ADJUVANT COMPOSITION COMPRISING STING**
[54] **COMPOSITION D'ADJUVANT COMPRENANT DES AGONISTES DE STING**
[72] BEHNIA, KAMELIA, US
[72] SOBOT, DUNJA, BE
[72] STRODIOT, LAURENT, BE
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE
[85] 2024-03-21
[86] 2022-10-17 (PCT/EP2022/078862)
[87] (WO2023/066872)
[30] EP (21203571.1) 2021-10-19

[21] **3,233,083**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULES FOR DOT1L DEGRADATION AND USES THEREOF**
[54] **PETITES MOLECULES POUR LA DEGRADATION DE DOT1L ET LEURS UTILISATIONS**
[72] QI, JUN, US
[72] SIGUA, LOGAN H., US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2024-03-26
[86] 2022-10-17 (PCT/US2022/046858)
[87] (WO2023/069348)
[30] US (63/256,899) 2021-10-18

[21] **3,233,084**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) A61K 38/00 (2006.01) A61P 35/00 (2006.01) C07K 14/54 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **FUSION PROTEIN DIMER COMPRISING PD-1 AND IL-21, AND USE THEREOF**
[54] **DIMERE DE PROTEINE DE FUSION COMPRENANT PD-1 ET IL-21, ET SON UTILISATION**
[72] SUH, JUNG-KEUN, KR
[71] BIONSYSTEMS INC, KR
[85] 2024-03-21
[86] 2022-09-23 (PCT/KR2022/014297)
[87] (WO2023/048516)
[30] KR (10-2021-0126052) 2021-09-24

[21] **3,233,085**
[13] A1
[51] **Int.Cl. C07K 14/435 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01)**
[25] EN
[54] **COMPOSITION OF RECOMBINANT ANTIGEN BINDING MOLECULES AND METHOD OF MAKING AND USING THEREOF**
[54] **COMPOSITION DE MOLECULES DE LIAISON A UN ANTIGENE RECOMBINANT ET SON PROCEDE DE FABRICATION ET D'UTILISATION**
[72] STAUNTON, DONALD E., US
[72] SIKORSKI, AMA, US
[72] HARLAN, JOHN M., US
[71] SYNERGY IMT, INC., US
[85] 2024-03-20
[86] 2022-09-26 (PCT/US2022/077041)
[87] (WO2023/049909)
[30] US (63/248,322) 2021-09-24

[21] **3,233,086**
[13] A1
[51] **Int.Cl. A61K 39/39 (2006.01) C12N 5/04 (2006.01)**
[25] EN
[54] **SAPONIN PRODUCTION**
[54] **PRODUCTION DE SAPONINES**
[72] MATHY, GREGORY, BE
[71] GLAXOSMITHKLINE BIOLOGICALS SA, BE
[85] 2024-03-21
[86] 2022-10-17 (PCT/EP2022/078884)
[87] (WO2023/066885)
[30] EP (21203583.6) 2021-10-19
[30] GB (2208339.8) 2022-06-07

[21] **3,233,087**
[13] A1
[51] **Int.Cl. C12P 17/06 (2006.01) C12M 1/02 (2006.01) C12M 1/10 (2006.01) C12M 1/40 (2006.01) C12N 9/10 (2006.01) C12N 9/88 (2006.01) C12N 15/10 (2006.01) C12P 7/22 (2006.01) C12Q 1/48 (2006.01) C12Q 1/527 (2006.01)**
[25] EN
[54] **BIOSYNTHESIS OF CANNABINOIDS AND CANNABINOID PRECURSORS**
[54] **BIOSYNTHESE DE CANNABINOIDES ET DE PRECURSEURS DE CANNABINOIDES**
[72] CARVALHO, BRIAN, US
[71] GINKGO BIOWORKS, INC., US
[85] 2024-03-20
[86] 2022-09-29 (PCT/US2022/077253)
[87] (WO2023/056350)
[30] US (63/250,203) 2021-09-29

[21] **3,233,088**
[13] A1
[51] **Int.Cl. C22C 38/04 (2006.01) B32B 15/01 (2006.01) C21D 1/22 (2006.01) C21D 6/00 (2006.01) C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/22 (2006.01) C22C 38/28 (2006.01) C22C 38/32 (2006.01) C22C 38/44 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/54 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01)**
[25] EN
[54] **COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF**
[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET SON PROCEDE DE FABRICATION**
[72] PANAHI, DAMON, US
[72] SONG, HYOJIN, US
[72] CHALLA, VENKATA SAI ANANTH, US
[72] LIN, BRIAN, US
[71] ARCELORMITTAL, LU
[85] 2024-03-21
[86] 2021-10-29 (PCT/IB2021/060008)
[87] (WO2023/073410)

[21] **3,233,089**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **SIGLEC RECEPTOR CHECK POINT INHIBITORS AND METHOD OF USING THEM TO INHIBIT NEOPLASTIC CELL GROWTH**
[54] **INHIBITEURS DE POINT DE CONTROLE DU RECEPTEUR SIGLEC ET LEUR METHODE D'UTILISATION POUR INHIBER LA CROISSANCE DE CELLULES NEOPLASTIQUES**
[72] HYDE, FRED, US
[72] JACKSON, MARK, US
[72] KIRKPATRICK, HEATHER, US
[71] ADVANTIGEN BIOSCIENCES, LLC, US
[85] 2024-03-20
[86] 2022-09-29 (PCT/US2022/077257)
[87] (WO2023/056354)
[30] US (63/250,630) 2021-09-30

[21] **3,233,090**
[13] A1
[51] **Int.Cl. H01M 10/0567 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01)**
[25] EN
[54] **NON-AQUEOUS ELECTROLYTE SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING SAME**
[54] **ELECTROLYTE NON AQUEUX POUR BATTERIE SECONDAIRE AU LITHIUM ET BATTERIE SECONDAIRE AU LITHIUM LE COMPRENANT**
[72] KANG, YOO SUN, KR
[72] LEE, CHUL HAENG, KR
[72] LEE, JUNG HOON, KR
[72] PARK, SOL JI, KR
[72] LEE, JAE WON, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-21
[86] 2022-10-18 (PCT/KR2022/015888)
[87] (WO2023/068772)
[30] KR (10-2021-0142019) 2021-10-22

[21] **3,233,091**
[13] A1
[51] **Int.Cl. C08H 8/00 (2010.01) C08H 99/00 (2010.01) C08L 1/02 (2006.01) C08L 1/08 (2006.01) C08L 97/02 (2006.01) C08L 99/00 (2006.01)**
[25] EN
[54] **ANTHRAQUINONE AND SILANIZED FUNCTIONALIZED MATERIALS DERIVED FROM OLIVE STONE**
[54] **MATERIAUX FONCTIONNALISES PAR ANTHRAQUINONE ET PAR SILANE DERIVES DE LA PIERRE D'OLIVE**
[72] FERNANDEZ DE LAS NIEVES, IGNACIO, ES
[72] PEREZ GALERA, JUANA MARIA, ES
[72] RUIZ MARTINEZ, CRISTINA, ES
[72] RUIZ MUELLE, ANA BELEN, ES
[71] UNIVERSIDAD DE ALMERIA, ES
[85] 2024-03-21
[86] 2022-10-03 (PCT/EP2022/077475)
[87] (WO2023/052647)
[30] EP (21382887.4) 2021-10-01

[21] **3,233,092**
[13] A1
[51] **Int.Cl. H01M 10/0567 (2010.01) H01M 10/052 (2010.01)**
[25] EN
[54] **NON-AQUEOUS ELECTROLYTE SOLUTION FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY INCLUDING SAME**
[54] **ELECTROLYTE NON AQUEUX POUR BATTERIE SECONDAIRE AU LITHIUM, ET BATTERIE SECONDAIRE AU LITHIUM LE COMPRENANT**
[72] OH, JEONG WOO, KR
[72] LEE, CHUL HAENG, KR
[72] AN, YU HA, KR
[72] PARK, SUNG GUK, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-21
[86] 2022-12-08 (PCT/KR2022/019890)
[87] (WO2023/113373)
[30] KR (10-2021-0180099) 2021-12-15
[30] KR (10-2022-0169868) 2022-12-07

[21] **3,233,093**
[13] A1
[51] **Int.Cl. A24F 1/30 (2006.01) A24F 1/14 (2006.01) A24F 5/10 (2006.01) A24F 7/02 (2006.01)**
[25] EN
[54] **PORTABLE WATER PIPE ASSEMBLY**
[54] **ENSEMBLE TUYAU D'EAU PORTABLE**
[72] WIEDEMANN, DANE, US
[72] BAJPAI, AVINASH, US
[72] VOLODARSKY, ROGER, US
[71] PUFF CORPORATION, US
[85] 2024-03-21
[86] 2022-03-28 (PCT/US2022/022129)
[87] (WO2023/055428)
[30] US (63/249,283) 2021-09-28
[30] US (17/491,815) 2021-10-01

[21] **3,233,094**
[13] A1
[51] **Int.Cl. A23L 33/135 (2016.01) A23L 33/00 (2016.01)**
[25] EN
[54] **DOSAGE FORMS FOR THE DELIVERY OF A PROBIOTIC**
[54] **FORMES POSOLOGIQUES POUR L'ADMINISTRATION D'UN PROBIOTIQUE**
[72] GEONNOTTI, III, ANTHONY R., US
[72] GOLAS, PATRICIA L., US
[72] BESINGI, RICHARD, US
[72] PILLAI, SHOBA, US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2024-03-21
[86] 2022-09-20 (PCT/US2022/076693)
[87] (WO2023/049693)
[30] US (63/261,581) 2021-09-24
[30] US (17/933,174) 2022-09-19

[21] **3,233,095**
[13] A1
[51] **Int.Cl. A61K 31/7105 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **THERAPEUTICS FOR HAPLOINSUFFICIENCY CONDITIONS**
[54] **PRODUITS THERAPEUTIQUES DESTINES A DES ETATS D'HAPLO-INSUFFISANCE**
[72] DEMPSEY, GRAHAM T., US
[72] LEWARCH, CAITLIN, US
[72] MCCABE, MATT, US
[72] FINK, JAMES, US
[72] WILLIAMS, LUIS, US
[72] GERBER, DAVID, US
[72] AGRAWAL, SUDHIR, US
[71] Q-STATE BIOSCIENCES, INC., US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/076859)
[87] (WO2023/049800)
[30] US (63/247,783) 2021-09-23

[21] **3,233,096**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ENGINEERING NK CELLS WITH A CAR CONSTRUCT WITH OPTIMAL SIGNALING**
[54] **INGENIERIE DE CELLULES NK AVEC UNE CONSTRUCTION CAR AVEC SIGNALISATION OPTIMALE**
[72] REZVANI, KATY, US
[72] DAHER, MAY, US
[72] BASAR, RAFET, US
[72] ACHARYA, SUNIL, US
[72] UPRETY, NADIMA, US
[72] NUNEZ CORTES, ANA KAREN, US
[72] ENSLEY, EMILY, US
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2024-03-20
[86] 2022-10-19 (PCT/US2022/078331)
[87] (WO2023/069969)
[30] US (63/257,608) 2021-10-20

[21] **3,233,097**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) A61P 25/14 (2006.01) A61P 27/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING KCNQ4-ASSOCIATED HEARING LOSS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE PERTE AUDITIVE ASSOCIEE A KCNQ4**
[72] GRIBBLE, KATHERINE DIANE, US
[72] NG, ROBERT, US
[72] SIMONS, EMMANUEL JOHN, US
[72] ROBINSON, GREGORY SCOTT, US
[71] AKOUOS, INC., US
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/077222)
[87] (WO2023/056329)
[30] US (63/250,857) 2021-09-30
[30] US (63/305,740) 2022-02-02
[30] US (63/309,061) 2022-02-11

[21] **3,233,098**
[13] A1
[51] **Int.Cl. A61K 8/35 (2006.01) A61K 8/37 (2006.01) A61K 8/49 (2006.01) A61K 8/92 (2006.01) A61Q 17/04 (2006.01)**
[25] EN
[54] **SUNSCREEN COMPOSITION WITH CRYSTALLINE ORGANIC SUNSCREEN FILTERS**
[54] **COMPOSITION D'ECRAN SOLAIRE COMPRENANT DES FILTRES SOLAIRES ORGANIQUES CRISTALLINS**
[72] GEE, DAVID, US
[72] GRANT, JAMES, US
[72] WAGERS, CASSANDRA, US
[71] EDGEWELL PERSONAL CARE BRANDS, LLC, US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/076899)
[87] (WO2023/049821)
[30] US (63/247,488) 2021-09-23

[21] **3,233,099**
[13] A1
[51] **Int.Cl. F16L 37/252 (2006.01) F16L 37/088 (2006.01) F16L 37/14 (2006.01)**
[25] EN
[54] **DEVICE FOR LOCKING A BAYONET CLOSURE**
[54] **DISPOSITIF DE VERROUILLAGE D'UNE FERMETURE A BAIONNETTE**
[72] STACH, MICHAL, PL
[72] KULIG, PRZEMYSLAW, PL
[71] NORMA GERMANY GMBH, DE
[85] 2024-03-20
[86] 2022-10-06 (PCT/EP2022/077845)
[87] (WO2023/072551)
[30] DE (10 2021 127 685.3) 2021-10-25

[21] **3,233,100**
[13] A1
[51] **Int.Cl. A61K 35/761 (2015.01) A61K 39/12 (2006.01) C07K 14/005 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **ADENOVIRUSES AND METHODS FOR USING ADENOVIRUSES**
[54] **ADENOVIRUS ET PROCEDES D'UTILISATION D'ADENOVIRUS**
[72] NIAZI, KAYVAN, US
[72] RABIZADEH, SHAHROOZ, US
[71] SAGITTARIUS BIO, INC., US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/076951)
[87] (WO2023/049852)
[30] US (63/261,561) 2021-09-23

[21] **3,233,101**
[13] A1
[51] **Int.Cl. C12N 15/85 (2006.01) A61K 31/7115 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **MICROTUBULE ASSOCIATED PROTEIN TAU (MAPT) IRNA AGENT COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS D'AGENT D'ARNI CIBLANT LA PROTEINE TAU ASSOCIEE AUX MICROTUBULES (MAPT) ET LEURS METHODES D'UTILISATION**
[72] FARLEY, JONATHAN EDWARD, US
[72] SCHLEGEL, MARK K., US
[72] MCININCH, JAMES D., US
[72] ZUBER, JEFFREY, US
[72] CASTORENO, ADAM, US
[72] ABBOTT, STEPHEN, US
[72] BARRY, JOSEPH, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/076979)
[87] (WO2023/049871)
[30] US (63/248,119) 2021-09-24
[30] US (63/321,573) 2022-03-18
[30] US (63/403,327) 2022-09-02

[21] **3,233,102**
[13] A1
[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/16 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CALCULATING CARBON EMISSION REDUCTIONS**
[54] **SYSTEMES ET PROCEDES POUR LE CALCUL DE REDUCTIONS D'EMISSION DE CARBONE**
[72] PANKAU, MARCIN PAWEL, US
[72] SOUKUP, ZACHARY ALAN, US
[71] MESA NATURAL GAS SOLUTIONS, LLC, US
[85] 2024-03-26
[86] 2022-09-20 (PCT/US2022/044076)
[87] (WO2023/049092)
[30] US (17/485,863) 2021-09-27

[21] **3,233,103**
[13] A1
[51] **Int.Cl. G06T 5/00 (2024.01)**
[25] EN
[54] **MULTI-STEP DISPLAY MAPPING AND METADATA RECONSTRUCTION FOR HDR VIDEO**
[54] **MAPPAGE DE DISPOSITIF D'AFFICHAGE EN PLUSIEURS ETAPES ET RECONSTRUCTION DE METADONNEES POUR UNE VIDEO HDR**
[72] ROTTI, SHRUTHI SURESH, US
[72] PYTLARZ, JACLYN ANNE, US
[72] ATKINS, ROBIN, US
[72] GOPALAKRISHNAN, SUBHADRA, US
[71] DOLBY LABORATORIES LICENSING CORPORATION, US
[85] 2024-03-21
[86] 2022-09-28 (PCT/US2022/077127)
[87] (WO2023/056267)
[30] US (63/249,183) 2021-09-28
[30] EP (21210178.6) 2021-11-24
[30] US (63/316,099) 2022-03-03

[21] **3,233,104**
[13] A1
[51] **Int.Cl. C12N 9/02 (2006.01) C12N 9/22 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS COMPRISING PLANTS WITH REDUCED LIPOXYGENASE AND/OR DESATURASE ACTIVITIES**
[54] **COMPOSITIONS ET PROCEDES COMPRENANT DES PLANTES PRESENTANT DES ACTIVITES DE LIPOXYGENASE ET/OU DE DESATURASE REDUITES**
[72] BEGEMANN, MATTHEW, US
[72] JANUARY, EMMA, US
[72] ZESS, ERIN, US
[71] BENSON HILL, INC., US
[85] 2024-03-20
[86] 2022-09-21 (PCT/IB2022/058936)
[87] (WO2023/047310)
[30] US (63/246,356) 2021-09-21
[30] US (63/305,131) 2022-01-31
[30] US (63/327,077) 2022-04-04

[21] **3,233,105**
[13] A1
[51] **Int.Cl. C10L 1/10 (2006.01) C10L 10/02 (2006.01) C10L 10/04 (2006.01) C10L 1/183 (2006.01) C10L 1/198 (2006.01) C10L 1/222 (2006.01) C10L 1/2387 (2006.01)**
[25] EN
[54] **FUEL ADDITIVES FOR LOWERING DEPOSIT AND PARTICULATE EMISSION**
[54] **ADDITIFS DE CARBURANT POUR ABAISSER LE DEPOT ET L'EMISSION DE PARTICULES**
[72] KUO, CHUNG-HAO, US
[72] SMOCHA, RUTH, US
[72] OHTA, SATOSHI, JP
[72] SIMPSON-GREEN, FELICIA F., US
[72] KATOH, YUUKI, JP
[72] SHIH, JIUN-LE, US
[72] LOEPER, PAUL, US
[71] CHEVRON ORONITE COMPANY LLC, US
[71] CHEVRON JAPAN LTD., JP
[71] CHEVRON U.S.A. INC., US
[85] 2024-03-20
[86] 2022-10-06 (PCT/IB2022/059541)
[87] (WO2023/057943)
[30] US (63/252,952) 2021-10-06

[21] **3,233,106**
[13] A1
[51] **Int.Cl. A61K 8/24 (2006.01) A61K 8/25 (2006.01) A61K 8/27 (2006.01) A61K 8/29 (2006.01) A61K 8/36 (2006.01) A61K 8/365 (2006.01) A61K 8/55 (2006.01) A61K 8/73 (2006.01) A61Q 11/00 (2006.01) A61Q 11/02 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING DICARBOXYLIC ACID**
[54] **COMPOSITIONS DE SOIN BUCCAL COMPRENANT DE L'ACIDE DICARBOXYLIQUE**
[72] GROTH, ANDREW, FREDERIC, US
[72] SAGEL, PAUL, ALBERT, US
[72] ST. JOHN, SAMUEL, JAMES, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-22
[86] 2022-11-02 (PCT/US2022/079105)
[87] (WO2023/081673)
[30] US (63/275,500) 2021-11-04

[21] **3,233,107**
[13] A1
[51] **Int.Cl. A61K 31/135 (2006.01) A61P 25/24 (2006.01)**
[25] EN
[54] **2-FLUORODESCHLOROKETAMINE FOR TREATMENT OF DEPRESSION, INCLUDING TREATMENT-RESISTANT DEPRESSION**
[54] **2-FLUORODESCHLOROKETAMINE POUR LE TRAITEMENT DE LA DEPRESSION, Y COMPRIS LA DEPRESSION RESISTANTE AU TRAITEMENT**
[72] GOLAN, EZEKIEL, CA
[71] CLEARMIND MEDICINE INC., IL
[85] 2024-03-20
[86] 2022-10-18 (PCT/IB2022/060011)
[87] (WO2023/067505)
[30] US (63/256,728) 2021-10-18

[21] **3,233,108**
[13] A1
[51] **Int.Cl. B60L 53/14 (2019.01) B60L 53/16 (2019.01) B60L 53/31 (2019.01) B60L 53/35 (2019.01) H02G 9/04 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE CHARGING SYSTEM AND ARRANGEMENT**
[54] **SYSTEME ET AGENCEMENT DE RECHARGE DE VEHICULE ELECTRIQUE**
[72] SHAIKH, HAROON, GB
[71] REEHANA LIMITED, GB
[85] 2024-03-26
[86] 2022-10-03 (PCT/GB2022/052497)
[87] (WO2023/052794)
[30] GB (2114123.9) 2021-10-01

[21] **3,233,110**
[13] A1
[51] **Int.Cl. F41H 3/00 (2006.01) H01Q 17/00 (2006.01)**
[25] EN
[54] **A PRODUCT AND METHOD FOR FREQUENCY SELECTIVE CAMOUFLAGE MATERIAL**
[54] **PRODUIT ET PROCEDE POUR MATERIAU DE CAMOUFLAGE SELECTIF EN FREQUENCE**
[72] JERSBLAD, JOHAN, SE
[71] SAAB AB, SE
[85] 2024-03-26
[86] 2022-10-12 (PCT/SE2022/050924)
[87] (WO2023/068984)
[30] SE (2100152-4) 2021-10-18

[21] **3,233,111**
[13] A1
[51] **Int.Cl. A45D 20/12 (2006.01) A45D 20/10 (2006.01) A45D 2/00 (2006.01) A45D 6/00 (2006.01) A45D 20/00 (2006.01) A45D 20/04 (2006.01) A45D 20/08 (2006.01) A45D 20/50 (2006.01)**
[25] EN
[54] **HAIR DIFFUSER**
[54] **DIFFUSEUR POUR CHEVEUX**
[72] CARLUCCI, VITO JAMES, US
[72] DA COSTA, SERGIO LOPES FERNANDES, US
[71] CONAIR LLC, US
[85] 2024-03-21
[86] 2022-08-23 (PCT/US2022/041185)
[87] (WO2023/048877)
[30] US (17/483,282) 2021-09-23

[21] **3,233,112**
[13] A1
[51] **Int.Cl. A63B 69/06 (2006.01) B63B 34/20 (2020.01) B63B 79/10 (2020.01) B63H 16/00 (2006.01) G01D 21/02 (2006.01) B63B 34/30 (2020.01) B63H 16/06 (2006.01)**
[25] EN
[54] **ROWING PERFORMANCE OPTIMIZATION SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES D'OPTIMISATION DE PERFORMANCE D'AVIRON**
[72] LEE, THOMAS HO, US
[72] CABANAS, MANUEL, US
[72] GREENBERG, HAYLEY BETH, US
[72] CABANAS, JORDI LUIS, US
[71] X BOAT LLC, US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/044949)
[87] (WO2023/049531)
[30] US (63/248,842) 2021-09-27

[21] **3,233,113**
[13] A1
[51] **Int.Cl. C07H 19/06 (2006.01) A61K 31/7072 (2006.01)**
[25] EN
[54] **2'-ALKYL OR 3'-ALKYL MODIFIED RIBOSE DERIVATIVES FOR USE IN THE IN-VIVO DELIVERY OF OLIGONUCLEOTIDES**
[54] **DERIVES DE RIBOSE MODIFIES PAR 2'-ALKYLE OU 3'-ALKYLE DESTINES A ETRE UTILISES DANS L'ADMINISTRATION IN VIVO D'OLIGONUCLEOTIDES**
[72] WANG, WEIMIN, US
[72] CAI, XIAOCHUAN, US
[71] SANEGENE BIO USA INC., US
[85] 2024-03-21
[86] 2022-09-22 (PCT/US2022/044377)
[87] (WO2023/049258)
[30] US (63/246,870) 2021-09-22

[21] **3,233,114**
[13] A1
[51] **Int.Cl. A46B 15/00 (2006.01) A47J 37/07 (2006.01) A46B 5/02 (2006.01) A46B 17/08 (2006.01) A47L 13/34 (2006.01)**
[25] EN
[54] **BARBECUE GRILL BRUSH**
[54] **BROSSE POUR GRILLE DE BARBECUE**
[72] KRAUSE, AARON C., US
[72] O'BRIEN, JOHN, US
[72] TITOVS, ALEKSANDRS, US
[71] SCRUB DADDY, INC., US
[85] 2024-03-26
[86] 2023-02-09 (PCT/US2023/012662)
[87] (WO2023/158585)
[30] US (63/310,220) 2022-02-15

[21] **3,233,115**
[13] A1
[51] **Int.Cl. H04H 60/07 (2009.01) H04H 20/12 (2009.01) H04H 20/22 (2009.01)**
[25] EN
[54] **METHOD FOR TIME ALIGNING IN-BAND ON-CHANNEL DIGITAL RADIO AUDIO WITH FM RADIO AUDIO WITH FM RADIO**
[54] **PROCEDE D'ALIGNEMENT TEMPOREL D'AUDIO DE RADIO NUMERIQUE EN BANDE SUR CANAL AVEC AUDIO DE RADIO FM**
[72] SNELLING, WILLIAM, US
[72] IANNUZZELLI, RUSSELL, US
[72] PEYLA, PAUL J., US
[72] BAIRD, JEFFREY, US
[71] IBIQUITY DIGITAL CORPORATION, US
[85] 2024-03-21
[86] 2022-10-28 (PCT/US2022/048177)
[87] (WO2023/076566)
[30] US (63/273,763) 2021-10-29

[21] **3,233,116**
[13] A1
[51] **Int.Cl. F04B 9/117 (2006.01) F15B 1/04 (2006.01)**
[25] EN
[54] **HYDRAULIC POWER BOOSTING SYSTEM**
[54] **SYSTEME AMPLIFICATEUR DE PUISSANCE HYDRAULIQUE**
[72] OLVERA ALVAREZ, BERNADETTE, MX
[71] OLVERA ALVAREZ, BERNADETTE, MX
[85] 2024-03-26
[86] 2022-04-13 (PCT/MX2022/050036)
[87] (WO2023/080771)
[30] MX (MX/A/2021/013474) 2021-11-03

[21] **3,233,117**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G16H 20/00 (2018.01) G16H 40/60 (2018.01) A61B 5/369 (2021.01) A61B 5/378 (2021.01) A61B 5/38 (2021.01) A61B 5/398 (2021.01) A61B 5/024 (2006.01) A61B 5/05 (2021.01) A61B 5/055 (2006.01) A61B 5/16 (2006.01) A61N 5/06 (2006.01) G06F 3/01 (2006.01)**
[25] EN
[54] **ENTERTAINMENT DEVICE FOR PROMOTING GAMMA OSCILLATIONS**
[54] **DISPOSITIF DE DIVERTISSEMENT POUR FAVORISER LES OSCILLATIONS GAMMA**
[72] MALCHANO, ZACHARY, US
[72] VAUGHAN, BRENT, US
[72] WILLIAMS, MARTIN, US
[72] HAJOS, MIHALY, US
[72] BOYDEN, EDWARD, US
[72] CIMENSER, AYLIN, US
[72] DA, XIAO, US
[71] COGNITO THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/044755)
[87] (WO2023/049467)
[30] US (63/248,883) 2021-09-27

[21] **3,233,118**
[13] A1
[51] **Int.Cl. G16H 30/40 (2018.01) G06T 7/70 (2017.01) G06V 30/14 (2022.01)**
[25] EN
[54] **ANATOMICAL SCANNING, TARGETING, AND VISUALIZATION**
[54] **BALAYAGE, CIBLAGE ET VISUALISATION ANATOMIQUES**
[72] DUGGAL, NEIL, CA
[72] WANG, HAO, US
[71] IMIRGE MEDICAL INC., CA
[71] WANG, HAO, US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/044945)
[87] (WO2023/049528)
[30] US (63/248,732) 2021-09-27

---

[21] **3,233,119**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2023.01)**
[25] EN
[54] **KEYED EVENT QUEUE**
[54] **FILE D'ATTENTE D'EVENEMENTS A CLE**
[72] ROHDE, HENNING KORSHOLM, US
[72] SRINIVASAN, ARAVIND VELAMUR, US
[72] ELSAYED, YASSER, US
[72] RONDEAU, PAUL, CA
[72] RANEY, KRISTOPHER, US
[71] CITY STORAGE SYSTEMS LLC, US
[85] 2024-03-26
[86] 2022-09-12 (PCT/US2022/043197)
[87] (WO2023/048975)
[30] US (17/485,981) 2021-09-27

---

[21] **3,233,120**
[13] A1
[51] **Int.Cl. B29C 31/08 (2006.01) B29D 99/00 (2010.01) B29C 70/38 (2006.01) B29C 70/56 (2006.01)**
[25] EN
[54] **A MOULDING ASSEMBLY FOR MANUFACTURING A SHELL PART OF A WIND TURBINE BLADE**
[54] **ENSEMBLE DE MOULAGE POUR FABRIQUER UNE PARTIE COQUE D'UNE PALE D'EOLIENNE**
[72] MADSEN, KRISTIAN LEHMANN, DK
[72] BRANDT, FREDERIK, DK
[71] LM WIND POWER A/S, DK
[85] 2024-03-26
[86] 2022-09-16 (PCT/EP2022/075809)
[87] (WO2023/052152)
[30] EP (21199497.5) 2021-09-28

---

[21] **3,233,121**
[13] A1
[51] **Int.Cl. B23K 31/12 (2006.01) B23K 9/095 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING WELD COOLING RATE IN-SITU**
[54] **SYSTEME ET PROCEDE POUR DETERMINER UNE VITESSE DE REFROIDISSEMENT DE SOUDURE IN SITU**
[72] REICHERT LAMORTE, CONSTANCE T., US
[72] MCGAUGHY, TOM, US
[71] EDISON WELDING INSTITUTE, INC., US
[85] 2024-03-21
[86] 2022-09-21 (PCT/US2022/044198)
[87] (WO2023/049148)
[30] US (17/480,403) 2021-09-21

---

[21] **3,233,122**
[13] A1
[51] **Int.Cl. A01N 25/10 (2006.01) A01N 25/32 (2006.01) A01N 61/00 (2006.01)**
[25] EN
[54] **WEED SEED GERMINATION INHIBITOR**
[54] **INHIBITEUR DE LA GERMINATION DES GRAINES DE MAUVAISES HERBES**
[72] WARD, PAULA M., US
[71] BETA BIOFUEL SOLUTIONS, LLC, US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/077115)
[87] (WO2023/049938)
[30] US (63/248,774) 2021-09-27

---

[21] **3,233,123**
[13] A1
[51] **Int.Cl. F16L 37/10 (2006.01) F16L 23/22 (2006.01)**
[25] EN
[54] **SIDE WALL SEAL FOR PIPING**
[54] **JOINT DE PAROI LATERALE POUR TUYAUTERIE**
[72] KING, JR. JACK F., US
[71] ROOF GOOSE VENT LLC, US
[85] 2024-03-26
[86] 2022-09-28 (PCT/US2022/045049)
[87] (WO2023/055809)
[30] US (63/250,628) 2021-09-30

---

[21] **3,233,124**
[13] A1
[51] **Int.Cl. C10L 1/08 (2006.01) C10B 53/02 (2006.01) C10B 57/12 (2006.01) C10G 1/06 (2006.01) C10G 3/00 (2006.01) C10L 1/02 (2006.01)**
[25] EN
[54] **BIOFUEL BLENDS**
[54] **MELANGES DE BIOCARBURANTS**
[72] VAN DIJK, NICOLAAS, NL
[72] BALAM, HARISH KUMAR, IN
[72] POPE, MICHAEL RICHARD, GB
[72] SHIOSAKI, DANIEL THOMAS, US
[72] CAIAZZO, ALDO, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-03-21
[86] 2022-10-20 (PCT/US2022/078419)
[87] (WO2023/070024)
[30] US (63/257,735) 2021-10-20

[21] **3,233,125**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2023.01)**
[25] EN
[54] **DELIVERY VEHICLE SELECTION BASED ON LOCATION DATA AND MEMORY RESOURCE CONTENT**
[54] **SELECTION DE VEHICULE DE LIVRAISON SUR LA BASE DE DONNEES DE LOCALISATION ET DE CONTENU DE RESSOURCE DE MEMOIRE**
[72] ROMANIUK, MICHAEL JOHN CHRISTOPHER, US
[72] PAWAR, SUMESH SINGH, US
[72] BATHER RAMIREZ, LILY VICTORIA, US
[72] BISHT, REKHA, US
[72] CHEMBOON RAMACHARI, MURALI, US
[72] GANTA, VIKRAM SIMHA REDDY, US
[72] BAIANI, YAQUB AHMAD, US
[72] FALLAH, SHADI, US
[72] VENUGOPALAN, SUDHA, US
[72] HARDGROVE, DAYNA LEANNE, US
[72] NAIR, ANUSH NARAYANAN, US
[72] JONES, YUKIKO YAMADA, US
[72] KANNAN, ABHILASH, US
[72] JAYARAMEGOWDA, RAGHAVENDRA, US
[72] AUNG, LWIN MOE, US
[71] 7-ELEVEN, INC., US
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/076992)
[87] (WO2023/049882)
[30] US (17/448,944) 2021-09-27
[30] US (17/448,977) 2021-09-27
[30] US (17/448,999) 2021-09-27
[30] US (17/449,024) 2021-09-27
[30] US (17/449,057) 2021-09-27
[30] US (17/449,066) 2021-09-27

[21] **3,233,126**
[13] A1
[51] **Int.Cl. A47L 1/02 (2006.01) A47L 11/00 (2006.01) B08B 3/02 (2006.01) E04G 23/00 (2006.01)**
[25] EN
[54] **CLEANING SYSTEM FOR AN EXTERNAL SURFACE OF A BUILDING**
[54] **SYSTEME DE NETTOYAGE DE SURFACE EXTERNE D'UN BATIMENT**
[72] LEPOVIC, MARKO, IT
[71] LEPOVIC, MARKO, IT
[71] ROSSETTINI, LUCA, IT
[85] 2024-03-22
[86] 2021-09-24 (PCT/EP2021/076407)
[87] (WO2023/046297)

[21] **3,233,127**
[13] A1
[51] **Int.Cl. G01K 1/02 (2021.01) G01K 1/08 (2021.01) G01K 1/14 (2021.01) G01K 7/02 (2021.01)**
[25] EN
[54] **SYSTEMS OR DEVICES AND METHODS FOR MANAGING THERMOCOUPLE SERVICE LIFE**
[54] **SYSTEMES OU DISPOSITIFS ET PROCEDES DE GESTION DE DUREE DE VIE DE THERMOCOUPLE**
[72] YOUEL, NATHAN, US
[72] GROSSI, JOHN JUSTIN, US
[72] WASSEL, AHMAD, US
[71] BASF CORPORATION, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/076995)
[87] (WO2023/049883)
[30] US (63/261,683) 2021-09-27

[21] **3,233,128**
[13] A1
[51] **Int.Cl. B09C 1/06 (2006.01) E02D 3/11 (2006.01) E21B 36/04 (2006.01)**
[25] EN
[54] **LOW TEMPERATURE THERMAL TREATMENT**
[54] **TRAITEMENT THERMIQUE A BASSE TEMPERATURE**
[72] GALLIGAN JR., JAMES P., US
[72] LACHANCE, JOHN C., US
[72] NIELSEN, STEFFEN GRIEPKE DAM, US
[72] EASTER, HILLARY DANIELLE, US
[71] LACHANCE, JOHN C., US
[85] 2024-03-26
[86] 2022-10-06 (PCT/US2022/077709)
[87] (WO2023/060204)
[30] US (63/262,167) 2021-10-06

[21] **3,233,129**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) B01J 8/00 (2006.01) C25B 15/08 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING AN ELECTROLYSIS SYSTEM, RECOMBINER, AND USE OF A RECOMBINER IN AN ELECTROLYSIS SYSTEM**
[54] **PROCEDE DE FONCTIONNEMENT D'UN SYSTEME D'ELECTROLYSE, RECOMBINEUR ET UTILISATION D'UN RECOMBINEUR DANS UN SYSTEME D'ELECTROLYSE**
[72] WOLF, ERIK, DE
[72] HANEBUTH, MARC, DE
[72] TREMEL, ALEXANDER, DE
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2024-03-22
[86] 2022-08-05 (PCT/EP2022/072083)
[87] (WO2023/046350)
[30] EP (21199190.6) 2021-09-27

[21] **3,233,130**
[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01)**
[25] EN
[54] **OIL-IN-WATER EMULSION FOR INHALATION ADMINISTRATION COMPRISING CANNABIDIOL (CBD)**
[54] **EMULSION HUILE DANS L'EAU POUR ADMINISTRATION PAR INHALATION COMPRENANT DU CANNABIDIOL (CBD)**
[72] CHILDERHOUSE, NICHOLAS DEAN, GB
[72] FORBES, NEIL LIAM ANDREW, GB
[72] SELLART, MIREIA PUIG, GB
[72] BLEACKLEY, MARK ROBERT, AU
[71] INCANNEX HEALTHCARE LIMITED, AU
[85] 2024-03-26
[86] 2022-10-07 (PCT/AU2022/051200)
[87] (WO2023/056520)
[30] AU (2021903210) 2021-10-07

[21] **3,233,131**
[13] A1
[51] **Int.Cl. A61K 31/498 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) C07D 405/14 (2006.01)**
[25] EN
[54] **CERTAIN 2,5-DIAZABICYCLO[4.2.0]OCTANES AS GLP-1 RECEPTOR MODULATORS**
[54] **CERTAINS 2,5-DIAZABICYCLO[4.2.0]OCTANES UTILISES EN TANT QUE MODULATEURS DU RECEPTEUR GLP-1**
[72] POLLA, MAGNUS, SE
[72] BERGMAN, JOAKIM, SE
[72] SUNDELL, JOHAN, SE
[72] BRANALT, JONAS, SE
[72] RATKOVA, EKATERINA, SE
[72] KAJANUS, JOHAN, SE
[72] JOHANSSON, MAGNUS, SE
[71] ASTRAZENECA AB, SE
[85] 2024-03-22
[86] 2022-10-04 (PCT/EP2022/077530)
[87] (WO2023/057427)
[30] US (63/262,105) 2021-10-05
[30] US (63/264,441) 2021-11-23

[21] **3,233,134**
[13] A1
[51] **Int.Cl. F24V 30/00 (2018.01) H05B 3/02 (2006.01)**
[25] EN
[54] **HEAT GENERATION DEVICE**
[54] **DISPOSITIF DE GENERATION DE CHALEUR**
[72] SATO, RYOKI, JP
[72] IWAMURA, YASUHIRO, JP
[72] ITO, TAKEHIKO, JP
[72] YOSHINO, HIDEKI, JP
[71] CLEAN PLANET INC., JP
[85] 2024-03-26
[86] 2022-09-16 (PCT/JP2022/034839)
[87] (WO2023/058441)
[30] JP (2021-163715) 2021-10-04

[21] **3,233,135**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) A61K 38/48 (2006.01) A61P 7/02 (2006.01) C12N 9/74 (2006.01)**
[25] EN
[54] **PEPTIDES WITH MULTIVALENT EFFECTS**
[54] **PEPTIDES A EFFETS MULTIVALENTS**
[72] SCHMIDTCHEN, ARTUR, SE
[72] PETRUK, GANNA, SE
[71] IN2CURE AB, SE
[85] 2024-03-26
[86] 2022-10-21 (PCT/EP2022/079429)
[87] (WO2023/067167)
[30] EP (21204274.1) 2021-10-22

[21] **3,233,138**
[13] A1
[51] **Int.Cl. G01N 33/574 (2006.01)**
[25] EN
[54] **LUNG CANCER PREDICTION AND USES THEREOF**
[54] **PREDICTION DU CANCER DU POUMON ET UTILISATIONS ASSOCIEES**
[72] ALEXANDER, LEIGH, US
[72] PATERSON, CLARE, US
[72] OSTROFF, RACHEL M., US
[72] HAGAR, YOLANDA, US
[72] KURESHI, NATASHA, US
[71] SOMALOGIC OPERATING CO., INC., US
[85] 2024-03-26
[86] 2022-10-07 (PCT/US2022/045989)
[87] (WO2023/059854)
[30] US (63/253,509) 2021-10-07

[21] **3,233,139**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/16 (2006.01) A61K 31/436 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATION COMPRISING TACROLIMUS, METHOD FOR THE PREPARATION THEREOF AND USE**
[54] **FORMULATION PHARMACEUTIQUE COMPRENANT DU TACROLIMUS, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] KARAVAS, EVANGELOS, GR
[72] KOUTRIS, EFTHYMIOS, GR
[72] KALANTZI, LIDA, GR
[72] CHATIDOU, SOTIRIA, GR
[72] LEMONAKIS, NIKOS, GR
[72] PAPADAKI, ANNA, GR
[72] BRIEUDES, VINCENT, GR
[72] KALEZI, ARTEMIS, GR
[72] KATSENIS, ATHANASIOS, GR
[72] KOTTI, KATERINA, GR
[71] PHARMATHEN S.A., GR
[85] 2024-03-26
[86] 2022-09-27 (PCT/EP2022/025445)
[87] (WO2023/046321)
[30] GR (20210100639) 2021-09-27
[30] GB (2116138.5) 2021-11-10

[21] **3,233,140**
[13] A1
[51] **Int.Cl. C12N 5/0789 (2010.01) G16B 35/00 (2019.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C40B 50/06 (2006.01) G01N 33/50 (2006.01) A61K 35/12 (2015.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR USING INDIVIDUALIZED GENOME ASSEMBLIES AND INDUCED PLURIPOTENT STEM CELL LINES OF NONHUMAN PRIMATES FOR PRE-CLINICAL EVALUATION**
[54] **COMPOSITIONS ET PROCEDES D'UTILISATION D'ENSEMBLES GENOMIQUES ET DE LIGNEES DE CELLULES SOUCHES PLURIPOTENTES INDUITES INDIVIDUALISES DE PRIMATES NON HUMAINS POUR UNE EVALUATION PRECLINIQU**
[72] ROODGAR, MORTEZA, US
[71] EXIR, INC., US
[85] 2024-03-26
[86] 2022-10-20 (PCT/US2022/078407)
[87] (WO2023/070016)
[30] US (63/257,997) 2021-10-20

[21] **3,233,143**
[13] A1
[51] **Int.Cl. G21G 4/02 (2006.01) G01N 23/09 (2018.01)**
[25] EN
[54] **NEUTRON SOURCE WITH HEAVY WATER MODERATION AND APPLICATIONS TO THERMAL NEUTRON IMAGING**
[54] **SOURCE DE NEUTRONS A MODERATION D'EAU LOURDE ET APPLICATIONS POUR IMAGERIE PAR NEUTRONS THERMIQUES**
[72] DUARTE PINTO, SERGE, NL
[71] PHOTONIS FRANCE, FR
[85] 2024-03-26
[86] 2021-11-16 (PCT/EP2021/081894)
[87] (WO2023/088543)

[21] **3,233,144**
[13] A1
[51] **Int.Cl. G01V 1/46 (2006.01) G06N 20/00 (2019.01) E21B 47/12 (2012.01) G01V 1/28 (2006.01) G06F 11/22 (2006.01) G06F 11/263 (2006.01) G06N 3/04 (2023.01)**
[25] EN
[54] **AUTOMATIC SENSOR DATA VALIDATION ON A DRILLING RIG SITE**
[54] **VALIDATION AUTOMATIQUE DE DONNEES DE CAPTEUR SUR UN SITE D'INSTALLATION DE FORAGE**
[72] GUPTA, SOUMYA, US
[72] CHATAR, CRISPIN, US
[72] CELAYA GALVAN, JOSE R., US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-22
[86] 2022-09-21 (PCT/US2022/044176)
[87] (WO2023/049138)
[30] US (63/261,514) 2021-09-23

[21] **3,233,145**
[13] A1
[51] **Int.Cl. C02F 1/467 (2006.01)**
[25] EN
[54] **ENHANCED ELECTRO-OXIDATION SYSTEM**
[54] **SYSTEME D'ELECTRO-OXYDATION AMELIORE**
[72] CLARK, MARK, US
[72] KUMFER, BRYAN J., US
[72] FELCH, CHAD L., US
[71] LUMMUS TECHNOLOGY LLC, US
[85] 2024-03-26
[86] 2022-10-17 (PCT/US2022/046864)
[87] (WO2023/069350)
[30] US (63/270,220) 2021-10-21

[21] **3,233,146**
[13] A1
[51] **Int.Cl. B07C 5/04 (2006.01) B07C 5/36 (2006.01) G01N 15/02 (2024.01) G01N 21/64 (2006.01) G01N 21/95 (2006.01) G01N 29/44 (2006.01) G06N 3/08 (2023.01)**
[25] EN
[54] **MULTIPLE STAGE SORTING**
[54] **TRI A ETAGES MULTIPLES**
[72] KUMAR, NALIN, US
[72] GARCIA JR, MANUEL GERARDO, US
[71] SORTERA TECHNOLOGIES, INC., US
[85] 2024-03-26
[86] 2022-02-17 (PCT/US2022/016869)
[87] (WO2023/055418)
[30] US (17/491,415) 2021-09-30
[30] US (17/673,694) 2022-02-16

[21] **3,233,147**
[13] A1
[51] **Int.Cl. C01F 7/02 (2022.01) C01F 7/021 (2022.01) C01F 7/028 (2022.01) C01F 7/04 (2022.01)**
[25] EN
[54] **PROCESS FOR SELECTIVE CHLORINATION OF ALUMINOUS ORES FOR THE PREPARATION OF ALUMINUM**
[54] **PROCEDE DE CHLORATION SELECTIVE DE MINERAIS ALUMINEUX POUR PREPARATION D'ALUMINIUM**
[72] BRADFORD, DONALD RAY, US
[72] BOXALL, LARRY GEORGE, US
[72] TOTH, CHARLES ERNEST, US
[72] TOTH III, CHARLES ERNEST, US
[72] REILY, CAROLINE TOTH, US
[72] TOTH, CHARLES (DECEASED), US
[72] KNAPP, LESTER L. (DECEASED), US
[71] ALUMINUM TECHNOLOGIES, LLC, US
[85] 2024-03-22
[86] 2022-09-22 (PCT/US2022/044380)
[87] (WO2023/049261)
[30] US (63/248,024) 2021-09-24

[21] **3,233,148**
[13] A1
[51] **Int.Cl. H02G 3/06 (2006.01) H02G 3/10 (2006.01)**
[25] EN
[54] **NON-METALLIC CONDUIT HUBS**
[54] **RACCORDS DE CONDUITS NON METALLIQUES**
[72] WURMS, SCOTT B., US
[72] CRETELLA, JOSEPH, US
[71] HUBBELL INCORPORATED, US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/044874)
[87] (WO2023/049503)
[30] US (63/261,714) 2021-09-27

[21] **3,233,149**
[13] A1
[51] **Int.Cl. G08B 27/00 (2006.01) G06N 3/04 (2023.01) G08B 13/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING ASSISTANCE IN AN EMERGENCY**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR UNE ASSISTANCE DANS UNE SITUATION D'URGENCE**
[72] WHITAKER, NATHAN, US
[72] ROTH, MIKE, US
[72] WINKLER, ZACH, US
[72] PRITZEL, JOE, US
[71] NOONLIGHT, INC., US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/044551)
[87] (WO2023/049358)
[30] US (63/247,613) 2021-09-23

[21] **3,233,150**
[13] A1
[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 30/02 (2023.01) G06Q 50/10 (2012.01) G06F 16/901 (2019.01)**
[25] EN
[54] **SENSOR-CENTRIC DATASTORE FOR A CUSTOMER INFORMATION SYSTEM**
[54] **MEMOIRE DE DONNEES CENTREE SUR UN CAPTEUR POUR UN SYSTEME D'INFORMATIONS DE CLIENT**
[72] SHAHRAM, JAVEY, US
[72] RYMAN, ARTHUR G., CA
[72] BERGH, DOUGLAS, US
[71] BADGER METER, INC., US
[85] 2024-03-26
[86] 2022-10-10 (PCT/US2022/046154)
[87] (WO2023/064202)
[30] US (17499147) 2021-10-12

[21] **3,233,152**
[13] A1
[51] **Int.Cl. B64C 27/82 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING AT LEAST ONE ROTOR OF A FLIGHT VEHICLE, CONTROL DATA PROVISION UNIT FOR A FLIGHT VEHICLE AND A FLIGHT VEHICLE HAVING AT LEAST ONE ROTOR**
[54] **PROCEDE D'ACTIVATION D'AU MOINS UN ROTOR D'UN VEHICULE AERIEN, UNITE DE FOURNITURE DE DONNEES DE COMMANDE POUR UN VEHICULE AERIEN ET VEHICULE AERIEN DOTE D'AU MOINS UN ROTOR**
[72] STADLMAIR, NICOLAI, DE
[72] REDMANN, DANIEL, DE
[71] KOPTER GERMANY GMBH, DE
[85] 2024-03-26
[86] 2022-10-17 (PCT/EP2022/078850)
[87] (WO2023/104382)
[30] DE (10 2021 214 078.5) 2021-12-09

[21] **3,233,153**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/05 (2021.01) A61B 5/055 (2006.01) A61B 5/103 (2006.01) A61B 5/11 (2006.01) A61B 5/16 (2006.01) A61M 21/00 (2006.01) A61M 21/02 (2006.01) A61N 1/04 (2006.01) A61N 5/06 (2006.01) G06F 3/01 (2006.01)**
[25] EN
[54] **METHODS OF ENHANCING NEUROSTIMULATION DURING ACTIVITIES**
[54] **PROCEDES D'AMELIORATION DE LA NEUROSTIMULATION PENDANT DES ACTIVITES**
[72] MALCHANO, ZACHARY, US
[72] VAUGHAN, BRENT, US
[72] WILLIAMS, MARTIN, US
[72] HAJOS, MIHALY, US
[72] BOYDEN, EDWARD, US
[72] CIMENSER, AYLIN, US
[72] DA, XIAO, US
[71] COGNITO THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/044760)
[87] (WO2023/049470)
[30] US (63/248,880) 2021-09-27

[21] **3,233,154**
[13] A1
[51] **Int.Cl. B01D 53/78 (2006.01) B01D 53/62 (2006.01) B01D 53/79 (2006.01)**
[25] EN
[54] **SYSTEM FOR CARBON DIOXIDE CAPTURE**
[54] **SYSTEME DE CAPTURE DE DIOXYDE DE CARBONE**
[72] DI SANTO, SIMONE, SA
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/044552)
[87] (WO2023/049359)
[30] US (63/261,522) 2021-09-23

[21] **3,233,155**
[13] A1
[51] **Int.Cl. G01R 31/08 (2020.01) G05B 23/02 (2006.01) G06N 3/02 (2006.01)**
[25] EN
[54] **METHOD FOR MONITORING A MACHINE, COMPUTER PROGRAM PRODUCT AND ARRANGEMENT**
[54] **PROCEDE DE SURVEILLANCE D'UNE MACHINE, PRODUIT PROGRAMME D'ORDINATEUR ET DISPOSITIF**
[72] AL HAGE ALI, ALI, DE
[72] BOGLER, MARCO, DE
[72] WOLF POZZO, CHRISTIAN ANDREAS, DE
[71] SIEMENS AKTIENGESELLSCHAFT, DE
[85] 2024-03-26
[86] 2022-09-01 (PCT/EP2022/074341)
[87] (WO2023/052030)
[30] EP (21200255.4) 2021-09-30

[21] **3,233,156**
[13] A1
[51] **Int.Cl. A61B 10/02 (2006.01) A61B 1/303 (2006.01) A61B 17/42 (2006.01) A61M 29/00 (2006.01) A61B 10/00 (2006.01)**
[25] EN
[54] **CERVICAL INSPECTION DEVICE, METHODS OF CONTROL THEREOF, AND CERVICAL SAMPLING BRUSH**
[54] **DISPOSITIF D'INSPECTION CERVICALE, SES PROCEDES DE COMMANDE ET BROSSE D'ECHANTILLONNAGE CERVICAL**
[72] BEN-NATHAN, LOUSIE EMMA, GB
[72] BLONDECK, ALEX, GB
[72] BADHAM, GARY, GB
[72] HELMICH, MARK, GB
[71] LBN INNOVATIONS LTD, GB
[85] 2024-03-22
[86] 2022-10-06 (PCT/GB2022/052521)
[87] (WO2023/057755)
[30] GB (2114384.7) 2021-10-07

[21] **3,233,157**
[13] A1
[51] **Int.Cl. A61K 31/337 (2006.01) A61K 31/502 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPIES USING PRMT5 INHIBITORS FOR THE TREATMENT OF CANCER**
[54] **POLYTHERAPIES UTILISANT DES INHIBITEURS DE PRMT5 POUR LE TRAITEMENT DU CANCER**
[72] OLSON, PETER, US
[72] ENGSTROM, LARS DANIEL, US
[72] CHRISTENSEN, JAMES GAIL, US
[71] MIRATI THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-10-06 (PCT/US2022/045895)
[87] (WO2023/059795)
[30] US (63/252,995) 2021-10-06

[21] **3,233,158**
[13] A1
[51] **Int.Cl. H01M 8/18 (2006.01) H01M 10/44 (2006.01) H01M 8/0258 (2016.01)**
[25] EN
[54] **MEASURING ELECTRO-CHEMICAL PROPERTIES OF FLOWABLE MATERIALS**
[54] **MESURE DE PROPRIETES ELECTRO-CHIMIQUES DE MATERIAUX FLUIDES**
[72] SEGEL, REBECCA NICOLE, US
[72] WILMER, CHRISTOPHER ELI, US
[72] MCKONE, JAMES R., US
[71] UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[85] 2024-03-26
[86] 2022-11-10 (PCT/US2022/049518)
[87] (WO2023/086454)
[30] US (63/277,758) 2021-11-10

[21] **3,233,160**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/04 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **ENGINEERED NK CELLS AND USES THEREOF**
[54] **CELLULES NK MODIFIEES ET LEURS UTILISATIONS**
[72] COPIK, ALICJA J., US
[72] HASAN, MD FAQRUL, US
[72] CROOM-PEREZ, TAYLER, US
[71] UNIVERSITY OF CENTRAL FLORIDA RESEARCH FOUNDATION, INC., US
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/077244)
[87] (WO2023/056346)
[30] US (63/249,801) 2021-09-29

[21] **3,233,161**
[13] A1
[51] **Int.Cl. F16K 25/04 (2006.01) F16K 1/52 (2006.01) F16K 17/02 (2006.01) F16K 37/00 (2006.01) F16K 49/00 (2006.01)**
[25] EN
[54] **VALVE SYSTEM CONFIGURED TO PREVENT CORROSION AT PROCESS LIQUID/VAPOR INTERFACE**
[54] **SYSTEME DE VANNE CONCU POUR EMPECHER LA CORROSION AU NIVEAU D'UNE INTERFACE LIQUIDE DE TRAITEMENT/VAPEUR**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-22
[86] 2022-09-13 (PCT/US2022/043341)
[87] (WO2023/048990)
[30] US (17/485,666) 2021-09-27

[21] **3,233,162**
[13] A1
[51] **Int.Cl. H02S 40/34 (2014.01) H02B 1/46 (2006.01) H02S 20/23 (2014.01) H02S 40/30 (2014.01)**
[25] EN
[54] **MOUNTABLE ELECTRICAL ENCLOSURE WITH CONDUIT PASSTHROUGH**
[54] **ENCEINTE ELECTRIQUE POUVANT ETRE MONTEE AVEC PASSAGE TRAVERSANT POUR CONDUIT**
[72] MENTON, DUANE, US
[72] FALK, BRYAN, US
[72] ASH, JON, US
[72] SCHWARZ, YANN, US
[72] STARK, SUSAN, US
[71] ENSTALL US, INC., US
[85] 2024-03-26
[86] 2022-10-28 (PCT/US2022/048280)
[87] (WO2023/081075)
[30] US (17/517,181) 2021-11-02

[21] **3,233,163**
[13] A1
[51] **Int.Cl. F04D 25/00 (2006.01) F04D 25/08 (2006.01) F04D 27/00 (2006.01) F04D 29/00 (2006.01) F04D 29/32 (2006.01) F04D 29/52 (2006.01) F04D 29/54 (2006.01) F04D 29/66 (2006.01)**
[25] EN
[54] **PORTABLE FAN**
[54] **VENTILATEUR PORTABLE**
[72] ZHENG, GUANZHENG, CN
[72] XIE, JIAHANG, CN
[72] LI, XIANGFU, CN
[72] YUAN, SHUIYONG, CN
[72] XIAO, XIN, CN
[72] CAI, CHENGRUI, CN
[71] SHENZHEN JISU TECHNOLOGY CO., LTD., CN
[85] 2024-03-26
[86] 2022-09-26 (PCT/CN2022/121246)
[87] (WO2023/046145)
[30] CN (202122350626.3) 2021-09-27
[30] CN (202122980532.4) 2021-11-30
[30] CN (202122972162.X) 2021-11-30
[30] CN (202123124225.2) 2021-12-10
[30] CN (202221164340.4) 2022-05-16

[21] **3,233,166**
[13] A1
[51] **Int.Cl. C07D 403/04 (2006.01)**
[25] EN
[54] **METHODS FOR SEPARATION OF ENANTIOMERS**
[54] **PROCEDES DE SEPARATION D'ENANTIOMERES**
[72] ACHMATOWICZ, MICHAL, US
[72] KULYK, SVITLANA, US
[72] SNEAD, DAVID, US
[72] CHEN, CHENG, US
[72] MARX, MATTHEW, US
[72] SMITH, CHRISTOPHER, US
[71] MIRATI THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-10-06 (PCT/US2022/045898)
[87] (WO2023/059798)
[30] US (63/252,973) 2021-10-06
[30] US (63/352,504) 2022-06-15

[21] **3,233,167**
[13] A1
[51] **Int.Cl. E04F 13/14 (2006.01) E04F 13/08 (2006.01) E04F 15/02 (2006.01) E04F 15/08 (2006.01) E04F 15/10 (2006.01)**
[25] EN
[54] **DECORATIVE PANEL, METHOD OF PRODUCING SUCH A PANEL, AND A SURFACE COVERING WHICH IS CONSTRUCTED BY A MULTITUDE OF SUCH PANELS**
[54] **PANNEAU DECORATIF, PROCEDE DE FABRICATION D'UN TEL PANNEAU, ET REVETEMENT DE SURFACE CONSTRUIT AU MOYEN D'UNE MULTITUDE DE TELS PANNEAUX**
[72] BOUCKE, EDDY ALBERIC, BE
[71] I4F LICENSING NV, BE
[85] 2024-03-26
[86] 2022-09-29 (PCT/EP2022/077214)
[87] (WO2023/052559)
[30] NL (2029282) 2021-09-30

[21] **3,233,168**
[13] A1
[51] **Int.Cl. G01N 37/00 (2006.01) G01N 27/416 (2006.01) H01J 49/26 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR RAPID MASS SPECTROMETRIC CALIBRATION**
[54] **PROCEDE ET APPAREIL D'ETALONNAGE RAPIDE DE SPECTROMETRIE DE MASSE**
[72] OLESCHUK, RICHARD D., CA
[72] HERMANN, MATTHIAS, CA
[72] AGRAWAL, PRASHANT, CA
[71] QUEEN'S UNIVERSITY AT KINGSTON, CA
[85] 2024-03-26
[86] 2022-09-26 (PCT/CA2022/051422)
[87] (WO2023/044582)
[30] US (63/248,707) 2021-09-27

[21] **3,233,170**
[13] A1
[51] **Int.Cl. C07K 14/195 (2006.01) C07K 14/395 (2006.01) C12N 9/12 (2006.01) C12Q 1/6876 (2018.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **B-FAMILY DNA POLYMERASE VARIANT AND KIT COMPRISING THE SAME**
[54] **VARIANT D'ADN POLYMERASE DE LA FAMILLE B ET KIT LE COMPRENANT**
[72] CHENG, YI-WEN, TW
[72] CHEN, CHENG-YAO, TW
[72] HUNG, YU TING, TW
[72] CHEN, WEN-TING, TW
[71] CHEN, CHENG-YAO, TW
[85] 2024-03-26
[86] 2022-06-29 (PCT/US2022/073269)
[87] (WO2023/056113)
[30] US (63/249,813) 2021-09-29

[21] **3,233,173**
[13] A1
[51] **Int.Cl. C10G 11/18 (2006.01) B01J 38/02 (2006.01) C07C 5/32 (2006.01) C07C 5/333 (2006.01)**
[25] EN
[54] **METHODS FOR PROCESSING CHEMICALS**
[54] **PROCEDES DE TRAITEMENT DE PRODUITS CHIMIQUES**
[72] LUO, LIN, US
[72] WANG, HANGYAO, US
[72] LIU, YU, US
[72] PRETZ, MATTHEW T., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-03-26
[86] 2022-10-03 (PCT/US2022/077462)
[87] (WO2023/060037)
[30] US (63/251,873) 2021-10-04

[21] **3,233,174**
[13] A1
[51] **Int.Cl. G16H 20/30 (2018.01) G16H 30/40 (2018.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR RADIOABLATION TREATMENT AREA TARGETING AND GUIDANCE**
[54] **PROCEDES ET APPAREIL DE CIBLAGE ET DE GUIDAGE DE ZONE DE TRAITEMENT PAR RADIOABLATION**
[72] HONEGGER, JONAS, CH
[72] ATTANASI, FRANCESCA, CH
[72] JOHNSON, LEIGH, US
[72] MORGAN, ANDREA, US
[71] VARIAN MEDICAL SYSTEMS, INC., US
[85] 2024-03-26
[86] 2022-09-22 (PCT/US2022/076832)
[87] (WO2023/056204)
[30] US (63/250,501) 2021-09-30
[30] US (63/250,521) 2021-09-30

[21] **3,233,176**
[13] A1
[51] **Int.Cl. G06F 21/31 (2013.01)**
[25] EN
[54] **METHOD FOR PERFORMING AN AUTHENTICATION PROCESS BY AN INDIVIDUAL SYSTEM USER**
[54] **PROCEDE DE REALISATION D'UN PROCESSUS D'AUTHENTIFICATION PAR UN UTILISATEUR D'UN SYSTEME INDIVIDUEL**
[72] LEIBRECHT, UWE, DE
[72] WEBER-LEIBRECHT, KIRSTIN, DE
[71] LEIBRECHT, UWE, DE
[71] WEBER-LEIBRECHT, KIRSTIN, DE
[85] 2024-03-26
[86] 2022-08-11 (PCT/DE2022/100591)
[87] (WO2023/051859)
[30] DE (10 2021 125 572.4) 2021-10-01

[21] **3,233,178**
[13] A1
[51] **Int.Cl. A61K 31/551 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **MEDICAMENT COMPRISING A P2X4 RECEPTOR ANTAGONIST FOR PREVENTING OR TREATING NOCICEPTIVE PAIN AND/OR VISCERAL PAIN**
[54] **MEDICAMENT COMPRENANT UN ANTAGONISTE DU RECEPTEUR P2X4 POUR LA PREVENTION OU LE TRAITEMENT DE LA DOULEUR NOCICEPTIVE ET/OU DE LA DOULEUR VISCERALE**
[72] ANTONIOLI, LUCA, IT
[72] FORNAI, MATTEO, IT
[72] PELLEGRINI, CAROLINA, IT
[72] DI CESARE MANNELLI, LORENZO, IT
[72] GHELARDINI, CARLA, IT
[72] LUCARINI, ELENA, IT
[71] NIPPON CHEMIPHAR CO., LTD., JP
[85] 2024-03-26
[86] 2022-09-29 (PCT/EP2022/077138)
[87] (WO2023/052518)
[30] IT (102021000025124) 2021-09-30

[21] **3,233,181**
[13] A1
[51] **Int.Cl. A61B 10/00 (2006.01) A61F 5/44 (2006.01) A61G 9/00 (2006.01)**
[25] FR
[54] **DEVICE FOR COLLECTING LIQUIDS**
[54] **DISPOSITIF DE RECUEILLEMENT DE LIQUIDES**
[72] CAILLETEAU, BENOIT, CH
[71] SWISS SAFE COLLECT SA, CH
[85] 2024-03-26
[86] 2022-09-20 (PCT/EP2022/076126)
[87] (WO2023/052204)
[30] FR (FR2110230) 2021-09-28

[21] **3,233,182**
[13] A1
[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 33/245 (2019.01) A61K 31/704 (2006.01) A61K 31/7048 (2006.01) A61K 39/395 (2006.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **USES OF DLL3-TARGETING MULTISPECIFIC ANTIGEN-BINDING MOLECULES**
[54] **UTILISATIONS DE MOLECULES MULTISPECIFIQUES DE LIAISON A L'ANTIGENE CIBLANT LE DLL3**
[72] NAOI, SOTARO, JP
[72] FENG, SHU, SG
[72] IGAWA, TOMOYUKI, JP
[72] HO, SHU WEN SAMANTHA, SG
[72] MATSUDA, YUTAKA, JP
[72] MIKAMI, HIROFUMI, JP
[72] KAWAI, YUMIKO, JP
[72] TSUNENARI, TOSHIAKI, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2024-03-26
[86] 2022-09-28 (PCT/JP2022/036063)
[87] (WO2023/054423)
[30] JP (PCT/JP2021/035877) 2021-09-29

[21] **3,233,187**
[13] A1
[51] **Int.Cl. G06Q 10/04 (2023.01) G06Q 30/02 (2023.01) G06Q 40/08 (2012.01) G06Q 50/16 (2024.01) G06T 7/90 (2017.01)**
[25] EN
[54] **AERIAL AND/OR SATELLITE IMAGERY-BASED, OPTICAL SENSORY SYSTEM AND METHOD FOR QUANTITATIVE MEASUREMENTS AND RECOGNITION OF PROPERTY DAMAGE AFTER AN OCCURRED NATURAL CATASTROPHE EVENT**
[54] **SYSTEME SENSORIEL OPTIQUE BASE SUR UNE IMAGERIE AERIENNE ET/OU PAR SATELLITE ET PROCEDE DE MESURES QUANTITATIVES ET DE RECONNAISSANCE DE DOMMAGES AFFECTANT DES BIENS APRES UN EVENEMENT DE CATASTROPHE NATURELLE**
[72] SCHENKEL, DAVID, CH
[72] SRINIVASAN, VENKATESH, IN
[72] SAHA, SAMYADEEP, IN
[72] MISHRA, ABHISHEK, US
[71] SWISS REINSURANCE COMPANY LTD., CH
[85] 2024-03-26
[86] 2022-09-29 (PCT/EP2022/077235)
[87] (WO2023/052570)
[30] CH (CH070332/2021) 2021-09-29

[21] **3,233,188**
[13] A1
[51] **Int.Cl. B60C 23/04 (2006.01) B64F 5/60 (2017.01) B64C 25/36 (2006.01) G01K 1/02 (2021.01) G01K 3/06 (2006.01) G01L 11/00 (2006.01) G01L 17/00 (2006.01)**
[25] FR
[54] **METHOD AND SYSTEM FOR DETERMINING THE PRESSURE OF AN AIRCRAFT TYRE**
[54] **PROCEDE ET SYSTEME DE DETERMINATION DE LA PRESSION D'UN PNEUMATIQUE D'AERONEF**
[72] NEBA, ERIC CARIN, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[71] SAFRAN, FR
[71] SAFRAN ELECTRONICS & DEFENSE, FR
[71] SAFRAN LANDING SYSTEMS, FR
[85] 2024-03-26
[86] 2022-10-19 (PCT/EP2022/079115)
[87] (WO2023/067010)
[30] FR (FR2111157) 2021-10-21

[21] **3,233,190**
[13] A1
[51] **Int.Cl. B65B 21/24 (2006.01) B65D 71/42 (2006.01)**
[25] EN
[54] **PACKAGING SYSTEM**
[54] **SYSTEME D'EMBALLAGE**
[72] BONNAIN, JEAN-CHRISTOPHE, FR
[72] MERZEAU, JULIEN, FR
[72] ZACHERLE, MATTHEW E., US
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/045233)
[87] (WO2023/055936)
[30] US (63/250,821) 2021-09-30

[21] **3,233,191**
[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/34 (2006.01) C12N 15/52 (2006.01) C12N 15/54 (2006.01)**
[25] EN
[54] **NUCLEIC ACID POLYMERASE VARIANTS, KITS AND METHODS FOR TEMPLATE-INDEPENDENT RNA SYNTHESIS**
[54] **VARIANTS DE POLYMERASE D'ACIDE NUCLEIQUE, KITS ET PROCEDES POUR LA SYNTHESE D'ARN INDEPENDANTE DE LA MATRICE**
[72] CHENG, YI-WEN, TW
[72] CHEN, CHENG-YAO, TW
[72] HUNG, YU TING, TW
[72] CHEN, WEN-TING, TW
[71] CHEN, CHENG-YAO, TW
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/077242)
[87] (WO2023/056344)
[30] US (63/249,819) 2021-09-29

[21] **3,233,192**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **ANTI-LAG3 BISPECIFIC ANTIBODY, PHARMACEUTICAL COMPOSITION AND USE**
[54] **ANTICORPS BISPECIFIQUE ANTI-LAG3, COMPOSITION PHARMACEUTIQUE ET UTILISATION**
[72] ZHANG, PENG, CN
[72] LI, BAIYONG, CN
[72] XIA, YU, CN
[72] WANG, ZHONGMIN, CN
[71] AKESO HUIKE (SHANGHAI) CO. LTD., CN
[85] 2024-03-26
[86] 2022-09-29 (PCT/CN2022/122556)
[87] (WO2023/051683)
[30] CN (202111149114.9) 2021-09-29

[21] **3,233,194**
[13] A1
[51] **Int.Cl. A61K 31/5513 (2006.01) A61K 45/00 (2006.01) A61P 11/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **AGENT FOR PREVENTING OR TREATING RESPIRATORY DISEASE**
[54] **AGENT PROPHYLACTIQUE OU THERAPEUTIQUE POUR DES MALADIES RESPIRATOIRES**
[72] IMAI, TOSHIYASU, JP
[71] NIPPON CHEMIPHAR CO., LTD., JP
[85] 2024-03-26
[86] 2022-09-29 (PCT/JP2022/036415)
[87] (WO2023/054578)
[30] JP (2021-162383) 2021-09-30

[21] **3,233,195**
[13] A1
[51] **Int.Cl. A23L 33/135 (2016.01) A61K 35/744 (2015.01) A61K 35/745 (2015.01) A61K 35/747 (2015.01) C12N 1/20 (2006.01)**
[25] EN
[54] **NOVEL PROBIOTICS AND USE THEREOF**
[54] **NOUVEAUX PROBIOTIQUES ET UTILISATION ASSOCIEE**
[72] KIM, DONG-HYUN, KR
[71] PBL BIOLAB CO., LTD., KR
[71] NVP HEALTHCARE CO., LTD., KR
[85] 2024-03-26
[86] 2022-09-30 (PCT/KR2022/014798)
[87] (WO2023/055188)
[30] KR (10-2021-0130539) 2021-10-01

[21] **3,233,197**
[13] A1
[51] **Int.Cl. B62B 7/06 (2006.01) B62B 9/14 (2006.01) B62B 9/20 (2006.01)**
[25] EN
[54] **BABY CARRIAGE**
[54] **LANDAU**
[72] YUAN, JIALIANG, CN
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2024-03-26
[86] 2022-09-28 (PCT/EP2022/077014)
[87] (WO2023/052445)
[30] CN (202111143389.1) 2021-09-28

[21] **3,233,198**
[13] A1
[51] **Int.Cl. G16B 20/10 (2019.01)**
[25] EN
[54] **METHOD OF CHARACTERISING A DNA SAMPLE**
[54] **METHODE DE CARACTERISATON D'UN ECHANTILLON D'ADN**
[72] MACINTYRE, GEOFFREY JOHN, GB
[72] MARKOWETZ, FLORIAN, GB
[72] DREWS, RUBEN MATTHIAS, GB
[72] HERNANDO FUSTER, BARBARA, GB
[71] CAMBRIDGE ENTERPRISE LTD., GB
[71] FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO), ES
[85] 2024-03-26
[86] 2022-10-03 (PCT/EP2022/077473)
[87] (WO2023/057392)
[30] GB (2114203.9) 2021-10-04

[21] **3,233,199**
[13] A1
[51] **Int.Cl. C12P 7/04 (2006.01) C12P 7/06 (2006.01) C12P 7/16 (2006.01) C12P 7/52 (2006.01) C12P 7/54 (2006.01)**
[25] EN
[54] **A FERMENTATION MEDIUM COMPRISING SULPHUR**
[54] **MILIEU DE FERMENTATION COMPRENANT DU SOUFRE**
[72] HAAS, THOMAS, DE
[72] RICHTER, CHRISTIAN, DE
[72] DEMLER, MARTIN, DE
[72] BECK, SIMON, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2024-03-26
[86] 2022-09-28 (PCT/EP2022/076946)
[87] (WO2023/052402)
[30] EP (21200133.3) 2021-09-30

[21] **3,233,200**
[13] A1
[51] **Int.Cl. B66F 1/06 (2006.01) A01D 34/00 (2006.01) B66F 3/00 (2006.01) B66F 5/00 (2006.01) B66F 7/06 (2006.01) B66F 7/28 (2006.01) B66F 15/00 (2006.01)**
[25] EN
[54] **LIFTING DEVICE**
[54] **DISPOSITIF DE LEVAGE**
[72] HARDIN, KRIS, US
[72] HAFENDORFER, JAMES THOMAS, US
[71] JUNGLE JIM'S ACCESSORY PRODUCTS, INC., US
[85] 2024-03-26
[86] 2022-10-25 (PCT/US2022/047665)
[87] (WO2023/076223)
[30] US (17/509,166) 2021-10-25

[21] **3,233,201**
[13] A1
[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/4545 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **BENZIMIDAZOLE CARBOXYLIC ACIDS AS GLP-1R AGONISTS**
[54] **ACIDES BENZIMIDAZOLE CARBOXYLIQUES UTILISES EN TANT QU'AGONISTES DE GLP-1R**
[72] ROMERO, F. ANTHONY, US
[72] JONES, CHRISTOPHER T., US
[72] FENAUX, MARTIJN, US
[71] TERNS PHARMACEUTICALS, INC., US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/044915)
[87] (WO2023/049518)
[30] US (63/261,717) 2021-09-27

[21] **3,233,202**
[13] A1
[51] **Int.Cl. C12Q 1/6883 (2018.01)**
[25] EN
[54] **METHODS FOR DETERMINING RESPIRATORY INFECTION RISK**
[54] **PROCEDES POUR DETERMINER LE RISQUE DE CONTRACTER UNE INFECTION RESPIRATOIRE**
[72] BOSCO, ANTHONY, AU
[72] READ, JAMES, AU
[71] RESPIRADIGM PTY LTD, AU
[85] 2024-03-26
[86] 2022-10-26 (PCT/AU2022/051283)
[87] (WO2023/070153)
[30] AU (2021903424) 2021-10-26

[21] **3,233,205**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-LAG3 ANTIBODY, PHARMACEUTICAL COMPOSITION AND USE**
[54] **ANTICORPS ANTI-LAG3, COMPOSITION PHARMACEUTIQUE ET UTILISATION**
[72] XIA, YU, CN
[72] WANG, ZHONGMIN, CN
[72] ZHANG, PENG, CN
[72] LI, BAIYONG, CN
[71] AKESO BIOPHARMA, INC., CN
[85] 2024-03-26
[86] 2022-09-28 (PCT/CN2022/122185)
[87] (WO2023/051621)
[30] CN (202111149114.9) 2021-09-29

[21] **3,233,206**
[13] A1
[51] **Int.Cl. A61K 31/53 (2006.01) A61K 31/5355 (2006.01) A61K 31/5377 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION CONTAINING TRIAZINE DERIVATIVE**
[54] **COMPOSITION PHARMACEUTIQUE CONTENANT UN DERIVE DE TRIAZINE**
[72] TACHIBANA, YUKI, JP
[72] UEHARA, SHOTA, JP
[72] UNOH, YUTO, JP
[72] NAKAHARA, KENJI, JP
[72] TAODA, YOSHIYUKI, JP
[72] KASAMATSU, KOJI, JP
[72] YAMATSU, YUKIKO, JP
[72] ANDO, SHIGERU, JP
[72] FUKAO, KEITA, JP
[72] NOBORI, HARUAKI, JP
[72] KURODA, TAKAYUKI, JP
[72] TOBA, SHINSUKE, JP
[72] UEMURA, KENTARO, JP
[72] MARUYAMA, YUKI, JP
[72] SASAKI, MICHIHITO, JP
[72] SAWA, HIROFUMI, JP
[71] SHIONOGI & CO., LTD., JP
[71] NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, JP
[85] 2024-03-26
[86] 2022-09-27 (PCT/JP2022/035803)
[87] (WO2023/054292)
[30] JP (2021-157929) 2021-09-28
[30] JP (2021-171725) 2021-10-20
[30] JP (2022-000723) 2022-01-05
[30] JP (2022-015035) 2022-02-02
[30] JP (2022-131590) 2022-08-22

[21] **3,233,207**
[13] A1
[51] **Int.Cl. A63C 19/08 (2006.01) A63C 19/06 (2006.01) A63C 19/10 (2006.01) A63C 19/12 (2006.01) E04C 2/22 (2006.01)**
[25] EN
[54] **IMPACT-REDUCING DASHER BOARD ASSEMBLY**
[54] **ENSEMBLE PANNEAU DE PROTECTION REDUISANT LES IMPACTS**
[72] LORENZO, JIM, US
[72] MOORE, JACOB, CA
[72] BONDI, MARK, US
[72] IRVING, BRUCE W., CA
[72] RADEKE, BRANDON, US
[71] COVESTRO LLC., US
[71] ATHLETICA SPORTS SYSTEMS INC., CA
[71] PITTSBURGH PENGUINS LP, US
[85] 2024-03-26
[86] 2022-04-01 (PCT/US2022/023101)
[87] (WO2023/055431)
[30] US (17/488,227) 2021-09-28

[21] **3,233,208**
[13] A1
[51] **Int.Cl. D07B 1/06 (2006.01)**
[25] FR
[54] **REINFORCED PRODUCT WITH FIXED CABLE GEOMETRY, HAVING VERY STRONG BI-MODULUS BEHAVIOUR FOR THE DEFORMABILITY OF THE CABLE DURING OFF-ROAD USE**
[54] **PRODUIT RENFORCE A GEOMETRIE DE CABLE FIXE PRESENTANT UN COMPORTEMENT BIMODULE TRES FORT POUR LA DEFORMABILITE DU CABLE EN USAGE HORS LA ROUTE**
[72] PATAUT, GAEL, FR
[72] LAUBY, LUCAS, FR
[72] REIX, OLIVIER, FR
[72] NOEL, SEBASTIEN, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-03-26
[86] 2022-11-21 (PCT/FR2022/052135)
[87] (WO2023/094754)
[30] FR (FR2112516) 2021-11-25

[21] **3,233,209**
[13] A1
[51] **Int.Cl. A63B 67/04 (2006.01) A63C 19/08 (2006.01)**
[25] EN
[54] **PADDLESMASH OUTDOOR GAME**
[54] **JEU DE PLEIN AIR DE TYPE PADDLESMASH**
[72] BINGHAM, JOE, US
[71] GLACIER GAMES, LLC, US
[85] 2024-03-26
[86] 2022-09-13 (PCT/US2022/043306)
[87] (WO2023/055561)
[30] US (63/249,356) 2021-09-28

[21] **3,233,210**
[13] A1
[51] **Int.Cl. B65D 83/04 (2006.01) C12M 1/00 (2006.01)**
[25] EN
[54] **DEVICE OF DISTRIBUTION OF IMPREGNATED SUPPORTS AND ASSOCIATED METHOD**
[54] **DISPOSITIF DE DISTRIBUTION DE SUPPORTS IMPREGNES ET PROCEDE ASSOCIE**
[72] SAVARESE, MARIO, IT
[72] BALZANO, SALVATORE, IT
[72] NAVARRIA, LAURA, IT
[72] SCHINETTI, GUIDO, IT
[72] BONATTI, ANDREA, IT
[71] COPAN ITALIA S.P.A., IT
[85] 2024-03-26
[86] 2022-09-27 (PCT/IB2022/059193)
[87] (WO2023/053001)
[30] IT (102021000024839) 2021-09-28

[21] **3,233,211**
[13] A1
[51] **Int.Cl. B01J 8/18 (2006.01) B01J 8/38 (2006.01) C10G 11/18 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCING OLEFINS**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION D'OLEFINES**
[72] PRETZ, MATTHEW T., US
[72] SANDOVAL, FERMIN ALEJANDRO, US
[72] PUNGANUR, MOHAN V., US
[72] MCNEELEY, ADAM M., US
[72] KLOOS, JACOBUS, NL
[72] SAKHARE, ANIL V., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-03-26
[86] 2022-10-04 (PCT/US2022/077538)
[87] (WO2023/060085)
[30] US (63/252,212) 2021-10-05

[21] **3,233,212**
[13] A1
[51] **Int.Cl. C01B 32/50 (2017.01) C04B 28/02 (2006.01) C04B 22/10 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING SUPPLEMENTARY CEMENTITIOUS MATERIALS, AND SUPPLEMENTARY CEMENTITIOUS MATERIALS PREPARED THEREFROM**
[54] **PROCEDE DE PREPARATION DE MATERIAUX CIMENTAIRES SUPPLEMENTAIRES, ET MATERIAUX CIMENTAIRES SUPPLEMENTAIRES PREPARES A PARTIR DE CEUX-CI**
[72] ATAKAN, VAHIT, US
[72] DAVIDSON, MARIO JORGE, US
[72] SAHU, SADANANDA, US
[71] SOLIDIA TECHNOLOGIES, INC., US
[85] 2024-03-26
[86] 2022-10-06 (PCT/US2022/045862)
[87] (WO2023/059777)
[30] US (63/253,343) 2021-10-07

[21] **3,233,213**
[13] A1
[51] **Int.Cl. G01K 1/16 (2006.01) G01K 13/02 (2021.01)**
[25] EN
[54] **HEAT FLUX TEMPERATURE SENSOR PROBE FOR NON-INVASIVE PROCESS FLUID TEMPERATURE APPLICATIONS**
[54] **SONDE DE CAPTEUR DE TEMPERATURE DE FLUX DE CHALEUR POUR APPLICATIONS DE TEMPERATURE DE FLUIDE DE TRAITEMENT NON INVASIVES**
[72] REUVERS, JOHN L., US
[71] ROSEMOUNT INC, US
[85] 2024-03-26
[86] 2022-09-22 (PCT/US2022/044343)
[87] (WO2023/055640)
[30] US (17/490,467) 2021-09-30

[21] **3,233,215**
[13] A1
[51] **Int.Cl. H04W 72/04 (2023.01)**
[25] EN
[54] **METHOD AND DEVICE FOR SOLVING PUCCH TRANSMISSION AND DETERMINING PUCCH SLOT**
[54] **PROCEDE ET DISPOSITIF POUR RESOUDRE UNE TRANSMISSION DE PUCCH ET DETERMINER UN CRENEAU DE PUCCH**
[72] GOU, WEI, CN
[72] ZHANG, JUNFENG, CN
[72] HAN, XIANGHUI, CN
[72] KOU, SHUAIHUA, CN
[71] ZTE CORPORATION, CN
[85] 2024-03-26
[86] 2022-04-22 (PCT/CN2022/088623)
[87] (WO2023/201749)

[21] **3,233,216**
[13] A1
[51] **Int.Cl. E21D 21/00 (2006.01)**
[25] EN
[54] **ROCK BOLT**
[54] **BOULON D'ANCRAGE**
[72] RATAJ, MIETEK, AU
[72] DARLINGTON, BRADLEY, AU
[71] SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD, AU
[85] 2024-03-26
[86] 2022-10-27 (PCT/AU2022/051289)
[87] (WO2023/070155)
[30] EP (21205283.1) 2021-10-28

[21] **3,233,217**
[13] A1
[51] **Int.Cl. H01M 50/593 (2021.01) H01M 50/249 (2021.01) H01M 50/586 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY CELL, BATTERY PACK AND VEHICLE INCLUDING THE SAME, AND METHOD FOR MANUFACTURING THE SAME**
[54] **ELEMENT DE BATTERIE CYLINDRIQUE, BLOC-BATTERIE ET VEHICULE LE COMPRENANT, ET SON PROCEDE DE FABRICATION**
[72] JO, MIN-KI, KR
[72] KANG, BO-HYUN, KR
[72] KIM, DO-GYUN, KR
[72] CHOI, SU-JI, KR
[72] HWANGBO, KWANG-SU, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-26
[86] 2022-09-28 (PCT/KR2022/014595)
[87] (WO2023/055091)
[30] KR (10-2021-0130391) 2021-09-30
[30] KR (10-2022-0002904) 2022-01-07
[30] KR (10-2022-0089233) 2022-07-19

[21] **3,233,218**
[13] A1
[51] **Int.Cl. G07D 7/005 (2016.01) H04N 1/32 (2006.01)**
[25] EN
[54] **SECURITY SOLUTION WITH A DIGITAL IMAGE WITH INTEGRATED SECURITY FEATURE, AND IMAGE CONVERSION METHOD AND IMAGE CONVERSION DEVICE FOR THE PRODUCTION THEREOF**
[54] **SOLUTION DE SECURITE AVEC UNE IMAGE NUMERIQUE A CARACTERISTIQUE DE SECURITE INTEGREE, ET PROCEDE DE CONVERSION D'IMAGE ET DISPOSITIF DE CONVERSION D'IMAGE POUR LA PRODUCTION DE CELLE-CI**
[72] KUSIN, DIETER, DE
[72] EDERER, MARTIN, DE
[72] BRUNNER, ANTON, DE
[72] WANJEK, MICHAEL, DE
[72] STEMICK, JOHANNES, DE
[72] DIMPFL, MARTIN, DE
[71] MUHLBAUER ID SERVICES GMBH, DE
[85] 2024-03-26
[86] 2022-09-29 (PCT/EP2022/077099)
[87] (WO2023/052493)
[30] DE (10 2021 125 559.7) 2021-10-01

[21] **3,233,219**
[13] A1
[51] **Int.Cl. C02F 1/00 (2006.01) B01J 8/02 (2006.01) B08B 9/02 (2006.01) B08B 9/08 (2006.01) C02F 1/28 (2006.01) B01D 24/14 (2006.01)**
[25] EN
[54] **UNDERDRAIN FOR MEDIA VESSEL AND METHOD OF CLEANING**
[54] **DRAIN DE SORTIE POUR CUVE DE MILIEU ET PROCEDE DE NETTOYAGE**
[72] DOUPE, MICHAEL, CA
[71] BL TECHNOLOGIES INC., US
[85] 2024-03-26
[86] 2022-10-04 (PCT/US2022/045699)
[87] (WO2023/059659)
[30] US (63/253,863) 2021-10-08

[21] **3,233,220**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) A61P 19/08 (2006.01) A61P 19/10 (2006.01)**
[25] EN
[54] **METHODS OF USING ANTI-SCLEROSTIN ANTIBODIES IN TREATMENT OF OSTEOGENESIS IMPERFECTA**
[54] **METHODES D'UTILISATION D'ANTICORPS ANTI-SCLEROSTINE DANS LE TRAITEMENT DE L'OSTEOGENESE IMPARFAITE**
[72] MACKINNON, ALASTAIR, GB
[72] MISTRY, ARUN, GB
[72] KAKKIS, EMIL, US
[72] OMINSKY, MICHAEL S., US
[71] MEREO BIOPHARMA 3 LIMITED, GB
[71] ULTRAGENYX PHARMACEUTICAL INC., US
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/077259)
[87] (WO2023/056355)
[30] US (63/250,918) 2021-09-30
[30] US (63/374,982) 2022-09-08

[21] **3,233,221**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01)**
[25] EN
[54] **MESSAGE SCHEDULING FOR CRYPTOGRAPHIC HASHING**
[54] **ORDONNANCEMENT DE MESSAGES POUR HACHAGE CRYPTOGRAPHIQUE**
[72] NAIK, RAHUL, GB
[71] QUANTUM BLOCKCHAIN TECHNOLOGIES PLC, GB
[85] 2024-03-26
[86] 2022-09-28 (PCT/GB2022/052458)
[87] (WO2023/052762)
[30] GB (2113962.1) 2021-09-29

[21] **3,233,222**
[13] A1
[51] **Int.Cl. G06T 3/40 (2024.01)**
[25] EN
[54] **METHOD, APPARATUS AND DEVICE FOR PHOTOGRAMMETRY, AND STORAGE MEDIUM**
[54] **PROCEDE, APPAREIL ET DISPOSITIF DE PHOTOGRAMMETRIE ET SUPPORT DE STOCKAGE**
[72] LI, ZHOUQIANG, CN
[72] ZHAO, XIAOBO, CN
[72] XU, YUKAI, CN
[72] NIU, TAO, CN
[72] LI, RENJU, CN
[71] TIANYUAN 3D (TIANJIN) TECHNOLOGY CO., LTD., CN
[85] 2024-03-26
[86] 2022-09-27 (PCT/CN2022/121930)
[87] (WO2023/046211)
[30] CN (202111133068.3) 2021-09-27

[21] **3,233,223**
[13] A1
[51] **Int.Cl. B65H 5/02 (2006.01) H01M 4/139 (2010.01) H01M 10/0525 (2010.01) H01M 4/04 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR PRODUCING AN ELECTRODE**
[54] **DISPOSITIF ET PROCEDE DESTINES A LA FABRICATION D'UNE ELECTRODE**
[72] JANSEN, TOBIAS, DE
[71] VOLKSWAGEN AG, DE
[85] 2024-03-26
[86] 2022-09-30 (PCT/EP2022/077334)
[87] (WO2023/052613)
[30] DE (10 2021 211 096.7) 2021-10-01

[21] **3,233,224**
[13] A1
[51] **Int.Cl. C07K 14/46 (2006.01) C12N 9/10 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **CHIMERIC PROTEIN AND EXPRESSION SYSTEM**
[54] **PROTEINE CHIMERIQUE ET SYSTEME D'EXPRESSION**
[72] EGAN, RONAN, GB
[71] ENDOCRYNE LIMITED, GB
[85] 2024-03-26
[86] 2022-10-04 (PCT/GB2022/052514)
[87] (WO2023/057750)
[30] GB (2114216.1) 2021-10-04

[21] **3,233,225**
[13] A1
[51] **Int.Cl. B08B 9/093 (2006.01) B01J 8/02 (2006.01) B08B 9/02 (2006.01) B08B 9/08 (2006.01) C02F 1/00 (2006.01) C02F 1/28 (2006.01) B01D 24/14 (2006.01)**
[25] EN
[54] **CLEANING MECHANISM AND UNDERDRAIN FOR MEDIA VESSEL AND METHOD OF CLEANING**
[54] **MECANISME DE NETTOYAGE ET DRAIN SOUTERRAIN POUR CUVE DE MILIEUX ET PROCEDE DE NETTOYAGE**
[72] DOUPE, MICHAEL, CA
[72] VORA, NISHITH, US
[72] SCOTT, CHRIS, US
[71] BL TECHNOLOGIES INC., US
[85] 2024-03-26
[86] 2022-10-04 (PCT/US2022/045700)
[87] (WO2023/059660)
[30] US (63/253,863) 2021-10-08
[30] US (63/306,802) 2022-02-04

[21] **3,233,226**
[13] A1
[51] **Int.Cl. G06Q 10/02 (2012.01) H04W 4/021 (2018.01)**
[25] EN
[54] **INTEGRATED SYSTEMS AND METHODS FOR MANAGING BOOKING INFORMATION**
[54] **SYSTEMES ET PROCEDES INTEGRES POUR GERER DES INFORMATIONS DE RESERVATION**
[72] MENDELSON, AARON D., CA
[72] BLACK, DAVID A., CA
[72] DUNAWAY, ERIC, CA
[72] MCCALLUM, ZACHARY, CA
[71] WHITEWATER WEST INDUSTRIES LTD., CA
[85] 2024-03-26
[86] 2022-09-27 (PCT/CA2022/000050)
[87] (WO2023/044553)
[30] US (63/261,726) 2021-09-27

[21] **3,233,227**
[13] A1
[51] **Int.Cl. B67C 3/24 (2006.01) B01F 23/2361 (2022.01) B01F 23/237 (2022.01) B01F 35/42 (2022.01)**
[25] EN
[54] **RECEIVING DEVICE FOR RECEIVING A BOTTLE ON A CARBONATION MACHINE; CARBONATION MACHINE, AND METHOD FOR USING A CARBONATION MACHINE**
[54] **DISPOSITIF DE RECEPTION PERMETTANT DE RECEVOIR UNE BOUTEILLE SUR UNE MACHINE A GAZEIFIER, MACHINE A GAZEIFIER, ET PROCEDE D'UTILISATION D'UNE MACHINE A GAZEIFIER**
[72] EMPL, GUENTER, DE
[72] STALDER, STEFAN, CH
[71] SODAPOP GMBH, DE
[85] 2024-03-26
[86] 2022-09-28 (PCT/EP2022/077032)
[87] (WO2023/052460)
[30] DE (10 2021 211 109.2) 2021-10-01

[21] **3,233,228**
[13] A1
[51] **Int.Cl. B08B 9/093 (2006.01) B01J 8/02 (2006.01) B08B 9/02 (2006.01) B08B 9/08 (2006.01) C02F 1/00 (2006.01) C02F 1/28 (2006.01) B01D 24/14 (2006.01)**
[25] EN
[54] **UNDERDRAIN AND SEPTA FOR MEDIA VESSEL AND METHOD OF CLEANING**
[54] **DRAIN SOUTERRAIN ET CLOISONS POUR CUVE DE MILIEUX ET PROCEDE DE NETTOYAGE**
[72] DOUPE, MICHAEL, CA
[72] VORA, NISHITH, US
[71] BL TECHNOLOGIES INC., US
[85] 2024-03-26
[86] 2022-10-04 (PCT/US2022/045702)
[87] (WO2023/059661)
[30] US (63/253,863) 2021-10-08
[30] US (63/306,351) 2022-02-03

[21] **3,233,229**
[13] A1
[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/09 (2010.01) C12N 13/00 (2006.01)**
[25] EN
[54] **BIOASSEMBLY METHOD FOR SYNTHESIS USING MULTIWAVELENGTH FARADAY WAVES AND USE THEREOF**
[54] **PROCEDE D'ASSEMBLAGE BIOLOGIQUE POUR LA SYNTHESE DE MULTIPLES LONGUEURS D'ONDE DE FARADAY ET APPLICATION**
[72] CHEN, PU, CN
[72] GU, LONGJUN, CN
[72] ZHENG, LIXIN, CN
[72] WANG, HENG, CN
[72] ZHOU, JINSHENG, CN
[71] SHENZHEN CONVERGENCE BIO-MANUFACTURING CO., LTD, CN
[85] 2024-03-26
[86] 2022-07-14 (PCT/CN2022/105626)
[87] (WO2023/005676)
[30] CN (202110872667.0) 2021-07-30

[21] **3,233,230**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) A61P 27/02 (2006.01) C12N 15/64 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **SYNTHETIC PRODUCTION OF CIRCULAR DNA VECTORS**
[54] **PRODUCTION SYNTHETIQUE DE VECTEURS D'ADN CIRCULAIRES**
[72] HUH, JIN, US
[72] HIGHAM, EILEEN, US
[72] LORA, JOSE, US
[72] KENNEDY, JODI, US
[72] MAGUIRE, ANNE, US
[72] BAKHSHAYESH, MEISAM, US
[72] DORNBUSH, ELIZA, US
[71] INTERGALACTIC THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/077108)
[87] (WO2023/049937)
[30] US (63/248,801) 2021-09-27

[21] **3,233,231**
[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/416 (2006.01) A61K 31/435 (2006.01)**
[25] EN
[54] **IRHOM2 INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS D'IRHOM2 ET LEURS UTILISATIONS**
[72] BLOBEL, CARL P., US
[71] NEW YORK SOCIETY FOR THE RELIEF OF THE RUPTURED AND CRIPPLED, MAINTAI..., US
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/077271)
[87] (WO2023/056365)
[30] US (63/250,398) 2021-09-30

[21] **3,233,233**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61P 31/16 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **SUBSTITUTED 1H-PYRAZOLO [4,3-C] QUINOLINES, METHODS OF PREPARATION, AND USE THEREOF**
[54] **1H-PYRAZOLO[4,3-C]QUINOLEINES SUBSTITUEES, LEURS PROCEDES DE PREPARATION ET LEUR UTILISATION**
[72] ABAGYAN, RUBEN, US
[72] MITKIN, OLEG, RU
[72] PARCHINSKY, VLADISLAV ZENONOVICH, RU
[72] PUSHECHNIKOV, ALEXEI, US
[72] IVACHTCHENKO, ALEXANDRE VASILIEVICH, US
[72] SAVCHUK, NIKOLAY, US
[71] LOMOND THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-10-03 (PCT/US2022/045555)
[87] (WO2023/064133)
[30] US (63/256,260) 2021-10-15

[21] **3,233,234**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **DRUG FOR TREATING FATTY LIVER AND NONALCOHOLIC STEATOHEPATITIS**
[54] **MEDICAMENT THERAPEUTIQUE CONTRE LA STEATOSE HEPATIQUE ET LA STEATOHEPATITE NON ALCOOLIQUE**
[72] TAMAI, KATSUTO, JP
[72] SHIMBO, TAKASHI, JP
[72] TERAI, SHUJI, JP
[72] TSUCHIYA, ATSUNORI, JP
[72] YAMAZAKI, TAKEHIKO, JP
[71] OSAKA UNIVERSITY, JP
[71] NIIGATA UNIVERSITY, JP
[71] STEMRIM INC., JP
[85] 2024-03-26
[86] 2021-09-30 (PCT/JP2021/036238)
[87] (WO2023/053384)

[21] **3,233,235**
[13] A1
[51] **Int.Cl. A47B 95/00 (2006.01)**
[25] EN
[54] **ANTI-RELEASE WALL UNIT SUPPORT DEVICE**
[54] **DISPOSITIF DE SUPPORT D'UNITE MURALE ANTI-LIBERATION**
[72] FORMENTI, LEONARDO, IT
[71] FORMENTI & GIOVENZANA S.P.A., IT
[85] 2024-03-26
[86] 2022-10-10 (PCT/IB2022/059683)
[87] (WO2023/062501)
[30] EP (21202034.1) 2021-10-11
[30] IT (102021000026162) 2021-10-12

[21] **3,233,236**
[13] A1
[51] **Int.Cl. G01M 11/00 (2006.01)**
[25] FR
[54] **DEVICE AND METHOD FOR TRANSPORTING AND DIRECTLY MONITORING LIGHT BEAMS**
[54] **DISPOSITIF ET METHODE DE TRANSPORT ET DE CONTROLE EN DIRECT DE FAISCEAUX LUMINEUX**
[72] ANDRESEN, ESBEN RAVN, FR
[72] YAMMINE, JEAN, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE LILLE, FR
[85] 2024-03-21
[86] 2022-10-07 (PCT/FR2022/051897)
[87] (WO2023/057728)
[30] FR (FR2110638) 2021-10-07

[21] **3,233,238**
[13] A1
[51] **Int.Cl. H04N 17/00 (2006.01)**
[25] FR
[54] **INFRARED IMAGING DEVICE**
[54] **DISPOSITIF D'IMAGERIE INFRAROUGE**
[72] JOBERT, GABRIEL, FR
[72] BRENIERE, XAVIER, FR
[72] GORECKI, ALEXIA, FR
[72] BRUNNER, ALEXANDRE, FR
[71] LYNRED, FR
[85] 2024-03-20
[86] 2022-09-23 (PCT/EP2022/076509)
[87] (WO2023/046893)
[30] FR (FR2110092) 2021-09-24

[21] **3,233,239**
[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01) C12N 15/113 (2010.01) B82Y 5/00 (2011.01) A61K 9/107 (2006.01) A61K 38/00 (2006.01)**
[25] EN
[54] **HIGH-THROUGHPUT METHODS FOR PREPARING LIPID NANOPARTICLES AND USES THEREOF**
[54] **PROCEDES A HAUT RENDEMENT POUR LA PREPARATION DE NANOPARTICULES LIPIDIQUES ET LEURS UTILISATIONS**
[72] FAN, YUCHEN, US
[72] YEN, CHUN-WAN, US
[72] ZHANG, KE, US
[71] GENENTECH, INC., US
[85] 2024-03-22
[86] 2022-10-26 (PCT/US2022/078710)
[87] (WO2023/076945)
[30] US (63/272,136) 2021-10-26

[21] **3,233,240**
[13] A1
[51] **Int.Cl. H02J 7/00 (2006.01) H02J 50/00 (2016.01) E05B 47/00 (2006.01) H02J 7/32 (2006.01) H02J 7/35 (2006.01)**
[25] EN
[54] **DOOR ASSEMBLY HAVING RECHARGEABLE BATTERY, METHODS AND SYSTEM FOR CHARGING THE BATTERY**
[54] **ENSEMBLE PORTE AYANT UNE BATTERIE RECHARGEABLE, PROCEDES ET SYSTEME POUR CHARGER LA BATTERIE**
[72] BODURKA, ALEX, US
[71] MASONITE CORPORATION, US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/044571)
[87] (WO2023/049371)
[30] US (63/247,494) 2021-09-23

[21] **3,233,241**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) C12N 5/078 (2010.01) C12M 1/42 (2006.01) C12N 15/10 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **A METHOD OF ENHANCED VIRAL TRANSDUCTION USING ELECTROPORATION**
[54] **PROCEDE DE TRANSDUCTION VIRALE AMELIOREE PAR ELECTROPORATION**
[72] FOSTER, JOAN HILLY, US
[72] BRADY, JAMES, US
[71] MAXCYTE, INC., US
[85] 2024-03-22
[86] 2022-09-26 (PCT/US2022/044742)
[87] (WO2023/049458)
[30] US (63/261,654) 2021-09-24

[21] **3,233,242**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61P 21/00 (2006.01)**
[25] EN
[54] **ANTISENSE OLIGONUCLEOTIDES HAVING ONE OR MORE ABASIC UNITS**
[54] **OLIGONUCLEOTIDES ANTISENS AYANT UNE OU PLUSIEURS UNITES ABASIQUES**
[72] OLIVER, RYAN, US
[72] KIM, KEVIN, US
[72] AHERN, MEGHAN, US
[71] SAREPTA THERAPEUTICS, INC., US
[85] 2024-03-22
[86] 2022-09-28 (PCT/US2022/044995)
[87] (WO2023/055774)
[30] US (63/261,860) 2021-09-30
[30] US (63/408,277) 2022-09-20

[21] **3,233,243**
[13] A1
[51] **Int.Cl. C07D 233/58 (2006.01) A61K 31/4164 (2006.01) A61P 43/00 (2006.01) C07D 231/12 (2006.01) C07D 233/61 (2006.01) C07D 235/08 (2006.01) C07D 249/08 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **LIPID NANOPARTICLE COMPOSITIONS FOR DELIVERING CIRCULAR POLYNUCLEOTIDES**
[54] **COMPOSITIONS DE NANOPARTICULES LIPIDIQUES POUR L'ADMINISTRATION DE POLYNUCLEOTIDES CIRCULAIRES**
[72] HORHOTA, ALLEN T., US
[72] YANG, JUNGHOON, US
[72] KAUFFMAN, KEVIN, US
[72] BARNES, THOMAS, US
[72] GOODMAN, BRIAN, US
[72] WESSELHOEFT, ROBERT ALEXANDER, US
[72] BECKER, AMY M., US
[72] MOTZ, GREGORY, US
[71] ORNA THERAPEUTICS, INC., US
[85] 2024-03-22
[86] 2022-09-30 (PCT/US2022/045408)
[87] (WO2023/056033)
[30] US (63/250,932) 2021-09-30

[21] **3,233,245**
[13] A1
[51] **Int.Cl. C07D 491/22 (2006.01)**
[25] EN
[54] **CYCLIC PEROXIDES AS PRODRUGS FOR SELECTIVE DELIVERY OF AGENTS**
[54] **PEROXYDES CYCLIQUES UTILISES EN TANT QUE PROMEDICAMENTS POUR L'ADMINISTRATION SELECTIVE D'AGENTS**
[72] RENSLO, ADAM R., US
[72] CHEN, JUN, US
[72] GONCIARZ, RYAN L., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-03-22
[86] 2022-09-23 (PCT/US2022/076913)
[87] (WO2023/049829)
[30] US (63/248,279) 2021-09-24

[21] **3,233,246**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/39 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTIBODIES TARGETING BAFF-R AND USE THEREOF**
[54] **ANTICORPS CIBLANT BAFF-R ET LEUR UTILISATION**
[72] FISCHER, BENJAMIN, US
[72] HEIN, PYAE P., US
[72] IVANOV, ALEXANDER, US
[72] LI, XINBI, US
[72] SCHNEIDER, MATTHEW, US
[71] DRAGONFLY THERAPEUTICS, INC., US
[85] 2024-03-22
[86] 2022-09-27 (PCT/US2022/077068)
[87] (WO2023/056243)
[30] US (63/250,092) 2021-09-29

[21] **3,233,247**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/08 (2019.01) A61K 39/00 (2006.01)**
[25] EN
[54] **METHOD OF SAFE ADMINISTRATION OF TAU PHOSPHOPEPTIDE CONJUGATE**
[54] **METHODE D'ADMINISTRATION SANS DANGER D'UN CONJUGUE DE PHOSPHOPEPTIDE TAU**
[72] PFEIFER, ANDREA, CH
[72] RAMSBURG, ELIZABETH ANNE, US
[71] JANSSEN PHARMACEUTICALS, INC., US
[71] AC IMMUNE SA, CH
[85] 2024-03-22
[86] 2022-09-29 (PCT/US2022/077279)
[87] (WO2023/056369)
[30] US (63/261,793) 2021-09-29

[21] **3,233,249**
[13] A1
[51] **Int.Cl. F16L 37/56 (2006.01) F16L 37/18 (2006.01) F16L 37/252 (2006.01)**
[25] FR
[54] **TWO-PHASE CONNECTOR**
[54] **CONNECTEUR DIPHASIQUE**
[72] ISSLER, THOMAS, FR
[71] ZELUP, FR
[85] 2024-03-27
[86] 2022-09-30 (PCT/FR2022/051849)
[87] (WO2023/052734)
[30] FR (FR2110341) 2021-09-30

[21] **3,233,250**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **MACHINE LEARNING MODELS FOR ESTIMATION OF LUNG ALVEOLAR VENTILATION PERFUSION MISMATCH**
[54] **MODELES D'APPRENTISSAGE MACHINE POUR L'ESTIMATION D'UNE NON-CORRESPONDANCE DE PERFUSION DE VENTILATION ALVEOLAIRE PULMONAIRE**
[72] MOR, MERAV, IL
[72] MOR, MICHAL, IL
[72] SMILA, AVI, IL
[72] TAL, DANIEL, IL
[72] CEDER, DROR, IL
[71] META FLOW LTD., IL
[85] 2024-03-20
[86] 2022-09-21 (PCT/IL2022/051008)
[87] (WO2023/047397)
[30] US (63/246,807) 2021-09-22
[30] US (63/341,006) 2022-05-12

[21] **3,233,251**
[13] A1
[51] **Int.Cl. C10L 1/08 (2006.01) C10B 53/02 (2006.01) C10B 57/12 (2006.01) C10G 1/06 (2006.01) C10G 3/00 (2006.01) C10L 1/02 (2006.01)**
[25] EN
[54] **BIOFUEL BLENDS WITH IMPROVED OXIDATION STABILITY AND LUBRICITY**
[54] **MELANGES DE BIOCARBURANT AYANT UNE STABILITE A L'OXYDATION ET UN POUVOIR LUBRIFIANT AMELIORES**
[72] VAN DIJK, NICOLAAS, NL
[72] CAIAZZO, ALDO, NL
[72] BALAM, HARISH KUMAR, IN
[72] DE JONGE, DIEDERIK MATTHEUS ANTONIUS, NL
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-03-21
[86] 2022-10-20 (PCT/US2022/078417)
[87] (WO2023/070022)
[30] US (63/257,748) 2021-10-20

[21] **3,233,254**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTIBODY, ANTIBODY-DRUG CONJUGATE THEREOF AND USE THEREOF**
[54] **ANTICORPS, CONJUGUE ANTICORPS-MEDICAMENT DE CELUI-CI ET UTILISATION ASSOCIEE**
[72] HU, YONGHAN, CN
[72] XU, LINFENG, CN
[72] WU, ZHENWEI, CN
[72] RUAN, KA, CN
[72] WANG, WENGUI, CN
[71] EVOPOINT BIOSCIENCES CO., LTD., CN
[85] 2024-03-25
[86] 2022-09-27 (PCT/CN2022/121776)
[87] (WO2023/046202)
[30] CN (202111139621.4) 2021-09-27
[30] CN (202210915323.8) 2022-08-01

[21] **3,233,255**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/407 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS FOR USE IN THE TREATMENT OF CANCER**
[54] **COMPOSES HETEROCYCLIQUES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DU CANCER**
[72] DAVIS, OWEN, GB
[72] HEALD, ROBERT, GB
[72] STOCKLEY, MARTIN, GB
[72] FINCH, HARRY, GB
[72] MANN, SAM, GB
[71] ARTIOS PHARMA LIMITED, GB
[85] 2024-03-25
[86] 2022-10-21 (PCT/GB2022/052690)
[87] (WO2023/067356)
[30] GB (2115156.8) 2021-10-21

[21] **3,233,257**
[13] A1
[51] **Int.Cl. F23Q 7/00 (2006.01) F02P 19/02 (2006.01) F23Q 3/00 (2006.01) F23Q 7/22 (2006.01) H05B 3/00 (2006.01)**
[25] EN
[54] **FOUR-WIRE ELECTRIC HEATING AND IGNITION DEVICE CAPABLE OF TEMPERATURE MEASUREMENT**
[54] **DISPOSITIF DE CHAUFFAGE ET D'ALLUMAGE ELECTRIQUE A QUATRE FILS CAPABLE DE MESURER LA TEMPERATURE**
[72] LEIGH, PETER, CN
[71] CHONGQING LE-MARK TECHNOLOGY CO., LTD., CN
[85] 2024-03-25
[86] 2022-10-17 (PCT/CN2022/125555)
[87] (WO2023/226280)
[30] CN (202210574075.5) 2022-05-25

[21] **3,233,258**
[13] A1
[51] **Int.Cl. H01M 10/0567 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/587 (2010.01) H01M 10/052 (2010.01) H01M 10/0525 (2010.01) H01M 4/36 (2006.01)**
[25] EN
[54] **NON-AQUEOUS ELECTROLYTE SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING THE SAME**
[54] **ELECTROLYTE NON AQUEUX POUR BATTERIE SECONDAIRE AU LITHIUM, ET BATTERIE SECONDAIRE AU LITHIUM LE COMPRENANT**
[72] PARK, SOL JI, KR
[72] LEE, JUNG HOON, KR
[72] LEE, CHUL HAENG, KR
[72] KANG, YOO SUN, KR
[72] LEE, JAE WON, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-20
[86] 2022-10-25 (PCT/KR2022/016347)
[87] (WO2023/075362)
[30] KR (10-2021-0143854) 2021-10-26

[21] **3,233,260**
[13] A1
[51] **Int.Cl. G05B 19/408 (2006.01) G05B 19/401 (2006.01)**
[25] EN
[54] **CONTROL SYSTEM AND METHOD FOR CONTROLLING OPERATION OF A MACHINE IN AN INDUSTRIAL ENVIRONMENT**
[54] **SYSTEME ET PROCEDE DE COMMANDE POUR COMMANDER LE FONCTIONNEMENT D'UNE MACHINE DANS UN ENVIRONNEMENT INDUSTRIEL**
[72] CAMPO, FRITZ ANDRES, US
[72] MARSHALL, CHAD, US
[71] LM WIND POWER A/S, DK
[85] 2024-03-25
[86] 2021-09-27 (PCT/US2021/052179)
[87] (WO2023/048728)

[21] **3,233,261**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 37/02 (2006.01) C07K 16/24 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **ANTI-IL23 ANTIBODY FUSION PROTEIN AND USES THEREOF**
[54] **PROTEINE DE FUSION D'ANTICORPS ANTI-IL23 ET SES UTILISATIONS**
[72] MAO, LANGYONG, CN
[72] YING, HUA, CN
[72] XUE, YI, CN
[72] JIN, XINSHENG, CN
[72] TAO, WEIKANG, CN
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-27
[86] 2022-09-30 (PCT/CN2022/123370)
[87] (WO2023/051798)
[30] CN (202111161893.4) 2021-09-30

[21] **3,233,262**
[13] A1
[51] **Int.Cl. A23C 3/07 (2006.01) A23L 3/28 (2006.01) A61L 2/10 (2006.01)**
[25] EN
[54] **A UV GERMICIDAL TREATMENT SYSTEM FOR OF OPAQUE LIQUIDS**
[54] **SYSTEME POUR TRAITEMENT GERMICIDE PAR UV DE LIQUIDES OPAQUES**
[72] MORTENSEN, RASMUS, DK
[72] MATHIAS, KRISTENSEN, DK
[71] LYRAS DK APS, DK
[85] 2024-03-25
[86] 2022-09-28 (PCT/EP2022/076976)
[87] (WO2023/052418)
[30] DK (PA202170485) 2021-10-01

[21] **3,233,263**
[13] A1
[51] **Int.Cl. G06F 30/20 (2020.01) G06Q 10/06 (2023.01) G06F 8/71 (2018.01) G06F 9/451 (2018.01)**
[25] EN
[54] **DIGITAL AVATAR PLATFORM**
[54] **PLATE-FORME D'AVATAR NUMERIQUE**
[72] SCHOENE, CLARE, US
[72] BESANCON, GILLES, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-25
[86] 2021-09-23 (PCT/US2021/071567)
[87] (WO2023/048751)

[21] **3,233,264**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) B65D 83/04 (2006.01)**
[25] EN
[54] **DEVICE OF DISTRIBUTION OF IMPREGNATED SUPPORTS AND ASSOCIATED METHOD**
[54] **DISPOSITIF DE DISTRIBUTION DE SUPPORTS IMPREGNES ET PROCEDE ASSOCIE**
[72] SAVARESE, MARIO, IT
[72] BALZANO, SALVATORE, IT
[72] NAVARRIA, LAURA, IT
[72] SCHINETTI, GUIDO, IT
[72] BONATTI, ANDREA, IT
[71] COPAN ITALIA S.P.A., IT
[85] 2024-03-25
[86] 2022-09-27 (PCT/IB2022/059190)
[87] (WO2023/052999)
[30] IT (102021000024827) 2021-09-28

[21] **3,233,265**
[13] A1
[51] **Int.Cl. C10B 57/12 (2006.01) C10B 53/02 (2006.01) C10G 1/00 (2006.01) C10G 3/00 (2006.01) C10L 1/02 (2006.01) C10L 1/04 (2006.01)**
[25] EN
[54] **AVIATION FUEL COMPOSITION**
[54] **COMPOSITION DE CARBURANT POUR L'AVIATION**
[72] VALENTICH, GRIFFIN MICHAEL, US
[72] MINER, ELISE MARIE, US
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-03-25
[86] 2022-10-12 (PCT/EP2022/078322)
[87] (WO2023/066738)
[30] US (63/257,744) 2021-10-20

[21] **3,233,266**
[13] A1
[51] **Int.Cl. B60L 15/00 (2006.01) B60L 50/14 (2019.01) B60L 15/04 (2006.01) H02M 1/08 (2006.01) H02M 3/04 (2006.01) H02M 7/44 (2006.01) H02P 27/08 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **ELECTRIC DYNAMIC POWER CONVERSION SYSTEM**
[54] **SYSTEME DE CONVERSION DE PUISSANCE DYNAMIQUE ELECTRIQUE**
[72] COSNEAU, ALEXANDRE, CA
[71] FTEX INC., CA
[85] 2024-03-25
[86] 2022-09-23 (PCT/IB2022/059049)
[87] (WO2023/047364)
[30] US (63/261,513) 2021-09-23

[21] **3,233,267**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) C12N 15/10 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **UBIQUITIN VARIANTS WITH IMPROVED AFFINITY FOR 53BP1**
[54] **VARIANTS D'UBIQUITINE PRESENTANT UNE AFFINITE AMELIOREE POUR 53BP1**
[72] VAKULSKAS, CHRISTOPHER, US
[72] BODE, NICOLE MARY, US
[72] GLENN, STEVE EHREN, US
[72] ZHANG, LIYANG, US
[71] INTEGRATED DNA TECHNOLOGIES, INC., US
[85] 2024-03-22
[86] 2022-09-25 (PCT/US2022/044643)
[87] (WO2023/049421)
[30] US (63/248,300) 2021-09-24
[30] US (63/278,155) 2021-11-11
[30] US (63/321,384) 2022-03-18
[30] US (17/952,252) 2022-09-24

[21] **3,233,268**
[13] A1
[51] **Int.Cl. A61K 47/69 (2017.01) A61K 47/54 (2017.01) A61K 47/64 (2017.01) A61P 31/16 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PEPTIDE DENDRONS AND METHODS OF USE THEREOF**
[54] **DENDRONS PEPTIDIQUES ET LEURS PROCEDES D'UTILISATION**
[72] URELLO, MORGAN AUDREY, US
[72] CHRISTIE, RONALD JAMES, US
[72] VAUGHAN, HANNAH, US
[71] ASTRAZENCA AB, SE
[85] 2024-03-25
[86] 2022-10-07 (PCT/IB2022/059608)
[87] (WO2023/057975)
[30] US (63/262,269) 2021-10-08

[21] **3,233,269**
[13] A1
[51] **Int.Cl. C07D 333/26 (2006.01) A61K 31/381 (2006.01) A61P 35/00 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **THIOPHENE-BASED LIPIDS**
[54] **LIPIDES A BASE DE THIOPHENE**
[72] GAUTAM, MILAN, US
[72] KIM, JEONGHWAN, US
[72] SAHAY, GAURAV, US
[72] GUPTA, MOHIT, US
[72] EYGERIS, YULIA V., US
[72] RENNER, JONAS, US
[71] OREGON STATE UNIVERSITY, US
[85] 2024-03-25
[86] 2022-09-27 (PCT/US2022/044835)
[87] (WO2023/049493)
[30] US (63/248,638) 2021-09-27
[30] US (63/336,800) 2022-04-29

[21] **3,233,271**
[13] A1
[51] **Int.Cl. A61K 6/836 (2020.01) A61K 6/60 (2020.01) A61K 6/80 (2020.01) A61K 6/884 (2020.01)**
[25] EN
[54] **METHOD FOR PRODUCING DENTAL FILLER, DENTAL FILLER, AND DENTAL COMPOSITION**
[54] **PROCEDE DE PRODUCTION D'UN OBTURATEUR DENTAIRE, OBTURATEUR DENTAIRE ET COMPOSITION DENTAIRE**
[72] OHARA, YUKI, JP
[72] MINAMISAWA, HIROTO, JP
[72] TAKAHASHI, MAKOTO, JP
[72] HOSHINO, KOMACHI, JP
[72] MURAKAMI, SHOGO, JP
[71] GC CORPORATION, JP
[85] 2024-03-25
[86] 2022-08-24 (PCT/JP2022/031829)
[87] (WO2023/053787)
[30] JP (2021-161309) 2021-09-30

[21] **3,233,272**
[13] A1
[51] **Int.Cl. H05K 7/20 (2006.01)**
[25] EN
[54] **COOLING DEVICE FOR OPTICAL AND/OR ELECTRONIC ELEMENTS**
[54] **DISPOSITIF DE REFROIDISSEMENT POUR ELEMENTS OPTIQUES ET/OU ELECTRONIQUES**
[72] BALTHASAR, DIRK, DE
[72] WALDORF, MICHAEL, DE
[72] NOACK, NILS, DE
[72] BRINKMANN, NILS, DE
[71] TOMRA SORTING GMBH, DE
[85] 2024-03-25
[86] 2022-10-12 (PCT/EP2022/078391)
[87] (WO2023/062071)
[30] EP (21202268.5) 2021-10-12

[21] **3,233,273**
[13] A1
[51] **Int.Cl. G06Q 10/10 (2023.01) G06Q 10/06 (2023.01) G06Q 50/10 (2012.01)**
[25] EN
[54] **DIGITAL AVATAR PLATFORM FRAMEWORK AND ARCHITECTURE**
[54] **STRUCTURE ET ARCHITECTURE DE PLATEFORME D'AVATAR NUMERIQUE**
[72] SCHOENE, CLARE, US
[72] BESANCON, GILLES, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-25
[86] 2021-09-23 (PCT/US2021/071568)
[87] (WO2023/048752)

[21] **3,233,274**
[13] A1
[51] **Int.Cl. G06N 10/40 (2022.01) G06N 10/60 (2022.01) H04J 14/00 (2006.01)**
[25] EN
[54] **MULTIPLEXING FOR PHOTONIC CIRCUITS**
[54] **MULTIPLEXAGE POUR CIRCUITS PHOTONIQUES**
[72] RUDOLPH, TERENCE, US
[72] CABLE, HUGO, US
[71] PSIQUANTUM, CORP., US
[85] 2024-03-25
[86] 2022-09-28 (PCT/US2022/045079)
[87] (WO2023/055828)
[30] US (63/249,535) 2021-09-28

[21] **3,233,275**
[13] A1
[51] **Int.Cl. G16H 10/60 (2018.01) G16H 80/00 (2018.01)**
[25] EN
[54] **PROXIMITY-BASED DATA ACCESS AUTHENTICATION AND AUTHORIZATION IN AN ANALYTE MONITORING SYSTEM**
[54] **AUTHENTIFICATION ET AUTORISATION D'ACCES A DES DONNEES BASEES SUR LA PROXIMITE DANS UN SYSTEME DE SURVEILLANCE D'ANALYTES**
[72] PAUL, NATHANAEL RICHARD, US
[72] BARRERAS, JORGE R., US
[71] DEXCOM, INC., US
[85] 2024-03-22
[86] 2022-10-17 (PCT/US2022/078241)
[87] (WO2023/069914)
[30] US (63/262,959) 2021-10-22

[21] **3,233,277**
[13] A1
[51] **Int.Cl. G06N 10/40 (2022.01) H04B 10/70 (2013.01) G06N 10/00 (2022.01) G02F 1/225 (2006.01)**
[25] EN
[54] **BELL STATE GENERATOR FOR TEMPORALLY-ENCODED QUBITS**
[54] **GENERATEUR D'ETAT DE BELL POUR BITS QUANTIQUES A CODAGE TEMPOREL**
[72] CABLE, HUGO, US
[71] PSIQUANTUM, CORP., US
[85] 2024-03-25
[86] 2022-09-28 (PCT/US2022/045080)
[87] (WO2023/055829)
[30] US (63/249,531) 2021-09-28

[21] **3,233,279**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **FC-GAMMA RECEPTOR II BINDING AND GLYCAN CONTENT**
[54] **LIAISON DE RECEPTEUR FC-GAMMA ET TENEUR EN GLYCANE**
[72] KANAKARAJ, PALANISAMY, US
[72] HUTTERER, KATARIINA, US
[72] KUHNS, SCOTT, US
[71] AMAGEN, INC., US
[85] 2024-03-25
[86] 2022-10-04 (PCT/US2022/045633)
[87] (WO2023/059607)
[30] US (63/252,245) 2021-10-05
[30] US (63/299,104) 2022-01-13

[21] **3,233,280**
[13] A1
[51] **Int.Cl. G01L 19/06 (2006.01) G01D 21/02 (2006.01) G01F 1/34 (2006.01) G01F 15/00 (2006.01) G01K 13/02 (2021.01) G01L 19/00 (2006.01) G01L 19/08 (2006.01) G05D 7/06 (2006.01)**
[25] EN
[54] **APPARATUS FOR MEASURING THE PRESSURE AND FLOW RATE OF A HIGH TEMPERATURE CORROSIVE LIQUID**
[54] **APPAREIL POUR MESURER LA PRESSION ET LE DEBIT D'UN LIQUIDE CORROSIF A HAUTE TEMPERATURE**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-25
[86] 2022-09-13 (PCT/US2022/043345)
[87] (WO2023/048991)
[30] US (17/485,670) 2021-09-27

[21] **3,233,281**
[13] A1
[51] **Int.Cl. C07C 217/50 (2006.01) C07C 213/04 (2006.01) C07C 217/52 (2006.01) C07C 217/02 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING ALKOXYLATED ETHER AMINES AND USES THEREOF**
[54] **PROCEDE DE PRODUCTION D'ETHERAMINES ALCOXYLEES ET LEURS UTILISATIONS**
[72] DELUGE, MAXENCE M., US
[72] LEWIS, DAVID C., US
[71] HUNTSMAN PETROCHEMICAL CORPORATION, US
[85] 2024-03-25
[86] 2022-10-12 (PCT/US2022/046413)
[87] (WO2023/064364)
[30] US (63/254,552) 2021-10-12

[21] **3,233,282**
[13] A1
[51] **Int.Cl. C09C 1/50 (2006.01)**
[25] EN
[54] **METHODS OF PRODUCING CARBON BLACKS FROM LOW-YIELDING FEEDSTOCKS AND PRODUCTS MADE FROM SAME**
[54] **PROCEDES DE PRODUCTION DE NOIRS DE CARBONE A PARTIR DE CHARGES A FAIBLE RENDEMENT ET PRODUITS FABRIQUES A PARTIR DE CEUX-CI**
[72] MATHEU, DAVID M., US
[72] MOESER, GEOFFREY D., US
[72] CLARKE, THEIS F., US
[72] MCELWAIN, THOMAS E., US
[72] CROCKER, DAVID S., US
[72] GOPAN, AKSHAY, US
[72] RUMPF, FREDERICK H., US
[72] PORTEOUS, WILLIAM M., US
[71] CABOT CORPORATION, US
[85] 2024-03-25
[86] 2022-09-29 (PCT/US2022/045225)
[87] (WO2023/055931)
[30] US (63/250,423) 2021-09-30
[30] US (63/323,341) 2022-03-24

[21] **3,233,283**
[13] A1
[51] **Int.Cl. G01N 35/10 (2006.01) G01B 11/10 (2006.01) G01F 22/00 (2006.01) A61J 3/00 (2006.01) G01B 11/08 (2006.01) G01F 25/00 (2022.01) G01N 15/02 (2024.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ACCURATE AND REPEATABLE DELIVERY OF ACTIVE PHARMACEUTICAL INGREDIENTS**
[54] **SYSTEMES ET METHODES D'ADMINISTRATION PRECISE ET REITERABLE D'INGREDIENTS PHARMACEUTIQUES ACTIFS**
[72] WARREN, WILLIAM, US
[72] SMITH, WALTER LEE, US
[71] TRANSPORT AUTHORITY, INC., US
[85] 2024-03-25
[86] 2022-09-14 (PCT/US2022/043512)
[87] (WO2023/043826)
[30] US (63/244,031) 2021-09-14

[21] **3,233,284**
[13] A1
[51] **Int.Cl. G06N 3/047 (2023.01) G06N 3/0464 (2023.01) G06N 3/084 (2023.01)**
[25] EN
[54] **BNN TRAINING WITH MINI-BATCH PARTICLE FLOW**
[54] **ENTRAINEMENT D'UN BNN AVEC FLUX DE PARTICULES PAR MINI-LOTS**
[72] BAKER, SUZANNE M., US
[72] ALLERDT, ANDREW C., US
[72] SALPUKAS, MICHAEL R., US
[71] RAYTHEON COMPANY, US
[85] 2024-03-25
[86] 2022-10-25 (PCT/US2022/047728)
[87] (WO2023/076269)
[30] US (17/509,278) 2021-10-25

[21] **3,233,285**
[13] A1
[51] **Int.Cl. H04N 13/307 (2018.01) H04N 13/351 (2018.01) H04N 13/363 (2018.01) H04N 13/368 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROJECTING IMAGES FROM LIGHT FIELD DISPLAYS BASED ON POSITIONAL TRACKING DATA**
[54] **SYSTEMES ET PROCEDES POUR PROJETER DES IMAGES A PARTIR D'AFFICHEURS DE CHAMP LUMINEUX SUR LA BASE DE DONNEES DE SUIVI DE POSITION**
[72] KRAUTHAMER, AKIVA MEIR, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2024-03-27
[86] 2022-10-17 (PCT/US2022/046910)
[87] (WO2023/069369)
[30] US (17/505,268) 2021-10-19

[21] **3,233,286**
[13] A1
[51] **Int.Cl. E21B 34/06 (2006.01) E21B 33/12 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **CONTINUOUS CHOKE FOR DOWNHOLE VALVE**
[54] **DUSE CONTINUE POUR VANNE DE FOND DE TROU**
[72] CANDIANI, IVAN, BR
[72] ASSIS CRISCOLO DE MELO MACHADO, BERNARDO, BR
[72] ACCORDI, ICARO, BR
[72] ELSTON, CASSIUS, BR
[72] SCUSSIATO, EDUARDO, BR
[72] BIN ALSHEIKH, ALI, SA
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-25
[86] 2022-09-23 (PCT/US2022/044593)
[87] (WO2023/049389)
[30] US (63/261,538) 2021-09-23

[21] **3,233,287**
[13] A1
[51] **Int.Cl. A61M 60/13 (2021.01) A61M 60/216 (2021.01) A61B 5/00 (2006.01) A61B 5/0215 (2006.01)**
[25] EN
[54] **PERCUTANEOUS CIRCULATORY SUPPORT DEVICE INCLUDING PROXIMAL PRESSURE SENSOR**
[54] **DISPOSITIF DE SUPPORT CIRCULATOIRE PERCUTANE COMPRENANT UN CAPTEUR DE PRESSION PROXIMAL**
[72] BEEKMAN, DARRIN DALE, US
[72] RADMAN, LLOYD, US
[72] STRUTHERS, BRETT, US
[72] LANDREE, MAREN, US
[71] BOSTON SCIENTIFIC SCIMED INC, US
[85] 2024-03-25
[86] 2022-11-16 (PCT/US2022/050059)
[87] (WO2023/091457)
[30] US (63/390,054) 2022-07-18
[30] US (63/279,941) 2021-11-16

[21] **3,233,288**
[13] A1
[51] **Int.Cl. C12Q 1/6876 (2018.01) G16H 10/60 (2018.01) G16H 20/10 (2018.01) A61B 5/00 (2006.01)**
[25] EN
[54] **PATIENT CENTRIC PRECISION MODEL FOR ANTI-TNF THERAPY**
[54] **MODELE DE PRECISION CENTRE SUR LE PATIENT POUR UNE THERAPIE ANTI-TNF**
[72] DERVIEUX, THIERRY, US
[71] PROMETHEUS LABORATORIES INC., US
[85] 2024-03-25
[86] 2022-09-29 (PCT/US2022/045261)
[87] (WO2023/055955)
[30] US (63/261,938) 2021-09-30
[30] US (63/273,082) 2021-10-28

[21] **3,233,289**
[13] A1
[51] **Int.Cl. H02M 7/5387 (2007.01)**
[25] EN
[54] **POWER MODULE AND ELECTRICAL EQUIPMENT**
[54] **MODULE DE PUISSANCE ET EQUIPEMENT ELECTRIQUE**
[72] HE, YONGBIN, CN
[72] HAN, BING, CN
[72] LOUIS, ALAIN YVES, CN
[72] HE, RUIXING, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-27
[86] 2022-11-15 (PCT/CN2022/131801)
[87] (WO2023/093562)
[30] CN (202111423173.0) 2021-11-26

[21] **3,233,291**
[13] A1
[51] **Int.Cl. B60R 1/00 (2022.01) G02B 27/01 (2006.01)**
[25] EN
[54] **DISPLAY APPARATUS, VEHICLE, AND CONTROL METHOD FOR VEHICLE**
[54] **APPAREIL D'AFFICHAGE, VEHICULE ET PROCEDE DE COMMANDE POUR VEHICULE**
[72] ZHONG, YILIN, CN
[72] WU, CHUNFEN, CN
[72] HUANG, JIANG, CN
[72] DAI, JUN, CN
[72] SU, FENGWU, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-27
[86] 2022-12-19 (PCT/CN2022/139849)
[87] (WO2023/125088)
[30] CN (202111656373.0) 2021-12-30

[21] **3,233,292**
[13] A1
[51] **Int.Cl. B60L 3/00 (2019.01) H02J 7/00 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION DEVICE, BATTERY PACK AND VEHICLE**
[54] **DISPOSITIF DE DISTRIBUTION D'ENERGIE, BLOC-BATTERIE ET VEHICULE**
[72] E, CONGJI, CN
[72] GAO, JIAN, CN
[72] PENG, QINGBO, CN
[72] WU, ZHENHAN, CN
[72] WANG, CHENGZHI, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-27
[86] 2022-11-18 (PCT/CN2022/132874)
[87] (WO2023/116298)
[30] CN (202123233795.5) 2021-12-20
[30] CN (202210182971.7) 2022-02-25

[21] **3,233,293**
[13] A1
[51] **Int.Cl. G06F 30/13 (2020.01) G06F 30/12 (2020.01)**
[25] EN
[54] **GENERATING VECTOR VERSIONS OF STRUCTURAL PLANS**
[54] **PRODUCTION DE VERSIONS VECTORIELLES DE PLANS STRUCTURELS**
[72] CARRINGTON, CHARLES C., US
[72] WESTRE, AARON, US
[71] UNEARTHED LAND TECHNOLOGIES, LLC, US
[85] 2024-03-25
[86] 2022-09-27 (PCT/US2022/077086)
[87] (WO2023/056253)
[30] US (17/487,838) 2021-09-28

[21] **3,233,295**
[13] A1
[51] **Int.Cl. E21B 47/18 (2012.01) E21B 43/267 (2006.01) E21B 47/01 (2012.01)**
[25] EN
[54] **BINDER JETTING SYSTEM AND METHOD FOR PRODUCING ELECTROMAGNETIC PULSED POWER DRILLING COMPONENTS**
[54] **SYSTEME DE PROJECTION DE LIANT ET PROCEDE DE PRODUCTION DE COMPOSANTS DE FORAGE A COURANT PULSE ELECTROMAGNETIQUE**
[72] PANDA, KRUTIBAS, US
[72] LEUNG, PHILIP PARK HUNG, US
[72] GANGAMWAR, MANOJ, US
[72] VOGLEWEDE, DANIEL BRENDAN, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-25
[86] 2022-10-03 (PCT/US2022/045533)
[87] (WO2023/101758)
[30] US (17/538,215) 2021-11-30

[21] **3,233,296**
[13] A1
[51] **Int.Cl. G06T 7/246 (2017.01) G06V 20/10 (2022.01) A01B 79/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR OBJECT TRACKING AND LOCATION PREDICTION**
[54] **SYSTEMES ET PROCEDES DE SUIVI D'OBJET ET DE PREDICTION D'EMPLACEMENT**
[72] PILLMANN, RAVEN, US
[72] COCHRANE, SIMON, US
[72] STARK, BRIAN PHILLIP, US
[72] SERGEEV, ALEXANDER IGOREVICH, US
[71] CARBON AUTONOMOUS ROBOTIC SYSTEMS INC., US
[85] 2024-03-25
[86] 2023-01-18 (PCT/US2023/011030)
[87] (WO2023/141144)
[30] US (63/300,999) 2022-01-19

[21] **3,233,297**
[13] A1
[51] **Int.Cl. H04N 13/307 (2018.01) H04N 13/351 (2018.01) H04N 13/363 (2018.01) H04N 13/368 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROJECTING IMAGES FROM LIGHT FIELD DISPLAYS BASED ON REFLECTED LIGHT RAYS**
[54] **SYSTEMES ET PROCEDES POUR LA PROJECTION D'IMAGES A PARTIR D'AFFICHAGES DE CHAMPS LUMINEUX BASES SUR DES RAYONS LUMINEUX REFLECHIS**
[72] KRAUTHAMER, AKIVA MEIR, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2024-03-27
[86] 2022-10-17 (PCT/US2022/046918)
[87] (WO2023/069371)
[30] US (17/505,285) 2021-10-19

[21] **3,233,300**
[13] A1
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 50/107 (2021.01) H01M 50/167 (2021.01) H01M 50/213 (2021.01) H01M 50/342 (2021.01) H01M 50/533 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01) H01M 50/593 (2021.01)**
[25] EN
[54] **ELECTRODE ASSEMBLY, CYLINDRICAL BATTERY CELL, AND BATTERY PACK AND VEHICLE COMPRISING THE SAME**
[54] **ENSEMBLE D'ELECTRODES, ELEMENT CYLINDRIQUE DE BATTERIE, BLOC-BATTERIE ET VEHICULE LES COMPRENANT**
[72] JO, MIN-KI, KR
[72] KANG, BO-HYUN, KR
[72] KIM, DO-GYUN, KR
[72] CHOI, SU-JI, KR
[72] HWANGBO, KWANG-SU, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-27
[86] 2022-09-28 (PCT/KR2022/014591)
[87] (WO2023/055088)
[30] KR (10-2021-0130390) 2021-09-30
[30] KR (10-2021-0177062) 2021-12-10
[30] KR (10-2022-0089232) 2022-07-19

[21] **3,233,301**
[13] A1
[51] **Int.Cl. A24D 1/02 (2006.01) A24D 1/20 (2020.01)**
[25] EN
[54] **ARTICLE WITH COMBUSTION RETARDING PROPERTIES AND USES THEREOF**
[54] **ARTICLE AYANT DES PROPRIETES DE RETARDEMENT DE COMBUSTION ET SES UTILISATIONS**
[72] ABI AOUN, WALID, GB
[72] HERNANDEZ SANCHEZ, JOSE, GB
[72] HODGSON, MATTHEW, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-27
[86] 2022-10-19 (PCT/GB2022/052660)
[87] (WO2023/067332)
[30] GB (2115008.1) 2021-10-20

[21] **3,233,306**
[13] A1
[51] **Int.Cl. E21B 19/07 (2006.01) E21B 19/10 (2006.01) E21B 19/24 (2006.01)**
[25] EN
[54] **VARIABLE-DIAMETER GUIDE BUSHING DEVICE FOR DRILLING EQUIPMENT, FOR CHANGING THE DRILLING TOOL**
[54] **DISPOSITIF DE DOUILLE DE GUIDAGE A DIAMETRE VARIABLE D'EQUIPEMENTS DE FORAGE POUR LE CHANGEMENT D'OUTILS DE FORAGE**
[72] BIZAMA ALMENDRAS, RAUL PATRICIO, CL
[72] IZQUIERDO GONZALEZ, FELIPE, CL
[71] BIZAMA ALMENDRAS, RAUL PATRICIO, CL
[71] IZQUIERDO GONZALEZ, FELIPE, CL
[85] 2024-03-27
[86] 2021-09-28 (PCT/IB2021/058873)
[87] (WO2023/052812)

[21] **3,233,307**
[13] A1
[51] **Int.Cl. F21V 1/00 (2006.01) H05B 47/115 (2020.01) H05B 47/13 (2020.01) H05B 47/19 (2020.01) F21V 19/00 (2006.01) F21V 21/088 (2006.01) F21V 23/00 (2015.01) F21V 23/04 (2006.01)**
[25] EN
[54] **CONTROL MODULE FOR A LIGHTING FIXTURE**
[54] **MODULE DE COMMANDE POUR UN APPAREIL D'ECLAIRAGE**
[72] BHUTANI, ANKIT, US
[72] CAMDEN, RICHARD, US
[72] GASCHO, KEVIN, US
[72] PHILLIPS, STEPHEN, US
[72] MILLNER, KEVIN, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2024-03-27
[86] 2022-10-21 (PCT/US2022/047382)
[87] (WO2023/069684)
[30] US (63/270,896) 2021-10-22
[30] US (63/341,687) 2022-05-13

[21] **3,233,308**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/50 (2017.01) A61K 47/54 (2017.01) A61K 47/55 (2017.01) A61K 47/56 (2017.01) A61P 21/00 (2006.01)**
[25] EN
[54] **MUSCLE TARGETING COMPLEXES FOR TREATING DYSTROPHINOPATHIES**
[54] **COMPLEXES DE CIBLAGE MUSCULAIRE POUR TRAITER DES DYSTROPHINOPATHIES**
[72] WEEDEN, TIMOTHY, US
[72] VIEIRA, BENJAMIN, US
[72] DESJARDINS, CODY A., US
[72] SUBRAMANIAN, ROMESH R., US
[72] QATANANI, MOHAMMED T., US
[72] QUINN, BRENDAN, US
[72] NAJIM, JOHN, US
[72] SHEN, PEIYI, US
[71] DYNE THERAPEUTICS, INC., US
[85] 2024-03-27
[86] 2022-10-31 (PCT/US2022/078975)
[87] (WO2023/077120)
[30] US (63/274,306) 2021-11-01

[21] **3,233,309**
[13] A1
[51] **Int.Cl. G06F 8/65 (2018.01)**
[25] EN
[54] **METHODS FOR UPDATING AN ELECTRONIC DEVICE**
[54] **PROCEDES DE MISE A JOUR D'UN DISPOSITIF ELECTRONIQUE**
[72] BUSH, STEPHEN PORTER, US
[72] RADEMACHER, TIMOTHY JOHN, US
[72] WILLIAMS, JENNIFER TOPMILLER, US
[71] LEXMARK INTERNATIONAL, INC, US
[85] 2024-03-27
[86] 2022-04-23 (PCT/US2022/026076)
[87] (WO2023/063998)
[30] US (63/256,615) 2021-10-17
[30] US (17/727,741) 2022-04-23

[21] **3,233,311**
[13] A1
[51] **Int.Cl. G01R 29/08 (2006.01) G21J 5/00 (2006.01) H02H 5/00 (2006.01)**
[25] EN
[54] **APPARATUS FOR DETECTION OF ELECTRICAL DISTURBANCES RESULTING FROM ELECTROMAGNETIC PULSE AND SOLAR STORM**
[54] **APPAREIL DE DETECTION DE PERTURBATIONS ELECTRIQUES RESULTANT D'UNE IMPULSION ELECTROMAGNETIQUE ET D'UNE ERUPTION SOLAIRE**
[72] BRADLEY, ARTHUR THOMAS, US
[71] FARADAY DEFENSE CORPORATION, US
[85] 2024-03-27
[86] 2022-09-22 (PCT/US2022/076889)
[87] (WO2023/056216)
[30] US (63/251,090) 2021-10-01
[30] US (17/649,919) 2022-02-03

[21] **3,233,314**
[13] A1
[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/23 (2019.01) G06F 16/27 (2019.01)**
[25] EN
[54] **GROUPS A AND B: SYSTEM AND METHOD FOR DECENTRALIZED TIMESTAMPING OF A SUBMISSION OF CONTENT ONTO A BLOCKCHAIN GROUP C: METHOD FOR TIMESTAMPING VERIFICATION OF A SUBMISSION OF CONTENT ONTO A BLOCKCHAIN**
[54] **GROUPES A ET B : SYSTEME ET PROCEDE D'HORODATAGE DECENTRALISE D'UNE SOUMISSION DE CONTENU A UN GROUPE DE CHAINES DE BLOCS C : PROCEDE DE VERIFICATION PAR HORODATAGE D'UNE SOUMISSION DE CONTENU SUR UNE CHAINE DE BLOCS**
[72] KHANDELWAL, HARSCH, CA
[72] DE JONG, MATT, CA
[71] UREEQA INC., CA
[85] 2024-03-27
[86] 2022-09-30 (PCT/CA2022/051456)
[87] (WO2023/050012)
[30] US (63/250,436) 2021-09-30

[21] **3,233,315**
[13] A1
[51] **Int.Cl. C07K 5/068 (2006.01) C12N 5/0775 (2010.01) C12N 1/38 (2006.01)**
[25] EN
[54] **SALTS OF DIPEPTIDES AND THEIR USES IN CELL CULTURE**
[54] **SELS DE DIPEPTIDES ET LEURS UTILISATIONS DANS LA CULTURE CELLULAIRE**
[72] BAHR, SUSANNE, DE
[72] BENEDIKT, ANNE, DE
[72] JOST, CHRISTINA, DE
[72] SCHILLING, MARTIN, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2024-03-27
[86] 2022-09-30 (PCT/EP2022/077368)
[87] (WO2023/057346)
[30] EP (21200872.6) 2021-10-05

[21] **3,233,316**
[13] A1
[51] **Int.Cl. A61B 17/11 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **DEVICE FOR PERFORMING ANASTOMOSIS**
[54] **DISPOSITIF POUR REALISER UNE ANASTOMOSE**
[72] HAVENGA, KLAAS, NL
[72] KOOIJMAN, IVO, NL
[71] IMPLICAN B.V., NL
[71] RIJKSUNIVERSITEIT GRONINGEN, NL
[71] ACADEMISCH ZIEKENHUIS GRONINGEN, NL
[85] 2024-03-27
[86] 2022-09-28 (PCT/NL2022/050542)
[87] (WO2023/055232)
[30] NL (2029264) 2021-09-28

[21] **3,233,319**
[13] A1
[51] **Int.Cl. A61K 31/501 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **RESMETIROM FOR REDUCING LIVER VOLUME**
[54] **RESMETIROM PERMETTANT DE REDUIRE LE VOLUME DU FOIE**
[72] TAUB, REBECCA, US
[71] MADRIGAL PHARMACEUTICALS, INC., US
[85] 2024-03-27
[86] 2022-09-27 (PCT/US2022/044826)
[87] (WO2023/049491)
[30] US (63/248,634) 2021-09-27

[21] **3,233,320**
[13] A1
[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **"AN EXCAVATOR WEAR ASSEMBLY"**
[54] **ENSEMBLE D'USURE POUR EXCAVATRICE**
[72] BECK, SAMUEL, AU
[72] ASHBY, IAN, AU
[72] HUME, DAVID, AU
[72] WATERMAN, BRENDAN, AU
[72] LILLEY, BRUCE, AU
[72] LAWLER, TODD, AU
[71] CQMS PTY LTD, AU
[85] 2024-03-27
[86] 2022-10-20 (PCT/AU2022/051259)
[87] (WO2023/064987)
[30] AU (2021903375) 2021-10-21

[21] **3,233,321**
[13] A1
[51] **Int.Cl. H01Q 3/24 (2006.01) H01Q 19/06 (2006.01) H01Q 21/00 (2006.01) H01Q 21/20 (2006.01) H01Q 25/00 (2006.01)**
[25] EN
[54] **MULTI-BEAM ANTENNA ARRAY**
[54] **RESEAU D'ANTENNES A FAISCEAUX MULTIPLES**
[72] SZCZEPANIK, JOHN-PAUL, GB
[72] KEETON, RICHARD, GB
[72] SHARMA, VIKAS, GB
[72] PAPAIOANNOU, MARIA, GB
[72] DE JAGER, DEREK, GB
[72] AL-TAEI, SARMAD, GB
[72] SAVAGE, KEVIN, GB
[72] CANDOTTI, MASSIMO, GB
[72] WILLMOTT, IAN, GB
[72] LONG, NICHOLAS LEONARD, GB
[72] TURPIN, JEREMIAH P., US
[72] FINNEY, JOHN, GB
[71] ALL.SPACE NETWORKS LIMITED, GB
[85] 2024-03-27
[86] 2022-09-20 (PCT/GB2022/052371)
[87] (WO2023/052743)
[30] GB (2113903.5) 2021-09-29

[21] **3,233,322**
[13] A1
[51] **Int.Cl. G01N 27/12 (2006.01)**
[25] EN
[54] **MOLECULARLY IMPRINTED POLYMER COATINGS AND SENSORS FOR BIODETECTION**
[54] **REVETEMENTS POLYMERES A EMPREINTE MOLECULAIRE ET CAPTEURS DE BIODETECTION**
[72] REZAI, POUYA, US
[72] BRAR, SATINDER, US
[72] DOOSTMOHAMMADI, ALI, US
[72] AKHTARIAN, SHIVA, US
[72] YOUSSEF, KHALED, US
[72] KRAFT, GARRETT, US
[71] 6TH WAVE INNOVATIONS CORP, US
[85] 2024-03-27
[86] 2022-09-28 (PCT/US2022/077198)
[87] (WO2023/056310)
[30] US (63/249,369) 2021-09-28

[21] **3,233,323**
[13] A1
[51] **Int.Cl. A61K 8/14 (2006.01) A61K 8/64 (2006.01) A61K 38/05 (2006.01) A61K 38/08 (2019.01) A61P 17/00 (2006.01) A61Q 19/02 (2006.01)**
[25] EN
[54] **BRIGHTENING COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS D'AZURAGE ET METHODES D'UTILISATION**
[72] WIDGEROW, ALAN DAVID, US
[72] GARRUTO, JOHN A., US
[71] ALASTIN SKINCARE, INC., US
[85] 2024-03-27
[86] 2022-09-27 (PCT/US2022/044916)
[87] (WO2023/055741)
[30] US (63/249,477) 2021-09-28

[21] **3,233,325**
[13] A1
[51] **Int.Cl. A47G 21/00 (2006.01)**
[25] EN
[54] **HIGH-STRENGTH ENVIRONMENT-FRIENDLY TABLEWARE**
[54] **VAISSELLE RESPECTUEUSE DE L'ENVIRONNEMENT A HAUTE RESISTANCE**
[72] WONG, KAM YIU, CN
[71] SABERT (ZHONGSHAN) LIMITED, CN
[85] 2024-03-27
[86] 2021-07-02 (PCT/CN2021/104129)
[87] (WO2022/110809)
[30] CN (202011371023.5) 2020-11-30

[21] **3,233,326**
[13] A1
[51] **Int.Cl. B64C 27/20 (2023.01) A63H 27/00 (2006.01) B64C 29/00 (2006.01) B64C 39/00 (2023.01) B64C 27/08 (2023.01) B64C 27/10 (2023.01) B64C 39/02 (2023.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AERIAL VEHICLE (AV) FLIGHT CONTROL**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE VOL DE VEHICULE AERIEN (AV)**
[72] ELERYAN, OMAR, US
[72] CZARNOTA, SIMON, US
[71] CLEO ROBOTICS INC., US
[85] 2024-03-27
[86] 2022-10-03 (PCT/US2022/045548)
[87] (WO2023/056093)
[30] US (63/251,515) 2021-10-01

[21] **3,233,327**
[13] A1
[51] **Int.Cl. B05C 5/02 (2006.01) H01M 4/139 (2010.01) H01M 10/052 (2010.01) H01M 4/04 (2006.01) H01M 10/42 (2006.01)**
[25] EN
[54] **COATING DIE FOR LITHIUM SECONDARY BATTERY, INCLUDING REMOVABLE SPACER SHIMS**
[54] **FILIERE D'ENDUCTION POUR BATTERIE RECHARGEABLE AU LITHIUM, COMPRENANT DES CALES D'ESPACEMENT AMOVIBLES**
[72] HAN, YOONJU, KR
[72] AHN, BYOUNG HOON, KR
[72] CHOI, HYUNWOO, KR
[72] CHAE, HYEONG GEUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-27
[86] 2022-10-12 (PCT/KR2022/015360)
[87] (WO2023/063705)
[30] KR (10-2021-0135173) 2021-10-12

[21] **3,233,328**
[13] A1
[51] **Int.Cl. A61K 31/5377 (2006.01) A61K 31/675 (2006.01) A61P 13/02 (2006.01) A61P 31/04 (2006.01) C07D 403/06 (2006.01) C07F 9/6558 (2006.01)**
[25] EN
[54] **LPXC INHIBITORS AND USES THEREOF**
[54] **INHIBITEURS DE LPXC ET LEURS UTILISATIONS**
[72] TENG, MIN, US
[71] BLACKSMITH MEDICINES, INC., US
[85] 2024-03-27
[86] 2022-09-26 (PCT/US2022/044710)
[87] (WO2023/055686)
[30] US (63/249,166) 2021-09-28

[21] **3,233,329**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **STACKABLE FIBER OPTIC SPLICE HOLDER WITH SPACE EFFICIENT SPLICE HOLDER RETENTION**
[54] **SUPPORT D'EPISSURE DE FIBRE OPTIQUE EMPILABLE AYANT UNE RETENTION DE SUPPORT D'EPISSURE EFFICACE DANS L'ESPACE**
[72] RAY, CRAIG DWAYNE, US
[71] AMPHENOL NETWORK SOLUTIONS, INC., US
[85] 2024-03-26
[86] 2021-09-27 (PCT/US2021/052191)
[87] (WO2023/048730)

[21] **3,233,330**
[13] A1
[51] **Int.Cl. C07H 21/02 (2006.01) C12N 15/113 (2010.01) A61P 9/12 (2006.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 31/713 (2006.01)**
[25] EN
[54] **ANGIOTENSINOGEN-MODULATING COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS DE MODULATION DE L'ANGIOTENSINOGENE ET LEURS PROCEDES D'UTILISATION**
[72] LI, ZHEN, US
[72] ZHU, RUI, US
[72] ZHOU, ZHIQING (JOEL), US
[72] FULTZ, KIMBERLY, US
[71] ADARX PHARMACEUTICALS, INC., US
[85] 2024-03-26
[86] 2022-09-30 (PCT/US2022/077389)
[87] (WO2023/056446)
[30] US (63/251,562) 2021-10-01
[30] US (63/287,960) 2021-12-09

[21] **3,233,331**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/42 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **ANTI-GALECTIN-9 ANTIBODIES AND THERAPEUTIC USES THEREOF**
[54] **ANTICORPS ANTI-GALECTINE-9 ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] FILIPOVIC, ALEKSANDRA, US
[72] ELENKO, ERIC, US
[72] PADEN, HEATHER, US
[72] KORTH, CHRISTOPHER, US
[72] SAHASRANAMAN, SRIKUMAR, CH
[72] BUDHA, NAGESHWAR, CH
[71] PURETECH LYT, INC., US
[71] BEIGENE SWITZERLAND GMBH, CH
[85] 2024-03-26
[86] 2022-09-30 (PCT/US2022/077408)
[87] (WO2023/056461)
[30] US (63/251,227) 2021-10-01
[30] US (63/277,384) 2021-11-09

[21] **3,233,332**
[13] A1
[51] **Int.Cl. A01K 15/00 (2006.01) A01K 15/02 (2006.01) A63K 3/00 (2006.01) G07C 1/24 (2006.01)**
[25] EN
[54] **TIMER SIGNALING SYSTEM AND METHODS**
[54] **SYSTEME ET PROCEDES DE SIGNALISATION DE CHRONOMETRE**
[72] CHIAPETTA, JAMES R., US
[72] CAMARILLO, SHARON, US
[71] ACHIEVE EQUINE LLC, US
[85] 2024-03-26
[86] 2022-09-21 (PCT/US2022/044270)
[87] (WO2023/049193)
[30] US (63/248,625) 2021-09-27

[21] **3,233,333**
[13] A1
[51] **Int.Cl. G06F 9/48 (2006.01) G06N 10/60 (2022.01) G06F 9/50 (2006.01)**
[25] EN
[54] **HYBRID SYSTEMS AND METHODS FOR SECURE EXECUTION OF QUANTUM AND CLASSICAL WORKFLOWS ON ADVANCED COMPUTING DEVICES**
[54] **SYSTEMES HYBRIDES ET PROCEDES POUR L'EXECUTION SECURISEE DE FLUX DE TRAVAIL QUANTIQUES ET CLASSIQUES SUR DES DISPOSITIFS DE CALCUL AVANCE**
[72] RADHA, SANTOSH KUMAR, IN
[72] CUNNINGHAM, WILLIAM JOSEPH, CA
[72] SHAH, NOLAN AMIT, US
[72] GOKTAS, OKTAY, CA
[71] AGNOSTIQ INC., CA
[85] 2024-03-27
[86] 2022-10-07 (PCT/CA2022/051488)
[87] (WO2023/056565)
[30] US (63/262,220) 2021-10-07

[21] **3,233,334**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MAKING INSOLES OPTIMIZING MOVEMENT AND POSITION POSTURAL MOTOR PATTERNS OF A PATIENT**
[54] **SYSTEME ET PROCEDE DE FABRICATION DE SEMELLES INTERIEURES OPTIMISANT LES SCHEMAS MOTEURS POSTURAUX DE MOUVEMENT ET DE POSITION D'UN PATIENT**
[72] MARESCA, GIOVANNI, IT
[71] HUMAN MOTOR PATTERNS S.R.L., IT
[85] 2024-03-27
[86] 2022-09-30 (PCT/IB2022/059328)
[87] (WO2023/053076)
[30] EP (21425044.1) 2021-10-01

[21] **3,233,335**
[13] A1
[51] **Int.Cl. C07G 1/00 (2011.01) C08H 7/00 (2011.01) A23L 33/10 (2016.01) A23L 33/105 (2016.01) A61K 8/86 (2006.01) A61K 8/97 (2017.01) A61K 31/00 (2006.01) A61K 36/00 (2006.01) A61P 29/00 (2006.01) C08J 11/14 (2006.01) C08J 11/16 (2006.01)**
[25] EN
[54] **LIGININ FLOWER PRODUCTION AND USES THEREOF**
[54] **PRODUCTION DE FLEURS DE LIGININE ET LEURS UTILISATIONS**
[72] THIBAUT KOUMBA, GEORGES, CA
[71] SILICYCLE INC., CA
[85] 2024-03-22
[86] 2022-11-29 (PCT/CA2022/051743)
[87] (WO2023/092241)
[30] US (63/264,627) 2021-11-29

[21] **3,233,336**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01)**
[25] EN
[54] **CIRCULAR RNA AND PREPARATION METHOD THEREOF**
[54] **ARN CIRCULAIRE ET SON PROCEDE DE PREPARATION**
[72] LI, SIQI, CN
[72] XU, YIFENG, CN
[72] LIU, CHUXIAO, CN
[72] CHEN, LINGLING, CN
[71] CENTER FOR EXCELLENCE IN MOLECULAR CELL SCIENCE, CHINESE ACADEMY OF SCIENCES, CN
[85] 2024-03-26
[86] 2022-09-26 (PCT/CN2022/121279)
[87] (WO2023/046153)
[30] CN (202111131281.0) 2021-09-26
[30] CN (202111138732.3) 2021-09-27
[30] CN (202111136958.X) 2021-09-27

[21] **3,233,337**
[13] A1
[51] **Int.Cl. C08L 27/06 (2006.01) C08K 5/11 (2006.01) C08K 5/12 (2006.01) C08L 1/02 (2006.01) C08L 3/02 (2006.01) C08L 5/00 (2006.01) C08L 67/00 (2006.01) C08L 69/00 (2006.01)**
[25] EN
[54] **COMPOSTABLE PLASTICIZED POLYVINYL CHLORIDE COMPOSITIONS AND RELATED METHODS**
[54] **COMPOSITIONS DE POLY(CHLORURE DE VINYLE) PLASTIFIE COMPOSTABLE ET PROCEDES ASSOCIES**
[72] PLANETA, MIREK, CA
[72] MANN, ALEX, CA
[72] CLIMOV, VLADIMIR, CA
[71] SINGULAR SOLUTIONS INC., CA
[85] 2024-03-27
[86] 2022-09-30 (PCT/CA2022/051458)
[87] (WO2023/050014)
[30] US (63/250,385) 2021-09-30

[21] **3,233,338**
[13] A1
[51] **Int.Cl. A61C 13/00 (2006.01) A61C 5/70 (2017.01) A61C 13/083 (2006.01)**
[25] EN
[54] **METHOD OF COLORING DENTAL BLOCK AND DENTAL BLOCK**
[54] **PROCEDE DE COLORATION D'UN BLOC DE DENTISTERIE, ET BLOC DE DENTISTERIE**
[72] NAGAOKA, KENTO, JP
[72] ONODERA, MIZUHO, JP
[72] YAMAMOTO, KOJI, JP
[72] HOKII, YUSUKE, JP
[72] AKIYAMA, SHIGENORI, JP
[71] GC CORPORATION, JP
[85] 2024-03-26
[86] 2022-08-24 (PCT/JP2022/031831)
[87] (WO2023/053789)
[30] JP (2021-162425) 2021-09-30

[21] **3,233,339**
[13] A1
[51] **Int.Cl. C04B 26/04 (2006.01) C08K 5/098 (2006.01)**
[25] EN
[54] **CURABLE RESIN COMPOSITION**
[54] **COMPOSITION DE RESINE DURCISSABLE**
[72] BALDWIN, JENNY MARGARET, GB
[72] MARTIN, IAN, GB
[72] GATRELL, MARK, GB
[72] EVANS, CRAIG EDWARD, GB
[72] LISKA, MARTIN, GB
[71] SIKA TECHNOLOGY AG, CH
[85] 2024-03-27
[86] 2022-11-17 (PCT/EP2022/082199)
[87] (WO2023/094248)
[30] EP (21210285.9) 2021-11-24

[21] **3,233,342**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01) C12N 15/63 (2006.01) C12N 15/67 (2006.01)**
[25] EN
[54] **ARTIFICIAL EXPRESSION CONSTRUCTS FOR MODULATING GENE EXPRESSION IN THE CEREBELLUM AND A SECONDARY CELL TYPE**
[54] **CONSTRUCTIONS D'EXPRESSION ARTIFICIELLES POUR MODULER L'EXPRESSION GENIQUE DANS LE CERVELET ET DANS UN TYPE DE CELLULE SECONDAIRE**
[72] DAIGLE, TANYA, US
[72] LEIN, EDWARD SEBASTIAN, US
[72] LEVI, BOAZ P., US
[72] TASIC, BOSILJKA, US
[72] TING, JONATHAN, US
[72] ZENG, HONGKUI, US
[72] MICH, JOHN K., US
[71] ALLEN INSTITUTE, US
[85] 2024-03-27
[86] 2022-10-05 (PCT/US2022/077586)
[87] (WO2023/060112)
[30] US (63/252,520) 2021-10-05

[21] **3,233,346**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) A61P 37/02 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **CELIAC DISEASE EPITOPES**
[54] **EPITOPES DE MALADIE C?LIAQUE**
[72] LOSET, GEIR AGE, NO
[71] NEXTERA AS, NO
[85] 2024-03-27
[86] 2022-09-28 (PCT/GB2022/052450)
[87] (WO2023/052759)
[30] GB (2113858.1) 2021-09-28

[21] **3,233,347**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/17 (2015.01) A61K 47/68 (2017.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) C12P 21/00 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **HUMANIZED ANTI-EGFRVIII ANTIBODIES AND ANTIGEN-BINDING FRAGMENTS THEREOF**
[54] **ANTICORPS ANTI-EGFRVIII HUMANISES ET FRAGMENTS DE LIAISON A L'ANTIGENE DE CEUX-CI**
[72] MARCIL, ANNE, CA
[72] SULEA, TRAIAN, CA
[72] MORENO, MARIA, CA
[72] WU, CUNLE, CA
[72] JARAMILLO, MARIA, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2024-03-27
[86] 2021-09-29 (PCT/IB2021/058954)
[87] (WO2023/052816)

[21] **3,233,348**
[13] A1
[51] **Int.Cl. E21B 7/128 (2006.01) E21B 23/06 (2006.01) E21B 33/134 (2006.01)**
[25] EN
[54] **A DRILL PIPE STRING CONVEYED BRIDGE PLUG RUNNING TOOL AND A METHOD FOR FORMING AND VERIFYING A CEMENT PLUG**
[54] **OUTIL DE POSE DE BOUCHON PROVISOIRE TRANSPORTE PAR TRAIN DE TIGES DE FORAGE ET PROCEDE DE FORMATION ET DE VERIFICATION DE BOUCHON DE CIMENT**
[72] GLINDA, HARALD HERABAKKA, NO
[72] STANGELAND, KIMMO ALEKSANTERI MIKALSEN, NO
[71] ARCHER OIL TOOLS AS, NO
[85] 2024-03-20
[86] 2022-09-26 (PCT/NO2022/050220)
[87] (WO2023/048579)
[30] NO (20211150) 2021-09-24

[21] **3,233,351**
[13] A1
[51] **Int.Cl. E04F 13/08 (2006.01)**
[25] EN
[54] **FAQADE PANEL FASTENING SYSTEM AND METHOD OF FASTENING A FAQADE PANEL TO A SUPPORT**
[54] **SYSTEME DE FIXATION DE PANNEAU DE FACADE ET PROCEDE DE FIXATION D'UN PANNEAU DE FACADE A UN SUPPORT**
[72] PLASCHKES, RAN, DE
[72] LINSENBOLZ, SEBASTIAN, AT
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-03-27
[86] 2022-11-15 (PCT/EP2022/081865)
[87] (WO2023/094201)
[30] EP (21210968.0) 2021-11-29

[21] **3,233,353**
[13] A1
[51] **Int.Cl. A01N 25/00 (2006.01) A01N 65/42 (2009.01) C05G 3/50 (2020.01) C05G 3/60 (2020.01) A01N 25/04 (2006.01) A01N 25/30 (2006.01) A01N 37/44 (2006.01) A01N 37/46 (2006.01) A01N 41/08 (2006.01) A01N 41/12 (2006.01) A01P 21/00 (2006.01) C05G 1/00 (2006.01)**
[25] EN
[54] **ORGANOSULFUR COMPOUNDS AS PLANT BIOSTIMULANTS**
[54] **COMPOSES ORGANOSOUFRES EN TANT QUE BIOSTIMULANTS DE PLANTES**
[72] DE BOER, LEX, NL
[72] GRIMBERGEN, ARD JAN, NL
[71] CROP HEALTH VISION B.V., NL
[71] AHV INTERNATIONAL B.V., NL
[85] 2024-03-27
[86] 2022-10-07 (PCT/NL2022/050576)
[87] (WO2023/059201)
[30] NL (PCT/NL2021/050610) 2021-10-08

[21] **3,233,355**
[13] A1
[51] **Int.Cl. G06F 16/906 (2019.01) G06Q 30/02 (2023.01) G06F 16/953 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING E-COMMERCE**
[54] **SYSTEME ET PROCEDE POUR AMELIORER LE COMMERCE ELECTRONIQUE**
[72] WU, ZHIYUAN, CA
[72] HE, JING, CA
[72] BULZAK, SEBASTIAN, CA
[72] REGALADO, SEBASTIAN, CA
[72] WILSON, RYAN, CA
[72] METWALY, MOHAMED, CA
[71] ADEPTMIND INC., CA
[85] 2024-03-27
[86] 2022-10-04 (PCT/CA2022/051468)
[87] (WO2023/056553)
[30] US (63/252,354) 2021-10-05

[21] **3,233,357**
[13] A1
[51] **Int.Cl. A61L 2/10 (2006.01) B01J 19/12 (2006.01)**
[25] EN
[54] **UV RADIATION SOURCE ASSEMBLY**
[54] **ENSEMBLE SOURCE DE RAYONNEMENT UV**
[72] FAY, PATRICK ALEXANDER, CA
[71] TROJAN TECHNOLOGIES GROUP ULC, CA
[85] 2024-03-27
[86] 2022-10-11 (PCT/IB2022/059749)
[87] (WO2023/062540)
[30] US (63/255,164) 2021-10-13
[30] US (17/752,157) 2022-05-24

[21] **3,233,359**
[13] A1
[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 70/00 (2020.01) B22F 10/20 (2021.01) B22F 10/36 (2021.01) C22C 1/10 (2023.01) C22C 19/05 (2006.01) B22F 10/37 (2021.01)**
[25] EN
[54] **HIGH PURITY NI -CR-W-MO-LA ALLOY FOR POWDER BASED ADDITIVE MANUFACTURING**
[54] **ALLIAGE NI-CR-W-MO-LA DE HAUTE PURETE POUR LA FABRICATION ADDITIVE A BASE DE POUDRE**
[72] LEE, DONGMYOUNG, US
[72] KUDAPA, SATYA N., US
[71] OERLIKON METCO (US), INC., US
[85] 2024-03-27
[86] 2022-11-04 (PCT/US2022/048994)
[87] (WO2023/081380)
[30] US (63/276,187) 2021-11-05

[21] **3,233,360**
[13] A1
[51] **Int.Cl. C02F 1/52 (2006.01)**
[25] EN
[54] **A METHOD AND APPARATUS FOR CONTROLLING A COAGULANT DOSAGE IN A WATER TREATMENT SYSTEM**
[54] **PROCEDE ET APPAREIL DE REGULATION DE DOSAGE DE COAGULANT DANS UN SYSTEME DE TRAITEMENT DES EAUX**
[72] TIKKALA, VESA-MATTI, FI
[72] JOENSUU, IIRIS, FI
[72] PIIRONEN, MARJATTA, FI
[72] LUHTALA, MARIA, FI
[71] KEMIRA OYJ, FI
[85] 2024-03-27
[86] 2022-09-26 (PCT/FI2022/050645)
[87] (WO2023/052681)
[30] FI (20216014) 2021-09-30

[21] **3,233,361**
[13] A1
[51] **Int.Cl. G01T 1/204 (2006.01)**
[25] EN
[54] **METHOD FOR PURIFICATION AND REMOVAL OF POTASSIUM FROM NONPOLAR AND SURFACTANT SOLUTIONS AND MIXTURES**
[54] **PROCEDE DE PURIFICATION ET D'ELIMINATION DE POTASSIUM DANS DES SOLUTIONS ET DES MELANGES NON POLAIRES ET TENSIOACTIFS**
[72] ARNQUIST, ISAAC J., US
[72] DI VACRI, MARIA LAURA, US
[72] ROCCO, NICOLE D., US
[72] FRENCH, AMANDA D., US
[71] BATTELLE MEMORIAL INSTITUTE, US
[85] 2024-03-27
[86] 2022-09-29 (PCT/US2022/045290)
[87] (WO2023/055975)
[30] US (63/249,900) 2021-09-29

[21] **3,233,362**
[13] A1
[51] **Int.Cl. E04B 2/96 (2006.01) E06B 3/58 (2006.01)**
[25] EN
[54] **CURTAIN WALL**
[54] **MUR-RIDEAU**
[72] CLAEYS, ERIC, BE
[71] CLAEYS, STEPHANIE CATHARINA R., BE
[71] CLAEYS, LAURENS LEONARD J., BE
[71] CLAEYS, NAUSIKAA ELS P., BE
[85] 2024-03-27
[86] 2022-10-03 (PCT/EP2022/077477)
[87] (WO2023/057395)
[30] EP (21200644.9) 2021-10-04

[21] **3,233,363**
[13] A1
[51] **Int.Cl. B22F 1/05 (2022.01) B33Y 10/00 (2015.01) C22C 1/05 (2006.01) C22C 19/00 (2006.01)**
[25] EN
[54] **CRACK-RESISTANT CO-NI-CR-W-LA ALLOY FOR POWDER-BASED ADDITIVE MANUFACTURING**
[54] **ALLIAGE DE CO-NI-CR-W-LA RESISTANT AUX FISSURES POUR LA FABRICATION ADDITIVE A BASE DE POUDRE**
[72] LEE, DONGMYOUNG, US
[72] KUDAPA, SATYA N., US
[71] OERLIKON METCO (US), INC., US
[85] 2024-03-27
[86] 2022-11-04 (PCT/US2022/048955)
[87] (WO2023/081353)
[30] US (63/276,191) 2021-11-05

[21] **3,233,366**
[13] A1
[51] **Int.Cl. A01M 1/22 (2006.01) A01M 21/04 (2006.01)**
[25] EN
[54] **AUTONOMOUS ROBOT PLATFORM FOR PEST IDENTIFICATION AND CONTROL**
[54] **PLATE-FORME ROBOTIQUE AUTONOME POUR L?IDENTIFICATION ET LA LUTTE CONTRE DES NUISIBLES**
[72] PEREIRA SCARPIN, TIAGO, BR
[72] PELEGRIN JAIME, DEULIS ANTONIO, BR
[72] GONZALEZ HERNANDEZ, RENE, BR
[72] PELEGRIN HERNANDEZ, ELIER, BR
[72] ZAYAS BARRERA, CARLOS MANUEL, BR
[72] NIE, JED, CN
[72] BOHLKE BARZ, FABIANO, BR
[71] TECSOIL AUTOMACAO E SISTEMAS S.A., BR
[85] 2024-03-27
[86] 2022-09-30 (PCT/BR2022/050385)
[87] (WO2023/049979)
[30] BR (BR1020210198168) 2021-10-01
[30] BR (1020220198209) 2022-09-30

[21] **3,233,367**
[13] A1
[51] **Int.Cl. A61K 31/35 (2006.01) A61K 47/54 (2017.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01)**
[25] EN
[54] **CANNABINOIDS C- AND O-GLYCOSIDES POSSESSING ANTI-PROLIFERATIVE AND ANTI-METASTATIC PROPERTIES AND PROCESS FOR PREPARATION THEREOF**
[54] **C- ET O-GLYCOSIDES DE CANNABINOIDES POSSEDANT DES PROPRIETES ANTI-PROLIFERATIVES ET ANTI-METASTATIQUES, ET PROCEDE DE PREPARATION ASSOCIE**
[72] GOSWAMI, ANINDYA, IN
[72] ALI, ASIF, IN
[72] CHAKRABORTY, SOUNEEK, IN
[72] MIR, BASHIR KHALID, IN
[72] GENNEDI, VEERANJANEYULU, TW
[72] LONE, IQBAL WASEEM, IN
[72] NALLI, YEDUKONDALU, IN
[71] COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, IN
[85] 2024-03-27
[86] 2022-09-27 (PCT/IN2022/050860)
[87] (WO2023/053134)
[30] IN (202111044828) 2021-10-01

[21] **3,233,368**
[13] A1
[51] **Int.Cl. C12N 9/12 (2006.01) C12Q 1/6844 (2018.01) C12Q 1/686 (2018.01) C12P 19/34 (2006.01)**
[25] EN
[54] **POLYMERASE VARIANTS FOR TEMPLATE-INDEPENDENT ENZYMATIC NUCLEIC ACIDS SYNTHESIS AND KIT COMPRISING THE SAME**
[54] **VARIANTS DE POLYMERASE POUR LA SYNTHESE D'ACIDES NUCLEIQUES ENZYMATIQUES INDEPENDANTE DE LA MATRICE ET KIT LES COMPRENANT**
[72] CHEN, CHENG-YAO, TW
[72] CHENG, YI-WEN, TW
[72] WU, TSU-YING, TW
[72] HUNG, YU-TING, TW
[72] CHEN, WEN-TING, TW
[71] CHEN, CHENG-YAO, TW
[85] 2024-03-27
[86] 2022-09-29 (PCT/US2022/077309)
[87] (WO2023/056394)
[30] US (63/249,819) 2021-09-29

[21] **3,233,371**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01)**
[25] EN
[54] **APPARATUS FOR LOCALIZING SINGLE FLUORESCENT MOLECULES COMPRISED IN A SAMPLE USING SINGLE MOLECULE LOCALIZATION MICROSCOPY**
[54] **APPAREIL DE LOCALISATION DE MOLECULES FLUORESCENTES UNIQUES COMPRISES DANS UN ECHANTILLON A L'AIDE D'UNE MICROSCOPIE DE LOCALISATION MONOMOLECULAIRE**
[72] BOURG, NICOLAS, FR
[72] CAORSI, VALENTINA, FR
[71] ABBELIGHT, FR
[85] 2024-03-27
[86] 2022-09-28 (PCT/EP2022/076901)
[87] (WO2023/052384)
[30] EP (21306377.9) 2021-10-01

[21] **3,233,372**
[13] A1
[51] **Int.Cl. C12N 5/0735 (2010.01) C12N 5/074 (2010.01) C12Q 1/04 (2006.01) G01N 21/64 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR LABEL-FREE TRACKING OF HUMAN SOMATIC CELL REPROGRAMMING**
[54] **SYSTEMES ET PROCEDES POUR LE SUIVI SANS MARQUEUR DE LA REPROGRAMMATION DE CELLULES SOMATIQUES HUMAINES**
[72] SKALA, MELISSA C., US
[72] MOLUGU, KAIVALYA, US
[72] SAHA, KRISHANU, US
[71] WISCONSIN ALUMNI RESEARCH FOUNDATION, US
[85] 2024-03-26
[86] 2022-10-18 (PCT/US2022/046948)
[87] (WO2023/069386)
[30] US (63/257,034) 2021-10-18

[21] **3,233,373**
[13] A1
[51] **Int.Cl. B01J 27/02 (2006.01) B01J 27/00 (2006.01) C07C 407/00 (2006.01) C07C 409/00 (2006.01) C07C 409/24 (2006.01) C07C 409/26 (2006.01) C09C 1/00 (2006.01) C09C 1/02 (2006.01) C09C 3/00 (2006.01)**
[25] EN
[54] **APPLICATION OF PERFORMIC ACID (PFA) FOR MINERAL PROCESSING**
[54] **APPLICATION D'ACIDE PERFORMIQUE (PFA) POUR TRAITEMENT MINERAL**
[72] STRICKLAND, FORREST, US
[72] PORAT, IRIS, US
[72] PALAEZ, MIGUEL, US
[72] HILL, CHRIS, US
[71] KEMIRA OYJ, FI
[85] 2024-03-27
[86] 2022-10-13 (PCT/US2022/078008)
[87] (WO2023/064834)
[30] US (63/255,198) 2021-10-13

[21] **3,233,374**
[13] A1
[51] **Int.Cl. E02B 15/04 (2006.01)**
[25] EN
[54] **PARAVANE FOR A BARRIER TOWED BY A VESSEL**
[54] **PARAVANE POUR BARRIERE REMORQUEE PAR UN NAVIRE**
[72] NILSEN, DAG HJALMAR, NO
[72] OLSEN, ERLEND JARL, NO
[72] PEDERSEN, BIRGIT, NO
[71] NOFI AS, NO
[85] 2024-03-27
[86] 2022-09-19 (PCT/EP2022/075927)
[87] (WO2023/066578)
[30] NO (20211249) 2021-10-18

[21] **3,233,375**
[13] A1
[51] **Int.Cl. A23G 4/00 (2006.01) A24B 15/16 (2020.01) A61K 9/00 (2006.01)**
[25] EN
[54] **ORAL PRODUCT WITH A BASIC AMINE AND AN ION PAIRING AGENT**
[54] **PRODUIT ORAL COMPRENANT UNE AMINE BASIQUE ET UN AGENT D'APPARIEMENT D'IONS**
[72] ZAWADZKI, MICHAEL, US
[72] TANG, KAI, GB
[72] ALDERMAN, STEVEN LEE, GB
[72] POOLE, THOMAS H., GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-27
[86] 2022-09-29 (PCT/IB2022/059305)
[87] (WO2023/053062)
[30] US (63/250,631) 2021-09-30

[21] **3,233,376**
[13] A1
[51] **Int.Cl. B63B 27/34 (2006.01)**
[25] EN
[54] **A TRANSFER SYSTEM FOR TRANSFERRING A MEDIUM BETWEEN FACILITIES**
[54] **SYSTEME DE TRANSFERT SERVANT A TRANSFERER UN MILIEU ENTRE DES INSTALLATIONS**
[72] TUNESTVEIT MAGNUSSON, STIAN, NO
[71] ECONNECT ENERGY AS, NO
[85] 2024-03-27
[86] 2022-10-14 (PCT/EP2022/078683)
[87] (WO2023/062206)
[30] NO (20211245) 2021-10-14

[21] **3,233,377**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **PROTEINS BINDING NKG2D, CD16 AND BAFF-R**
[54] **PROTEINES LIANT NKG2D, CD16 ET BAFF-R**
[72] BELLI, AARON, US
[72] CHEUNG, ANN F., US
[72] DRABIC, STACEY V., US
[72] FALLON, DANIEL, US
[72] FISCHER, BENJAMIN, US
[72] GRINBERG, ASYA, US
[72] HEIN, PYAE P., US
[72] IVANOV, ALEXANDER, US
[72] JUO, ZONG SEAN, TW
[72] LEWANDOWSKI, MARK, US
[72] LI, XINBI, US
[72] SCHNEIDER, MATTHEW, US
[71] DRAGONFLY THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/077083)
[87] (WO2023/056252)
[30] US (63/250,160) 2021-09-29

[21] **3,233,378**
[13] A1
[51] **Int.Cl. B65G 21/10 (2006.01)**
[25] EN
[54] **BELT CONVEYOR DEVICE FOR LUMPY PRODUCTS AND DEVICE AND METHOD FOR REMOVING PRODUCTS FROM A PRODUCT FLOW**
[54] **DISPOSITIF TRANSPORTEUR A COURROIE POUR PRODUITS EN MORCEAUX ET DISPOSITIF ET PROCEDE DE RETRAIT DE PRODUITS D'UN FLUX DE PRODUITS**
[72] SCHUBERTH, MICHAEL, DE
[72] SCHMID, RUPERT, DE
[71] LOESCH VERPACKUNGSTECHNIK GMBH + CO. KG, DE
[85] 2024-03-27
[86] 2022-05-20 (PCT/EP2022/063719)
[87] (WO2023/222236)

[21] **3,233,380**
[13] A1
[51] **Int.Cl. A61P 37/02 (2006.01) C07K 14/54 (2006.01) C07K 14/55 (2006.01) C07K 14/555 (2006.01) C07K 14/705 (2006.01) C07K 14/72 (2006.01) C07K 14/725 (2006.01) C12N 9/06 (2006.01) C12N 9/88 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND SYSTEMS FOR REGULATION OF FUNCTION/ABUNDANCE AND DELIVERY OF POLYPEPTIDE PAYLOADS**
[54] **COMPOSITIONS ET SYSTEMES POUR LA REGULATION DE LA FONCTION/ABONDANCE ET DE L'ADMINISTRATION DE CHARGES UTILES POLYPEPTIDIQUES**
[72] SETHI, DHRUV, US
[72] SMITH, SEAN, US
[72] OLS, MICHELLE, US
[72] SUN, DEXUE, US
[72] LI, DAN JUN, US
[72] TER MEULEN, JAN, US
[72] SCHEBESTA, MICHAEL, US
[71] OBSIDIAN THERAPEUTICS, INC., US
[85] 2024-03-27
[86] 2022-10-18 (PCT/US2022/046998)
[87] (WO2023/069418)
[30] US (63/262,646) 2021-10-18
[30] US (63/342,443) 2022-05-16

[21] **3,233,381**
[13] A1
[51] **Int.Cl. B65D 81/09 (2006.01) B63B 25/24 (2006.01)**
[25] EN
[54] **DUNNAGE PRODUCTION SYSTEM**
[54] **SYSTEME DE PRODUCTION DE FARDAGE**
[72] COOPER, CLAYTON, US
[71] COOPER, CLAYTON, US
[85] 2024-03-27
[86] 2022-09-30 (PCT/US2022/045452)
[87] (WO2023/056062)
[30] US (63/251,257) 2021-10-01

[21] **3,233,382**
[13] A1
[51] **Int.Cl. C08J 9/26 (2006.01)**
[25] EN
[54] **POLYOLEFIN FILM AND METHOD FOR MANUFACTURING POLYOLEFIN FILM**
[54] **FILM DE POLYOLEFINE ET PROCEDE DE PRODUCTION DE FILM DE POLYOLEFINE**
[72] KAWAGUCHI, RYOMA, JP
[71] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2024-03-27
[86] 2022-09-29 (PCT/JP2022/036587)
[87] (WO2023/054642)
[30] JP (2021-159432) 2021-09-29

[21] **3,233,383**
[13] A1
[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 31/437 (2006.01) A61K 45/06 (2006.01) A61P 17/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **BENZIMIDAZOLE DERIVATIVES FOR USE IN THE TREATMENT OR PREVENTION OF A HISTIOCYTOSIS OR A CRANIOPHARYNGIOMA**
[54] **DERIVES DE BENZIMIDAZOLE DESTINES A ETRE UTILISES DANS LE TRAITEMENT OU LA PREVENTION D'UNE HISTIOCYTOSE OU D'UN CRANIOPHARYNGIOME**
[72] OTTEN, LUC, CH
[72] RENNO, TOUFIC, FR
[72] COSTE-INVERNIZZI, ISABELLE, FR
[72] GIRAUD, STEPHANE, FR
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR
[71] UNIVERSITE CLAUDE BERNARD LYON I, FR
[71] HOSPICES CIVILS DE LYON, FR
[71] CENTRE LEON BERARD, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[85] 2024-03-27
[86] 2022-10-07 (PCT/EP2022/077910)
[87] (WO2023/057613)
[30] EP (21306418.1) 2021-10-08

[21] **3,233,384**
[13] A1
[51] **Int.Cl. C09J 7/24 (2018.01) E04B 1/66 (2006.01) E05D 5/06 (2006.01)**
[25] EN
[54] **SELF-ADHERING SEALING ELEMENT**
[54] **ELEMENT D'ETANCHEITE AUTO-ADHERENT**
[72] HAUFE, MARKUS, CH
[72] GUT, CYRILL, CH
[72] BUCHER, RAMON, CH
[72] LUSSI, JOSEF, CH
[72] WALLIMANN, HELENA, CH
[72] SCHOENBRODT, SIMON, CH
[71] SIKA TECHNOLOGY AG, CH
[85] 2024-03-27
[86] 2022-11-14 (PCT/EP2022/081751)
[87] (WO2023/088833)
[30] EP (21209675.4) 2021-11-22

[21] **3,233,385**
[13] A1
[51] **Int.Cl. B65D 90/62 (2006.01)**
[25] EN
[54] **DOOR RELEASE MECHANISM FOR A CONTAINER SYSTEM**
[54] **MECANISME DE LIBERATION DE PORTE POUR UN SYSTEME DE RECIPIENT**
[72] DALE, CHARLIE, GB
[72] GODFREY, STEPHEN, GB
[71] CONQUIP ENGINEERING GROUP, GB
[85] 2024-03-27
[86] 2022-10-13 (PCT/GB2022/052613)
[87] (WO2023/062381)
[30] GB (2114651.9) 2021-10-13

[21] **3,233,386**
[13] A1
[51] **Int.Cl. B62D 55/28 (2006.01)**
[25] EN
[54] **TRACK SHOE ASSEMBLY INCLUDING A SHOE PLATE AND A GROUSER AND RELATED METHOD OF MANUFACTURE**
[54] **ENSEMBLE PATIN DE CHENILLE COMPRENANT UNE PLAQUE DE PATIN ET UN CRAMPON, ET PROCEDE DE FABRICATION ASSOCIE**
[72] JOHANNSEN, ERIC J., US
[72] STEINER, KEVIN L., US
[72] SEBRIGHT, JASON L., US
[72] CLARKE, DONOVAN S., US
[71] CATERPILLAR INC., US
[85] 2024-03-27
[86] 2022-09-27 (PCT/US2022/044871)
[87] (WO2023/059479)
[30] US (17/492,861) 2021-10-04

[21] **3,233,387**
[13] A1
[51] **Int.Cl. C07H 19/207 (2006.01) A61K 31/7042 (2006.01) A61K 31/7048 (2006.01) A61K 31/7052 (2006.01) A61K 31/7056 (2006.01) A61K 31/7064 (2006.01) A61K 31/7072 (2006.01) A61K 31/7076 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07H 7/06 (2006.01) C07H 11/04 (2006.01) C07H 19/056 (2006.01) C07H 19/10 (2006.01)**
[25] EN
[54] **NUCLEOSIDE-DIPHOSPHATE-HEPTOSE COMPOUNDS FOR TREATING CONDITIONS ASSOCIATED WITH ALPK1 ACTIVITY**
[54] **COMPOSES DE NUCLEOSIDE-DIPHOSPHATE-HEPTOSE POUR TRAITER DES ETATS ASSOCIES A L'ACTIVITE DE L'ALPK1**
[72] DU, NANA, CN
[72] O'YANG, COUNDE, US
[72] WANG, HEXIANG, CN
[72] LI, ZHIHONG, US
[71] PYROTECH (BEIJING) BIOTECHNOLOGY CO., LTD., CN
[85] 2024-03-27
[86] 2022-09-29 (PCT/CN2022/122516)
[87] (WO2023/051675)
[30] CN (PCT/CN2021/122250) 2021-09-30
[30] CN (PCT/CN2021/138786) 2021-12-16
[30] CN (PCT/CN2022/099495) 2022-06-17
[30] CN (PCT/CN2022/118981) 2022-09-15

[21] **3,233,388**
[13] A1
[51] **Int.Cl. B62D 49/00 (2006.01) G01C 21/12 (2006.01) G01S 13/87 (2006.01)**
[25] EN
[54] **REAR AXLE CENTER LOCATING**
[54] **LOCALISATION DE CENTRE D'ESSIEU ARRIERE**
[72] GATTEN, BENJAMIN M., US
[71] ZIMENO, INC. DBA MONARCH TRACTOR, US
[85] 2024-03-27
[86] 2021-09-29 (PCT/US2021/052652)
[87] (WO2023/055359)

[21] **3,233,389**
[13] A1
[51] **Int.Cl. A23G 4/00 (2006.01) A24B 15/16 (2020.01) A61K 9/00 (2006.01)**
[25] EN
[54] **ORAL GUM COMPOSITION**
[54] **COMPOSITION DE GOMME ORALE**
[72] VON COSMOS, NICOLAS H., US
[72] ALDERMAN, STEVEN LEE, GB
[72] ZAWADZKI, MICHAEL, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-27
[86] 2022-09-29 (PCT/IB2022/059303)
[87] (WO2023/053060)
[30] US (63/250,619) 2021-09-30
[30] US (63/333,729) 2022-04-22

[21] **3,233,390**
[13] A1
[51] **Int.Cl. B62D 49/00 (2006.01) G01C 21/12 (2006.01) G01S 13/87 (2006.01)**
[25] EN
[54] **TRACTOR PARAMETER CALIBRATION**
[54] **ETALONNAGE DE PARAMETRE DE TRACTEUR**
[72] GATTEN, BENJAMIN M., US
[72] WOODSON, RILEY C., US
[71] ZIMENO, INC. DBA MONARCH TRACTOR, US
[85] 2024-03-27
[86] 2021-09-29 (PCT/US2021/052738)
[87] (WO2023/055362)

[21] **3,233,391**
[13] A1
[51] **Int.Cl. H01M 50/333 (2021.01) H01M 50/249 (2021.01) H01M 50/383 (2021.01)**
[25] EN
[54] **BATTERY MODULE**
[54] **MODULE DE BATTERIE**
[72] PARK, SU-BIN, KR
[72] KIM, KWANG-MO, KR
[72] SEONG, JUN-YEOB, KR
[72] JUNG, HYE-MI, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-27
[86] 2022-12-23 (PCT/KR2022/021254)
[87] (WO2023/121418)
[30] KR (10-2021-0187372) 2021-12-24

[21] **3,233,392**
[13] A1
[51] **Int.Cl. G06F 8/76 (2018.01)**
[25] EN
[54] **AUTOMATED MODIFICATION OF COMPUTER PROGRAMS**
[54] **MODIFICATION AUTOMATISEE DE PROGRAMMES INFORMATIQUES**
[72] JOYCE, JOHN, US
[72] ISMAN, MARSHALL A., US
[72] BACH, EDWARD ALAN, US
[71] AB INITIO TECHNOLOGY LLC, US
[85] 2024-03-27
[86] 2022-10-06 (PCT/US2022/077666)
[87] (WO2023/060170)
[30] US (63/253,851) 2021-10-08
[30] US (17/704,469) 2022-03-25

[21] **3,233,393**
[13] A1
[51] **Int.Cl. A01B 63/02 (2006.01) G06V 10/77 (2022.01) G08G 1/16 (2006.01) B60W 30/08 (2012.01)**
[25] EN
[54] **OBSTRUCTION AVOIDANCE**
[54] **EVITEMENT D'OBSTRUCTION**
[72] KARISHETTI, DEEPAK RAJASEKHAR, US
[72] GOYAL, SANKET, US
[71] ZIMENO, INC. DBA MONARCH TRACTOR, US
[85] 2024-03-27
[86] 2021-09-30 (PCT/US2021/052780)
[87] (WO2023/055366)

[21] **3,233,394**
[13] A1
[51] **Int.Cl. A23J 3/14 (2006.01) A23J 3/22 (2006.01) C07K 14/805 (2006.01) C08K 5/00 (2006.01)**
[25] EN
[54] **STABILIZED HEMEPROTEIN COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS D'HEMEPROTEINE STABILISEES ET LEURS PROCEDES D'UTILISATION**
[72] CHUNG, CHERYL, US
[72] BAIER, STEFAN K., US
[72] MCCLEMENTS, DAVID, US
[72] DECKER, ERIC, US
[71] MOTIF FOODWORKS, INC., US
[85] 2024-03-27
[86] 2022-10-25 (PCT/US2022/047771)
[87] (WO2023/076307)
[30] US (63/271,423) 2021-10-25

[21] **3,233,395**
[13] A1
[51] **Int.Cl. B65D 5/54 (2006.01) B65D 5/66 (2006.01)**
[25] EN
[54] **TAMPER INDICATING PACKAGE**
[54] **EMBALLAGE INVIOLABLE**
[72] HODGES, PAUL, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-27
[86] 2022-09-29 (PCT/GB2022/052463)
[87] (WO2023/052767)
[30] GB (2114001.7) 2021-09-30

[21] **3,233,396**
[13] A1
[51] **Int.Cl. A62C 2/06 (2006.01) A62C 3/07 (2006.01) A62C 8/06 (2006.01)**
[25] EN
[54] **DEVICE FOR CONSTRAINING A VEHICLE FIRE**
[54] **DISPOSITIF DE LIMITATION D'INCENDIE DE VEHICULE**
[72] JOKINEN, TIMO, FI
[71] FIREAIDBOX OY, FI
[85] 2024-03-27
[86] 2022-09-30 (PCT/FI2022/050652)
[87] (WO2023/052687)
[30] FI (20216013) 2021-09-30

[21] **3,233,397**
[13] A1
[51] **Int.Cl. C07K 14/495 (2006.01)**
[25] EN
[54] **MODULATORS OF MESOTHELIAL ECM MOVEMENT**
[54] **MODULATEURS DU MOUVEMENT ECM MESOTHELIAL**
[72] FISCHER, ADRIAN, DE
[72] MUCK-HAUSL, MARTIN, DE
[72] RINKEVICH, YUVAL, DE
[72] KADRI, SAFOUANE, DE
[71] HELMHOLTZ ZENTRUM MUENCHEN - DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT (GMBH), DE
[85] 2024-03-27
[86] 2022-11-07 (PCT/EP2022/080892)
[87] (WO2023/079127)
[30] EP (21206688.0) 2021-11-05

[21] **3,233,398**
[13] A1
[51] **Int.Cl. C07D 475/04 (2006.01) A61K 31/435 (2006.01) A61K 31/437 (2006.01) A61K 31/495 (2006.01) A61K 31/4985 (2006.01) A61K 31/505 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) C07D 403/14 (2006.01) C07D 409/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF ONCOGENIC CHD1L WITH PRECLINICAL ACTIVITY AGAINST COLORECTAL CANCER**
[54] **INHIBITEURS A PETITES MOLECULES DE CHD1L ONCOGENES PRESENTANT UNE ACTIVITE PRECLINIQUE CONTRE LE CANCER COLORECTAL**
[72] LABARBERA, DANIEL V., US
[72] ABBOTT, JOSHUA M., US
[72] ZHOU, QIONG, US
[72] ESQUER, HECTOR, US
[72] PRIGARO, BRETT JOSEPH, US
[72] AWOLADE, PAUL, US
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[85] 2024-03-27
[86] 2022-09-28 (PCT/US2022/044974)
[87] (WO2023/055763)
[30] US (63/250,803) 2021-09-30
[30] US (17/953,221) 2022-09-26

[21] **3,233,399**
[13] A1
[51] **Int.Cl. H01M 8/021 (2016.01) H01M 8/0228 (2016.01) H01M 8/026 (2016.01) H01M 8/0265 (2016.01) H01M 8/2432 (2016.01) H01M 8/2483 (2016.01) H01M 8/2484 (2016.01) C25B 1/042 (2021.01) C25B 9/75 (2021.01) C25B 9/77 (2021.01) H01M 8/12 (2016.01)**
[25] FR
[54] **INTERCONNECTOR FOR A STACK OF SOLID SOEC/SOFC-TYPE OXIDE CELLS HAVING TABS WITH OPTIMISED GEOMETRY**
[54] **INTERCONNECTEUR POUR EMPILEMENT DE CELLULES A OXYDES SOLIDES DE TYPE SOEC/SOFC COMPORTANT DES LANGUETTES DE GEOMETRIE OPTIMISEE**
[72] DI IORIO, STEPHANE, FR
[72] ELIE, MANON, FR
[72] SZYNAL, PHILIPPE, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-03-27
[86] 2022-09-27 (PCT/FR2022/051815)
[87] (WO2023/052722)
[30] FR (FR2110285) 2021-09-29

[21] **3,233,400**
[13] A1
[51] **Int.Cl. B25H 1/16 (2006.01)**
[25] EN
[54] **A WORKSTATION WITH MODULAR CONSTRUCTION**
[54] **POSTE DE TRAVAIL A CONSTRUCTION MODULAIRE**
[72] MENSING, JEFFREY RANDALL, US
[72] DUNN, JONATHAN NORTHCUTT, US
[72] LUCAS, JAMES ROBERT, US
[72] BROSNAN, MEGAN T., US
[71] ERGOTRON, INC., US
[85] 2024-03-27
[86] 2022-08-25 (PCT/US2022/075464)
[87] (WO2023/056144)
[30] US (63/250,780) 2021-09-30

[21] **3,233,402**
[13] A1
[51] **Int.Cl. H01M 50/204 (2021.01) H01M 50/249 (2021.01) H01M 50/284 (2021.01) H01M 50/51 (2021.01) H01M 50/519 (2021.01) H01M 50/569 (2021.01)**
[25] EN
[54] **CELL UNIT, BATTERY, AND VEHICLE**
[54] **UNITE DE CELLULE, BATTERIE ET VEHICULE**
[72] GUO, YONGMING, CN
[72] LANG, XIAOQIANG, CN
[72] CHEN, WEI, CN
[72] ZHOU, YANFEI, CN
[72] CHEN, YAOLEI, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-27
[86] 2022-11-17 (PCT/CN2022/132611)
[87] (WO2023/093615)
[30] CN (202122903216.7) 2021-11-24

[21] **3,233,403**
[13] A1
[51] **Int.Cl. G06Q 40/04 (2012.01)**
[25] EN
[54] **METHOD FOR IDENTIFYING K-LINE FORM AND ELECTRONIC DEVICE**
[54] **PROCEDE D'IDENTIFICATION DU FORMULAIRE LIGNE K ET DISPOSITIF ELECTRONIQUE**
[72] XIE, XIN, CN
[72] PEI, ZHENG, CN
[72] HU, JINHUI, CN
[71] FUTU NETWORK TECHNOLOGY (SHENZHEN) CO., LTD., CN
[85] 2024-03-27
[86] 2021-09-30 (PCT/CN2021/122220)
[87] (WO2023/050331)

[21] **3,233,404**
[13] A1
[51] **Int.Cl. A61B 6/08 (2006.01) A61N 5/10 (2006.01)**
[25] EN
[54] **QUALITY ASSURANCE SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ASSURANCE QUALITE**
[72] MOLLOY, JANELLE A., US
[72] PALMIERO, ALLISON, US
[72] VISAK, JUSTIN, US
[71] UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, US
[85] 2024-03-28
[86] 2022-09-29 (PCT/US2022/045136)
[87] (WO2023/055870)
[30] US (63/249,657) 2021-09-29
[30] US (63/251,278) 2021-10-01

[21] **3,233,405**
[13] A1
[51] **Int.Cl. A01D 75/28 (2006.01) A01D 34/63 (2006.01)**
[25] EN
[54] **LAWN MOWERS HAVING AUTOSENSING MODULES**
[54] **TONDEUSES A GAZON DOTEES DE MODULES DE DETECTION AUTOMATIQUE**
[72] CHENG, SAMUEL, CA
[72] PIOTROWSKI, TOMASZ, CA
[72] KOYA, ABDUL HALEEM AHAMED, CA
[71] CANADIAN TIRE CORPORATION, LIMITED, CA
[85] 2024-02-29
[86] 2022-09-14 (PCT/CA2022/051367)
[87] (WO2023/039664)
[30] US (63/244,515) 2021-09-15

[21] **3,233,406**
[13] A1
[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/315 (2006.01) A61M 5/32 (2006.01) A61M 5/24 (2006.01)**
[25] EN
[54] **IMPACT ACTIVATED RETENTION FEATURE FOR DRUG DELIVERY DEVICE**
[54] **ELEMENT DE RETENUE ACTIVE PAR IMPACT POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] SPORK, EMIL GRAM, US
[72] MELANDER, MATIAS, US
[72] GEGELASHVILI, ALEXANDRE, US
[72] SONG, YANGKUN, US
[72] SONDERBY, THOMAS PETER, US
[71] AMGEN INC., US
[85] 2024-03-26
[86] 2022-10-05 (PCT/US2022/045716)
[87] (WO2023/059671)
[30] US (63/252,940) 2021-10-06

[21] **3,233,407**
[13] A1
[51] **Int.Cl. B21D 51/26 (2006.01) B21D 22/30 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FORMING A DOUBLE DOME CONTAINER**
[54] **SYSTEMES ET PROCEDES DE FORMAGE D'UN RECIPIENT A DOUBLE DOME**
[72] PARK, JAESUK, US
[72] SHI, YIHAI, CA
[72] HEGADEKATTE, VISHWANATH, US
[72] JURENDIC, SEBASTIJAN, US
[71] NOVELIS INC., US
[85] 2024-03-26
[86] 2022-07-07 (PCT/US2022/073494)
[87] (WO2023/056114)
[30] US (63/250,806) 2021-09-30

[21] **3,233,408**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **IMIDAZOPYRIDAZINE IL-17 INHIBITOR COMPOUNDS**
[54] **COMPOSES INHIBITEURS DE L'IL-17 TELS QUE L'IMIDAZOPYRIDAZINE**
[72] GORDON, DEANE, US
[72] LOSKOT, STEVEN A., US
[72] MCCARVER, STEFAN, US
[72] MEDUNA, STEVEN P., US
[72] RHORER, TIMOTHY B., US
[72] SONG, KRISTEN, US
[72] VALDES, ALEXANDER E., US
[72] WU, DONGPEI, US
[72] XUE, XIAOHUA, US
[72] HANNA, LUKE E., US
[72] BEHENNA, DOUGLAS C., US
[72] GOLDBERG, STEVEN D., US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/077001)
[87] (WO2023/049887)
[30] US (63/248,566) 2021-09-27
[30] US (63/273,422) 2021-10-29
[30] US (63/367,546) 2022-07-01

[21] **3,233,409**
[13] A1
[51] **Int.Cl. A61K 31/4166 (2006.01) A61K 9/107 (2006.01) A61K 47/14 (2017.01) A61K 47/22 (2006.01) A61K 47/44 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ORAL LIQUID ENZALUTAMIDE COMPOSITIONS**
[54] **COMPOSITIONS ORALES LIQUIDES A BASE D'ENZALUTAMIDE**
[72] PADHI, BIJAYKUMAR, IN
[72] BIRADAR, SHAILESH VISHWANATH, IN
[72] SONGA, AMBEDKAR SUNIL, IN
[71] FERRING B.V., NL
[85] 2024-03-26
[86] 2022-09-30 (PCT/IB2022/059345)
[87] (WO2023/053084)
[30] IN (202111044703) 2021-10-01

[21] **3,233,410**
[13] A1
[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 31/4192 (2006.01) A61K 31/4196 (2006.01) A61K 31/4245 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 29/00 (2006.01) C07D 235/14 (2006.01) C07D 403/12 (2006.01) C07D 405/14 (2006.01) C07D 409/12 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/12 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **BENZIMIDAZOLES AS MODULATORS OF IL-17**
[54] **BENZIMIDAZOLES UTILISES EN TANT QUE MODULATEURS D'IL-17**
[72] DECKHUT, CHARLOTTE POOLEY, US
[72] BEHENNA, DOUGLAS C., US
[72] BEMBENEK, SCOTT, US
[72] GOLDBERG, STEVEN D., US
[72] JACKSON, PAUL F., US
[72] KEITH, JOHN, US
[72] LOSKOT, STEVEN A., US
[72] MARTIN, CONNOR, US
[72] MCCARVER, STEFAN, US
[72] MEDUNA, STEVEN P., US
[72] RHORER, TIMOTHY B., US
[72] SHIH, AMY Y., US
[72] TANIS, VIRGINIA M., US
[72] WOODS, CRAIG R., US
[72] XUE, XIAOHUA, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-03-26
[86] 2022-09-26 (PCT/US2022/077003)
[87] (WO2023/049888)
[30] US (63/248,569) 2021-09-27

[21] **3,233,411**
[13] A1
[51] **Int.Cl. A23L 2/385 (2006.01)**
[25] EN
[54] **A PROCESS FOR PREPARING A BEVERAGE ENRICHED WITH NATURAL ANTIOXIDANTS AND BEVERAGE COMPOSITION THEREOF**
[54] **PROCEDE POUR PREPARER UNE BOISSON ENRICHIE EN ANTIOXYDANTS NATURELS ET COMPOSITION DE BOISSON ASSOCIEE**
[72] WIDYARATNE, SANJEEWA, US
[72] WICKRAMASURIYA, ANGELO, LK
[72] PETHTHAWADU, THIJEE PASAN, LK
[71] WIDYARATNE, SANJEEWA, US
[71] WICKRAMASURIYA, ANGELO, LK
[71] PETHTHAWADU, THIJEE PASAN, LK
[85] 2024-03-28
[86] 2022-09-28 (PCT/US2022/077153)
[87] (WO2023/056279)
[30] US (63/249,222) 2021-09-28

[21] **3,233,412**
[13] A1
[51] **Int.Cl. A23L 27/26 (2016.01) A23D 9/00 (2006.01)**
[25] EN
[54] **AGENT FOR IMPARTING ANIMAL-FAT CONSISTENCY, OIL AND FAT COMPOSITION FOR IMPARTING ANIMAL-FAT CONSISTENCY, METHOD FOR IMPARTING ANIMAL-FAT CONSISTENCY, METHOD FOR PRODUCING AGENT FOR IMPARTING ANIMAL-FAT CONSISTENCY, AND FOOD PRODUCT TO WHICH ANIMAL-FAT CONSISTENCY IS IMPARTED**
[54] **AGENT CONFERANT UNE SENSATION DE MATIERE GRASSE ANIMALE, COMPOSITION D'HUILE ET DE MATIERE GRASSE POUR CONFERER UNE SENSATION DE MATIERE GRASSE ANIMALE, PROCEDE DE PRODUCTION D'UN AGENT CONFERANT UNE SENSATION DE MATIERE GRASSE ANIMALE, ET PRODUIT ALIMENTAIRE AUQUEL LA SENSATION DE MATIERE GRASSE ANIMALE EST CONFEREE**
[72] NISHIWAKI, MIKA, JP
[72] MOTOIKE, CHIE, JP
[72] NARA, YOSHIKO, JP
[72] FUJII, HISAMICHI, JP
[71] J-OIL MILLS, INC., JP
[85] 2024-03-26
[86] 2022-12-07 (PCT/JP2022/045067)
[87] (WO2023/112790)
[30] JP (2021-204194) 2021-12-16

[21] **3,233,413**
[13] A1
[51] **Int.Cl. C12N 7/04 (2006.01) C12N 15/113 (2010.01) A61K 31/7125 (2006.01) A61P 31/20 (2006.01) C07K 14/005 (2006.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING HEPATITIS B VIRUS INFECTION**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT D'UNE INFECTION PAR LE VIRUS DE L'HEPATITE B**
[72] SMEKALOVA, ELENA, US
[72] BARRERA, LUIS, US
[72] ZOULIM, FABIEN, FR
[72] MARTINEZ, MARIA GUADALUPE, FR
[72] TESTONI, BARBARA, FR
[71] BEAM THERAPEUTICS INC., US
[71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE (INSERM), FR
[71] ZOULIM, FABIEN, FR
[71] MARTINEZ, MARIA GUADALUPE, FR
[71] TESTONI, BARBARA, FR
[85] 2024-03-26
[86] 2022-09-27 (PCT/US2022/077105)
[87] (WO2023/049935)
[30] US (63/248,938) 2021-09-27
[30] US (63/357,623) 2022-06-30
[30] US (63/371,634) 2022-08-16

[21] **3,233,414**
[13] A1
[51] **Int.Cl. B01J 13/14 (2006.01)**
[25] EN
[54] **HYDROGEL MICROSTRUCTURE ARRAYS, METHODS OF MAKING AND USES THEREOF**
[54] **RESEAUX DE MICROSTRUCTURES D'HYDROGEL, LEURS PROCEDES DE FABRICATION ET LEURS UTILISATIONS**
[72] HOSSEINIDOUST, ZEINAB, CA
[72] TIAN, LEI, CA
[71] MCMASTER UNIVERSITY, CA
[85] 2024-03-26
[86] 2022-09-29 (PCT/CA2022/051452)
[87] (WO2023/050011)
[30] US (63/261,803) 2021-09-29

[21] **3,233,415**
[13] A1
[51] **Int.Cl. H05B 3/42 (2006.01)**
[25] EN
[54] **MULTIPLE CYLINDER**
[54] **CYLINDRES MULTIPLES**
[72] KOCHENDOERFER, KIARA AENNE, DE
[72] SHUSTOV, ANDREY, DE
[72] JENNE, ERIC, DE
[71] BASF SE, DE
[71] LINDE GMBH, DE
[85] 2024-03-26
[86] 2022-09-26 (PCT/EP2022/076624)
[87] (WO2023/046943)

[21] **3,233,416**
[13] A1
[51] **Int.Cl. C07H 19/14 (2006.01) A61K 31/519 (2006.01) A61P 33/00 (2006.01) C07H 19/23 (2006.01)**
[25] EN
[54] **NUCLEOSIDE ANALOGUES FOR THE TREATMENT OF PARASITIC INFECTIONS**
[54] **ANALOGUES DE NUCLEOSIDES POUR LE TRAITEMENT D'INFECTIONS PARASITAIRES**
[72] VAN CALENBERGH, SERGE, BE
[72] CALJON, GUY, BE
[72] HULPIA, FABIAN, BE
[72] BOUTON, JAKOB, BE
[71] UNIVERSITEIT ANTWERPEN, BE
[71] UNIVERSITEIT GENT, BE
[85] 2024-03-26
[86] 2022-09-28 (PCT/EP2022/077048)
[87] (WO2023/052468)
[30] EP (21199547.7) 2021-09-28

[21] **3,233,417**
[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/52 (2006.01) C12N 15/77 (2006.01) C12P 13/06 (2006.01)**
[25] EN
[54] **NOVEL ACETOHYDROXY ACID SYNTHASE VARIANT, AND METHOD FOR PRODUCING L-ISOLEUCINE USING SAME**
[54] **NOUVEAU VARIANT D'ACETOHYDROXYACIDE SYNTHASE, ET PROCEDE DE PRODUCTION DE L-ISOLEUCINE L'UTILISANT**
[72] KIM, HEEYEONG, KR
[72] KIM, KYUNGRIM, KR
[72] CHOI, WOOSUNG, KR
[72] CHEONG, KI YONG, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2024-03-26
[86] 2022-08-05 (PCT/KR2022/011609)
[87] (WO2023/054881)
[30] KR (10-2021-0128911) 2021-09-29

[21] **3,233,418**
[13] A1
[51] **Int.Cl. B01D 61/02 (2006.01) B01D 61/14 (2006.01) B01D 67/00 (2006.01) B01D 69/02 (2006.01) B01D 69/12 (2006.01) B01D 71/34 (2006.01) B01D 71/68 (2006.01)**
[25] EN
[54] **COMPOSITE FILTER MEMBRANES PROVIDING INCREASED FLOWABILITY**
[54] **MEMBRANES FILTRANTES COMPOSITES ASSURANT UNE APTITUDE A L'ECOULEMENT ACCRUE**
[72] MOLENBERGHS, BART, BE
[72] BOUWMAN, BERT, BE
[71] VITO NV, BE
[85] 2024-03-26
[86] 2022-09-30 (PCT/EP2022/077248)
[87] (WO2023/052574)
[30] EP (21200204.2) 2021-09-30

[21] **3,233,419**
[13] A1
[51] **Int.Cl. C07K 1/36 (2006.01) C07K 1/16 (2006.01) C07K 1/18 (2006.01) C07K 1/22 (2006.01) C07K 16/00 (2006.01) B01D 15/34 (2006.01)**
[25] EN
[54] **AN IMPROVED PROCESS FOR PURIFICATION OF PROTEIN**
[54] **PROCEDE AMELIORE POUR PURIFICATION DE PROTEINE**
[72] NARAYAN, OM, IN
[72] GUPTA, TARUN KUMAR, IN
[72] THAKKAR, MAYANKKUMAR, IN
[72] UPADHYAY, ROSHAN GANESHLAL, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2024-03-26
[86] 2022-09-28 (PCT/IB2022/059238)
[87] (WO2023/053030)
[30] IN (202121043959) 2021-09-28
[30] IN (202121043962) 2021-09-28

[21] **3,233,420**
[13] A1
[51] **Int.Cl. C07K 1/36 (2006.01) C07K 1/16 (2006.01) C07K 1/18 (2006.01) C07K 1/22 (2006.01) C07K 16/00 (2006.01) B01D 15/34 (2006.01)**
[25] EN
[54] **AN IMPROVED PROCESS OF PURIFICATION OF FUSION PROTEIN**
[54] **PROCEDE AMELIORE DE PURIFICATION DE PROTEINE DE FUSION**
[72] NARAYAN, OM, IN
[72] GALANI, KISHOR, IN
[72] BHAVSAR, RUPEN, IN
[72] UPADHYAY, ROSHAN GANESHLAL, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2024-03-26
[86] 2022-09-28 (PCT/IB2022/059239)
[87] (WO2023/053031)
[30] IN (202121043967) 2021-09-28

[21] **3,233,421**
[13] A1
[51] **Int.Cl. C01B 32/20 (2017.01) H01M 4/587 (2010.01) H01M 4/36 (2006.01)**
[25] EN
[54] **CARBON MATERIAL AND PRODUCTION METHOD THEREFOR, AND SECONDARY BATTERY AND MANUFACTURING METHOD THEREFOR**
[54] **MATERIAU CARBONE ET SA METHODE DE PRODUCTION, ET BATTERIE SECONDAIRE ET SA METHODE DE FABRICATION**
[72] YOSHIDA, HIROAKI, JP
[72] HIRAHARA, SATOSHI, JP
[72] ISHIWATARI, NOBUYUKI, JP
[72] KONDO, HISAKO, JP
[72] YUASA, RYUTO, JP
[72] YOKOMIZO, MASAKAZU, JP
[71] MITSUBISHI CHEMICAL CORPORATION, JP
[85] 2024-03-26
[86] 2022-10-11 (PCT/JP2022/037832)
[87] (WO2023/074346)
[30] JP (2021-176633) 2021-10-28

[21] **3,233,422**
[13] A1
[51] **Int.Cl. C07K 16/06 (2006.01) B01D 15/36 (2006.01) B01D 15/38 (2006.01) C07K 1/18 (2006.01)**
[25] EN
[54] **AN IMPROVED PROCESS FOR PURIFICATION OF FUSION PROTEIN**
[54] **PROCEDE AMELIORE DE PURIFICATION DE PROTEINE DE FUSION**
[72] NARAYAN, OM, IN
[72] THAKKAR, MAYANKKUMAR, IN
[72] KUMAR, ANUJ, IN
[71] KASHIV BIOSCIENCES, LLC, US
[85] 2024-03-26
[86] 2022-09-28 (PCT/IB2022/059240)
[87] (WO2023/053032)
[30] IN (202121043969) 2021-09-28

[21] **3,233,423**
[13] A1
[51] **Int.Cl. H05B 47/185 (2020.01)**
[25] EN
[54] **AUTOMATIC CONFIGURATION OF A CONTROL MODULE FOR A LIGHTING FIXTURE**
[54] **CONFIGURATION AUTOMATIQUE D'UN MODULE DE COMMANDE POUR UN APPAREIL D'ECLAIRAGE**
[72] BARDIO, JESSICA, US
[72] COONEY, ANDREW KARL, US
[72] PETERSEN, ALEXANDER S., US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2024-03-28
[86] 2022-10-21 (PCT/US2022/047453)
[87] (WO2023/069730)
[30] US (63/262,931) 2021-10-22

[21] **3,233,424**
[13] A1
[51] **Int.Cl. F28D 9/00 (2006.01) F28F 3/08 (2006.01)**
[25] EN
[54] **HEAT TRANSFER PLATE AND GASKET**
[54] **PLAQUE DE TRANSFERT DE CHALEUR ET JOINT D'ETANCHEITE**
[72] NILSSON, JOHAN, SE
[72] RASMUSSEN, JENNY, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2023-10-23
[86] 2022-04-01 (PCT/EP2022/058769)
[87] (WO2022/228826)
[30] EP (21170710.4) 2021-04-27

[21] **3,233,425**
[13] A1
[51] **Int.Cl. C12N 9/10 (2006.01) C12N 15/52 (2006.01) C12N 15/77 (2006.01) C12P 13/06 (2006.01)**
[25] EN
[54] **NOVEL ACETOHYDROXY ACID SYNTHASE MUTANT AND L-ISOLEUCINE PRODUCTION METHOD USING SAME**
[54] **NOUVELLE ACETOHYDROXYACIDE SYNTHASE MUTANTE ET PROCEDE DE PRODUCTION DE L-ISOLEUCINE L'UTILISANT**
[72] KIM, HEEYEONG, KR
[72] KIM, KYUNGRIM, KR
[72] CHOI, WOOSUNG, KR
[72] CHEONG, KI YONG, KR
[71] CJ CHEILJEDANG CORPORATION, KR
[85] 2024-03-26
[86] 2022-08-05 (PCT/KR2022/011610)
[87] (WO2023/054882)
[30] KR (10-2021-0128912) 2021-09-29

[21] **3,233,426**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61K 31/58 (2006.01) A61P 17/14 (2006.01)**
[25] EN
[54] **HAIR LOSS THERAPY**
[54] **TRAITEMENT CONTRE LA PERTE DE CHEVEUX**
[72] SINHA, ANIMESH, US
[71] NIRMANA BIO, INC., US
[85] 2024-03-28
[86] 2022-09-27 (PCT/US2022/044912)
[87] (WO2023/055740)
[30] US (63/250,009) 2021-09-29

[21] **3,233,427**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **SLC13A5 GENE THERAPY VECTORS AND USES THEREOF**
[54] **VECTEURS DE THERAPIE GENIQUE SLC13A5 ET LEURS UTILISATIONS**
[72] BAILEY, RACHEL M., US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2024-03-26
[86] 2022-09-29 (PCT/US2022/077274)
[87] (WO2023/056367)
[30] US (63/250,761) 2021-09-30
[30] US (63/364,655) 2022-05-13

[21] **3,233,429**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/445 (2006.01) A61L 27/18 (2006.01) A61L 27/50 (2006.01) A61L 27/54 (2006.01) A61L 27/58 (2006.01)**
[25] EN
[54] **IMPLANTABLE DEPOTS WITH TUNABLE RELEASE PROFILES**
[54] **FORMES RETARD IMPLANTABLES A PROFILS DE LIBERATION REGLABLES**
[72] HANCOCK, JACKIE JOE, US
[72] SEET, DANIEL BOON LIM, US
[72] LEE, CYNTHIA R., US
[72] TEU, KOON KIAT, US
[72] BISHOP, GREGG M., US
[72] LIM, MING SIEW, US
[72] NG, ALICIA MUI SHEN, US
[72] RUANE, PATRICK H., US
[72] SINGH, MUKHTIAR, US
[72] SU, JAMES, US
[72] TAY, MEI YI, US
[71] FOUNDRY THERAPEUTICS, INC., US
[85] 2024-03-26
[86] 2022-09-30 (PCT/US2022/077351)
[87] (WO2023/056422)
[30] US (63/261,921) 2021-09-30
[30] US (63/373,510) 2022-08-25

[21] **3,233,431**
[13] A1
[51] **Int.Cl. G01N 1/28 (2006.01) G01N 21/01 (2006.01) G01N 21/63 (2006.01) G01N 21/64 (2006.01) G01N 33/487 (2006.01) G01N 33/49 (2006.01)**
[25] EN
[54] **DETECTION AND ANALYSIS OF CIRCULATING TUMOR CELLS**
[54] **DETECTION ET ANALYSE DE CELLULES TUMORALES CIRCULANTES**
[72] TAFAS, TRIANTAFYLLOS P., US
[71] QCDX LLC, US
[85] 2024-03-28
[86] 2022-01-12 (PCT/US2022/012137)
[87] (WO2022/155213)
[30] US (63/136,259) 2021-01-12
[30] US (63/285,951) 2021-12-03

[21] **3,233,432**
[13] A1
[51] **Int.Cl. G06T 7/194 (2017.01) G06T 19/20 (2011.01) G16H 30/20 (2018.01) G06T 7/155 (2017.01) G06V 10/00 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ANONYMIZATION OF IMAGE DATA**
[54] **SYSTEMES ET PROCEDES D'ANONYMISATION DE DONNEES D'IMAGE**
[72] SCHMIDTLEIN, ROSS, US
[72] LAFONTAINE, DANIEL, US
[71] MEMORIAL SLOAN-KETTERING CANCER CENTER, US
[71] MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES, US
[71] SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, US
[85] 2024-03-28
[86] 2022-09-28 (PCT/US2022/045122)
[87] (WO2023/055859)
[30] US (63/249,896) 2021-09-29

[21] **3,233,436**
[13] A1
[51] **Int.Cl. C10G 3/00 (2006.01) C10G 45/32 (2006.01) C10G 65/04 (2006.01)**
[25] EN
[54] **PROCESS FOR STABILIZATION OF REACTIVE LIQUID FEEDSTOCK**
[54] **PROCEDE POUR LA STABILISATION D'UNE CHARGE DE DEPART LIQUIDE REACTIVE**
[72] ANDERSEN, STEFAN, DK
[72] STUMMANN, MAGNUS ZINGLER, DK
[71] TOPSOE A/S, DK
[85] 2024-03-28
[86] 2022-11-03 (PCT/EP2022/080653)
[87] (WO2023/078983)
[30] EP (21206138.6) 2021-11-03

[21] **3,233,438**
[13] A1
[51] **Int.Cl. G21C 15/247 (2006.01) H02K 44/06 (2006.01)**
[25] EN
[54] **MULTISTAGE ANNULAR LINEAR INDUCTION PUMP FOR NUCLEAR REACTORS**
[54] **POMPE A INDUCTION LINEAIRE ANNULAIRE A PLUSIEURS ETAGES POUR REACTEURS NUCLEAIRES**
[72] LOEWEN, ERIC PAUL, US
[72] MURRAY, WILLIAM ROYSDON, US
[71] GE-HITACHI NUCLEAR ENERGY AMERICAS, US
[85] 2024-03-28
[86] 2022-09-26 (PCT/US2022/044668)
[87] (WO2023/196007)
[30] US (17/490,052) 2021-09-30

[21] **3,233,440**
[13] A1
[51] **Int.Cl. B64F 1/04 (2024.01) B64F 1/06 (2006.01)**
[25] EN
[54] **A LOCKING MECHANISM**
[54] **MECANISME DE VERROUILLAGE**
[72] KAYNAR, NIMET GUL, TR
[72] SAHIN, DURMUS ALI, TR
[72] TURK, FATIH, TR
[71] TUSAS- TURK HAVACILIK VE UZAY SANAYII ANONIM SIRKETI,
[85] 2024-03-28
[86] 2022-09-27 (PCT/TR2022/051046)
[87] (WO2023/055325)
[30] TR (2021/015322) 2021-09-30

[21] **3,233,442**
[13] A1
[51] **Int.Cl. H04R 5/02 (2006.01) H04R 29/00 (2006.01) H04S 7/00 (2006.01)**
[25] EN
[54] **AUDIO PARAMETER ADJUSTMENT BASED ON PLAYBACK DEVICE SEPARATION DISTANCE**
[54] **AJUSTEMENT DE PARAMETRE AUDIO SUR LA BASE D'UNE DISTANCE DE SEPARATION DE DISPOSITIF DE LECTURE**
[72] LEWIS, JERAD, US
[72] BUTTON, DOUGLAS JOHN, US
[72] MUNTEAN, KYLIE BETH, US
[72] JONES, DANIEL, US
[72] MEHRABI, ADIB, US
[72] PIKE, CHRISTOPHER WILLIAM, US
[71] SONOS, INC., US
[85] 2024-03-28
[86] 2022-09-29 (PCT/US2022/077233)
[87] (WO2023/056336)
[30] US (63/261,929) 2021-09-30

[21] **3,233,445**
[13] A1
[51] **Int.Cl. B29C 64/118 (2017.01) A41D 1/084 (2018.01) A41D 1/08 (2018.01)**
[25] EN
[54] **GARMENT WITH PADDING AND CORRESPONDING PRODUCTION METHOD**
[54] **VETEMENT AVEC REMBOURRAGE ET PROCEDE DE PRODUCTION CORRESPONDANT**
[72] BERTOLDO, DENIS, IT
[72] CAMPARI, ENRICO, IT
[72] MAZZOCCHETTI, LAURA, IT
[72] ANGIOLINI, LUIGI, IT
[72] GIANI, NICCOLO, IT
[71] CYTECH S.R.L., IT
[85] 2024-03-28
[86] 2022-09-29 (PCT/IT2022/050265)
[87] (WO2023/053156)
[30] IT (102021000025082) 2021-09-30

[21] **3,233,447**
[13] A1
[51] **Int.Cl. B60T 13/26 (2006.01) B60T 13/68 (2006.01) B60T 17/18 (2006.01)**
[25] EN
[54] **ELECTRICALLY MODULATED AIR BRAKE**
[54] **FREIN PNEUMATIQUE A MODULATION ELECTRIQUE**
[72] SHELTON, III ALTON L., US
[71] VALCRUM, LLC, US
[85] 2024-03-28
[86] 2022-09-27 (PCT/US2022/077094)
[87] (WO2023/056257)
[30] US (17/449,366) 2021-09-29

[21] **3,233,448**
[13] A1
[51] **Int.Cl. B60H 1/24 (2006.01) B29C 45/00 (2006.01)**
[25] EN
[54] **INJECTION MOLDED VEHICLE COMPARTMENT PRESSURE RELIEF VALVE**
[54] **SOUPAPE DE DECHARGE DE PRESSION DE COMPARTIMENT DE VEHICULE MOULEE PAR INJECTION**
[72] SADR, CHANGIZE, CA
[72] CHAN, BOSCO WEI MING, CA
[71] MARKDOM INTERNATIONAL INC., CA
[85] 2024-03-28
[86] 2022-09-30 (PCT/CA2022/051460)
[87] (WO2023/050016)
[30] US (63/261,996) 2021-10-01

[21] **3,233,449**
[13] A1
[51] **Int.Cl. C12N 9/20 (2006.01) A61K 38/46 (2006.01) A61P 1/18 (2006.01) C07K 14/21 (2006.01)**
[25] EN
[54] **ENGINEERED LIPASE ENZYMES, MANUFACTURE AND USE THEREOF**
[54] **ENZYMES LIPASES MODIFIEES, LEUR FABRICATION ET LEUR UTILISATION**
[72] GALLOTTO, ROBERT, US
[72] MARGOLIN, ALEXEY, US
[72] WIGHT, HUGH, US
[72] GREENE, JACK, US
[72] WELCH, MARK, US
[72] GUSTAFSSON, CLAES, US
[72] GOVINDARAJAN, SRIDHAR, US
[71] ANAGRAM THERAPEUTICS, INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077426)
[87] (WO2023/056469)
[30] US (63/250,403) 2021-09-30

[21] **3,233,453**
[13] A1
[51] **Int.Cl. C07D 471/08 (2006.01) A61K 31/4741 (2006.01) A61P 3/10 (2006.01) C07D 491/056 (2006.01)**
[25] EN
[54] **SOLID COMPOSITION OF GLP-1 RECEPTOR AGONIST**
[54] **COMPOSITION SOLIDE D'AGONISTE DU RECEPTEUR GLP-1**
[72] CHEN, MEIMEI, CN
[72] FANG, JIE, CN
[72] WU, HUI, CN
[72] TAN, FANG, CN
[72] LI, HAIYAN, CN
[72] XIAO, LI, CN
[72] BIAN, CONG, CN
[72] CHEN, LINA, CN
[72] ALMARIEGO, DANILO, US
[72] ANANTHA, ANDY, US
[71] HANGZHOU ZHONGMEIHUADONG PHARMACEUTICAL CO., LTD., CN
[71] VTV THERAPEUTICS LLC, US
[85] 2024-03-28
[86] 2022-09-27 (PCT/CN2022/121554)
[87] (WO2023/051490)
[30] CN (202111140592.3) 2021-09-28
[30] US (63/249,110) 2021-09-28

[21] **3,233,457**
[13] A1
[51] **Int.Cl. G06F 16/332 (2019.01) G06F 16/33 (2019.01) G06F 16/35 (2019.01) G06F 16/432 (2019.01) G06N 20/00 (2019.01) H04L 51/02 (2022.01) G06N 3/04 (2023.01) G06N 3/08 (2023.01)**
[25] EN
[54] **MACHINE LEARNING-IMPLEMENTED CHAT BOT DATABASE QUERY SYSTEM FOR MULTI-FORMAT DATABASE QUERIES**
[54] **SYSTEME D'INTERROGATION DE BASE DE DONNEES PAR DIALOGUEUR, IMPLEMENTE PAR APPRENTISSAGE AUTOMATIQUE, POUR INTERROGATIONS DE BASE DE DONNEES MULTI-FORMAT**
[72] VIJAYAN, JAYAPRAKASH, US
[72] SURTANI, VED, US
[72] GUPTA, NITIKA, US
[72] SARAVANAN, MALARVIZHI, US
[72] SARIA, ANIRUDH, US
[72] DHARMARAJ, AMRUTHA, US
[71] TEKION CORP, US
[85] 2024-03-28
[86] 2022-10-18 (PCT/US2022/047018)
[87] (WO2023/069431)
[30] US (17/508,442) 2021-10-22

[21] **3,233,458**
[13] A1
[51] **Int.Cl. C07D 413/14 (2006.01) A61K 47/69 (2017.01) A61K 51/10 (2006.01)**
[25] EN
[54] **MACROCYCLE CONTAINING COMPOUNDS AND RADIOLABELLED COMPLEXES THEREOF, AS LIGANDS IN TARGETED RADIOTHERAPY APPLICATIONS**
[54] **COMPOSES CONTENANT UN MACROCYCLE ET LEURS COMPLEXES RADIOMARQUES, UTILISES EN TANT QUE LIGANDS DANS DES APPLICATIONS DE RADIOTHERAPIE CIBLEE**
[72] MORGAN, KATHERINE ANNE, AU
[72] DONNELLY, PAUL STEPHEN, AU
[72] WICHMANN, CHRISTIAN WERNER, AU
[72] SCOTT, ANDREW MARK, AU
[71] THE UNIVERSITY OF MELBOURNE, AU
[71] OLIVIA NEWTON-JOHN CANCER RESEARCH INSTITUTE, AU
[85] 2024-03-28
[86] 2022-09-29 (PCT/AU2022/051165)
[87] (WO2023/049963)
[30] AU (2021903120) 2021-09-29

[21] **3,233,460**
[13] A1
[51] **Int.Cl. A61K 31/713 (2006.01) A61K 38/17 (2006.01) A61K 48/00 (2006.01) A61P 9/10 (2006.01)**
[25] EN
[54] **MAMMALIAN CARDIAC REGENERATION**
[54] **REGENERATION CARDIAQUE DE MAMMIFERE**
[72] BAKKERS, JEROEN PETRUS WILHELMUS MARIA, NL
[72] DE BAKKER, DENNIS EDUARD MARIA, NL
[71] KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN, NL
[85] 2024-03-28
[86] 2022-10-03 (PCT/NL2022/050553)
[87] (WO2023/055239)
[30] EP (21200545.8) 2021-10-01

[21] **3,233,464**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01)**
[25] EN
[54] **ASYMMETRIC BIS-BENZIMIDAZOLE STING AGONIST IMMUNOCONJUGATES AND USES THEREOF**
[54] **IMMUNOCONJUGUES D'AGONISTES STING ET DE BIS-BENZIMIDAZOLE ASYMETRIQUES ET LEURS UTILISATIONS**
[72] BRANDT, GARY, US
[72] KUDIRKA, ROMAS, US
[72] SAFINA, BRIAN, US
[72] ZHOU, MATTHEW, US
[71] BOLT BIOTHERAPEUTICS, INC., US
[85] 2024-03-28
[86] 2022-10-03 (PCT/US2022/045515)
[87] (WO2023/059544)
[30] US (63/251,805) 2021-10-04

[21] **3,233,465**
[13] A1
[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **ERGONOMIC BEVERAGE MACHINE**
[54] **MACHINE A BOISSONS ERGONOMIQUE**
[72] LAGOUCHE, LAURENT, FR
[72] REITZ, KEVIN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-03-28
[86] 2022-10-11 (PCT/EP2022/078212)
[87] (WO2023/061991)
[30] EP (21202356.8) 2021-10-13

[21] **3,233,468**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR RECOMBINANT AAV PRODUCTION**
[54] **COMPOSITIONS ET PROCEDES DE PRODUCTION D'AAV RECOMBINANTS**
[72] LIU, PING, US
[72] MAYER, AYDA, US
[72] JAMES, DAVID C., GB
[72] POHLE, THILO H., GB
[72] JOHARI, YUSUF B., GB
[71] REGENXBIO INC., US
[85] 2024-03-28
[86] 2022-10-05 (PCT/US2022/077587)
[87] (WO2023/060113)
[30] US (63/252,585) 2021-10-05
[30] US (63/320,335) 2022-03-16

[21] **3,233,469**
[13] A1
[51] **Int.Cl. A61B 3/00 (2006.01) A61B 90/00 (2016.01) A61B 90/20 (2016.01) A61B 3/13 (2006.01)**
[25] EN
[54] **STEREOSCOPIC IMAGING APPARATUS WITH MULTIPLE FIXED MAGNIFICATION LEVELS**
[54] **APPAREIL D'IMAGERIE STEREOSCOPIQUE A MULTIPLES NIVEAUX DE GROSSISSEMENT FIXES**
[72] MYERS, GILLIAN, US
[72] ASPNES, ERIC, US
[71] ALCON, INC., CH
[85] 2024-03-28
[86] 2022-10-07 (PCT/IB2022/059635)
[87] (WO2023/084335)
[30] US (63/277,382) 2021-11-09

[21] **3,233,472**
[13] A1
[51] **Int.Cl. B29C 64/118 (2017.01) A41D 1/084 (2018.01) A41D 1/08 (2018.01)**
[25] EN
[54] **METHOD FOR PRODUCING A PADDING AND PADDING THUS PRODUCED**
[54] **PROCEDE DE PRODUCTION D'UN REMBOURRAGE ET REMBOURRAGE AINSI PRODUIT**
[72] BERTOLDO, DENIS, IT
[72] CAMPARI, ENRICO, IT
[72] MAZZOCCHETTI, LAURA, IT
[72] ANGIOLINI, LUIGI, IT
[72] GIANI, NICCOLO, IT
[71] CYTECH S.R.L., IT
[85] 2024-03-28
[86] 2022-09-29 (PCT/IT2022/050266)
[87] (WO2023/053157)
[30] IT (102021000025094) 2021-09-30

[21] **3,233,474**
[13] A1
[51] **Int.Cl. C07D 471/18 (2006.01) A61K 31/439 (2006.01) A61K 31/4418 (2006.01) A61K 31/4725 (2006.01) A61K 31/506 (2006.01) A61K 31/537 (2006.01) A61K 31/538 (2006.01) A61P 11/00 (2006.01) A61P 11/06 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TRICYCLIC GPR65 MODULATORS**
[54] **MODULATEURS TRICYCLIQUES DE LA GPR65**
[72] MCCARTHY, TOM, GB
[72] NAYLOR, ALAN, GB
[72] MILLER, DAVID, GB
[72] MILNE, GAVIN, GB
[72] IEVA, MARIA, GB
[72] MOCHEL, TOBIAS, GB
[72] ESVAN, YANNICK, GB
[72] FEUTRILL, JOHN, GB
[71] PATHIOS THERAPEUTICS LIMITED, GB
[85] 2024-03-28
[86] 2022-10-17 (PCT/GB2022/052644)
[87] (WO2023/067322)
[30] GB (2114866.3) 2021-10-18
[30] GB (2117501.3) 2021-12-03
[30] GB (2208626.8) 2022-06-13
[30] GB (2211546.3) 2022-08-08
[30] GB (2213798.8) 2022-09-21

[21] **3,233,475**
[13] A1
[51] **Int.Cl. C12Q 1/6837 (2018.01)**
[25] EN
[54] **BLOCKER METHODS**
[54] **METHODES DE BLOCAGE**
[72] BEVIS-MOTT, CLAIRE, GB
[72] BRYAN, II DEBRA SUE, US
[71] ILLUMINA, INC., US
[85] 2024-03-28
[86] 2022-09-30 (PCT/EP2022/077386)
[87] (WO2023/052629)
[30] US (63/250,455) 2021-09-30

[21] **3,233,476**
[13] A1
[51] **Int.Cl. A61B 34/10 (2016.01) A61F 9/008 (2006.01)**
[25] EN
[54] **COMPUTERIZED TREATMENT PLAN WITH ALTERNATIVES FOR GUIDING OPHTHALMIC SURGERY**
[54] **PLAN DE TRAITEMENT INFORMATISE COMPORTANT DES ALTERNATIVES POUR GUIDER UNE CHIRURGIE OPHTALMIQUE**
[72] RAPOPORT, TOBIAS JURA, DE
[72] KASHANI, POORIA SHARIF, US
[72] GERENA, CARLOS, US
[72] LEE, SANG YEOP, US
[72] PETTIT, GEORGE HUNTER, US
[72] CAMPIN, JOHN ALFRED, US
[71] ALCON INC., CH
[85] 2024-03-28
[86] 2022-09-30 (PCT/IB2022/059367)
[87] (WO2023/079384)
[30] US (63/275,309) 2021-11-03
[30] US (63/394,520) 2022-08-02

[21] **3,233,477**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 37/02 (2006.01)**
[25] EN
[54] **SPLIT HUMAN IFN-GAMMA AND TNF-ALPHA CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS DE TNF-ALPHA ET D'IFN-GAMMA HUMAINS CLIVES ET LEURS UTILISATIONS**
[72] KLEY, NIKOLAI, US
[72] DEPLA, ERIK, BE
[72] ZABEAU, LENNART, BE
[71] ORIONIS BIOSCIENCES, INC., US
[71] ORIONIS BIOSCIENCES BV, BE
[85] 2024-03-28
[86] 2022-09-30 (PCT/US2022/077336)
[87] (WO2023/056412)
[30] US (63/250,425) 2021-09-30

[21] **3,233,480**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/0783 (2010.01) A61K 38/00 (2006.01) C07K 14/005 (2006.01) C07K 14/47 (2006.01) C07K 14/725 (2006.01) C12N 15/79 (2006.01)**
[25] EN
[54] **MODIFIED BINDING PROTEINS AND THERAPEUTIC USES THEREOF**
[54] **PROTEINES DE LIAISON MODIFIEES ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] DALEY, STEPHEN ROBERT, AU
[72] GRAS, STEPHANIE, AU
[72] LA GRUTA, NICOLE, AU
[72] ZAREIE, PIROOZ, AU
[72] SZETO, CHRISTOPHER, AU
[71] MONASH UNIVERSITY, AU
[71] QUEENSLAND UNIVERSITY OF TECHNOLOGY, AU
[85] 2024-03-28
[86] 2022-10-12 (PCT/AU2022/051227)
[87] (WO2023/060308)
[30] AU (2021903279) 2021-10-12

[21] **3,233,481**
[13] A1
[51] **Int.Cl. H01L 25/075 (2006.01) H01L 33/00 (2010.01) B63B 45/04 (2006.01) B63B 45/06 (2006.01)**
[25] EN
[54] **INTEGRATED UNDERWATER LED LIGHT ASSEMBLY**
[54] **ENSEMBLE D'ECLAIRAGE A DEL SOUS-MARIN INTEGRE**
[72] CHRISTENSON, ROBERT D., US
[72] JOHNSON, MARTIN, US
[72] JENSEN, JONATHAN, US
[72] NOFSINGER, ERIC, US
[71] LIQUID LUMENS, LLC, US
[85] 2024-03-28
[86] 2022-10-03 (PCT/US2022/045532)
[87] (WO2023/056091)
[30] US (63/251,134) 2021-10-01
[30] US (17/958,099) 2022-09-30

[21] **3,233,482**
[13] A1
[51] **Int.Cl. C07D 403/02 (2006.01) A61P 3/10 (2006.01) A61P 19/02 (2006.01) C07D 237/20 (2006.01) C07D 409/14 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL USE AND PREPARATION METHOD FOR SUBSTITUTED HETEROARYL PHTHALAZINE DERIVATIVE**
[54] **UTILISATION PHARMACEUTIQUE ET PROCEDE DE PREPARATION D'UN DERIVE D'HETEROARYL-PHTALAZINE SUBSTITUE**
[72] HUANG, QI, CN
[72] WAN, SONGLIN, CN
[72] LIU, GUOLIANG, CN
[72] XIONG, YIFENG, CN
[72] WU, XIAOQUAN, CN
[71] ORIGIANT PHARMACEUTICAL CO., LTD, CN
[85] 2024-03-28
[86] 2022-09-30 (PCT/CN2022/123126)
[87] (WO2023/051761)
[30] CN (202111166090.8) 2021-09-30

[21] **3,233,488**
[13] A1
[51] **Int.Cl. A23F 5/16 (2006.01) A23F 5/48 (2006.01)**
[25] EN
[54] **EXTRACTION OF COFFEE OIL FROM COFFEE-BASED FEEDSTOCKS BY USING A GREEN AND SCALABLE NEW PROCESS**
[54] **EXTRACTION D'HUILE DE CAFE A PARTIR DE MATIERES PREMIERES A BASE DE CAFE A L'AIDE D'UN NOUVEAU PROCEDE ECOLOGIQUE ET EVOLUTIF**
[72] TAYLOR, RYAN, GB
[72] THOMPSON, DAWN, GB
[72] POTTS, NATHAN, GB
[72] KENNEDY, SCOTT, GB
[72] MOORE, FERGUS, GB
[71] REVIVE ECO LTD, GB
[85] 2024-03-28
[86] 2022-10-11 (PCT/EP2022/078285)
[87] (WO2023/062026)
[30] GB (2114488.6) 2021-10-11

[21] **3,233,490**
[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 47/54 (2017.01) A61K 9/127 (2006.01) A61K 9/51 (2006.01) A61K 31/7088 (2006.01) A61P 31/04 (2006.01) A61P 35/00 (2006.01) C07C 215/08 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR T CELL TARGETED DELIVERY OF THERAPEUTIC AGENTS**
[54] **COMPOSITIONS ET METHODES POUR L'ADMINISTRATION D'AGENTS THERAPEUTIQUES CIBLEE A DES LYMPHOCYTES T**
[72] MITCHELL, MICHAEL, US
[72] BILLINGSLEY, MARGARET M., US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2024-03-28
[86] 2022-09-28 (PCT/US2022/077156)
[87] (WO2023/056282)
[30] US (63/249,236) 2021-09-28

[21] **3,233,502**
[13] A1
[51] **Int.Cl. C07D 487/22 (2006.01) C07K 1/13 (2006.01)**
[25] EN
[54] **IN-VIVO PROXIMITY-BASED LABELING SYSTEMS AND APPLICATIONS THEREOF**
[54] **SYSTEMES DE MARQUAGE A BASE DE PROXIMITE IN VIVO ET LEURS APPLICATIONS**
[72] GERI, JACOB B., US
[72] BUKSH, BENITO F., US
[72] MACMILLAN, DAVID W. C., US
[71] THE TRUSTEES OF PRINCETON UNIVERSITY, US
[85] 2024-03-28
[86] 2022-10-04 (PCT/US2022/045654)
[87] (WO2023/059621)
[30] US (63/252,244) 2021-10-05

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,232,521**
[13] A1
[51] **Int.Cl. A61K 31/7016 (2006.01) A61K 31/045 (2006.01) A61K 31/047 (2006.01) A61K 31/352 (2006.01) A61K 31/428 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **COMPOUNDS EFFECTIVE IN TREATING HEPATOTOXICITY AND FATTY LIVER DISEASES AND USES THEREOF**
[54] **COMPOSES EFFICACES POUR TRAITER L'HEPATOTOXICITE ET DES STEATOSES HEPATIQUES, ET UTILISATIONS DE CEUX-CI**
[72] HU, OLIVER YOA-PU, CN
[72] SHIH, TUNG-YUAN, CN
[72] HSIONG, CHENG-HUEI, CN
[72] HO, HSIN-TIEN, CN
[71] SINEW PHARMA INC., CN
[22] 2016-09-26
[41] 2017-03-30
[62] 2,999,368
[30] US (62/222,959) 2015-09-24
[30] US (62/257,697) 2015-11-19
[30] CN (PCT/CN2016/078039) 2016-03-31

[21] **3,232,522**
[13] A1
[25] EN
[54] **VARIABLE FREQUENCY DRIVE CONFIGURATION FOR ELECTRIC DRIVEN HYDRAULIC FRACKING SYSTEM**
[54] **COMMANDE D`ENTRAINEMENT A FREQUENCE VARIABLE D`UN SYSTEME DE FACTURATION HYDRAULIQUE A COMMANDE ELECTRIQUE**
[72] FISCHER, JOHN, US
[72] CROSETTO, JOHN J., US
[72] KUBRICHT, DAVID, US
[72] CHEATHAM, RICHARD, US
[72] POLLACK, JEFFREY, US
[72] LAWMAN, CHAD, US
[72] TODD, DAVID, US
[72] NOLEN, TYLER, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[22] 2020-02-14
[41] 2020-05-06
[62] 3,072,663
[30] US (62/805,521) 2019-02-14
[30] US (16/790,581) 2020-02-13

[21] **3,232,529**
[13] A1
[51] **Int.Cl. A61K 31/40 (2006.01) A61K 8/34 (2006.01) A61K 8/49 (2006.01) A61K 8/73 (2006.01) A61K 9/06 (2006.01) A61K 9/08 (2006.01) A61K 47/10 (2017.01) A61K 47/38 (2006.01) A61P 17/00 (2006.01) A61Q 15/00 (2006.01) C07D 207/04 (2006.01)**
[25] EN
[54] **FORMULATION FOR SOFT ANTICHOLINERGIC ANALOGS**
[54] **PREPARATION POUR ANALOGUES D'ANTICHOLINERGIQUES A POTENTIEL MODERE**
[72] BODOR, NICHOLAS S., US
[72] KOLENG, JOHN J., US
[72] ANGULO, DAVID, US
[71] BODOR LABORATORIES, INC., US
[22] 2016-07-21
[41] 2017-01-26
[62] 2,993,602
[30] US (14/805,114) 2015-07-21

[21] **3,232,537**
[13] A1
[25] EN
[54] **ANTIBODIES TO CANINE INTERLEUKIN-4 RECEPTOR ALPHA**
[54] **ANTICORPS CONTRE LE RECEPTEUR ALPHA DE L'INTERLEUKINE 4 CANINE**
[72] MORSEY, MOHAMAD, US
[72] ZHANG, YUANZHENG, US
[71] INTERVET INTERNATIONAL B.V., NL
[22] 2016-04-01
[41] 2016-10-06
[62] 2,980,087
[30] US (62/142,108) 2015-04-02
[30] US (62/269,486) 2015-12-18
[30] US (62/310,250) 2016-03-18

[21] **3,232,590**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE**
[54] **SYSTEME ET PROCEDE DE FONCTIONNEMENT AUTONOME D'UNE MACHINE**
[72] SCHLACKS, WILLIAM J., IV, US
[72] ADAMS, BRIAN, US
[72] DIANICS, JAMES, US
[72] GRAVES, IAN, US
[72] MARTIN, ROB, US
[72] PFURSICH, SCOTT, US
[71] EQUIPMENTSHARE.COM INC., US
[22] 2020-04-06
[41] 2020-10-08
[62] 3,136,140
[30] US (62/829,986) 2019-04-05
[30] US (62/987,062) 2020-03-09

---

[21] **3,232,612**
[13] A1
[25] EN
[54] **ARTIFICIAL INTELLIGENCE MODELING TO PREDICT ELECTRONIC ACCOUNT DATA**
[54] **MODELISATION PAR INTELLIGENCE ARTIFICIELLE POUR PREVOIR LES DONNEES DE COMPTE ELECTRONIQUE**
[72] NOSRATI, SEYED MASOUD, CA
[72] VAHLIS, EVGENE, CA
[72] SHAHIR, SEYED HAMED YAGHOUBI, CA
[72] ZHAO, BO, CA
[72] LANGBALLE, NICOLE, CA
[72] POON, PETER, CA
[71] BANK OF MONTREAL, CA
[22] 2021-04-09
[41] 2021-10-16
[62] 3,114,541
[30] US (63/010,743) 2020-04-16

---

[21] **3,232,613**
[13] A1
[25] EN
[54] **HANDLE FOR A PERSONAL CARE SYSTEM**
[54] **POIGNEE POUR SYSTEME DE SOINS PERSONNELS**
[72] SIEGMANN, ERIC GLENN, US
[72] HARRINGTON, NICHOLAS ROBERT, US
[72] WALKER, VINCENT PAUL, JR., US
[72] WASHINGTON, JACK ANTHONY, US
[71] THE GILLETTE COMPANY LLC, US
[22] 2021-03-10
[41] 2021-09-16
[62] 3,172,417
[30] US (62/987,652) 2020-03-10

---

[21] **3,232,626**
[13] A1
[25] EN
[54] **GALLBLADDER MODEL**
[54] **MODELE DE VESICULE BILIAIRE**
[72] BLACK, KATIE, US
[72] BRESLIN, TRACY, US
[72] POULSEN, NIKOLAI, US
[72] HART, CHARLES C., US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[22] 2014-06-18
[41] 2014-12-24
[62] 3,159,232
[30] US (61/836,512) 2013-06-18

---

[21] **3,232,627**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR CONDITIONING AIR**
[54] **SYSTEME ET METHODE DE CLIMATISATION**
[72] GREFSHEIM, SCOTT, US
[72] NORTON, JEFF, US
[72] FRIEDERICK, TOM, US
[71] RESEARCH PRODUCTS CORPORATION, US
[22] 2021-09-21
[41] 2022-03-22
[62] 3,131,520
[30] US (63/081,400) 2020-09-22

---

[21] **3,232,637**
[13] A1
[25] EN
[54] **LOAD CONTROL DEVICE CONFIGURED TO OPERATE IN TWO-WIRE AND THREE-WIRE MODES**
[54] **DISPOSITIF DE COMMANDE DE CHARGE CONCU POUR FONCTIONNER DANS DES MODES A DEUX FILS ET A TROIS FILS**
[72] BENNING, MARK A., US
[72] BRENNER, THOMAS W., US
[72] BROGAN, QUINN, US
[72] HAUSMAN, DONALD F., JR., US
[72] MACLELLAN, PETER, US
[72] OLSEN, MATTHEW KYLE, US
[72] PENNOCK, MATTHEW, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[22] 2019-11-26
[41] 2020-06-04
[62] 3,121,324
[30] US (62/773,803) 2018-11-30
[30] US (62/826,406) 2019-03-29
[30] US (62/832,476) 2019-04-11

---

[21] **3,232,695**
[13] A1
[25] EN
[54] **INTELLIGENT FUEL DISPENSERS**
[54] **DISTRIBUTEURS DE CARBURANT INTELLIGENTS**
[72] MORRIS, JOHN JOSEPH, US
[72] NEGLEY, SCOTT R., III, US
[72] BIRKLER, ANNIKA, SE
[72] CARLSSON, RICHARD, SE
[72] JEITLER, PATRICK, US
[72] KRETZLER, RANDAL S., US
[71] WAYNE FUELING SYSTEMS LLC, US
[22] 2017-03-31
[41] 2017-10-26
[62] 3,012,217
[30] US (62/325,796) 2016-04-21
[30] US (62/342,410) 2016-05-27
[30] US (62/349,513) 2016-06-13

[21] **3,232,701**
[13] A1
[25] EN
[54] **FILTER CAKE-BASED SYSTEMS AND METHODS FOR THE CULTIVATION OF CELLS AND CELL BIOMASS**
[54] **SYSTEMES ET PROCEDES FONDES SUR LES GATEAUX DE FILTRATION POUR LA CULTURE CELLULAIRE ET DE BIOMASSE CELLULAIRE**
[72] MUELLER-AUFFERMANN, KONRAD, US
[71] UPSIDE FOODS, INC., US
[22] 2022-03-29
[41] 2023-03-30
[62] 3,219,050
[30] US (17/481,176) 2021-09-21

---

[21] **3,232,808**
[13] A1
[25] EN
[54] **WINDOW PARAMETER CONFIGURATION METHOD AND SYSTEM, COMPUTER-READABLE MEDIA**
[54] **METHODE ET SYSTEME DE CONFIGURATION DES PARAMETRES D`UNE FENETRE ET SUPPORT LISIBLE PAR UNE MACHINE**
[72] YANG, KAIMING, CN
[72] YANG, HU, CN
[72] ZHANG, BO, CN
[72] HAO, XUEWU, CN
[71] 10353744 CANADA LTD., CA
[22] 2019-09-26
[41] 2020-03-28
[62] 3,056,859
[30] CN (201811139735.7) 2018-09-28

---

[21] **3,232,814**
[13] A1
[25] EN
[54] **ADJUSTABLE PRE-SUTURED ALLOGRAFT CONSTRUCT**
[54] **CONSTRUCTION D'ALLOGREFFE PRE-SUTUREE AJUSTABLE**
[72] BLEDSOE, RUTH, US
[72] BULL, MARINA, US
[72] BLOOD, KENNETH, US
[72] WHITE, BRIAN, US
[72] IRONS, CHRISTOPHER, US
[71] ALLOSOURCE, US
[22] 2022-04-04
[41] 2022-10-06
[62] 3,210,588
[30] US (63/169,991) 2021-04-02

---

[21] **3,232,826**
[13] A1
[25] EN
[54] **BLOOD CELL LYSIS REAGENT**
[54] **REACTIF DE LYSE DE CELLULES SANGUINES**
[72] GAO, KUI, US
[72] CHELLISERRY, JIJUMON, US
[72] LINNEN, JEFFREY, US
[71] GEN-PROBE INCORPORATED, US
[22] 2017-04-26
[41] 2017-11-02
[62] 3,021,914
[30] US (62/328,358) 2016-04-27

---

[21] **3,232,909**
[13] A1
[25] EN
[54] **SYSTEM FOR WIRELESS GAMING WITH USER PROFILES**
[54] **SYSTEME DE JEU SANS FIL AVEC PROFILS D'UTILISATEURS**
[72] AMAITIS, LEE M., GB
[72] ASHER, JOSEPH M., GB
[72] BAHRAMPOUR, ROBERT F., GB
[72] MYLET, DARRIN M., GB
[72] WILKINS, ALAN B., GB
[72] LUTNIK, HOWARD W., GB
[71] CFPH, LLC, US
[22] 2006-07-07
[41] 2007-01-18
[62] 2,754,756
[30] US (60/697,861) 2005-07-08
[30] US (11/199,835) 2005-08-09

---

[21] **3,232,922**
[13] A1
[25] EN
[54] **USE OF FERMENTATION TAIL GAS IN INTEGRATED GASIFICATION AND GAS FERMENTATION SYSTEM**
[54] **UTILISATION DE GAZ RESIDUAIRE DE FERMENTATION DANS UN SYSTEME INTEGRE DE GAZEIFICATION ET DE FERMENTATION DE GAZ**
[72] GAO, ALLAN HAIMING, US
[72] CONRADO, ROBERT JOHN, US
[72] ROSIN, RICHARD, US
[72] MORIN, GREGORY, US
[72] NOWAK, FRANZ-MARCUS, US
[71] LANZATECH, INC., US
[22] 2021-03-04
[41] 2021-09-23
[62] 3,166,840
[30] US (62/990,216) 2020-03-16
[30] US (17/180,583) 2021-02-19

---

[21] **3,232,970**
[13] A1
[25] EN
[54] **COMMUNICATING WITH AND CONTROLLING LOAD CONTROL SYSTEMS**
[54] **COMMUNICATION AVEC ET COMMANDE DE SYSTEMES DE COMMANDE DE CHARGE**
[72] NILL, JOHN B., US
[72] BAMBERGER, MATTHEW, US
[72] SWAILS, JASON M., US
[72] JONES, CHRISTOPHER M., US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[22] 2018-02-28
[41] 2018-09-07
[62] 3,054,798
[30] US (62/464,834) 2017-02-28
[30] US (62/465,433) 2017-03-01
[30] US (62/485,212) 2017-04-13

---

[21] **3,232,974**
[13] A1
[51] **Int.Cl. G06Q 30/06 (2023.01) G06Q 10/10 (2023.01)**
[25] EN
[54] **COMMISSION ALLOCATION BASED ON ELECTRONIC INFORMATION CONSUMPTION**
[54] **ATTRIBUTION DE COMMISSION FONDEE SUR LA CONSOMMATION DE DONNEES ELECTRONIQUES**
[72] LIVINGSTON, BLAIR, CA
[71] QUANTIFY LABS, INC., CA
[22] 2015-05-12
[41] 2015-11-12
[62] 2,891,146
[30] US (61/991677) 2014-05-12

---

[21] **3,232,989**
[13] A1
[25] EN
[54] **METHOD OF BRAKING A POWER TOOL**
[54] **METHODE DE FREINAGE D'UN OUTIL ELECTRIQUE**
[72] RAJZER, MICHAEL, US
[72] GENZ, JASON, US
[71] SNAP-ON INCORPORATED, US
[22] 2021-12-07
[41] 2022-06-15
[62] 3,141,228
[30] US (17/122,285) 2020-12-15

[21] **3,233,048**
[13] A1
[25] EN
[54] **COMPOSITION FOR CLEAVING A TARGET DNA COMPRISING A GUIDE RNA SPECIFIC FOR THE TARGET DNA AND CAS PROTEIN-ENCODING NUCLEIC ACID OR CAS PROTEIN, AND USE THEREOF**
[54] **COMPOSITION POUR LE CLIVAGE D'UN ADN CIBLE COMPRENANT UN ARN GUIDE SPECIFIQUE DE L'ADN CIBLE ET UN ACIDE NUCLEIQUE CODANT POUR LA PROTEINE CAS OU LA PROTEINE CAS, ET LEUR UTILISAT ION**
[72] KIM, JIN-SOO, KR
[72] CHO, SEUNG WOO, KR
[72] KIM, SOJUNG, KR
[72] KIM, JONG MIN, KR
[72] KIM, SEOKJOONG, KR
[71] TOOLGEN INCORPORATED, KR
[22] 2013-10-23
[41] 2014-05-01
[62] 2,888,190
[30] US (61/717,324) 2012-10-23
[30] US (61/803,599) 2013-03-20
[30] US (61/837,481) 2013-06-20

[21] **3,233,141**
[13] A1
[25] EN
[54] **ALPHA-HYDROXYLATED FATTY ACIDS METABOLITES, MEDICAL USES OF SAME AND USE AS BIOMARKERS**
[54] **METABOLITES D'ACIDES GRAS ALPHA-HYDROXYLES, LEURS UTILISATIONS MEDICALES ET LEUR UTILISATION COMME BIOMARQUEURS**
[72] ESCRIBA RUIZ, PABLO VICENTE, ES
[72] TORRES CANALEJO, MANUEL, ES
[72] BUSQUETS XAUBET, XAVIER, ES
[72] LLADO CANELLAS, VICTORIA, ES
[72] FERNANDEZ GARCIA, PAULA, ES
[72] ROSSELLO CASTILLO, CATALINA ANA, ES
[72] PARETS BARRIOS, SEBASTIA, ES
[72] BETETA GOBEL, ROBERTO, ES
[72] CANO URREGO, EMILCE, ES
[72] ARBONA GONZALEZ, LAURA, ES
[72] RODRIGUEZ LORCA, RAQUEL, ES
[72] CABOT BAUZA, JUAN, ES
[72] MILLARES PIZA, MARC, ES
[71] UNIVERSITAT DE LES ILLES BALEARS, ES
[22] 2021-01-28
[41] 2021-08-05
[62] 3,166,307
[30] ES (P202030070) 2020-01-29
[30] EP (20382145.9) 2020-02-28
[30] ES (P202031155) 2020-11-17

[21] **3,233,142**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **DRUG CONTAINING CARRIER INTO CELL FOR FORMING IMMUNE COMPLEX**
[54] **SUPPORT CONTENANT DES MEDICAMENTS DANS UNE CELLULE POUR FORMER UN COMPLEXE IMMUNITAIRE**
[72] IGAWA, TOMOYUKI, JP
[72] HIRONIWA, NAOKA, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[22] 2012-11-30
[41] 2013-06-06
[62] 2,857,159
[30] JP (PCT/JP2011/077619) 2011-11-30
[30] JP (2012-123773) 2012-05-30

[21] **3,233,159**
[13] A1
[25] EN
[54] **SUBCUTANEOUS FORMULATIONS OF ANTI-CD38 ANTIBODIES AND THEIR USES**
[54] **FORMULATIONS SOUS-CUTANEE D'ANTICORPS ANTI-CD38 ET LEURS UTILISATIONS**
[72] JANSSEN, RICHARD, US
[72] KUMAR, VINEET, US
[71] JANSSEN BIOTECH, INC., US
[22] 2016-11-01
[41] 2017-05-11
[62] 3,004,152
[30] US (62/250,016) 2015-11-03

[21] **3,233,179**
[13] A1
[25] EN
[54] **PRE-ASSEMBLED COUPLING ASSEMBLY WITH CAP**
[54]
[72] MCNAMARA, MATTHEW WILLIAM, US
[72] BELEN, JORDAN CAMERON, US
[72] SCOTT, STEPHEN ERIC, US
[71] ASC ENGINEERED SOLUTIONS, LLC, US
[22] 2018-07-27
[41] 2019-01-31
[62] 3,071,272
[30] US (62/538,480) 2017-07-28
[30] US (16/044,080) 2018-07-24

[21] **3,233,186**
[13] A1
[25] EN
[54] **LAYERED CABLE**
[54]
[72] SALEHI-MOGHADAM, MANSOUR, GB
[72] O'BRIEN, GARETH, IE
[72] LUCAS-CLEMENTS, CHARLES, GB
[72] QUENNELL, DOMINIC, GB
[71] ENERTECHNOS LIMITED, GB
[22] 2019-06-07
[41] 2019-12-12
[62] 3,102,915
[30] GB (1809392.2) 2018-06-07
[30] GB (1810702.9) 2018-06-29

[21] **3,233,214**
[13] A1
[25] EN
[54] **WELLHEAD SYSTEM AND METHODS**
[54]
[72] NAVAR, JOSE, US
[72] NGUYEN, KYTHU, US
[72] NGUYEN, DENNIS, US
[72] VANDERFORD, DELBERT, US
[72] BUSCH, JASON, US
[72] LIM, HAW KEAT, SG
[71] CAMERON TECHNOLOGIES LIMITED, NL
[22] 2017-12-12
[41] 2018-06-21
[62] 3,046,956
[30] US (62/432,808) 2016-12-12

---

[21] **3,233,270**
[13] A1
[51] **Int.Cl. C08B 37/16 (2006.01) C30B 29/58 (2006.01) A61K 31/724 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING SUGAMMADEX**
[54] **PROCEDE DE PREPARATION DE SUGAMMADEX**
[72] LAMBERTO, DAVID J., US
[72] AVALLE, PAOLO, CH
[72] CODAN, LORENZO, CH
[72] LARPENT, PATRICK, CH
[72] SCHOELL, JOCHEN, CH
[72] NEUHAUS, JEFFREY S., US
[71] MERCK SHARP & DOHME LLC, US
[71] WERTHENSTEIN BIOPHARMA GMBH, CH
[22] 2021-09-08
[41] 2022-03-17
[62] 3,192,113
[30] US (63/076,133) 2020-09-09

---

[21] **3,233,304**
[13] A1
[25] EN
[54] **SIDELINK SIGNAL REPETITION AND PREEMPTION**
[54] **REPETITION ET PREEMPTION DE SIGNAL DE LIAISON LATERALE**
[72] CHAE, HYUKJIN, US
[72] DINAN, ESMAEL, US
[72] YI, YUNJUNG, US
[71] OFINNO, LLC, US
[22] 2020-10-05
[41] 2021-04-08
[62] 3,156,809
[30] US (62/910,359) 2019-10-03

---

[21] **3,233,305**
[13] A1
[25] EN
[54] **SOLID FORMS OF FXR AGONISTS**
[54] **FORMES SOLIDES D'AGONISTES DE FXR**
[72] DALTON, DEREK M., US
[72] FUNG, PETER C., US
[72] GRIGGS, NOLAN, US
[72] HEMENWAY, JEFFREY N., US
[72] LAPINA, OLGA V., US
[72] LOGAN, MATTHEW M., US
[72] NEVILLE, SEAN T., US
[72] REYNOLDS, BRYAN J., US
[72] SHIH, HUI-WEN, US
[72] WAGNER, ANNA M., US
[71] GILEAD SCIENCES, INC., US
[22] 2020-02-14
[41] 2020-08-27
[62] 3,129,949
[30] US (62/807,542) 2019-02-19

---

[21] **3,233,310**
[13] A1
[25] EN
[54] **MULTIPLEX AMPLIFICATION DETECTION ASSAY AND ISOLATION AND DETECTION OF DNA FROM PLASMA**
[54] **DETECTION PAR AMPLIFICATION MULTIPLEXEE ET ISOLEMENT ET DETECTION D'ADN ISSU DE PLASMA**
[72] ALLAWI, HATIM, US
[72] LIDGARD, GRAHAM P., US
[72] AIZENSTEIN, BRIAN, US
[72] SANDER, TAMARA J., US
[72] GIAKOUMOPOULOS, MARIA, US
[72] KAISER, MICHAEL W., US
[72] GRAY, MELISSA M., US
[72] VACCARO, ABRAM MICHAEL, US
[71] EXACT SCIENCES DEVELOPMENT COMPANY, LLC, US
[22] 2016-10-26
[41] 2017-05-04
[62] 3,002,196
[30] US (62/249,097) 2015-10-30

Index of Canadian Patents Issued

April 9, 2024

Index des brevets canadiens délivrés

9 avril 2024

Index des brevets canadiens délivrés
9 avril 2024

Index of Canadian Patents Issued
April 9, 2024

Index des brevets canadiens délivrés
9 avril 2024

Index of Canadian Patents Issued
April 9, 2024

Index des brevets canadiens délivrés
9 avril 2024

Index of Canadian Patents Issued
April 9, 2024

Index des brevets canadiens délivrés
9 avril 2024

Index of Canadian Applications Open to Public Inspection

March 24, 2024 to March 30, 2024

Index des demandes canadiennes mises à la disponibilité du public

24 mars 2024 au 30 mars 2024

Index des demandes canadiennes mises à la disponibilité du public
24 mars 2024 au 30 mars 2024

Index of Canadian Applications Open to Public Inspection
March 24, 2024 to March 30, 2024

Index des demandes canadiennes mises à la disponibilité du public
24 mars 2024 au 30 mars 2024

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index des demandes PCT entrant en phase nationale

Index of PCT Applications Entering the National Phase

Index des demandes PCT entrant en phase nationale

Index of Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Index des demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant