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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.

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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
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[54] - Title of Invention
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[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
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[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

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14. Procédures de correspondance

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

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

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

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

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

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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.

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.

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

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

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.

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.

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.

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.

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

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.

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

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 August 9, 2022 contains applications open to public inspection from July 24, 2022 to July 30, 2022.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 9 août 2022 contient les demandes disponibles au public pour consultation pour la période du 24 juillet 2022 au 30 juillet 2022.

16. Erratum

All information respecting patent application number 3,072,811 referred to under the section *Canadian Applications Open to Public Inspection* contained in the Vol. 149 No. 35 August 31, 2021, issue of the *Canadian Patent Office Record* was erroneously published, and should be disregarded.

16. Erratum

Toutes les informations relatives à la demande de brevet 3 072 811 mentionné dans la rubrique *Demandes canadiennes mises à la disponibilité du public* dans le numéro Vol. 149 No. 35 du 31 août 2021 de la *Gazette du Bureau des brevets* ont été publiées par erreur et doivent être ignorées.

Canadian Patents Issued

August 9, 2022

Brevets canadiens délivrés

9 août 2022

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[11] **2,791,492**
[13] C
[51] **Int.Cl. C09K 8/592 (2006.01) E21B 43/22 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **HYDROCARBON RECOVERY FROM BITUMINOUS SANDS WITH INJECTION OF SURFACTANT VAPOUR**
[54] **RECUPERATION D'HYDROCARBURES DES SABLES BITUMINEUX AVEC INJECTION DE VAPEUR TENSIOACTIVE**
[72] ZEIDANI, KHALIL, CA
[72] GUPTA, SUBODH, CA
[73] CENOVUS ENERGY INC., CA
[86] (2791492)
[87] (2791492)
[22] 2012-09-28
[30] US (61/541,712) 2011-09-30

---

[11] **2,818,790**
[13] C
[51] **Int.Cl. G01V 1/28 (2006.01)**
[25] EN
[54] **SEISMIC TRACE ATTRIBUTE**
[54] **ATTRIBUTS DE TRACES SISMIQUES**
[72] WALLET, BRADLEY CLARK, NO
[72] AARRE, VICTOR, NO
[73] SCHLUMBERGER CANADA LIMITED, CA
[86] (2818790)
[87] (2818790)
[22] 2013-06-12
[30] US (61/659,036) 2012-06-13

---

[11] **2,830,289**
[13] C
[51] **Int.Cl. F23G 5/46 (2006.01) F01K 7/00 (2006.01) F01K 25/14 (2006.01) F01K 27/00 (2006.01) F25B 27/02 (2006.01)**
[25] EN
[54] **METHOD TO MAXIMIZE ENERGY RECOVERY IN WASTE-TO-ENERGY PROCESSES**
[54] **PROCEDE POUR RENDRE AU MAXIMAL UNE RECUPERATION D'ENERGIE DANS DES PROCEDES DECHETS-EN-ENERGIE**
[72] TAVARES, JASON ROBERT, CA
[72] CARABIN, PIERRE, CA
[73] PYROGENESIS CANADA INC., CA
[85] 2013-09-16
[86] 2012-03-14 (PCT/CA2012/000233)
[87] (WO2012/122631)
[30] US (61/452,501) 2011-03-14

---

[11] **2,836,854**
[13] C
[51] **Int.Cl. A61K 31/385 (2006.01) A61K 36/48 (2006.01) A61K 36/54 (2006.01) A61P 19/04 (2006.01)**
[25] EN
[54] **ORALLY ADMINISTRABLE COMPOSITIONS COMPRISING AVOCADO/SOYBEAN UNSAPONIFIABLES AND LIPOIC ACID AND METHODS OF ADMINISTRATION**
[54] **COMPOSITIONS ADMINISTRABLES PAR VOIE ORALE COMPRENANT DES INSAPONIFIABLES D'AVOCAT/DE GRAINES DE SOJA ET DE L'ACIDE LIPOIQUE, ET PROCEDES D'ADMINISTRATION**
[72] FRONDOZA, CARMELITA, US
[72] HENDERSON, TODD R., US
[72] GRZANNA, REINHARD, US
[73] NUTRAMAX LABORATORIES, INC., US
[85] 2013-11-20
[86] 2012-05-16 (PCT/US2012/038168)
[87] (WO2012/162063)
[30] US (13/112,488) 2011-05-20

---

[11] **2,851,073**
[13] C
[51] **Int.Cl. F02K 1/46 (2006.01) F02K 1/48 (2006.01)**
[25] EN
[54] **EXHAUST MIXER WITH OFFSET LOBES**
[54] **MELANGEUR D'ECHAPPEMENT AVEC LOBES DECALES**
[72] CUNNINGHAM, MARK HUZZARD, CA
[72] MARINI, REMO, CA
[72] GIRGIS, SAMI, CA
[72] KAMESHLD, MOHAMMAD REZA, CA
[72] RAMAMURTHY, RAJA, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2851073)
[87] (2851073)
[22] 2014-05-02
[30] US (13/937,587) 2013-07-09

---

[11] **2,851,710**
[13] C
[51] **Int.Cl. E21B 23/10 (2006.01) E21B 33/12 (2006.01) E21B 34/08 (2006.01) E21B 34/14 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **WELLBORE ACTUATORS, TREATMENT STRINGS AND METHODS**
[54] **ACTIONNEURS DE PUITS DE FORAGE, TRAINS DE TIGES DE TRAITEMENT ET PROCEDES**
[72] COON, ROBERT JOE, US
[72] THEMIG, DANIEL JON, CA
[73] PACKERS PLUS ENERGY SERVICES INC., CA
[85] 2014-04-10
[86] 2012-10-09 (PCT/CA2012/050711)
[87] (WO2013/053057)
[30] US (61/545,818) 2011-10-11

[11] **2,856,383**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01) A01H 4/00 (2006.01) C12N 11/12 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **METHOD FOR THE GENERATION AND CULTIVATION OF A PLANT CELL PACK**
[54] **PROCEDE DE GENERATION ET DE CULTURE D'UN BLOC CELLULAIRE VEGETALE**
[72] RADEMACHER, THOMAS, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2014-05-20
[86] 2013-01-31 (PCT/EP2013/000296)
[87] (WO2013/113504)
[30] EP (EP 12 000 618.4) 2012-01-31
[30] US (61/592,780) 2012-01-31

[11] **2,861,293**
[13] C
[51] **Int.Cl. F23R 3/00 (2006.01)**
[25] EN
[54] **COMBUSTOR DOME HEAT SHIELD**
[54] **ECRAN THERMIQUE A CALOTTE DE CHAMBRE A COMBUSTION**
[72] PAPPLE, MICHAEL, CA
[72] SZE, ROBERT, CA
[72] SREEKANTH, SRI, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2861293)
[87] (2861293)
[22] 2014-08-26
[30] US (14/085,011) 2013-11-20

[11] **2,862,403**
[13] C
[51] **Int.Cl. A61K 38/46 (2006.01) A61P 1/18 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING BEHAVIORAL SYMPTOMS OF NEUROLOGICAL AND MENTAL DISORDERS**
[54] **PROCEDES DE TRAITEMENT DES SYMPTOMES COMPORTEMENTAUX DE TROUBLES NEUROLOGIQUES ET MENTAUX**
[72] FALLON, JOAN M., US
[72] HEIL, MATTHEW F., US
[72] SZIGETHY, JAMES, US
[72] NANUS, KENNETH, US
[72] FALLON, JAMES J., US
[73] CUREMARK, LLC, US
[85] 2014-06-27
[86] 2013-01-03 (PCT/US2013/020183)
[87] (WO2013/103746)
[30] US (61/582,813) 2012-01-03
[30] US (61/600,110) 2012-02-17

[11] **2,863,587**
[13] C
[51] **Int.Cl. A61B 1/05 (2006.01) A61B 1/00 (2006.01) A61B 1/018 (2006.01) A61B 1/07 (2006.01)**
[25] EN
[54] **OPTICAL COUPLER FOR AN ENDOSCOPE**
[54] **COUPLEUR OPTIQUE POUR UN ENDOSCOPE**
[72] TITUS, JAMES SIDNEY, US
[73] THE GENERAL HOSPITAL CORPORATION, US
[85] 2014-07-31
[86] 2012-02-16 (PCT/US2012/025404)
[87] (WO2012/112755)
[30] US (61/443,546) 2011-02-16

[11] **2,865,001**
[13] C
[51] **Int.Cl. G06F 9/451 (2018.01)**
[25] EN
[54] **WEB APPLICATION WITH ADAPTIVE USER INTERFACE**
[54] **APPLICATION WEB AVEC INTERFACE UTILISATEUR ADAPTATIVE**
[72] MANGEYM, VLADISLAV M., US
[72] PUZATKIN, OLEG, US
[73] VFA, INC., US
[86] (2865001)
[87] (2865001)
[22] 2014-09-26
[30] US (61/883,321) 2013-09-27

[11] **2,868,480**
[13] C
[51] **Int.Cl. B01D 53/62 (2006.01) B01J 10/00 (2006.01) C09K 3/00 (2006.01)**
[25] EN
[54] **AMINO-SILOXANE COMPOSITION AND METHODS OF USING THE SAME**
[54] **COMPOSITION D'AMINO-SILOXANE ET PROCEDES D'UTILISATION DE CELLE-CI**
[72] O'BRIEN, MICHAEL JOSEPH, US
[72] FARNUM, RACHEL LIZABETH, US
[72] PERRY, ROBERT JAMES, US
[73] AIR PRODUCTS AND CHEMICALS, INC., US
[86] (2868480)
[87] (2868480)
[22] 2014-09-25
[30] US (14/051,594) 2013-10-11

[11] **2,870,602**
[13] C
[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/159 (2014.01) H04N 19/186 (2014.01) H04N 19/82 (2014.01)**
[25] EN
[54] **DATA ENCODING AND DECODING**
[54] **CODAGE ET DECODAGE DE DONNEES**
[72] GAMEI, JAMES ALEXANDER, GB
[72] SAUNDERS, NICHOLAS IAN, GB
[72] SHARMAN, KARL JAMES, GB
[72] SILCOCK, PAUL JAMES, GB
[73] SONY CORPORATION, JP
[85] 2014-10-16
[86] 2013-04-26 (PCT/GB2013/051072)
[87] (WO2013/160695)
[30] GB (1207459.7) 2012-04-26
[30] GB (1211075.5) 2012-06-22
[30] GB (1211619.0) 2012-06-29

[11] **2,870,621**
[13] C
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 47/64 (2017.01) A61K 38/16 (2006.01) A61K 38/48 (2006.01) A61P 7/04 (2006.01) C07K 14/575 (2006.01) C12N 9/64 (2006.01) C12N 9/96 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **LONG-ACTING COAGULATION FACTORS AND METHODS OF PRODUCING SAME**
[54] **FACTEURS DE COAGULATION A ACTION PROLONGEE ET LEURS PROCEDES DE PRODUCTION**
[72] FIMA, UDI EYAL, IL
[72] HART, GILI, IL
[73] OPKO BIOLOGICS LTD., IL
[85] 2014-08-13
[86] 2013-02-05 (PCT/IL2013/050107)
[87] (WO2013/121416)
[30] US (13/372,540) 2012-02-14

---

[11] **2,872,944**
[13] C
[51] **Int.Cl. E21B 47/00 (2012.01) E21B 47/008 (2012.01) E21B 47/18 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MONITORING WELL OPERATIONS**
[54] **PROCEDE ET SYSTEME DE SURVEILLANCE D'OPERATIONS DE FORAGE**
[72] THEMIG, DANIEL JON, CA
[73] PACKERS PLUS ENERGY SERVICES INC., CA
[85] 2014-11-07
[86] 2013-05-07 (PCT/CA2013/050354)
[87] (WO2013/166602)
[30] US (61/643,735) 2012-05-07

---

[11] **2,874,759**
[13] C
[51] **Int.Cl. C08L 77/00 (2006.01) C08K 3/01 (2018.01) C08K 7/02 (2006.01)**
[25] EN
[54] **THERMOPLASTIC POLYAMIDE MOULDING COMPOSITION**
[54] **COMPOSITION DE MOULAGE DE POLYAMIDE THERMOPLASTIQUE**
[72] STOPPELMANN, GEORG, CH
[73] EMS-PATENT AG, CH
[86] (2874759)
[87] (2874759)
[22] 2014-12-16
[30] EP (13 199 139.0) 2013-12-20

---

[11] **2,877,360**
[13] C
[51] **Int.Cl. H04W 4/50 (2018.01) H04W 24/00 (2009.01) H04W 64/00 (2009.01) H04B 17/318 (2015.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR CONTENT CONSUMPTION**
[54] **PROCEDES ET SYSTEMES CONCERNANT LA CONSOMMATION DE CONTENU**
[72] LARKIN, ANDREW, US
[72] ATHIAS, FRANKLYN, US
[73] COMCAST CABLE COMMUNICATIONS, LLC, US
[86] (2877360)
[87] (2877360)
[22] 2015-01-09
[30] US (14/151,467) 2014-01-09

---

[11] **2,883,165**
[13] C
[51] **Int.Cl. A01B 73/06 (2006.01)**
[25] EN
[54] **TOOLBAR SYSTEM FOR AN AGRICULTURAL IMPLEMENT**
[54] **DISPOSITIF DE BARRE D'OUTILS POUR UN ACCESSOIRE AGRICOLE**
[72] VAN MILL, MICHAEL D., US
[72] FLESHNER, RYAN J., US
[72] SCHLIMGEN, RONALD J., US
[73] UNVERFERTH MANUFACTURING COMPANY, INC., US
[86] (2883165)
[87] (2883165)
[22] 2015-02-26
[30] US (62/040,857) 2014-08-22
[30] US (14/612,849) 2015-02-03

---

[11] **2,884,294**
[13] C
[51] **Int.Cl. A61K 31/216 (2006.01) A61K 36/185 (2006.01) A61K 36/53 (2006.01) A61K 36/74 (2006.01) A61P 1/00 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **PLANT PHENOLS AND THEIR USE IN THE TREATMENT OR PREVENTION OF EOSINOPHILIC ESOPHAGITIS**
[54] **PHENOLS DE PLANTE ET LEUR UTILISATION DANS LE TRAITEMENT OU LA PREVENTION DE L'OESOPHAGITE A EOSINOPHILES**
[72] BLANCHARD, CARINE, CH
[72] HOLVOET, SEBASTIEN, CH
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2015-03-09
[86] 2013-09-23 (PCT/EP2013/069668)
[87] (WO2014/044836)
[30] EP (12185377.4) 2012-09-21

---

[11] **2,884,445**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **ROBOTIC KNEE TESTING (RKT) DEVICE HAVING DECOUPLED DRIVE CAPABILITY AND SYSTEMS AND METHODS PROVIDING THE SAME**
[54] **DISPOSITIF DE TEST DE GENOU ROBOTIQUE (RKT) AYANT UNE CAPACITE DE COMMANDE DECOUPLEE, ET SYSTEMES ET PROCEDES LE COMPRENANT**
[72] BRANCH, THOMAS P., US
[72] STINTON, SHAUN KEVIN, US
[72] MADDEN, THOMAS CHRISTOPHER, US
[72] DITTMAR, EDWARD, US
[72] DEJARNETTE, NATHANIEL K., US
[72] SHARY, TIMOTHY, US
[73] ROBODIAGNOSTICS LLC, US
[85] 2015-03-09
[86] 2013-09-17 (PCT/US2013/060229)
[87] (WO2014/043724)
[30] US (61/702,105) 2012-09-17

[11] **2,885,147**
[13] C
[51] **Int.Cl. B02C 1/02 (2006.01)**
[25] EN
[54] **MATERIAL PROCESSING APPARATUS WITH AUXILIARY DRIVE SYSTEM**
[54] **APPAREIL DE TRAITEMENT DE MATERIEL DOTE D'UN MECANISME D'ENTRAINEMENT AUXILIAIRE**
[72] HAMILTON, JAMIE, GB
[72] GILMOUR, ROBERT, GB
[73] TEREX GB LIMITED, GB
[86] (2885147)
[87] (2885147)
[22] 2015-03-13
[30] GB (1404863.1) 2014-03-18

---

[11] **2,887,240**
[13] C
[51] **Int.Cl. A01N 37/40 (2006.01) A01N 43/40 (2006.01) A01N 43/653 (2006.01) A01N 43/80 (2006.01) A01N 47/12 (2006.01) A01N 59/06 (2006.01) A01N 59/20 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **BIOCIDAL COMPOSITIONS COMPRISING IRON CHELATORS**
[54] **COMPOSITIONS BIOCIDES COMPORTANT DES CHELATEURS DU FER**
[72] POLSON, GEORGE, US
[72] JOURDEN, JODY, US
[72] ZHENG, QI, US
[72] PRIOLI, REGINA M., US
[72] CICCOGNANI, DIANA, US
[72] CHOI, SUNGMEE, US
[73] ARCH CHEMICALS, INC., US
[85] 2015-04-08
[86] 2013-10-14 (PCT/US2013/064851)
[87] (WO2014/059417)
[30] US (61/713,283) 2012-10-12

---

[11] **2,887,834**
[13] C
[51] **Int.Cl. H02M 1/32 (2007.01) H02M 1/00 (2007.10)**
[25] EN
[54] **SYSTEM AND METHOD FOR POWER CONVERSION**
[54] **SYSTEME ET PROCEDE DE CONVERSION D'ELECTRICITE**
[72] QU, BO, CN
[72] ZHANG, YINGQI, CN
[72] SHEN, JIE, CN
[72] CHEN, KUNLUN, CN
[72] ZHANG, YING, CN
[73] GENERAL ELECTRIC COMPANY, US
[86] (2887834)
[87] (2887834)
[22] 2015-04-16
[30] CN (201410156304.7) 2014-04-18

---

[11] **2,889,719**
[13] C
[51] **Int.Cl. H02G 3/02 (2006.01) H02G 3/08 (2006.01)**
[25] EN
[54] **JUNCTION ASSEMBLY AND WIRING DEVICE THEREFOR**
[54] **DISPOSITIF DE JOINTAGE ET DISPOSITIF DE CABLAGE ASSOCIE**
[72] LUEBKE, CHARLES JOHN, US
[72] FRAILING, JOSEPH E., US
[73] EATON INTELLIGENT POWER LIMITED, IE
[86] (2889719)
[87] (2889719)
[22] 2015-04-29
[30] US (14/446,935) 2014-07-30

---

[11] **2,893,344**
[13] C
[51] **Int.Cl. F23R 3/28 (2006.01) F02C 7/22 (2006.01) F23D 11/00 (2006.01) F23D 11/12 (2006.01) F23D 11/38 (2006.01)**
[25] EN
[54] **FUEL NOZZLE**
[54] **BUSE DE CARBURANT**
[72] WANG, YEN-WEN, CA
[72] DAVENPORT, NIGEL, CA
[72] HAWIE, EDUARDO, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (2893344)
[87] (2893344)
[22] 2015-06-02
[30] US (14/505,778) 2014-10-03

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[11] **2,893,535**
[13] C
[51] **Int.Cl. F16H 3/58 (2006.01) B60K 23/00 (2006.01) B60L 15/00 (2006.01) F16H 57/10 (2006.01)**
[25] EN
[54] **SEAMLESS TWO-SPEED TRANSMISSION FOR ELECTRIC VEHICLE**
[54] **TRANSMISSION DEUX VITESSES CONTINUE DESTINEE A UN VEHICULE ELECTRIQUE**
[72] BOULET, BENOIT, CA
[72] RAHIMI MOUSAVI, MIR SAMAN, CA
[72] VAHID ALIZADEH, HOSSEIN, CA
[72] PAKNIYAT, ALI, CA
[73] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING/MCGILL UNIVERSITY, CA
[86] (2893535)
[87] (2893535)
[22] 2015-06-03

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[11] **2,894,709**
[13] C
[51] **Int.Cl. A61K 31/202 (2006.01) A61K 36/05 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **EICOSAPENTAENOIC ACID (EPA) FORMULATIONS**
[54] **FORMULATIONS D'ACIDE EICOSAPENTAENOIQUE (EPA)**
[72] WAIBEL, BRIAN J., US
[72] SCHONEMANN, HANS, US
[72] KRUKONIS, VAL, US
[72] KAGAN, MICHAEL, IL
[73] QUALITAS HEALTH INC., US
[85] 2015-06-10
[86] 2013-12-18 (PCT/US2013/076178)
[87] (WO2014/105576)
[30] US (61/745,740) 2012-12-24
[30] US (13/797,802) 2013-03-12
[30] US (61/816,561) 2013-04-26

[11] **2,896,038**
[13] C
[51] **Int.Cl. C08L 71/02 (2006.01) A61K 31/728 (2006.01) A61K 47/30 (2006.01) A61P 17/02 (2006.01) C08K 5/101 (2006.01) C08L 1/28 (2006.01) C08L 5/08 (2006.01)**
[25] EN
[54] **POLYMER MATRIX COMPOSITIONS COMPRISING A HIGH CONCENTRATION OF BIO-FERMENTED SODIUM HYALURONATE AND USES THEREOF**
[54] **COMPOSITIONS DE MATRICE POLYMERE RENFERMANT UNE CONCENTRATION ELEVEE D'HYALLUONATE DE SODIUM BIO-FERMENTE ET LEURS UTILISATIONS**
[72] DRIZEN, KEVIN, CA
[72] VELUSAMY, JAI, CA
[73] GLYCOBIOSCIENCES INC., CA
[86] (2896038)
[87] (2896038)
[22] 2015-07-03

[11] **2,897,592**
[13] C
[51] **Int.Cl. F16D 3/78 (2006.01) F16D 3/28 (2006.01) F16D 3/48 (2006.01)**
[25] EN
[54] **FLEXIBLE COUPLING**
[54] **RACCORD FLEXIBLE**
[72] CHASE, IAN THOMAS, GB
[72] GANATRA, ANIEL TOM, GB
[73] CROMPTON TECHNOLOGY GROUP LIMITED, GB
[86] (2897592)
[87] (2897592)
[22] 2015-07-16
[30] GB (1414801.9) 2014-08-20

[11] **2,898,871**
[13] C
[51] **Int.Cl. H01L 31/06 (2012.01) C25B 15/08 (2006.01) G01T 1/167 (2006.01) G21H 1/00 (2006.01) G21H 1/06 (2006.01) H01G 9/035 (2006.01) H01M 14/00 (2006.01)**
[25] EN
[54] **RADIOLYTIC ELECTROCHEMICAL GENERATOR**
[54] **GENERATEUR ELECTROCHIMIQUE RADIOLYTIQUE**
[72] KWON, JAE WAN, US
[72] KIM, BAEK HYUN, US
[73] THE CURATORS OF THE UNIVERSITY OF MISSOURI, US
[85] 2015-07-21
[86] 2014-01-31 (PCT/US2014/014262)
[87] (WO2014/121121)
[30] US (61/849,660) 2013-01-31

[11] **2,899,961**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **METHODS TO PROTECT AGAINST AND TREAT MULTIPLE SCLEROSIS**
[54] **METHODES DE PROTECTION CONTRE LA SCLEROSE EN PLAQUES ET METHODES POUR LA TRAITER**
[72] VARTANIAN, TIMOTHY, US
[72] RUMAH, KAREEM RASHID, US
[72] FISCHETTI, VINCENT A., US
[73] CORNELL UNIVERSITY, US
[73] THE ROCKEFELLER UNIVERSITY, US
[85] 2015-07-30
[86] 2014-02-14 (PCT/US2014/016522)
[87] (WO2014/127258)
[30] US (61/764,836) 2013-02-14
[30] US (61/805,788) 2013-03-27

[11] **2,901,042**
[13] C
[51] **Int.Cl. G06F 9/46 (2006.01) G06F 8/70 (2018.01) G06F 12/02 (2006.01)**
[25] EN
[54] **NON-PRECISE GARBAGE COLLECTION IN NON-COOPERATIVE SYSTEMS**
[54] **COLLECTE DE REBUT NON PRECISE DANS LES SYSTEMES NON COOPERATIFS**
[72] KUMPERA, RODRIGO, US
[72] DE ICAZA, MIGUEL, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[86] (2901042)
[87] (2901042)
[22] 2015-08-18
[30] US (14/463,440) 2014-08-19

[11] **2,903,198**
[13] C
[51] **Int.Cl. A61B 17/068 (2006.01)**
[25] EN
[54] **HANDLING OF FASTENERS WITHIN A SURGICAL INSTRUMENT**
[54] **MANIPULATION D'ATTACHES DANS UN INSTRUMENT CHIRURGICAL**
[72] RANUCCI, KEVIN J., US
[72] CAULDWELL, NATHAN STEWART, US
[72] FELIX, AUGUSTUS, US
[73] C.R. BARD, INC., US
[85] 2015-08-31
[86] 2014-02-21 (PCT/US2014/017657)
[87] (WO2014/143525)
[30] US (13/826,979) 2013-03-14

[11] **2,903,649**
[13] C
[51] **Int.Cl. H04L 41/12 (2022.01) H04L 7/00 (2006.01) H04L 9/32 (2006.01) H04L 12/42 (2006.01) H04L 43/0864 (2022.01) H04L 43/10 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CREATING A TRUSTED CLOUD SECURITY ARCHITECTURE**
[54] **SYSTEME ET METHODE PERMETTANT DE CREER UNE ARCHITECTURE DE SECURITE NUAGIQUE DE CONFIANCE**
[72] MACKAY, ANDREW E.S., CA
[72] FRANSHAM, KYLE, CA
[73] SUPERNA INC., CA
[86] (2903649)
[87] (2903649)
[22] 2015-09-10
[30] US (62/049,060) 2014-09-11

[11] **2,905,628**
[13] C
[51] **Int.Cl. D21C 11/12 (2006.01)**
[25] EN
[54] **ARRANGEMENT AND METHOD IN SODA RECOVERY BOILER**
[54] **DISPOSITIF ET METHODE DESTINES A UNE CHAUDIERE DE RECUPERATION DE SODA**
[72] NYMAN, JUSSI, FI
[72] HAAGA, KARI, FI
[72] RAJALA, TAISTO, FI
[73] VALMET TECHNOLOGIES OY, FI
[86] (2905628)
[87] (2905628)
[22] 2015-09-28
[30] FI (20145866) 2014-10-03

[11] **2,906,613**
[13] C
[51] **Int.Cl. B41J 3/60 (2006.01) G06Q 30/02 (2012.01) G07G 5/00 (2006.01) G09F 23/10 (2006.01)**
[25] EN
[54] **COMBINATION PRINTER AND ITS PAPER**
[54] **IMPRIMANTE MIXTE ET SON PAPIER**
[72] BYERLY, BAXTER, US
[72] MOUNT, JEFF, US
[73] CATALINA MARKETING CORPORATION, US
[86] (2906613)
[87] (2906613)
[22] 2006-08-07
[62] 2,624,622
[30] US (60/742908) 2005-12-07
[30] US (60/778410) 2006-03-03
[30] US (11/488126) 2006-07-18

[11] **2,909,381**
[13] C
[51] **Int.Cl. F16K 49/00 (2006.01) B64D 15/00 (2006.01) F02C 6/18 (2006.01)**
[25] EN
[54] **HEATED VALVE**
[54] **VANNE CHAUFFEE**
[72] FAHRNER, ALAN J., US
[72] PUDOKA, RICK, US
[73] GOODRICH CORPORATION, US
[86] (2909381)
[87] (2909381)
[22] 2015-10-16
[30] US (14/567,155) 2014-12-11

[11] **2,909,643**
[13] C
[51] **Int.Cl. G01D 9/00 (2006.01) H04W 4/38 (2018.01) G01K 13/00 (2021.01) H04W 4/80 (2018.01) G01K 1/024 (2021.01)**
[25] EN
[54] **SENSING DEVICE AND METHOD TO MONITOR PERISHABLE GOODS**
[54] **DISPOSITIF ET PROCEDE DE DETECTION PERMETTANT DE SURVEILLER DES MARCHANDISES PERISSABLES**
[72] STEELE, SARA, US
[72] WARKENTIN, COLIN, CA
[72] DILALLA, CHRIS, CA
[72] WOJTOWICZ, MIREK, CA
[73] DIGI INTERNATIONAL CANADA INC., US
[85] 2015-10-16
[86] 2014-04-15 (PCT/CA2014/000354)
[87] (WO2014/169375)
[30] CA (2813285) 2013-04-18

[11] **2,912,230**
[13] C
[51] **Int.Cl. H04W 76/14 (2018.01) H04W 4/30 (2018.01) H04W 4/80 (2018.01) F21V 99/00 (2006.01)**
[25] EN
[54] **DYNAMIC CONFIGURATION FOR A WIRELESS PERIPHERAL DEVICE**
[54] **CONFIGURATION DYNAMIQUE DESTINEE A UN DISPOSITIF PERIPHERIQUE SANS FIL**
[72] CHEN, TIMOTHY, US
[72] CAIRNS, DUSTIN, US
[73] TECHNICAL CONSUMER PRODUCTS, INC., US
[86] (2912230)
[87] (2912230)
[22] 2015-11-18
[30] US (14/561,598) 2014-12-05

[11] **2,913,237**
[13] C
[51] **Int.Cl. H04B 10/2581 (2013.01) G02B 6/00 (2006.01)**
[25] EN
[54] **PASSIVE DISTRIBUTION SYSTEM USING FIBER INDEXING**
[54] **SYSTEME DE DISTRIBUTION PASSIVE FAISANT APPEL A L'INDEXAGE DE FIBRES**
[72] KMIT, PAUL, US
[72] PARSONS, THOMAS, US
[72] GRONVALL, ERIK, US
[72] ELLENS, DOUGLAS C., US
[72] TOUNDAS, PANAYIOTIS, CA
[72] BADAR, TIMOTHY G., US
[72] SMITH, TREVOR D., US
[72] LEBLANC, THOMAS G., US
[72] LOEFFELHOLZ, TODD A., US
[73] ADC TELECOMMUNICATIONS, INC., US
[85] 2015-11-20
[86] 2014-05-23 (PCT/US2014/039377)
[87] (WO2014/190281)
[30] US (61/826,655) 2013-05-23
[30] US (61/971,390) 2014-03-27

[11] **2,913,577**
[13] C
[51] **Int.Cl. F16L 15/00 (2006.01) E21B 17/042 (2006.01)**
[25] EN
[54] **ASSEMBLY FOR PRODUCING A THREADED CONNECTION FOR DRILLING AND OPERATING HYDROCARBON WELLS, THREADED CONNECTION, AND METHOD FOR PRODUCING SUCH A THREADED CONNECTION**
[54] **ENSEMBLE PERMETTANT DE REALISER UN RACCORD FILETE A DES FINS DE FORAGE ET D'EXPLOITATION DE PUITS D'HYDROCARBURES, RACCORD FILETE, ET PROCEDE PERMETTANT DE REALISER UN TEL RACCORD FILETE**
[72] MARTIN, PIERRE BERNARD, FR
[72] COLIN, SEBASTIEN, FR
[72] MENCAGLIA, XAVIER, FR
[72] RUFFIN, KARINE, FR
[73] VALLOUREC OIL AND GAS FRANCE, FR
[73] NIPPON STEEL CORPORATION, JP
[85] 2015-11-25
[86] 2014-06-17 (PCT/EP2014/062627)
[87] (WO2014/202555)
[30] FR (1355760) 2013-06-19

[11] **2,913,634**
[13] C
[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/496 (2006.01) A61K 31/498 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61P 19/04 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF FIBROSIS**
[54] **INHIBITEURS DE FIBROSE A PETITES MOLECULES**
[72] LAIRSON, LUKE, US
[72] BOLLONG, MICHAEL, US
[72] SCHULTZ, PETER G., US
[72] CHATTERJEE, ARNAB K., US
[72] YANG, BAIYUAN, US
[72] KUMAR, PUNEET, US
[72] URKALAN, KAVERI, US
[73] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2015-11-25
[86] 2014-06-05 (PCT/US2014/041174)
[87] (WO2014/197738)
[30] US (61/832,768) 2013-06-07

[11] **2,916,895**
[13] C
[51] **Int.Cl. C07K 16/24 (2006.01)**
[25] EN
[54] **HUMAN ANTI-IL-32 ANTIBODIES**
[54] **ANTICORPS ANTI-IL-32 HUMAINS**
[72] HAYDAY, ADRIAN, GB
[72] KISAND, KAI, EE
[72] KROHN, KAI, FI
[72] MACAGNO, ANNALISA, CH
[72] ONUOHA, SHIMOBI, GB
[72] PETERSON, PART, EE
[72] ROTHE, MIKE, DE
[72] WOODWARD, MARTIN, GB
[72] HAQUE, SYEDA F. Y., GB
[73] IMMUNOQURE AG, DE
[85] 2015-12-24
[86] 2014-07-03 (PCT/EP2014/064163)
[87] (WO2015/001010)
[30] EP (13174937.6) 2013-07-03

[11] **2,917,251**
[13] C
[51] **Int.Cl. C09D 5/18 (2006.01)**
[25] EN
[54] **INTUMESCENT COATING COMPOSITION**
[54] **COMPOSITION DE REVETEMENT INTUMESCENT**
[72] BUTLER, RACHEL, GB
[72] KITTLE, KEVIN JEFFREY, GB
[72] HOPE, THOMAS WILLIAM, GB
[73] AKZO NOBEL COATINGS INTERNATIONAL B.V., NL
[85] 2016-01-04
[86] 2014-07-11 (PCT/EP2014/064893)
[87] (WO2015/007629)
[30] EP (13176656.0) 2013-07-16

[11] **2,918,620**
[13] C
[51] **Int.Cl. G06Q 10/10 (2012.01) G06F 3/14 (2006.01)**
[25] EN
[54] **MANAGING PERMISSIONS IN COLLABORATIVE WORKSPACES USING VISUAL REPRESENTATIONS OF CLIENTS**
[54] **GESTION DES PERMISSIONS DANS LES ESPACES DE TRAVAIL PARTAGES AU MOYEN DE REPRESENTATIONS VISUELLES DES CLIENTS**
[72] XIN, MIN, CA
[72] HUIZING, ERIK DANIEL, CA
[72] MANARANG, ELIEZER MAR YUMOL, CA
[72] ALLEN, KEITH MATTHEW, CA
[72] BROOKS, ALLEN, US
[72] CHOW, SANDRA, CA
[73] SMART TECHNOLOGIES ULC, CA
[86] (2918620)
[87] (2918620)
[22] 2016-01-22
[30] US (14/620,224) 2015-02-12

[11] **2,919,992**
[13] C
[51] **Int.Cl. A61K 38/07 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR PREVENTING OR TREATING LEBER'S HEREDITARY OPTIC NEUROPATHY**
[54] **METHODES ET COMPOSITIONS POUR PREVENIR OU TRAITER LA NEUROPATHIE OPTIQUE HEREDITAIRE DE LEBER**
[72] WILSON, D. TRAVIS, US
[73] STEALTH BIOTHERAPEUTICS INC., US
[85] 2016-01-29
[86] 2014-08-01 (PCT/US2014/049410)
[87] (WO2015/017781)
[30] US (61/861,244) 2013-08-01

[11] **2,920,019**
[13] C
[51] **Int.Cl. C21D 1/18 (2006.01) C21D 1/667 (2006.01)**
[25] EN
[54] **SPRAY QUENCH SYSTEMS FOR HEAT TREATED METAL PRODUCTS**
[54] **SYSTEMES DE TREMPE PAR PULVERISATION DESTINES A DES PRODUITS METALLIQUES TRAITES THERMIQUEMENT**
[72] NALLEN, MICHAEL A., US
[72] SCOTT, PAUL F., US
[73] THERMATOOL CORP., US
[85] 2016-01-29
[86] 2014-08-03 (PCT/US2014/049512)
[87] (WO2015/020915)
[30] US (13/958,581) 2013-08-04

[11] **2,920,274**
[13] C
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **A CARGO SHIPMENT ROUTE DETERMINATION APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE DETERMINATION DU TRAJET D'EXPEDITION D'UNE CARGAISON**
[72] SCHREIBER, ZVI, IL
[73] FREIGHTOS LTD., IL
[85] 2016-02-02
[86] 2014-03-10 (PCT/IL2014/050239)
[87] (WO2015/019340)
[30] US (61/863,100) 2013-08-07

[11] **2,920,417**
[13] C
[51] **Int.Cl. G01N 33/569 (2006.01) C07K 16/12 (2006.01)**
[25] EN
[54] **METHOD FOR THE DETECTION OF AN IMMUNE RESPONSE AGAINST FLID AND ITS USE AS A BIOMARKER FOR H. PYLORI INFECTION**
[54] **PROCEDE DE DETECTION D'UNE REPONSE IMMUNITAIRE CONTRE FLID ET SON UTILISATION EN TANT QUE BIOMARQUEUR D'UNE INFECTION PAR H. PYLORI**
[72] GERHARD, MARKUS, DE
[72] KALALI, BEHNAM, DE
[72] FORMICHELLA, LUCA, DE
[72] KHALIFE-GHOLI, MOHAMMAD, IR
[73] TECHNISCHE UNIVERSITAT MUNCHEN, DE
[85] 2016-02-03
[86] 2014-08-13 (PCT/EP2014/002230)
[87] (WO2015/022075)
[30] EP (13004038.9) 2013-08-13

[11] **2,921,110**
[13] C
[51] **Int.Cl. G07G 1/00 (2006.01) G06Q 20/20 (2012.01)**
[25] EN
[54] **METHOD FOR PROCESSING TRANSACTIONAL DATA, TERMINAL, SERVER AND CORRESPONDING COMPUTER PROGRAMS**
[54] **METHODE DE TRAITEMENT DE DONNEES TRANSACTIONNELLES, TERMINAL, SERVEUR ET PROGRAMMES D'ORDINATEUR CORRESPONDANTS**
[72] DUCROHET, VINCENT, FR
[73] INGENICO GROUP, FR
[85] 2016-02-11
[86] 2014-09-26 (PCT/EP2014/070704)
[87] (WO2015/044393)
[30] FR (1359350) 2013-09-27

[11] **2,923,230**
[13] C
[51] **Int.Cl. A61N 1/32 (2006.01) A61B 5/00 (2006.01) A61B 5/01 (2006.01)**
[25] EN
[54] **TECHNIQUE FOR DETERMINING OPTIMUM TREATMENT PARAMETERS**
[54] **TECHNIQUE POUR DETERMINER DES PARAMETRES DE TRAITEMENT OPTIMAUX**
[72] RHODES, DONALD A., US
[73] RHODES, DONALD A., US
[85] 2016-03-04
[86] 2013-09-13 (PCT/US2013/000211)
[87] (WO2014/042670)
[30] US (61/744,085) 2012-09-17

[11] **2,926,953**
[13] C
[51] **Int.Cl. G06F 40/20 (2020.01) G09B 5/00 (2006.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR ANALYZING A PIECE OF TEXT**
[54] **UNE METHODE ET UN SYSTEME D'ANALYSE D'UN MORCEAU DE TEXTE**
[72] LEUNG, WAI FUNG, HK
[73] CHRYSUS INTELLECTUAL PROPERTIES LIMITED, CN
[86] (2926953)
[87] (2926953)
[22] 2016-04-12
[30] HK (15111493.2) 2015-11-20

[11] **2,927,917**
[13] C
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **HETEROAROMATIC COMPOUNDS USEFUL FOR THE TREATMENT OF PROLIFERATIVE DISEASES**
[54] **COMPOSES HETEROAROMATIQUES UTILES POUR LE TRAITEMENT DES MALADIES PROLIFERATIVES**
[72] CIBLAT, STEPHANE, CA
[72] DEROY, PATRICK, CA
[72] GRAY, NATHANAEL, US
[72] LEBLANC, MELISSA, CA
[72] MARINEAU, JASON J., US
[72] MOORE, JOEL, US
[72] SPROTT, KEVIN, US
[72] ZHANG, TINGHU, US
[72] SIDDIQUI, M. ARSHAD, US
[72] KABRO, ANZHELIKA, CA
[72] LEGER, SERGE, US
[72] MILLER, TOM, CA
[72] ROY, STEPHANIE, CA
[72] SCHMIDT, DARBY, US
[72] WINTER, DANA K., CA
[72] BRADLEY, MICHAEL, US
[73] SYROS PHARMACEUTICALS, INC., US
[73] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2016-04-18
[86] 2014-10-17 (PCT/US2014/061206)
[87] (WO2015/058126)
[30] US (61/892,842) 2013-10-18

[11] **2,928,849**
[13] C
[51] **Int.Cl. B60F 5/00 (2006.01) B62D 21/00 (2006.01) B62D 21/18 (2006.01) B62K 7/02 (2006.01)**
[25] EN
[54] **UTILITY VEHICLE**
[54] **VEHICULE UTILITAIRE**
[72] PETERSON, SHAWN D., US
[72] HOUKOM, AUSTIN L., US
[73] POLARIS INDUSTRIES INC., US
[86] (2928849)
[87] (2928849)
[22] 2016-05-04
[30] US (14/965226) 2015-12-10

[11] **2,929,188**
[13] C
[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/517 (2006.01) C07D 239/88 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 417/12 (2006.01)**
[25] EN
[54] **QUINAZOLINE DERIVATIVES AS TAM FAMILY KINASE INHIBITORS**
[54] **DERIVES DE QUINAZOLINE SERVANT D'INHIBITEURS DES KINASES DE LA FAMILLE TAM**
[72] ZHANG, ZAIHUI, CA
[73] SIGNALCHEM LIFESCIENCES CORP., CA
[85] 2016-04-28
[86] 2014-11-19 (PCT/US2014/066467)
[87] (WO2015/077375)
[30] US (61/906,779) 2013-11-20

[11] **2,929,964**
[13] C
[51] **Int.Cl. E02D 29/02 (2006.01) E04B 2/18 (2006.01) E04B 2/44 (2006.01) E04C 5/16 (2006.01)**
[25] EN
[54] **BRIDGE SYSTEM FOR MULTI-STAGE WALLS**
[54] **SYSTEME DE RACCORDEMENT POUR MURS EN GRADINS**
[72] DEAN, PATRICK E., US
[72] CURRY, DANIEL J., US
[72] KEMPAINEN, MATTHEW J., US
[72] MOUA, KONG CHENG, US
[72] STONEBURNER, MICHAEL, US
[72] SYLVESTRE, DANIEL, US
[73] DEAN HOLDING CORPORATION, US
[85] 2016-05-06
[86] 2014-12-06 (PCT/US2014/068965)
[87] (WO2015/085282)
[30] US (61/913,278) 2013-12-07

[11] **2,932,308**
[13] C
[51] **Int.Cl. G01B 11/06 (2006.01) G01S 17/88 (2006.01)**
[25] EN
[54] **CALIPER SENSOR AND METHOD USING MID-INFRARED INTERFEROMETRY**
[54] **CAPTEUR DE MICROMETRE ET PROCEDE D'UTILISATION D'INTERFEROMETRIE EN INFRAROUGE (IR) MOYEN**
[72] TIXIER, SEBASTIEN, US
[72] HUGUES, MICHAEL KON YEW, US
[72] SAVARD, STEPHANE, US
[73] HONEYWELL LIMITED, CA
[85] 2016-06-01
[86] 2014-11-18 (PCT/CA2014/000835)
[87] (WO2015/085396)
[30] US (14/103,733) 2013-12-11

[11] **2,932,578**
[13] C
[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 20/06 (2012.01)**
[25] EN
[54] **TRACKING OFFERS ACROSS MULTIPLE CHANNELS**
[54] **SUIVI D'OFFRES DANS DE MULTIPLES CANAUX**
[72] GEORGOFF, MICHAEL THOMAS, US
[72] SHOWERS, BRIAN KEITH, US
[72] SONG, JIMMY JAEJOON, US
[72] PILE, JOHN THOMAS, US
[72] DAPREMONT, EDGAR MITCHELL, US
[73] RETAILMENOT, INC., US
[85] 2016-06-02
[86] 2014-09-24 (PCT/US2014/057218)
[87] (WO2015/048134)
[30] US (61/882,130) 2013-09-25

[11] **2,932,625**
[13] C
[51] **Int.Cl. F21K 9/23 (2016.01) F21K 9/235 (2016.01) F21K 9/237 (2016.01) F21K 9/238 (2016.01) F21V 21/008 (2006.01)**
[25] EN
[54] **LIGHTING ARRANGEMENT**
[54] **DISPOSITIF D'ECLAIRAGE**
[72] YANG, SHAOKUN, CA
[73] KUZCO LIGHTING, CA
[86] (2932625)
[87] (2932625)
[22] 2016-06-10
[30] US (14/960,529) 2015-12-07

[11] **2,933,662**
[13] C
[51] **Int.Cl. E01H 4/02 (2006.01)**
[25] EN
[54] **SNOW GROOMER OR OTHER TRACKED VEHICLE AND SYSTEMS THEREFOR**
[54] **DAMEUSE A NEIGE OU AUTRE VEHICULE CHENILLE ET SYSTEMES ASSOCIES**
[72] THIBAULT, JONATHAN, CA
[72] KIRCHMAIR, MARTIN, CA
[72] PELLETIER, MICHEL, CA
[72] HEBERT, PATRICK, CA
[72] GENDRON, FRANCIS, CA
[72] AUTHIER, ARIANE, CA
[72] BERGERON, STEPHANE, CA
[72] PAQUET, FRANCOIS, CA
[73] PRINOTH LTD., CA
[85] 2016-06-13
[86] 2014-11-18 (PCT/IB2014/066138)
[87] (WO2015/087181)
[30] US (61/914,837) 2013-12-11

[11] **2,934,136**
[13] C
[51] **Int.Cl. A61M 16/04 (2006.01)**
[25] EN
[54] **INTUBATING AIRWAY DEVICE**
[54] **DISPOSITIF D'INTUBATION DES VOIES AERIENNES**
[72] KEMP, JANE ELIZABETH, GB
[72] MILLER, ANDREW NEIL, GB
[72] NASIR, MUHAMMED ASLAM, GB
[73] INTERSURGICAL AG, LI
[73] NASIR, MUHAMMED ASLAM, GB
[85] 2016-06-16
[86] 2014-12-17 (PCT/GB2014/053744)
[87] (WO2015/092404)
[30] GB (1322328.4) 2013-12-17

[11] **2,935,457**
[13] C
[51] **Int.Cl. G06T 17/05 (2011.01) B64C 39/02 (2006.01) B64D 47/08 (2006.01)**
[25] EN
[54] **UNMANNED AIRCRAFT STRUCTURE EVALUATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'EVALUATION DE STRUCTURE D'AERONEF SANS PILOTE**
[72] SCHULTZ, STEPHEN L., US
[72] MONACO, JOHN, US
[73] PICTOMETRY INTERNATIONAL CORP., US
[85] 2016-06-28
[86] 2015-01-07 (PCT/US2015/010496)
[87] (WO2015/105886)
[30] US (61/926,137) 2014-01-10

[11] **2,935,666**
[13] C
[51] **Int.Cl. A61F 9/009 (2006.01)**
[25] EN
[54] **LUMINESCENT OPHTHALMIC DEVICE**
[54] **DISPOSITIF OPHTALMIQUE LUMINESCENT**
[72] FINGER, PAUL T., US
[72] WELLES, TOBY, US
[73] IP LIBERTY VISION CORPORATION, US
[85] 2016-06-30
[86] 2014-12-04 (PCT/US2014/068471)
[87] (WO2015/102800)
[30] US (61/922,463) 2013-12-31

[11] **2,936,493**
[13] C
[51] **Int.Cl. A61K 9/14 (2006.01) A61K 9/51 (2006.01) A61K 38/16 (2006.01) A61K 38/28 (2006.01) A61K 47/26 (2006.01)**
[25] EN
[54] **NANOENCAPSULATION OF HYDROPHILIC ACTIVE COMPOUNDS**
[54] **NANOENCAPSULATION DE COMPOSES HYDROPHILES ACTIFS**
[72] BENITA, SIMON, IL
[72] NASSAR, TAHER, IL
[72] KOCHAVI-SOUDRY, LIAT, IL
[73] YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD., IL
[85] 2016-07-11
[86] 2015-01-26 (PCT/IL2015/050091)
[87] (WO2015/111062)
[30] US (61/931,910) 2014-01-27
[30] US (62/080,607) 2014-11-17

[11] **2,936,654**
[13] C
[51] **Int.Cl. G21C 17/07 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING SENSITIVITY OF A SIPPING SYSTEM**
[54] **SYSTEME ET PROCEDE PERMETTANT D'AMELIORER LA SENSIBILITE D'UN SYSTEME DE RESSUAGE**
[72] ARGUELLES, DAVID, US
[72] VARRIN, ROBERT D., US
[73] DOMINION ENGINEERING, INC., US
[85] 2016-07-12
[86] 2015-01-16 (PCT/US2015/011752)
[87] (WO2015/109182)
[30] US (61/928,301) 2014-01-16

[11] **2,937,379**
[13] C
[51] **Int.Cl. A61B 6/02 (2006.01) A61B 6/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING AND DISPLAYING TOMOSYNTHESIS IMAGE SLABS**
[54] **SYSTEME ET PROCEDE DE PRODUCTION ET D'AFFICHAGE DE DALLES D'IMAGE DE TOMOSYNTHESE**
[72] GKANATSIOS, NIKOLAOS, US
[72] CHUI, HAILI, US
[72] ZHANG, XIANGWEI, US
[73] HOLOGIC, INC., US
[85] 2016-07-19
[86] 2015-02-26 (PCT/US2015/017713)
[87] (WO2015/130916)
[30] US (61/946,417) 2014-02-28

[11] **2,937,744**
[13] C
[51] **Int.Cl. A61M 25/06 (2006.01)**
[25] EN
[54] **SELF-PRIMING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES D'AUTO-AMORCAGE**
[72] CHHIKARA, BHUPINDER, US
[72] LINGUTLA, SRINATH, US
[72] EADS, BRANDON, US
[73] ICU MEDICAL, INC., US
[85] 2016-07-21
[86] 2015-02-03 (PCT/US2015/014240)
[87] (WO2015/119940)
[30] US (61/935,802) 2014-02-04

[11] **2,938,187**
[13] C
[51] **Int.Cl. C07D 239/48 (2006.01)**
[25] EN
[54] **SOLID FORMS OF 2-(TERT-BUTYLAMINO)-4-((1R,3R,4R)-3-HYDROXY-4-METHYLCYCLOHEXYLAMINO)-PYRIMIDINE-5-CARBOXAMIDE, COMPOSITIONS THEREOF AND METHODS OF THEIR USE**
[54] **FORMES SOLIDES DE 2-(TERT-BUTYLAMINO)-4-((1R,3R,4R)-3-HYDROXY-4-METHYLCYCLOHEXYLAMINO)-PYRIMIDINE-5-CARBOXAMIDE, COMPOSITIONS LES COMPRENANT ET PROCEDES POUR LES UTILISER**
[72] FERRETTI, ANTONIO CHRISTIAN, US
[72] MAN, HON-WAH, US
[72] MUSLEHIDDINOGLU, JALE, US
[72] XU, JEAN, US
[72] YONG, KELVIN HIN-YEONG, US
[72] BEAUCHAMPS, MARIE GEORGES, US
[72] KOTHARE, MOHIT ATUL, US
[72] ZOU, NANFEI, US
[72] BOERSEN, NATHAN ANDREW, US
[72] LI, YING, US
[72] HILGRAF, ROBERT, US
[72] NAGY, MARK A., US
[72] ZOU, DAOZHONG, US
[72] HUANG, LIANFENG, US
[73] SIGNAL PHARMACEUTICALS, LLC, US
[85] 2016-07-27
[86] 2015-01-29 (PCT/US2015/013412)
[87] (WO2015/116755)
[30] US (61/933,636) 2014-01-30
[30] US (62/025,161) 2014-07-16

[11] **2,938,489**
[13] C
[51] **Int.Cl. F25B 9/14 (2006.01)**
[25] EN
[54] **STIR-CYCLE MOTOR**
[54] **MOTEUR A CYCLE DE MELANGE**
[72] HOLLISTER, MICHAEL CHRISTOPHER, US
[73] HEATCRAFT REFRIGERATION PRODUCTS LLC, US
[86] (2938489)
[87] (2938489)
[22] 2016-08-09
[30] US (14/833,915) 2015-08-24

[11] **2,938,787**
[13] C
[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/315 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **SEMI DISPOSABLE AUTO INJECTOR**
[54] **AUTO-INJECTEUR SEMI-JETABLE**
[72] ZUCKER, MENACHEM, IL
[72] RADAY, LIOR, IL
[72] DAILY, DAVID, IL
[73] E3D AGRICULTURAL COOPERATIVE ASSOCIATION LTD, IL
[85] 2016-08-04
[86] 2015-02-10 (PCT/IL2015/050155)
[87] (WO2015/118550)
[30] US (61/937,681) 2014-02-10

[11] **2,939,071**
[13] C
[51] **Int.Cl. A01N 25/08 (2006.01) A01N 25/12 (2006.01) A01N 25/26 (2006.01) A01N 37/10 (2006.01) A01N 37/40 (2006.01) A01N 43/40 (2006.01) A01N 43/42 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **A STABLE SOLID POTASSIUM CARBOXYLIC ACID HERBICIDE SALT DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION DE SEL HERBICIDE D'ACIDE CARBOXYLIQUE A POTASSIUM SOLIDE STABLE**
[72] BUTTIMOR, ROBERT, NZ
[73] CORTEVA AGRISCIENCE LLC, US
[85] 2016-08-08
[86] 2015-02-09 (PCT/NZ2015/050010)
[87] (WO2015/119514)
[30] NZ (621067) 2014-02-10

[11] **2,939,907**
[13] C
[51] **Int.Cl. D04H 1/4374 (2012.01) D04H 13/00 (2006.01)**
[25] EN
[54] **SCOURING ARTICLE AND METHODS OF MAKING AND USING**
[54] **ARTICLE DE RECURAGE ET PROCEDES DE FABRICATION ET D'UTILISATION**
[72] ENDLE, JAMES P., US
[72] BRANDNER, JOHN M., US
[72] CARLSON, LAUREN K., US
[72] MAKI, ROBERT J., US
[72] SANOCKI, STEPHEN M., US
[73] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2016-08-16
[86] 2015-02-16 (PCT/US2015/016046)
[87] (WO2015/123635)
[30] US (61/940,580) 2014-02-17

[11] **2,940,148**
[13] C
[51] **Int.Cl. C04B 35/571 (2006.01) C04B 35/622 (2006.01) C04B 35/626 (2006.01) C04B 35/628 (2006.01) C08G 77/60 (2006.01) C08G 77/62 (2006.01) C08J 3/24 (2006.01) D01D 5/08 (2006.01) D01D 5/096 (2006.01) D01F 9/10 (2006.01)**
[25] EN
[54] **METHOD FOR CURING OF GREEN POLYSILAZANE-BASED SILICON CARBIDE PRECURSOR FIBERS**
[54] **PROCEDE POUR DURCIR DES FIBRES CRUES DE POLYSILAZANE PRECURSEURS DE CARBURE DE SILICIUM**
[72] MILLS, RYAN CHRISTOPHER, US
[72] DAVIS, PETER KENNEDY, US
[72] LITTLEJOHN, MATTHEW HAL, US
[72] RUBINSZTAJN, SLAWOMIR, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2016-08-18
[86] 2015-02-20 (PCT/US2015/016768)
[87] (WO2015/130564)
[30] US (14/193,158) 2014-02-28

[11] **2,940,228**
[13] C
[51] **Int.Cl. A61F 5/445 (2006.01) A61B 5/03 (2006.01) A61B 17/11 (2006.01) A61F 2/00 (2006.01) A61M 1/00 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **IMPLANTABLE INTESTINAL CONTENTS FLOW CONTROL DEVICE**
[54] **DISPOSITIF DE CONTROLE DU FLUX DE CONTENU INTESTINAL IMPLANTABLE**
[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[86] (2940228)
[87] (2940228)
[22] 2008-10-10
[62] 2,739,863
[30] US (60/960,715) 2007-10-11
[30] US (60/960,716) 2007-10-11
[30] US (60/960,766) 2007-10-12

[11] **2,941,186**
[13] C
[51] **Int.Cl. A01K 97/01 (2006.01) A01K 97/10 (2006.01)**
[25] EN
[54] **ICE FISHING STAND**
[54] **SUPPORT DE PECHE BLANCHE**
[72] ZVEZDONKIN, VOLODYMYR, CA
[73] ZVEZDONKIN, VOLODYMYR, CA
[86] (2941186)
[87] (2941186)
[22] 2016-09-07
[30] US (14/849,170) 2015-09-09

[11] **2,941,737**
[13] C
[51] **Int.Cl. D21C 9/147 (2006.01) D21C 3/02 (2006.01) D21C 9/00 (2006.01) D21C 9/16 (2006.01) D21H 11/20 (2006.01)**
[25] EN
[54] **A LOW VISCOSITY KRAFT FIBER HAVING AN ENHANCED CARBOXYL CONTENT AND METHODS OF MAKING AND USING THE SAME**
[54] **FIBRE KRAFT A FAIBLE VISCOSITE A TENEUR ACCRUE EN CARBOXYLE, PROCEDES DE PRODUCTION ET UTILISATION**
[72] NONNI, ARTHUR J., US
[72] COURCHENE, CHARLES E., US
[72] CARTER, BLAIR RODERICK, US
[73] GP CELLULOSE GMBH, CH
[85] 2016-09-06
[86] 2015-03-09 (PCT/US2015/019479)
[87] (WO2015/138335)
[30] IB (PCT/IB2014/001272) 2014-03-12

[11] **2,942,037**
[13] C
[51] **Int.Cl. F15B 7/00 (2006.01) A61H 9/00 (2006.01) A63H 11/00 (2006.01) A63H 13/00 (2006.01) A63H 29/00 (2006.01) F04B 17/03 (2006.01) F15B 7/08 (2006.01) H02K 41/02 (2006.01)**
[25] EN
[54] **METHODS AND DEVICES TO HYDRAULIC CONSUMER DEVICES**
[54] **PROCEDES ET DISPOSITIFS ASSOCIES A DES DISPOSITIFS HYDRAULIQUES DE CONSOMMATION COURANTE**
[72] MURISON, BRUCE D., CA
[73] OBOTICS INC., CA
[85] 2016-09-09
[86] 2015-03-11 (PCT/CA2015/000159)
[87] (WO2015/135070)
[30] US (61/950,980) 2014-03-11

[11] **2,942,488**
[13] C
[51] **Int.Cl. B62M 3/02 (2006.01) A63B 22/06 (2006.01) A63B 22/08 (2006.01) A63B 69/16 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM, AND METHOD FOR PROVIDING ADJUSTABLE CRANKS IN AN EXERCISE DEVICE**
[54] **APPAREIL, SYSTEME ET PROCEDE POUR DISPOSER DES MANIVELLES REGLABLES DANS UN DISPOSITIF D'EXERCICE**
[72] NEILL, STEVE, US
[72] BEARD, DAVID, US
[72] CORNEJO, VICTOR, US
[73] CORE HEALTH & FITNESS, LLC, US
[85] 2016-09-12
[86] 2015-03-13 (PCT/US2015/020618)
[87] (WO2015/139006)
[30] US (61/952,645) 2014-03-13

[11] **2,943,042**
[13] C
[51] **Int.Cl. A61F 2/38 (2006.01)**
[25] EN
[54] **PROSTHESIS COMPONENT WITH OFFSET ADJUSTABILITY**
[54] **COMPOSANT DE PROTHESE AVEC REGLAGE DE DECALAGE**
[72] ANGIBAUD, LAURENT, US
[72] ALVAREZ, LUIS, US
[73] EXACTECH, INC., US
[85] 2016-09-16
[86] 2015-03-12 (PCT/US2015/020170)
[87] (WO2015/138720)
[30] US (61/951,957) 2014-03-12
[30] US (61/980,099) 2014-04-16

[11] **2,943,219**
[13] C
[51] **Int.Cl. E21B 33/138 (2006.01) C09K 8/80 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING SUBTERRANEAN FORMATION**
[54] **PROCEDE DE TRAITEMENT D'UNE FORMATION SOUTERRAINE**
[72] KRAEMER, CHAD, US
[72] BADAZHKOV, DMITRY, RU
[72] LECERF, BRUNO, US
[72] ALEKSEEV, ALEXEY, RU
[72] KAPRIELOVA, KSENIA, RU
[73] SCHLUMBERGER CANADA LIMITED, CA
[85] 2016-09-16
[86] 2015-03-30 (PCT/US2015/023282)
[87] (WO2015/153423)
[30] US (61/973,033) 2014-03-31
[30] US (14/486,720) 2014-09-15

[11] **2,943,266**
[13] C
[51] **Int.Cl. E21B 47/007 (2012.01) E21B 47/008 (2012.01) F04B 47/02 (2006.01) F04B 49/06 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS TO DETERMINE PRODUCTION OF DOWNHOLE PUMPS**
[54] **PROCEDE ET APPAREIL PERMETTANT DE DETERMINER LA PRODUCTION DE POMPES DE FOND DE TROU**
[72] MILLS, THOMAS MATTHEW, US
[73] BRISTOL, INC., D/B/A REMOTE AUTOMATION SOLUTIONS, US
[85] 2016-09-19
[86] 2015-04-01 (PCT/US2015/023763)
[87] (WO2015/149083)

[11] **2,943,499**
[13] C
[51] **Int.Cl. C01B 33/24 (2006.01) B01D 53/14 (2006.01)**
[25] EN
[54] **POWDERED TOBERMORITE-TYPE CALCIUM SILICATE-BASED MATERIAL AND METHOD FOR PRODUCING SAME**
[54] **MATERIAU EN POUDRE A BASE DE SILICATE DE CALCIUM DE TYPE TOBERMORITE ET SON PROCEDE DE PRODUCTION**
[72] OKADA, YUKA, JP
[72] KAMAI, KAZUKI, JP
[72] TSUMURA, YUUTA, JP
[72] KONISHI, YUKINORI, JP
[73] TOMITA PHARMACEUTICAL CO., LTD., JP
[85] 2016-09-21
[86] 2015-03-26 (PCT/JP2015/059382)
[87] (WO2015/151997)
[30] JP (2014-070672) 2014-03-29

[11] **2,944,017**
[13] C
[51] **Int.Cl. A61K 31/55 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **TREATMENT OF RETT SYNDROME**
[54] **TRAITEMENT DU SYNDROME DE RETT**
[72] DAVIS, BONNIE M., US
[72] BERGER-SWEENEY, JOANNE, US
[73] EMICIPI LLC, US
[85] 2016-09-26
[86] 2015-03-24 (PCT/US2015/022210)
[87] (WO2015/148480)
[30] US (61/969,908) 2014-03-25

[11] **2,944,372**
[13] C
[51] **Int.Cl. H01M 8/02 (2016.01) C08L 73/00 (2006.01) C08L 79/06 (2006.01) H01B 1/06 (2006.01) H01M 4/86 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **POLYMER ELECTROLYTE COMPOSITION, POLYMER ELECTROLYTE MEMBRANE USING SAME, CATALYST COATED MEMBRANE, MEMBRANE ELECTRODE ASSEMBLY AND POLYMER ELECTROLYTE FUEL CELL**
[54] **COMPOSITION D'ELECTROLYTE POLYMERE, MEMBRANE ELECTROLYTIQUE POLYMERE L'UTILISANT, MEMBRANE ELECTROLYTIQUE REVETUE D'UNE COUCHE DE CATALYSEUR, ENSEMBLE MEMBRANE-ELECTRODES ET PILE A COMBUSTIBLE A ELECTROLYTE POLYMERE SOLIDE**
[72] KUNITA, TOMOYUKI, JP
[72] IZUHARA, DAISUKE, JP
[72] UMEDA, HIROAKI, JP
[73] TORAY INDUSTRIES, INC., JP
[85] 2016-09-28
[86] 2015-03-27 (PCT/JP2015/059661)
[87] (WO2015/152058)
[30] JP (2014-071762) 2014-03-31
[30] JP (2014-071765) 2014-03-31

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[11] **2,944,835**
[13] C
[51] **Int.Cl. F01D 11/00 (2006.01) F01D 17/16 (2006.01) F02C 7/28 (2006.01) F01D 9/04 (2006.01)**
[25] FR
[54] **TURBINE ENGINE COMPRESSOR WITH VARIABLE-PITCH BLADES**
[54] **COMPRESSEUR DE TURBOMACHINE A AUBES A CALAGE VARIABLE**
[72] IMBOURG, FREDERIC, FR
[72] NECTOUTE, PHILIPPE, FR
[72] HERRAN, MATHIEU, FR
[73] SAFRAN HELICOPTER ENGINES, FR
[85] 2016-10-04
[86] 2015-04-01 (PCT/FR2015/050848)
[87] (WO2015/155442)
[30] FR (1453128) 2014-04-08

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[11] **2,944,964**
[13] C
[51] **Int.Cl. B29C 70/72 (2006.01) B29C 65/00 (2006.01) F16B 5/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR FORMING FIBER REINFORCED COMPOSITE STRUCTURES**
[54] **APPAREIL ET PROCEDE DE FORMATION DE STRUCTURES COMPOSITES RENFORCEES DE FIBRES**
[72] WILSON, ROBERT SAMUEL, GB
[72] WALSH, ORAN, GB
[73] SHORT BROTHERS PLC, IE
[85] 2016-10-05
[86] 2015-04-14 (PCT/GB2015/051125)
[87] (WO2015/159062)
[30] US (61/962,312) 2014-04-14

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[11] **2,945,003**
[13] C
[51] **Int.Cl. A61M 37/00 (2006.01)**
[25] EN
[54] **RECEPTACLE PORTION OF TRANSDERMAL DRUG DELIVERY APPARATUS AND METHODS**
[54] **PARTIE CONTENANT D'APPAREIL D'ADMINISTRATION TRANSDERMIQUE DE MEDICAMENTS ET PROCEDES ASSOCIES**
[72] BAKER, ANDREW T., US
[72] GADSBY, ELIZABETH DEIBLER, US
[72] ROSS, RUSSELL F., US
[72] HAGAN, LUKE, US
[73] SORRENTO THERAPEUTICS, INC., US
[85] 2016-10-05
[86] 2015-04-29 (PCT/US2015/028158)
[87] (WO2015/168215)
[30] US (61/996,158) 2014-04-30

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[11] **2,945,246**
[13] C
[51] **Int.Cl. B29C 33/06 (2006.01)**
[25] FR
[54] **DEVICE FOR HEATING A MOLD**
[54] **DISPOSITIF POUR LE CHAUFFAGE D'UN MOULE**
[72] FEIGENBLUM, JOSE, FR
[72] FRITSCH, JULIEN, FR
[73] ROCTOOL, FR
[85] 2016-10-07
[86] 2015-04-13 (PCT/EP2015/057993)
[87] (WO2015/155369)
[30] FR (1453285) 2014-04-11

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[11] **2,945,741**
[13] C
[51] **Int.Cl. A61K 47/32 (2006.01) A61K 9/06 (2006.01) A61K 31/352 (2006.01) A61K 31/661 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **ANIONIC DRUG-CONTAINING MEDICAL DEVICE**
[54] **DISPOSITIF MEDICAL COMPRENANT UN MEDICAMENT ANIONIQUE**
[72] OBATA, HARUKA, JP
[72] SHOJI, KIYOSHI, JP
[72] YAMAZAKI, YOSHIKO, JP
[72] MATSUNAGA, TORU, JP
[72] SATO, TAKAO, JP
[72] ASAYAMA, WAKIKO, JP
[72] YASUEDA, SHINICHI, JP
[73] SEED CO., LTD., JP
[73] SENJU PHARMACEUTICAL CO., LTD., JP
[85] 2016-10-13
[86] 2015-04-16 (PCT/JP2015/061670)
[87] (WO2015/159942)
[30] JP (2014-085664) 2014-04-17

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[11] **2,945,830**
[13] C
[51] **Int.Cl. A61F 2/28 (2006.01)**
[25] EN
[54] **AN OSSEOINTEGRABLE DEVICE**
[54] **DISPOSITIF OSSEO-INTEGRABLE**
[72] AL MUDERIS, MUNJED, AU
[73] OSSEOINTEGRATION HOLDINGS PTY LTD, AU
[85] 2016-10-14
[86] 2015-04-16 (PCT/AU2015/000234)
[87] (WO2015/157809)
[30] AU (2014901404) 2014-04-16
[30] AU (2014901958) 2014-05-23
[30] AU (2014902373) 2014-06-20

[11] **2,946,137**
[13] C
[51] **Int.Cl. G01S 7/52 (2006.01) A61B 8/00 (2006.01) B06B 1/02 (2006.01) G01S 15/89 (2006.01) G10K 11/34 (2006.01)**
[25] EN
[54] **ULTRASONIC IMAGING COMPRESSION METHODS AND APPARATUS**
[54] **PROCEDES ET DISPOSITIF DE COMPRESSION POUR IMAGERIE ULTRASONORE**
[72] ROTHBERG, JONATHAN M., US
[72] RALSTON, TYLER S., US
[72] SANCHEZ, NEVADA J., US
[72] CASPER, ANDREW J., US
[73] BUTTERFLY NETWORK, INC., US
[85] 2016-10-17
[86] 2015-04-17 (PCT/US2015/026315)
[87] (WO2015/161164)
[30] US (61/981,491) 2014-04-18

[11] **2,946,253**
[13] C
[51] **Int.Cl. A61K 31/4178 (2006.01) A61K 31/422 (2006.01) A61P 9/00 (2006.01) A61P 9/06 (2006.01)**
[25] EN
[54] **METHODS OF ADMINISTERING DANTROLENE FOR THE ACUTE TREATMENT OF CARDIAC ARRHYTHMIAS**
[54] **METHODES D'ADMINISTRATION DE DANTROLENE DANS LE TRAITEMENT D'URGENCE DES ARYTHMIES CARDIAQUES**
[72] NANTHAKUMAR, KUMARASWAMY, CA
[73] UNIVERSITY HEALTH NETWORK, CA
[85] 2016-10-18
[86] 2014-05-05 (PCT/IB2014/001748)
[87] (WO2014/191837)
[30] US (61/820,134) 2013-05-06

[11] **2,947,066**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/02 (2006.01)**
[25] EN
[54] **METHOD OF MAKING A PROSTHETIC VALVE AND VALVE OBTAINED THEREWITH**
[54] **PROCEDE DE FABRICATION D'UNE VALVE PROTHETIQUE ET VALVE OBTENUE PAR CELUI-CI**
[72] GRUNDEMAN, PAUL FREDERIK, NL
[72] KLUIN, JOLANDA, NL
[72] BOON-CEELEN, KARLIEN, NL
[72] KONIG, THOMAS, NL
[73] DSM IP ASSETS B.V., NL
[85] 2016-10-26
[86] 2015-05-06 (PCT/EP2015/059984)
[87] (WO2015/169868)
[30] EP (14167271.7) 2014-05-06
[30] EP (14167270.9) 2014-05-06
[30] EP (14167269.1) 2014-05-06
[30] EP (14167272.5) 2014-05-06

[11] **2,947,848**
[13] C
[51] **Int.Cl. B01D 71/60 (2006.01)**
[25] EN
[54] **POLYANILINE-BASED CHLORINE RESISTANT HYDROPHILIC FILTRATION MEMBRANES**
[54] **MEMBRANES DE FILTRATION HYDROPHILES RESISTANT AU CHLORE A BASE DE POLYANILINE**
[72] HOEK, ERIC M. V., US
[72] KANER, RICHARD B., US
[72] HUANG, XINWEI, US
[72] MCVERRY, BRIAN T., US
[72] MAHENDRA, SHAILY, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2016-11-02
[86] 2015-04-07 (PCT/US2015/024635)
[87] (WO2015/157227)
[30] US (61/976,688) 2014-04-08

[11] **2,948,143**
[13] C
[51] **Int.Cl. C22C 38/24 (2006.01) C22C 38/36 (2006.01)**
[25] EN
[54] **COLD WORK TOOL STEEL**
[54] **ACIER A OUTILS ECROUI A FROID**
[72] DAMM, PETTER, SE
[72] HILLSKOG, THOMAS, SE
[72] BENGTSSON, KJELL, SE
[72] ENGSTROM SVENSSON, ANNIKA, SE
[72] EJNERMARK, SEBASTIAN, SE
[72] EKMAN, LARS, SE
[72] BERGQVIST, VICTORIA, SE
[73] UDDEHOLMS AB, SE
[85] 2016-11-04
[86] 2015-06-26 (PCT/SE2015/050751)
[87] (WO2016/010469)
[30] EP (14177221.0) 2014-07-16

[11] **2,948,379**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **REPLACEMENT MITRAL VALVE WITH ANNULAR FLAP**
[54] **VALVULE MITRALE DE REMPLACEMENT AYANT UN RABAT ANNULAIRE**
[72] RATZ, J. BRENT, US
[72] PESCE, LUCA, US
[72] RABITO, GLEN, US
[72] NGUYEN, CHRISTINE THANH, US
[73] EDWARDS LIFESCIENCES CARDIAQ LLC, US
[85] 2016-11-07
[86] 2015-05-19 (PCT/US2015/031612)
[87] (WO2015/179423)
[30] US (62/000,309) 2014-05-19

[11] **2,949,590**
[13] C
[51] **Int.Cl. E21D 21/00 (2006.01)**
[25] EN
[54] **FRICTION BOLT**
[54] **BOULON FROTTANT**
[72] RATAJ, MIECZYSLAW, AU
[72] CZEKAJ, JUSTYNA, AU
[72] DARLINGTON, BRADLEY, AU
[73] SANDVIK INTELLECTUAL PROPERTY AB, SE
[85] 2016-11-18
[86] 2015-06-08 (PCT/EP2015/062702)
[87] (WO2015/189146)
[30] AU (2014902255) 2014-06-13

[11] **2,949,598**
[13] C
[51] **Int.Cl. C07D 417/14 (2006.01) A61K 31/501 (2006.01) A61K 31/53 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **1,3,4-THIADIAZOLE COMPOUNDS AND THEIR USE IN TREATING CANCER**
[54] **COMPOSES DE 1,3,4-THIADIAZOLE ET LEUR UTILISATION DANS LE TRAITEMENT DU CANCER**
[72] FINLAY, MAURICE RAYMOND VERSCHOYLE, GB
[72] EKWURU, CHUKUEMEKA TENNYSON, GB
[72] CHARLES, MARK DAVID, GB
[72] RAUBO, PIOTR ANTONI, GB
[72] WINTER, JONATHAN JAMES GORDON, GB
[72] NISSINK, JOHANNES WILHELMUS MARIA, NL
[73] ASTRAZENECA AB, SE
[73] CANCER RESEARCH TECHNOLOGY LIMITED, GB
[85] 2016-11-18
[86] 2015-05-27 (PCT/GB2015/051537)
[87] (WO2015/181539)
[30] GB (1409624.2) 2014-05-30

[11] **2,949,774**
[13] C
[51] **Int.Cl. B66C 1/10 (2006.01) B65G 1/04 (2006.01) B65G 47/90 (2006.01)**
[25] EN
[54] **CONTAINER RAISING/LOWERING CONVEYANCE APPARATUS**
[54] **APPAREIL DE TRANSPORT AVEC ELEVATION/ABAISSEMENT DE CONTENEUR**
[72] KYOTANI, HISASHI, JP
[72] OGAWA, KAZUKI, JP
[73] DAIFUKU CO., LTD., JP
[85] 2016-11-21
[86] 2015-06-04 (PCT/JP2015/066195)
[87] (WO2015/190395)
[30] JP (2014-122245) 2014-06-13

[11] **2,949,945**
[13] C
[51] **Int.Cl. B01J 37/20 (2006.01) B01J 31/28 (2006.01)**
[25] EN
[54] **HYDROCARBON PRODUCTS**
[54] **PRODUITS HYDROCARBURES**
[72] LITZ, KYLE E., US
[72] RANKIN, JONATHAN P., US
[73] AUTERRA, INC., US
[73] CENOVUS ENERGY INC., CA
[85] 2016-11-22
[86] 2015-05-19 (PCT/US2015/031461)
[87] (WO2015/179330)
[30] US (14/286,342) 2014-05-23

[11] **2,950,345**
[13] C
[51] **Int.Cl. E21B 43/26 (2006.01) E21B 43/247 (2006.01) E21B 44/00 (2006.01)**
[25] EN
[54] **METHOD FOR IMPROVED DESIGN OF HYDRAULIC FRACTURE HEIGHT IN A SUBTERRANEAN LAMINATED ROCK FORMATION**
[54] **PROCEDE POUR CONCEPTION AMELIOREE DE HAUTEUR DE FRACTURE HYDRAULIQUE DANS UNE FORMATION DE ROCHE STRATIFIEE SOUTERRAINE**
[72] CHUPRAKOV, DIMITRY, US
[72] PRIOUL, ROMAIN CHARLES ANDRE, US
[72] WENG, XIAOWEI, US
[73] SCHLUMBERGER CANADA LIMITED, CA
[85] 2016-11-24
[86] 2015-06-05 (PCT/US2015/034510)
[87] (WO2015/188115)
[30] US (62/008,082) 2014-06-05

[11] **2,950,501**
[13] C
[51] **Int.Cl. A23L 29/20 (2016.01) A23L 29/30 (2016.01) A23L 33/00 (2016.01) A23L 33/21 (2016.01) A61K 47/36 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **NUTRITIONAL PRODUCTS TO PROMOTE SAFE SWALLOWING FOR INDIVIDUALS WITH DYSPHAGIA**
[54] **PRODUITS NUTRITIONNELS FAVORISANT UNE DEGLUTITION SURE POUR DES INDIVIDUS ATTEINTS DE DYSPHAGIE**
[72] POPA NITA, SIMINA FLORENTINA, CH
[72] ENGMANN, JAN, CH
[72] BURBIDGE, ADAM, CH
[72] RAMAIOLI, MARCO, CH
[73] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2016-11-28
[86] 2015-07-20 (PCT/EP2015/066558)
[87] (WO2016/012403)
[30] US (62/026,958) 2014-07-21
[30] EP (14177895.1) 2014-07-21

[11] **2,951,137**
[13] C
[51] **Int.Cl. F01C 11/00 (2006.01) F01C 1/46 (2006.01) F02B 53/00 (2006.01) F02G 3/00 (2006.01)**
[25] EN
[54] **ROTARY MOTOR**
[54] **MOTEUR ROTATIF**
[72] MONSEN, STEIN KYRRE, NO
[72] MICHELSEN, ERIK, NO
[73] MONMIC ENGINES AB, SE
[85] 2016-12-02
[86] 2015-06-04 (PCT/NO2015/050101)
[87] (WO2015/187036)
[30] NO (20140700) 2014-06-04

[11] **2,951,968**
[13] C
[51] **Int.Cl. F41G 7/26 (2006.01)**
[25] FR
[54] **SYSTEM FOR GUIDING MISSILES FOR VEHICLES AND MOVING TARGETS**
[54] **SYSTEME DE GUIDAGE DE MISSILES POUR VEHICULES ET CIBLES MOBILES**
[72] RONDEUX, CHRISTIAN, BE
[72] BALTHASART, PIERRE, BE
[73] CMI DEFENCE S.A., BE
[85] 2016-12-12
[86] 2015-05-13 (PCT/EP2015/060711)
[87] (WO2015/189003)
[30] BE (BE2014/0450) 2014-06-13

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[11] **2,952,126**
[13] C
[51] **Int.Cl. A47K 3/40 (2006.01) B21D 53/00 (2006.01) E03C 1/22 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A DRAINAGE BASE TRAY FOR A SHOWER, AND SHOWER DRAINAGE BASE TRAY RESULTING THEREFROM**
[54] **METHODE DE FABRICATION D'UN PLATEAU DE BASE DE DRAIN DE DOUCHE ET PLATEAU DE BASE DE DRAIN DE DOUCHE PRODUIT SELON LADITE METHODE**
[72] ROY, DOMINIQUE, CA
[73] 9208-7170 QUEBEC INC., CA
[86] (2952126)
[87] (2952126)
[22] 2016-12-15
[30] CA (2,929,761) 2016-05-10

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[11] **2,952,475**
[13] C
[51] **Int.Cl. A61K 38/22 (2006.01) A61P 9/00 (2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **VIP FRAGMENT FOR THE TREATMENT OF MYOCARDIAL FIBROSIS**
[54] **FRAGMENT DE PEPTIDE INTESTINAL VASOACTIF POUR LE TRAITEMENT DE LA FIBROSE MYOCARDIQUE**
[72] DUGGAN, KAREN ANNETTE, AU
[73] VECTUS BIOSYSTEMS LIMITED, AU
[86] (2952475)
[87] (2952475)
[22] 2006-12-08
[62] 2,632,581
[30] AU (2005906947) 2005-12-09

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[11] **2,952,569**
[13] C
[51] **Int.Cl. G06Q 50/02 (2012.01) G06F 16/00 (2019.01)**
[25] EN
[54] **PROVIDING INDUSTRY ACCESS TO PROPRIETARY FISHERIES DEPENDENT DATA WHILE PRESERVING CONFIDENTIALITY RIGHTS AND USING SAME TO PROVIDE VERIFICATION OF SUPPLY CHAIN DATA**
[54] **DONNER A L'INDUSTRIE ACCES AUX DONNEES DEPENDANTES DES PECHES DE PROPRIETAIRES TOUT EN PRESERVANT LES DROITS DE CONFIDENTIALITE ET EN LESUTILISANT AFIN DE VERIFIER DES DONNEES DE CHAINE D'APPROVISIONNEMENT**
[72] SOBOIL, MARK, NZ
[72] CARROLL, MICHAEL, US
[73] LEGIT FISH COMPANY, US
[85] 2016-12-15
[86] 2014-06-16 (PCT/US2014/042532)
[87] (WO2015/195077)

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[11] **2,952,601**
[13] C
[51] **Int.Cl. F16M 11/18 (2006.01) F16M 11/12 (2006.01) F16M 11/20 (2006.01)**
[25] EN
[54] **COMPENSATED MOTION BASE**
[54] **BASE A MOUVEMENT COMPENSE**
[72] JENNINGS, CLIFFORD ALLEN, US
[73] OCEANEERING INTERNATIONAL, INC., US
[85] 2016-12-15
[86] 2015-06-10 (PCT/US2015/035088)
[87] (WO2015/191700)
[30] US (62/008,123) 2014-06-10

---

[11] **2,952,712**
[13] C
[51] **Int.Cl. A43B 7/08 (2022.01) A43B 7/12 (2006.01) A43B 23/02 (2006.01) A43B 23/07 (2006.01)**
[25] EN
[54] **VENTILATED SHOE**
[54] **CHAUSSURE AEREE**
[72] POLEGATO MORETTI, MARIO, IT
[72] POLONI, LIVIO, IT
[73] GEOX S.P.A., IT
[85] 2016-12-16
[86] 2015-06-17 (PCT/EP2015/063623)
[87] (WO2015/193385)
[30] IT (PD2014A000148) 2014-06-17

---

[11] **2,952,716**
[13] C
[51] **Int.Cl. B29C 45/17 (2006.01) B29C 45/76 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING AN INJECTION-MOULDING MACHINE**
[54] **PROCEDE POUR FAIRE FONCTIONNER UNE MACHINE DE MOULAGE PAR INJECTION**
[72] SCHMIDHEINY, ERIC, CH
[72] HAUSAMMANN, MANUEL, CH
[73] NETSTAL MASCHINEN AG, CH
[85] 2016-12-16
[86] 2015-06-19 (PCT/EP2015/063792)
[87] (WO2015/197480)
[30] DE (10 2014 108 730.5) 2014-06-23

[11] **2,953,444**
[13] C
[51] **Int.Cl. B65D 1/02 (2006.01)**
[25] EN
[54] **PLASTIC CONTAINER WITH THREADED NECK FINISH**
[54] **RECIPIENT EN PLASTIQUE DOTE D'UNE FINITION DE COL FILETE**
[72] KRAFT, PHILL, US
[72] DAUZVARDIS, MATT, US
[73] PLASTIPAK PACKAGING, INC., US
[85] 2016-12-21
[86] 2015-06-26 (PCT/US2015/037912)
[87] (WO2015/200765)
[30] US (62/017,658) 2014-06-26

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[11] **2,953,654**
[13] C
[51] **Int.Cl. H05F 7/00 (2006.01)**
[25] EN
[54] **ENERGY COLLECTION**
[54] **COLLECTE D'ENERGIE**
[72] MCCOWEN, CLINT, US
[73] ION POWER GROUP LLC, US
[85] 2016-12-23
[86] 2014-05-22 (PCT/US2014/039131)
[87] (WO2014/209522)
[30] US (13/929,414) 2013-06-27

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[11] **2,954,015**
[13] C
[51] **Int.Cl. A61M 3/02 (2006.01)**
[25] EN
[54] **TRANS ANAL IRRIGATION PLATFORM WITH BED MODULE**
[54] **PLATEFORME D'IRRIGATION TRANSANALE AYANT UN MODULE DE LIT**
[72] FOLEY, ADAM J., IE
[72] COLLUM, STEPHEN, IE
[72] GAMBLIN, DENISE, GB
[72] ARNOLD, WILLIAM K., US
[72] SETH, RUCHI, US
[72] HENRY, JEROME A., IE
[72] CULLUM, MALFORD E., US
[72] CISKO, GEORGE J., US
[73] HOLLISTER INCORPORATED, US
[85] 2016-12-29
[86] 2015-07-07 (PCT/US2015/039416)
[87] (WO2016/007536)
[30] US (62/022,051) 2014-07-08
[30] US (62/022,075) 2014-07-08
[30] US (PCT/US2014/053573) 2014-08-29

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[11] **2,954,433**
[13] C
[51] **Int.Cl. A61F 13/00 (2006.01)**
[25] EN
[54] **WOUND DRESSING**
[54] **PANSEMENT DE PLAIE**
[72] HARTWELL, EDWARD YERBURY, GB
[73] SMITH & NEPHEW PLC, GB
[86] (2954433)
[87] (2954433)
[22] 2008-11-20
[62] 2,705,898
[30] GB (0722820.8) 2007-11-21
[30] GB (0817020.1) 2008-09-17

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[11] **2,954,470**
[13] C
[51] **Int.Cl. G01N 21/85 (2006.01) B07C 5/342 (2006.01) G01N 15/14 (2006.01) G01N 33/02 (2006.01) G01N 21/84 (2006.01)**
[25] FR
[54] **UNIT FOR ANALYZING PARTIALLY OPAQUE GRAINS**
[54] **UNITE D'ANALYSE DE GRAINS NON COMPLETEMENT OPAQUES**
[72] PARADIS, FRANCOIS, FR
[73] OPTOMACHINES, FR
[85] 2017-01-06
[86] 2015-07-08 (PCT/EP2015/065644)
[87] (WO2016/005475)
[30] FR (FR1456609) 2014-07-09

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[11] **2,954,853**
[13] C
[51] **Int.Cl. A61L 9/02 (2006.01) A01M 1/20 (2006.01) A61L 9/03 (2006.01)**
[25] EN
[54] **DEVICE FOR EVAPORATING VOLATILE SUBSTANCES**
[54] **DISPOSITIF D'EVAPORATION DE SUBSTANCES VOLATILES**
[72] DOYLE, DOMINIC, ES
[72] GARCIA FABREGAS, RUBEN, ES
[72] LUQUE VERA, SERGIO, ES
[73] ZOBELE ESPANA, S.A., ES
[85] 2017-01-11
[86] 2015-07-10 (PCT/ES2015/070542)
[87] (WO2016/005647)
[30] ES (P201431047) 2014-07-11

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[11] **2,954,909**
[13] C
[51] **Int.Cl. C12Q 3/00 (2006.01) C12N 1/20 (2006.01) C12P 1/00 (2006.01) C12P 1/04 (2006.01) C12P 7/06 (2006.01) C12Q 1/00 (2006.01) C12M 1/36 (2006.01)**
[25] EN
[54] **A PROCESS FOR CONTROLLING FERMENTATION OF CO-CONTAINING SUBSTRATES**
[54] **PROCEDE DE REGULATION DE LA FERMENTATION DE SUBSTRATS CONTENANT DU CO**
[72] BELL, PETER SIMPSON, GB
[72] LIU, SONG, CN
[73] JUPENG BIO (HK) LIMITED, CN
[85] 2017-01-11
[86] 2015-07-24 (PCT/US2015/041893)
[87] (WO2016/025139)
[30] US (62/036,239) 2014-08-12
[30] US (14/806,851) 2015-07-23

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[11] **2,955,636**
[13] C
[51] **Int.Cl. B07C 5/34 (2006.01)**
[25] EN
[54] **HIGH CAPACITY SEPARATION OF COARSE ORE MINERALS FROM WASTE MINERALS**
[54] **SEPARATION A CAPACITE ELEVEE DE MINERAUX DE MINERAI GROSSIER A PARTIR DE DECHETS MINERAUX**
[72] BAMBER, ANDREW SHERLIKER, CA
[72] ESFAHANI, KAMYAR, CA
[72] TENG, KANG, CA
[72] ANDERSON, RICHARD, CA
[73] MINESENSE TECHNOLOGIES LTD., CA
[85] 2017-01-18
[86] 2015-07-21 (PCT/CA2015/050683)
[87] (WO2016/011551)
[30] US (62/027,118) 2014-07-21

[11] **2,955,643**
[13] C
[51] **Int.Cl. G06F 1/16 (2006.01)**
[25] EN
[54] **MODULAR COMPUTING DEVICE**
[54] **DISPOSITIF INFORMATIQUE MODULAIRE**
[72] KIM, YOUNG SOO, US
[72] ESCOLIN, TIMOTHY G., US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2017-01-18
[86] 2015-08-06 (PCT/US2015/043893)
[87] (WO2016/022736)
[30] US (62/034,641) 2014-08-07
[30] US (62/100,010) 2015-01-05
[30] US (14/792,992) 2015-07-07

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[11] **2,956,186**
[13] C
[51] **Int.Cl. D21J 3/00 (2006.01) D21F 1/00 (2006.01)**
[25] FR
[54] **METHOD AND MACHINE FOR MANUFACTURING AN OBJECT HAVING A FIBROUS MATRIX AND OBJECT OBTAINED**
[54] **PROCEDE ET MACHINE DE FABRICATION D'UN OBJET A MATRICE FIBREUSE ET OBJET OBTENU**
[72] BOUTANT, YANN, FR
[72] ROSSET, GAEL, FR
[73] KERQUEST, FR
[85] 2017-01-24
[86] 2015-07-24 (PCT/FR2015/052064)
[87] (WO2016/012733)
[30] FR (1457139) 2014-07-24
[30] FR (1556008) 2015-06-26

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[11] **2,956,270**
[13] C
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4545 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **SALT OF MONOCYCLIC PYRIDINE DERIVATIVE AND CRYSTAL THEREOF**
[54] **SEL DE DERIVE DE PYRIDINE MONOCYCLIQUE ET SON CRISTAL**
[72] OZAKI, SHUNSUKE, JP
[72] YOSHIDA, KENSHI, JP
[73] EISAI R&D MANAGEMENT CO., LTD., JP
[85] 2017-01-25
[86] 2015-08-17 (PCT/JP2015/073047)
[87] (WO2016/027781)
[30] JP (2014-166118) 2014-08-18

---

[11] **2,958,978**
[13] C
[51] **Int.Cl. F16G 3/08 (2006.01)**
[25] FR
[54] **JUNCTION DEVICE FOR CONVEYOR BELTS**
[54] **DISPOSITIF DE JONCTION POUR BANDES TRANSPORTEUSES**
[72] JAKOB, HORST, FR
[73] ASER, FR
[85] 2017-02-22
[86] 2015-09-03 (PCT/FR2015/052334)
[87] (WO2016/034821)
[30] FR (14/02007) 2014-09-04

---

[11] **2,959,095**
[13] C
[51] **Int.Cl. B01D 53/14 (2006.01)**
[25] EN
[54] **REMOVAL OF CARBON DIOXIDE FROM A FLUID FLOW**
[54] **EXTRACTION DU DIOXYDE DE CARBONE D'UN FLUX DE FLUIDE**
[72] INGRAM, THOMAS, DE
[72] NOTZ, RALF, DE
[72] VORBERG, GERALD, DE
[72] SIEDER, GEORG, DE
[72] LOZANO MARTINEZ, GUSTAVO ADOLFO, DE
[72] GARCIA ANDARCIA, HUGO RAFAEL, CN
[73] BASF SE, DE
[85] 2017-02-23
[86] 2015-08-20 (PCT/EP2015/069160)
[87] (WO2016/030276)
[30] EP (14182105.8) 2014-08-25

---

[11] **2,960,739**
[13] C
[51] **Int.Cl. B02C 21/02 (2006.01)**
[25] EN
[54] **MOBILE BULK MATERIAL PROCESSING MACHINE WITH DEMOUNTABLE HANGING ASSEMBLY**
[54] **MACHINE MOBILE DE TRAITEMENT DE MATERIAU EN VRAC AVEC ENSEMBLE DE SUSPENSION DEMONTABLE**
[72] MCDEVITT, TERRY, IE
[72] MAGOWAN, GARY, SE
[73] SANDVIK INTELLECTUAL PROPERTY AB, SE
[85] 2017-03-09
[86] 2014-10-03 (PCT/EP2014/071263)
[87] (WO2016/050326)

---

[11] **2,960,765**
[13] C
[51] **Int.Cl. B65G 65/40 (2006.01) B65G 53/04 (2006.01) B65G 53/34 (2006.01) B65G 53/40 (2006.01)**
[25] EN
[54] **MEANS AND A METHOD FOR FEEDING DOSES OF FLUIDISABLE MATERIALS**
[54] **MOYENS ET PROCEDE POUR DELIVRER DES DOSES DE MATERIAUX POUVANT ETRE FLUIDISES**
[72] DYROY, ARE, NO
[72] KARLSEN, MORTEN, NO
[72] LILLEBY, ANDERS, NO
[73] NORSK HYDRO ASA, NO
[85] 2017-03-09
[86] 2015-08-20 (PCT/NO2015/000020)
[87] (WO2016/039629)
[30] NO (20141107) 2014-09-12

---

[11] **2,961,577**
[13] C
[51] **Int.Cl. E21B 1/16 (2006.01) E21B 4/10 (2006.01) E21B 6/02 (2006.01)**
[25] EN
[54] **HAMMER DRILL**
[54] **MARTEAU PERFORATEUR**
[72] VON GYNZ-REKOWSKI, GUNTHER HH, US
[72] WILLIAMS, MICHAEL V., US
[72] KOENING, RUSSELL, US
[73] RIVAL DOWNHOLE TOOLS LC, US
[85] 2017-03-15
[86] 2015-10-01 (PCT/US2015/053548)
[87] (WO2016/060861)
[30] US (62/065,532) 2014-10-17
[30] US (14/864,405) 2015-09-24

[11] **2,961,681**
[13] C
[51] **Int.Cl. H04N 19/513 (2014.01)**
[25] EN
[54] **METHOD OF ADAPTIVE MOTION VETOR RESOLUTION FOR VIDEO CODING**
[54] **PROCEDE DE RESOLUTION ADAPTATIVE DE VECTEUR DE MOUVEMENT POUR CODAGE VIDEO**
[72] XU, XIAOZHONG, US
[72] ZHANG, KAI, CN
[72] LIU, SHAN, US
[72] AN, JICHENG, CN
[72] ZHANG, XIANGUO, CN
[73] HFI INNOVATION INC., TW
[85] 2017-03-17
[86] 2015-09-30 (PCT/CN2015/091275)
[87] (WO2016/050219)
[30] CN (PCT/CN2014/088017) 2014-09-30
[30] CN (PCT/CN2015/071553) 2015-01-26
[30] CN (PCT/CN2015/072175) 2015-02-03
[30] US (62/154,373) 2015-04-29
[30] US (62/182,685) 2015-06-22

---

[11] **2,962,655**
[13] C
[51] **Int.Cl. A61K 35/33 (2015.01) A61K 35/15 (2015.01) A61K 31/198 (2006.01) A61P 3/10 (2006.01) A61P 17/14 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **A COMBINATION OF KYNURENINE AND ANTIGEN PRESENTING CELLS (APC) AS THERAPEUTICS AND METHODS FOR THEIR USE IN IMMUNE MODULATION**
[54] **ASSOCIATION DE KYNURENINE ET DE CELLULES PRESENTATRICES D'ANTIGENE (CPA) EN TANT QU'AGENT THERAPEUTIQUE, ET METHODES D'UTILISATION DE CETTE DERNIERE DANS LA MODULATION IMMUNITAIRE**
[72] GHAHARY, AZIZ, CA
[72] JALILI, REZA B., CA
[72] KILANI, RUHANGIZ T., CA
[72] LI, YUNYUAN, CA
[73] THE UNIVERSITY OF BRITISH COLUMBIA, CA
[85] 2017-03-27
[86] 2015-09-25 (PCT/CA2015/000506)
[87] (WO2016/044922)
[30] US (62/055,823) 2014-09-26
[30] US (62/087,156) 2014-12-03

---

[11] **2,964,180**
[13] C
[51] **Int.Cl. A41B 11/12 (2006.01) A41B 11/00 (2006.01)**
[25] EN
[54] **A FOOTLET AS WELL AS A METHOD FOR PRODUCING SUCH A FOOTLET**
[54] **PROTEGE-BAS AINSI QUE PROCEDE DE FABRICATION D'UN TEL PROTEGE-BAS**
[72] VAN TIEL, CORNELIUS HENDRIKUS NICOLAAS, NL
[72] VAN TIEL, WILHELMUS JACOBUS CORNELIUS, NL
[73] STEPS HOLDING B.V., NL
[85] 2017-04-10
[86] 2015-10-06 (PCT/EP2015/073019)
[87] (WO2016/058864)
[30] NL (2013644) 2014-10-17

---

[11] **2,964,610**
[13] C
[51] **Int.Cl. A01B 51/00 (2006.01) A01B 51/04 (2006.01) A01B 73/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL IMPLEMENT AND RAMP ATTACHMENT SYSTEM**
[54] **MECANISME DE FIXATION DE RAMPE ET ACCESSOIRE AGRICOLE**
[72] BEAUJOT, NORBERT, CA
[73] DOT TECHNOLOGY CORP., CA
[86] (2964610)
[87] (2964610)
[22] 2017-04-13
[30] CA (2927582) 2016-04-19
[30] CA (2,955,638) 2017-01-23

---

[11] **2,965,410**
[13] C
[51] **Int.Cl. B23D 71/04 (2006.01) B23D 79/08 (2006.01) B25F 1/00 (2006.01)**
[25] EN
[54] **FLAT FILE**
[54] **LIME PLATE**
[72] MARTIN, CHRISTOPH, DE
[73] GEORG MARTIN GMBH, DE
[85] 2017-04-21
[86] 2015-10-13 (PCT/EP2015/073718)
[87] (WO2016/062588)
[30] DE (20 2014 008 439.4) 2014-10-23

---

[11] **2,967,976**
[13] C
[51] **Int.Cl. G10L 13/033 (2013.01)**
[25] EN
[54] **EMOTION TYPE CLASSIFICATION FOR INTERACTIVE DIALOG SYSTEM**
[54] **CLASSIFICATION DE TYPE D'EMOTION POUR SYSTEME DE DIALOGUE INTERACTIF**
[72] UN, EDWARD, US
[72] LEUNG, MAX, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2017-05-15
[86] 2015-12-02 (PCT/US2015/063301)
[87] (WO2016/089929)
[30] US (14/561,190) 2014-12-04

---

[11] **2,968,044**
[13] C
[51] **Int.Cl. C12P 21/02 (2006.01) C07K 14/33 (2006.01) C12N 1/20 (2006.01) C12N 9/52 (2006.01)**
[25] EN
[54] **MEDIUM COMPOSITION FOR PREPARING BOTULINUM TOXIN**
[54] **COMPOSITION DE MILIEU POUR LA PREPARATION DE TOXINE BOTULINIQUE**
[72] KIM, KYOUNG-YUN, KR
[72] SUL, HYE-YOUNG, KR
[72] MIN, KYOUNG-MIN, KR
[73] DAEWOONG CO., LTD., KR
[85] 2017-05-16
[86] 2016-04-28 (PCT/KR2016/004431)
[87] (WO2016/175566)
[30] KR (10-2015-0059655) 2015-04-28

[11] **2,968,405**
[13] C
[51] **Int.Cl. A01N 25/22 (2006.01) A01N 41/02 (2006.01) A01N 59/02 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **METHODS FOR THE DIRECT ELECTROLYTIC PRODUCTION OF STABLE, HIGH CONCENTRATION AQUEOUS HALOSULFAMATE OR HALOSULFONAMIDE SOLUTIONS**
[54] **PROCEDES PERMETTANT LA PRODUCTION ELECTROLYTIQUE DIRECTE DE SOLUTIONS D'HALOSULFAMATE OU D'HALOSULFONAMIDE AQUEUSES STABLES A CONCENTRATION ELEVEE**
[72] BOAL, ANDREW K., US
[73] DE NORA HOLDINGS US, INC, US
[85] 2017-05-18
[86] 2015-12-09 (PCT/US2015/064846)
[87] (WO2016/094591)
[30] US (62/089,770) 2014-12-09

---

[11] **2,970,627**
[13] C
[51] **Int.Cl. G01N 27/40 (2006.01) B81B 3/00 (2006.01)**
[25] EN
[54] **INTEGRATING NANOPORE SENSORS WITHIN MICROFLUIDIC CHANNEL ARRAYS USING CONTROLLED BREAKDOWN**
[54] **INTEGRATION DE CAPTEURS A NANOPORES A L'INTERIEUR DE RESEAUX DE CANAUX MICROFLUIDIQUES A L'AIDE DU CLAQUAGE CONTROLE**
[72] TABARD-COSSA, VINCENT, CA
[72] GODIN, MICHEL, CA
[72] TAHVILDARI, RADIN, CA
[72] BEAMISH, ERIC, CA
[73] THE UNIVERSITY OF OTTAWA, CA
[85] 2017-06-12
[86] 2015-12-18 (PCT/IB2015/059799)
[87] (WO2016/098080)
[30] US (62/094,669) 2014-12-19

---

[11] **2,970,741**
[13] C
[51] **Int.Cl. G06F 3/0482 (2013.01)**
[25] EN
[54] **DATA PROCESSING APPARATUS AND METHOD FOR RENDERING A TREE STRUCTURE**
[54] **APPAREIL ET PROCEDE DE TRAITEMENT DE DONNEES POUR LE RENDU D'UNE STRUCTURE D'ARBORESCENCE**
[72] BROCKE, JENS, DE
[72] GLAESER, FRANK, DE
[72] KUBSCH, STEFAN, DE
[72] LI, HUI, DE
[72] PIEPER, MICHAEL, DE
[72] WEBER, MICHAEL, DE
[73] INTERDIGITAL MADISON PATENT HOLDINGS, SAS, FR
[85] 2017-06-13
[86] 2015-11-27 (PCT/EP2015/077876)
[87] (WO2016/096368)
[30] EP (14307100.9) 2014-12-19

---

[11] **2,972,442**
[13] C
[51] **Int.Cl. H02B 1/14 (2006.01) H02B 1/044 (2006.01)**
[25] EN
[54] **ENERGIZED PARTS GUARD**
[54] **ELEMENT DE PROTECTION DE PIECES SOUS TENSION**
[72] CROWELL, DAVID V., US
[73] JONES LANG LASALLE IP, INC., US
[85] 2017-06-27
[86] 2015-12-10 (PCT/US2015/064882)
[87] (WO2016/094605)
[30] US (14/567,832) 2014-12-11

---

[11] **2,972,752**
[13] C
[51] **Int.Cl. F16L 9/22 (2006.01) F16L 9/08 (2006.01) F16L 25/00 (2006.01)**
[25] EN
[54] **PIPE JOINT, PIPE AND METHOD OF JOINING PIPE SECTIONS**
[54] **RACCORD DE TUYAU, TUYAU ET PROCEDE DE RACCORDEMENT DE SECTIONS DE TUYAU**
[72] APICELLA, FRANK, US
[72] ATTIOGBE, EMMANUEL, US
[72] GOLD, WILLIAM, US
[73] CONSTRUCTION RESEARCH & TECHNOLOGY GMBH, DE
[85] 2017-06-29
[86] 2015-01-22 (PCT/US2015/012380)
[87] (WO2016/118139)

---

[11] **2,973,295**
[13] C
[51] **Int.Cl. E21B 41/04 (2006.01) B25J 9/06 (2006.01)**
[25] EN
[54] **UNDERWATER MANIPULATOR ARM ROBOT**
[54] **ROBOT A BRAS MANIPULATEUR SOUS L'EAU**
[72] PETTERSEN, KRISTIN Y., NO
[72] LILJEBACK, PAL, NO
[72] SORENSEN, ASGEIR J., NO
[72] STAVDAHL, OYVIND, NO
[72] LUND, FREDRIK, NO
[72] TRANSETH, AKSEL A., NO
[72] GRAVDAHL, JAN TOMMY, NO
[73] EELUME AS, NO
[85] 2017-07-07
[86] 2016-01-13 (PCT/EP2016/050569)
[87] (WO2016/120071)
[30] GB (1501479.8) 2015-01-29

---

[11] **2,973,600**
[13] C
[51] **Int.Cl. G01N 27/333 (2006.01)**
[25] EN
[54] **IMPROVED MAGNESIUM ION SELECTIVE MEMBRANES**
[54] **MEMBRANES AMELIOREES SELECTIVES D'ION MAGNESIUM**
[72] BENCO, JOHN, US
[72] BERGQUIST, ROBERT, US
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2017-07-11
[86] 2016-02-01 (PCT/US2016/015929)
[87] (WO2016/126593)
[30] US (62/111,293) 2015-02-03
[30] US (62/239,492) 2015-10-09

[11] **2,976,449**
[13] C
[51] **Int.Cl. C07D 207/34 (2006.01) A61K 31/18 (2006.01) A61K 31/55 (2006.01) A61P 3/00 (2006.01) C07C 311/46 (2006.01) C07D 213/82 (2006.01) C07D 233/90 (2006.01) C07D 295/26 (2006.01)**
[25] EN
[54] **BENZENESULFONAMIDE UPREGULATORS OF NPC1 FOR NEIMANN-PICK DISEASE AND OTHER LYSOSOMAL STORAGE DISORDERS**
[54] **REGULATEURS POSITIFS AU BENZENESULFONAMIDE DE NPC1 POUR LA MALADIE DE NIEMANN-PICK ET D'AUTRES MALADIES LYSOSOMIALES**
[72] PATNAIK, SAMARJIT, US
[72] TAYLOR, MERCEDES, US
[72] CALVO, RAUL ROLANDO, US
[72] MARUGAN, JUAN JOSE, US
[72] SOUTHALL, NOEL, US
[72] ZHENG, WEI, US
[72] FERRER-ALEGRE, MARC, US
[72] DEHDASTHI, SEAMEEN, US
[72] DRANCHAK, PATRICIA, US
[72] CHEN, FANNIE, US
[72] IOANNOU, YIANNIS, US
[73] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2017-08-11
[86] 2016-02-11 (PCT/US2016/017504)
[87] (WO2016/130774)
[30] US (62/114,840) 2015-02-11

---

[11] **2,977,016**
[13] C
[51] **Int.Cl. H01M 8/0668 (2016.01) H01M 8/04007 (2016.01)**
[25] EN
[54] **POWER PRODUCING GAS SEPERATION SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE SEPARATION DE GAZ POUR LA PRODUCTION D'ENERGIE**
[72] GHEZEL-AYAGH, HOSSEIN, US
[73] FUELCELL ENERGY, INC., US
[85] 2017-08-17
[86] 2016-02-22 (PCT/IB2016/050940)
[87] (WO2016/135613)
[30] US (14/631,239) 2015-02-25

---

[11] **2,983,409**
[13] C
[51] **Int.Cl. B60S 3/06 (2006.01)**
[25] EN
[54] **A WRAPAROUND VEHICLE WASH COMPONENT**
[54] **COMPOSANT ENVELOPPANT DE LAVAGE DE VEHICULES**
[72] BELANGER, MICHAEL J., US
[72] TOGNETTI, DAVID L., US
[73] WASHME PROPERTIES, LLC, US
[85] 2017-10-19
[86] 2016-04-22 (PCT/US2016/028725)
[87] (WO2016/172397)
[30] US (62/151,256) 2015-04-22
[30] US (15/135,350) 2016-04-21

---

[11] **2,986,618**
[13] C
[51] **Int.Cl. H04L 9/08 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **METHOD FOR PROVIDING A PERSONAL IDENTIFICATION CODE OF A SECURITY MODULE**
[54] **PROCEDE DE FOURNITURE D'UN CODE D'IDENTIFICATION PERSONNEL D'UN MODULE DE SECURITE**
[72] HERGET, WERNER, DE
[72] WERNER, THOMAS, DE
[73] GIESECKE+DEVRIENT MOBILE SECURITY GMBH, DE
[85] 2017-11-21
[86] 2016-05-25 (PCT/EP2016/000873)
[87] (WO2016/188637)
[30] DE (10 2015 006 751.6) 2015-05-26

---

[11] **2,989,061**
[13] C
[51] **Int.Cl. G06F 9/455 (2018.01) A63F 13/00 (2014.01)**
[25] EN
[54] **CONTENT TESTING DURING IMAGE PRODUCTION**
[54] **TEST DE CONTENU DURANT UNE PRODUCTION D'IMAGE**
[72] POLESSKIY, ALEKSEY A., US
[72] BYSKAL, CHRISTOPHER DAVID, US
[73] AMAZON TECHNOLOGIES, INC., US
[85] 2017-12-08
[86] 2016-06-14 (PCT/US2016/037419)
[87] (WO2016/205230)
[30] US (14/743,648) 2015-06-18

---

[11] **2,989,432**
[13] C
[51] **Int.Cl. A61K 9/72 (2006.01) A61K 45/00 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **THERAPEUTIC IMMUNE MODULATION USING NOBLE GAS COMPOSITIONS**
[54] **MODULATION IMMUNITAIRE THERAPEUTIQUE A L'AIDE DE COMPOSITIONS DE GAZ NOBLE**
[72] BOGIN, VLAD, US
[72] ICHIM, THOMAS, US
[73] NOBILIS THERAPEUTICS, INC., US
[85] 2017-12-13
[86] 2016-06-23 (PCT/US2016/039038)
[87] (WO2016/210144)
[30] US (62/183,624) 2015-06-23
[30] US (62/276,753) 2016-01-08

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[11] **2,989,780**
[13] C
[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/9038 (2019.01) G06F 16/906 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DYNAMICALLY REARRANGING SEARCH RESULTS INTO HIERARCHICALLY ORGANIZED CONCEPT CLUSTERS**
[54] **PROCEDE ET SYSTEME DE REARRANGEMENT DYNAMIQUE DE RESULTATS DE RECHERCHE EN GROUPES CONCEPTUELS ORGANISES HIERARCHIQUEMENT**
[72] VENKATARAMAN, SASHIKUMAR, IN
[72] GARG, PANKAJ, IN
[72] RAJANALA, PRANAV, IN
[73] VEVEO, INC., US
[86] (2989780)
[87] (2989780)
[22] 2007-09-14
[62] 2,663,222
[30] US (60/825,616) 2006-09-14

[11] **2,990,264**
[13] C
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **IMMUNE RESPONSE INDUCER**
[54] **INDUCTEUR DE LA REPONSE IMMUNITAIRE**
[72] ISHIBASHI, MASAKI, JP
[72] OKANO, FUMIYOSHI, JP
[73] TORAY INDUSTRIES, INC., JP
[86] (2990264)
[87] (2990264)
[22] 2008-10-23
[62] 2,703,350
[30] JP (2007-277578) 2007-10-25
[30] JP (2007-277611) 2007-10-25
[30] JP (2007-277240) 2007-10-25
[30] JP (2007-279113) 2007-10-26

[11] **2,991,870**
[13] C
[51] **Int.Cl. A23L 19/12 (2016.01) A23L 19/18 (2016.01) A23B 7/02 (2006.01)**
[25] EN
[54] **METHOD FOR THE PREPARATION OF DRIED CRUNCHY POTATO BODIES AS CONSUMABLE**
[54] **PROCEDE DE PREPARATION DE CORPS DE POMME DE TERRE SECHES CROUSTILLANTS EN TANT QUE PRODUIT ALIMENTAIRE**
[72] VAN DOORN, JOHANNES ELISABERT, NL
[73] HZPC HOLLAND B.V., NL
[85] 2018-01-09
[86] 2016-07-05 (PCT/NL2016/050477)
[87] (WO2017/010869)
[30] NL (2015152) 2015-07-10
[30] NL (2015154) 2015-07-10

[11] **2,995,202**
[13] C
[51] **Int.Cl. B64C 25/10 (2006.01) B64C 25/60 (2006.01)**
[25] EN
[54] **AIRCRAFT LANDING GEAR, AIRCRAFT, AND RELATED METHODS**
[54] **TRAIN D'ATTERRISSAGE D'AERONEF, AERONEF ET METHODES ASOCIEES**
[72] MELLOR, MITCHELL LOREN RAY, US
[72] CUSWORTH, JAMES E., US
[73] THE BOEING COMPANY, US
[86] (2995202)
[87] (2995202)
[22] 2018-02-14
[30] US (15/444986) 2017-02-28

[11] **2,997,483**
[13] C
[51] **Int.Cl. B60K 28/06 (2006.01) B60R 25/102 (2013.01)**
[25] EN
[54] **NETWORKED INTOXICATION VEHICLE IMMOBILIZATION**
[54] **IMMOBILISATION D'UN VEHICULE POUR INTOXICATION OBTENUE PAR RESEAU**
[72] DEVRIES, DOUGLAS EDWARD, US
[72] MCGRATH, TIMOTHY J., US
[73] CONSUMER SAFETY TECHNOLOGY, LLC, US
[86] (2997483)
[87] (2997483)
[22] 2016-08-08
[62] 2,938,417
[30] US (15/223,921) 2016-07-29
[30] US (62/240,978) 2015-10-13
[30] US (62/266,279) 2015-12-11
[30] US (62/306,177) 2016-03-10

[11] **2,998,831**
[13] C
[51] **Int.Cl. F02D 9/02 (2006.01)**
[25] EN
[54] **CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE AND CONTROL METHOD FOR INTERNAL COMBUSTION ENGINE**
[54] **DISPOSITIF DE COMMANDE POUR MOTEUR A COMBUSTION INTERNE ET PROCEDE DE COMMANDE POUR MOTEUR A COMBUSTION INTERNE**
[72] HAMAMOTO, TAKAYUKI, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2018-03-15
[86] 2015-09-18 (PCT/JP2015/076697)
[87] (WO2017/046947)

[11] **2,998,988**
[13] C
[51] **Int.Cl. G01N 1/22 (2006.01) G01N 15/02 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR DETERMINATION OF THE FINE PARTICLE DOSE OF A POWDER INHALATION FORMULATION**
[54] **APPAREIL ET PROCEDE POUR LA DETERMINATION DE DOSE DE PARTICULE FINE D'UNE FORMULATION D'INHALATION SOUS FORME DE POUDRE**
[72] PRICE, ROBERT, GB
[72] SHUR, JAGDEEP, GB
[73] NANOPHARM LIMITED, GB
[85] 2018-03-16
[86] 2016-09-22 (PCT/GB2016/052957)
[87] (WO2017/051180)
[30] GB (1516802.4) 2015-09-22

[11] **3,002,475**
[13] C
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A61M 16/08 (2006.01) A61M 16/20 (2006.01) A62B 7/00 (2006.01)**
[25] EN
[54] **GAS DEMAND DEVICE, METHOD OF INSTALLATION, GAS DELIVERY SYSTEM, AND METHOD OF USE**
[54] **DISPOSITIF DE DEMANDE EN GAZ, PROCEDE D'INSTALLATION, SYSTEME DE DISTRIBUTION DE GAZ, ET PROCEDE D'UTILISATION**
[72] KRENTLER, STEPHEN BRUCE, US
[72] IRR, HANS, US
[72] WOOD, BARRY, GB
[72] TREVENA, PAUL N., GB
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2018-03-02
[86] 2016-09-02 (PCT/US2016/050170)
[87] (WO2017/040978)
[30] US (62/214,387) 2015-09-04

[11] **3,003,242**
[13] C
[51] **Int.Cl. A61K 38/26 (2006.01) C07K 14/605 (2006.01)**
[25] EN
[54] **GLUCAGON RECEPTOR AGONISTS**
[54] **AGONISTES DU RECEPTEUR DU GLUCAGON**
[72] COSKUN, TAMER, US
[72] ALSINA-FERNANDEZ, JORGE, US
[73] ELI LILLY AND COMPANY, US
[85] 2018-04-25
[86] 2016-10-14 (PCT/US2016/056959)
[87] (WO2017/074714)
[30] US (62/246,199) 2015-10-26

[11] **3,006,279**
[13] C
[51] **Int.Cl. G01V 1/38 (2006.01) G01V 1/00 (2006.01)**
[25] EN
[54] **CODING OF SIGNALS FOR EFFICIENT ACQUISITION**
[54] **CODAGE DE SIGNAUX POUR ACQUISITION EFFICACE**
[72] ABMA, RAYMOND LEE, US
[73] BP CORPORATION NORTH AMERICA INC., US
[85] 2018-05-24
[86] 2016-11-10 (PCT/US2016/061389)
[87] (WO2017/105688)
[30] US (62/268,318) 2015-12-16

[11] **3,009,010**
[13] C
[51] **Int.Cl. B64D 27/24 (2006.01) B64D 31/00 (2006.01) B64D 35/02 (2006.01)**
[25] EN
[54] **PROPULSION SYSTEM FOR AN AIRCRAFT**
[54] **SYSTEME DE PROPULSION DESTINE A UN AERONEF**
[72] GANSLER, MICHAEL THOMAS, US
[72] HON, ROBERT CHARLES, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3009010)
[87] (3009010)
[22] 2018-06-21
[30] US (15/638,979) 2017-06-30

[11] **3,009,319**
[13] C
[51] **Int.Cl. C08K 3/34 (2006.01) B32B 27/20 (2006.01) B32B 27/30 (2006.01) C08J 9/00 (2006.01) C08K 3/26 (2006.01) E04B 9/00 (2006.01) E04B 9/04 (2006.01) E04F 13/18 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **COVERING PANEL AND PROCESS OF PRODUCING COVERING PANELS**
[54] **PANNEAU DE COUVERTURE ET PROCEDE DE PRODUCTION DE PANNEAUX DE COUVERTURE**
[72] VAN GIEL, FRANS, BE
[72] LOMBAERT, POL, BE
[72] WYSEUR, MATTHIAS, BE
[72] BEVERNAGE, LEO MARIE RICHARD, BE
[73] BEAULIEU INTERNATIONAL GROUP NV, BE
[85] 2018-06-20
[86] 2016-07-15 (PCT/EP2016/066925)
[87] (WO2017/121499)
[30] EP (PCT/EP2016/050733) 2016-01-15

[11] **3,010,220**
[13] C
[51] **Int.Cl. B65D 77/04 (2006.01)**
[25] EN
[54] **PALLET CONTAINER**
[54] **CONTENEUR SUR PALETTE**
[72] WEYRAUCH, DETLEV, DE
[72] WAHMES, LUKAS, DE
[73] MAUSER-WERKE GMBH, DE
[85] 2018-06-29
[86] 2017-01-03 (PCT/EP2017/000002)
[87] (WO2017/118599)
[30] DE (20 2016 000 053.6) 2016-01-07

[11] **3,010,732**
[13] C
[51] **Int.Cl. F04B 1/146 (2020.01) F04B 9/02 (2006.01) F04B 11/00 (2006.01) F04B 15/02 (2006.01) F04B 23/06 (2006.01) F16H 23/08 (2006.01)**
[25] EN
[54] **DIRECT DRIVE PUMP ASSEMBLIES**
[54] **ENSEMBLES FORMANT POMPES A ENTRAINEMENT DIRECT**
[72] MARICA, ADRIAN, US
[73] NATIONAL OILWELL VARCO, L.P., US
[85] 2018-07-05
[86] 2017-01-11 (PCT/US2017/013048)
[87] (WO2017/123656)
[30] US (62/277,363) 2016-01-11
[30] US (62/423,008) 2016-11-16
[30] US (62/429,446) 2016-12-02

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[11] **3,011,027**
[13] C
[51] **Int.Cl. C10G 49/20 (2006.01)**
[25] EN
[54] **AN INTEGRATED THERMAL SYSTEM AND PROCESS FOR HEAVY OIL AND GAS TO LIQUIDS CONVERSION**
[54] **SYSTEME ET TRAITEMENT THERMIQUES INTEGRES POUR LA CONVERSION DU PETROLE ET DU GAZ LOURD EN LIQUIDES**
[72] BENHAM, KELLY, CA
[72] ARCHER, BERNARD MARK, CA
[72] BENHAM, NICHOLAS DANIEL, CA
[73] SUNCOR ENERGY INC., CA
[86] (3011027)
[87] (3011027)
[22] 2018-07-11

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[11] **3,013,260**
[13] C
[51] **Int.Cl. A21C 11/10 (2006.01) A21C 9/06 (2006.01)**
[25] EN
[54] **CRIMPER ROLLER**
[54] **ROULEAU DE SERTISSAGE**
[72] ESTEVE, EMILIEN, CH
[72] MARCHIONINI, YVES, CH
[72] VIGIER, PIERRE, CH
[73] GENERAL MILLS, INC., US
[85] 2018-07-31
[86] 2017-03-01 (PCT/EP2017/054769)
[87] (WO2017/153222)
[30] EP (16159180.5) 2016-03-08

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[11] **3,013,711**
[13] C
[51] **Int.Cl. H04H 60/29 (2009.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND ARTICLES OF MANUFACTURE TO MEASURE ONLINE AUDIENCES**
[54] **SYSTEMES, PROCEDES ET PRODUITS MANUFACTURES PERMETTANT DE MESURER DES AUDIENCES EN LIGNE**
[72] OLIVER, JAMES R., US
[72] STACKHOUSE, HERBERT F., US
[72] DOE, PETER C., US
[72] TANG, CANDY, US
[72] HA, MICHELLE, US
[73] THE NIELSEN COMPANY (US), LLC, US
[86] (3013711)
[87] (3013711)
[22] 2013-01-25
[62] 2,862,549
[30] US (61/591,263) 2012-01-26

---

[11] **3,018,576**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01) A61B 5/389 (2021.01) A61N 1/05 (2006.01)**
[25] EN
[54] **SYSTEM TO ESTIMATE THE LOCATION OF A SPINAL CORD PHYSIOLOGICAL MIDLINE**
[54] **SYSTEME POUR ESTIMER L'EMPLACEMENT DE LA LIGNE MEDIANE PHYSIOLOGIQUE DE LA MOELLE EPINIERE**
[72] SERRANO CARMONA, RAUL, US
[72] HERSHEY, BRADLEY, US
[73] BOSTON SCIENTIFIC NEUROMODULATION CORPORATION, US
[85] 2018-09-20
[86] 2017-03-24 (PCT/US2017/024075)
[87] (WO2017/176474)
[30] US (62/317,877) 2016-04-04
[30] US (15/467,390) 2017-03-23

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[11] **3,020,099**
[13] C
[51] **Int.Cl. A24F 40/40 (2020.01)**
[25] EN
[54] **ELECTRONIC CIGARETTE**
[54] **CIGARETTE ELECTRONIQUE**
[72] CHEN, WEN, CN
[73] SHENZHEN IVPS TECHNOLOGY CO., LTD., CN
[86] (3020099)
[87] (3020099)
[22] 2018-10-09
[30] CN (201721489584.9) 2017-11-07

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[11] **3,020,650**
[13] C
[51] **Int.Cl. A61K 31/675 (2006.01) A61K 31/4545 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C12N 9/12 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **ROS KINASE IN LUNG CANCER**
[54] **KINASE ROS DANS LE CANCER DU POUMON**
[72] RIMKUNAS, VICTORIA MCGUINNESS, US
[72] HAACK, HERBERT, US
[72] GU, TING-LEI, US
[72] GUO, AILAN, US
[72] POSSEMATO, ANTHONY PAUL, US
[72] CROSBY, KATHERINE ELEANOR, US
[72] TUCKER, MEGHAN ANN, US
[72] REEVES, CYNTHIA, US
[73] CELL SIGNALING TECHNOLOGY, INC., US
[86] (3020650)
[87] (3020650)
[22] 2012-05-23
[62] 2,841,900
[30] US (13/113,676) 2011-05-23

[11] **3,021,229**
[13] C
[51] **Int.Cl. C10G 49/22 (2006.01)**
[25] EN
[54] **PROCESS FOR PARTIAL UPGRADING OF HEAVY OIL**
[54] **PROCEDE DE VALORISATION PARTIELLE D'HUILE LOURDE**
[72] MALEK ABBASLOU, MOHAMMAD REZA, CA
[72] ABBASPOUR GHARAMALEK, ALI, CA
[72] HUQ, IFTIKHAR, CA
[72] MARSH, JOHN HENRY, CA
[73] SHERRITT INTERNATIONAL CORPORATION, CA
[85] 2018-10-17
[86] 2017-04-25 (PCT/CA2017/000098)
[87] (WO2017/185166)
[30] US (62/327,187) 2016-04-25

[11] **3,023,945**
[13] C
[51] **Int.Cl. H01S 5/024 (2006.01) G01J 3/42 (2006.01) G01N 21/39 (2006.01)**
[25] EN
[54] **PACKAGED LASER THERMAL CONTROL SYSTEM**
[54] **MECANISME DE CONTROLE THERMIQUE DE LASER CONDITIONNE**
[72] TULIP, JOHN, CA
[73] BOREAL LASER INC., CA
[86] (3023945)
[87] (3023945)
[22] 2015-05-05
[62] 2,889,953

[11] **3,026,029**
[13] C
[51] **Int.Cl. A23L 31/15 (2016.01) A23K 10/16 (2016.01) A23L 33/16 (2016.01) A23L 33/165 (2016.01) C12N 1/14 (2006.01) C12P 1/02 (2006.01)**
[25] EN
[54] **PROCESS FOR FORMING IRON ENRICHED NUTRITIONAL PRODUCTS**
[54] **PROCEDE DE FORMATION DE PRODUITS NUTRITIONNELS ENRICHIS EN FER**
[72] WICKING, J. BRUCE, US
[72] BIAN, YILIN, US
[73] CURA GLOBAL HEALTH (BVI) LIMITED, VG
[85] 2018-11-29
[86] 2016-06-01 (PCT/AU2016/000188)
[87] (WO2017/205890)

[11] **3,026,373**
[13] C
[51] **Int.Cl. F16B 19/06 (2006.01) B25B 13/46 (2006.01) B25B 27/02 (2006.01) B25B 31/00 (2006.01) F16B 39/02 (2006.01)**
[25] EN
[54] **COMBINED SCREW AND RIVET**
[54] **RIVET ET VIS COMBINES**
[72] BURR, COLTEN W., US
[72] GORDON, MARK T., US
[72] ROSS, DAVID T., US
[73] SNAP-ON INCORPORATED, US
[86] (3026373)
[87] (3026373)
[22] 2018-12-04
[30] US (15/978,419) 2018-05-14

[11] **3,026,755**
[13] C
[51] **Int.Cl. A01N 25/02 (2006.01) A01N 25/30 (2006.01) A01N 37/40 (2006.01) A01N 57/20 (2006.01)**
[25] EN
[54] **METHODS FOR MANAGING HERBICIDE VAPORIZATION USING A WATER CONDITIONING ADJUVANT COMPRISING AN AMINE SURFACTANT AND A MINERAL ACID**
[54] **PROCEDES DE GESTION DE LA VAPORISATION D'HERBICIDES A L'AIDE D'UN ADJUVANT DE CONDITIONNEMENT D'EAU COMPRENANT UN TENSIOACTIF AMINE ET UN ACIDE MINERAL**
[72] PARRISH, SCOTT, US
[73] AGQUAM LLC, US
[85] 2018-12-06
[86] 2017-06-19 (PCT/US2017/038145)
[87] (WO2017/222992)
[30] US (62/352,213) 2016-06-20

[11] **3,027,398**
[13] C
[51] **Int.Cl. G06F 16/27 (2019.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR A DISTRIBUTED DATABASE WITHIN A NETWORK**
[54] **PROCEDES ET APPAREIL POUR UNE BASE DE DONNEES DISTRIBUEE DANS UN RESEAU**
[72] BAIRD, LEEMON C., III, US
[73] HEDERA HASHGRAPH, LLC, US
[86] (3027398)
[87] (3027398)
[22] 2016-08-26
[62] 2,996,714
[30] US (62/211,411) 2015-08-28
[30] US (14/988,873) 2016-01-06
[30] US (15/153,011) 2016-05-12
[30] US (62/344,682) 2016-06-02
[30] US (15/205,688) 2016-07-08

[11] **3,028,290**
[13] C
[51] **Int.Cl. E05F 15/40 (2015.01) E05F 15/668 (2015.01)**
[25] EN
[54] **DOOR BREAKOUT DETECTION SYSTEM AND METHOD**
[54] **SYSTEME DE DETECTION DE DEFONCEMENT DE PORTE ET METHODE**
[72] KANURI, SREE LAKSHMI, US
[73] OVERHEAD DOOR CORPORATION, US
[86] (3028290)
[87] (3028290)
[22] 2018-12-20
[30] US (15/877,518) 2018-01-23

[11] **3,029,320**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12P 19/34 (2006.01)**
[25] EN
[54] **NUCLEIC ACID SYNTHESIS AND SEQUENCING USING TETHERED NUCLEOSIDE TRIPHOSPHATES**
[54] **SYNTHESE ET SEQUENCAGE D'ACIDE NUCLEIQUE EN UTILISANT DES NUCLEOSIDES TRIPHOSPHATES FIXES**
[72] ARLOW, DANIEL, US
[72] PALLUK, SEBASTIAN, US
[73] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2018-12-24
[86] 2017-06-23 (PCT/US2017/039120)
[87] (WO2017/223517)
[30] US (62/354,635) 2016-06-24

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[11] **3,029,593**
[13] C
[51] **Int.Cl. A63B 71/06 (2006.01) A63B 21/005 (2006.01) A63B 22/00 (2006.01) A63B 22/02 (2006.01) A63B 23/04 (2006.01)**
[25] EN
[54] **MOTORIZED TREADMILL WITH MOTOR BRAKING MECHANISM AND METHODS OF OPERATING SAME**
[54] **TAPIS ROULANT MOTORISE MUNI D'UN MECANISME DE FREINAGE DU MOTEUR ET PROCEDES POUR LE FAIRE FONCTIONNER**
[72] BAYERLEIN, DOUGLAS G., US
[72] OBLAMSKI, NICHOLAS, US
[72] EMONS, VANCE E., US
[73] WOODWAY USA, INC., US
[85] 2018-12-28
[86] 2017-06-30 (PCT/US2017/040449)
[87] (WO2018/006055)
[30] US (62/357,765) 2016-07-01

---

[11] **3,029,845**
[13] C
[51] **Int.Cl. G21C 7/14 (2006.01)**
[25] EN
[54] **MOVEABLE ISOLATED ROD COUPLINGS FOR USE IN A NUCLEAR REACTOR CONTROL ROD DRIVE**
[54] **RACCORDS DE TIGES ISOLES MOBILES DESTINES A ETRE UTILISES DANS UN ENTRAINEMENT DE TIGE DE COMMANDE DE REACTEUR NUCLEAIRE**
[72] MORGAN, KENNETH ALLAN, US
[72] MAJOR, DAVID LEE, US
[72] BROWN, RANDY MORRIS, US
[72] DEAVER, GERALD ALAN, US
[73] GE-HITACHI NUCLEAR ENERGY AMERICAS LLC, US
[85] 2019-01-03
[86] 2017-07-13 (PCT/US2017/042023)
[87] (WO2018/013872)
[30] US (62/361,628) 2016-07-13
[30] US (15/644,908) 2017-07-10

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[11] **3,030,133**
[13] C
[51] **Int.Cl. G10L 15/00 (2013.01) G10L 15/02 (2006.01) G10L 15/10 (2006.01) G10L 15/20 (2006.01) G10L 15/28 (2013.01)**
[25] EN
[54] **TECHNOLOGIES FOR AUTHENTICATING A SPEAKER USING VOICE BIOMETRICS**
[54] **TECHNOLOGIES PERMETTANT D'AUTHENTIFIER UN LOCUTEUR A L'AIDE D'ATTRIBUTS BIOMETRIQUES VOCAUX**
[72] DACHIRAJU, RAJESH, IN
[72] GANAPATHIRAJU, ARAVIND, IN
[72] IYER, ANANTH NAGARAJA, US
[72] WYSS, FELIX IMMANUEL, US
[73] GENESYS TELECOMMUNICATIONS LABORATORIES, INC., US
[85] 2019-01-07
[86] 2017-06-02 (PCT/US2017/035806)
[87] (WO2017/210630)
[30] US (62/344,647) 2016-06-02

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[11] **3,030,211**
[13] C
[51] **Int.Cl. F16L 21/04 (2006.01) F16L 1/26 (2006.01) F16L 17/10 (2006.01) F16L 19/07 (2006.01) F16L 19/08 (2006.01) F16L 21/08 (2006.01) F16L 23/024 (2006.01)**
[25] EN
[54] **INDEPENDENTLY HYDRAULICALLY CLAMPED AND SEALED FITTING**
[54] **RACCORD SCELLE ET PINCE DE MANIERE HYDRAULIQUE INDEPENDANTE**
[72] LOUDEN, AARON Z., US
[72] BEARD, GLENN, US
[72] MEENATHETHIL, SHON JOSEPH GEORGE, IN
[73] THE PIPE LINE DEVELOPMENT COMPANY, US
[86] (3030211)
[87] (3030211)
[22] 2019-01-14
[30] US (15/872,305) 2018-01-16

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[11] **3,030,290**
[13] C
[51] **Int.Cl. H01R 4/66 (2006.01) E02D 7/04 (2006.01) H01R 4/58 (2006.01) H02G 13/00 (2006.01)**
[25] EN
[54] **ELECTRICAL CONNECTION DEVICES WITH WELDED WIRE LEADS**
[54] **DISPOSITIFS DE CONNEXION ELECTRIQUE A PISTES DE FILS SOUDES**
[72] STILWELL, CHARLES MITCHELL, US
[72] ABEDRABOH, MAMOON TAWFIQ, US
[73] HUBBELL INCORPORATED, US
[85] 2019-01-08
[86] 2017-07-13 (PCT/US2017/041816)
[87] (WO2018/013742)
[30] US (62/361,646) 2016-07-13

[11] **3,033,958**
[13] C
[51] **Int.Cl. B64D 11/00 (2006.01) B64D 27/10 (2006.01) B64D 27/16 (2006.01) B64D 27/18 (2006.01) B64D 33/02 (2006.01) B64D 33/08 (2006.01)**
[25] EN
[54] **AIR INTAKE SYSTEMS AND METHODS OF ASSEMBLY THEREOF**
[54] **SYSTEMES D'ENTREE D'AIR ET LEURS PROCEDES DE MONTAGE**
[72] DIAZ, CARLOS ENRIQUE, DE
[72] HERNANDEZ, ALVARO ENRIQUE, US
[72] BALADI, MEHDI MILANI, IT
[72] KIMBALL, DAVID WILLIAM, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2019-02-14
[86] 2017-08-08 (PCT/US2017/045881)
[87] (WO2018/038909)
[30] IT (102016000086511) 2016-08-22

[11] **3,034,867**
[13] C
[51] **Int.Cl. G06Q 40/08 (2012.01) G06Q 30/02 (2012.01) G06Q 10/00 (2012.01) G06Q 40/00 (2012.01)**
[25] EN
[54] **SYSTEM AND NETWORK FOR TIERED OPTIMIZATION**
[54] **SYSTEME ET RESEAU D'OPTIMISATION A PLUSIEURS NIVEAUX**
[72] MACINNIS, DAVID, US
[72] JABBEN, JENNIFER, US
[72] DALENTA, TERESA J., US
[73] ALLSTATE INSURANCE COMPANY, US
[85] 2019-02-22
[86] 2017-08-23 (PCT/US2017/048178)
[87] (WO2018/039321)
[30] US (15/245,343) 2016-08-24

[11] **3,035,849**
[13] C
[51] **Int.Cl. F17C 5/04 (2006.01)**
[25] EN
[54] **FACILITY, METHOD FOR STORING AND LIQUEFYING A LIQUEFIED GAS AND ASSOCIATED TRANSPORT VEHICLE**
[54] **INSTALLATION, PROCEDE POUR STOCKER ET RELIQUEFIER UN GAZ LIQUEFIE ET VEHICULE DE TRANSPORT ASSOCIE**
[72] BERNHARDT, JEAN-MARC, FR
[72] DURAND, FABIEN, FR
[72] GONDRAND, CECILE, FR
[72] GRABIE, VERONIQUE, FR
[73] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2019-03-05
[86] 2017-07-19 (PCT/FR2017/051964)
[87] (WO2018/046809)
[30] FR (1658258) 2016-09-06

[11] **3,036,351**
[13] C
[51] **Int.Cl. H04W 28/26 (2009.01) H04W 72/02 (2009.01)**
[25] EN
[54] **METHOD FOR RESERVING FINITE NUMBER OF RESOURCES USED FOR PERFORMING V2X COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM, AND TERMINAL USING SAME**
[54] **PROCEDE POUR RESERVER UN NOMBRE FINI DE RESSOURCES UTILISEES POUR EFFECTUER UNE COMMUNICATION V2X DANS UN SYSTEME DE COMMUNICATION SANS FIL, ET TERMINAL D'UTILISATION ASSOCIE**
[72] LEE, SEUNGMIN, KR
[72] SEO, HANBYUL, KR
[72] CHAE, HYUKJIN, KR
[72] KIM, YOUNGTAE, KR
[73] LG ELECTRONICS INC., KR
[85] 2019-03-08
[86] 2017-04-07 (PCT/KR2017/003843)
[87] (WO2017/176096)
[30] US (62/319,733) 2016-04-07
[30] US (62/334,444) 2016-05-10
[30] US (62/335,656) 2016-05-12
[30] US (62/341,686) 2016-05-26
[30] US (62/345,789) 2016-06-05
[30] US (62/348,127) 2016-06-09
[30] US (62/376,373) 2016-08-17
[30] US (62/378,745) 2016-08-24
[30] US (62/379,225) 2016-08-24
[30] US (62/379,263) 2016-08-25
[30] US (62/381,593) 2016-08-31
[30] US (62/382,307) 2016-09-01
[30] US (62/382,743) 2016-09-01
[30] US (62/384,185) 2016-09-06
[30] US (62/385,962) 2016-09-10
[30] US (62/385,967) 2016-09-10
[30] US (62/393,158) 2016-09-12
[30] US (62/400,620) 2016-09-27
[30] US (62/400,683) 2016-09-28
[30] US (62/401,188) 2016-09-29
[30] US (62/403,048) 2016-09-30
[30] US (62/403,673) 2016-10-03
[30] US (62/406,373) 2016-10-10
[30] US (62/406,468) 2016-10-11
[30] US (62/421,401) 2016-11-14
[30] US (62/475,234) 2017-03-23

[11] **3,036,690**
[13] C
[51] **Int.Cl. A61K 38/16 (2006.01) C12N 5/095 (2010.01) C07K 14/47 (2006.01)**
[25] EN
[54] **METHODS FOR ENHANCING LIFESPAN AND/OR TREATING CELLULAR PROLIFERATIVE DISORDERS BY TRANSPLANTATION**
[54] **PROCEDES D'AMELIORATION DE LA DUREE DE VIE ET/OU DE TRAITEMENT DE TROUBLES PROLIFERATIFS CELLULAIRES PAR TRANSPLANTATION**
[72] SHEN, CHE-KUN JAMES, CN
[72] SHYU, YU-CHIAU, CN
[72] HUNG, CHUN-HAO, CN
[73] ACADEMIA SINICA, CN
[85] 2019-03-12
[86] 2017-09-13 (PCT/US2017/051310)
[87] (WO2018/052964)
[30] US (62/393,665) 2016-09-13

[11] **3,036,762**
[13] C
[51] **Int.Cl. B60W 30/06 (2006.01)**
[25] EN
[54] **PARKING ASSIST METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF D'AIDE AU STATIONNEMENT**
[72] SUZUKI, YASUHIRO, JP
[72] HAYAKAWA, YASUHISA, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2019-03-13
[86] 2016-09-13 (PCT/JP2016/076928)
[87] (WO2018/051396)

[11] **3,038,111**
[13] C
[51] **Int.Cl. H04N 19/80 (2014.01) H04N 19/117 (2014.01) H04N 19/159 (2014.01) H04N 19/182 (2014.01) H04N 19/61 (2014.01) H04N 19/86 (2014.01)**
[25] EN
[54] **DECODING DEVICE, DECODING METHOD, ENCODING DEVICE AND ENCODING METHOD**
[54] **DISPOSITIF DE DECODAGE, METHODE DE DECODAGE, DISPOSITIF DE CODAGE ET METHODE DE CODAGE**
[72] AONO, TOMOKO, JP
[72] IKAI, TOMOHIRO, JP
[72] YASUGI, YUKINOBU, JP
[73] SHARP KABUSHIKI KAISHA, JP
[86] (3038111)
[87] (3038111)
[22] 2010-11-10
[62] 2,784,291
[30] JP (2009-288448) 2009-12-18

[11] **3,038,522**
[13] C
[51] **Int.Cl. B66F 9/18 (2006.01) B66F 9/00 (2006.01)**
[25] EN
[54] **CLAMP DEVICE WITH SECONDARY CONTROL CIRCUIT**
[54] **DISPOSITIF DE SERRAGE AVEC CIRCUIT DE COMMANDE SECONDAIRE**
[72] WALTHERS, CHRISTOPHER M., US
[73] CASCADE CORPORATION, US
[85] 2019-03-26
[86] 2017-05-05 (PCT/US2017/031368)
[87] (WO2018/101980)
[30] US (15/367,002) 2016-12-01

[11] **3,038,950**
[13] C
[51] **Int.Cl. A61N 5/02 (2006.01) A61B 18/18 (2006.01)**
[25] EN
[54] **SYSTEMS, APPARATUS, METHODS, AND PROCEDURES FOR THE NON-INVASIVE TREATMENT OF TISSUE USING MICROWAVE ENERGY**
[54] **SYSTEMES, APPAREILS, PROCEDES ET PROCEDURES DE TRAITEMENT NON INVASIF DE TISSUS EN UTILISANT L'ENERGIE DE MICROONDES**
[72] KIM, STEVEN, US
[72] FRANCIS, DANIEL, US
[72] JOHNSON, JESSI E., US
[72] SALAMINI, ALEXEY, US
[72] SU, TED, US
[72] CHUNG, DONG HOON, US
[72] BEN-HAIM, YOAV, US
[72] LOEW, CHRISTOPHER, US
[72] KOPELOW, LEO, US
[72] CHEW, SUNMI, US
[73] MIRADRY, INC., US
[86] (3038950)
[87] (3038950)
[22] 2009-10-22
[62] 2,741,109
[30] US (61/196,948) 2008-10-22
[30] US (PCT/US2008/013650) 2008-12-12
[30] US (61/208,315) 2009-02-23
[30] US (PCT/US2009/002403) 2009-04-17
[30] US (61/279,153) 2009-10-16

[11] **3,039,266**
[13] C
[51] **Int.Cl. H04L 27/00 (2006.01)**
[25] EN
[54] **UL WAVEFORM DURING RACH PROCEDURE AND AUTONOMOUS UL TRANSMISSION**
[54] **FORME D'ONDE UL PENDANT UNE PROCEDURE RACH ET TRANSMISSION UL AUTONOME**
[72] ZHANG, XIAOXIA, US
[72] LUO, TAO, US
[72] YOO, TAESANG, US
[72] MONTOJO, JUAN, US
[72] FAN, ZHIFEI, US
[73] QUALCOMM INCORPORATED, US
[85] 2019-04-02
[86] 2017-11-16 (PCT/US2017/062081)
[87] (WO2018/094094)
[30] US (62/422,801) 2016-11-16
[30] US (15/813,811) 2017-11-15

[11] **3,039,475**
[13] C
[51] **Int.Cl. E21B 41/00 (2006.01) G05B 23/02 (2006.01)**
[25] EN
[54] **AUTOMATED MUTUAL IMPROVEMENT OF OILFIELD MODELS**
[54] **AMELIORATION MUTUELLE AUTOMATISEE DE MODELES DE CHAMP PETROLIFERE**
[72] ZHANG, FEIFEI, US
[72] HOUCHENS, BRENT CHARLES, US
[72] WINSTON, JOSEPH BLAKE, US
[72] REDMAN, MICHAEL KEITH, US
[72] WESLEY, AVINASH, US
[72] MYERS, ETHAN, US
[72] LU, KAIJI, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2019-04-04
[86] 2017-04-27 (PCT/US2017/029765)
[87] (WO2018/106279)
[30] US (62/431,359) 2016-12-07

[11] **3,039,669**
[13] C
[51] **Int.Cl. E04H 12/34 (2006.01) E04B 1/343 (2006.01) E04H 12/00 (2006.01) E21B 7/02 (2006.01) E21B 15/00 (2006.01)**
[25] EN
[54] **SIDE-SADDLE CANTILEVER MAST**
[54] **MAT EN PORTE-A-FAUX DU TYPE LATERAL**
[72] GUPTA, ASHISH, US
[72] HAUSE, RYAN, US
[72] REDDY, PADIRA, US
[73] NABORS DRILLING TECHNOLOGIES USA, INC., US
[85] 2019-04-05
[86] 2017-11-07 (PCT/US2017/060429)
[87] (WO2018/085850)
[30] US (62/418,656) 2016-11-07

[11] **3,041,044**
[13] C
[51] **Int.Cl. H04N 21/2343 (2011.01) H04N 21/845 (2011.01)**
[25] EN
[54] **CONSTANT-SLOPE BITRATE ALLOCATION FOR DISTRIBUTED ENCODING**
[54] **ATTRIBUTION DE DEBIT BINAIRE A PENTE CONSTANTE POUR UN CODAGE DISTRIBUE**
[72] DE COCK, JAN, US
[72] AARON, ANNE, US
[73] NETFLIX, INC., US
[85] 2019-04-17
[86] 2017-10-17 (PCT/US2017/056902)
[87] (WO2018/075465)
[30] US (15/296,580) 2016-10-18

[11] **3,041,716**
[13] C
[51] **Int.Cl. A45D 2/12 (2006.01) A45D 2/02 (2006.01) A45D 2/10 (2006.01)**
[25] EN
[54] **HAIR STYLING DEVICE**
[54] **DISPOSITIF DE COIFFAGE DES CHEVEUX**
[72] DE BENEDICTIS, ALFREDO, GB
[72] HUGHES, MARK CHRISTOPHER, GB
[73] TF3 LIMITED, GB
[86] (3041716)
[87] (3041716)
[22] 2011-12-16
[62] 2,817,853
[30] GB (1021458.3) 2010-12-17

[11] **3,041,896**
[13] C
[51] **Int.Cl. A61F 2/32 (2006.01) A61F 2/34 (2006.01) A61F 2/36 (2006.01)**
[25] EN
[54] **HIP JOINT DEVICE AND METHOD**
[54] **DISPOSITIF D'ARTICULATION DE LA HANCHE ET PROCEDE CORRESPONDANT**
[72] FORSELL, PETER, CH
[73] IMPLANTICA PATENT LTD., MT
[86] (3041896)
[87] (3041896)
[22] 2010-07-12
[62] 2,805,021
[30] SE (0900957-2) 2009-07-10
[30] SE (0900958-0) 2009-07-10
[30] SE (0900959-8) 2009-07-10
[30] SE (0900960-6) 2009-07-10
[30] SE (0900962-2) 2009-07-10
[30] SE (0900963-0) 2009-07-10
[30] SE (0900965-5) 2009-07-10
[30] SE (0900966-3) 2009-07-10
[30] SE (0900968-9) 2009-07-10
[30] SE (0900969-7) 2009-07-10
[30] SE (0900970-5) 2009-07-10
[30] SE (0900972-1) 2009-07-10
[30] SE (0900973-9) 2009-07-10
[30] SE (0900974-7) 2009-07-10
[30] SE (0900976-2) 2009-07-10
[30] SE (0900978-8) 2009-07-10
[30] SE (0900981-2) 2009-07-10
[30] US (61/229735) 2009-07-30
[30] US (61/229738) 2009-07-30
[30] US (61/229739) 2009-07-30
[30] US (61/229743) 2009-07-30
[30] US (61/229745) 2009-07-30
[30] US (61/229746) 2009-07-30
[30] US (61/229747) 2009-07-30
[30] US (61/229748) 2009-07-30
[30] US (61/229751) 2009-07-30
[30] US (61/229752) 2009-07-30
[30] US (61/229755) 2009-07-30
[30] US (61/229761) 2009-07-30
[30] US (61/229767) 2009-07-30
[30] US (61/229778) 2009-07-30
[30] US (61/229786) 2009-07-30
[30] US (61/229789) 2009-07-30
[30] US (61/229796) 2009-07-30

[11] **3,042,120**
[13] C
[51] **Int.Cl. C22C 38/12 (2006.01) B21C 1/00 (2006.01) C21D 7/13 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/08 (2006.01)**
[25] EN
[54] **MEDIUM-MANGANESE STEEL PRODUCT FOR LOW-TEMPERATURE USE AND METHOD FOR THE PRODUCTION THEREOF**
[54] **PRODUIT EN ACIER AU MANGANESE MOYEN POUR UTILISATION A BASSE TEMPERATURE ET SON PROCEDE DE FABRICATION**
[72] PALZER, PETER, DE
[72] OTTO, MANUEL, DE
[72] KOHLER, KAI, DE
[72] EVERTZ, THOMAS, DE
[73] SALZGITTER FLACHSTAHL GMBH, DE
[85] 2019-04-29
[86] 2017-10-27 (PCT/EP2017/077628)
[87] (WO2018/083035)
[30] DE (10 2016 120 895.7) 2016-11-02

[11] **3,042,591**
[13] C
[51] **Int.Cl. H04W 16/28 (2009.01) H04J 11/00 (2006.01)**
[25] EN
[54] **COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE FOR DETERMINING A WAVEFORM TO BE USED IN AN UPLINK TRANSMISSION OF A TERMINAL DEVICE**
[54] **METHODE DE COMMUNICATION, TERMINAL ET DISPOSITIF RESEAU POUR DETERMINER UNE FORME D'ONDE A UTILISER DANS UNE TRANSMISSION DE LIAISON MONTANTE DU TERMINAL**
[72] TANG, HAI, CN
[72] XU, HUA, CA
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-05-02
[86] 2016-11-03 (PCT/CN2016/104441)
[87] (WO2018/081972)

[11] **3,042,603**
[13] C
[51] **Int.Cl. A01C 7/20 (2006.01) A01C 7/08 (2006.01) A01C 15/04 (2006.01)**
[25] EN
[54] **DROP CHUTE DEFLECTOR FOR ENHANCING ENTRAINMENT OF GRANULAR PRODUCT IN AN AIRSTREAM OF AN AGRICULTURAL PRODUCT APPLICATOR**
[54] **DEFLECTEUR DE CONDUIT DE CHUTE POUR AMELIORER L'ENTRAINEMENT D'UN PRODUIT GRANULAIRE DANS UN FLUX D'AIR D'UN APPLICATEUR DE PRODUIT AGRICOLE**
[72] DENIS, JOEL, CA
[72] ROBERGE, RYAN C., CA
[72] ROBERGE, MARTIN J., CA
[73] CNH INDUSTRIAL CANADA, LTD., CA
[86] (3042603)
[87] (3042603)
[22] 2019-05-08
[30] US (15/988,187) 2018-05-24

[11] **3,042,626**
[13] C
[51] **Int.Cl. C09K 8/12 (2006.01) C09K 8/03 (2006.01)**
[25] EN
[54] **EMBEDDED TREATMENT FLUID ADDITIVES FOR USE IN SUBTERRANEAN FORMATION OPERATIONS**
[54] **ADDITIFS DE FLUIDE DE TRAITEMENT INCORPORES DESTINES A ETRE UTILISES DANS DES OPERATIONS DE FORMATION SOUTERRAINE**
[72] SINGH, DIPTI, US
[72] BEUTERBAUGH, AARON MICHAEL, US
[72] REYES, ENRIQUE ANTONIO, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2019-05-02
[86] 2016-12-07 (PCT/US2016/065308)
[87] (WO2018/106224)

[11] **3,043,101**
[13] C
[51] **Int.Cl. B25J 9/04 (2006.01) B25J 9/10 (2006.01) B25J 11/00 (2006.01)**
[25] EN
[54] **MANIPULATOR FOR PIVOTING AN OBJECT OF MANIPULATION**
[54] **MANIPULATEUR DE PIVOTEMENT D'UN OBJET DE MANIPULATION**
[72] MALIVOIR, PHILIPPE, FR
[73] TMT TAPPING-MEASURING-TECHNOLOGY SARL, LU
[85] 2019-05-07
[86] 2016-12-06 (PCT/EP2016/079818)
[87] (WO2018/103821)

[11] **3,043,541**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61M 5/142 (2006.01) A61M 5/172 (2006.01)**
[25] EN
[54] **METHOD AND/OR SYSTEM FOR DETERMINING BLOOD GLUCOSE REFERENCE SAMPLE TIMES**
[54] **PROCEDE ET/OU SYSTEME PERMETTANT DE DETERMINER DES DUREES D'OBTENTION D'ECHANTILLONS DE REFERENCE DE GLYCEMIE**
[72] GOTTLIEB, REBECCA K., US
[72] RAMACHANDRAN, MEENA, US
[73] MEDTRONIC MINIMED, INC., US
[86] (3043541)
[87] (3043541)
[22] 2011-06-30
[62] 2,802,271
[30] US (61/361876) 2010-07-06
[30] US (61/407888) 2010-10-28
[30] US (13/171244) 2011-06-28

[11] **3,043,761**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-TIM-3 ANTIBODIES FOR COMBINATION WITH ANTI-PD-L1 ANTIBODIES**
[54] **ANTICORPS ANTI-TIM-3 POUR COMBINAISON AVEC DES ANTICORPS ANTI-PD-L1**
[72] LI, YIWEN, US
[72] ZHANG, YI, US
[73] ELI LILLY AND COMPANY, US
[85] 2019-05-13
[86] 2017-12-01 (PCT/US2017/064207)
[87] (WO2018/106529)
[30] US (62/431,485) 2016-12-08

[11] **3,045,211**
[13] C
[51] **Int.Cl. F16F 7/10 (2006.01) E04B 1/98 (2006.01)**
[25] EN
[54] **COMPACT SPATIAL ELLIPSOIDAL MASS PENDULUM**
[54] **PENDULE A MASSE ELLIPSOIDAL SPATIAL COMPACT**
[72] DAHL, BURKHARD, DE
[73] DAHL, BURKHARD, DE
[85] 2019-05-28
[86] 2017-11-28 (PCT/EP2017/080623)
[87] (WO2018/099896)
[30] DE (10 2016 122 999.7) 2016-11-29

[11] **3,045,598**
[13] C
[51] **Int.Cl. B01D 53/26 (2006.01) B01J 20/16 (2006.01) B01J 20/28 (2006.01) H05B 3/20 (2006.01)**
[25] EN
[54] **SELF-HEATING SHEET-LIKE MATERIAL FOR MOISTURE ABSORPTION AND DESORPTION, MOISTURE ABSORPTION AND DESORPTION BODY, AND MOISTURE ABSORPTION AND DESORPTION DEVICE USING THE SAME**
[54] **ARTICLE EN FORME DE FEUILLE AUTO-CHAUFFANT DESTINE A ETRE UTILISE POUR L'ABSORPTION/DESORPTION D'HUMIDITE, CORPS D'ABSORPTION/DESORPTION D'HUMIDITE, ET DISPOSITIF D'ABSORPTION/DES ORPTION D'HUMIDITE UTILISANT LEDIT ARTICLE ET LEDIT CORPS**
[72] OKUMURA, KATSUYA, JP
[72] TSUCHIDA, MINORU, JP
[72] MURAMATSU, DAISUKE, JP
[73] TOMOEGAWA CO., LTD., JP
[85] 2019-05-30
[86] 2018-01-10 (PCT/JP2018/000297)
[87] (WO2018/131591)
[30] JP (2017-004961) 2017-01-16

[11] **3,046,140**
[13] C
[51] **Int.Cl. H04B 7/06 (2006.01)**
[25] EN
[54] **CONFIGURATION OF BEAMFORMING SETTINGS FOR A WIRELESS RADIO TRANSCEIVER DEVICE**
[54] **CONFIGURATION DE REGLAGES DE MISE EN FORME DE FAISCEAUX POUR DISPOSITIF EMETTEUR-RECEPTEUR RADIOELECTRIQUE SANS FIL**
[72] NILSSON, ANDREAS, SE
[72] ATHLEY, FREDRIK, SE
[72] PETERSSON, SVEN, SE
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2019-06-05
[86] 2016-12-06 (PCT/EP2016/079807)
[87] (WO2018/103820)

[11] **3,046,916**
[13] C
[51] **Int.Cl. F23G 7/08 (2006.01) F23D 11/44 (2006.01) F23D 14/66 (2006.01) F23L 9/00 (2006.01) F23L 15/00 (2006.01)**
[25] EN
[54] **WASTE GAS COMBUSTOR WITH SECONDARY AIR CONTROL AND LIQUID CONTAINMENT/VAPORIZATION CHAMBER**
[54] **APPAREIL DE COMBUSTION DU GAZ RESIDUAIRE AYANT UN CONTROLE AERIEN SECONDAIRE ET UN RESERVOIR DE LIQUIDE OU UNE CHAMBRE DE VAPORISATION**
[72] BOUCHARD, JUSTIN, CA
[72] NELSON, JEFFREY DAVID, CA
[73] EMISSION RX LTD., CA
[86] (3046916)
[87] (3046916)
[22] 2019-06-18
[30] US (62687006) 2018-06-18

[11] **3,046,947**
[13] C
[51] **Int.Cl. A01K 61/60 (2017.01)**
[25] EN
[54] **A FLOATING ARRANGEMENT FOR BREEDING FISH AND SHELLFISH**
[54] **SYSTEME FLOTTANT POUR L'ELEVAGE DE POISSONS ET DE CRUSTACES**
[72] VATSVAG, JAN, NO
[73] MARICULTURE AS, NO
[85] 2019-06-12
[86] 2017-12-12 (PCT/NO2017/050318)
[87] (WO2018/111111)
[30] NO (20161999) 2016-12-15

[11] **3,046,967**
[13] C
[51] **Int.Cl. A61C 17/02 (2006.01)**
[25] EN
[54] **ORAL IRRIGATOR WITH MAGNETIC ATTACHMENT**
[54] **IRRIGATEUR BUCCAL A FIXATION MAGNETIQUE**
[72] WAGNER, ROBERT, US
[72] MCCLARD, CHRISTINA, US
[73] WATER PIK, INC., US
[85] 2019-06-12
[86] 2017-12-15 (PCT/US2017/066762)
[87] (WO2018/112387)
[30] US (62/434,993) 2016-12-15

[11] **3,047,390**
[13] C
[51] **Int.Cl. H04N 21/8355 (2011.01) H04N 21/432 (2011.01) H04N 21/643 (2011.01)**
[25] EN
[54] **OUTPUT AND PLAYBACK CONTROL RULES DELIVERY FOR ADAPTIVE BITRATE STREAMING**
[54] **DISTRIBUTION DE REGLES DE COMMANDE DE SORTIE ET DE LECTURE POUR UNE DIFFUSION EN CONTINU A DEBIT BINAIRE ADAPTATIF**
[72] NUGENT, PAUL ADRIAN, GB
[73] ARRIS ENTERPRISES LLC, US
[85] 2019-06-17
[86] 2017-12-20 (PCT/US2017/067471)
[87] (WO2018/119014)
[30] US (15/384,702) 2016-12-20

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[11] **3,047,789**
[13] C
[51] **Int.Cl. B25D 1/12 (2006.01) B25D 1/02 (2006.01)**
[25] EN
[54] **HAMMER HEAD WITH INTERFERENCE FIT**
[54] **TETE DE MARTEAU AVEC AJUSTEMENT SERRE**
[72] BENDORF, SCOTT A., US
[73] SNAP-ON INCORPORATED, US
[86] (3047789)
[87] (3047789)
[22] 2019-06-21
[30] US (16/204,395) 2018-11-29

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[11] **3,050,497**
[13] C
[51] **Int.Cl. A61F 9/008 (2006.01) A61B 34/20 (2016.01)**
[25] EN
[54] **PATIENT INTERFACE FOR OPHTHALMOLOGIC DIAGNOSTIC AND INTERVENTIONAL PROCEDURES**
[54] **INTERFACE PATIENT POUR UN DIAGNOSTIC OPHTALMOLOGIQUE ET DES PROCEDURES D'INTERVENTION**
[72] GOODING, PHILLIP, US
[73] AMO DEVELOPMENT, LLC, US
[86] (3050497)
[87] (3050497)
[22] 2012-10-19
[62] 2,852,947
[30] US (13/279,152) 2011-10-21
[30] US (13/279,126) 2011-10-21
[30] US (13/279,155) 2011-10-21
[30] US (13/279,181) 2011-10-21

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[11] **3,051,400**
[13] C
[51] **Int.Cl. E21B 19/00 (2006.01) B63B 35/44 (2006.01)**
[25] EN
[54] **JOINT RECOGNITION SYSTEM**
[54] **SYSTEME DE RECONNAISSANCE D'ARTICULATION**
[72] PILGRIM, RICK, US
[72] DELORY, STEPHEN JOSEPH, US
[72] ROPER, RICHARD ROBERT, US
[73] ENSCO INTERNATIONAL INCORPORATED, US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/015066)
[87] (WO2018/140508)
[30] US (62/449,853) 2017-01-24

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[11] **3,051,985**
[13] C
[51] **Int.Cl. E21B 41/00 (2006.01) B60P 3/00 (2006.01) B60P 3/035 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **MOBILE DISTRIBUTION STATION HAVING SATELLITE DISH**
[54] **STATION DE DISTRIBUTION MOBILE AVEC ANTENNE PARABOLIQUE**
[72] SHOCK, RICKY DEAN, US
[73] FUEL AUTOMATION STATION, LLC, US
[86] (3051985)
[87] (3051985)
[22] 2019-08-13
[30] US (62/722,318) 2018-08-24

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[11] **3,052,009**
[13] C
[51] **Int.Cl. H01M 4/1393 (2010.01) H01M 4/133 (2010.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **METHOD OF PRODUCING POSITIVE ELECTRODE MATERIAL FOR LITHIUM-ION SECONDARY BATTERIES**
[54] **PROCEDE DE PRODUCTION DE MATERIAU D`ELECTRODE POSITIVE POUR BATTERIES SECONDAIRES AU LITHIUM-ION**
[72] NOZOE, TSUTOMU, JP
[72] YAMAYA, RYUUTA, JP
[73] SUMITOMO METAL MINING CO., LTD., JP
[86] (3052009)
[87] (3052009)
[22] 2019-08-14
[30] JP (2018-156643) 2018-08-23

[11] **3,052,955**
[13] C
[51] **Int.Cl. B21D 22/28 (2006.01) B21D 22/20 (2006.01) B21D 22/24 (2006.01) B21D 24/00 (2006.01) B21D 24/16 (2006.01) B21D 51/38 (2006.01)**
[25] EN
[54] **TAPERED METAL CUP AND METHOD OF FORMING THE SAME**
[54] **COUPELLE METALLIQUE EVASEE ET SON PROCEDE DE FORMATION**
[72] SCOTT, ANTHONY J., US
[73] BALL CORPORATION, US
[85] 2019-08-07
[86] 2017-11-20 (PCT/US2017/062582)
[87] (WO2018/147916)
[30] US (62/455,697) 2017-02-07
[30] US (15/811,032) 2017-11-13

[11] **3,053,396**
[13] C
[51] **Int.Cl. C22C 38/04 (2006.01) B21D 22/02 (2006.01) C21D 7/00 (2006.01) C22C 38/02 (2006.01) C23C 30/00 (2006.01)**
[25] EN
[54] **PRESS HARDENED STEEL WITH EXTREMELY HIGH STRENGTH**
[54] **ACIER TREMPE A LA PRESSE A RESISTANCE EXTREMEMENT ELEVEE**
[72] PAVLINA, ERIK JAMES, US
[73] AK STEEL PROPERTIES, INC., US
[85] 2019-08-09
[86] 2018-02-23 (PCT/US2018/019483)
[87] (WO2018/160462)
[30] US (62/465,523) 2017-03-01

[11] **3,053,978**
[13] C
[51] **Int.Cl. F23G 5/00 (2006.01) F23G 5/04 (2006.01) F23G 5/46 (2006.01) F23J 15/02 (2006.01) F26B 21/02 (2006.01) F26B 23/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CONTINUOUSLY DRYING BULK GOODS, IN PARTICULAR WOOD CHIPS AND/OR WOOD FIBERS COMPRISING A HEAT EXCHANGER**
[54] **APPAREIL ET PROCEDE DE SECHAGE CONTINU DE PRODUITS EN VRAC, EN PARTICULIER DE COPEAUX DE BOIS ET/OU DE FIBRES DE BOIS, COMPRENANT UN ECHANGEUR DE CHALEUR**
[72] HENSEL, GUNTER, DE
[72] SEIFERT, WOLFGANG, DE
[73] DOUGLAS TECHNICAL LIMITED, IM
[85] 2019-08-19
[86] 2017-03-03 (PCT/EP2017/055072)
[87] (WO2018/157947)

[11] **3,054,437**
[13] C
[51] **Int.Cl. E04B 9/06 (2006.01) E04B 9/12 (2006.01)**
[25] EN
[54] **OPEN PLENUM UTILITY CHANNEL**
[54] **CANAL UTILITAIRE A PLENUM OUVERT**
[72] UNDERKOFLER, ABRAHAM M., US
[72] GULBRANDSEN, PEDER J., US
[72] PAULSEN, MARK R., US
[73] USG INTERIORS, LLC, US
[85] 2019-08-22
[86] 2018-02-26 (PCT/US2018/019672)
[87] (WO2018/160483)
[30] US (15/447,147) 2017-03-02

[11] **3,054,961**
[13] C
[51] **Int.Cl. H04N 21/458 (2011.01) G06Q 20/00 (2012.01) G06Q 30/00 (2012.01) H04L 12/16 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR OBTAINING ELECTRONIC TRANSACTION CERTIFICATE, MULTIMEDIA PLAYER, AND STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF D'OBTENTION DE CERTIFICAT DE TRANSACTION ELECTRONIQUE, LECTEUR MULTIMEDIA ET SUPPORT DE STOCKAGE**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3054961)
[87] (3054961)
[22] 2015-04-30
[62] 3,022,645

[11] **3,055,065**
[13] C
[51] **Int.Cl. E04F 13/30 (2006.01) E04F 13/08 (2006.01)**
[25] EN
[54] **INTERIOR BUILDING MATERIALS**
[54] **MATERIAUX DE CONSTRUCTION INTERIEURS**
[72] YOKOYAMA, ITARU, JP
[72] WATANABE, KEN, JP
[73] YOSHINO GYPSUM CO., LTD., JP
[85] 2019-08-29
[86] 2018-03-12 (PCT/JP2018/009504)
[87] (WO2018/168770)
[30] JP (2017-051273) 2017-03-16

[11] **3,055,233**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **JAK KINASE INHIBITOR AND PREPARATION METHOD AND USE THEREOF**
[54] **INHIBITEUR DE KINASE JAK, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WANG, ZHE, CN
[72] FAN, GUOQIN, CN
[72] YANG, SAI, CN
[72] ZENG, ZHIHONG, CN
[73] SHANGHAI LONGWOOD BIOPHARMACEUTICALS CO., LTD., CN
[85] 2019-09-03
[86] 2018-01-23 (PCT/CN2018/073776)
[87] (WO2018/133875)
[30] CN (201710058693.3) 2017-01-23

[11] **3,056,006**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **RESOURCE ALLOCATION METHOD, APPARATUS AND SYSTEM**
[54] **PROCEDE, DISPOSITIF ET SYSTEME D'ATTRIBUTION DE RESSOURCES**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2019-09-10
[86] 2017-03-23 (PCT/CN2017/077900)
[87] (WO2018/170845)

[11] **3,059,030**
[13] C
[51] **Int.Cl. A47B 96/06 (2006.01) A47B 96/14 (2006.01) F16B 12/10 (2006.01)**
[25] EN
[54] **OPENING AND CLOSING TYPE SHELF FIXING CLAMP**
[54] **PINCE DE FIXATION D'ETAGERE DU TYPE A OUVERTURE ET FERMETURE**
[72] WOO, CHEOL SEOK, KR
[73] MSINTECH CO., LTD., KR
[85] 2019-10-03
[86] 2018-03-06 (PCT/KR2018/002611)
[87] (WO2018/190514)
[30] KR (10-2017-0048171) 2017-04-14

[11] **3,059,179**
[13] C
[51] **Int.Cl. B60R 9/08 (2006.01) B60R 9/04 (2006.01)**
[25] EN
[54] **WATER-PROOF SEALING STRUCTURE FOR VEHICLE ROOF RACK**
[54] **STRUCTURE DE SCELLAGE ETANCHE A L`EAU POUR SUPPORT DE TOIT DE VEHICULE**
[72] WANG, CHIU-KUEI, CN
[73] KING RACK INDUSTRIAL CO., LTD., CN
[86] (3059179)
[87] (3059179)
[22] 2019-10-18
[30] TW (107138396) 2018-10-30

[11] **3,060,104**
[13] C
[51] **Int.Cl. C22C 19/05 (2006.01) C22C 30/00 (2006.01)**
[25] EN
[54] **PRECIPITATION HARDENABLE COBALT-NICKEL BASE SUPERALLOY AND ARTICLE MADE THEREFROM**
[54] **SUPERALLIAGE A BASE DE COBALT-NICKEL DURCISSABLE PAR PRECIPITATION ET ARTICLE COMPOSE DE CE SUPERALLIAGE**
[72] FORSIK, STEPHANE, US
[72] POLAR-ROSAS, ALBERTO, US
[72] WANG, TAO, US
[72] KERNION, SAMUEL, US
[72] EPLER, MARIO, US
[72] ZHOU, NING, US
[73] CRS HOLDINGS, LLC, US
[85] 2019-10-15
[86] 2018-04-20 (PCT/US2018/028567)
[87] (WO2019/018038)
[30] US (62/488,294) 2017-04-21

[11] **3,060,753**
[13] C
[51] **Int.Cl. F02C 3/113 (2006.01) B64D 27/24 (2006.01) B64D 35/02 (2006.01) B64D 35/08 (2006.01) F02C 7/36 (2006.01) F02K 3/06 (2006.01)**
[25] EN
[54] **HYBRID ELECTRIC PROPULSION WITH SUPERPOSITION GEARBOX**
[54] **PROPULSION ELECTRIQUE HYBRIDE AVEC BOITE DE VITESSES A SUPERPOSITION**
[72] LEQUE, NICHOLAS D., US
[72] MCCUNE, MICHAEL E., US
[72] POLLY, JOSEPH H., US
[73] UNITED TECHNOLOGIES CORPORATION, US
[86] (3060753)
[87] (3060753)
[22] 2019-10-29
[30] US (16/197,605) 2018-11-21

[11] **3,061,117**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR COMPRESSING/LOADING STENT-VALVES**
[54] **PROCEDE ET APPAREIL POUR COMPRESSER/CHARGER DES VALVES D'ENDOPROTHESES**
[72] ESSINGER, JACQUES, CH
[72] DELALOYE, STEPHANE, CH
[72] HEFTI, JEAN-LUC, CH
[72] MANTANUS, LUC, CH
[72] PARIS, MICHAEL, CH
[73] BOSTON SCIENTIFIC LIMITED, US
[86] (3061117)
[87] (3061117)
[22] 2012-05-03
[62] 2,834,493
[30] EP (11164926.5) 2011-05-05

[11] **3,061,237**
[13] C
[51] **Int.Cl. G02B 27/00 (2006.01) G02B 21/06 (2006.01) G02B 21/36 (2006.01) G02B 27/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVED FOCUS TRACKING USING BLOCKING STRUCTURES**
[54] **SYSTEMES ET METHODES PERMETTANT D'AMELIORER LE SUIVI DE CIBLE AU MOYEN DE STRUCTURES DE BLOCAGE**
[72] CONDELLO, DANILO, US
[72] PRINCE, SIMON, US
[72] HARGIS, DAVID, US
[72] O'SHAUHNESSY, JOHN, US
[72] BUTTERFIELD, WILLIAM, US
[72] BENDICK, JEFFREY, US
[72] NEWMAN, PETER CLARKE, US
[73] ILLUMINA, INC., US
[86] (3061237)
[87] (3061237)
[22] 2018-03-02
[62] 2,997,301
[30] US (62/468,355) 2017-03-07
[30] NL (N2018854) 2017-05-05

[11] **3,061,419**
[13] C
[51] **Int.Cl. B60L 13/04 (2006.01) B60L 13/03 (2006.01)**
[25] EN
[54] **SUSPENSION FRAME ASSEMBLY OF MAGNETIC LEVITATION VEHICLE**
[54] **ENSEMBLE CADRE DE SUSPENSION DE VEHICULE A LEVITATION MAGNETIQUE**
[72] LIU, XIANKAI, CN
[72] DENG, XIAOJUN, CN
[72] YU, DALIAN, CN
[72] LI, HUIJUAN, CN
[72] GUO, HAIXIA, CN
[72] JIANG, FUJIE, CN
[72] LI, ZHAOFU, CN
[72] LUAN, JIN, CN
[72] JIN, HAO, CN
[73] CRRC QINGDAO SIFANG CO., LTD., CN
[85] 2019-10-24
[86] 2018-05-03 (PCT/CN2018/085429)
[87] (WO2019/024554)
[30] CN (201710656775.8) 2017-08-03

[11] **3,061,841**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **GARP-TGF-.BETA. ANTIBODIES**
[54] **ANTICORPS ANTI-GARP-TGF-S**
[72] VAN DER WONING, SEBASTIAN, BE
[72] BORGIONS, FILIP, BE
[72] DREIER, TORSTEN, BE
[72] MARIEN, LORE, BE
[72] DE BOECK, GITTE, BE
[72] LIENART, STEPHANIE, BE
[72] LUCAS, SOPHIE, BE
[72] COULIE, PIERRE, BE
[73] UNIVERSITE CATHOLIQUE DE LOUVAIN, BE
[73] ARGENX BV, NL
[85] 2019-10-29
[86] 2018-05-11 (PCT/EP2018/062251)
[87] (WO2018/206790)
[30] GB (1707561.5) 2017-05-11

[11] **3,062,065**
[13] C
[51] **Int.Cl. E01C 11/14 (2006.01) E01C 11/06 (2006.01)**
[25] EN
[54] **CONCRETE SLAB LOAD TRANSFER AND CONNECTION APPARATUS AND METHOD OF EMPLOYING SAME**
[54] **TRANSFERT DE CHARGE DE DALLE DE BETON ET APPAREIL ET METHODE DE RACCORD L'UTILISANT**
[72] RODDEN, ROBERT ALAN, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2019-10-30
[86] 2018-05-02 (PCT/US2018/030610)
[87] (WO2018/204472)
[30] US (62/500,756) 2017-05-03
[30] US (15/967,689) 2018-05-01

[11] **3,064,289**
[13] C
[51] **Int.Cl. H04W 16/14 (2009.01)**
[25] EN
[54] **DYNAMIC RECLAMATION OF RESOURCES RESERVED FOR FORWARD COMPATIBILITY**
[54] **RECUPERATION DYNAMIQUE DE RESSOURCES RESERVEES POUR UNE COMPATIBILITE ASCENDANTE**
[72] NAM, WOOSEOK, US
[72] LUO, TAO, US
[72] AKKARAKARAN, SONY, US
[72] JOHN WILSON, MAKESH PRAVIN, US
[72] NAGARAJA, SUMEETH, US
[72] CHAKRABORTY, KAUSHIK, US
[72] CHEN, SHENGBO, US
[72] WANG, XIAO FENG, US
[73] QUALCOMM INCORPORATED, US
[85] 2019-11-19
[86] 2018-06-22 (PCT/US2018/038900)
[87] (WO2019/005590)
[30] US (62/527,016) 2017-06-29
[30] US (16/014,689) 2018-06-21

[11] **3,064,493**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A45D 34/04 (2006.01) A45D 44/00 (2006.01) B41F 19/00 (2006.01) B41F 33/00 (2006.01) B41J 3/44 (2006.01)**
[25] EN
[54] **PERSONAL CARE DEVICE WITH AUDIBLE FEEDBACK**
[54] **DISPOSITIF DE SOINS PERSONNELS AVEC RETOUR SONORE**
[72] MESCHKAT, STEPHAN JAMES ANDREAS, DE
[72] RABE, THOMAS ELLIOT, US
[72] KOLAKOSKI, REBECCA ASHLEY, US
[72] FLOYD, BRIAN LEE, US
[72] SHERMAN, FAIZ FEISAL, US
[72] VERNON, PAUL, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-11-20
[86] 2018-06-13 (PCT/US2018/037227)
[87] (WO2018/231914)
[30] US (62/520,966) 2017-06-16

[11] **3,065,466**
[13] C
[51] **Int.Cl. B01F 23/80 (2022.01) B01F 23/50 (2022.01) B01D 45/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR TREATMENT OF HYDRAULIC FRACTURING FLUID DURING HYDRAULIC FRACTURING**
[54] **APPAREIL ET METHODE DE TRAITEMENT DU FLUIDE DE FRACTURATION HYDRAULIQUE PENDANT LA FRACTURATION HYDRAULIQUE**
[72] ELMS, DAVID JAMES, US
[72] HUDSPETH, GREGORY ALLEN, US
[72] CLARK, DONALD PATRICK, CA
[72] SKOW, JAMES MICHAEL, CA
[73] HAVEN TECHNOLOGY SOLUTIONS LLC, US
[73] CH INTERNATIONAL EQUIPMENT LTD., CA
[86] (3065466)
[87] (3065466)
[22] 2019-12-18
[30] US (16/228,658) 2018-12-20

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[11] **3,065,968**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61K 51/10 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) G01N 33/574 (2006.01) G01N 33/577 (2006.01)**
[25] EN
[54] **ANTI-CD79B ANTIBODIES AND IMMUNOCONJUGATES AND METHODS OF USE**
[54] **ANTICORPS ANTI-CD79B, IMMUNOCONJUGUES, ET PROCEDES D'UTILISATION**
[72] CHEN, YVONNE, US
[72] DENNIS, MARK, US
[72] DORNAN, DAVID, US
[72] ELKINS, KRISTI, US
[72] JUNUTULA, JAGATH REDDY, US
[72] POLSON, ANDREW, US
[72] ZHENG, BING, US
[73] GENENTECH, INC., US
[86] (3065968)
[87] (3065968)
[22] 2008-07-15
[62] 2,693,255
[30] US (60/950,052) 2007-07-16
[30] US (61/025,137) 2008-01-31
[30] US (61/032,790) 2008-02-29
[30] US (61/054,709) 2008-05-20

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[11] **3,066,191**
[13] C
[51] **Int.Cl. H04W 72/12 (2009.01)**
[25] EN
[54] **A METHOD AND DEVICE IN A RADIO NETWORK**
[54] **PROCEDE ET DISPOSITIF DANS UN RESEAU RADIO**
[72] WANG, MIN, SE
[72] CHRISTOFFERSSON, JAN, SE
[72] LIU, JINHUA, CN
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2019-12-04
[86] 2018-05-04 (PCT/EP2018/061630)
[87] (WO2018/202907)
[30] CN (PCT/CN2017/083334) 2017-05-05

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[11] **3,068,379**
[13] C
[51] **Int.Cl. A01C 7/12 (2006.01) A01C 5/06 (2006.01) A01C 7/08 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **MODULAR METER ROLLER SHAFT SYSTEM**
[54] **SYSTEME D'ARBRE DE ROULEAU DOSEUR MODULAIRE**
[72] BOILY, GUILLAUME CLOUTIER, CA
[72] CHAHLEY, DENNIS W., CA
[72] KOWALCHUK, TREVOR LAWRENCE, CA
[73] CNH INDUSTRIAL CANADA, LTD., CA
[86] (3068379)
[87] (3068379)
[22] 2020-01-16
[30] US (16/265,763) 2019-02-01

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[11] **3,068,927**
[13] C
[51] **Int.Cl. A61B 17/11 (2006.01) A61F 5/00 (2006.01)**
[25] EN
[54] **STOMACH LINING FUNNEL WITH ANASTOMOSIS**
[54] **ENTONNOIR DE DOUBLURE D'ESTOMAC AVEC ANASTOMOSE**
[72] ZHANG, JI, US
[72] ESKAROS, SHERIF A., US
[72] MOONEY, NATHAN K., US
[73] W. L. GORE & ASSOCIATES, INC., US
[85] 2020-01-03
[86] 2017-07-07 (PCT/US2017/041069)
[87] (WO2019/009918)

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[11] **3,069,854**
[13] C
[51] **Int.Cl. H04W 4/30 (2018.01) H04L 12/16 (2006.01)**
[25] EN
[54] **CONTEXTUAL NOTIFICATIONS FOR A NETWORK-BASED SERVICE**
[54] **NOTIFICATIONS CONTEXTUELLES POUR UN SERVICE RESEAU**
[72] WARR, ANDREW M., US
[72] DE ALMEIDA, GIOCONDA, US
[73] UBER TECHNOLOGIES, INC., US
[86] (3069854)
[87] (3069854)
[22] 2020-01-27
[30] US (16/276,303) 2019-02-14

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[11] **3,070,407**
[13] C
[51] **Int.Cl. B01J 20/28 (2006.01) B01D 15/02 (2006.01) B01J 20/289 (2006.01) B01J 20/32 (2006.01)**
[25] EN
[54] **METHOD OF CHEMICALLY MODIFYING PLASTIC SURFACES**
[54] **PROCEDE DE MODIFICATION CHIMIQUE DE SURFACES PLASTIQUES**
[72] DAMBACHER, COREY M., US
[73] PACIFIC BIOSCIENCES OF CALIFORNIA, INC., US
[85] 2020-01-17
[86] 2018-07-17 (PCT/US2018/042444)
[87] (WO2019/018366)
[30] US (62/533,830) 2017-07-18

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[11] **3,070,670**
[13] C
[51] **Int.Cl. G05B 23/00 (2006.01) F24F 11/30 (2018.01) F24F 11/46 (2018.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR AUTOMATIC DETECTION OF INEFFICIENT HOUSEHOLD THERMAL INSULATION**
[54] **PROCEDE ET SYSTEME DE DETECTION AUTOMATIQUE D'ISOLATION THERMIQUE DOMESTIQUE INEFFICACE**
[72] SAMUNI, ERAN, IL
[72] ZAK, ALEXANDER, IL
[72] RIMINI, NOA, IL
[73] GRID4C LTD., IL
[85] 2020-01-21
[86] 2018-07-24 (PCT/IL2018/050820)
[87] (WO2019/021280)
[30] US (62/536,064) 2017-07-24

[11] **3,070,929**
[13] C
[51] **Int.Cl. F16J 15/06 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **SWELLABLE METAL FOR NON-ELASTOMERIC O-RINGS, SEAL STACKS, AND GASKETS**
[54] **METAL GONFLABLE POUR JOINTS TORIQUES NON ELASTOMERES, EMPILEMENTS DE JOINTS ET JOINTS**
[72] FRIPP, MICHAEL L., US
[72] GRECI, STEPHEN M., US
[72] WALTON, ZACHARY W., US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-01-23
[86] 2017-11-13 (PCT/US2017/061307)
[87] (WO2019/094044)

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[11] **3,071,348**
[13] C
[51] **Int.Cl. G06Q 40/02 (2012.01) G06F 17/00 (2019.01) H04L 12/16 (2006.01)**
[25] EN
[54] **LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3071348)
[87] (3071348)
[22] 2015-05-29
[62] 2,987,687

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[11] **3,071,368**
[13] C
[51] **Int.Cl. G06Q 40/02 (2012.01) G06F 17/00 (2019.01) H04L 12/16 (2006.01)**
[25] EN
[54] **LENDING METHOD, AND DATA INTERACTION PROCESSING METHOD, DEVICE AND SYSTEM**
[54] **PROCEDE DE PRET, ET PROCEDE, DISPOSITIF ET SYSTEME DE TRAITEMENT D'INTERACTION DE DONNEES**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[86] (3071368)
[87] (3071368)
[22] 2015-05-29
[62] 2,987,687

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[11] **3,071,684**
[13] C
[51] **Int.Cl. C07J 71/00 (2006.01) A61K 31/7048 (2006.01) A61K 36/886 (2006.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01)**
[25] EN
[54] **USE OF STEROIDAL GLYCOSIDES, PHARMACEUTICAL FORMULATIONS, USE OF FURCRAEA FOETIDA PLANT EXTRACTS, PROCESS FOR PRODUCING FURCRAEA FOETIDA PLANT EXTRACTS AND METHOD FOR TREATING SKIN DISORDERS**
[54] **UTILISATION DE GLYCOSIDES STEROIDIENS, FORMULATIONS PHARMACEUTIQUES, UTILISATION D'EXTRAITS DE LA PLANTE FURCRAEA FOETIDA, PROCEDE D'OBTENTION D'EXTRAITS DE LA PLANTE FURCRAEA FOE TIDA ET METHODE DE TRAITEMENT D'AFFECTIONS CUTANEES**
[72] GOMES, LISIS ROJO, BR
[72] PIANOWSKI, LUIZ FRANCISCO, BR
[73] GOMES, LISIS ROJO, BR
[73] PIANOWSKI, LUIZ FRANCISCO, BR
[85] 2020-01-31
[86] 2018-06-01 (PCT/BR2018/050181)
[87] (WO2019/023769)
[30] BR (BR 10 2017 016550 7) 2017-08-01

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[11] **3,073,658**
[13] C
[51] **Int.Cl. H02J 1/00 (2006.01) H02M 3/28 (2006.01) H02M 7/48 (2007.01)**
[25] EN
[54] **CONTROL DEVICE OF THREE-TERMINAL STATIC DC CONVERTER**
[54] **DISPOSITIF DE COMMANDE POUR TRANSFORMATEUR CC STATIQUE A TROIS BORNES**
[72] KADO, YUICHI, JP
[72] IMAI, TAKASHI, JP
[73] IKS CO., LTD., JP
[85] 2020-02-21
[86] 2018-08-17 (PCT/JP2018/030561)
[87] (WO2019/039410)
[30] JP (2017-159304) 2017-08-22

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[11] **3,073,906**
[13] C
[51] **Int.Cl. H01M 4/136 (2010.01) H01M 10/0525 (2010.01) H01M 4/62 (2006.01)**
[25] EN
[54] **POSITIVE ELECTRODE MATERIAL FOR LITHIUM ION POLYMER BATTERY, POSITIVE ELECTRODE FOR LITHIUM ION POLYMER BATTERY, AND LITHIUM ION POLYMER BATTERY**
[54] **MATERIAU D`ELECTRODE POSITIVE POUR BATTERIE POLYMERE AU LITHIUM-ION, ELECTRODE POSITIVE POUR BATTERIE POLYMERE AU LITHIUM-ION ET BATTERIE POLYMERE AU LITHIUM-ION**
[72] OONO, KOUJI, JP
[73] SUMITOMO METAL MINING CO., LTD., JP
[86] (3073906)
[87] (3073906)
[22] 2020-02-27
[30] JP (2019-175384) 2019-09-26

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[11] **3,074,186**
[13] C
[51] **Int.Cl. A61B 1/00 (2006.01) G02B 23/24 (2006.01)**
[25] EN
[54] **ENDOSCOPE HOOD REMOVAL TOOL AND SET OF HOOD AND HOOD REMOVAL TOOL**
[54] **OUTIL DE RETRAIT DE CAPOT D'ENDOSCOPE ET ENSEMBLE D'OUTIL DE CAPOT ET DE RETRAIT DE CAPOT**
[72] SUGITA, NORIYUKI, JP
[73] HOYA CORPORATION, JP
[85] 2020-02-27
[86] 2018-11-02 (PCT/JP2018/040856)
[87] (WO2019/093240)
[30] JP (2017-218462) 2017-11-13

[11] **3,074,709**
[13] C
[51] **Int.Cl. H04W 12/069 (2021.01) H04L 9/30 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **MOBILE AUTHENTICATION INTEROPERABILITY FOR DIGITAL CERTIFICATES**
[54] **INTEROPERABILITE D'AUTHENTIFICATION MOBILE POUR CERTIFICATS NUMERIQUES**
[72] QUERALT, MICHAEL, US
[72] TOLBERT, JOHN W., US
[73] QUERALT, INC., US
[85] 2020-03-03
[86] 2018-10-05 (PCT/US2018/054670)
[87] (WO2019/103794)
[30] US (15/819,605) 2017-11-21

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[11] **3,074,848**
[13] C
[51] **Int.Cl. C09D 101/02 (2006.01) C08L 1/02 (2006.01) C09D 101/00 (2006.01)**
[25] EN
[54] **CONTINUOUS ROLL-TO-ROLL FABRICATION OF CELLULOSE NANOCRYSTAL (CNC) COATINGS**
[54] **FABRICATION CONTINUE DE REVETEMENTS DE NANOCRISTAUX DE CELLULOSE (CNC) PAR UN PROCEDE ROULEAU A ROULEAU**
[72] YOUNGBLOOD, JEFFREY PAUL, US
[72] CHOWDHURY, REAZ, US
[72] NURUDDIN, MD, US
[73] PURDUE RESEARCH FOUNDATION, US
[85] 2020-03-04
[86] 2018-09-04 (PCT/US2018/049312)
[87] (WO2019/050819)
[30] US (62/555,084) 2017-09-07

---

[11] **3,074,849**
[13] C
[51] **Int.Cl. C08F 2/00 (2006.01)**
[25] EN
[54] **COMBINED SEQUENTIAL PARALLEL REACTOR CONFIGURATION**
[54] **CONFIGURATION DE REACTEURS PARALLELES SEQUENTIELS COMBINES**
[72] DAS, SHITAL, FI
[72] ALASTALO, KAUNO, FI
[73] BOREALIS AG, AT
[85] 2020-03-04
[86] 2018-10-23 (PCT/EP2018/079043)
[87] (WO2019/086300)
[30] EP (17200142.2) 2017-11-06

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[11] **3,075,045**
[13] C
[51] **Int.Cl. A01F 25/20 (2006.01) A01F 25/18 (2006.01) B65D 88/28 (2006.01) B65D 88/64 (2006.01) B65G 65/46 (2006.01)**
[25] EN
[54] **GRAIN BIN POWERSWEEP WITH SUMP SHAFT APERATURE SEALING COVER PLATE ASSEMBLY**
[54] **BALAYAGE MECANIQUE DE CELLULE A GRAINS AVEC ENSEMBLE DE PLAQUES-COUVERCLES D`ETANCHEITE D`OUVERTURE DE CARTER DE L`ARBRE**
[72] WALKER, JEFFREY E., US
[72] GUTWEIN, ADAM K., US
[72] DINGELDEIN, MARK S., US
[73] CTB, INC., US
[86] (3075045)
[87] (3075045)
[22] 2020-03-10
[30] US (16/810,723) 2020-03-05
[30] US (62/818,323) 2019-03-14

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[11] **3,075,579**
[13] C
[51] **Int.Cl. G01C 21/32 (2006.01)**
[25] EN
[54] **GNSS-BASED MAP GENERATION**
[54] **GENERATION DE CARTE PAR LE GNSS**
[72] HUBER, JOHANNES, CH
[72] FURGER, FABIAN ISMAEL, CH
[73] SAFEMINE AG, CH
[86] (3075579)
[87] (3075579)
[22] 2020-03-13
[30] EP (19168545.2) 2019-04-10

---

[11] **3,075,803**
[13] C
[51] **Int.Cl. H04L 1/00 (2006.01)**
[25] EN
[54] **DATA PROCESSING METHOD, TERMINAL DEVICE AND NETWORK DEVICE**
[54] **PROCEDE DE TRAITEMENT DE DONNEES, DISPOSITIF TERMINAL ET DISPOSITIF DE RESEAU**
[72] CHEN, WENHONG, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-03-13
[86] 2017-09-13 (PCT/CN2017/101601)
[87] (WO2019/051679)

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[11] **3,075,843**
[13] C
[51] **Int.Cl. A47J 37/07 (2006.01)**
[25] EN
[54] **FOLDABLE GRILL DEVICE HAVING GAS-OPERATED HEATING DEVICE**
[54] **ENSEMBLE BARBECUE PLIABLE EQUIPE D'UN SYSTEME DE CHAUFFAGE FONCTIONNANT AU GAZ**
[72] BATTEL, CHRISTIAN, DE
[73] VENNSKAP GMBH & CO. KG, DE
[85] 2020-03-13
[86] 2019-04-23 (PCT/EP2019/060335)
[87] (WO2019/206887)
[30] DE (10 2018 109 739.5) 2018-04-23

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[11] **3,076,284**
[13] C
[51] **Int.Cl. G01S 17/88 (2006.01) A47K 5/12 (2006.01) G01S 17/02 (2020.01)**
[25] EN
[54] **A DISPENSER FOR DISPENSING A HYGIENE PRODUCT AND A METHOD OF OPERATING THE SAME**
[54] **DISTRIBUTEUR DE DISTRIBUTION DE PRODUIT D'HYGIENE ET SON PROCEDE DE FONCTIONNEMENT**
[72] ELFSTROM, BORIS ALLAN, US
[73] ESSITY HYGIENE AND HEALTH AKTIEBOLAG, SE
[85] 2020-03-18
[86] 2017-09-20 (PCT/EP2017/073757)
[87] (WO2019/057270)

[11] **3,076,375**
[13] C
[51] **Int.Cl. A61F 9/007 (2006.01)**
[25] EN
[54] **PARANASAL SINUS FLUID ACCESS IMPLANTATION TOOLS, ASSEMBLIES, KITS AND METHODS**
[54] **OUTILS, ENSEMBLES, KITS ET METHODES D'IMPLANTATION D'ACCES A UN FLUIDE DE SINUS PARANASAL**
[72] REO, MICHAEL LAWRENCE, US
[72] BOWER, STEPHEN NICHOLAS, US
[72] HULME, GARY B., US
[72] JENKINSON, RONAN L., US
[72] LANCE, JUSTIN AARON, US
[73] SINOPSYS SURGICAL, INC., US
[85] 2020-03-18
[86] 2018-09-20 (PCT/US2018/052038)
[87] (WO2019/060605)
[30] US (62/561,095) 2017-09-20

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[11] **3,077,242**
[13] C
[51] **Int.Cl. H04W 48/16 (2009.01)**
[25] EN
[54] **SIGNAL TRANSMISSION METHOD AND SYSTEM**
[54] **SYSTEME ET PROCEDE D'EMISSION DE SIGNAUX**
[72] LIU, KUN, CN
[72] DAI, BO, CN
[72] CHEN, XIANMING, CN
[72] YANG, WEIWEI, CN
[72] FANG, HUIYING, CN
[73] ZTE CORPORATION, CN
[85] 2020-03-27
[86] 2018-08-14 (PCT/CN2018/100324)
[87] (WO2019/062357)
[30] CN (201710910986.X) 2017-09-29

---

[11] **3,077,452**
[13] C
[51] **Int.Cl. A61M 37/00 (2006.01) A61K 9/00 (2006.01)**
[25] EN
[54] **TIP-LOADED MICRONEEDLE ARRAYS FOR TRANSDERMAL INSERTION**
[54] **RESEAUX DE MICRO-AIGUILLES A EXTREMITE CHARGEE POUR L'INSERTION TRANSDERMIQUE**
[72] FALO, LOUIS D., JR,, US
[72] ERDOS, GEZA, US
[72] OZDOGANLAR, O. BURAK, US
[73] UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US
[73] CARNEGIE MELLON UNIVERSITY, US
[86] (3077452)
[87] (3077452)
[22] 2013-05-01
[62] 2,871,770
[30] US (61/641,209) 2012-05-01

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[11] **3,077,815**
[13] C
[51] **Int.Cl. H04L 12/02 (2006.01) H04L 41/18 (2022.01)**
[25] EN
[54] **DEVICE ABSTRACTION PROXY**
[54] **SERVEUR MANDATAIRE POUR ABSTRACTION DE DISPOSITIF**
[72] GOLDBURG, MARC, US
[72] BEDNARZ, PHILIP, US
[73] ADAPTIVE SPECTRUM AND SIGNAL ALIGNMENT, INC., US
[86] (3077815)
[87] (3077815)
[22] 2010-11-02
[62] 2,779,631
[30] US (61/257,402) 2009-11-02

---

[11] **3,077,876**
[13] C
[51] **Int.Cl. G10L 19/08 (2013.01) G10L 19/032 (2013.01) G10L 19/02 (2013.01)**
[25] EN
[54] **AUDIO ENCODER AND DECODER**
[54] **CODEUR ET DECODEUR AUDIO**
[72] SAMUELSSON, LEIF JONAS, SE
[72] PURNHAGEN, HEIKO, SE
[73] DOLBY INTERNATIONAL AB, NL
[86] (3077876)
[87] (3077876)
[22] 2014-05-23
[62] 2,990,261
[30] US (61/827264) 2013-05-24

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[11] **3,078,041**
[13] C
[51] **Int.Cl. E05B 63/04 (2006.01)**
[25] EN
[54] **EXIT TRIM WITH SIMPLIFIED LEVER HANDING**
[54] **GARNITURE DE SORTIE A MANIEMENT DE POIGNEE SIMPLIFIE**
[72] LEHNER, JACK R., JR., US
[72] JANIK, JOSEPH, US
[73] SCHLAGE LOCK COMPANY LLC, US
[86] (3078041)
[87] (3078041)
[22] 2016-01-08
[62] 2,973,486
[30] US (14/593,570) 2015-01-09

---

[11] **3,078,334**
[13] C
[51] **Int.Cl. B65D 75/36 (2006.01)**
[25] EN
[54] **BLISTER PACKAGE FOR PHARMACEUTICAL CARTRIDGES**
[54] **EMBALLAGE COQUE POUR CARTOUCHES PHARMACEUTIQUES**
[72] BERGEY, MICHAEL S., US
[73] MANNKIND CORPORATION, US
[86] (3078334)
[87] (3078334)
[22] 2012-03-30
[62] 2,831,947
[30] US (61/470,982) 2011-04-01

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[11] **3,078,410**
[13] C
[51] **Int.Cl. H04W 48/00 (2009.01) H04W 72/00 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CONTROLLING RESTRICTED UE CAPABILITY, AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL DE CONTROLE DE CAPACITE D'UE RESTREINTE, ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] YANG, NING, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-04-03
[86] 2017-10-19 (PCT/CN2017/106859)
[87] (WO2019/075691)

[11] **3,079,338**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/02 (2006.01)**
[25] EN
[54] **MULTI-SENSOR INTERACTIVE PATIENT-CARE POD**
[54] **NACELLE INTERACTIVE DE SOINS POUR PATIENT A CAPTEURS MULTIPLES**
[72] NAUDE, EDDIE, CA
[73] NAUDE, EDDIE, CA
[86] (3079338)
[87] (3079338)
[22] 2020-04-23
[30] US (16691020) 2019-11-21

[11] **3,079,439**
[13] C
[51] **Int.Cl. C12N 5/0775 (2010.01)**
[25] EN
[54] **METHODS FOR DIFFERENTIATING MESENCHYMAL STEM CELLS**
[54] **PROCEDES POUR DIFFERENCIER DES CELLULES SOUCHES MESENCHYMATEUSES**
[72] PIETRI, SANDRA, BE
[72] NGUYEN, XUAN MAI, BE
[72] BASTIANELLI, ENRICO, BE
[72] ENA, SABRINA, BE
[72] LARUELLE, PIERRE-YVES, BE
[72] TYTGAT, ISABELLE, BE
[73] BONE THERAPEUTICS SA, BE
[85] 2020-04-17
[86] 2018-09-25 (PCT/EP2018/076030)
[87] (WO2019/076591)
[30] EP (17197605.3) 2017-10-20

[11] **3,080,658**
[13] C
[51] **Int.Cl. F28C 1/14 (2006.01) F28C 1/04 (2006.01) F28D 5/02 (2006.01)**
[25] EN
[54] **AUTOMATED CONTROL OF HEAT EXCHANGER OPERATION**
[54] **COMMANDE AUTOMATISEE DE FONCTIONNEMENT D'ECHANGEUR DE CHALEUR**
[72] BLAY, PRESTON, US
[72] SINGH, RAVINDRA, US
[72] MORRISON, FRANK T., US
[72] BEAVER, ANDREW, US
[72] AARON, DAVID ANDREW, US
[73] BALTIMORE AIRCOIL COMPANY, INC., US
[85] 2020-04-27
[86] 2018-11-14 (PCT/US2018/061038)
[87] (WO2019/099510)
[30] US (15/814,032) 2017-11-15

[11] **3,080,867**
[13] C
[51] **Int.Cl. H04W 72/04 (2009.01) H04L 27/06 (2006.01)**
[25] EN
[54] **INFORMATION TRANSMISSION METHOD AND DEVICE**
[54] **PROCEDE ET DISPOSITIF DE TRANSMISSION D'INFORMATIONS**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-04-29
[86] 2017-11-01 (PCT/CN2017/108916)
[87] (WO2019/084841)

[11] **3,081,568**
[13] C
[51] **Int.Cl. C08L 61/10 (2006.01) C08L 1/02 (2006.01) C08L 1/26 (2006.01)**
[25] EN
[54] **MICROFIBRILLATED CELLULOSE-CONTAINING COMPOSITION, PREPREG, MOLDING, AND METHOD FOR PRODUCING PREPREG**
[54] **COMPOSITION CONTENANT DE LA CELLULOSE MICROFIBRILLEE ET PROCEDE DE FABRICATION D'UN PREIMPREGNE**
[72] OKUMURA, HIROSHI, JP
[72] NISHIHARA, HIROKI, JP
[73] RISHO KOGYO CO., LTD., JP
[85] 2020-05-01
[86] 2017-11-14 (PCT/JP2017/040980)
[87] (WO2019/097586)

[11] **3,081,788**
[13] C
[51] **Int.Cl. C11D 3/04 (2006.01) C11D 3/22 (2006.01) C11D 7/06 (2006.01) C11D 7/26 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **SOLID CONTROLLED RELEASE CAUSTIC DETERGENT COMPOSITIONS**
[54] **COMPOSITIONS DETERGENTES CAUSTIQUES A LIBERATION CONTROLEE DE MATIERES SOLIDES**
[72] GELDERMAN, MAX, US
[72] MANSERGH, JOHN, US
[72] ROERDINK LANDER, MONIQUE, US
[72] PELTIER, CAITLYN, US
[73] ECOLAB USA INC., US
[85] 2020-05-05
[86] 2018-04-27 (PCT/US2018/029754)
[87] (WO2019/099059)
[30] US (62/585,825) 2017-11-14

[11] **3,083,048**
[13] C
[51] **Int.Cl. B23D 21/14 (2006.01) B26D 3/16 (2006.01)**
[25] EN
[54] **PIPE CUTTING MACHINE WITH A CONTROLLED FLOATING CUTTING MANDREL, AND CUTTING METHOD**
[54] **MACHINE A COUPER DES TUBES COMPRENANT UNE TIGE DE COUPE COMMANDEE, FLOTTANTE, AINSI QUE PROCEDE DE COUPE**
[72] RATTUNDE, ULRICH, DE
[73] RATTUNDE AG, DE
[85] 2020-05-20
[86] 2018-11-16 (PCT/EP2018/081508)
[87] (WO2019/096969)
[30] DE (10 2017 127 326.3) 2017-11-20

[11] **3,083,433**
[13] C
[51] **Int.Cl. C07C 307/06 (2006.01) C07D 277/28 (2006.01)**
[25] EN
[54] **METHODS AND INTERMEDIATES FOR PREPARING PHARMACEUTICAL AGENTS**
[54] **PROCEDES ET INTERMEDIAIRES DESTINES A LA PREPARATION DE MEDICAMENTS PHARMACEUTIQUES**
[72] POLNIASZEK, RICHARD, US
[72] PFEIFFER, STEVEN, US
[72] YU, RICHARD, US
[72] CULLEN, AARON, US
[72] DOWDY, ERIC, US
[72] TRAN, DUONG, US
[72] KENT, KENNETH, US
[72] ZHOU, ZHONGXIN, US
[72] CORDEAU, DOUG, US
[72] EASTON, LEAH, US
[73] GILEAD SCIENCES, INC., US
[86] (3083433)
[87] (3083433)
[22] 2010-04-01
[62] 3,008,903
[30] US (61/166,498) 2009-04-03

[11] **3,083,492**
[13] C
[51] **Int.Cl. A61F 2/46 (2006.01) A61B 5/00 (2006.01) A61F 2/40 (2006.01)**
[25] EN
[54] **SENSOR-BASED SHOULDER SYSTEM AND METHOD**
[54] **PROCEDE ET SYSTEME A BASE DE CAPTEUR POUR EPAULE**
[72] NOLAN, DAVID A., US
[72] BRITTON, ORSA, US
[72] VAN KAMPEN, WILLIAM, US
[73] ZIMMER, INC., US
[86] (3083492)
[87] (3083492)
[22] 2016-07-07
[62] 2,991,495
[30] US (62/190,054) 2015-07-08

[11] **3,083,687**
[13] C
[51] **Int.Cl. G06F 21/60 (2013.01) G06F 21/31 (2013.01) H04L 9/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING ACCESS TO CONTENT DISTRIBUTED OVER A NETWORK**
[54] **SYSTEMES ET PROCEDES DE CONTROLE D'ACCES A UN CONTENU DISTRIBUE SUR UN RESEAU**
[72] JOYCE, RAYMOND G., US
[72] GARRET, DAMON, US
[72] HUNSTBERRY, FREDERICK, US
[72] TUNILA, RANDY, US
[73] PARAMOUNT PICTURES CORPORATION, US
[86] (3083687)
[87] (3083687)
[22] 2012-10-10
[62] 2,850,972
[30] US (13/270,914) 2011-10-11
[30] US (13/359,981) 2012-01-27

[11] **3,083,813**
[13] C
[51] **Int.Cl. B32B 21/02 (2006.01) B32B 3/06 (2006.01) B32B 3/30 (2006.01) B32B 21/06 (2006.01) B32B 29/00 (2006.01) B32B 37/10 (2006.01) B32B 38/06 (2006.01) B44C 1/24 (2006.01)**
[25] EN
[54] **LAMINATE WITH SYNCHRONOUS STRUCTURE**
[54] **STRATIFIE A STRUCTURE SYNCHRONE**
[72] DOEHRING, RAINER, CH
[72] PIOTROWSKI, DAWID, CH
[73] XYLO TECHNOLOGIES AG, CH
[85] 2020-05-28
[86] 2017-12-29 (PCT/EP2017/084805)
[87] (WO2019/129356)

[11] **3,084,026**
[13] C
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/00 (2006.01)**
[25] EN
[54] **KNEE ORTHOSIS WITH HELICOIDAL AXIS AND METHOD OF DESIGN AND FABRICATION THEREOF**
[54] **ORTHESE DE GENOU A AXE HELICOIDAL ET SON PROCEDE DE CONCEPTION ET DE FABRICATION**
[72] LABELLE, MAXIME, CA
[72] HINSE, SEBASTIEN, CA
[72] BLEAU, JACINTE, CA
[73] 2330-2029 QUEBEC INC., CA
[85] 2020-05-29
[86] 2018-12-04 (PCT/CA2018/051550)
[87] (WO2019/109178)

[11] **3,084,615**
[13] C
[51] **Int.Cl. H04W 72/14 (2009.01)**
[25] EN
[54] **DATA TRANSMISSION METHOD AND TERMINAL DEVICE**
[54] **PROCEDE DE TRANSMISSION DE DONNEES ET DISPOSITIF TERMINAL**
[72] LIN, YANAN, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-05-27
[86] 2017-12-06 (PCT/CN2017/114875)
[87] (WO2019/109280)

[11] **3,084,962**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **OXY-FLUOROPIPERIDINE DERIVATIVES AS KINASE INHIBITOR**
[54] **DERIVES D'OXY-FLUOROPIPERIDINE UTILISES EN TANT QU'INHIBITEUR DE KINASE**
[72] KIM, IN WOO, KR
[72] JUN, SUN AH, KR
[72] KIM, NAM YOUN, KR
[72] LEE, JUN HEE, KR
[73] DAEWOONG PHARMACEUTICAL CO., LTD., KR
[85] 2020-06-05
[86] 2018-12-28 (PCT/KR2018/016814)
[87] (WO2019/132562)
[30] KR (10-2017-0183061) 2017-12-28

[11] **3,085,446**
[13] C
[51] **Int.Cl. C07K 16/00 (2006.01) C07K 1/107 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **PROTEIN IN WHICH ELECTROSTATIC INTERACTION IS INTRODUCED WITHIN HYDROPHOBIC INTERACTION SITE AND PREPARATION METHOD THEREOF**
[54] **PROTEINE DANS LAQUELLE UNE INTERACTION ELECTROSTATIQUE EST INTRODUITE SUR UN SITE D'INTERACTION HYDROPHOBE ET METHODE DE PREPARATION ASSOCIEE**
[72] KIM, HOEON, KR
[73] IBENTRUS, INC., KR
[86] (3085446)
[87] (3085446)
[22] 2014-03-13
[62] 2,918,328
[30] US (61/780,390) 2013-03-14

[11] **3,085,917**
[13] C
[51] **Int.Cl. E21B 33/128 (2006.01)**
[25] EN
[54] **FRAC PLUG HIGH EXPANSION ELEMENT RETAINER**
[54] **DISPOSITIF DE RETENUE D`ELEMENT A EXPANSION ELEVEE POUR UN BOUCHON DE FRACTURATION**
[72] MILNE, ADAM JACOB, US
[72] MILLER, AARON JACOB, US
[72] OLSON, ZACHARY RYAN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[86] (3085917)
[87] (3085917)
[22] 2020-06-08
[30] US (16/848,611) 2020-04-14

[11] **3,086,738**
[13] C
[51] **Int.Cl. H04L 1/00 (2006.01) H04W 72/10 (2009.01)**
[25] EN
[54] **TRANSMISSION DIRECTION DETERMINING METHOD AND APPARATUS, TRANSMISSION CHANNEL DETERMINING METHOD AND APPARATUS, AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF PERMETTANT DE DETERMINER UNE DIRECTION DE TRANSMISSION ET UNE VOIE DE TRANSMISSION, ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] TANG, HAI, CN
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2020-06-23
[86] 2018-07-27 (PCT/CN2018/097466)
[87] (WO2019/128213)
[30] CN (PCT/CN2017/118450) 2017-12-26

[11] **3,086,933**
[13] C
[51] **Int.Cl. C22C 21/06 (2006.01) C22C 21/08 (2006.01)**
[25] EN
[54] **USE OF ALLOY CONTAINING ALUMINIUM FOR ADDITIVE MANUFACTURING**
[54] **UTILISATION D'UN ALLIAGE CONTENANT DE L'ALUMINIUM POUR LA FABRICATION D'ADDITIFS**
[72] FEHRMANN, HENNING, DE
[73] FEHRMANN ALLOYS GMBH & CO. KG, DE
[85] 2020-06-25
[86] 2018-12-21 (PCT/EP2018/086647)
[87] (WO2019/129723)
[30] EP (17210900.1) 2017-12-28

[11] **3,086,970**
[13] C
[51] **Int.Cl. B23K 26/06 (2014.01) B23K 26/242 (2014.01) B23K 26/322 (2014.01) B23K 26/32 (2014.01)**
[25] EN
[54] **METHOD FOR BUTT LASER WELDING TWO METAL SHEETS WITH FIRST AND SECOND FRONT LASER BEAMS AND A BACK LASER BEAM**
[54] **PROCEDE DE SOUDAGE LASER BOUT A BOUT DE DEUX FEUILLES METALLIQUES AU MOYEN DE PREMIER ET SECOND FAISCEAUX LASER AVANT ET D'UN FAISCEAU LASER ARRIERE**
[72] VIERSTRAETE, RENE, FR
[73] ARCELORMITTAL, LU
[85] 2020-06-25
[86] 2018-12-19 (PCT/IB2018/060367)
[87] (WO2019/130169)
[30] IB (PCT/IB2017/058402) 2017-12-26

[11] **3,087,024**
[13] C
[51] **Int.Cl. A47C 27/06 (2006.01) A47C 27/05 (2006.01)**
[25] EN
[54] **POCKETED SPRING ASSEMBLY**
[54] **ENSEMBLE RESSORT A POCHES**
[72] JEWETT, JASON, US
[72] RICHMOND, DARRELL A., US
[73] L&P PROPERTY MANAGEMENT COMPANY, US
[86] (3087024)
[87] (3087024)
[22] 2017-08-11
[62] 3,032,015
[30] US (62/377,074) 2016-08-19
[30] US (15/447,717) 2017-03-02

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[11] **3,087,390**
[13] C
[51] **Int.Cl. B64D 27/02 (2006.01) B64C 7/02 (2006.01) B64C 27/28 (2006.01) B64D 29/02 (2006.01)**
[25] EN
[54] **TILTROTOR AIRCRAFT ROTATING PROPROTOR ASSEMBLY**
[54] **ASSEMBLAGE DE ROTOR ORIENTABLE FAISANT TOURNER UN AERONEF A ROTOR BASCULANT**
[72] ROSS, BRENT C., US
[72] RINEHART, MICHAEL E., US
[72] WILLIAMS, JEFFREY M., US
[72] SMITH, CLEGG, US
[72] PRAVANH, NICK, US
[73] TEXTRON INNOVATIONS INC., US
[86] (3087390)
[87] (3087390)
[22] 2017-11-23
[62] 2,986,741
[30] US (15/448,136) 2017-03-02
[30] US (15/448,415) 2017-03-02
[30] US (15/661,129) 2017-07-27

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[11] **3,087,556**
[13] C
[51] **Int.Cl. C23C 4/10 (2016.01) C23C 4/126 (2016.01) B28B 19/00 (2006.01) C04B 41/87 (2006.01) C23C 24/08 (2006.01)**
[25] EN
[54] **THERMAL SPRAYING OF CERAMIC MATERIALS**
[54] **PROJECTION A CHAUD DE MATERIAUX CERAMIQUES**
[72] ESPALLARGAS, NURIA, NO
[72] MUBAROK, FAHMI, NO
[73] SERAM COATINGS AS, NO
[86] (3087556)
[87] (3087556)
[22] 2013-11-01
[62] 2,889,623
[30] GB (1219642.4) 2012-11-01

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[11] **3,088,018**
[13] C
[51] **Int.Cl. C01B 3/32 (2006.01) C01B 3/34 (2006.01) F22D 1/00 (2006.01)**
[25] EN
[54] **SEGREGATED STEAM SYSTEM AND PROCESS IN A HYDROGEN PRODUCTION FACILITY**
[54] **SYSTEME ET PROCEDE DE VAPEUR SEPARE DANS UNE INSTALLATION DE PRODUCTION D`HYDROGENE**
[72] PENG, XIANG-DONG, US
[73] AIR PRODUCTS AND CHEMICALS, INC., US
[86] (3088018)
[87] (3088018)
[22] 2020-07-27
[30] US (16/529,854) 2019-08-02

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[11] **3,088,616**
[13] C
[51] **Int.Cl. A61M 16/16 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **RESPIRATORY HUMIDIFICATION DEVICE**
[54] **DISPOSITIF D'HUMIDIFICATION RESPIRATOIRE**
[72] MAY, JR., FREDERICK A., AU
[73] GLOBALMED, INC., CA
[85] 2020-07-15
[86] 2019-03-26 (PCT/IB2019/052441)
[87] (WO2019/186392)
[30] US (62/648,812) 2018-03-27
[30] US (16/362,686) 2019-03-24

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[11] **3,088,808**
[13] C
[51] **Int.Cl. A23K 10/00 (2016.01) A23K 20/00 (2016.01) A23K 40/00 (2016.01) A23K 40/25 (2016.01) A23N 17/00 (2006.01) C12Q 1/00 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **HUMAN DIET EQUIVALENT ANIMAL FEED**
[54] **ALIMENT POUR ANIMAUX EQUIVALENT A UN REGIME ALIMENTAIRE POUR HUMAIN**
[72] GORDON, JEFFREY, US
[72] HAYASHI, DAVID, US
[72] LYLE, BARBARA, US
[72] MARTINI, PEGGY, US
[73] WASHINGTON UNIVERSITY, US
[73] INTERCONTINENTAL GREAT BRANDS LLC, US
[86] (3088808)
[87] (3088808)
[22] 2014-07-01
[62] 2,916,639
[30] US (61/841,786) 2013-07-01
[30] US (61/869,047) 2013-08-22

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[11] **3,088,848**
[13] C
[51] **Int.Cl. G07D 11/00 (2019.01)**
[25] EN
[54] **AUTOMATIC BANKNOTE HANDLING SYSTEM**
[54] **SYSTEME AUTOMATIQUE DE MANIPULATION DE BILLETS DE BANQUE**
[72] UEMIZO, YOSHIAKI, JP
[72] UEDA, TAKASHI, JP
[73] JAPAN CASH MACHINE CO., LTD., JP
[85] 2020-07-03
[86] 2019-04-16 (PCT/JP2019/016240)
[87] (WO2019/225223)
[30] JP (2018-097802) 2018-05-22

[11] **3,089,097**
[13] C
[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/9038 (2019.01)**
[25] EN
[54] **DOMAIN-BASED SEARCH ENGINE**
[54] **MOTEUR DE RECHERCHE PAR DOMAINES**
[72] TAYCHER, LEONID, US
[72] COHEN, BENJAMIN, US
[72] GRUEVSKI, PREDRAG, US
[72] SHULMAN, MICHAEL, US
[73] KENSHO TECHNOLOGIES, LLC, US
[85] 2020-07-20
[86] 2018-03-20 (PCT/US2018/023371)
[87] (WO2019/164537)
[30] US (62/633,389) 2018-02-21
[30] US (15/922,155) 2018-03-15

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[11] **3,089,687**
[13] C
[51] **Int.Cl. F02C 9/28 (2006.01) F02C 9/34 (2006.01) F02C 9/50 (2006.01)**
[25] EN
[54] **CONTROLLER AND METHOD**
[54] **DISPOSITIF DE COMMANDE ET PROCEDE ASSOCIE**
[72] PANOV, VILI, GB
[73] SIEMENS AKTIENGESELLSCHAFT, DE
[85] 2020-07-27
[86] 2019-02-13 (PCT/EP2019/053575)
[87] (WO2019/162167)
[30] EP (18158436.8) 2018-02-23

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[11] **3,089,815**
[13] C
[51] **Int.Cl. F16L 23/18 (2006.01) F16J 15/02 (2006.01) F16L 23/04 (2006.01)**
[25] EN
[54] **SEAL WITH LIP PROJECTIONS**
[54] **JOINT D'ETANCHEITE AVEC SAILLIES DE LEVRE**
[72] BANCROFT, PHILIP WAYNE, US
[72] BOWMAN, MATTHEW A., US
[72] YOVANOVICH, KATHRYN E., US
[73] VICTAULIC COMPANY, US
[86] (3089815)
[87] (3089815)
[22] 2016-09-14
[62] 3,007,494
[30] US (14/963,361) 2015-12-09

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[11] **3,091,288**
[13] C
[51] **Int.Cl. E21B 31/107 (2006.01) E21B 33/12 (2006.01)**
[25] EN
[54] **DISLODGING TOOLS, SYSTEMS AND METHODS FOR USE WITH A SUBTERRANEAN WELL**
[54] **OUTILS DE DELOGEMENT, SYSTEMES ET PROCEDES DESTINES A ETRE UTILISES AVEC UN PUITS SOUTERRAIN**
[72] WATSON, BROCK W., US
[72] SCHULTZ, ROGER L., US
[72] KLIEWER, GREGORY A., US
[73] THRU TUBING SOLUTIONS, INC., US
[85] 2020-08-14
[86] 2018-12-26 (PCT/US2018/067571)
[87] (WO2019/168588)
[30] US (62/638,059) 2018-03-02

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[11] **3,092,967**
[13] C
[51] **Int.Cl. B01D 24/46 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR MOVING, REMOVING AND/OR INSTALLING ONE OR MORE COMPONENTS OF A TREATMENT UNIT**
[54] **DISPOSITIFS ET METHODES POUR DEPLACER, RETIRER ET/OU INSTALLER UN OU PLUSIEURS COMPOSANTS D`UNE UNITE DE TRAITEMENT**
[72] ROBERTS, R. LEE, US
[72] ROBERTS, MATTHEW, US
[73] ROBERTS MARKETING DE, INC., US
[86] (3092967)
[87] (3092967)
[22] 2018-10-15
[62] 3,020,750
[30] US (16/156,415) 2018-10-10

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[11] **3,093,284**
[13] C
[51] **Int.Cl. A61F 2/78 (2006.01) A61F 2/70 (2006.01) A61F 2/76 (2006.01) A61F 2/80 (2006.01) A61F 5/01 (2006.01)**
[25] EN
[54] **ADAPTABLE SOCKET SYSTEM, METHOD, AND KIT**
[54] **SYSTEME DE SUPPORT ADAPTABLE, PROCEDE ET KIT**
[72] ALLEY, RANDALL, US
[73] ALLEY, RANDALL, US
[86] (3093284)
[87] (3093284)
[22] 2013-10-28
[62] 2,889,617
[30] US (61/720,934) 2012-10-31
[30] US (61/732,493) 2012-12-03
[30] US (13/797,957) 2013-03-12

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[11] **3,093,584**
[13] C
[51] **Int.Cl. C09K 8/60 (2006.01) E21B 41/00 (2006.01) E21B 43/20 (2006.01) E21B 49/00 (2006.01)**
[25] EN
[54] **SELECTION OF OPTIMAL SURFACTANT BLENDS FOR WATERFLOOD ENHANCEMENT**
[54] **SELECTION DE MELANGES DE TENSIOACTIFS OPTIMAUX POUR AMELIORER L'INJECTION D'EAU**
[72] QUINTERO, LIRIO, US
[72] NGUYEN, HENRY, US
[72] KUZNETSOV, OLEKSANDR V., US
[73] BAKER HUGHES HOLDINGS LLC, US
[85] 2020-09-09
[86] 2019-03-18 (PCT/US2019/022786)
[87] (WO2019/182990)
[30] US (62/644,807) 2018-03-19

[11] **3,095,378**
[13] C
[51] **Int.Cl. A01B 73/02 (2006.01) A01C 5/06 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **SEED DELIVERY APPARATUS, SYSTEMS, AND METHODS**
[54] **APPAREIL, SYSTEMES ET PROCEDES DE DISTRIBUTION DE GRAINES**
[72] RADTKE, IAN R., US
[72] HODEL, JEREMY, US
[73] PRECISION PLANTING LLC, US
[86] (3095378)
[87] (3095378)
[22] 2012-09-26
[62] 2,850,160
[30] US (61/539,786) 2011-09-27

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[11] **3,097,337**
[13] C
[51] **Int.Cl. F04B 49/00 (2006.01) F04B 23/04 (2006.01) F04B 49/03 (2006.01) F04B 49/06 (2006.01)**
[25] EN
[54] **USING A LOAD SENSE PUMP AS A BACKUP FOR A PRESSURE-COMPENSATED PUMP**
[54] **UTILISATION D'UNE POMPE DE DETECTION DE CHARGE EN TANT QUE SECOURS POUR UNE POMPE A COMPENSATION DE PRESSION**
[72] WILLIAMS, DREW DUSTIN, US
[72] FISHER, CHAD ADAM, US
[72] WARREN, WESLEY JOHN, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2020-10-15
[86] 2018-07-11 (PCT/US2018/041585)
[87] (WO2020/013816)

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[11] **3,099,203**
[13] C
[51] **Int.Cl. B60G 7/00 (2006.01)**
[25] EN
[54] **AUXILIARY AXLE AND SUSPENSION ASSEMBLY**
[54] **ENSEMBLE D'ESSIEU ET DE SUSPENSION AUXILIAIRE**
[72] CONAWAY, RICHARD L., US
[72] DYKSTRA, DANIEL R., US
[72] JOHNSON, MARC R., US
[72] THOLE, DOUGLAS M., US
[72] FREEMAN, BOYD J., US
[73] SAF-HOLLAND, INC., US
[86] (3099203)
[87] (3099203)
[22] 2014-01-21
[62] 2,898,855
[30] US (61/757,471) 2013-01-28
[30] US (14/132,758) 2013-12-18

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[11] **3,100,267**
[13] C
[51] **Int.Cl. B60G 3/20 (2006.01) B60G 21/055 (2006.01)**
[25] EN
[54] **SIDE-BY-SIDE VEHICLE**
[54] **VEHICULE COTE A COTE**
[72] DECKARD, AARON D., US
[72] SCHLANGEN, ADAM J., US
[72] LUTZ, DENNIS J., US
[72] SCHEUERELL, ALEX R., US
[72] NYSSE, AARON J., US
[72] RIPLEY, ANTHONY J., US
[72] PETERSON, SHAWN D., US
[72] GOFFMAN, DANIEL L., US
[72] IVES, ANDY T., US
[72] FREDRICKSON, DONOVAN L., US
[72] STEINMETZ, GORDON J., US
[72] HOLLMAN, KEITH A., US
[72] ROYTEK, CORRIE S., US
[72] KOMAREK, ANTHONY J., US
[73] POLARIS INDUSTRIES INC., US
[86] (3100267)
[87] (3100267)
[22] 2014-09-04
[62] 2,922,923
[30] US (61/873,726) 2013-09-04

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[11] **3,103,705**
[13] C
[51] **Int.Cl. E04G 21/32 (2006.01) E04G 3/24 (2006.01) E04G 3/34 (2006.01) E04G 5/00 (2006.01) E04G 7/00 (2006.01) E04G 17/14 (2006.01)**
[25] EN
[54] **TRANSFORMER-INTEGRATED GUARDRAIL APPARATUS AND KIT**
[54] **APPAREIL ET KIT DE GARDE-CORPS INTEGRES SUR TRANSFORMATEURS**
[72] O'SHEA, ALAN MICHAEL, US
[73] CV INTERNATIONAL, INC., US
[85] 2020-12-11
[86] 2019-06-24 (PCT/US2019/038710)
[87] (WO2019/246616)
[30] US (16/016,067) 2018-06-22

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[11] **3,104,243**
[13] C
[51] **Int.Cl. G06T 13/40 (2011.01) A63F 13/00 (2014.01)**
[25] EN
[54] **REAL-TIME ANIMATION GENERATION USING MACHINE LEARNING**
[54] **PROCEDE ET SYSTEME DE GENERATION D'ANIMATION EN TEMPS REEL METTANT EN OEUVRE L'APPRENTISSAGE AUTOMATIQUE**
[72] BUTTNER, MICHAEL, CA
[73] UNITY IPR APS, DK
[85] 2020-12-17
[86] 2019-06-18 (PCT/IB2019/000809)
[87] (WO2019/243899)
[30] US (62/686,546) 2018-06-18

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[11] **3,109,015**
[13] C
[51] **Int.Cl. A01C 7/12 (2006.01)**
[25] EN
[54] **SEED DELIVERY APPARATUS, SYSTEMS, AND METHODS**
[54] **APPAREIL, SYSTEMES ET PROCEDES DE DISTRIBUTION DE SEMENCES**
[72] RADTKE, IAN, US
[73] PRECISION PLANTING LLC, US
[86] (3109015)
[87] (3109015)
[22] 2014-08-29
[62] 2,921,666
[30] US (61/872,319) 2013-08-30
[30] US (61/923,449) 2014-01-03

[11] **3,109,247**
[13] C
[51] **Int.Cl. G06K 19/06 (2006.01)**
[25] EN
[54] **UNIVERSAL PASSIVE PROVISIONING UNIT AND METHOD FOR SECURE ELEMENT**
[54] **UNITE ET PROCEDE DE FOURNITURE PASSIVE UNIVERSELLE D'ELEMENT SECURISE**
[72] LEUNG, KA WAI WAYNE, CN
[73] LEUNG, KA WAI WAYNE, CN
[85] 2021-02-09
[86] 2018-05-01 (PCT/IB2018/053003)
[87] (WO2019/155270)
[30] IB (PCT/IB2018/050802) 2018-02-09
[30] IB (PCT/IB2018/050803) 2018-02-09

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[11] **3,112,061**
[13] C
[51] **Int.Cl. C12N 5/02 (2006.01) C12N 5/071 (2010.01)**
[25] EN
[54] **CELL CULTURE MEDIA**
[54] **MILIEU DE CULTURE CELLULAIRE**
[72] BREUNING, MARCEL ANDRE, DE
[72] JASPER, CHRISTIAN, DE
[72] VON HAGEN, JOERG, DE
[73] MERCK PATENT GMBH, DE
[86] (3112061)
[87] (3112061)
[22] 2013-11-14
[62] 2,891,279
[30] EP (12007711.0) 2012-11-14

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[11] **3,115,197**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/024 (2006.01) A61B 5/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR QUANTIFICATION OF, AND PREDICTION OF SMOKING BEHAVIOR**
[54] **SYSTEMES ET PROCEDES DE QUANTIFICATION ET DE PREDICTION D'UN COMPORTEMENT TABAGIQUE**
[72] UTLEY, DAVID S., US
[72] JAMESON, ALLEN, US
[72] MARLER, JENNIFER, US
[73] CILAG GMBH INTERNATIONAL, CH
[85] 2021-04-01
[86] 2018-10-09 (PCT/US2018/055038)
[87] (WO2019/074942)
[30] US (15/729,529) 2017-10-10

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[11] **3,119,897**
[13] C
[51] **Int.Cl. G06F 21/31 (2013.01) G06Q 40/02 (2012.01) G06F 21/62 (2013.01)**
[25] EN
[54] **SECURE PERMISSIONING OF ACCESS TO USER ACCOUNTS, INCLUDING SECURE DEAUTHORIZATION OF ACCESS TO USER ACCOUNTS**
[54] **AUTORISATION SECURISEE D'UN ACCES A DES COMPTES D'UTILISATEUR, COMPRENANT LA SUPPRESSION D'AUTORISATION SECURISEE D'UN ACCES A DES COMPTES D'UTILISATEUR**
[72] HOCKEY, WILLIAM, US
[72] KELLY, MICHAEL, US
[73] PLAID INC., US
[86] (3119897)
[87] (3119897)
[22] 2016-09-07
[62] 2,997,115
[30] US (62/215,603) 2015-09-08
[30] US (62/267,508) 2015-12-15
[30] US (15/258,262) 2016-09-07
[30] US (15/258,256) 2016-09-07

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[11] **3,128,120**
[13] C
[51] **Int.Cl. G06F 30/00 (2020.01) G06Q 50/04 (2012.01) G06V 10/70 (2022.01)**
[25] EN
[54] **PROACTIVE CREATION OF IMAGE-BASED PRODUCTS**
[54] **CREATION PROACTIVE DE PRODUITS A BASE D'IMAGE**
[72] EUGENE, CHEN, US
[72] PREETI, NATHAN, US
[72] TRYNNE, ANNE MILLER, US
[72] WANG, WILEY H., US
[72] LITVAK, SHAY, US
[72] SANTINI, MARCO, US
[72] DENEND, CHRIS M., US
[72] LEVIN, MARK, US
[72] IMESHEV, VYACHESLAV, US
[73] SHUTTERFLY, INC., US
[86] (3128120)
[87] (3128120)
[22] 2016-12-15
[62] 3,008,012
[30] US (14/990,402) 2016-01-07
[30] US (15/375,682) 2016-12-12

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[11] **3,135,946**
[13] C
[51] **Int.Cl. A61K 31/225 (2006.01) A61K 9/28 (2006.01)**
[25] EN
[54] **ENTERIC TABLET CONTAINING DIMETHYL FUMARATE**
[54] **COMPRIME GASTRORESISTANT CONTENANT DU FUMARATE DE DIMETHYLE**
[72] KIM, MYUNG-HWA, KR
[72] PYO, JUNG-IN, KR
[72] MO, JONG HYON, KR
[72] LEE, CHEOL WOO, KR
[72] JI, HYUN-KU, KR
[73] CURACLE CO., LTD., KR
[85] 2021-10-01
[86] 2020-05-21 (PCT/KR2020/006647)
[87] (WO2020/242132)
[30] KR (10-2019-0064576) 2019-05-31

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[11] **3,137,172**
[13] C
[51] **Int.Cl. A61F 9/02 (2006.01)**
[25] EN
[54] **GOGGLES**
[54] **LUNETTES DE PROTECTION**
[72] HIGASHIDE, KOSUKE, JP
[73] SPORTS-NET CO., LTD., JP
[85] 2021-10-15
[86] 2019-05-07 (PCT/JP2019/018285)
[87] (WO2020/213176)
[30] JP (2019-079679) 2019-04-18

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[11] **3,139,764**
[13] C
[51] **Int.Cl. F04C 2/16 (2006.01)**
[25] EN
[54] **COOLED DRY VACUUM SCREW PUMP**
[54] **POMPE A VIS A VIDE SECHE REFROIDIE**
[72] AKHTAR, KHURRAM, CA
[72] WHITE, CHRISTOPHER, CA
[73] FRUVAC LTD., CA
[85] 2021-11-26
[86] 2019-08-02 (PCT/CA2019/051066)
[87] (WO2021/022352)

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[11] **3,140,284**
[13] C
[51] **Int.Cl. A42B 3/22 (2006.01) A42B 3/08 (2006.01) A42B 3/20 (2006.01)**
[25] EN
[54] **PROTECTIVE HELMET WITH FACE PROTECTION SHIELD AND LINKAGE MECHANISM**
[54] **CASQUE DE PROTECTION POURVU D'UN ECRAN DE PROTECTION FACIALE ET D'UN MECANISME D'ARTICULATION**
[72] BOHN, ALEXA DANIELLE, US
[72] HEHMAN, DANIEL MARTIN, US
[73] MSA TECHNOLOGY, LLC, US
[85] 2021-12-01
[86] 2020-06-03 (PCT/US2020/035867)
[87] (WO2020/247459)
[30] US (16/431,043) 2019-06-04

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[11] **3,150,300**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON AND METHOD FOR MANUFACTURING INTERMITTENTLY CONNECTED OPTICAL FIBER RIBBON**
[54] **BANDE DE FIBRE OPTIQUE DE TYPE A CONNEXION INTERMITTENTE ET PROCEDE DE FABRICATION DE BANDE DE FIBRE OPTIQUE DE TYPE A CONNEXION INTERMITTENTE**
[72] KANEKO, SOICHIRO, JP
[72] TOMIKAWA, KOJI, JP
[72] OSATO, KEN, JP
[73] FUJIKURA LTD., JP
[85] 2022-02-07
[86] 2019-10-30 (PCT/JP2019/042515)
[87] (WO2021/084640)

Canadian Applications Open to Public Inspection

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24 juillet 2022 au 30 juillet 2022

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[21] **3,106,925**
[13] A1
[51] **Int.Cl. H01M 10/0569 (2010.01) H01M 10/0565 (2010.01) C01B 3/32 (2006.01) C01B 3/50 (2006.01) C07C 69/96 (2006.01) C07D 307/33 (2006.01) C08G 64/30 (2006.01) H01M 6/16 (2006.01) H01M 6/18 (2006.01)**
[25] EN
[54] **PRODUCTION OF BIOMASS BASED BATTERY ELECTROLYTES AND THERMOPOLYMER COMPONENTS**
[54] **PRODUCTION D'ELECTROLYTES DE BATTERIE A BASE DE BIOMASSE COMPOSANTES THERMOPOLYMERES**
[72] CHOW, RYAN, CA
[71] HIGHWOOD OIL COMPANY LTD., CA
[22] 2021-01-25
[41] 2022-07-25

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[21] **3,106,929**
[13] A1
[51] **Int.Cl. G06Q 50/16 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROPERTY SCORING/RATING**
[54] **SYSTEME ET METHODE DE NOTATION/CLASSEMENT DES PROPRIETES**
[72] PATEL, CHINTUKUMAR, CA
[71] PATEL, CHINTUKUMAR, CA
[22] 2021-01-25
[41] 2022-07-25

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[21] **3,106,935**
[13] A1
[51] **Int.Cl. A61G 7/10 (2006.01) A62B 35/00 (2006.01) B65G 7/12 (2006.01)**
[25] EN
[54] **CAREGIVER LIFTING HARNESS AND USE THEREOF**
[54] **HARNAIS DE LEVAGE POUR SOIGNANT ET UTILISATION CONNEXE**
[72] ATKINS, CHRISTOPHER, CA
[72] MAKOSINSKI, ARTHUR, CA
[71] ATKINS, CHRISTOPHER, CA
[71] MAKOSINSKI, ARTHUR, CA
[22] 2021-01-25
[41] 2022-07-25

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[21] **3,106,940**
[13] A1
[51] **Int.Cl. C23C 28/04 (2006.01) C23C 18/12 (2006.01) C25D 11/02 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL ALUMINA-BASED COATING ON CAST IRON, STEEL, COPPER OR COPPER ALLOY**
[54] **REVETEMENT A BASE D'ALUMINOXYDE MULTIFONCTIONNEL SUR LA FONTE, L'ACIER, LE CUIVRE OU L'ALLIAGE DE CUIVRE**
[72] NIE, YINING, CA
[72] ZHANG, JINGZENG, CA
[72] NIE, XUEYUAN, CA
[71] NIE, YINING, CA
[71] ZHANG, JINGZENG, CA
[71] NIE, XUEYUAN, CA
[22] 2021-01-25
[41] 2022-07-25

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[21] **3,106,963**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01) G06Q 40/04 (2012.01) G06F 21/60 (2013.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CONTROLLING ACCESS TO SECURE DATA RECORDS IN A WEB BROWSING SESSION**
[54] **SYSTEME ET METHODE DE CONTROLE DE L'ACCES POUR SECURISER DES FICHIERS DE DONNEES DANS UNE SESSION DE NAVIGATION WEB**
[72] ODOBETSKIY, KYRYLL, CA
[72] BROTHERSTON, DANIEL SCOTT, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-01-25
[41] 2022-07-25

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[21] **3,106,998**
[13] A1
[51] **Int.Cl. H04L 12/16 (2006.01) G06F 40/35 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR EXECUTING OPERATIONS IN A PERFORMANCE ENGINEERING ENVIRONMENT**
[54] **SYSTEME ET METHODE POUR EXECUTER LES OPERATIONS DANS UN ENVIRONNEMENT D'INGENIERIE DU RENDEMENT**
[72] SUBBUNARAYANAN, PERIYAKARUPPAN, CA
[72] KATHURIA, AAYUSH, CA
[72] SINGH, HARMANJIT, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-01-26
[41] 2022-07-26

[21] **3,107,004**
[13] A1
[51] **Int.Cl. G06F 11/36 (2006.01) H04W 24/00 (2009.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FACILITATING PERFORMANCE TESTING**
[54] **SYSTEME ET METHODE POUR FACILITER LES ESSAIS DE RENDEMENT**
[72] SUBBUNARAYANAN, PERIYAKARUPPAN, CA
[72] KATHURIA, AAYUSH, CA
[72] AIRD, KEVIN, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-01-26
[41] 2022-07-26

[21] **3,107,011**
[13] A1
[51] **Int.Cl. H04W 4/021 (2018.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING LOCATION BASED MULTIPLIER NOTIFICATIONS**
[54] **SYSTEME ET METHODE POUR GENERER DES NOTIFICATIONS DE MULTIPLICATEUR AXEES SUR L'EMPLACEMENT**
[72] KALWANI, NEHA DIPNA, CA
[72] MACDONALD, JEFFREY, CA
[72] REILLY, DAVID, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2021-01-25
[41] 2022-07-25

[21] **3,107,017**
[13] A1
[51] **Int.Cl. C07F 9/6561 (2006.01) A61K 9/28 (2006.01) A61K 31/675 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS OF TENOFOVIR ALAFENAMIDE**
[54] **FORMES CRISTALLINES DE TENOFOVIR ALAFENAMIDE**
[72] SOUZA, FABIO E. S., CA
[72] KARADEOLIAN, AVEDIS, CA
[72] STIRK, ALEXANDER J., CA
[71] APOTEX INC., CA
[22] 2021-01-26
[41] 2022-07-26

[21] **3,107,029**
[13] A1
[51] **Int.Cl. E04B 1/343 (2006.01) E04B 1/348 (2006.01)**
[25] EN
[54] **PRECAST STEEL CONCRETE MODULE**
[54] **MODULE DE BETON ARME PREFABRIQUE**
[72] ZEMRAU, GREGORY, CA
[72] ZEMRAU, GREGORY, CA
[72] COLES, BILLY, CA
[72] JAGPAL. NAVI, CA
[71] ZEMRAU, GREGORY, CA
[71] ZEMRAU, GREGORY, CA
[71] COLES, BILLY, CA
[71] JAGPAL. NAVI, CA
[71] EMERGE MODULAR LTD, CA
[22] 2021-01-26
[41] 2022-07-26

[21] **3,107,031**
[13] A1
[51] **Int.Cl. F16D 57/06 (2006.01) E21B 3/02 (2006.01) F16D 11/14 (2006.01)**
[25] EN
[54] **A BRAKING SYSTEM AND WELLBORE FLUID SEALING SYSTEMS FOR PROGRESSIVE CAVITY PUMP(PCP) DRIVE HEAD**
[54] **SYSTEME DE FREINAGE ET SYSTEMES D'ETANCHEITE AUX FLUIDES DE FORAGE POUR UNE TETE D'ENTRAINEMENT DE POMPE A VIS**
[72] YIN, MINHAO, CA
[71] YIN, MINHAO, CA
[22] 2021-01-25
[41] 2022-07-25

[21] **3,107,167**
[13] A1
[51] **Int.Cl. A01D 41/12 (2006.01) A01F 12/26 (2006.01) A01F 12/28 (2006.01)**
[25] EN
[54] **ADJUSTABLE GRATING FOR A COMBINE HARVESTER AND METHOD**
[54] **GRILLE AJUSTABLE POUR UNE MOISSONNEUSE-BATTEUSE ET METHODE**
[72] CANDLISH, JASON, CA
[71] CANDLISH, JASON, CA
[22] 2021-01-26
[41] 2022-07-26

[21] **3,107,173**
[13] A1
[51] **Int.Cl. G04G 7/00 (2006.01) G06F 1/12 (2006.01)**
[25] EN
[54] **ESTIMATION OF CLOCK SYNCHRONIZATION ERRORS USING TIME DIFFERENCE OF ARRIVAL**
[54] **ESTIMATION DES ERREURS DE SYNCHRONISATION D'HORLOGE AU MOYEN DE LA DIFFERENCE DES HEURES D'ARRIVEE**
[72] SPIESBERGER, JOHN LOUIS, US
[71] SCIENTIFIC INNOVATIONS, INC., US
[22] 2021-01-25
[41] 2022-07-25

[21] **3,107,245**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TARGETED ADVERTISING USING A CUSTOMER MOBILE COMPUTER DEVICE OR A KIOSK**
[54] **SYSTEMES ET METHODES POUR LA PUBLICITE CIBLEE A L'AIDE D'UN DISPOSITIF INFORMATIQUE MOBILE CLIENT OU D'UN KIOSQUE**
[72] BALONDONA, AURELIEN, CA
[71] BAUNE ECOSYSTEM INC., CA
[22] 2021-01-27
[41] 2022-07-27

[21] **3,107,267**
[13] A1
[51] **Int.Cl. H02G 1/04 (2006.01)**
[25] EN
[54] **ELECTRICALLY INSULATED BOOM MOUNTABLE TEMPORARY CONDUCTOR GUARD STRUCTURE**
[54] **STRUCTURE DE PROTECTION TEMPORAIRE DE CONDUCTEUR MONTABLE SUR UNE FLECHE A ISOLATION ELECTRIQUE**
[72] O'CONNELL, DANIEL NEIL, CA
[72] JODOIN, RAYMOND, HENRY, CA
[72] HARVEY, BENJAMIN JAMES, CA
[71] QUANTA ASSOCIATES, L.P., US
[22] 2021-01-27
[41] 2022-07-27

[21] **3,107,277**
[13] A1
[51] **Int.Cl. C13B 20/16 (2011.01) C13B 20/00 (2011.01) B01D 27/00 (2006.01) B01D 61/02 (2006.01)**
[25] FR
[54] **HIGH BRIX CONCENTRATOR, SYSTEM WITH SUCH A CONCENTRATOR, ASSEMBLY KIT AND CORRESPONDING ASSEMBLY, OPERATION AND USE METHODS**
[54] **CONCENTRATEUR HAUT BRIX, SYSTEME POURVU D'UN TEL CONCENTRATEUR, KIT POUR L'ASSEMBLER, ET METHODES D'ASSEMBLAGE, D'OPERATION ET D'UTILISATION CORRESPONDANTES**
[72] LAPIERRE, CARL, CA
[71] LES EQUIPEMENTS LAPIERRE INC., CA
[22] 2021-01-27
[41] 2022-07-27

[21] **3,107,283**
[13] A1
[51] **Int.Cl. H04W 24/00 (2009.01) H04B 17/318 (2015.01)**
[25] EN
[54] **QUALITY MONITORING**
[54] **SURVEILLANCE DE LA QUALITE**
[72] BOUTILIER, STEVE, CA
[72] MACKENZIE, COLIN, US
[72] MCALONEY, CHRIS, CA
[72] DION, GINO, CA
[71] NOKIA TECHNOLOGIES OY, FI
[22] 2021-01-27
[41] 2022-07-27

[21] **3,107,293**
[13] A1
[51] **Int.Cl. B25J 11/00 (2006.01) B25J 15/06 (2006.01) B25J 19/00 (2006.01)**
[25] EN
[54] **MODULAR ACCESSORY FOR PANEL ADHERENCE DEVICES**
[54] **ACCESSOIRE MODULAIRE POUR DES DISPOSITIFS D'ADHERENCE DE PANNEAU**
[72] ROLSETH, ERIC, US
[71] ROLSETH, ERIC, US
[22] 2021-01-28
[41] 2022-07-27
[30] US (63142484) 2021-01-27

[21] **3,107,298**
[13] A1
[51] **Int.Cl. G01V 9/00 (2006.01)**
[25] EN
[54] **ANALYTICAL SIMULATION FOR MULTIPHYSICS AND MULTIDOMAIN USING ANALYTICAL MODELING METHODOLOGY**
[54] **SIMULATION ANALYTIQUE DE MULTIPHYSIQUE ET DE MULTIDOMAINE AU MOYEN D'UNE METHODOLOGIE DE MODELISATION ANALYTIQUE**
[72] ZHAO, GANG, CA
[72] YUAN, WANJU, CA
[72] SU, CHANG, CN
[72] JIN, YEE-CHUNG, CA
[71] ZHAO, GANG, CA
[71] YUAN, WANJU, CA
[71] SU, CHANG, CN
[71] JIN, YEE-CHUNG, CA
[22] 2021-01-28
[41] 2022-07-28

[21] **3,107,324**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01) G06F 16/90 (2019.01) G06F 40/186 (2020.01) G06F 40/205 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD OF GENERATING DATA FOR POPULATING OR UPDATING ACCOUNTING DATABASES BASED ON DIGITIZED ACCOUNTING SOURCE DOCUMENTS**
[54] **SYSTEME ET METHODE DE GENERATION DE DONNEES POUR REMPLIR OU METTRE A JOUR DES BASES DE DONNEES COMPTABLES EN FONCTION DE DOCUMENTS SOURCE NUMERISES DE COMPTABILITE**
[72] MI, YANG, CA
[72] SUN, LING, CA
[71] MSCPW CORPORATION, CA
[22] 2021-01-27
[41] 2022-07-27

[21] **3,107,445**
[13] A1
[51] **Int.Cl. E21B 47/007 (2012.01)**
[25] EN
[54] **SUBSURFACE STRAIN ESTIMATION USING FIBER OPTIC MEASUREMENT**
[54] **ESTIMATION DE LA CONTRAINTE EN SUBSURFACE AU MOYEN DE LA MESURE PAR FIBRE OPTIQUE**
[72] DAVIES, KEVIN JOHN, US
[71] CHEVRON U.S.A. INC., US
[22] 2021-01-28
[41] 2022-07-28

[21] **3,107,477**
[13] A1
[51] **Int.Cl. A45F 5/02 (2006.01) H04B 1/3888 (2015.01) A41F 9/02 (2006.01)**
[25] EN
[54] **PHONEKEY BELT**
[54] **CEINTURE A TELEPHONE ET CLES**
[72] GRIFFITH, SANDRA, CA
[71] GRIFFITH, SANDRA, CA
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,483**
[13] A1
[51] **Int.Cl. H01R 4/66 (2006.01) H01R 4/48 (2006.01) H02G 1/02 (2006.01)**
[25] EN
[54] **SPRING LOADED GROUND CLAMP**
[54] **COLLIER DE MASSE A RESSORT**
[72] O'CONNELL, DANIEL NEIL, CA
[72] JODOIN, RAYMOND HENRY, CA
[72] HARVEY, BENJAMIN JAMES, CA
[71] QUANTA ASSOCIATES, L.P., US
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,494**
[13] A1
[51] **Int.Cl. C11D 3/60 (2006.01) C09K 3/00 (2006.01) C11D 1/72 (2006.01) C11D 3/04 (2006.01) C11D 3/30 (2006.01) C11D 3/33 (2006.01) C11D 3/44 (2006.01) C23G 1/02 (2006.01)**
[25] EN
[54] **ACIDIC CIP COMPOSITIONS**
[54] **COMPOSITIONS ACIDES**
[72] PURDY, CLAY, CA
[72] WEISSENBERGER, MARKUS, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,496**
[13] A1
[51] **Int.Cl. C11D 3/04 (2006.01) C11D 1/02 (2006.01) C11D 3/33 (2006.01) C11D 11/00 (2006.01)**
[25] EN
[54] **CAUSTIC CLEANING COMPOSITIONS**
[54] **COMPOSITIONS DE NETTOYAGE CAUSTIQUES**
[72] PURDY, CLAY, CA
[72] WEISSENBERGER, MARKUS, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,522**
[13] A1
[51] **Int.Cl. G16H 50/30 (2018.01) A61B 5/117 (2016.01)**
[25] EN
[54] **WEARABLE BIOMETRICS DEVICE**
[54] **DISPOSITIF BIOMETRIQUE A PORTER**
[72] GRANT, SEAN, CA
[71] GRANT, SEAN, CA
[22] 2021-01-29
[41] 2022-07-29
[30] US (17/248,573) 2021-01-29

[21] **3,107,527**
[13] A1
[51] **Int.Cl. A45D 8/30 (2006.01) A45D 8/00 (2006.01)**
[25] EN
[54] **MANE-TAINER**
[54] **BANDEAU MANE-TAINER**
[72] MURCH, LUKE, CA
[71] MURCH, LUKE, CA
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,539**
[13] A1
[51] **Int.Cl. F24F 3/08 (2006.01) F24F 11/46 (2018.01) F24F 11/875 (2018.01)**
[25] EN
[54] **HVAC HYDRONIC SYSTEM WITH SPLIT BUFFER TANK FOR ZERO-MIXING SYSTEM OPERATION**
[54] **SYSTEME HYDRONIQUE CVC COMPRENANT UN RESERVOIR TAMPON DIVISE POUR UNE OPERATION DE SYSTEME SANS MELANGE**
[72] BERRIO, DENERING, CA
[71] BERRIO, DENERING, CA
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,541**
[13] A1
[51] **Int.Cl. F02M 35/104 (2006.01) F02M 35/02 (2006.01)**
[25] EN
[54] **AIR-INTAKE DEVICE FOR ENGINE EQUIPMENT**
[54] **DISPOSITIF DE PRISE D'AIR POUR UN EQUIPEMENT-MOTEUR**
[72] LIN, KAO-SHAN, CN
[71] LIN, KAO-SHAN, CN
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,546**
[13] A1
[51] **Int.Cl. A47C 4/00 (2006.01) A47C 13/00 (2006.01) A47C 17/04 (2006.01)**
[25] EN
[54] **FOLDABLE OTTOMAN**
[54] **OTTOMANE PLIANTE**
[72] KANTHASAMY, ABEDAN, CA
[71] KANTHASAMY, ABEDAN, CA
[22] 2021-01-29
[41] 2022-07-29

[21] **3,107,555**
[13] A1
[51] **Int.Cl. H01M 10/54 (2006.01) H01M 4/1397 (2010.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **A PROCESS FOR RE-LITHIATION OF SPENT LFP CATHODES USING DIFFUSION-DRIVEN DOPING IN SOLID STATE WITH LITHIUM SALT**
[54] **PROCEDE DE RELITHIATION DES CATHODES LITHIUM-FER-PHOSPHATE AU MOYEN DU DOPAGE ENTRAINE PAR DIFFUSION A L'ETAT SOLIDE AVEC UN SEL DE LITHIUM**
[72] CHATTOPADHYAY, KINNOR, CA
[72] LIU, XINTONG, CA
[71] CHATTOPADHYAY, KINNOR, CA
[71] LIU, XINTONG, CA
[22] 2021-01-30
[41] 2022-07-30

[21] **3,107,578**
[13] A1
[51] **Int.Cl. A41D 13/11 (2006.01) A41B 1/08 (2006.01)**
[25] EN
[54] **ORIGINAL COVID CLOTHING AND WEAR**
[54] **VETEMENT COVID ORIGINAL A PORTER**
[72] MIZAK, DANIEL KEITH, CA
[71] MIZAK, DANIEL KEITH, CA
[22] 2021-01-26
[41] 2022-07-26

[21] **3,107,607**
[13] A1
[51] **Int.Cl. E04F 21/16 (2006.01)**
[25] EN
[54] **CURVED EDGES SEMI CIRCULAR ENDS TROWEL**
[54] **TRUELLE A EXTREMITES SEMI-CIRCULAIRES A BORDS COURBES**
[72] ALAWSI, ASAAD A., CA
[71] ALAWSI, ASAAD A., CA
[22] 2021-01-27
[41] 2022-07-27

[21] **3,107,608**
[13] A1
[51] **Int.Cl. G06F 16/903 (2019.01) G06Q 30/06 (2012.01)**
[25] EN
[54] **IDENTIFYING ITEMS OFFERED BY AN ONLINE CONCIERGE SYSTEM FOR A RECEIVED QUERY BASED ON A GRAPH IDENTIFYING RELATIONSHIPS BETWEEN ITEMS AND ATTRIBUTES OF THE ITEMS**
[54] **DETERMINATION DES ARTICLES OFFERTS PAR UN SYSTEME DE CONCIERGERIE EN LIGNE POUR UNE DEMANDE DE RECHERCHE RECUE EN FONCTION D'UN GRAPHIQUE DETAILLANT LES RELATIONS ENTRE LES ARTICLES ET LES ATTRIBUTS DES ARTICLES**
[72] TENNETI, TEJASWI, US
[72] SUBRAMANIAN, ADITYA, US
[72] ARCHAK, SHRIKAR, US
[72] TATE, TYLER, US
[71] MAPLEBEAR, INC. (DBA INSTACART), US
[22] 2021-01-29
[41] 2022-07-28
[30] US (17/160,759) 2021-01-28

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[21] **3,107,711**
[13] A1
[51] **Int.Cl. A63B 22/00 (2006.01) A63B 69/00 (2006.01) A63F 9/02 (2006.01)**
[25] EN
[54] **HAND EYE COORDINATION DEVELOPMENT APPARATUS AND METHOD**
[54] **APPAREIL DE PERFECTIONNEMENT DE LA COORDINATION MAIN-OEIL ET METHODE**
[72] RUSAN, GLEN, CA
[71] RUSAN, GLEN, CA
[22] 2021-02-01
[41] 2022-07-28
[30] US (17/160,457) 2021-01-28

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[21] **3,108,531**
[13] A1
[51] **Int.Cl. G99Z 99/00 (2006.01) H02S 10/00 (2014.01) H02J 50/00 (2016.01) C99Z 99/00 (2006.01) H02J 4/00 (2006.01) H05K 11/00 (2006.01)**
[25] EN
[54] **AN APPARATUS, DEVICE AND OR SUBJECT MATTER KNOWN AS SOLAR POWER OR ELECTRICAL FREQUENCY THAT ALLOWS TV'S, CELL PHONES, LAPTOPS, COMPUTERS, STATIONARY AND OR WIRELESS, HOUSEHOLD APPLIANCES, TOOLS AND OR ANY DEVICE AND OR ANY SUBJECT RELATING TO THE USE OF ELECTRICITY WIRELESS AND OR WIRED**
[54] **APPAREIL, DISPOSITIF ET/OU MATIERE CONNUS SOUS LE NOM DE FREQUENCE D'ENERGIE SOLAIRE OU D'ELECTRICITE PERMETTANT AUX TELEVISIONS, AUX TELEPHONES CELLULAIRES, AUX ORDINATEURS PORTATIFS, AUX ORDINATEURS STATIONNAIRES OU SANS FIL, AUX ELECTROMENAGERS, AUX OUTILS ET/OU A TOUT DISPOSITIF. ET/OU TOUTE MATIERE CONCERNANT L'UTILISATION DE L'ELECTRICITE SANS FIL ET/O**
[72] VILLE DE CARIES, GLENN, CA
[72] DE CARIES, JENNILEE, CA
[71] VILLE DE CARIES, GLENN, CA
[71] DE CARIES, JENNILEE, CA
[22] 2021-01-30
[41] 2022-07-30

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[21] **3,110,613**
[13] A1
[51] **Int.Cl. H04M 3/436 (2006.01) H04M 15/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CALLER VERIFICATION**
[54] **SYSTEME ET METHODE DE VERIFICATION DE L'APPELANT**
[72] NYHOLT, TRACEY, CA
[72] BOND, MIKE, CA
[72] COMEAU, GABRIELLE, CA
[72] FINNIGAN, CHELSEA, CA
[71] TECHJUTSU INC., CA
[22] 2021-02-26
[41] 2022-07-29
[30] US (63/143,318) 2021-01-29

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[21] **3,111,416**
[13] A1
[51] **Int.Cl. E06B 7/08 (2006.01)**
[25] EN
[54] **MODULAR STRUCTURAL LOUVER AND METHODS OF USE**
[54] **PERSIENNE STRUCTURALE MODULAIRE ET METHODES D'UTILISATION**
[72] MANKIN, ALEXANDER, US
[72] BRANDI, ERNEST, US
[72] BLINK, DAVID JOHN, US
[72] WILSON, CHARLES E., US
[71] SPAN CONSTRUCTION & ENGINEERING, INC., US
[22] 2021-03-05
[41] 2022-07-28
[30] US (63/143003) 2021-01-28
[30] US (17/175328) 2021-02-12

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[21] **3,113,520**
[13] A1
[51] **Int.Cl. A47B 96/02 (2006.01) A47B 45/00 (2006.01)**
[25] EN
[54] **SHELF APPARATUS**
[54] **APPAREIL D'ETAGERE**
[72] MAKOVICH, WES, CA
[71] MAKOVICH, WES, CA
[22] 2021-03-29
[41] 2022-07-27
[30] US (62/966,244) 2021-01-27

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[21] **3,117,298**
[13] A1
[51] **Int.Cl. G06K 9/62 (2022.01) G06N 3/02 (2006.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **LEARNING USER ACTIONS TO IMPROVE TRANSACTION CATEGORIZATION**
[54] **APPRENTISSAGES DES ACTIONS D'UTILISATEURS POUR AMELIORER LA CATEGORISATION DES TRANSACTIONS**
[72] LIU, JUAN, US
[72] PEI, LEI, US
[72] SUN, YING, US
[71] INTUIT INC., US
[22] 2021-05-06
[41] 2022-07-29
[30] US (17/162,365) 2021-01-29

[21] **3,117,579**
[13] A1
[51] **Int.Cl. E04D 15/00 (2006.01) E04D 13/12 (2006.01) E04G 3/26 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT COMPOSITE ROOFING SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT DE COUVERTURE COMPOSITE LEGER**
[72] RASHID, PHILIP F., US
[72] TESOLIN, PHILLIP A., US
[71] PHIL SQUARED ROOF JACK SYSTEMS LLC, US
[22] 2021-05-07
[41] 2022-07-29
[30] US (17/163,200) 2021-01-29

[21] **3,119,372**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **ATOMIZER, E-CIGARETTE ASSEMBLY COMPRISING ATOMIZER, AND E-CIGARETTE COMPRISING E-CIGARETTE ASSEMBLY**
[54] **PULVERISATEUR, ASSEMBLAGE DE CIGARETTE ELECTRONIQUE COMPRENANT LE PULVERISATEUR ET CIGARETTE ELECTRONIQUE COMPRENANT L'ASSEMBLAGE DE CIGARETTE ELECTRONIQUE**
[72] LIU, TUANFANG, CN
[71] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN
[22] 2021-05-21
[41] 2022-07-29
[30] CN (202110130270.4) 2021-01-29
[30] CN (202120261465.8) 2021-01-29
[30] CN (202110267442.2) 2021-03-11
[30] CN (202120514393.3) 2021-03-11

[21] **3,133,635**
[13] A1
[51] **Int.Cl. H01R 4/66 (2006.01) H01R 4/48 (2006.01)**
[25] EN
[54] **SPRING LOADED GROUND CLAMP**
[54] **COLLIER DE MASSE A RESSORT**
[72] O'CONNELL, DANIEL NEIL, CA
[72] JODOIN, RAYMOND HENRY, CA
[72] HARVEY, BENJAMIN JAMES, CA
[71] QUANTA ASSOCIATES, L.P., US
[22] 2021-10-08
[41] 2022-07-29
[30] US (63/143,418) 2021-01-29
[30] CA (3,107,483) 2021-01-29

[21] **3,138,153**
[13] A1
[51] **Int.Cl. B32B 3/08 (2006.01) B32B 7/03 (2019.01) B32B 5/26 (2006.01) B32B 5/28 (2006.01) B32B 27/04 (2006.01) B64C 1/00 (2006.01)**
[25] EN
[54] **FLAT COMPOSITE PANEL WITH TEAR ARRESTMENT AND METHOD OF MAKING THE SAME**
[54] **PANNEAU COMPOSITE PLAT PRESENTANT DES CARACTERISTIQUES D'ARRET DES DECHIRURES ET METHODE DE FABRICATION**
[72] SKILTON, RICHARD A., US
[72] DOUGHERTY, STEPHEN T., US
[72] MARX, DANIEL PAUL HOPE, US
[71] THE BOEING COMPANY, US
[22] 2021-11-08
[41] 2022-07-28
[30] US (63/142767) 2021-01-28

[21] **3,138,767**
[13] A1
[51] **Int.Cl. G01C 21/00 (2006.01)**
[25] EN
[54] **VIRTUAL MAPPING SYSTEMS AND METHODS FOR USE IN AUTONOMOUS VEHICLE NAVIGATION**
[54] **SYSTEME DE CARTOGRAPHIE VIRTUELLE ET METHODES D'UTILISATION DANS LA NAVIGATION DE VEHICULES AUTONOMES**
[72] GUPTA, APOORVA, CA
[72] BITTARELLI, MATTHEW, CA
[71] 6 RIVER SYSTEMS, LLC, US
[22] 2021-11-11
[41] 2022-07-25
[30] US (17/157067) 2021-01-25

[21] **3,138,963**
[13] A1
[51] **Int.Cl. E06B 9/32 (2006.01) E06B 9/56 (2006.01)**
[25] EN
[54] **BLIND LIFTING DEVICE AND A BLIND LIFTING CONTROL MODULE THEREOF**
[54] **DISPOSITIF DE LEVAGE DE STORE ET MODULE DE COMMANDE DE LEVAGE DE STORE CONNEXE**
[72] LEE, CHENG-HUNG, TW
[72] CHIANG, LUNG-YI, TW
[71] SYNCPROTO CO., LTD., TW
[22] 2021-11-12
[41] 2022-07-28
[30] TW (110103296) 2021-01-28

[21] **3,140,536**
[13] A1
[51] **Int.Cl. B23Q 3/02 (2006.01) B25B 11/00 (2006.01)**
[25] EN
[54] **LOCKING DEVICE FOR WORKPIECES THAT ARE ADAPTED TO BE MACHINED ON MACHINE TOOLS**
[54] **DISPOSITIF DE VERROUILLAGE POUR PIECES A USINER ADAPTEES A L'USINAGE SUR DES MACHINES-OUTILS**
[72] ROLANDI, ANDREA, IT
[71] OFFICINA MECCANICA LOMBARDA S.R.L., IT
[22] 2021-11-26
[41] 2022-07-28
[30] IT (102021000001679) 2021-01-28

[21] **3,140,794**
[13] A1
[51] **Int.Cl. B24D 15/04 (2006.01)**
[25] EN
[54] **A BLOCKING TOOL**
[54] **OUTIL DE PONCAGE A BLOC**
[72] DAVIDSEN, COLTEN D., US
[71] DAVIDSEN, COLTEN D., US
[22] 2021-11-30
[41] 2022-07-25
[30] US (17/156,712) 2021-01-25

[21] **3,141,116**
[13] A1
[51] **Int.Cl. G01N 1/34 (2006.01) G01N 33/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND RELATED METHODS FOR ANALYZING A GAS**
[54] **SYSTEMES ET METHODES CONNEXES POUR ANALYSER UN GAZ**
[72] JIN, CONG, CA
[72] MUWANGUZI, SAMUEL MUKASA, CA
[72] HORVATH, CAMERON STEVE, CA
[72] AKTARY, MIRWAIS, CA
[71] APPLIED NANOTOOLS INC., CA
[22] 2021-12-06
[41] 2022-07-26
[30] US (63/141,548) 2021-01-26

[21] **3,142,217**
[13] A1
[51] **Int.Cl. E21B 19/22 (2006.01)**
[25] EN
[54] **COILED TUBING INJECTOR AND METHOD OF CONTROLLING SAME**
[54] **INJECTEUR A TUBE DE PRODUCTION CONCENTRIQUE ET METHODE DE COMMANDE**
[72] DAY, MARK ALEXANDER, CA
[71] CENOVUS ENERGY INC., CA
[22] 2021-12-14
[41] 2022-07-28
[30] US (63/142,922) 2021-01-28

[21] **3,142,419**
[13] A1
[51] **Int.Cl. A01B 76/00 (2006.01) A01C 1/00 (2006.01) A01C 5/06 (2006.01)**
[25] EN
[54] **IMPLEMENT MOUNTED SENSORS SENSING SEED AND RESIDUE CHARACTERISTICS AND CONTROL**
[54] **CAPTEURS INSTALLES SUR UN APPAREIL DETECTANT LES CARACTERISTIQUES DE SEMENCE ET DE RESIDU, ET CONTROLE**
[72] VAN DE WOESTYNE, BRADLEY W., US
[72] HITCHLER, BRADLEY J., US
[72] BORGSTADT, JUSTIN A., US
[72] TELIKICHERLA, ANIL KUMAR, US
[72] SAEED, OOSMAN, US
[71] DEERE & COMPANY, US
[22] 2021-12-15
[41] 2022-07-25
[30] US (17/156,778) 2021-01-25

[21] **3,142,650**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01) A01B 63/00 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **DOWNFORCE CONTROL SYSTEM FOR A ROW CLEANER OF A SEEDING IMPLEMENT**
[54] **SYSTEME DE COMMANDE DE DEPORTANCE D'UN DISPOSITIF DE DEGAGEMENT DE RANGEE D'UN SEMOIR**
[72] THOMPSON, DENNIS GEORGE, CA
[72] KOWALCHUK, TREVOR LAWRENCE, CA
[71] CNH INDUSTRIAL CANADA, LTD., CA
[22] 2021-12-16
[41] 2022-07-29
[30] US (17/161,984) 2021-01-29

[21] **3,142,701**
[13] A1
[51] **Int.Cl. B60S 1/04 (2006.01) B60S 1/18 (2006.01)**
[25] EN
[54] **WINDSHIELD WIPER SYSTEM WITH AN INTERNAL TRIGGER**
[54] **SYSTEME D'ESSUIE-GLACE COMPRENANT UN CIRCUIT DE DECLENCHEMENT INTERNE**
[72] SRINIVAS, NOUDURI PHANI, IN
[72] MANJUNATH, ARUNA, IN
[71] ROSEMOUNT AEROSPACE INC., US
[22] 2021-12-16
[41] 2022-07-25
[30] IN (202141003431) 2021-01-25

[21] **3,142,767**
[13] A1
[51] **Int.Cl. F04B 49/00 (2006.01) E21B 43/26 (2006.01) F01D 15/08 (2006.01) F04B 17/00 (2006.01) F04B 49/06 (2006.01) F04B 49/08 (2006.01)**
[25] EN
[54] **OPERATION METHOD OF A TURBINE FRACTURING DEVICE AND A TURBINE FRACTURING DEVICE**
[54] **METHODE D'EXPLOITATION D'UN DISPOSITIF DE FRACTURATION A TURBINE, ET DISPOSITIF DE FRACTURATION A TURBINE**
[72] MAO, ZHUQING, CN
[72] ZHANG, RIKUI, CN
[72] ZHANG, PENG, CN
[72] WANG, JIANWEI, CN
[72] WANG, JIHUA, CN
[72] JI. XIAOLEI, CN
[72] LI, XINCHENG, CN
[72] SUN, YUXUAN, CN
[72] WU, YIPENG, CN
[72] LAN, CHUNQIANG, CN
[72] LV, LIANG, CN
[71] YANTAI JEREH PETROLEUM EQUIPMENT & TECHNOLOGIES CO., LTD., CN
[22] 2021-09-24
[41] 2022-07-26
[30] CN (202110101567.8) 2021-01-26
[30] CN (202110608526.8) 2021-06-01

[21] **3,143,851**
[13] A1
[51] **Int.Cl. C08L 67/00 (2006.01) C08K 3/013 (2018.01) C08J 3/18 (2006.01) C08K 7/02 (2006.01) C08L 3/02 (2006.01)**
[25] EN
[54] **BIODEGRADABLE POLYMERIC MATERIAL, BIODEGRADABLE PRODUCTS AND METHODS OF MANUFACTURE AND USE THEREFOR**
[54] **MATERIAU POLYMERE BIODEGRADABLE, PRODUITS BIODEGRADABLES ET METHODES DE FABRICATION ET D'UTILISATION**
[72] DONG, CHANG, CA
[72] TYAGI, KRITIKA, CA
[72] ZARRINBAKHSH, NIMA, CA
[72] ABDOLI, HOSSEIN, CA
[72] WEN, JIAHUI, CN
[71] ERTHOS INC., CA
[22] 2021-12-23
[41] 2022-07-29
[30] CN (202110129521.7) 2021-01-29

[21] **3,144,383**
[13] A1
[51] **Int.Cl. G01B 21/28 (2006.01) A01B 76/00 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM FOR CALCULATING OPERATION ACRES OF AGRICULTURAL MACHINERY**
[54] **METHODE ET SYSTEME POUR CALCULER LES ACRES D'EXPLOITATION DE MACHINES AGRICOLES**
[72] MENG, GUIPING, CN
[72] WANG, GAODONG, CN
[72] SUN, BEI, CN
[72] DING, JI, CN
[72] WU, DI, CN
[71] FJ DYNAMICS CO., LTD., CN
[22] 2021-12-29
[41] 2022-07-29
[30] CN (202110128125.2) 2021-01-29

[21] **3,144,909**
[13] A1
[51] **Int.Cl. E01H 5/06 (2006.01) B62D 63/06 (2006.01)**
[25] FR
[54] **SNOW REMOVAL TRAILER WITH SECURED TILLER LOCK**
[54] **REMORQUE DE DENEIGEMENT A VEROUILLAGE DE TIMON SECURISE**
[72] BENEDETTI, MICHEL, FR
[71] SOVIAR, FR
[22] 2022-01-06
[41] 2022-07-28
[30] FR (21 00790) 2021-01-28

[21] **3,144,910**
[13] A1
[51] **Int.Cl. E01H 5/04 (2006.01)**
[25] FR
[54] **SNOW REMOVAL TRAILER WITH THIRD VEHICLE DETECTION METHODS**
[54] **REMORQUE DE DENEIGEMENT A MOYENS DE DETECTION D'UN VEHICULE TIERS**
[72] BENEDETTI, MICHEL, FR
[71] SOVIAR, FR
[22] 2022-01-06
[41] 2022-07-28
[30] FR (21 00788) 2021-01-28

[21] **3,145,060**
[13] A1
[51] **Int.Cl. A63G 31/00 (2006.01) A63G 25/00 (2006.01) A63G 31/02 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A RIDE AND A RIDE**
[54] **METHODE D'EXPLOITATION D'UN MANEGE, ET MANEGE**
[72] GRABITZ, CHRISTIAN, DE
[72] GORDT, DENNIS, DE
[72] ROSER, MAXIMILIAN, DE
[72] KREMER, MAURICE, DE
[72] FOHLES, JULIAN, DE
[72] GEWALD, JOSCHKA, DE
[72] KOBELE, THORSTEN, DE
[72] RIGLING, SASCHA, DE
[72] ALT, STEPHAN, DE
[71] MACK RIDES GMBH & CO. KG, DE
[22] 2022-01-07
[41] 2022-07-27
[30] DE (10 2021 101 864.1) 2021-01-27

[21] **3,145,373**
[13] A1
[51] **Int.Cl. E21B 33/13 (2006.01) E21B 34/08 (2006.01)**
[25] EN
[54] **MODIFIED FLOAT COLLAR AND METHODS OF USE**
[54] **ANNEAU DE RETENUE MODIFIE ET METHODES D'UTILISATION**
[72] LAUN, LYLE E., CA
[71] CANADIAN CASING ACCESSORIES INC., CA
[22] 2022-01-11
[41] 2022-07-25
[30] US (63/141,054) 2021-01-25

[21] **3,145,497**
[13] A1
[51] **Int.Cl. H05B 47/105 (2020.01) H05B 45/10 (2020.01) G05B 19/042 (2006.01) H03K 17/687 (2006.01) H05K 1/18 (2006.01) B25H 3/00 (2006.01)**
[25] EN
[54] **CIRCUIT BOARD WITH SENSOR CONTROLLED LIGHTS AND END-TO-END CONNECTION**
[54] **CARTE DE CIRCUITS IMPRIMES COMPRENANT DES LUMIERES CONTROLEES PAR CAPTEUR ET UNE CONNEXION DE BOUT EN BOUT**
[72] KUTER-ARNEBECK, OTTOLEO, US
[72] WEIR, NICHOLAS H., US
[72] SCHULZ, BEN, US
[72] HANSEN, STEVEN K., US
[72] KAHL, ROBERT F., US
[71] SNAP-ON INCORPORATED, US
[22] 2022-01-12
[41] 2022-07-29
[30] US (17/162,512) 2021-01-29

[21] **3,145,545**
[13] A1
[51] **Int.Cl. B60R 9/04 (2006.01) B60R 9/058 (2006.01)**
[25] EN
[54] **VEHICLE ROOF ACCESSORY ASSEMBLY AND VEHICLE WITH SAME**
[54] **ASSEMBLAGE D'ACCESSOIRE DE TOIT DE VEHICULE ET VEHICULE LE COMPORTANT**
[72] SAVARD, LAURENT, CA
[72] ELBAROUDI, ABDELGHAFOUR, CA
[72] MARTIN, HUGO, CA
[72] MATHIEU, PATRICK, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2022-01-13
[41] 2022-07-29
[30] US (63/143,175) 2021-01-29

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[21] **3,145,675**
[13] A1
[51] **Int.Cl. B60K 26/00 (2006.01)**
[25] EN
[54] **METHOD FOR ACCELERATING A VEHICLE FROM REST**
[54] **METHODE D'ACCELERATION D'UN VEHICULE D'UNE POSITION AU REPOS**
[72] DULAC, MAXIME, CA
[72] ASSELIN, DONAVAN, CA
[72] ST-LAURENT, FRANCOIS, CA
[72] LEVESQUE, EDOUARD, CA
[72] RANCOURT, FREDERIC, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2022-01-14
[41] 2022-07-29
[30] US (63/143,095) 2021-01-29

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[21] **3,145,932**
[13] A1
[51] **Int.Cl. B25B 7/14 (2006.01) B25B 7/16 (2006.01)**
[25] EN
[54] **HIGH LEVERAGE LOCKING PLIERS**
[54] **PINCE-ETAU A BRAS DE LEVIERS PUISSANTS**
[72] EGGERT, DANIEL M., US
[72] MOYER, DOUGLAS, US
[71] SNAP-ON INCORPORATED, US
[22] 2022-01-18
[41] 2022-07-28
[30] US (17/161,010) 2021-01-28

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[21] **3,145,934**
[13] A1
[51] **Int.Cl. B25B 13/46 (2006.01)**
[25] EN
[54] **TOOL WITH SURFACES WITH A COMPRESSIVE SURFACE STRESS LAYER**
[54] **OUTIL PRESENTANT DES SURFACES AYANT UNE COUCHE DE CONTRAINTE DE COMPRESSION DE SURFACE**
[72] KUTER-ARNEBECK, OTTOLEO, US
[72] ROSS, DAVID T., US
[71] SNAP-ON INCORPORATED, US
[22] 2022-01-18
[41] 2022-07-26
[30] US (17/158,551) 2021-01-26

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[21] **3,145,941**
[13] A1
[51] **Int.Cl. F16C 43/04 (2006.01) F16C 41/02 (2006.01)**
[25] EN
[54] **PRELOAD ASSEMBLY FOR ROLLER BEARINGS**
[54] **ASSEMBLAGE DE PRECHARGE DE ROULEMENT A ROULEAUX**
[72] BOOMS, DALE ROBERT, US
[71] BOOMS, DALE ROBERT, US
[22] 2022-01-18
[41] 2022-07-26
[30] US (17/158,054) 2021-01-26

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[21] **3,145,948**
[13] A1
[51] **Int.Cl. E04G 5/10 (2006.01) E04F 11/02 (2006.01) E04G 1/15 (2006.01)**
[25] EN
[54] **SCAFFOLDING STAIR SYSTEM**
[54] **SYSTEME D'ESCALIER D'ECHAFAUDAGE**
[72] TRASK, JEREMY WAYNE, US
[71] COMMERCIAL SCAFFOLDING COMPANIES, INC, US
[22] 2022-01-18
[41] 2022-07-26
[30] US (17/158,902) 2021-01-26

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[21] **3,145,984**
[13] A1
[51] **Int.Cl. C10G 31/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SEPARATING HYDROCARBONS WITH SUBSTANTIALLY REDUCED EMISSIONS**
[54] **SYSTEMES ET METHODES DE SEPARATION D'HYDROCARBURES A EMISSIONS SUBSTANTIELLEMENT REDUITES**
[72] SNIDER, GEORGE E., US
[72] DIORIO, DARIN, US
[71] DESIGNER FUELS LLC, US
[22] 2022-01-18
[41] 2022-07-25
[30] US (US 17/157,521) 2021-01-25
[30] US (63/141,295) 2021-01-25

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[21] **3,146,012**
[13] A1
[51] **Int.Cl. F02C 7/36 (2006.01) B64D 27/10 (2006.01) B64D 27/24 (2006.01) B64D 33/00 (2006.01) B64D 35/00 (2006.01) F02C 6/20 (2006.01) F02C 7/275 (2006.01) F02C 7/32 (2006.01)**
[25] EN
[54] **HYBRID POWER PLANT FOR AIRCRAFT**
[54] **GROUPE MOTOPROPULSEUR HYBRIDE POUR AERONEF**
[72] VALOIS, PATRICK, CA
[72] TURCOTTE, HERVE, CA
[72] FREER, RICHARD, CA
[72] TREMBLAY, JONATAN, CA
[72] LATULIPE, ERIC, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2022-01-18
[41] 2022-07-25
[30] US (17/156,933) 2021-01-25

[21] **3,146,117**
[13] A1
[51] **Int.Cl. G06V 20/62 (2022.01) G06V 10/26 (2022.01) G06V 10/30 (2022.01) G06V 10/82 (2022.01)**
[25] EN
[54] **METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCT FOR REMOVING EXTRANEOUS CONTENT FROM DRUG PRODUCT PACKAGING TO FACILITATE VALIDATION OF THE CONTENTS THEREIN**
[54] **METHODES, SYSTEMES ET PROGRAMME INFORMATIQUE POUR ELIMINER LE CONTENU SUPERFICIEL D'UN EMBALLAGE DE PRODUIT DE MEDICAMENT POUR FACILITER LA VALIDATION DES CONTENUS A L'INTERIEUR.**
[72] RAY, ABHISHEK, IN
[72] BUGAY, JOHN ALFRED, US
[72] JENKINS, TODD MARTIN, US
[72] MARTIN, COREY SPENCER, US
[72] SWANSON, ARTHUR F., US
[72] XU, RONGKAI, US
[72] LEWIS, RUSSELL F., US
[71] PARATA SYSTEMS, LLC, US
[22] 2022-01-18
[41] 2022-07-29
[30] US (63/143400) 2021-01-29

[21] **3,146,127**
[13] A1
[51] **Int.Cl. G06F 16/00 (2019.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **SYSTEM FOR DETECTING ASSOCIATED RECORDS IN A RECORD LOG**
[54] **SYSTEME DE DETECTION DE FICHIERS CONNEXES DANS UN REGISTRE DE FICHIERS**
[72] LEE, JONATHAN, US
[72] MOREAU-ARNOTT, ELIJAH, US
[72] FRENSCH, STEVE, US
[72] RANDALL, GARRETT, US
[71] CAPITAL ONE SERVICES, LLC, US
[22] 2022-01-18
[41] 2022-07-26
[30] US (17/248460) 2021-01-26

[21] **3,146,191**
[13] A1
[51] **Int.Cl. B23K 26/36 (2014.01)**
[25] EN
[54] **LASER ABLATION SEAL SLOT MACHINING**
[54] **USINAGE DE FENTE DE SCEAU PAR ABLATION LASER**
[72] KOSKI, TIMOTHY JOHN, US
[72] ANDREWS, TIMOTHY FRANCIS, US
[72] MYERS, CALEB DEWAYNE, US
[71] GENERAL ELECTRIC COMPANY, US
[22] 2022-01-19
[41] 2022-07-28
[30] US (17/160,793) 2021-01-28

[21] **3,146,242**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) G07B 17/02 (2006.01)**
[25] EN
[54] **GENERATION AND MANAGEMENT OF PRE-PAID RETURN SHIPMENT POSTAGE**
[54] **GENERATION ET GESTION DES FRAIS D'AFFRANCHISSEMENT DE RETOUR PREPAYES**
[72] WILSON, KIRK LANE, US
[71] QUADIENT TECHNOLOGIES FRANCE, FR
[22] 2022-01-20
[41] 2022-07-27
[30] US (17/159,499) 2021-01-27

[21] **3,146,328**
[13] A1
[51] **Int.Cl. B61D 3/18 (2006.01) B60P 3/073 (2006.01)**
[25] EN
[54] **UNIVERSAL HITCH INTERMODAL WELL CAR SYSTEM**
[54] **SYSTEME DE DOUBLE-STACK INTERMODAL A ATTACHE DE REMORQUAGE UNIVERSELLE**
[72] KEYSER, GRANT, US
[72] BROWN, ANDREW, US
[71] TRINITY RAIL GROUP, LLC, US
[22] 2022-01-20
[41] 2022-07-27
[30] US (17/159,911) 2021-01-27

[21] **3,146,407**
[13] A1
[51] **Int.Cl. G01R 31/66 (2020.01) G01R 35/00 (2006.01) H02G 1/00 (2006.01)**
[25] EN
[54] **CONNECTIVITY VERIFICATION FOR AN ABSENCE OF VOLTAGE TESTER SYSTEM**
[54] **VERIFICATION DE LA CONNECTIVITE POUR UN SYSTEME DE TESTEUR DE L'ABSENCE DE TENSION**
[72] BALID, WALID, US
[72] BOLOURI-SARANSAR, MASUD, US
[71] PANDUIT CORP., US
[22] 2022-01-20
[41] 2022-07-26
[30] US (63/141,569) 2021-01-26
[30] US (17/381,388) 2021-07-21

[21] **3,146,500**
[13] A1
[51] **Int.Cl. H01M 10/0565 (2010.01) H01M 4/134 (2010.01)**
[25] EN
[54] **HYDROGEL-BASED RECHARGEABLE BATTERY**
[54] **BATTERIE RECHARGEABLE A BASE D'HYDROGEL**
[72] MYPATI, SREEMANNARAYANA, CA
[72] KHAZAELI, ALI, CA
[72] BARZ, DOMINIK, CA
[71] QUEEN'S UNIVERSITY AT KINGSTON, CA
[22] 2022-01-21
[41] 2022-07-25
[30] US (63/141,197) 2021-01-25

[21] **3,146,535**
[13] A1
[51] **Int.Cl. A01G 23/06 (2006.01)**
[25] EN
[54] **DISC MULCHER DRIVE SYSTEM**
[54] **SYSTEME D'ENTRAINEMENT DE PAILLEUSE A DISQUE**
[72] WOOD, ZACHARY SHELBY, US
[71] DIAMOND MOWERS, LLC, US
[22] 2022-01-24
[41] 2022-07-26
[30] US (63/141,648) 2021-01-26

[21] **3,146,543**
[13] A1
[51] **Int.Cl. B01D 17/025 (2006.01) B01D 17/12 (2006.01)**
[25] EN
[54] **SEPARATION APPARATUS, SYSTEM AND METHOD OF USE**
[54] **APPAREIL DE SEPARATION, SYSTEME ET METHODE D'UTILISATION**
[72] ROSS, DAVID, US
[71] ROSS, DAVID, US
[22] 2022-01-24
[41] 2022-07-26
[30] US (63/141,779) 2021-01-26
[30] US (17/344,891) 2021-06-10

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[21] **3,146,595**
[13] A1
[51] **Int.Cl. F28D 19/04 (2006.01) F24F 12/00 (2006.01) F24F 13/30 (2006.01)**
[25] EN
[54] **ENERGY RECOVERY WHEEL ASSEMBLY**
[54] **ASSEMBLAGE DE ROUE DE RECUPERATION D'ENERGIE**
[72] CARON, CHARLES-ANTOINE, US
[71] BROAN-NUTONE LLC, US
[22] 2022-01-24
[41] 2022-07-25
[30] US (63/141,085) 2021-01-25
[30] US (17/582,198) 2022-01-24

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[21] **3,146,620**
[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01)**
[25] EN
[54] **PRIVACY PROTECTION BASED ENTITY ALIGNMENT METHOD AND COMPUTER STORAGE MEDIUM**
[54] **METHODE D'ALIGNEMENT D'ENTITE FONDEE SUR LA PROTECTION DES RENSEIGNEMENTS PERSONNELS ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] LI, JIANXIN, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-01-25
[41] 2022-07-25
[30] CN (202110096137.1) 2021-01-25

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[21] **3,146,621**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 21/62 (2013.01) G06F 16/27 (2019.01)**
[25] EN
[54] **DATA PROCESSING METHOD AND DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **METHODE ET DISPOSITIF DE TRAITEMENT DE DONNEES, EQUIPEMENT INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] WANG, WANRUI, CN
[72] SHENG, WEI, CN
[72] TAO, JINGHONG, CN
[71] 10353744 CANADA LTD., CA
[22] 2022-01-25
[41] 2022-07-25
[30] CN (202110101477.9) 2021-01-25

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[21] **3,146,624**
[13] A1
[51] **Int.Cl. F17D 1/16 (2006.01) C09K 23/14 (2022.01) C09K 8/524 (2006.01)**
[25] EN
[54] **CRUDE OIL TRANSPORTATION**
[54] **TRANSPORT DE PETROLE BRUT**
[72] KYLE, NICHOLA, GB
[72] KERBY, PAUL, GB
[72] MORTON, COLIN, GB
[72] PERRYMAN, MICHAEL, GB
[71] INFINEUM INTERNATIONAL LIMITED, GB
[22] 2022-01-25
[41] 2022-07-26
[30] EP (21153482.1) 2021-01-26

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[21] **3,146,628**
[13] A1
[51] **Int.Cl. E04B 2/88 (2006.01) E04B 1/41 (2006.01) E04F 13/22 (2006.01) F16B 5/00 (2006.01)**
[25] EN
[54] **FACADE SUPPORT SYSTEM**
[54] **SYSTEME DE SUPPORT DE FACADE**
[72] OSMANSKI, RICHARD, US
[72] MASON, CHRISTOPHER, US
[71] HOHMANN & BARNARD INC., US
[22] 2022-01-25
[41] 2022-07-29
[30] US (17/162540) 2021-01-29

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[21] **3,146,633**
[13] A1
[51] **Int.Cl. E06B 9/307 (2006.01) E06B 9/303 (2006.01)**
[25] EN
[54] **RAIL CLIPS FOR STOWING A TILT WAND AND RELATED HEADRAIL ASSEMBLIES AND COVERINGS**
[54] **PINCES-RAILS POUR RANGER UNE BAGUETTE D'INCLINAISON ET ASSEMBLAGES ET COUVERTURES DE RAILS DE RETENUE CONNEXES**
[72] ZHU, JUSTIN, US
[71] LEVOLOR, INC., US
[22] 2022-01-25
[41] 2022-07-26
[30] US (63/141,561) 2021-01-26

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[21] **3,146,639**
[13] A1
[51] **Int.Cl. E05B 83/36 (2014.01) B60J 5/04 (2006.01) E05F 11/54 (2006.01)**
[25] EN
[54] **VEHICLE DOOR INCLUDING PUSH BUTTON ACTUATOR**
[54] **PORTE DE VEHICULE COMPRENANT UN ACTIONNEUR A BOUTON POUSSOIR**
[72] KRAUS, KEVIN THOMAS, US
[72] DOCKENDORF, NATHAN RAY, US
[72] NEBEKER, BRYSON JAY, US
[71] REV AMBULANCE GROUP ORLANDO, INC., US
[71] TRIMARK CORPORATION, US
[22] 2022-01-25
[41] 2022-07-26
[30] US (63/141,517) 2021-01-26

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[21] **3,146,640**
[13] A1
[51] **Int.Cl. E21B 33/12 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PLUGGING AN OIL WELL**
[54] **SYSTEMES ET METHODES POUR BOUCHONNER UN PUITS DE PETROLE**
[72] BRANDSAL, VIGGO, NO
[72] AASHEIM, GEIR VALESTRAND, NO
[71] NINE DOWNHOLE TECHNOLOGIES, LLC, US
[22] 2022-01-25
[41] 2022-07-25
[30] US (63/199,786) 2021-01-25

[21] **3,146,647**
[13] A1
[51] **Int.Cl. C22C 38/04 (2006.01) C21D 8/02 (2006.01)**
[25] EN
[54] **COLD ROLLED STEEL SHEET**
[54] **TOLE D'ACIER LAMINE A FROID**
[72] YANG, DANIEL, CA
[72] CHO, SANG HYUN, CA
[71] ALGOMA STEEL INC., CA
[22] 2022-01-25
[41] 2022-07-29
[30] US (63/143,448) 2021-01-29

[21] **3,146,659**
[13] A1
[51] **Int.Cl. B60K 11/06 (2006.01) F16H 57/035 (2012.01) F01P 1/06 (2006.01) F16H 57/04 (2010.01)**
[25] EN
[54] **VEHICLE HAVING AN AIR-COOLED CONTINUOUSLY VARIABLE TRANSMISSION**
[54] **VEHICULE COMPORTANT UNE TRANSMISSION VARIABLE DE FACON CONTINUE REFROIDIE PAR AIR**
[72] LAROCHE, DAVID, CA
[72] BROUILLETTE, STEVE, CA
[72] GEOFFROY, CATHERINE, CA
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA
[22] 2022-01-25
[41] 2022-07-28
[30] US (63/142,645) 2021-01-28

[21] **3,146,664**
[13] A1
[51] **Int.Cl. A63C 5/00 (2006.01) A63C 9/00 (2012.01)**
[25] EN
[54] **SNOW SKI ASSEMBLIES**
[54] **ASSEMBLAGES DE SKIS**
[72] PFEIFER, JOHN, US
[72] MARNER, MICHAEL C., US
[71] J & M SPORTS ENTERPRISES LLC, US
[22] 2022-01-25
[41] 2022-07-25
[30] US (17/157,612) 2021-01-25

[21] **3,146,673**
[13] A1
[51] **Int.Cl. G06F 40/279 (2020.01) G06F 40/205 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR NATURAL LANGUAGES PROCESSING WITH PRETAINED LANGUAUAGE MODELS**
[54] **SYSTEME ET METHODE DE TRAITEMENT DES LANGUES NATURELLES A L'AIDE DE MODELES DE LANGAGE PREENTRAINES**
[72] EL ASRI, LAYLA, CA
[72] CHAKRABORTY, AISHIK, CA
[72] MEHRAN KAZEMI, SEYED, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-01-25
[41] 2022-07-25
[30] US (63/141,107) 2021-01-25

[21] **3,146,678**
[13] A1
[51] **Int.Cl. E04F 15/16 (2006.01) A47G 27/04 (2006.01) F16B 5/02 (2006.01) E04F 15/02 (2006.01)**
[25] EN
[54] **MODULAR FLOOR COVERING SYSTEM**
[54] **SYSTEME MODULAIRE DE REVETEMENT DE SOL**
[72] HENDIFAR, GABRIEL, US
[71] APPARATUS LLC, US
[22] 2022-01-26
[41] 2022-07-27
[30] US (63/142,025) 2021-01-27
[30] US (17/241,180) 2021-04-27
[30] US (17/464,767) 2021-09-02

[21] **3,146,686**
[13] A1
[51] **Int.Cl. H01M 50/583 (2021.01) H01M 50/296 (2021.01)**
[25] EN
[54] **BATTERY PACK**
[54] **BLOC-BATTERIE**
[72] HU, GUIWU, CN
[71] NANJING CHERVON INDUSTRY CO., LTD., CN
[22] 2022-01-25
[41] 2022-07-26
[30] CN (202110105015.4) 2021-01-26
[30] US (17/582,544) 2022-01-24

[21] **3,146,700**
[13] A1
[51] **Int.Cl. F24F 12/00 (2006.01) F25B 41/20 (2021.01) F24F 13/04 (2006.01) F25B 5/04 (2006.01) F25B 6/04 (2006.01) F25B 29/00 (2006.01)**
[25] EN
[54] **THERMODYNAMIC HEAT RECOVERY WITHOUT AN ADDITIONAL THERMODYNAMIC CIRCUIT**
[54] **RECUPERATION DE CHALEUR THERMODYNAMIQUE SANS CIRCUIT THERMODYNAMIQUE SUPPLEMENTAIRE**
[72] JOVET, BASTIEN, FR
[71] LGL FRANCE S.A.S., FR
[22] 2022-01-26
[41] 2022-07-27
[30] US (17/159,497) 2021-01-27

[21] **3,146,709**
[13] A1
[51] **Int.Cl. H04W 72/02 (2009.01) H04W 74/08 (2009.01)**
[25] EN
[54] **BEAM DETERMINATION PROCEDURES IN WIRELESS NETWORKS**
[54] **PROCEDE DE DETERMINATION DE FAISCEAU DANS LES RESEAUX SANS FIL**
[72] XU, KAI, US
[72] ZHOU, HUA, US
[72] DINAN, ESMAEL HEJAZI, US
[72] YI, YUNJUNG, US
[72] CIRIK, ALI CAGATAY, US
[72] JEON, HYOUNGSUK, US
[72] PARK, JONGHYUN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-01-25
[41] 2022-07-25
[30] US (63/141,090) 2021-01-25

[21] **3,146,725**
[13] A1
[51] **Int.Cl. E21B 19/22 (2006.01) E21B 23/14 (2006.01)**
[25] EN
[54] **COIL TUBING LATCH TOOL**
[54] **OUTIL DE TAQUET DE TUBE DE PRODUCTION CONCENTRIQUE**
[72] BOGUE, CHRISTOPHER, CA
[71] TITANIUM TUBING TECHNOLOGY LTD., CA
[22] 2022-01-26
[41] 2022-07-26
[30] US (63/141,589) 2021-01-26

[21] **3,146,739**
[13] A1
[51] **Int.Cl. C23C 4/134 (2016.01) C23C 4/10 (2016.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR FABRICATION OF SUSPENSION PLASMA SPRAYED TIB2 COATINGS**
[54] **METHODE ET SYSTEME POUR LA FABRICATION DE REVETEMENTS DE TIB2 PAR PROJECTION AU PLASMA EN SUSPENSION**
[72] ROUE, LIONEL, CA
[72] GUAY, DANIEL, CA
[72] YVENOU ETIENNE, CA
[72] MOREAU, CHRISTIAN, CA
[72] DOLATABADI, ALI, CA
[72] BILY, ALEXANDRE, CA
[72] ETTOUIL, FADHEL BEN, CA
[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[71] VALORBEC, SOCIETE EN COMMANDITE, CA
[22] 2022-01-26
[41] 2022-07-28
[30] US (63/199,846) 2021-01-28

[21] **3,146,762**
[13] A1
[51] **Int.Cl. H04L 61/5046 (2022.01) H04L 61/5092 (2022.01) H04L 69/28 (2022.01) H04L 61/5069 (2022.01)**
[25] FR
[54] **DETERMINATION PROCEDURE IF AN IP ADDRESS IS ASSIGNED TO A TERMINAL IN A COMMUNICATION NETWORK**
[54] **PROCEDE DE DETERMINATION SI UNE ADRESSE IP EST ATTRIBUEE A UN TERMINAL DANS UN RESEAU DE COMMUNICATION**
[72] ALARCON, LAURENT, FR
[71] SAGEMCOM BROADBAND SAS, FR
[22] 2022-01-26
[41] 2022-07-29
[30] FR (2100885) 2021-01-29

[21] **3,146,763**
[13] A1
[51] **Int.Cl. B63B 34/10 (2020.01) B63B 32/10 (2020.01) B63B 39/02 (2006.01)**
[25] EN
[54] **A PERSONAL HYDROFOIL WATERCRAFT WITH A CONTROLLABLY ADJUSTABLE CENTER OF GRAVITY**
[54] **EMBARCATION HYDROPTERE PERSONNELLE DISPOSANT D'UN CENTRE DE GRAVITE AJUSTABLE COMMANDE**
[72] CARINO, COSIMO DAMIANO, IT
[71] TRZECIESKI, MICHAEL, CA
[22] 2022-01-26
[41] 2022-07-27
[30] US (63142146) 2021-01-27

[21] **3,146,766**
[13] A1
[51] **Int.Cl. A63B 57/50 (2015.01) A63B 57/20 (2015.01) A63B 57/30 (2015.01) A63B 57/00 (2015.01)**
[25] EN
[54] **MULTI-FUNCTIONAL GOLF DIVOT REPAIR TOOL**
[54] **OUTIL DE REPARATION DE TOUFFE DE GAZON POLYVALENT POUR LE GOLF**
[72] GALACZ, ROBERT E., US
[72] GALACZ, COLLEEN M., US
[71] GOLFGADDIE LLC, US
[22] 2022-01-26
[41] 2022-07-27
[30] US (63/142,303) 2021-01-27
[30] US (17/579,881) 2022-01-20

[21] **3,146,816**
[13] A1
[51] **Int.Cl. H04N 19/112 (2014.01) H04N 19/146 (2014.01) H04N 19/172 (2014.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PROCESSING VIDEO**
[54] **METHODE ET APPAREIL DESTINES AU TRAITEMENT VIDEO**
[72] BUTTS, ROBERT O., US
[72] LEMMONS, CHRIS DAVID, US
[72] GRAY, JONATHAN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-01-27
[41] 2022-07-29
[30] US (17/248,575) 2021-01-29

[21] **3,146,825**
[13] A1
[51] **Int.Cl. B25F 1/02 (2006.01) B25B 15/02 (2006.01)**
[25] EN
[54] **MULTIPURPOSE AND MULTIFUNCTION SCREWDRIVER SYSTEMS**
[54] **SYSTEMES DE TOURNEVIS POLYVALENTS ET MULTIFONCTIONNELS**
[72] VASUDEVA, KAILASH, CA
[72] SINGH, SATNAM, CA
[71] MAXTECH CONSUMER PRODUCTS LTD., CA
[22] 2022-01-27
[41] 2022-07-27
[30] US (63/142,452) 2021-01-27

[21] **3,146,838**
[13] A1
[51] **Int.Cl. B65G 17/06 (2006.01) B65G 17/26 (2006.01) B65G 17/38 (2006.01)**
[25] EN
[54] **CHAIN CONVEYOR AND LINK FOR SAME**
[54] **CONVOYEUR A CHAINE ET MAILLON**
[72] HOOVER, JOSEPH DANIEL, US
[72] JOHANNINGSMEIER, GRANT WILLIAM, US
[72] VANDYK, DIRK JOHANNES, US
[72] STEWART, CHRISTOPHER GEORGE, US
[72] PATTERSON, BENJAMIN SCOTT, US
[71] JOY GLOBAL UNDERGROUND MINING LLC, US
[22] 2022-01-27
[41] 2022-07-28
[30] US (63/142,989) 2021-01-28
[30] US (63/159,652) 2021-03-11

[21] **3,146,847**
[13] A1
[51] **Int.Cl. C11D 1/72 (2006.01) C11D 3/30 (2006.01) C11D 3/33 (2006.01) C11D 3/43 (2006.01)**
[25] EN
[54] **ACIDIC CIP COMPOSITIONS**
[54] **COMPOSITIONS ACIDES**
[72] PURDY, CLAY, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD, CA
[22] 2022-01-27
[41] 2022-07-29
[30] CA (3,107,494) 2021-01-29

[21] **3,146,858**
[13] A1
[51] **Int.Cl. C23G 1/14 (2006.01) C11D 1/08 (2006.01) C11D 3/04 (2006.01) C11D 3/33 (2006.01)**
[25] EN
[54] **CAUSTIC CLEANING-IN-PLACE COMPOSITIONS**
[54] **COMPOSITIONS CAUSTIQUES DE NETTOYAGE SUR PLACE**
[72] PURDY, CLAY, CA
[72] WEISSENBERGER, MARKUS, CA
[72] ABDELFATAH, ELSAYED, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2022-01-27
[41] 2022-07-29
[30] CA (3,107,496) 2021-01-29

[21] **3,146,870**
[13] A1
[51] **Int.Cl. F21V 29/77 (2015.01) F21V 29/83 (2015.01) F21K 9/00 (2016.01) F21V 17/16 (2006.01)**
[25] EN
[54] **HEAT SINK FOR LUMINAIRE AND LUMINAIRE ARRANGEMENTS HAVING A HEAT SINK**
[54] **DISSIPATEUR DE CHALEUR POUR UN APPAREIL D'ECLAIRAGE ET CONFIGURATIONS D'APPAREIL D'ECLAIRAGE COMPRENANT UN DISSIPATEUR DE CHALEUR**
[72] TRUBLOWSKI, JOHN, US
[72] STAHL, LUCAS, US
[72] SANTIAGO, JEREMY, US
[72] RING, CHRISTOPHER, US
[72] JAYAWARDENA, ADIKARAMGE, US
[72] PERERA, UKWATTE LOKULIYANAGE INDIKA UPENDRA, US
[72] NARENDRAN, NADARAJAH, US
[72] MEHTA, NILAY, US
[72] FREYSSINIER, JEAN PAUL, US
[71] EATON INTELLIGENT POWER LIMITED, IE
[71] RENSSELAER POLYTECHNIC INSTITUTE, US
[22] 2022-01-27
[41] 2022-07-29
[30] US (63/143242) 2021-01-29

[21] **3,146,904**
[13] A1
[51] **Int.Cl. B21D 22/04 (2006.01) B21D 22/06 (2006.01) B21D 53/00 (2006.01)**
[25] EN
[54] **FINE CUTTING PROCESS FOR THE PRODUCTION OF A SEAT SLIDE ADJUSTMENT RAIL**
[54] **PROCEDE DE FINE COUPE POUR LA PRODUCTION D'UN RAIL D'AJUSTEMENT DE SIEGE PAR GLISSEMENT**
[72] ERHARDT, JURGEN, DE
[71] FIRMA KOKINETICS GMBH, DE
[22] 2022-01-27
[41] 2022-07-28
[30] DE (10 2021 101 969.9) 2021-01-28

[21] **3,146,905**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06N 3/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MACHINE LEARNING ARCHITECTURE FOR OUT-OF-DISTRIBUTION DATA DETECTION**
[54] **SYSTEME ET METHODE POUR L'ARCHITECTURE D'APPRENTISSAGE POUR LA DETECTION DE DONNEES HORS DISTRIBUTION**
[72] WU, GA, CA
[72] JAWANDHA, ANMOL SINGH, CA
[72] SRINIVASA, CHRISTOPHER COTE, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-01-27
[41] 2022-07-27
[30] US (63/142,201) 2021-01-27

[21] **3,146,936**
[13] A1
[51] **Int.Cl. G08B 31/00 (2006.01) G08B 27/00 (2006.01) G10L 15/183 (2013.01) H04W 4/90 (2018.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATED SECURITY EVENT TRACKING AND LOGGING BASED ON CLOSED LOOP RADIO COMMUNICATIONS**
[54] **SYSTEME ET METHODE DE SUIVI ET D'ENREGISTREMENT D'UN EVENEMENT RELATIF A LA SECURITE EN FONCTION DE RADIOCOMMUNICATIONS EN BOUCLE FERMEE**
[72] MILLAR, JONATHAN TAYLOR, CA
[72] CAMERON, JAMES ALLAN DOUGLAS, CA
[72] CARLE, MATTHEW AARON ROGERS, CA
[71] PATRIOT ONE TECHNOLOGIES INC., CA
[22] 2022-01-27
[41] 2022-07-27
[30] US (63/141,998) 2021-01-27

[21] **3,146,938**
[13] A1
[51] **Int.Cl. G06Q 20/38 (2012.01) G06F 16/95 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SECURE WEB SERVICE ACCESS CONTROL**
[54] **SYSTEME ET METHODE DE CONTROLE D'ACCES SECURISE A UN SERVICE WEB**
[72] BADAL-BADALIAN, ARNOLD, CA
[72] BAEK, SEUNG BONG, CA
[72] IMAM, SYED AHMAR, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2022-01-26
[41] 2022-07-26
[30] US (63/141,726) 2021-01-26

[21] **3,146,942**
[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01) G06N 10/00 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR QUANTUM KEY DISTRIBUTION**
[54] **METHODE ET SYSTEME DE DISTRIBUTION DE CLE QUANTIQUE**
[72] KRONBERG, DMITRY, CH
[71] TERRA QUANTUM AG, CH
[22] 2022-01-27
[41] 2022-07-27
[30] EP (21153846.7) 2021-01-27

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[21] **3,146,946**
[13] A1
[51] **Int.Cl. A62D 1/00 (2006.01)**
[25] EN
[54] **FIRE SUPPRESSING COMPOSITIONS**
[54] **COMPOSITIONS D'EXTINCTION D'INCENDIE**
[72] HODGEN, ZACKERY MICHAEL, CA
[72] HYNDMAN, DAVID JOHN, CA
[72] DUPLESSIS, SAMUEL, CA
[71] FIREREIN INC., CA
[22] 2022-01-27
[41] 2022-07-29
[30] US (63/143069) 2021-01-29

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[21] **3,146,955**
[13] A1
[51] **Int.Cl. F42B 7/00 (2006.01) F42B 7/04 (2006.01)**
[25] EN
[54] **MULTI-FACETED SHOT**
[54] **PROJECTILE A PLUSIEURS FACETTES**
[72] SCHROEDER, MATTHEW S., US
[72] MOSER, ADAM J., US
[72] GOODLIN, DREW L., US
[72] CARLSON, ERIK K., US
[71] VISTA OUTDOOR OPERATIONS LLC, US
[22] 2022-01-28
[41] 2022-07-29
[30] US (17/162,848) 2021-01-29

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[21] **3,146,956**
[13] A1
[51] **Int.Cl. H04N 21/258 (2011.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING SECONDARY CONTENT**
[54] **SYSTEMES ET METHODES DE DETERMINATION DE CONTENU SECONDAIRE**
[72] TAMBURRO, ALESSIO, US
[72] KRISHNAN, MEENAKSHI SUNDARAM BAGAVATHI, US
[72] GUNNU, VENKATA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2022-01-28
[41] 2022-07-28
[30] US (17/248,539) 2021-01-28

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[21] **3,146,957**
[13] A1
[51] **Int.Cl. E02D 27/40 (2006.01)**
[25] EN
[54] **PREFABRICATED, MODULAR HYDROPOWER FOUNDATION SYSTEM FOR SOIL CONDITIONS**
[54] **SYSTEME DE FONDATION HYDROELECTRIQUE MODULAIRE PREFABRIQUE POUR LES CONDITIONS DU SOL**
[72] COX, CHAD, US
[72] WANG, BIN, US
[72] DUQUETTE, DAVID, US
[72] MATHATHIA, ALEX, US
[71] LITTORAL POWER SYSTEMS, INC., US
[22] 2022-01-28
[41] 2022-07-29
[30] US (63/143,328) 2021-01-29

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[21] **3,146,960**
[13] A1
[51] **Int.Cl. C09D 103/02 (2006.01) C09D 5/00 (2006.01) D21H 21/14 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING A COATED CELLULOSIC SUBSTRATE AND A COATED CELLULOSIC SUBSTRATE**
[54] **METHODE DE FABRICATION D'UN SUBSTRAT CELLULOSIQUE REVETU, ET SUBSTRAT CELLULOSIQUE REVETU**
[72] BENSON, JOHN D., US
[72] SIEGLING, CHARLES CASIMIR, III, US
[71] WESTROCK SHARED SERVICES, LLC, US
[22] 2022-01-28
[41] 2022-07-29
[30] US (63/143112) 2021-01-29

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[21] **3,146,999**
[13] A1
[51] **Int.Cl. G09B 19/00 (2006.01) H02G 7/00 (2006.01) H02G 9/00 (2006.01)**
[25] EN
[54] **EQUIPOTENTIAL ZONE (EPZ) GROUNDING TRAINING LAB**
[54] **LABORATOIRE D'ENTRAINEMENT DE MISE A LA MASSE D'UNE ZONE EQUIPOTENTIELLE (EPZ)**
[72] GROVES, MARK JAMES, US
[72] CORIELL, DEAN, US
[72] WILEY, JOSEPH, US
[72] CARRILLO, PHILLIP LEE, US
[72] HOWELL, AARON, US
[72] GROVES, OLE JAMES, US
[72] PEREZ, JOHN MICHAEL, US
[72] COMPHER, MATTHEW CLAYTON, US
[71] GRID MANUFACTURING CORPORATION, US
[22] 2022-01-28
[41] 2022-07-29
[30] US (63/143,384) 2021-01-29

[21] **3,147,046**
[13] A1
[51] **Int.Cl. C11B 1/10 (2006.01) A61K 36/185 (2006.01) B01D 11/02 (2006.01)**
[25] EN
[54] **LIQUID CARBON DIOXIDE AND COSOLVENT BIOMASS EXTRACTION METHOD AND SYSTEM**
[54] **METHODE ET SYSTEME D'EXTRACTION DE BIOMASSE A DIOXYDE DE CARBONE LIQUIDE ET COSOLVANT**
[72] SEABROOK, JAMES ANTHONY, CA
[72] DAYARAM, KIRAN, CA
[72] MARTIN, SPENCER HUGH, CA
[72] BROWN, RAYMOND LYLE, CA
[72] DEMERS, SEAN CAMERON, CA
[71] VITALIS EXTRACTION TECHNOLOGY INC., CA
[22] 2022-01-28
[41] 2022-07-29
[30] US (63/143,284) 2021-01-29

[21] **3,147,062**
[13] A1
[51] **Int.Cl. G01R 29/08 (2006.01)**
[25] EN
[54] **MONITORING, ANALYZING AND GENERATING RADIO FREQUENCY (RF) ENVIRONMENTS UTILIZING DISTRIBUTED DEVICES**
[54] **SURVEILLANCE, ANALYSE ET GENERATION D'ENVIRONNEMENTS DE RADIOFREQUENCE (RF) AU MOYEN DE SERVICES DISTRIBUES**
[72] PICKARD, MARK WILLIAM, US
[72] ROZNER, MARVIN JOHN, US
[72] REYNOLDS, ANDREW BRYAN, US
[72] CHISHAM, STEVEN ALLAN, US
[72] BERNIER, STEVE JOHN JOSEPH, CA
[71] VIAVI SOLUTIONS INC., US
[22] 2022-01-28
[41] 2022-07-29
[30] US (63/143,475) 2021-01-29

[21] **3,147,073**
[13] A1
[51] **Int.Cl. B65D 81/00 (2006.01) A01M 31/00 (2006.01) B65D 30/04 (2006.01) B65D 33/06 (2006.01) B65D 85/00 (2006.01)**
[25] EN
[54] **GAME BAG WITH HANDLING STRUCTURE**
[54] **SAC A GIBIER AVEC STRUCTURE DE MANIPULATION**
[72] SESSIONS, TROY RAY, US
[72] SESSIONS, LINDA GAIL, US
[71] SESSIONS, TROY RAY, US
[71] SESSIONS, LINDA GAIL, US
[22] 2022-01-28
[41] 2022-07-28
[30] US (63/142925) 2021-01-28

[21] **3,147,185**
[13] A1
[51] **Int.Cl. G09F 7/18 (2006.01) F16M 13/02 (2006.01)**
[25] EN
[54] **DISPLAY CLIP MOUNTING MEMBER**
[54] **ELEMENT DE MONTAGE EN FORME DE PINCE DE PRESENTOIR**
[72] PATERNOSTRE, JOEP, US
[71] PATERNOSTRE, JOEP, US
[22] 2022-01-28
[41] 2022-07-29
[30] US (63/143777) 2021-01-29

[21] **3,147,273**
[13] A1
[51] **Int.Cl. G01R 33/3815 (2006.01)**
[25] EN
[54] **MAGNETIC RESONANCE IMAGING SYSTEM AND METHOD FOR RAPID SHUTDOWN AND RECHARGE OF A SUPERCONDUCTING MAGNET**
[54] **SYSTEME D'IMAGERIE PAR RESONANCE MAGNETIQUE ET METHODE D'ARRET ET DE RECHARGE RAPIDES D'UN AIMANT SUPRACONDUCTEUR**
[72] STAINSBY, JEFF ALAN, CA
[72] HARRIS, CHAD TYLER, CA
[72] PANTHER, ALEXANDER GYLES, CA
[71] SYNAPTIVE MEDICAL INC., CA
[22] 2022-01-28
[41] 2022-07-29
[30] US (17/162,051) 2021-01-29

[21] **3,148,203**
[13] A1
[51] **Int.Cl. E04B 1/343 (2006.01) E04B 1/19 (2006.01)**
[25] EN
[54] **STEEL AND CONCRETE BUILDING MODULE AND CONNECTIONS**
[54] **MODULE DE CONSTRUCTION D'ACIER ET DE BETON ET RACCORDS**
[72] ZEMRAU, GREGORY, CA
[71] EMERGE MODULAR LTD., CA
[22] 2022-01-26
[41] 2022-07-26
[30] CA (3107029) 2021-01-26

[21] **3,149,912**
[13] A1
[51] **Int.Cl. G21C 19/20 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATED CALANDRIA TUBE INSTALLATION**
[54] **SYSTEME ET METHODE D'INSTALLATION AUTOMATISEE DE TUBE DE CUVE**
[72] MORIKAWA, DAVID TARO, CA
[72] WONG, MATTHEW, CA
[72] JOHANNESSON, MARK, CA
[71] ATS AUTOMATION TOOLING SYSTEMS INC., CA
[22] 2022-02-23
[41] 2022-07-25
[30] US (63/152,823) 2021-02-23
[30] US (63/168,714) 2021-03-31
[30] US (63/168,690) 2021-03-31

[21] **3,155,408**
[13] A1
[51] **Int.Cl. A45F 3/04 (2006.01) B65F 1/00 (2006.01) B65F 1/16 (2006.01)**
[25] EN
[54] **WEARABLE REFUSE COLLECTION RECEPTACLE**
[54] **CONTENANT DE COLLECTE DE DECHETS A PORTER**
[72] LEINSTER, KATHRYN ELIZABETH, CA
[71] OPERATION LITTER RIDDER INC., CA
[22] 2022-04-14
[41] 2022-07-29

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[21] **3,157,865**
[13] A1
[51] **Int.Cl. C12N 5/04 (2006.01) A23L 33/105 (2016.01) A01H 6/28 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A01N 25/32 (2006.01) A61K 36/185 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01) D01C 1/02 (2006.01)**
[25] EN
[54] **HEMP PLANT NAMED 'EM15B2A170'**
[54] **PLANT DE CHANVRE NOMME EM15B2A170**
[72] CAMPBELL, BRIAN, US
[71] CHARLOTTE'S WEB, INC., US
[22] 2022-05-06
[41] 2022-07-25

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[21] **3,158,805**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) E21B 43/32 (2006.01) E21B 43/27 (2006.01)**
[25] EN
[54] **REGULATING FLOW AND CONTROLLING WATER ACIDIFICATION WELL COMPLETION DEVICE FOR OIL AND GAS WELL AND USE METHOD THEREOF**
[54] **DISPOSITIF DE COMPLETION DE PUITS DE PETROLE ET DE GAZ A REGULATION DE DEBIT ET DE L'ACIDIFICATION HYDRIQUE ET METHODE D'UTILISATION CONNEXE**
[72] CHEN, YANHONG, CN
[71] BEIJING CONOVA-TECH CO., LTD., CN
[22] 2022-05-09
[41] 2022-07-27
[30] CN (PCT/CN2021/107380) 2021-07-20

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,120,117**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) A23L 33/10 (2016.01) A23L 33/105 (2016.01) A61K 36/185 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR PREVENTING AND TREATING INFLAMMATION, PREPARATION METHOD AND USE THEREOF**
[54] **COMPOSES POUR PREVENIR ET TRAITER L'INFLAMMATION, METHODE DE PREPARATION ET UTILISATION**
[72] CHEN, HUIQIN, CN
[72] DAI, HAOFU, CN
[72] MEI, WENLI, CN
[72] DONG, WENHUA, CN
[72] YANG, LI, CN
[72] WEI, YANMEI, CN
[71] INSTITUTE OF TROPICAL BIOSCIENCE AND BIOTECHNOLOGY, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES, CN
[85] 2021-05-28
[86] 2021-03-30 (PCT/CN2021/083891)
[87] (3120117)
[30] CN (202110113002.1) 2021-01-27

[21] **3,128,918**
[13] A1
[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **FRACTURING DEVICE**
[54] **DISPOSITIF DE FRACTURATION**
[72] ZHANG, PENG, CN
[72] ZHANG, RIKUI, CN
[72] LV, LIANG, CN
[72] JI, XIAOLEI, CN
[72] LAN, CHUNQIANG, CN
[72] WU, YIPENG, CN
[72] LI, XINCHENG, CN
[72] SUN, YUXUAN, CN
[71] YANTAI JEREH PETROLEUM EQUIPMENT & TECHNOLOGIES CO., LTD., CN
[85] 2021-08-05
[86] 2021-06-02 (PCT/CN2021/097944)
[87] (3128918)
[30] CN (202110101567.8) 2021-01-26

[21] **3,130,786**
[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) A61N 7/00 (2006.01)**
[25] EN
[54] **BODY-WEARABLE APPARATUS FOR TREATING PAIN BY PRINCIPLE OF COMPLEX PHOTO-BIOCHEMICAL ACTIONS**
[54] **APPAREIL A PORTER SUR LE CORPS POUR TRAITER LA DOULEUR PAR LE PRINCIPE D'ACTIVITES PHOTO-BIOCHIMIQUES COMPLEXES**
[72] LEE, SUNG-WON, KR
[72] CHANG, SANG-HYUN, KR
[71] WELLSCARE CO., LTD, KR
[85] 2021-09-14
[86] 2021-01-27 (PCT/KR2021/001074)
[87] (3130786)
[30] KR (10-2021-0010432) 2021-01-25

[21] **3,151,155**
[13] A1
[51] **Int.Cl. G16H 20/00 (2018.01) G16H 50/30 (2018.01) A61B 5/00 (2006.01)**
[25] EN
[54] **CLUSTER-BASED SLEEP ANALYSIS**
[54] **ANALYSE DU SOMMEIL FONDE SUR LES GRAPPES**
[72] KOKOSZKA, ALICIA YOLANDA, US
[72] STATAN, ALEXANDER, US
[72] GLEICHAUF, KARLA THERESA, US
[71] FITBIT LLC, US
[85] 2022-03-03
[86] 2022-01-28 (PCT/US2022/014235)
[87] (3151155)
[30] US (17/162,286) 2021-01-29

[21] **3,156,252**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61K 9/19 (2006.01) A61K 35/76 (2015.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/165 (2006.01) C12N 7/01 (2006.01) C12N 15/50 (2006.01) C12N 15/861 (2006.01)**
[25] EN
[54] **AGENT FOR INDUCING SPECIFIC IMMUNITY AGAINST SEVERE ACUTE RESPIRATORY SYNDROME VIRUS SARS-COV-2 IN LYOPHILIZED FORM (VARIANTS)**
[54] **AGENT POUR INDUIRE L'IMMUNITE SPECIFIQUE CONTRE LE VIRUS DU SYNDROME RESPIRATOIRE AIGU SEVERE (SRAS-COV-2) EN FORME LYOPHILISEE (VARIANTS)**
[72] ZUBKOVA, OLGA VADIMOVNA, RU
[72] OZHAROVSKAIA, TATIANA ANDREEVNA, RU
[72] DOLZHIKOVA, INNA VADIMOVNA, RU
[72] POPOVA, OLGA, RU
[72] SHCHEBLIAKOV, DMITRII VIKTOROVICH, RU
[72] GROUSOVA, DARIA MIKHAILOVNA, RU
[72] DZHARULLAEVA, ALINA SHAHMIROVNA, RU
[72] TUKHVATULIN, AMIR

ILDAROVICH, RU
[72] TUKHVATULINA, NATALIA MIKHAILOVNA, RU
[72] SHCHERBININ, DMITRII NIKOLAEVICH, RU
[72] ESMAGAMBETOV, ILIAS BULATOVICH, RU
[72] TOKARSKAYA, ELIZAVETA ALEXANDROVNA, RU
[72] BOTIKOV, ANDREI GENNADEVICH, RU
[72] EROXOVA, ALINA SERGEEVNA, RU
[72] IZHAEVA, FATIMA MAGOMETOVNA, RU
[72] NIKITENKO, NATALYA ANATOLEVNA, RU
[72] LUBENETS, NADEZHDA LEONIDOVNA, RU
[72] SEMIKHIN, ALEKSANDR SERGEEVICH, RU
[72] BORISEVICH, SERGEY VLADIMIROVICH, RU
[72] NARODITSKY, BORIS SAVELIEVICH, RU
[72] LOGUNOV, DENIS YURYEVICH, RU
[72] GINTSBURG, ALEKSANDR LEONIDOVICH, RU
[71] FEDERAL STATE BUDGETARY INSTITUTION "NATIONAL RESEARCH CENTRE FOR EPIDEMIOLOGY AND MICROBIOLOGY NAMED AFTER THE HONORARY ACADEMICIAN N.F. GAMALEYA" OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION, RU
[85] 2022-04-06
[86] 2021-04-30 (PCT/RU2021/000182)
[87] (3156252)
[30] RU (2021103101) 2021-02-10

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[21] **3,156,456**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 35/76 (2015.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 14/165 (2006.01) C12N 15/34 (2006.01) C12N 15/50 (2006.01) C12N 15/861 (2006.01)**
[25] EN
[54] **THE USE OF THE AGENT FOR INDUCTION OF SPECIFIC IMMUNITY AGAINST SEVERE ACUTE RESPIRATORY SYNDROME VIRUS SARS-COV-2 FOR REVACCINATION OF POPULATION (VARIANTS)**
[54] **UTILISATION DE L'AGENT POUR L'INDUCTION DE L'IMMUNITE SPECIFIQUE CONTRE LE VIRUS DU SYNDROME RESPIRATOIRE AIGU SEVERE (SRAS-COV-2) AUX FINS DE REVACCINATION DE LA POPULATION (VARIANTS)**
[72] ZUBKOVA, OLGA VADIMOVNA, RU
[72] OZHAROVSKAIA, TATIANA ANDREEVNA, RU
[72] DOLZHIKOVA, INNA VADIMOVNA, RU
[72] POPOVA, OLGA, RU
[72] SHCHEBLIAKOV, DMITRII VIKTOROVICH, RU
[72] GROUSOVA, DARIA MIKHAILOVNA, RU
[72] TUKHVATULIN, AMIR ILDAROVICH, RU
[72] TUKHVATULINA, NATALIA MIKHAILOVNA, RU
[72] TOKARSKAYA, ELIZAVETA ALEXANDROVNA, RU
[72] BOTIKOV, ANDREI GENNADEVICH, RU
[72] EROXOVA, ALINA SERGEEVNA, RU
[72] IZHAEVA, FATIMA MAGOMETOVNA, RU
[72] NIKITENKO, NATALYA ANATOLEVNA, RU
[72] LUBENETS, NADEZHDA LEONIDOVNA, RU
[72] SEMIKHIN, ALEKSANDR SERGEEVICH, RU
[72] CHERNETSOV, VLADIMIR ALEKSANDROVICH, RU
[72] KRIUKOV, EVGENII VLADIMIROVICH, RU
[72] BABIRA, VALDIMIR FEDOROVICH, RU
[72] KUTAEV, DMITRII ANATOLEVICH, RU
[72] LOGINOVA, SVETLANA IAKOVLEVNA, RU
[72] NARODITSKY, BORIS SAVELIEVICH, RU
[72] LOGUNOV, DENIS YURYEVICH, RU
[72] DZHARULLAEVA, ALINA SHAHMIROVNA, RU
[72] SHCHERBININ, DMITRII NIKOLAEVICH, RU
[72] ESMAGAMBETOV, ILIAS BULATOVICH, RU
[72] GINTSBURG, ALEKSANDR LEONIDOVICH, RU
[71] FEDERAL STATE BUDGETARY INSTITUTION "NATIONAL RESEARCH CENTRE FOR EPIDEMIOLOGY AND MICROBIOLOGY NAMED AFTER THE HONORARY ACADEMICIAN N.F. GAMALEYA" OF THE MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION, RU
[85] 2022-04-06
[86] 2022-02-18 (PCT/RU2022/000046)
[87] (3156456)
[30] RU (2021104437) 2021-02-21

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[21] **3,159,458**
[13] A1
[51] **Int.Cl. B05B 11/00 (2006.01) B65D 83/42 (2006.01) B65D 83/66 (2006.01) B65D 83/68 (2006.01)**
[25] EN
[54] **A FILLABLE AEROSOL CONTAINER**
[54] **RECIPIENT D'AEROSOL REMPLISSABLE**
[72] ONG, YOKE EN, MY
[71] ORIENTUS INDUSTRY SDN BHD, MY
[85] 2022-05-25
[86] 2020-01-10 (PCT/MY2020/050003)
[87] (WO2021/107754)
[30] MY (PI 2019006940) 2019-11-26

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[21] **3,159,475**
[13] A1
[51] **Int.Cl. C12N 5/078 (2010.01)**
[25] EN
[54] **METABOLISM GUIDES DEFINITIVE LINEAGE SPECIFICATION DURING ENDOTHELIAL TO HEMATOPOIETIC TRANSITION**
[54] **SPECIFICATION DE LIGNEE DEFINITIVE DE GUIDES DE METABOLISME PENDANT UNE TRANSITION D'ENDOTHELIALE A HEMATOPOIETIQUE**
[72] WOODS, NILS-BJARNE, SE
[72] OBUROGLU, LEAL, SE
[71] CIPO, CA
[71] AMNIOTICS AB, SE
[85] 2022-05-25
[86] 2020-11-27 (PCT/SE2020/051139)
[87] (WO2021/107855)
[30] SE (1930385-8) 2019-11-28
[30] SE (2030046-3) 2020-02-12

[21] **3,159,488**
[13] A1
[51] **Int.Cl. G01N 33/543 (2006.01) G01N 33/487 (2006.01)**
[25] EN
[54] **METHOD, MEASURING DEVICE, COMPUTER PROGRAM, COMPUTER PROGRAM-PRODUCT, AND TEST-DEVICE SERIES FOR MEASURING A SAMPLE, AND A DATA STRUCTURE AND DATA STRUCTURE RECORD AND METHOD FOR CALIBRATING A TEST-DEVICE BATC**
[54] **PROCEDE, DISPOSITIF DE MESURE, PROGRAMME INFORMATIQUE, PRODUIT DE PROGRAMME INFORMATIQUE ET SERIE DE DISPOSITIFS DE TEST POUR MESURER UN ECHANTILLON, AINSI QUE STRUCTURE DE DONNEES ET ENREGISTREMENT DE STRUCTURE DE DONNEES, ET PROCEDE D'ETALONNAGE D'UN LOT DE DISPOSITIFS DE TES**
[72] LAITINEN, MIKA, FI
[72] SAVONEN, MARKUS, FI
[71] MAGNASENSE TECHNOLOGIES OY, FI
[85] 2022-05-25
[86] 2020-11-30 (PCT/FI2020/050807)
[87] (WO2021/105570)
[30] FI (20196031) 2019-11-28

[21] **3,159,495**
[13] A1
[51] **Int.Cl. G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONSTRUCTING A THREE-DIMENSIONAL MODEL FROM TWO-DIMENSIONAL IMAGES**
[54] **SYSTEMES ET PROCEDES DE CONSTRUCTION D'UN MODELE TRIDIMENSIONNEL A PARTIR D'IMAGES BIDIMENSIONNELLES**
[72] KATZMAN, JORDAN, US
[72] YANCEY, CHRISTOPHER, US
[72] WUCHER, TIM, US
[71] SDC U.S. SMILEPAY SPV, US
[85] 2022-05-25
[86] 2020-11-25 (PCT/US2020/070820)
[87] (WO2021/108807)
[30] US (16/696,468) 2019-11-26

[21] **3,159,497**
[13] A1
[51] **Int.Cl. C07F 17/00 (2006.01) C08F 2/04 (2006.01) C08F 4/646 (2006.01) C08F 4/659 (2006.01) C08F 4/6592 (2006.01) C08F 110/02 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **TRANSITION METAL COMPOUND, CATALYST COMPOSITION COMPRISING SAME, AND METHOD FOR PRODUCING OLEFIN POLYMER USING CATALYST COMPOSITION**
[54] **COMPOSE DE METAL DE TRANSITION, COMPOSITION DE CATALYSEUR LE COMPRENANT, ET PROCEDE DE PRODUCTION DE POLYMERE D'OLEFINE A L'AIDE DE LA COMPOSITION DE CATALYSEUR**
[72] SHIN, DONGCHEOL, KR
[72] OH, YEONOCK, KR
[72] KIM, MINJI, KR
[72] KIM, MIJI, KR
[72] CHEONG, SANG BAE, KR
[72] PARK, DONGKYU, KR
[72] SHIM, CHOON SIK, KR
[72] JEON, MINHO, KR
[72] SHIN, DAE HO, KR
[71] SABIC SK NEXLENE COMPANY PTE. LTD., SG
[85] 2022-05-25
[86] 2020-12-01 (PCT/IB2020/061300)
[87] (WO2021/111282)
[30] KR (10-2019-0159015) 2019-12-03
[30] KR (10-2020-0164792) 2020-11-30

[21] **3,159,500**
[13] A1
[51] **Int.Cl. H02S 20/00 (2014.01) H02S 20/20 (2014.01) H02S 20/23 (2014.01) H02S 20/24 (2014.01) H02S 20/25 (2014.01) H02S 20/30 (2014.01)**
[25] EN
[54] **ROOF INTEGRATED PHOTOVOLTAIC MODULE WITH SPACER**
[54] **MODULE PHOTOVOLTAIQUE INTEGRE A UN TOIT AYANT UN ELEMENT D'ESPACEMENT**
[72] SIRSKI, WILLIAM, US
[72] NGUYEN, THIERRY, US
[71] GAF ENERGY LLC, US
[85] 2022-05-25
[86] 2020-11-24 (PCT/US2020/062010)
[87] (WO2021/108403)
[30] US (62/941,240) 2019-11-27

[21] **3,159,501**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) C12N 9/00 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **METHODS OF SYNTHESIZING RNA MOLECULES**
[54] **PROCEDES DE SYNTHESE DE MOLECULES D'ARN**
[72] CAFFERTY, BRIAN JOSEPH, US
[72] MUNZER, JON SCOTT, US
[72] JAYARAMAN, MUTHUSAMY, US
[72] DAS, RAJAT SUBHRA, US
[71] CRISPR THERAPEUTICS AG, CH
[71] BAYER HEALTHCARE LLC, US
[85] 2022-05-25
[86] 2020-11-25 (PCT/US2020/062342)
[87] (WO2021/108647)
[30] US (62/941,174) 2019-11-27

[21] **3,159,508**
[13] A1
[51] **Int.Cl. A01K 47/00 (2006.01) A01K 47/06 (2006.01)**
[25] EN
[54] **MODULAR HOUSING STRUCTURE FOR SOLITARY BEES**
[54] **STRUCTURE DE LOGEMENT MODULAIRE POUR ABEILLES SOLITAIRES**
[72] TUSCH, RICHARD JOHN PIERRE, CA
[72] TUSCH, WILLIAM LOUIS, CA
[71] TUSCH, RICHARD JOHN PIERRE, CA
[71] TUSCH, WILLIAM LOUIS, CA
[85] 2022-05-25
[86] 2020-11-27 (PCT/CA2020/051627)
[87] (WO2021/102584)
[30] US (62/941,169) 2019-11-27

[21] **3,159,509**
[13] A1
[51] **Int.Cl. G01M 3/02 (2006.01) A23L 3/015 (2006.01) F16J 12/00 (2006.01) F16J 13/00 (2006.01) G01M 3/18 (2006.01) G01M 3/40 (2006.01)**
[25] EN
[54] **DEVICE FOR DETECTING BREAKAGES IN HIGH-PRESSURE PROCESSING BAGS**
[54] **DISPOSITIF POUR LA DETECTION DE COUPURES SUR DES SACS DE TRAITEMENT PAR HAUTES PRESSIONS**
[72] LOPEZ ONDEVILLA, RAUL, ES
[72] RUIZ ROMAN, CIRO, ES
[72] TARRAGO MINGO, SANTIAGO, ES
[72] HERNANDO SAIZ, ANDRES FELIPE, ES
[72] HERNANDO SAIZ, FRANCISCO JAVIER, ES
[71] HIPERBARIC, S.A., ES
[85] 2022-05-25
[86] 2019-11-26 (PCT/ES2019/070804)
[87] (WO2021/105525)

[21] **3,159,515**
[13] A1
[51] **Int.Cl. A61K 45/06 (2006.01) C12N 15/113 (2010.01) C07K 14/715 (2006.01)**
[25] EN
[54] **TREATMENT OF LOWER AIRWAYS DISORDERS**
[54] **TRAITEMENT DES VOIES RESPIRATOIRES INFERIEURES**
[72] BARANOWSKI, LYN A., US
[72] LORTIE, BRIAN A., US
[72] BISHOP, JAMES P., US
[72] KILGORE, KENNETH S., US
[72] SYMONDS, WILLIAM T., US
[72] WRING, STEPHEN A., US
[72] HASTEDT, JAYNE E., US
[72] CRIZER, KATELYN R., US
[72] PALACIOS, MICHELLE, US
[71] ROIVANT SCIENCES GMBH, CH
[71] BARANOWSKI, LYN A., US
[71] LORTIE, BRIAN A., US
[71] BISHOP, JAMES P., US
[71] KILGORE, KENNETH S., US
[71] SYMONDS, WILLIAM T., US
[71] WRING, STEPHEN A., US
[71] HASTEDT, JAYNE E., US
[71] CRIZER, KATELYN R., US
[71] PALACIOS, MICHELLE, US
[85] 2022-05-25
[86] 2020-12-02 (PCT/US2020/062853)
[87] (WO2021/113334)
[30] US (62/942,424) 2019-12-02
[30] US (62/985,167) 2020-03-04
[30] US (63/106,097) 2020-10-27

[21] **3,159,516**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **MICRODYSTROPHIN GENE THERAPY CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS DE THERAPIE GENIQUE DE LA MICRODYSTROPHINE ET LEURS UTILISATIONS**
[72] QIAO, CHUNPING, US
[72] MCDOUGALD, DEVIN, US
[72] LIU, YE, US
[72] DANOS, OLIVIER, US
[71] REGENXBIO INC., US
[85] 2022-05-25
[86] 2020-11-27 (PCT/US2020/062484)
[87] (WO2021/108755)
[30] US (62/941,719) 2019-11-28
[30] US (63/024,933) 2020-05-14

[21] **3,159,518**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01)**
[25] EN
[54] **METHODS OF REPROGRAMMING A CELL**
[54] **PROCEDES DE REPROGRAMMATION D'UNE CELLULE**
[72] LISTER, RYAN, AU
[72] BUCKBERRY, SAM, AU
[72] POLO, JOSE, AU
[72] LIU, XIAODONG, AU
[71] THE UNIVERSITY OF WESTERN AUSTRALIA, AU
[71] MONASH UNIVERSITY, AU
[85] 2022-05-25
[86] 2019-11-26 (PCT/AU2019/051296)
[87] (WO2021/102500)

[21] **3,159,521**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 25/02 (2006.01) A61P 25/04 (2006.01) A61P 29/02 (2006.01)**
[25] EN
[54] **TRPV1 EPITOPES AND ANTIBODIES**
[54] **EPITOPES DE TRPV1 ET ANTICORPS**
[72] TRKULJA, CAROLINA, SE
[72] DAVIDSON, MAX, SE
[72] ORWAR, OWE, SE
[71] OBLIQUE THERAPEUTICS AB, SE
[85] 2022-05-25
[86] 2020-12-10 (PCT/EP2020/085629)
[87] (WO2021/116341)
[30] GB (1918103.1) 2019-12-10

[21] **3,159,523**
[13] A1
[51] **Int.Cl. E21B 31/20 (2006.01) E21B 31/12 (2006.01)**
[25] EN
[54] **RELEASABLE RETRIEVING TOOL WITH LUG AND SLOT CONNECTION**
[54] **OUTIL D'EXTRACTION LIBERABLE DOTE D'UN RACCORD A TENON ET A FENTE**
[72] SCHRYVER, JEFF D., CA
[71] VANGAARD DOWNHOLE INC., CA
[85] 2022-05-25
[86] 2020-12-18 (PCT/CA2020/051743)
[87] (WO2021/119825)
[30] US (62/951,373) 2019-12-20

[21] **3,159,524**
[13] A1
[51] **Int.Cl. H01L 51/00 (2006.01) H01L 51/42 (2006.01)**
[25] EN
[54] **CROSS LINKED SURFACE COATING AND INTERFACIAL LAYER FOR A PEROVSKITE MATERIAL PHOTOVOLTAIC DEVICE**
[54] **REVETEMENT DE SURFACE RETICULE ET COUCHE INTERFACIALE DE DISPOSITIF PHOTOVOLTAIQUE A MATERIAU PEROVSKITE**
[72] IRWIN, MICHAEL DAVID, US
[72] MIELCZAREK, KAMIL, US
[72] ANDERSON, NICHOLAS CHARLES, US
[71] CUBICPV, INC., US
[85] 2022-05-25
[86] 2020-11-23 (PCT/US2020/061820)
[87] (WO2021/108316)
[30] US (62/941,320) 2019-11-27

[21] **3,159,526**
[13] A1
[51] **Int.Cl. C07D 471/06 (2006.01) H01L 51/44 (2006.01)**
[25] EN
[54] **NON-FULLERENE ACCEPTORS (NFAS) AS INTERFACIAL LAYERS IN PEROVSKITE SEMICONDUCTOR DEVICES**
[54] **ACCEPTEURS NON-FULLERENES (NFAS) UTILISES EN TANT QUE COUCHES INTERFACIALES DANS DES DISPOSITIFS SEMI-CONDUCTEURS DE TYPE PEROVSKITE**
[72] IRWIN, MICHAEL DAVID, US
[72] NGUYEN, MINH TU, US
[72] MIELCZAREK, KAMIL, US
[71] CUBICPV INC., US
[85] 2022-05-25
[86] 2020-11-23 (PCT/US2020/061824)
[87] (WO2021/108317)
[30] US (62/941,345) 2019-11-27

[21] **3,159,530**
[13] A1
[51] **Int.Cl. H01L 51/44 (2006.01)**
[25] EN
[54] **METAL OXIDE NANOPARTICLE ELECTRON TRANSPORT LAYERS IN PEROVSKITE SEMICONDUCTOR DEVICES**
[54] **COUCHES DE TRANSPORT D'ELECTRONS A NANOPARTICULES D'OXYDE METALLIQUE DANS DES DISPOSITIFS A SEMI-CONDUCTEURS EN PEROVSKITE**
[72] IRWIN, MICHAEL DAVID, US
[72] HIGGINS, MARISSA LYNN, US
[72] ANDERSON, NICHOLAS CHARLES, US
[71] CUBICPV INC., US
[85] 2022-05-25
[86] 2020-11-27 (PCT/US2020/062483)
[87] (WO2021/108754)
[30] US (62/941,066) 2019-11-27

[21] **3,159,535**
[13] A1
[51] **Int.Cl. A61K 39/09 (2006.01) A61P 31/04 (2006.01) C08B 37/00 (2006.01) C12P 19/04 (2006.01)**
[25] EN
[54] **METHOD OF PURIFYING POLYSACCHARIDES**
[54] **PROCEDE DE PURIFICATION DE POLYSACCHARIDES**
[72] ZURBRIGGEN, ANDREAS, CH
[71] LONZA LTD, CH
[85] 2022-05-25
[86] 2020-11-30 (PCT/US2020/062586)
[87] (WO2021/108792)
[30] US (62/941,941) 2019-11-29

[21] **3,159,536**
[13] A1
[51] **Int.Cl. A01G 7/00 (2006.01) A01G 7/02 (2006.01) A01G 9/24 (2006.01)**
[25] EN
[54] **PRESSURE ATMOSPHERE ROOM**
[54] **PIECE A ATMOSPHERE SOUS PRESSION**
[72] SCHAEFER, JAMES C., US
[72] BOOZER, DAN, US
[72] BELL, TODD, US
[72] SCHAEFER, SAMUEL, US
[71] GROW CONTROLLED, LLC, US
[85] 2022-05-25
[86] 2020-12-04 (PCT/US2020/063189)
[87] (WO2021/113562)
[30] US (62/943,590) 2019-12-04

[21] **3,159,537**
[13] A1
[51] **Int.Cl. G06F 21/31 (2013.01)**
[25] EN
[54] **REUSABLE, SECURE SHIPPING PACKAGE**
[54] **EMBALLAGE D'EXPEDITION SUR REUTILISABLE**
[72] DOLMAYAN, JOHN HOVIG, US
[71] SHIP ASSURE, US
[85] 2022-05-25
[86] 2020-12-08 (PCT/US2020/063808)
[87] (WO2021/119011)
[30] US (62/945,409) 2019-12-09
[30] US (16/994,459) 2020-08-14

[21] **3,159,538**
[13] A1
[51] **Int.Cl. G06F 16/23 (2019.01) G06F 16/21 (2019.01) G06F 16/27 (2019.01)**
[25] EN
[54] **WATERMARK-BASED TECHNIQUES FOR CHANGE-DATA-CAPTURE**
[54] **TECHNIQUES A BASE DE FILIGRANE POUR LA CAPTURE DE DONNEES DE CHANGEMENT**
[72] ANDREAKIS, ANDREAS, US
[72] PAPAPANAGIOTOU, IOANNIS, US
[71] NETFLIX, INC., US
[85] 2022-05-25
[86] 2020-12-11 (PCT/US2020/064657)
[87] (WO2021/126711)
[30] US (62/948,763) 2019-12-16
[30] US (62/985,270) 2020-03-04
[30] US (17/105,830) 2020-11-27

[21] **3,159,539**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/024 (2006.01) A61B 5/103 (2006.01) G06N 3/02 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PHYSIOLOGICAL MEASUREMENTS FROM OPTICAL DATA**
[54] **SYSTEME ET PROCEDE POUR MESURES PHYSIOLOGIQUES A PARTIR DE DONNEES OPTIQUES**
[72] MAMAN, DAVID, IL
[72] GEDALIN, KONSTANTIN, IL
[72] MARKZON, MICHAEL, IL
[71] BINAH.AI LTD, IL
[85] 2022-05-25
[86] 2020-12-01 (PCT/IL2020/051238)
[87] (WO2021/111436)
[30] US (62/942,247) 2019-12-02

[21] **3,159,555**
[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01)**
[25] EN
[54] **BIFUNCTIONAL MOLECULES COMPRISING AN IL-7 VARIANT**
[54] **MOLECULES BIFONCTIONNELLES COMPRENANT UN VARIANT DE L'IL-7**
[72] POIRIER, NICOLAS, FR
[72] MARY, CAROLINE, FR
[72] MORELLO, AURORE, FR
[71] OSE IMMUNOTHERAPEUTICS, FR
[85] 2022-05-26
[86] 2020-12-17 (PCT/EP2020/086600)
[87] (WO2021/122866)
[30] EP (19306671.9) 2019-12-17

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[21] **3,159,613**
[13] A1
[51] **Int.Cl. A23L 2/52 (2006.01) A23L 33/21 (2016.01) C12G 3/05 (2019.01) C08B 37/00 (2006.01) C12C 5/02 (2006.01) C12C 12/02 (2006.01) C12P 19/00 (2006.01) C12P 19/04 (2006.01)**
[25] EN
[54] **HIGH-FIBER, LOW-SUGAR SOLUBLE DIETARY FIBERS, PRODUCTS INCLUDING THEM AND METHODS FOR MAKING AND USING THEM**
[54] **FIBRES ALIMENTAIRES SOLUBLES A HAUTE TENEUR EN FIBRES, A FAIBLE TENEUR EN SUCRE, PRODUITS COMPRENANT CELLES-CI ET PROCEDES DE FABRICATION ET D'UTILISATION DE CELLES-CI**
[72] BAHAR, MARK, US
[72] TOMAR, JUHI, US
[72] DE SOUZA, MERVYN, US
[72] EVANS, ANNETTE, US
[72] FLETCHER, JOSHUA, US
[72] CARR, JAMES, US
[71] TATE & LYLE SOLUTIONS USA LLC, US
[85] 2022-05-26
[86] 2020-11-27 (PCT/US2020/062522)
[87] (WO2021/108782)
[30] US (62/941,778) 2019-11-28
[30] US (62/941,776) 2019-11-28

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[21] **3,159,634**
[13] A1
[51] **Int.Cl. G01D 11/30 (2006.01) G01D 5/353 (2006.01)**
[25] EN
[54] **FASTENING ELEMENT, SENSOR UNIT HAVING A SENSOR AND A FASTENING ELEMENT, SENSOR UNIT, AND METHOD FOR FASTENING A SENSOR UNIT**
[54] **ELEMENT DE FIXATION, UNITE DE DETECTION COMPRENANT UN CAPTEUR ET UN ELEMENT DE FIXATION, UNITE DE DETECTION ET PROCEDE DE FIXATION D'UNE UNITE DE DETECTION**
[72] BREITWEG, ROLF, DE
[71] THALES MANAGEMENT & SERVICES DEUTSCHLAND GMBH, DE
[85] 2022-05-26
[86] 2020-12-11 (PCT/EP2020/085779)
[87] (WO2021/116417)
[30] EP (19215774.1) 2019-12-12
[30] EP (20152514.4) 2020-01-17

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[21] **3,159,635**
[13] A1
[51] **Int.Cl. A21D 2/16 (2006.01) A21D 2/18 (2006.01) A21D 2/26 (2006.01) A23D 7/005 (2006.01) A23D 7/01 (2006.01) A23D 9/007 (2006.01) A23D 9/013 (2006.01)**
[25] EN
[54] **FAT-CONTAINING PRODUCT**
[54] **PRODUIT CONTENANT DE LA MATIERE GRASSE**
[72] GAUDIER, ESTELLE AGNES, NL
[72] DOL, GEORG CHRISTIAN, NL
[71] UPFIELD EUROPE B.V., NL
[85] 2022-05-26
[86] 2020-11-26 (PCT/EP2020/025541)
[87] (WO2021/104675)
[30] EP (19211620.0) 2019-11-26

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[21] **3,159,646**
[13] A1
[51] **Int.Cl. B65C 9/40 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A LABELLING SYSTEM**
[54] **PROCEDE D'EXPLOITATION D'UN SYSTEME D'ETIQUETAGE**
[72] BECKERS, RONNIE, BE
[72] VICKTORIUS, WINFRIED, DE
[72] WOLFF, PETER, DE
[71] ESPERA-WERKE GMBH, DE
[85] 2022-05-26
[86] 2020-11-26 (PCT/EP2020/083505)
[87] (WO2021/110533)
[30] DE (10 2019 132 710.5) 2019-12-02

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[21] **3,159,648**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01)**
[25] EN
[54] **POUCHED PRODUCTS**
[54] **PRODUITS EN SACHET**
[72] MCCLANAHAN, DAVID NEIL, US
[72] BEESON, DWAYNE WILLIAM, GB
[72] HORTON, LAYA KATINA PALMER, GB
[72] HUTCHENS, RONALD K., GB
[72] JOHNSON, SAVANNAH, GB
[72] JONES, WESLEY STEVEN, GB
[72] O'NEAL, TRAVIS, GB
[72] PATEL, PANKAJ, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-26
[86] 2020-12-02 (PCT/IB2020/061411)
[87] (WO2021/116837)
[30] US (16/707,390) 2019-12-09

[21] **3,159,651**
[13] A1
[51] **Int.Cl. G16B 20/00 (2019.01) G16B 30/10 (2019.01) G16B 40/20 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ESTIMATING CELL SOURCE FRACTIONS USING METHYLATION INFORMATION**
[54] **SYSTEMES ET PROCEDES D'ESTIMATION DE FRACTIONS DE SOURCE CELLULAIRE A L'AIDE D'INFORMATIONS DE METHYLATION**
[72] XIANG, JING, US
[72] CALEF, ROBERT ABE PAINE, US
[71] GRAIL, LLC, US
[85] 2022-05-26
[86] 2020-12-18 (PCT/US2020/066217)
[87] (WO2021/127565)
[30] US (62/950,071) 2019-12-18

[21] **3,159,652**
[13] A1
[51] **Int.Cl. A45C 3/12 (2006.01) A45C 3/06 (2006.01) A45C 13/36 (2006.01)**
[25] EN
[54] **CARRYING BAG FOR STORING REPLACEMENT SHOES**
[54]
[72] AMMANN, PETER, CH
[71] AMMANN, PETER, CH
[85] 2022-05-26
[86] 2019-11-28 (PCT/EP2019/082860)
[87] (WO2021/104627)

[21] **3,159,654**
[13] A1
[51] **Int.Cl. G02B 6/02 (2006.01) C03B 37/012 (2006.01)**
[25] EN
[54] **MULTI-CORE OPTICAL FIBER WITH REDUCED BUBBLE FORMATION**
[54] **FIBRE OPTIQUE A AMES MULTIPLES (MCF) A FORMATION DE BULLES REDUITE**
[72] MIRSEPASSI, ALIREZA, US
[72] RICHARDSON, DEAN, US
[71] ALCON INC., CH
[85] 2022-05-26
[86] 2020-12-02 (PCT/IB2020/061392)
[87] (WO2021/111337)
[30] US (62/943,352) 2019-12-04

[21] **3,159,657**
[13] A1
[51] **Int.Cl. G08B 5/00 (2006.01)**
[25] FR
[54] **MULTI-PURPOSE APPARATUS AND METHOD FOR PREVENTIVE LIGHT SIGNALLING OF THE PROGRESS OF A VEHICLE**
[54] **APPAREIL POLYVALENT ET METHODE DE SIGNALISATION LUMINEUSE PREVENTIVE DE LA PROGRESSION D'UN VEHICULE**
[72] AIT EL HADJ, MOHAMED, FR
[71] AIT EL HADJ, MOHAMED, FR
[85] 2022-05-26
[86] 2020-11-19 (PCT/EP2020/082664)
[87] (WO2021/115753)
[30] FR (FR1914093) 2019-12-10

[21] **3,159,658**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **ORAL COMPOSITIONS WITH REDUCED WATER CONTENT**
[54] **COMPOSITIONS ORALES A TENEUR EN EAU REDUITE**
[72] GERARDI, ANTHONY RICHARD, US
[72] BEESON, DWAYNE WILLIAM, GB
[72] HUTCHENS, RONALD K., GB
[72] KELLER, CHRISTOPHER, GB
[72] POOLE, THOMAS H., GB
[72] SEBASTIAN, ANDRIES DON, GB
[72] ST. CHARLES, FRANK KELLEY, GB
[71] NICOVENTURES HOLDINGS LIMITED, GB
[85] 2022-05-26
[86] 2020-12-04 (PCT/IB2020/061539)
[87] (WO2021/116862)
[30] US (16/707,637) 2019-12-09

[21] **3,159,663**
[13] A1
[51] **Int.Cl. B64C 21/10 (2006.01)**
[25] EN
[54] **METHOD FOR APPLYING AN AERODYNAMICALLY FUNCTIONAL FILM**
[54] **PROCEDE D'APPLICATION D'UN FILM AERODYNAMIQUEMENT FONCTIONNEL**
[72] OESER, OLIVER, DE
[72] GERBER, THORSTEN, DE
[72] PFINGSTEN, KAI-CHRISTOPH, DE
[72] BROST, DOMINIK, DE
[72] KLEIN, DARIUS, DE
[72] RATHMANN, HOLGER, DE
[71] LUFTHANSA TECHNIK AG, DE
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083564)
[87] (WO2021/105316)
[30] DE (10 2019 132 347.9) 2019-11-28

[21] **3,159,664**
[13] A1
[51] **Int.Cl. B01L 1/04 (2006.01) B08B 15/02 (2006.01)**
[25] EN
[54] **CONSTRUCTION OF A CONTAINMENT MEANS WITH AN ASEPTIC WORKING CHAMBER**
[54] **ASSEMBLAGE D'UN MOYEN DE CONFINEMENT AVEC UNE CHAMBRE DE TRAVAIL ASEPTIQUE**
[72] LEHMANN, FRANK MARTIN, CH
[72] SCHOLLER, YVES, FR
[72] SOMMERHALDER, MATTHIAS, CH
[71] SKAN AG, CH
[85] 2022-05-26
[86] 2020-11-30 (PCT/CH2020/000018)
[87] (WO2021/113994)
[30] EP (19405020.9) 2019-12-10

[21] **3,159,665**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **ORAL PRODUCTS WITH REDUCED IRRITATION**
[54] **PRODUITS ORAUX A IRRITATION REDUITE**
[72] GERARDI, ANTHONY RICHARD, US
[72] BEESON, DWAYNE WILLIAM, GB
[72] HOLTON, JR. DARRELL EUGENE, GB
[72] HUTCHENS, RONALD K., GB
[72] KELLER, CHRISTOPHER, GB
[72] POOLE, THOMAS H., GB
[72] SEBASTIAN, ANDRIES DON, GB
[72] ST. CHARLES, FRANK KELLEY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-26
[86] 2020-12-01 (PCT/IB2020/061335)
[87] (WO2021/116822)
[30] US (16/707,583) 2019-12-09

[21] **3,159,667**
[13] A1
[51] **Int.Cl. G06N 3/04 (2006.01) G06N 3/063 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ENCRYPTING DATA AND ALGORITHMS**
[54] **SYSTEMES ET PROCEDES DE CHIFFREMENT DE DONNEES ET D'ALGORITHMES**
[72] STORM, GREG, US
[72] DAS, RIDDHIMAN, US
[72] GILKALAYE, BABAK POOREBRAHIM, US
[71] TRIPLEBLIND, INC., US
[85] 2022-05-26
[86] 2020-12-10 (PCT/US2020/064387)
[87] (WO2021/119365)
[30] US (62/948,105) 2019-12-13
[30] US (16/828,085) 2020-03-24

[21] **3,159,669**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING A FINDING FOR THE FUNCTIONALITY OF AN ANOREXIGENIC SIGNAL PATH FOR A PATIENT**
[54] **PROCEDE POUR ETABLIR UN DIAGNOSTIC LIE A LA FONCTIONNALITE D'UNE VOIE DE SIGNALISATION ANOREXIGENE CHEZ UN PATIENT**
[72] BUCHHOLZ, TINA, DE
[72] KRUGER, NANCY, DE
[72] BLANKENSTEIN, OLIVER, DE
[72] KUHNEN, PETER, DE
[72] BOHRINGER, FALKO, DE
[71] LABOR BERLIN - CHARITE VIVANTES SERVICES GMBH, DE
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083630)
[87] (WO2021/105360)
[30] DE (10 2019 218 597.5) 2019-11-29

[21] **3,159,672**
[13] A1
[51] **Int.Cl. E03C 1/284 (2006.01)**
[25] EN
[54] **DRAINAGE DEVICE**
[54] **DISPOSITIF DE DRAINAGE**
[72] RATHAMMER, ANDRE, AT
[71] FECHTER, HARALD, AT
[71] RATHAMMER, ANDRE, AT
[85] 2022-05-26
[86] 2020-12-02 (PCT/EP2020/084300)
[87] (WO2021/110758)
[30] AT (A51068/2019) 2019-12-06

[21] **3,159,673**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR REMOTE CONFIGURATION OF ASPHALT PLANT**
[54] **SYSTEME ET PROCEDE DE CONFIGURATION A DISTANCE D'USINE D'ASPHALTE**
[72] SUBRAMANIAN, GAUTHAM, US
[72] MCALPINE, JACOB J., US
[72] MARSOLEK, JOHN L., US
[71] CATERPILLAR INC., US
[85] 2022-05-26
[86] 2020-11-30 (PCT/US2020/062537)
[87] (WO2021/113157)
[30] US (16/702,401) 2019-12-03

[21] **3,159,674**
[13] A1
[51] **Int.Cl. E21B 10/42 (2006.01) E21B 10/43 (2006.01) E21B 10/60 (2006.01)**
[25] EN
[54] **DRILL BIT WITH AUXILIARY CHANNEL OPENINGS**
[54] **TREPAN A OUVERTURES DE CANAL AUXILIAIRES**
[72] CLARK, JARED, US
[72] DOUGLAS, III CHARLES H.S., US
[72] SIMATIC, THOMAS, US
[72] TORRES, JEREMIAH, US
[71] ULTERRA DRILLING TECHNOLOGIES, L.P., US
[85] 2022-05-26
[86] 2020-12-16 (PCT/US2020/065196)
[87] (WO2021/126898)
[30] US (62/949,226) 2019-12-17

[21] **3,159,675**
[13] A1
[51] **Int.Cl. C07K 16/36 (2006.01) A61P 7/10 (2006.01)**
[25] EN
[54] **USE OF AN ANTI-FACTOR XII ANTIBODY FOR THE TREATMENT OR PREVENTION OF HEREDITARY ANGIOEDEMA**
[54] **UTILISATION D'UN ANTICORPS ANTI-FACTEUR XII POUR LE TRAITEMENT OU LA PREVENTION DE L'OEDEME DE QUINCKE HEREDITAIRE**
[72] PRAGST, INGO, DE
[72] PAWASKAR, DIPTI, US
[72] YURASZECK, THERESA, US
[72] ZHANG, YING, US
[71] CSL INNOVATION PTY LTD, AU
[85] 2022-05-26
[86] 2020-12-03 (PCT/AU2020/051321)
[87] (WO2021/108862)
[30] US (62/943,117) 2019-12-03
[30] US (63/093,975) 2020-10-20

[21] **3,159,676**
[13] A1
[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/689 (2018.01)**
[25] EN
[54] **METHODS FOR IDENTIFYING MICROBES IN A CLINICAL AND NON-CLINICAL SETTING.**
[54] **PROCEDES D'IDENTIFICATION DE MICROBES DANS UN ENVIRONNEMENT CLINIQUE ET NON CLINIQUE.**
[72] BUDDING, ANDRIES EDWARD, NL
[71] BIOMIRIS CAPITAL GROUP B.V., NL
[85] 2022-05-26
[86] 2020-12-02 (PCT/NL2020/050753)
[87] (WO2021/112673)
[30] EP (19212955.9) 2019-12-02

[21] **3,159,677**
[13] A1
[51] **Int.Cl. G06F 3/08 (2006.01) G06Q 20/40 (2012.01) G06Q 30/06 (2012.01) G06F 17/16 (2006.01) G06K 9/62 (2022.01) G06N 3/04 (2006.01) H04L 9/00 (2022.01) H04L 9/06 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EFFICIENT COMPUTATIONS ON SPLIT DATA AND SPLIT ALGORITHMS**
[54] **SYSTEMES ET PROCEDES POUR DES CALCULS EFFICACES SUR DES DONNEES FRACTIONNEES ET DES ALGORITHMES FRACTIONNES**
[72] STORM, GREG, US
[72] DAS, RIDDHIMAN, US
[72] GILKALAYE, BABAK POOREBRAHIM, US
[71] TRIPLEBLIND, INC., US
[85] 2022-05-26
[86] 2020-12-10 (PCT/US2020/064389)
[87] (WO2021/119367)
[30] US (62/948,105) 2019-12-13
[30] US (16/828,216) 2020-03-24

[21] **3,159,679**
[13] A1
[51] **Int.Cl. B01D 67/00 (2006.01) B01D 69/12 (2006.01) C09D 127/18 (2006.01)**
[25] EN
[54] **SORBENT FOR AT LEAST ONE METAL**
[54] **SORBANT POUR AU MOINS UN METAL**
[72] MATHUR, SHARAD, US
[72] CLEARY, CHARLES ELLIOTT JR., US
[72] BLUEMLE, MICHAEL, US
[71] SOLENIS TECHNOLOGIES CAYMAN, L.P., KY
[71] SOLENIS TECHNOLOGIES, L.P., US
[85] 2022-05-26
[86] 2020-11-19 (PCT/US2020/061173)
[87] (WO2021/108199)
[30] US (16/697,429) 2019-11-27

[21] **3,159,680**
[13] A1
[51] **Int.Cl. C21B 11/08 (2006.01) C21C 5/56 (2006.01)**
[25] EN
[54] **APPARATUS FOR THE PRODUCTION OF MOLTEN IRON**
[54] **APPAREIL DE PRODUCTION DE FER FONDU**
[72] BROERSEN, PETRUS GERARDUS JACOBUS, NL
[72] MEIJER, HENDRIKUS KOENRAAD ALBERTUS, NL
[71] TATA STEEL IJMUIDEN B.V., NL
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083697)
[87] (WO2021/105400)
[30] EP (19212178.8) 2019-11-28

[21] **3,159,681**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING PRE-EMPTIVE INTERCEPT WARNINGS FOR ONLINE PRIVACY OR SECURITY**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE FOURNIR DES AVERTISSEMENTS D'INTERCEPTION PREVENTIVE POUR LA CONFIDENTIALITE OU LA SECURITE EN LIGNE**
[72] DAO, TUAN, US
[72] SPECTOR, HOWARD, US
[71] JPMORGAN CHASE BANK, N.A., US
[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062242)
[87] (WO2021/108560)
[30] US (62/941,247) 2019-11-27
[30] US (17/103,255) 2020-11-24

[21] **3,159,687**
[13] A1
[51] **Int.Cl. C08K 3/04 (2006.01)**
[25] EN
[54] **COMPOSITIONS FOR USE IN ELECTROMAGNETIC INTERFERENCE SHIELDING**
[54] **COMPOSITIONS DESTINEES A ETRE UTILISEES DANS UN BLINDAGE CONTRE LES INTERFERENCES ELECTROMAGNETIQUES**
[72] VAN RAALTEN, RUTGER ALEXANDER DAVID, NL
[72] SORDI, DANIELA, NL
[72] HANNEBICQUE, LAURE AUDE MARIE SUZANNE, NL
[72] LIU, ZHEN, NL
[71] CARBONX IP 7 B.V., NL
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083688)
[87] (WO2021/105395)
[30] EP (19212349.5) 2019-11-28

[21] **3,159,688**
[13] A1
[51] **Int.Cl. B05B 12/00 (2018.01)**
[25] EN
[54] **SENSOR KIT FOR A SPRAY GUN**
[54] **KIT DE CAPTEURS POUR PISTOLET DE PULVERISATION**
[72] SERRUIJS, REMY MICHEL, NL
[72] NIEUWENBURG, RONNIE JACOBUS SAMUEL, NL
[72] KEIJ, ROB, NL
[71] PROXCONTROL IP B.V., NL
[85] 2022-05-26
[86] 2020-12-04 (PCT/NL2020/050761)
[87] (WO2021/112680)
[30] NL (2024379) 2019-12-04

[21] **3,159,689**
[13] A1
[51] **Int.Cl. C07D 231/56 (2006.01) C07D 209/04 (2006.01) C07D 209/44 (2006.01) C07D 235/04 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **COMPOUND CONTAINING BENZENE RING AND APPLICATION THEREOF**
[54] **COMPOSE CONTENANT UN NOYAU BENZENIQUE ET SON APPLICATION**
[72] LOU, JUN, CN
[72] CHEN, YONGKAI, CN
[72] ZHANG, YIHAN, CN
[72] GUO, XIAODAN, CN
[72] QIAN, LINA, CN
[72] LIU, LI, CN
[72] PENG, WEI, CN
[72] RONG, FEI, CN
[72] WANG, CHAODONG, CN
[71] WUHAN LL SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD., CN
[85] 2022-05-26
[86] 2020-11-27 (PCT/CN2020/132418)
[87] (WO2021/104486)
[30] CN (201911203127.2) 2019-11-29

[21] **3,159,692**
[13] A1
[51] **Int.Cl. G16B 30/20 (2019.01)**
[25] EN
[54] **INDEX SEQUENCES FOR MULTIPLEX PARALLEL SEQUENCING**
[54] **SEQUENCES D'INDEX POUR UN SEQUENCAGE MULTIPLEX PARALLELE**
[72] MOLDASCHL, MICHAEL, AT
[72] TURK, ANDREAS, AT
[72] REDA, TORSTEN, AT
[72] SCHAUPPER, MIRA VALENTINA, AT
[71] LEXOGEN GMBH, AT
[85] 2022-05-26
[86] 2020-12-09 (PCT/EP2020/085368)
[87] (WO2021/116224)
[30] EP (19214355.0) 2019-12-09

[21] **3,159,693**
[13] A1
[51] **Int.Cl. G02B 27/01 (2006.01) G02F 1/13 (2006.01)**
[25] EN
[54] **NEAR-EYE DISPLAY WITH ARRAY OPTICS**
[54] **AFFICHAGE PROCHE DE L'?IL AVEC OPTIQUE DE RESEAU**
[72] VAN HEUGTEN, ANTHONY, US
[71] E-VISION SMART OPTICS, INC., US
[85] 2022-05-26
[86] 2020-12-11 (PCT/US2020/064413)
[87] (WO2021/119377)
[30] US (62/946,498) 2019-12-11
[30] US (62/950,707) 2019-12-19

[21] **3,159,694**
[13] A1
[51] **Int.Cl. B23D 15/00 (2006.01) B23K 26/046 (2014.01) B23K 26/082 (2014.01) B23K 26/352 (2014.01) B23D 36/00 (2006.01) B23K 26/00 (2014.01) B23K 26/06 (2014.01) B23K 26/08 (2014.01)**
[25] EN
[54] **CUTTING STATION FOR PROFILED ELEMENTS, PARTICULARLY FOR WINDOW AND DOOR FRAMES, WITH A LASER MARKING ASSEMBLY**
[54] **POSTE DE COUPE D'ELEMENTS PROFILES, EN PARTICULIER DE CADRES DE FENETRE ET DE PORTE, DOTE D'UN ENSEMBLE DE MARQUAGE AU LASER**
[72] VACCARI, ANDREA, IT
[72] DE GRANDIS, DENIS, IT
[71] GRAF SYNERGY S.R.L., IT
[85] 2022-05-26
[86] 2020-12-14 (PCT/IB2020/061892)
[87] (WO2021/124070)
[30] IT (102019000024262) 2019-12-17

[21] **3,159,695**
[13] A1
[51] **Int.Cl. F28D 20/00 (2006.01) H01M 8/18 (2006.01)**
[25] EN
[54] **THERMAL ENERGY STORAGE**
[54] **STOCKAGE D'ENERGIE THERMIQUE**
[72] BRAND, JOOST HERMAN JAN, NL
[71] SUMMERHEAT GROUP B.V., NL
[85] 2022-05-26
[86] 2020-12-02 (PCT/NL2020/050754)
[87] (WO2021/112674)
[30] NL (2024361) 2019-12-02
[30] NL (2024357) 2019-12-02
[30] NL (2024355) 2019-12-02

[21] **3,159,696**
[13] A1
[51] **Int.Cl. C04B 28/02 (2006.01) C09K 8/467 (2006.01)**
[25] EN
[54] **CEMENT COMPRISING MAGNETIC NANOPARTICLES AND METHOD OF SETTING A SLURRY THEREOF**
[54] **CIMENT COMPRENANT DES NANOPARTICULES MAGNETIQUES ET PROCEDE DE DURCISSEMENT D'UNE SUSPENSION DE CE DERNIER**
[72] GONZALEZ FERNANDEZ, MARIA ANGELES, ES
[72] BEZERRA DE MELO, RICARDO, ES
[72] FRAGA TRILLO, LUISA MARIA, ES
[72] VEINTEMILLAS VERDAGUER, SABINO, ES
[72] GALLO CORDOVA, ALVARO, ES
[72] MORALES HERRERO, MARIA DEL PUERTO, ES
[71] REPSOL, S.A., ES
[85] 2022-05-26
[86] 2020-12-07 (PCT/EP2020/084856)
[87] (WO2021/116008)
[30] EP (19383090.8) 2019-12-09

[21] **3,159,697**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A24B 15/28 (2006.01) A24F 23/02 (2006.01)**
[25] EN
[54] **ORAL PRODUCT AND METHOD OF MANUFACTURE**
[54] **PRODUIT ORAL ET SON PROCEDE DE FABRICATION**
[72] MUA, JOHN PAUL, US
[72] BUNCH, JOHN E., GB
[72] GERARDI, ANTHONY RICHARD, GB
[72] HOLTON, JR. DARRELL EUGENE, GB
[72] HUTCHENS, RONALD K., GB
[72] MONSALUD, LUIS, GB
[72] POOLE, THOMAS H., GB
[72] ST. CHARLES, FRANK KELLEY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-26
[86] 2020-12-08 (PCT/IB2020/061616)
[87] (WO2021/116893)
[30] US (16/707,580) 2019-12-09

[21] **3,159,698**
[13] A1
[51] **Int.Cl. A61K 38/05 (2006.01) A61P 35/02 (2006.01) C07K 5/06 (2006.01)**
[25] EN
[54] **MODULATORS OF PROGRAMMED DEATH-LIGAND-1 AND/OR PROGRAMMED DEATH-LIGAND-2**
[54] **MODULATEURS DE MORT PROGRAMMEE DE LIGAND 1 ET/OU DE MORT PROGRAMMEE DE LIGAND 2**
[72] SUTO, MARK J., US
[72] MATHEW, BINI, US
[72] BOOHAKER, REBECCA, US
[71] SOUTHERN RESEARCH INSTITUTE, US
[85] 2022-05-26
[86] 2020-12-03 (PCT/US2020/063137)
[87] (WO2021/113528)
[30] US (62/943,728) 2019-12-04

[21] **3,159,699**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING A FINDING FOR THE FUNCTIONALITY OF AN ANOREXIGENIC SIGNAL PATH FOR A PATIENT**
[54] **PROCEDE POUR ETABLIR UN DIAGNOSTIC LIE A LA FONCTIONNALITE D'UNE VOIE DE SIGNALISATION ANOREXIGENE CHEZ UN PATIENT**
[72] BUCHHOLZ, TINA, DE
[72] KRUGER, NANCY, DE
[72] BLANKENSTEIN, OLIVER, DE
[72] KUHNEN, PETER, DE
[72] BOHRINGER, FALKO, DE
[71] LABOR BERLIN - CHARITE VIVANTES SERVICES GMBH, DE
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083643)
[87] (WO2021/105372)
[30] DE (10 2019 218 598.3) 2019-11-29

[21] **3,159,700**
[13] A1
[51] **Int.Cl. A01M 31/06 (2006.01)**
[25] EN
[54] **DEPLOYABLE DECOY SYSTEM FOR THE ATTRACTION OF WILD GAME AND METHODS FOR MANUFACTURING AND DEPLOYING THE SAME**
[54] **SYSTEME DE LEURRE DEPLOYABLE POUR L'ATTRACTION DE GRANDS FAUVES ET SES PROCEDES DE FABRICATION ET DE DEPLOIEMENT**
[72] CHARRON, GUY, CA
[71] CREAVAL INC., CA
[85] 2022-05-26
[86] 2020-12-18 (PCT/CA2020/051764)
[87] (WO2021/119842)
[30] US (62/951,779) 2019-12-20

[21] **3,159,701**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINATION OF A 3D INFORMATION AND OF A MODIFICATION OF A METALLURGICAL VESSEL**
[54] **SYSTEME ET PROCEDE DE DETERMINATION D'INFORMATIONS 3D ET DE MODIFICATION D'UN RECIPIENT METALLURGIQUE**
[72] KATZ, ROMY-SOPHIE, AT
[72] LAMMER, GREGOR, AT
[71] REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG, AT
[85] 2022-05-26
[86] 2021-01-14 (PCT/EP2021/050735)
[87] (WO2021/144386)
[30] EP (20152201.8) 2020-01-16

[21] **3,159,702**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01)**
[25] EN
[54] **ORAL FOAM COMPOSITION**
[54] **COMPOSITION DE MOUSSE ORALE**
[72] ST. CHARLES, FRANK KELLEY, US
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-26
[86] 2020-12-08 (PCT/IB2020/061614)
[87] (WO2021/116891)
[30] US (16/706,968) 2019-12-09

[21] **3,159,703**
[13] A1
[51] **Int.Cl. F04D 29/12 (2006.01)**
[25] EN
[54] **CONTACTING SEAL ARRANGEMENT FOR LOW AND HIGH PRESSURE APPLICATIONS**
[54] **AGENCEMENT DE JOINT D'ETANCHEITE PAR CONTACT POUR DES APPLICATIONS BASSE ET HAUTE PRESSION**
[72] MILAN, ARNAUD, US
[72] LAPRESTI, MICHAEL A., US
[72] HOWARD, BRUCE A., US
[72] BRUNER, BRANDON H., US
[72] MARCHELLETTA, RANDALL J., US
[71] WESTINGHOUSE ELECTRIC COMPANY LLC, US
[85] 2022-05-26
[86] 2020-11-23 (PCT/US2020/061838)
[87] (WO2021/118799)
[30] US (16/697,351) 2019-11-27

[21] **3,159,704**
[13] A1
[51] **Int.Cl. B42D 25/00 (2014.01) B42D 25/328 (2014.01) B42D 25/346 (2014.01)**
[25] FR
[54] **SECURITY DOCUMENT HAVING A PERSONALISED IMAGE FORMED FROM A METAL HOLOGRAM AND METHOD FOR THE PRODUCTION THEREOF**
[54] **UN DOCUMENT SECURISE AVEC UNE IMAGE PERSONNALISEE FORMEE A PARTIR D'UN HOLOGRAMME METALLIQUE ET SON PROCEDE DE FABRICATION**
[72] DURIEZ, CHRISTOPHE, FR
[72] AZUELOS, PAUL, FR
[71] IDEMIA FRANCE, FR
[85] 2022-05-26
[86] 2020-11-10 (PCT/FR2020/052053)
[87] (WO2021/105582)
[30] FR (FR1913513) 2019-11-29

[21] **3,159,705**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01)**
[25] EN
[54] **STABLE COMPOSITIONS OF FC MULTIMERS**
[54] **COMPOSITIONS STABLES DE MULTIMERES FC**
[72] ABDUL FATTAH MOHAMAD, AHMAD MOHAMAD, EG
[72] GARVEY, MEGAN, AU
[72] POZZOLI, MICHELE, IT
[72] TILLEY, ADAM, AU
[72] TSIRIKIS, PETER, AU
[71] CSL BEHRING LENGNAU AG, CH
[85] 2022-05-26
[86] 2020-12-07 (PCT/EP2020/084919)
[87] (WO2021/111007)
[30] EP (19214265.1) 2019-12-06

[21] **3,159,706**
[13] A1
[51] **Int.Cl. D04H 1/425 (2012.01) D04H 1/4258 (2012.01) D04H 1/4266 (2012.01) D04H 1/435 (2012.01) D04H 3/011 (2012.01) D04H 3/013 (2012.01) D04H 3/015 (2012.01)**
[25] EN
[54] **FIBROUS FLEECE MATERIAL**
[54] **MATERIAU DE TOISON FIBREUX**
[72] HUTCHENS, RONALD K., US
[72] BEESON, DWAYNE WILLIAM, GB
[72] HORTON, LAYA KATINA PALMER, GB
[72] JOHNSON, SAVANNAH, GB
[72] JONES, WESLEY STEVEN, GB
[72] MCCLANAHAN, DAVID NEIL, GB
[72] O'NEAL, TRAVIS, GB
[72] PATEL, PANKAJ, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-26
[86] 2020-12-03 (PCT/IB2020/061469)
[87] (WO2021/116853)
[30] US (16/708,033) 2019-12-09

[21] **3,159,707**
[13] A1
[51] **Int.Cl. B60C 11/12 (2006.01)**
[25] EN
[54] **PNEUMATIC TYRE FOR A VEHICLE**
[54] **BANDAGE PNEUMATIQUE POUR UN VEHICULE**
[72] SCHLITTENHARD, JAN, DE
[71] CONTINENTAL REIFEN DEUTSCHLAND GMBH, DE
[85] 2022-05-26
[86] 2020-10-28 (PCT/EP2020/080316)
[87] (WO2021/121748)
[30] DE (10 2019 220 135.0) 2019-12-19

[21] **3,159,708**
[13] A1
[51] **Int.Cl. B29D 11/00 (2006.01) B29C 43/02 (2006.01) B29D 11/02 (2006.01)**
[25] EN
[54] **DIRECT COMPRESSION MOLDED OPHTHAMLIC DEVICES**
[54] **DISPOSITIFS OPHTALMIQUES MOULES PAR COMPRESSION DIRECTE**
[72] RAO, ARVIND M., US
[72] GRANEY, ANITA M., US
[72] JONES, THOMAS, US
[72] DIBELLA, JAMES, US
[71] BAUSCH + LOMB IRELAND LIMITED, IE
[85] 2022-05-26
[86] 2020-11-25 (PCT/EP2020/083373)
[87] (WO2021/110512)
[30] US (62/942,391) 2019-12-02

[21] **3,159,709**
[13] A1
[51] **Int.Cl. B61L 27/00 (2022.01) B61L 27/04 (2006.01)**
[25] EN
[54] **CONTROL SYSTEM FOR A TRAFFIC NETWORK AND METHOD FOR PREPARING AND/OR ADAPTING SUCH A CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE POUR UN RESEAU DE CIRCULATION ET PROCEDE DE PREPARATION ET/OU D'ADAPTATION D'UN TEL SYSTEME DE COMMANDE**
[72] SCHROTH, ALBRECHT, DE
[72] SCHNEIDER, CARSTEN, DE
[72] BECKER, BJORN, DE
[72] SCHMIDT, BJORN-OLAF, DE
[71] THALES MANAGEMENT & SERVICES DEUTSCHLAND GMBH, DE
[85] 2022-05-26
[86] 2020-11-30 (PCT/EP2020/083896)
[87] (WO2021/110586)
[30] EP (19214093.7) 2019-12-06

[21] **3,159,710**
[13] A1
[51] **Int.Cl. C01B 32/00 (2017.01) C01B 32/05 (2017.01) C01B 32/15 (2017.01) C08J 5/00 (2006.01) C08J 5/24 (2006.01) C08K 3/04 (2006.01) C09C 1/48 (2006.01) C09C 1/50 (2006.01)**
[25] EN
[54] **USE OF CARBON NETWORKS COMPRISING CARBON NANOFIBERS**
[54] **UTILISATION DE RESEAUX DE CARBONE COMPRENANT DES NANOFIBRES DE CARBONE**
[72] VAN RAALTEN, RUTGER ALEXANDER DAVID, NL
[72] SORDI, DANIELA, NL
[72] TEN DAM, JEROEN, NL
[71] CARBONX IP 6 B.V., NL
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083690)
[87] (WO2021/105396)
[30] EP (19212328.9) 2019-11-28

[21] **3,159,711**
[13] A1
[51] **Int.Cl. A23L 33/135 (2016.01) A61K 35/741 (2015.01) A61K 35/74 (2015.01)**
[25] EN
[54] **DESIGNED BACTERIAL COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS BACTERIENNES ET LEURS UTILISATIONS**
[72] MARTINEZ, ASUNCION, US
[72] O'BRIEN, EDWARD J., US
[72] SIMMONS, SHERI LYNN, US
[72] COOK, DAVID, US
[72] HENN, MATTHEW R., US
[72] FORD, CHRISTOPHER B., US
[72] BALASUBRAMANIAN, DIVYA, US
[72] PINA, AMBAR, US
[72] DIAO, LIYANG, US
[72] CHAFEE, MEGHAN, US
[72] VULIC, MARIN, US
[72] NANDAKUMAR, MADHUMITHA, US
[72] DATTA, SUMON, US
[72] JAYARAMAN, LATTA, US
[71] SERES THERAPEUTICS, INC., US
[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062440)
[87] (WO2021/108728)
[30] US (62/941,534) 2019-11-27

[21] **3,159,712**
[13] A1
[51] **Int.Cl. B62B 7/06 (2006.01) B62B 7/08 (2006.01)**
[25] EN
[54] **CHILD SEAT FRAME AND COMPACT COLLAPSIBLE STROLLER**
[54] **CADRE DE SIEGE POUR ENFANT ET POUSSETTE PLIANTE COMPACTE**
[72] HORST, ANDREW J., US
[72] SACK, DANIEL A., US
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2022-05-26
[86] 2020-11-27 (PCT/IB2020/061218)
[87] (WO2021/105945)
[30] US (62/941,303) 2019-11-27

[21] **3,159,716**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **METHOD FOR ANALYZING DEGARELIX AND ASSOCIATED PRODUCTS**
[54] **PROCEDE D'ANALYSE DE DEGARELIX ET PRODUITS ASSOCIES**
[72] LANDE, JAGDISH, US
[72] PATEL, KAMLESH, US
[72] RAHEEMI, UMER, US
[71] FRESENIUS KABI USA, LLC, US
[85] 2022-05-26
[86] 2020-12-03 (PCT/US2020/063114)
[87] (WO2021/113514)
[30] US (62/944,276) 2019-12-05

[21] **3,159,717**
[13] A1
[51] **Int.Cl. G01T 1/29 (2006.01) G01N 23/04 (2018.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SPECTRAL ADJUSTMENT IN DIGITAL X-RAY IMAGING**
[54] **PROCEDE ET APPAREIL DE REGLAGE SPECTRAL POUR IMAGERIE RADIOLOGIQUE NUMERIQUE**
[72] KARIM, KARIM, CA
[72] LOPEZ MAURINO, SEBASTIAN, CA
[71] KA IMAGING INC., CA
[85] 2022-05-26
[86] 2020-11-26 (PCT/CA2020/051619)
[87] (WO2021/102576)
[30] US (62/941,048) 2019-11-27

[21] **3,159,718**
[13] A1
[51] **Int.Cl. C12Q 1/6876 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/686 (2018.01) G16B 30/00 (2019.01) G16B 50/00 (2019.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR PROVIDING IDENTIFICATION AND/OR TRACEABILITY OF BIOLOGICAL MATERIAL**
[54] **PROCEDES ET COMPOSITIONS POUR L'IDENTIFICATION ET/OU LA TRACABILITE D'UN MATERIAU BIOLOGIQUE**
[72] BORG, MICHAEL, CA
[72] FRIEDBERG, JEREMY N., CA
[71] INDEX BIOSYSTEMS INC., CA
[85] 2022-05-26
[86] 2020-11-26 (PCT/CA2020/051622)
[87] (WO2021/102579)
[30] US (62/940,587) 2019-11-26

[21] **3,159,719**
[13] A1
[51] **Int.Cl. A61K 8/9783 (2017.01) A61K 8/44 (2006.01) A61K 8/46 (2006.01) A61Q 5/02 (2006.01)**
[25] FR
[54] **SHAMPOO VETERINARY COMPOSITIONS**
[54] **COMPOSITIONS VETERINAIRES DE TYPE SHAMPOOING**
[72] LUCAS, FREDERIC, FR
[72] COMMEUREC, EMELINE, FR
[72] MAUBERT, NADEGE, FR
[71] CEVA SANTE ANIMALE, FR
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083607)
[87] (WO2021/105339)
[30] EP (19212292.7) 2019-11-28

[21] **3,159,720**
[13] A1
[51] **Int.Cl. A23F 5/12 (2006.01) A23P 10/28 (2016.01)**
[25] EN
[54] **COMPACTED COFFEE TABLET, SYSTEM INCLUDING SAID TABLET AND PRODUCTION PROCESS THEREOF**
[54] **PASTILLE DE CAFE COMPACTEE, SYSTEME COMPRENANT LADITE PASTILLE ET PROCEDE DE PRODUCTION DE CELLE-CI**
[72] NABEIRO, RUI MIGUEL, PT
[72] RODRIGUES, CARLA, PT
[71] NOVADELTA - COMERCIO E INDUSTRIA DE CAFES, LDA, PT
[85] 2022-05-26
[86] 2020-11-20 (PCT/PT2020/050045)
[87] (WO2021/118376)
[30] PT (115959) 2019-12-09

[21] **3,159,722**
[13] A1
[51] **Int.Cl. A61K 31/164 (2006.01) A61K 9/12 (2006.01) A61K 36/8968 (2006.01) A61K 47/20 (2006.01)**
[25] FR
[54] **NON-RINSED VETERINARY COMPOSITIONS**
[54] **COMPOSITIONS VETERINAIRES NON RINCEES**
[72] COMMEUREC, EMELINE, FR
[72] MAUBERT, NADEGE, FR
[71] CEVA SANTE ANIMALE, FR
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083608)
[87] (WO2021/105340)
[30] EP (19212297.6) 2019-11-28

[21] **3,159,724**
[13] A1
[51] **Int.Cl. A23F 5/12 (2006.01) A23P 10/28 (2016.01)**
[25] EN
[54] **ENHANCED COMPACTED TABLET AND SYSTEM FOR EXTRACTION OF BEVERAGES COMPRISING SAID COMPACTED TABLET**
[54] **PASTILLE COMPACTEE AMELIOREE ET SYSTEME D'EXTRACTION DE BOISSONS COMPRENANT LADITE PASTILLE COMPACTEE**
[72] NABEIRO, RUI MIGUEL, PT
[72] RODRIGUES, CARLA, PT
[71] NOVADELTA - COMERCIO E INDUSTRIA DE CAFES, LDA, PT
[85] 2022-05-26
[86] 2020-11-20 (PCT/PT2020/050046)
[87] (WO2021/118377)
[30] PT (115960) 2019-12-09

[21] **3,159,725**
[13] A1
[51] **Int.Cl. G06T 7/10 (2017.01) G06T 19/20 (2011.01)**
[25] EN
[54] **AUGMENTED REALITY-BASED DISPLAY METHOD, DEVICE, AND STORAGE MEDIUM**
[54] **PROCEDE D'AFFICHAGE FONDE SUR LA REALITE AUGMENTEE, DISPOSITIF, ET SUPPORT DE STOCKAGE**
[72] ZHANG, WENHAO, CN
[72] CHEN, ZHILI, US
[72] LIU, ANG, CN
[72] HU, BOYUAN, CN
[72] YU, WEISHAN, US
[71] BEIJING ZITIAO NETWORK TECHNOLOGY CO., LTD., CN
[85] 2022-05-26
[86] 2021-08-26 (PCT/SG2021/050508)
[87] (WO2022/055421)
[30] CN (202010937923.5) 2020-09-09

[21] **3,159,727**
[13] A1
[51] **Int.Cl. C08L 101/12 (2006.01) C08K 3/01 (2018.01) B29C 49/08 (2006.01) B65D 81/30 (2006.01) C08J 3/22 (2006.01)**
[25] EN
[54] **OPACIFIED POLYMERIC COMPOSITIONS**
[54] **COMPOSITIONS POLYMERES OPACIFIEES**
[72] YERIGERI, BHUVANESH C., US
[71] AMERICHEM, US
[85] 2022-05-26
[86] 2020-11-25 (PCT/US2020/062302)
[87] (WO2021/108612)
[30] US (62/941,254) 2019-11-27

[21] **3,159,728**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 35/28 (2015.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING CAR-NK CELLS**
[54] **PROCEDE D'OBTENTION DE CELLULES CAR-NK**
[72] SPANHOLTZ, JAN, NL
[72] RAIMO, MONICA, NL
[72] KUCEROVA, LUCIA, NL
[72] GEERTS, HENDRIKUS ADRIANUS MARIA, NL
[72] LAMERS-KOK, NINA, NL
[71] GLYCOSTEM THERAPEUTICS B.V., NL
[85] 2022-05-26
[86] 2020-11-29 (PCT/NL2020/050745)
[87] (WO2021/107779)
[30] NL (2024334) 2019-11-28

[21] **3,159,729**
[13] A1
[51] **Int.Cl. C40B 40/10 (2006.01) C07K 7/50 (2006.01) C07K 7/64 (2006.01)**
[25] EN
[54] **TECHNOLOGIES USEFUL FOR ASSESSING PERMEABILITY**
[54] **TECHNOLOGIES UTILES POUR EVALUER LA PERMEABILITE**
[72] CHANDHOKE, AMRITA SINGH, US
[72] MADSEN, JAMES ANDREW, US
[72] ZHANG, YUE-MEI, US
[72] MCGEE, JOHN HANNEY, US
[72] FEKKES, MARCO PETER, US
[71] FOG PHARMACEUTICALS, INC., US
[85] 2022-05-26
[86] 2020-12-11 (PCT/US2020/064685)
[87] (WO2021/119537)
[30] US (62/946,736) 2019-12-11

[21] **3,159,730**
[13] A1
[51] **Int.Cl. G01N 33/72 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **NORMALISATION METHOD AND NORMALISATION SYSTEM FOR A DRIED BLOOD MATRIX**
[54] **PROCEDE DE NORMALISATION ET SYSTEME DE NORMALISATION POUR UNE MATRICE DE SANG DESSECHE**
[72] BUCHHOLZ, TINA, DE
[72] KRUGER, NANCY, DE
[72] BLANKENSTEIN, OLIVER, DE
[72] BOHRINGER, FALKO, DE
[71] LABOR BERLIN - CHARITE VIVANTES SERVICES GMBH, DE
[85] 2022-05-26
[86] 2020-11-27 (PCT/EP2020/083627)
[87] (WO2021/105357)
[30] DE (10 2019 218 593.2) 2019-11-29

[21] **3,159,731**
[13] A1
[51] **Int.Cl. B01F 35/40 (2022.01) B01F 35/75 (2022.01) E02D 3/12 (2006.01) C09K 17/40 (2006.01)**
[25] EN
[54] **MIXING DEVICE FOR SILT FINE SOIL**
[54] **DISPOSITIF DE MELANGE POUR SOL FIN A BASE DE LIMON**
[72] DOMINGUEZ, YAMIL, US
[71] POLYMER TECHNOLOGIES WORLDWIDE, INC., US
[85] 2022-05-26
[86] 2019-11-26 (PCT/US2019/063176)
[87] (WO2021/107921)

[21] **3,159,732**
[13] A1
[51] **Int.Cl. H05B 47/10 (2020.01) H05B 47/16 (2020.01) H05B 47/165 (2020.01)**
[25] EN
[54] **SMART WALL-PLATE SYSTEM**
[54] **SYSTEME DE PLAQUE MURALE INTELLIGENTE**
[72] SHURTE, JAMES, US
[72] GUMINA, RONALD J., US
[72] ARD, AARON, US
[72] SALAZAR, CARLOS, US
[72] ARBOUR, RYAN L., US
[72] GILLARD, JASON, US
[71] LEVITON MANUFACTURING CO., INC., US
[85] 2022-05-26
[86] 2020-11-03 (PCT/US2020/058642)
[87] (WO2021/133467)
[30] US (62/953,269) 2019-12-24

[21] **3,159,733**
[13] A1
[51] **Int.Cl. H02S 50/10 (2014.01)**
[25] EN
[54] **REUSABLE INTERFACE FOR SOLAR CELL TEST AND CHARACTERIZATION**
[54] **INTERFACE REUTILISABLE POUR TEST ET CARACTERISATION DE CELLULES SOLAIRES**
[72] IRWIN, MICHAEL DAVID, US
[72] LOVELACE, JEROME R., US
[71] CUBICPV INC., US
[85] 2022-05-26
[86] 2020-11-27 (PCT/US2020/062512)
[87] (WO2021/108774)
[30] US (62/941,361) 2019-11-27

[21] **3,159,735**
[13] A1
[51] **Int.Cl. A61M 11/00 (2006.01) A61M 15/00 (2006.01)**
[25] EN
[54] **INHALER DEVICES, MEDICATION FORMULATIONS USED THEREWITH AND METHODS OF MANUFACTURE**
[54] **DISPOSITIFS INHALATEURS, FORMULATIONS DE MEDICAMENT UTILISEES AVEC CES DISPOSITIFS ET PROCEDES DE FABRICATION**
[72] ELIAHU, AVI, US
[72] ABERCROMBIE, STUART, GB
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-05-26
[86] 2020-12-09 (PCT/US2020/063889)
[87] (WO2021/119055)
[30] US (62/945,748) 2019-12-09

[21] **3,159,736**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G06Q 20/32 (2012.01) G06Q 30/06 (2012.01) G06F 21/64 (2013.01)**
[25] EN
[54] **IMAGE-BASED RECORD LINKAGE**
[54] **LIAISON D'ENREGISTREMENT A BASE D'IMAGE**
[72] STAHL, HENRIK, SE
[71] KLARNA BANK AB, SE
[85] 2022-05-26
[86] 2020-11-23 (PCT/IB2020/061055)
[87] (WO2021/105859)
[30] US (16/698,539) 2019-11-27

[21] **3,159,737**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01)**
[25] EN
[54] **TAL-EFFECTOR NUCLEASES FOR GENE EDITING**
[54] **NUCLEASES EFFECTRICES TAL POUR L'EDITION DE GENES**
[72] DEMOREST, ZACHARY, US
[71] CALYXT, INC., US
[85] 2022-05-26
[86] 2020-11-20 (PCT/US2020/061473)
[87] (WO2021/108248)
[30] US (62/941,568) 2019-11-27
[30] US (63/020,197) 2020-05-05

[21] **3,159,739**
[13] A1
[51] **Int.Cl. H05H 1/00 (2006.01) F04B 37/12 (2006.01) F04B 37/18 (2006.01) H05H 1/24 (2006.01)**
[25] EN
[54] **PLASMA COMPRESSION DRIVER**
[54] **DISPOSITIF D'ENTRAINEMENT DE COMPRESSION DE PLASMA**
[72] WILKIE, JAMES HASTINGS, CA
[72] ZIMMERMANN, JOERG, CA
[72] WIGHT, MARTIN CLIFFORD, CA
[72] ESAU, CODY JOHN PAVEL, CA
[72] KHALZOV, IVAN VICTOROVICH, CA
[71] GENERAL FUSION INC., CA
[85] 2022-05-26
[86] 2020-12-02 (PCT/CA2020/051655)
[87] (WO2021/108908)
[30] US (62/942,723) 2019-12-02

[21] **3,159,741**
[13] A1
[51] **Int.Cl. B25J 19/00 (2006.01) F16G 13/16 (2006.01) H02G 3/04 (2006.01) H02G 11/00 (2006.01)**
[25] EN
[54] **LINE GUIDE DEVICE FOR CLEANROOM APPLICATIONS, AND ALSO SUPPORTING CHAIN AND CHAIN LINK FOR IT**
[54] **DISPOSITIF DE GUIDAGE DE LIGNE POUR DES APPLICATIONS DE SALLE BLANCHE, AINSI QUE CHAINE DE SUPPORT ET MAILLON DE CHAINE POUR CELUI-CI**
[72] BARTEN, DOMINIK, DE
[72] MATTONET, PETER, DE
[71] IGUS GMBH, DE
[85] 2022-05-26
[86] 2020-12-11 (PCT/EP2020/085861)
[87] (WO2021/116467)
[30] DE (20 2019 106 979.1) 2019-12-13

[21] **3,159,743**
[13] A1
[51] **Int.Cl. C12P 19/34 (2006.01) C12Q 1/686 (2018.01) C12Q 1/6876 (2018.01) C12Q 1/6881 (2018.01) C12Q 1/6883 (2018.01)**
[25] EN
[54] **POLYNUCLEOTIDES FOR AMPLIFICATION AND DETECTION OF HUMAN BETA ACTIN**
[54] **POLYNUCLEOTIDES POUR L'AMPLIFICATION ET LA DETECTION DE LA BETA-ACTINE HUMAINE**
[72] CASOLARI, JASON M., US
[72] JIANG, XUEWEN, US
[72] MAAMAR, HEDIA, US
[71] TALIS BIOMEDICAL CORPORATION, US
[85] 2022-05-26
[86] 2020-12-01 (PCT/US2020/062752)
[87] (WO2021/113267)
[30] US (16/700,824) 2019-12-02

[21] **3,159,744**
[13] A1
[51] **Int.Cl. A61K 38/08 (2019.01) A61P 3/14 (2006.01) A61P 5/00 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **CALCIUM-SENSING RECEPTOR AGONIST COMPOUND AND APPLICATION THEREOF**
[54] **COMPOSE AGONISTE DU RECEPTEUR DE DETECTION DU CALCIUM ET SON APPLICATION**
[72] WU, FANGZHOU, CN
[72] ZHANG, JIN, CN
[72] GAO, FEI, CN
[72] WU, RAN, CN
[72] LIAO, CHENG, CN
[72] WANG, LEI, CN
[71] BEIJING TUO JIE BIOPHARMACEUTICAL CO. LTD., CN
[85] 2022-05-26
[86] 2020-12-08 (PCT/CN2020/134598)
[87] (WO2021/115272)
[30] CN (201911250088.1) 2019-12-09

[21] **3,159,771**
[13] A1
[51] **Int.Cl. A61K 31/353 (2006.01) A61K 31/675 (2006.01) A61P 9/08 (2006.01) A61P 11/06 (2006.01) A61P 13/10 (2006.01) A61P 15/10 (2006.01) A61P 17/14 (2006.01) A61P 27/06 (2006.01) C07D 285/24 (2006.01) C07D 311/20 (2006.01) C07D 311/70 (2006.01)**
[25] EN
[54] **CONTROLLED-DELIVERY CROMAKALIM PRODRUGS**
[54] **PROMEDICAMENTS DE CROMAKALIM A LIBERATION CONTROLEE**
[72] HTOO, THUREIN M., US
[72] WIROSTKO, BARBARA M., US
[72] FAUTSCH, MICHAEL P., US
[72] GARNETT, IAN, GB
[72] MASSARENTI, CHIARA, GB
[71] QLARIS BIO, INC., US
[71] MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, US
[85] 2022-05-27
[86] 2020-12-11 (PCT/US2020/064629)
[87] (WO2021/119503)
[30] US (62/947,342) 2019-12-12

[21] **3,159,778**
[13] A1
[51] **Int.Cl. A61K 31/56 (2006.01) A61K 31/58 (2006.01) A61P 9/10 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 25/00 (2006.01) A61P 25/02 (2006.01) A61P 25/04 (2006.01) A61P 25/08 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01) A61P 27/14 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07J 63/00 (2006.01)**
[25] EN
[54] **SYNTHETIC TRITERPENOIDS WITH NITROGEN-BASED SUBSTITUENTS AT C-17 AND METHODS OF USE THEREOF**
[54] **TRITERPENOIDES SYNTHETIQUES COMPRENANT DES SUBSTITUANTS A BASE D'AZOTE EN C-17 ET LEURS METHODES D'UTILISATION**
[72] BENDER, CHRISTOPHER F., US
[72] DO, HA, US
[72] JIANG, XIN, US
[72] SUN, HAIZHOU, US
[72] VISNICK, MELEAN, US
[72] JANSER, INGO, US
[72] SIMONS, LLOYD J., US
[72] SCHOSTAREZ, HEINRICH J., US
[71] REATA PHARMACEUTICALS, INC., US
[85] 2022-05-27
[86] 2020-12-18 (PCT/US2020/066073)
[87] (WO2021/127480)
[30] US (62/950,919) 2019-12-19
[30] US (63/198,310) 2020-10-09
[30] US (62/950,927) 2019-12-19

[21] **3,159,797**
[13] A1
[51] **Int.Cl. A61K 35/76 (2015.01) G16B 5/30 (2019.01)**
[25] EN
[54] **MACHINE LEARNING SYSTEM FOR INTERPRETING HOST PHAGE RESPONSE**
[54] **SYSTEME D'APPRENTISSAGE AUTOMATIQUE POUR INTERPRETER UNE REPONSE DE PHAGE HOTE**
[72] COHEN, ROB, US
[72] MERRIL, GREG, US
[72] BARRETO-SANZ, MIGUEL, CH
[72] AGRAWAL, PRIYESH, IN
[71] ADAPTIVE PHAGE THERAPEUTICS, INC., US
[85] 2022-05-27
[86] 2020-12-23 (PCT/US2020/066788)
[87] (WO2021/138183)
[30] US (62/955,995) 2019-12-31

[21] **3,159,799**
[13] A1
[51] **Int.Cl. C12N 5/10 (2006.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 9/80 (2006.01) C12N 15/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **ENGINEERING CIRCULAR GUIDE RNAS**
[54] **INGENIERIE D'ARN GUIDES CIRCULAIRES**
[72] MALI, PRASHANT, US
[72] KATREKAR, DHRUVA, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-05-27
[86] 2020-12-01 (PCT/US2020/062748)
[87] (WO2021/113264)
[30] US (62/942,725) 2019-12-02
[30] US (63/112,492) 2020-11-11

[21] **3,159,800**
[13] A1
[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/46 (2020.01) A24F 40/50 (2020.01) A24F 40/20 (2020.01) A24F 40/65 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] KABIRAT, JUNIOR, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083807)
[87] (WO2021/105484)
[30] GB (1917482.0) 2019-11-29

[21] **3,159,802**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) A61K 47/68 (2017.01)**
[25] EN
[54] **SEPARATED ANTIGEN AXL BINDING PROTEIN AND USE THEREOF**
[54] **PROTEINE DE LIAISON A UN ANTIGENE SEPAREE AXL ET SON UTILISATION**
[72] LV, MING, CN
[72] DING, XIAORAN, CN
[72] MIAO, SHIWEI, CN
[72] TAN, BIN, CN
[72] WANG, XUEGONG, CN
[71] SUMGEN MAB (BEIJING) BIOTECH CO., LTD., CN
[71] HANGZHOU SUMGEN BIOTECH CO., LTD., CN
[85] 2022-05-27
[86] 2020-11-27 (PCT/CN2020/132456)
[87] (WO2021/104496)
[30] CN (201911187949.6) 2019-11-28

[21] **3,159,804**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **MOIST ORAL COMPOSITIONS**
[54] **COMPOSITIONS ORALES HUMIDES**
[72] HOLTON, JR. DARRELL EUGENE, US
[72] BEESON, DWAYNE WILLIAM, GB
[72] GESSESSE, JR. ANDINET AMARE, GB
[72] HUNT, PHILIP RICHARD, GB
[72] HUTCHENS, RONALD K., GB
[72] KELLER, CHRISTOPHER, GB
[72] POOLE, THOMAS H., GB
[72] ST. CHARLES, FRANK KELLEY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-12-03 (PCT/IB2020/061416)
[87] (WO2021/116841)
[30] US (16/707,351) 2019-12-09

[21] **3,159,805**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **REGULATORY NUCLEIC ACID MOLECULES FOR ENHANCING GENE EXPRESSION IN PLANTS**
[54] **MOLECULES D'ACIDES NUCLEIQUES REGULATRICES POUR AMELIORER L'EXPRESSION GENIQUE DANS DES PLANTES**
[72] MEULEWAETER, FRANK, BE
[72] LISERON-MONFILS, CHRISTOPHE, BE
[71] BASF SE, DE
[85] 2022-05-27
[86] 2020-11-30 (PCT/EP2020/083879)
[87] (WO2021/110582)
[30] EP (19213158.9) 2019-12-03

[21] **3,159,809**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61K 31/713 (2006.01) C07K 14/005 (2006.01) C07K 14/52 (2006.01) C07K 14/54 (2006.01) C07K 14/565 (2006.01) C07K 14/65 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR SIMULTANEOUSLY MODULATING EXPRESSION OF GENES**
[54] **COMPOSITIONS ET METHODES POUR LA MODULATION DE L'EXPRESSION DE GENES DE MANIERE SIMULTANEE**
[72] METZGER, FRIEDRICH, CH
[72] SCHAFFHAUSER, HERVE, CH
[72] HILMANN-WULLNER, PETRA, CH
[72] SELVARAJ, JUSTIN ANTHONY, CH
[71] VERSAMEB AG, CH
[85] 2022-05-27
[86] 2020-12-21 (PCT/IB2020/001091)
[87] (WO2021/130537)
[30] EP (19219276.3) 2019-12-23
[30] US (63/042,890) 2020-06-23

[21] **3,159,810**
[13] A1
[51] **Int.Cl. A61K 35/32 (2015.01) C12N 5/077 (2010.01) C12N 5/0775 (2010.01) A61L 27/36 (2006.01) A61L 27/38 (2006.01) A61L 27/46 (2006.01) A61L 27/48 (2006.01)**
[25] EN
[54] **BIOMATERIALS FOR THE PREVENTION AND THE TREATMENT OF TISSUE DISORDERS**
[54] **BIOMATERIAUX POUR LA PREVENTION ET LE TRAITEMENT DE TROUBLES TISSULAIRES**
[72] DUFRANE, DENIS, BE
[72] THEYS, NICOLAS, BE
[71] NOVADIP BIOSCIENCES, BE
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083702)
[87] (WO2021/105404)
[30] EP (19212654.8) 2019-11-29
[30] EP (19212634.0) 2019-11-29

[21] **3,159,811**
[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/20 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] ABI AOUN, WALID, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083801)
[87] (WO2021/105479)
[30] GB (1917451.5) 2019-11-29

[21] **3,159,813**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01) A24B 15/30 (2006.01)**
[25] EN
[54] **ORAL PRODUCT WITH DISSOLVABLE COMPONENT**
[54] **PRODUIT ORAL A COMPOSANT SOLUBLE**
[72] HOLTON, JR. DARRELL EUGENE, US
[72] BEESON, DWAYNE WILLIAM, GB
[72] HUTCHENS, RONALD K., GB
[72] KELLER, CHRISTOPHER, GB
[72] POOLE, THOMAS H., GB
[72] ST. CHARLES, FRANK KELLEY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-12-03 (PCT/IB2020/061462)
[87] (WO2021/116852)
[30] US (62/945,578) 2019-12-09

[21] **3,159,814**
[13] A1
[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/46 (2020.01) A24F 40/465 (2020.01)**
[25] EN
[54] **ELECTRONIC AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL ELECTRONIQUE**
[72] BENNING, JOCELYN, GB
[72] REES, KELLY, GB
[72] ABI AOUN, WALID, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083800)
[87] (WO2021/105478)
[30] GB (1917474.7) 2019-11-29

[21] **3,159,816**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/12 (2006.01) A61P 11/02 (2006.01) A61P 11/06 (2006.01)**
[25] EN
[54] **NASAL SPRAY COMPOSITIONS AND RELATED TREATMENT METHODS**
[54] **COMPOSITIONS DE PULVERISATION NASALE ET PROCEDES DE TRAITEMENT ASSOCIES**
[72] FERRER, GUSTAVO, US
[71] FERRER MEDICAL INNOVATIONS, LLC, US
[85] 2022-05-27
[86] 2020-02-14 (PCT/US2020/018430)
[87] (WO2020/168289)
[30] US (62/806,364) 2019-02-15

[21] **3,159,817**
[13] A1
[51] **Int.Cl. B25C 1/18 (2006.01) E04C 2/42 (2006.01) F16B 19/14 (2006.01) H02G 3/32 (2006.01)**
[25] EN
[54] **FASTENING ELEMENT**
[54] **ELEMENT DE FIXATION**
[72] YANG, DENNIS, CN
[72] SHU, XINYU, CN
[72] GOLDT, MATHIAS, CN
[72] YANG, RACHEL, CN
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2022-05-27
[86] 2021-01-20 (PCT/EP2021/051134)
[87] (WO2021/148435)
[30] CN (202010069299.1) 2020-01-21

[21] **3,159,820**
[13] A1
[51] **Int.Cl. B42D 25/36 (2014.01) G07D 7/1205 (2016.01) G07D 7/202 (2016.01)**
[25] EN
[54] **CODED POLYMER SUBSTRATES FOR BANKNOTE AUTHENTICATION**
[54] **SUBSTRATS POLYMERES CODES POUR L'AUTHENTIFICATION DE BILLETS DE BANQUE**
[72] LAWANDY, NABIL, US
[71] SPECTRA SYSTEMS CORPORATION, US
[85] 2022-05-27
[86] 2020-12-02 (PCT/US2020/062872)
[87] (WO2021/113349)
[30] US (16/702,088) 2019-12-03

[21] **3,159,821**
[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01) C12Q 1/689 (2018.01) G16H 10/40 (2018.01) G16H 10/60 (2018.01) G16H 20/10 (2018.01) G16H 40/20 (2018.01) G16H 50/70 (2018.01) G16H 50/80 (2018.01) G16H 70/60 (2018.01) G16B 20/00 (2019.01) G16B 40/00 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD TO SELECT PHAGE THERAPY BASED ON TIME AND LOCATION**
[54] **SYSTEME ET PROCEDE DE SELECTION DE PHAGOTHERAPIES EN FONCTION DU TEMPS ET DU LIEU**
[72] MERRIL, GREG, US
[72] COHEN, ROB, US
[71] ADAPTIVE PHAGE THERAPEUTICS, INC., US
[85] 2022-05-27
[86] 2020-12-24 (PCT/US2020/067003)
[87] (WO2021/138218)
[30] US (62/956,729) 2020-01-03

[21] **3,159,822**
[13] A1
[51] **Int.Cl. B64C 39/02 (2006.01) B64D 1/22 (2006.01)**
[25] EN
[54] **MULTIPLE HOIST DELIVERY SYSTEM FOR DELIVERING PARCELS USING UNMANNED AERIAL VEHICLES**
[54] **SYSTEME DE DISTRIBUTION A TREUILS MULTIPLES PERMETTANT DE DISTRIBUER DES PAQUETS A L'AIDE DE VEHICULES AERIENS SANS PILOTE**
[72] PASS, JOHN, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2022-05-27
[86] 2020-12-02 (PCT/US2020/062849)
[87] (WO2021/113331)
[30] US (62/942,493) 2019-12-02
[30] US (17/108,613) 2020-12-01

[21] **3,159,823**
[13] A1
[51] **Int.Cl. E04G 5/00 (2006.01) E04G 1/17 (2006.01) E04G 5/08 (2006.01)**
[25] EN
[54] **INDEPENDENT SELF-CLIMBING FORM SYSTEM FOR BUILDING VERTICAL STRUCTURES**
[54] **SYSTEME DE COFFRAGE AUTO-GRIMPANT INDEPENDANT POUR CONSTRUIRE DES STRUCTURES VERTICALES**
[72] MORK, OLIVER, AU
[71] OM ENGINEERING PTY LTD, AU
[85] 2022-05-27
[86] 2020-11-04 (PCT/IB2020/020070)
[87] (WO2021/105771)
[30] US (62/941,306) 2019-11-27

[21] **3,159,824**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01)**
[25] EN
[54] **ADJUSTABLE STIFFENER FOR SURGICAL INSTRUMENTS**
[54] **RAIDISSEUR AJUSTABLE POUR INSTRUMENTS CHIRURGICAUX**
[72] CHEN, BILL, US
[72] CHON, JAMES Y., US
[72] UNDERWOOD, JOHN R., US
[71] ALCON INC., CH
[85] 2022-05-27
[86] 2020-12-09 (PCT/IB2020/061690)
[87] (WO2021/116932)
[30] US (62/946,598) 2019-12-11

[21] **3,159,825**
[13] A1
[51] **Int.Cl. F15B 11/16 (2006.01) F15B 13/08 (2006.01)**
[25] EN
[54] **CONFIGURABLE FLUID COMPRESSION APPARATUS, CONTROL, AND ASSOCIATED METHODS**
[54] **APPAREIL DE COMPRESSION DE FLUIDE CONFIGURABLE, COMMANDE ET PROCEDES ASSOCIES**
[72] SAHM, DOUGLAS A., US
[72] DEPEW, CARSON, US
[71] TPE MIDSTREAM LLC, US
[85] 2022-05-27
[86] 2021-08-24 (PCT/US2021/047338)
[87] (WO2022/046761)
[30] US (63/070,631) 2020-08-26
[30] US (63/125,757) 2020-12-15

[21] **3,159,826**
[13] A1
[51] **Int.Cl. H01R 9/24 (2006.01)**
[25] EN
[54] **TERMINAL BLOCK AND TERMINAL BLOCK ASSEMBLY FOR MEDIUM TO HIGH VOLTAGE APPLICATIONS**
[54] **BORNIER ET ENSEMBLE BORNIER DESTINE A DES APPLICATIONS MOYENNE TENSION A HAUTE TENSION**
[72] JAWORSKI, BRADLEY S., US
[72] MORICO, PETER D., US
[71] RAYTHEON COMPANY, US
[85] 2022-05-27
[86] 2020-10-20 (PCT/US2020/056487)
[87] (WO2021/126361)
[30] US (62/952,021) 2019-12-20
[30] US (16/742,822) 2020-01-14

[21] **3,159,827**
[13] A1
[51] **Int.Cl. G01N 21/78 (2006.01) C25D 11/08 (2006.01) C25D 11/10 (2006.01) C25D 11/20 (2006.01)**
[25] EN
[54] **OPTICAL INTERFERENCE DIAGNOSTIC APPARATUS AND METHODS OF USE**
[54] **APPAREIL DE DIAGNOSTIC D'INTERFERENCE OPTIQUE ET PROCEDES D'UTILISATION**
[72] NICKEL, MATTHEW R., CA
[72] SWEET, HILLARY M., CA
[71] SN BIOMEDICAL INC., CA
[85] 2022-05-27
[86] 2020-12-16 (PCT/CA2020/051730)
[87] (WO2021/119814)
[30] US (62/951,560) 2019-12-20

[21] **3,159,829**
[13] A1
[51] **Int.Cl. F16K 24/04 (2006.01) F16K 15/04 (2006.01) F16K 15/20 (2006.01)**
[25] EN
[54] **VALVE EVACUATION APPARATUS, CONTROL, AND ASSOCIATED METHODS**
[54] **APPAREIL D'EVACUATION DE VANNE, COMMANDE ET PROCEDES ASSOCIES**
[72] SAHM, DOUGLAS A., US
[71] TPE MIDSTREAM LLC, US
[85] 2022-05-27
[86] 2021-09-02 (PCT/US2021/048902)
[87] (WO2022/051525)
[30] US (63/074,741) 2020-09-04
[30] US (63/125,761) 2020-12-15

[21] **3,159,830**
[13] A1
[51] **Int.Cl. F04B 39/12 (2006.01) F04B 49/00 (2006.01) F04B 49/06 (2006.01) F16L 1/06 (2006.01) F16L 55/07 (2006.01) F16L 55/10 (2006.01)**
[25] EN
[54] **VACUUM-ENABLED FLUID COMPRESSION AND EVACUATION APPARATUS, CONTROL, AND ASSOCIATED METHODS**
[54] **APPAREIL DE COMPRESSION ET D'EVACUATION DE FLUIDE ACTIVE SOUS VIDE, COMMANDE ET PROCEDES ASSOCIES**
[72] SAHM, DOUGLAS A., US
[71] TPE MIDSTREAM LLC, US
[85] 2022-05-27
[86] 2021-09-01 (PCT/US2021/048712)
[87] (WO2022/051396)
[30] US (63/073,649) 2020-09-02
[30] US (63/125,762) 2020-12-15

[21] **3,159,831**
[13] A1
[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/26 (2006.01)**
[25] EN
[54] **DOWNHOLE FIBER OPTIC CONNECTOR WITH FIBER CHANNEL INDEPENDENT TESTING APPARATUS**
[54] **CONNECTEUR DE FIBRES OPTIQUES DE FOND DE TROU AVEC APPAREIL DE TEST INDEPENDANT DE CANAL DE FIBRE**
[72] CHRISTOPHER, SCOTT, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062123)
[87] (WO2021/113133)
[30] US (16/703,212) 2019-12-04

[21] **3,159,834**
[13] A1
[51] **Int.Cl. B60K 15/067 (2006.01) B62D 21/08 (2006.01) B62D 21/18 (2006.01) B62D 27/02 (2006.01)**
[25] EN
[54] **HAUL TRUCK SPACE FRAME MOUNTING ARRANGEMENT**
[54] **AGENCEMENT DE MONTAGE DE CADRE DE CHASSIS EN TREILLIS DE CAMION DE ROULAGE**
[72] LOUIS, JARED E., US
[72] RISATTI, BRUNO L., US
[72] HOLTHAUS, DAVID W., US
[71] CATERPILLAR INC., US
[85] 2022-05-27
[86] 2020-11-30 (PCT/US2020/062547)
[87] (WO2021/113160)
[30] US (16/663,898) 2019-12-05

[21] **3,159,835**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01)**
[25] EN
[54] **4-[[(7-AMINOPYRAZOLO[1,5-A]PYRIMIDIN-5-YL)AMINO]METHYL]PIPERIDIN-3-OL COMPOUNDS AND THEIR THERAPEUTIC USE**
[54] **COMPOSES DE 4-[[(7-AMINOPYRAZOLO[1,5-A]PYRIMIDIN-5-YL)AMINO]METHYL]PIPERIDIN-3-OL ET LEUR UTILISATION THERAPEUTIQUE**
[72] AINSCOW, EDWARD, IE
[72] BAHL, ASHWANI, IE
[72] SUNOSE, MIHIRO, GB
[72] CREPIN, DAMIEN FRANCIS PHILIPPE, GB
[72] CHOHAN, KAMALDEEP KAUR, GB
[72] STEVENSON, BRETT, GB
[72] SHIERS, JASON JOHN, GB
[71] CARRICK THERAPEUTICS LIMITED, IE
[85] 2022-05-27
[86] 2020-12-16 (PCT/EP2020/086419)
[87] (WO2021/122745)
[30] GB (1918541.2) 2019-12-16

[21] **3,159,837**
[13] A1
[51] **Int.Cl. B65D 81/20 (2006.01)**
[25] EN
[54] **PACKAGING FOR WATER-SOLUBLE UNIT**
[54] **EMBALLAGE POUR UNITE SOLUBLE DANS L'EAU**
[72] HELMAN, FLORIN, IL
[72] HEVRONI, LIRON, IL
[72] GOLAN, DANI, IL
[72] LEWENSOHN, BENJAMIN, IL
[71] ADAMA MAKHTESHIM LTD., IL
[85] 2022-05-27
[86] 2020-11-29 (PCT/IL2020/051229)
[87] (WO2021/106002)
[30] US (62/941,901) 2019-11-29

[21] **3,159,838**
[13] A1
[51] **Int.Cl. E21B 47/00 (2012.01) E21B 47/125 (2012.01) E21B 47/13 (2012.01) E21B 47/01 (2012.01) E21B 47/06 (2012.01)**
[25] EN
[54] **TOOL FOR USE IN WELL TUBING AND METHOD OF USING SAME**
[54] **OUTIL DESTINE A ETRE UTILISE DANS UN TUBAGE DE PUITS ET SON PROCEDE D'UTILISATION**
[72] DULLAGE, BRYAN, GB
[72] BOGDANOV, OLEG, GB
[71] EXPRO NORTH SEA LIMITED, GB
[85] 2022-05-27
[86] 2020-11-26 (PCT/GB2020/053017)
[87] (WO2021/105686)
[30] GB (1917190.9) 2019-11-26

[21] **3,159,839**
[13] A1
[51] **Int.Cl. E21B 47/125 (2012.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TRANSMITTING ELECTRIC SIGNALS OR POWER USING A FIBER OPTIC CABLE**
[54] **PROCEDE ET APPAREIL DE TRANSMISSION DE SIGNAUX ELECTRIQUES OU D'ENERGIE A L'AIDE D'UN CABLE A FIBRE OPTIQUE**
[72] MAJID, JAVID, US
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US
[85] 2022-05-27
[86] 2020-12-03 (PCT/US2020/063015)
[87] (WO2021/118854)
[30] US (16/708,945) 2019-12-10

[21] **3,159,840**
[13] A1
[51] **Int.Cl. A61M 37/00 (2006.01)**
[25] EN
[54] **MICRONEEDLE ARRAY, ACTUATOR AND METHOD OF USE**
[54] **RESEAU DE MICRO-AIGUILLES, ACTIONNEUR ET PROCEDE D'UTILISATION**
[72] ETTORI, MAXIME, CH
[72] NELSON, CRAIG, GB
[72] NOBLE, MICHAEL, GB
[72] SOMERVILLE, JOHN, GB
[71] ARES TRADING S.A., CH
[85] 2022-05-27
[86] 2019-12-20 (PCT/EP2019/086853)
[87] (WO2021/121638)

[21] **3,159,841**
[13] A1
[51] **Int.Cl. G05B 15/02 (2006.01) F24F 11/52 (2018.01) G05B 23/02 (2006.01) G06F 3/048 (2013.01)**
[25] EN
[54] **HIERACHICAL BUILDING PERFORMANCE DASHBOARD WITH KEY PERFORMANCE INDICATORS ALONGSIDE RELEVANT SERVICE CASES**
[54] **TABLEAU DE BORD HIERARCHIQUE DE PERFORMANCES DE BATIMENT AVEC INDICATEURS DE PERFORMANCES CLES PARALLELEMENT A DES CAS DE SERVICE PERTINENTS**
[72] LO, ANDREW, AU
[72] PARMAR, ASHISH, AU
[72] BOOTHROYD, JOHN, AU
[72] SCHERF, RONNY, DE
[72] TARANATH, MANU, IN
[71] HONEYWELL INTERNATIONAL INC., US
[85] 2022-05-27
[86] 2020-12-10 (PCT/US2020/064332)
[87] (WO2021/119328)
[30] US (62/946,189) 2019-12-10

[21] **3,159,842**
[13] A1
[51] **Int.Cl. A61K 47/60 (2017.01) A61K 47/55 (2017.01) A61K 45/06 (2006.01)**
[25] EN
[54] **POLYETHYLENE GLYCOL CONJUGATE MEDICAMENT, PREPARATION METHOD THERFOR AND USE THEREOF**
[54] **MEDICAMENT CONJUGUE DE POLYETHYLENE GLYCOL, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] LI, GAOQUAN, CN
[72] LI, DAJUN, CN
[72] ZHANG, QIAN, CN
[72] WEI, YUSONG, CN
[72] PENG, YONGCHEN, CN
[72] YANG, XIANGWEI, CN
[72] ZENG, XIAFAN, CN
[72] MEI, GANG, CN
[72] LI, DIEDIE, CN
[72] GAO, CHENGZHI, CN
[72] DING, XIAOLING, CN
[72] LIU, YUE, CN
[72] GAO, JIA, CN
[72] YI, YUYANG, CN
[72] HENG, YANXIA, CN
[72] LIU, XI, CN
[72] TU, TAO, CN
[72] WANG, KAI, CN
[72] LIU, LIWEI, CN
[72] LIU, MEI, CN
[72] LUO, QIANG, CN
[72] TANG, XIAO, CN
[72] LOU, JIE, CN
[72] CHEN, HUIYU, CN
[72] YANG, YUE, CN
[72] WANG, YUANQIANG, CN
[71] CHONGQING UPGRA BIOTECHNOLOGY CO., LTD., CN
[85] 2022-05-27
[86] 2020-11-18 (PCT/CN2020/129705)
[87] (WO2021/104120)
[30] CN (201911190064.1) 2019-11-28
[30] CN (202010737415.2) 2020-07-28
[30] CN (202010738638.0) 2020-07-28

[21] **3,159,844**
[13] A1
[51] **Int.Cl. C05F 5/00 (2006.01) C05G 3/70 (2020.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PATHOGEN MITIGATION IN ORGANIC MATERIALS**
[54] **PROCEDES ET SYSTEMES D'ATTENUATION D'AGENTS PATHOGENES DANS DES MATIERES ORGANIQUES**
[72] PARIS, WARREN CLARK, US
[72] BISWAS, RAJIB, US
[71] PLANT RESPONSE, INC., US
[85] 2022-05-27
[86] 2020-12-16 (PCT/US2020/065395)
[87] (WO2021/127034)
[30] US (62/949,232) 2019-12-17

[21] **3,159,846**
[13] A1
[51] **Int.Cl. A61B 18/12 (2006.01) H03K 3/335 (2006.01)**
[25] EN
[54] **PULSE GENERATING CIRCUIT, AND ELECTROSURGICAL GENERATOR INCORPORATING THE SAME**
[54] **CIRCUIT DE GENERATION D'IMPULSIONS ET GENERATEUR ELECTROCHIRURGICAL L'INCORPORANT**
[72] HANCOCK, CHRISTOPHER PAUL, GB
[72] DAVIES, ILAN, GB
[72] HODGKINS, GEORGE, GB
[71] CREO MEDICAL LIMITED, GB
[85] 2022-05-27
[86] 2020-11-30 (PCT/EP2020/083975)
[87] (WO2021/110605)
[30] GB (1917695.7) 2019-12-04

[21] **3,159,848**
[13] A1
[51] **Int.Cl. G06Q 30/02 (2012.01) G06V 20/00 (2022.01) G06F 3/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DISPLAYING VIDEO DATA IN A TARGET ENVIRONMENT**
[54] **SYSTEME ET PROCEDE D'AFFICHAGE DE VIDEO DANS UN ENVIRONNEMENT CIBLE**
[72] ALLEN, JOE, IE
[71] EVERSEEN LIMITED, IE
[85] 2022-05-27
[86] 2020-10-27 (PCT/IB2020/060059)
[87] (WO2021/123945)
[30] US (16/722,073) 2019-12-20

[21] **3,159,849**
[13] A1
[51] **Int.Cl. B01D 46/10 (2006.01) H02K 9/26 (2006.01)**
[25] EN
[54] **FILTERING DEVICE, GENERATOR AND WIND TURBINE GENERATOR SYSTEM**
[54] **DISPOSITIF DE FILTRAGE, GENERATEUR ET SYSTEME DE GENERATEUR D'EOLIENNE**
[72] ZHAO, JIANGWEI, CN
[71] BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., CN
[85] 2022-05-27
[86] 2020-08-25 (PCT/CN2020/111087)
[87] (WO2021/103685)
[30] CN (201911192768.2) 2019-11-28

[21] **3,159,850**
[13] A1
[51] **Int.Cl. B60P 3/06 (2006.01) B25H 5/00 (2006.01)**
[25] EN
[54] **STORAGE CONTAINER FOR A TRAILER**
[54] **CONTENANT DE STOCKAGE POUR UNE REMORQUE**
[72] BRADSHAW, STEPHEN, GB
[71] ATE HOLDINGS LTD, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/GB2020/053039)
[87] (WO2021/105702)
[30] GB (1917496.0) 2019-11-29
[30] GB (2002856.9) 2020-02-28

[21] **3,159,851**
[13] A1
[51] **Int.Cl. C08F 236/10 (2006.01) C08F 236/14 (2006.01) C08L 9/08 (2006.01)**
[25] EN
[54] **POLYMER LATEX FOR USE IN CONSTRUCTION APPLICATIONS**
[54] **LATEX POLYMERE POUR UNE UTILISATION DANS DES APPLICATIONS DE CONSTRUCTION**
[72] BOHM, NICOLAI, DE
[72] ARAUJO, ODAIR, DE
[71] SYNTHOMER DEUTSCHLAND GMBH, DE
[85] 2022-05-27
[86] 2020-12-07 (PCT/EP2020/084785)
[87] (WO2021/115978)
[30] GB (1918102.3) 2019-12-10

[21] **3,159,852**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/145 (2006.01) A61M 5/168 (2006.01) A61M 5/32 (2006.01) A61M 5/48 (2006.01) A61M 37/00 (2006.01)**
[25] EN
[54] **FLUID DELIVERY APPARATUS WITH MICRONEEDLES**
[54] **APPAREIL D'ADMINISTRATION DE FLUIDE DOTE DE MICROAIGUILLES**
[72] ROSS, RUSSELL FREDERICK, US
[71] SORRENTO THERAPEUTICS, INC., US
[85] 2022-05-27
[86] 2020-12-02 (PCT/US2020/062863)
[87] (WO2021/113343)
[30] US (62/942,971) 2019-12-03

[21] **3,159,853**
[13] A1
[51] **Int.Cl. A01N 35/10 (2006.01) A01N 25/22 (2006.01) A01N 43/40 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS AGRICOLES ET PROCEDES D'UTILISATION DE CES COMPOSITIONS**
[72] FERREIRA DA SILVA, EDUARDO CHAGAS, US
[71] VALENT U.S.A. LLC, US
[85] 2022-05-27
[86] 2020-12-16 (PCT/US2020/065185)
[87] (WO2021/126893)
[30] US (62/949,604) 2019-12-18

[21] **3,159,854**
[13] A1
[51] **Int.Cl. A24D 1/20 (2020.01) A24F 40/20 (2020.01)**
[25] EN
[54] **AN ARTICLE FOR USE IN A NON-COMBUSTIBLE AEROSOL PROVISION SYSTEM**
[54] **ARTICLE DESTINE A ETRE UTILISE DANS UN SYSTEME DE FOURNITURE D'AEROSOL NON COMBUSTIBLE**
[72] DIMMICK, BARRY, GB
[72] HOLFORD, STEVEN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/GB2020/053063)
[87] (WO2021/105721)
[30] GB (1917513.2) 2019-11-29

[21] **3,159,855**
[13] A1
[51] **Int.Cl. A01N 43/16 (2006.01)**
[25] EN
[54] **AGRICULTURAL COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS AGRICOLES ET LEURS PROCEDES D'UTILISATION**
[72] FERREIRA DA SILVA, EDUARDO CHAGAS, US
[72] PAWLAK, JOHN ANDREW, US
[71] VALENT U.S.A. LLC, US
[85] 2022-05-27
[86] 2020-12-16 (PCT/US2020/065186)
[87] (WO2021/126894)
[30] US (62/949,625) 2019-12-18

[21] **3,159,856**
[13] A1
[51] **Int.Cl. C12N 15/62 (2006.01) C07K 7/06 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **POLYPEPTIDE TAG AND APPLICATION THEREOF IN IN VITRO PROTEIN SYNTHESIS**
[54] **MARQUEUR POLYPEPTIDIQUE ET SON APPLICATION DANS LA SYNTHESE DE PROTEINES IN VITRO**
[72] GUO, MIN, CN
[72] YU, XUE, CN
[71] KANGMA-HEALTHCODE (SHANGHAI) BIOTECH CO., LTD, CN
[85] 2022-05-27
[86] 2020-11-27 (PCT/CN2020/132391)
[87] (WO2021/104482)
[30] CN (201911206616.3) 2019-11-30

[21] **3,159,857**
[13] A1
[51] **Int.Cl. A01N 43/16 (2006.01)**
[25] EN
[54] **AGRICULTURAL COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS AGRICOLES ET PROCEDES D'UTILISATION DE CELLES-CI**
[72] FERREIRA DA SILVA, EDUARDO CHAGAS, US
[72] PAWLAK, JOHN ANDREW, US
[71] VALENT U.S.A. LLC, US
[85] 2022-05-27
[86] 2020-12-16 (PCT/US2020/065188)
[87] (WO2021/126895)
[30] US (62/949,642) 2019-12-18

[21] **3,159,859**
[13] A1
[51] **Int.Cl. A24B 15/16 (2020.01) A24D 1/20 (2020.01) A24F 42/60 (2020.01) A24D 3/06 (2006.01)**
[25] EN
[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] ABI AOUN, WALID, GB
[72] LEAH, THOMAS, GB
[72] REES, KELLY, GB
[72] SOFFE, JOANNA, GB
[72] TODD, RICHARD, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/GB2020/053049)
[87] (WO2021/105711)
[30] GB (1917478.8) 2019-11-29

[21] **3,159,860**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01)**
[25] EN
[54] **USE OF BI853520 IN CANCER TREATMENT**
[54]
[72] WANG, ZAIQI, CN
[72] ZHANG, JIANGWEI, CN
[72] JIANG, JUN, CN
[72] ZHANG, BAOYUAN, CN
[71] INXMED (NANJING) CO., LTD., CN
[85] 2022-05-27
[86] 2020-11-27 (PCT/CN2020/132244)
[87] (WO2021/104454)
[30] CN (201911191139.8) 2019-11-28
[30] CN (202011287049.1) 2020-11-17

[21] **3,159,862**
[13] A1
[51] **Int.Cl. A24F 40/46 (2020.01) A24F 40/42 (2020.01)**
[25] EN
[54] **CONSUMABLE AND AEROSOL PROVISION SYSTEM WITH THERMAL FUSE**
[54] **CONSOMMABLE ET SYSTEME DE FOURNITURE D'AEROSOL AVEC FUSIBLE THERMIQUE**
[72] NELSON, DAVID ALAN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-17 (PCT/GB2020/052927)
[87] (WO2021/105650)
[30] GB (1917441.6) 2019-11-29

[21] **3,159,863**
[13] A1
[51] **Int.Cl. A61K 35/12 (2015.01)**
[25] EN
[54] **A T CELL-BASED IMMUNOTHERAPY FOR CENTRAL NERVOUS SYSTEM VIRAL INFECTIONS AND TUMORS**
[54] **IMMUNOTHERAPIE A BASE DE LYMPHOCYTES T POUR DES INFECTIONS VIRALES DU SYSTEME NERVEUX CENTRAL ET DES TUMEURS**
[72] IWASAKI, AKIKO, US
[71] YALE UNIVERSITY, US
[85] 2022-05-27
[86] 2020-12-04 (PCT/US2020/063211)
[87] (WO2021/113574)
[30] US (62/943,930) 2019-12-05

[21] **3,159,865**
[13] A1
[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/50 (2020.01)**
[25] EN
[54] **ELECTRONIC AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL ELECTRONIQUE**
[72] ABI AOUN, WALID, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083799)
[87] (WO2021/105477)
[30] GB (1917479.6) 2019-11-29

[21] **3,159,866**
[13] A1
[51] **Int.Cl. B22F 9/16 (2006.01) C22C 3/00 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARING ALUMINUM-CONTAINING ALLOY POWDER, USE THEREOF AND ALLOY STRIP**
[54] **PROCEDE DE PREPARATION DE POUDRE D'ALLIAGE CONTENANT DE L'ALUMINIUM, SON UTILISATION ET BANDE D'ALLIAGE**
[72] ZHAO, YUANYUN, CN
[72] LIU, LI, CN
[71] LIU, LI, CN
[85] 2022-05-27
[86] 2020-11-23 (PCT/CN2020/130956)
[87] (WO2021/104219)
[30] CN (201911188404.7) 2019-11-28
[30] CN (202011273043.9) 2020-11-13

[21] **3,159,867**
[13] A1
[51] **Int.Cl. G02F 1/13 (2006.01) B32B 17/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR UNIFORM TRANSMISSION IN LIQUID CRYSTAL PANELS**
[54] **SYSTEMES ET PROCEDES DE TRANSMISSION UNIFORME DANS DES PANNEAUX A CRISTAUX LIQUIDES**
[72] BELLO, OLADAPO OLALEKAN, US
[72] COUILLARD, JAMES GREGORY, US
[72] MCDONALD, MICHAEL AARON, US
[72] RICKERL, PAUL GEORGE, US
[71] CORNING INCORPORATED, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062148)
[87] (WO2021/108489)
[30] US (62/941,212) 2019-11-27

[21] **3,159,868**
[13] A1
[51] **Int.Cl. A24B 15/167 (2020.01)**
[25] EN
[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] ABI AOUN, WALID, GB
[72] LEAH, THOMAS, GB
[72] BAILEY, CHELSEA, GB
[72] THACKER, MOLLY, GB
[72] KABIRAT, JUNIOR, GB
[72] BENNING, JOCELYN, GB
[72] REES, KELLY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083777)
[87] (WO2021/105457)
[30] GB (1917477.0) 2019-11-29

[21] **3,159,870**
[13] A1
[51] **Int.Cl. A24B 3/14 (2006.01) A24B 15/167 (2020.01) A24C 5/01 (2020.01) A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24B 15/14 (2006.01) A24B 15/28 (2006.01) A24B 15/30 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING MATERIAL COMPRISING AN AMORPHOUS SOLID COMPRISING METHOL AND CALCIUM-CROSSLINKED ALGINATE**
[54] **MATERIAU GENERATEUR D'AEROSOL COMPRENANT UN SOLIDE AMORPHE COMPRENANT DU MENTHOL ET DE L'ALGINATE RETICULE PAR DU CALCIUM**
[72] LEAH, THOMAS, GB
[72] OAKLEY, BARNABY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083787)
[87] (WO2021/105465)
[30] GB (1917472.1) 2019-11-29

[21] **3,159,871**
[13] A1
[51] **Int.Cl. B08B 3/02 (2006.01) A61L 2/18 (2006.01) B08B 13/00 (2006.01) B65G 17/00 (2006.01)**
[25] EN
[54] **CLEANING ITEMS TO BE CLEANED, WHICH HAVE AT LEAST ONE CAVITY, IN A CONVEYOR WASHER**
[54] **NETTOYAGE D'ARTICLES A NETTOYER, QUI PRESENTENT AU MOINS UNE CAVITE, DANS UNE LAVEUSE A CONVOYEUR**
[72] ECKER, ENGELBERT, DE
[72] GAUS, BRUNO, DE
[72] HILS, WENDELIN, DE
[72] NAGER, THOMAS, DE
[72] SCHERER, MARC, DE
[72] SIMUNDIC, MARIJAN, DE
[71] MEIKO MASCHINENBAU GMBH & CO. KG, DE
[85] 2022-05-27
[86] 2020-12-04 (PCT/EP2020/084601)
[87] (WO2021/110897)
[30] DE (10 2019 219 094.4) 2019-12-06

[21] **3,159,872**
[13] A1
[51] **Int.Cl. A24B 15/167 (2020.01) A24C 5/01 (2020.01) A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24B 3/14 (2006.01) A24B 15/14 (2006.01) A24B 15/28 (2006.01)**
[25] EN
[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] LEAH, THOMAS, GB
[71] NICOVENTURES HOLDINGS LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083792)
[87] (WO2021/105470)
[30] GB (1917486.1) 2019-11-29

[21] **3,159,873**
[13] A1
[51] **Int.Cl. A24B 15/167 (2020.01) A24C 5/01 (2020.01) A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24B 15/28 (2006.01) A24B 15/30 (2006.01)**
[25] EN
[54] **AEROSOL-GENERATING MATERIAL COMPRISING AN AMORPHOUS SOLID WITH CARRAGEENAN**
[54] **MATERIAU GENERATEUR D'AEROSOL COMPRENANT UN SOLIDE AMORPHE AVEC DU CARRAGHENANE**
[72] BAILEY, CHELSEA, GB
[72] THACKER, MOLLY, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083748)
[87] (WO2021/105437)
[30] GB (1917470.5) 2019-11-29

[21] **3,159,874**
[13] A1
[51] **Int.Cl. B32B 17/10 (2006.01) G02F 1/13 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR UNIFORM TRANSMISSION IN LIQUID CRYSTAL PANELS**
[54] **SYSTEMES ET PROCEDES DE TRANSMISSION UNIFORME DANS DES PANNEAUX A CRISTAUX LIQUIDES**
[72] BELLO, OLADAPO OLALEKAN, US
[72] COUILLARD, JAMES GREGORY, US
[72] MCDONALD, MICHAEL AARON, US
[72] RICKERL, PAUL GEORGE, US
[71] CORNING INCORPORATED, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062128)
[87] (WO2021/108475)
[30] US (62/941,188) 2019-11-27

[21] **3,159,875**
[13] A1
[51] **Int.Cl. G02B 6/38 (2006.01) G02B 6/255 (2006.01) G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER SPLICE CLOSURE AND METHOD OF JOINING FIBER OPTIC CABLES**
[54] **FERMETURE D'EPISSURE DE FIBRE OPTIQUE ET PROCEDE DE JONCTION DE CABLES A FIBRE OPTIQUE**
[72] COUSINEAU, CHRISTIAN, CA
[72] POTVIN, LOUIS-PHILLIPPE, CA
[72] PARENT, MICHEL, CA
[71] BCE INC., CA
[85] 2022-05-27
[86] 2020-11-27 (PCT/CA2020/051631)
[87] (WO2021/102586)
[30] US (62/941,978) 2019-11-29

[21] **3,159,876**
[13] A1
[51] **Int.Cl. A61K 31/44 (2006.01) A61K 31/549 (2006.01) C07D 285/24 (2006.01)**
[25] EN
[54] **METHOD OF TREATMENT WITH KCNQ CHANNEL OPENERS**
[54] **PROCEDE DE TRAITEMENT AVEC DES ACTIVATEURS DE CANAUX KCNQ**
[72] MURROUGH, JAMES, US
[72] NESTLER, ERIC J., US
[72] HAN, MING HU, US
[71] ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI, US
[85] 2022-05-27
[86] 2020-12-07 (PCT/US2020/063556)
[87] (WO2021/113802)
[30] US (62/945,004) 2019-12-06
[30] US (62/987,781) 2020-03-10

[21] **3,159,877**
[13] A1
[51] **Int.Cl. A24B 3/14 (2006.01) A24B 15/167 (2020.01) A24C 5/01 (2020.01) A24D 1/20 (2020.01) A24F 40/20 (2020.01) A24B 15/14 (2006.01) A24B 15/18 (2006.01) A24B 15/30 (2006.01)**
[25] EN
[54] **CONSUMABLE COMPRISING TWO DIFFERENT AEROSOL-GENERATING MATERIALS FOR NON-COMBUSTIBLE AEROSOL PROVISION DEVICE**
[54] **CONSOMMABLE COMPRENANT DEUX MATERIAUX DIFFERENTS DE GENERATION D'AEROSOL POUR DISPOSITIF DE FOURNITURE D'AEROSOL NON COMBUSTIBLE**
[72] KARIBAT, JUNIOR, GB
[72] MOLONEY, PATRICK, GB
[72] CHAN, JUSTIN HAN YANG, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/EP2020/083764)
[87] (WO2021/105449)
[30] GB (1917468.9) 2019-11-29
[30] GB (2001312.4) 2020-01-30

[21] **3,159,878**
[13] A1
[51] **Int.Cl. E05B 47/00 (2006.01) H04W 52/02 (2009.01) H01Q 5/25 (2015.01) G06F 1/3234 (2019.01) G08C 19/00 (2006.01) H04B 7/00 (2006.01)**
[25] EN
[54] **ULTRA-WIDEBAND TECHNOLOGIES FOR SEAMLESS ACCESS CONTROL**
[54] **TECHNOLOGIES A BANDE ULTRALARGE POUR UNE COMMANDE D'ACCES SANS INTERRUPTION**
[72] KINCAID, RYAN C., US
[72] PROSTKO, ROBERT, US
[72] MARTENS, ROBERT, US
[72] HOPKINS, BENJAMIN J., US
[72] BATY, DAVID M., US
[72] VENKATESWARAN, SRIKANTH, US
[72] BAKER, CHRISTOPHER R., US
[71] SCHLAGE LOCK COMPANY LLC, US
[85] 2022-05-27
[86] 2020-11-27 (PCT/US2020/062479)
[87] (WO2021/108752)
[30] US (62/940,997) 2019-11-27

[21] **3,159,880**
[13] A1
[51] **Int.Cl. H04B 10/032 (2013.01)**
[25] FR
[54] **PASSIVE OPTICAL COMMUNICATION NETWORK AND AIRCRAFT CONTAINING SAID NETWORK**
[54] **RESEAU DE COMMUNICATION OPTIQUE PASSIF ET AERONEF COMPORTANT LEDIT RESEAU**
[72] TALL, DIARRA, FR
[72] REBIERE, YOANN, FR
[71] LATELEC, FR
[85] 2022-05-27
[86] 2020-12-03 (PCT/EP2020/084527)
[87] (WO2021/110867)
[30] FR (FR1913705) 2019-12-04

[21] **3,159,881**
[13] A1
[51] **Int.Cl. B32B 17/10 (2006.01) G02F 1/13 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR UNIFORM TRANSMISSION IN LIQUID CRYSTAL PANELS**
[54] **SYSTEMES ET PROCEDES DE TRANSMISSION UNIFORME DANS DES PANNEAUX A CRISTAUX LIQUIDES**
[72] BELLO, OLADAPO OLALEKAN, US
[72] COUILLARD, JAMES GREGORY, US
[72] MCDONALD, MICHAEL AARON, US
[72] RICKERL, PAUL GEORGE, US
[71] CORNING INCORPORATED, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062131)
[87] (WO2021/108476)
[30] US (62/941,196) 2019-11-27

[21] **3,159,883**
[13] A1
[51] **Int.Cl. G02F 1/1333 (2006.01) G02F 1/1339 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR UNIFORM TRANSMISSION IN LIQUID CRYSTAL PANELS**
[54] **SYSTEMES ET PROCEDES DE TRANSMISSION UNIFORME DANS DES PANNEAUX A CRISTAUX LIQUIDES**
[72] BELLO, OLADAPO OLALEKAN, US
[72] COUILLARD, JAMES GREGORY, US
[72] MCDONALD, MICHAEL AARON, US
[72] RICKERL, PAUL GEORGE, US
[71] CORNING INCORPORATED, US
[85] 2022-05-27
[86] 2020-11-25 (PCT/US2020/062145)
[87] (WO2021/108486)
[30] US (62/941,178) 2019-11-27

[21] **3,159,884**
[13] A1
[51] **Int.Cl. H04B 1/40 (2015.01) H02J 50/20 (2016.01)**
[25] EN
[54] **MICRO-ENERGY COLLECTION APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE COLLECTE DE MICROENERGIE**
[72] WU, WENJING, CN
[71] WU, WENJING, CN
[85] 2022-05-27
[86] 2019-12-05 (PCT/CN2019/123361)
[87] (WO2021/109081)

[21] **3,159,885**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G06K 9/62 (2022.01)**
[25] EN
[54] **IMAGE PROCESSING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE TRAITEMENT D'IMAGE**
[72] RYAN, SID, CA
[71] SITA INFORMATION NETWORKING COMPUTING UK LIMITED, GB
[85] 2022-05-27
[86] 2020-12-17 (PCT/GB2020/053264)
[87] (WO2021/123790)
[30] GB (1918893.7) 2019-12-19
[30] EP (20172992.8) 2020-05-05

[21] **3,159,886**
[13] A1
[51] **Int.Cl. B22F 9/24 (2006.01) B22F 1/05 (2022.01) B01D 9/02 (2006.01) B22F 9/04 (2006.01) C01G 3/00 (2006.01)**
[25] EN
[54] **PROCESSES FOR PRODUCING GRANULAR COPPER**
[54]
[72] BRINDLE, IAN DAVID, CA
[72] SHEEPWASH, MOLINA AUDREY LORRAINE, CA
[71] DESTINY COPPER INC., CA
[85] 2022-05-27
[86] 2022-05-02 (PCT/CA2022/050668)
[87] (3159886)
[30] US (63/202,486) 2021-06-14

[21] **3,159,887**
[13] A1
[51] **Int.Cl. B60P 3/00 (2006.01)**
[25] EN
[54] **IMPROVED ASSET DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'ACTIF AMELIORE**
[72] GIL, JULIO, NL
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2022-05-27
[86] 2020-10-27 (PCT/US2020/057481)
[87] (WO2021/137925)
[30] US (16/731,560) 2019-12-31

[21] **3,159,888**
[13] A1
[51] **Int.Cl. B60P 3/06 (2006.01)**
[25] EN
[54] **SUPPORT STRUCTURE FOR A TRAILER**
[54] **STRUCTURE DE SUPPORT POUR REMORQUE**
[72] BRADSHAW, STEPHEN, GB
[71] ATE HOLDINGS LTD, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/GB2020/053038)
[87] (WO2021/105701)
[30] GB (1917496.0) 2019-11-29
[30] GB (2002876.7) 2020-02-28

[21] **3,159,889**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/17 (2015.01) A61K 45/06 (2006.01) C07K 14/705 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR SPECIFICALLY BINDING TO CD 300C ANTIGEN OR RECEPTOR THEREOF**
[54] **RECEPTEUR ANTIGENIQUE CHIMERIQUE SE LIANT SPECIFIQUEMENT A L'ANTIGENE CD300C OU A SON RECEPTEUR**
[72] JEON, JAEWON, KR
[72] LEE, SUIN, KR
[72] KIM, HANEUL, KR
[71] CENTRICSBIO, INC., KR
[85] 2022-05-27
[86] 2020-11-30 (PCT/KR2020/017230)
[87] (WO2021/107726)
[30] KR (10-2019-0155027) 2019-11-28
[30] KR (10-2020-0162200) 2020-11-27

[21] **3,159,890**
[13] A1
[51] **Int.Cl. B60P 3/06 (2006.01)**
[25] EN
[54] **SECURING SYSTEM FOR A TRAILER**
[54] **SYSTEME DE FIXATION POUR UNE REMORQUE**
[72] BRADSHAW, STEPHEN, GB
[71] ATE HOLDINGS LTD, GB
[85] 2022-05-27
[86] 2020-11-27 (PCT/GB2020/053037)
[87] (WO2021/105700)
[30] GB (1917496.0) 2019-11-29

[21] **3,159,891**
[13] A1
[51] **Int.Cl. B62D 37/02 (2006.01)**
[25] EN
[54] **ACTIVE AERODYNAMIC VEHICLE SURFACE WITH FORCE SENSOR**
[54] **SURFACE DE VEHICULE AERODYNAMIQUE ACTIVE AVEC CAPTEUR DE FORCE**
[72] MITCHELL, JOHN ROBERT SCOTT, CA
[72] CARON, STEPHEN JAMES, CA
[71] MAGNA EXTERIORS INC., CA
[85] 2022-05-27
[86] 2020-12-11 (PCT/CA2020/051712)
[87] (WO2021/119805)
[30] US (62/950,547) 2019-12-19

[21] **3,159,892**
[13] A1
[51] **Int.Cl. G06K 19/07 (2006.01)**
[25] EN
[54] **DETUNING DETECTION AND COMPENSATION FOR INDUCTIVE COUPLING SYSTEMS**
[54] **DETECTION ET COMPENSATION DE DESACCORD POUR DES SYSTEMES A COUPLAGE INDUCTIF**
[72] PIRCH, HANS-JUERGEN, AT
[71] ASSA ABLOY AB, SE
[85] 2022-05-27
[86] 2020-11-25 (PCT/EP2020/083353)
[87] (WO2021/110508)
[30] US (16/704,252) 2019-12-05

[21] **3,159,893**
[13] A1
[51] **Int.Cl. G06K 17/00 (2006.01) G06Q 10/08 (2012.01) G06K 19/07 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MANAGING PRODUCT EXPIRATION**
[54] **PROCEDES ET SYSTEMES DE GESTION D'EXPIRATION DE PRODUIT**
[72] TIWARI, RAHUL, US
[72] ASSAF, FADI, US
[72] AOUN, MIRELLA, US
[72] RAHMEH, JIHAD, US
[72] HAMOUSH, CHRISTINA, US
[72] ABDUL-LATIF, RIMA, US
[71] WAVEMARK, INC., US
[85] 2022-05-27
[86] 2020-12-18 (PCT/US2020/065935)
[87] (WO2021/127389)
[30] US (62/951,758) 2019-12-20
[30] US (17/125,276) 2020-12-17

[21] **3,159,894**
[13] A1
[51] **Int.Cl. B01D 15/16 (2006.01) G01N 30/32 (2006.01) G01N 30/36 (2006.01)**
[25] EN
[54] **HIGH PERFORMANCE LIQUID CHROMATOGRAPHY QUANTIFICATION OF EXCIPIENTS**
[54] **QUANTIFICATION D'EXCIPIENTS PAR CHROMATOGRAPHIE LIQUIDE A HAUTE PERFORMANCE**
[72] LIU, JING, US
[72] BRICKMAN, ETHAN TYLER, US
[72] CODY, LUKE DAVID MUNIER, US
[71] SEAGEN INC., US
[85] 2022-05-27
[86] 2020-12-15 (PCT/US2020/065162)
[87] (WO2021/126882)
[30] US (62/948,357) 2019-12-16

[21] **3,159,895**
[13] A1
[51] **Int.Cl. G10K 11/178 (2006.01) G10L 19/012 (2013.01) G10L 19/025 (2013.01) G10L 19/03 (2013.01) G10L 19/26 (2013.01) A61F 11/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AMBIENT NOICE DETECTION, IDENTIFICATION AND MANAGEMENT**
[54] **SYSTEME ET PROCEDE DE DETECTION, D'IDENTIFICATION ET DE GESTION DE BRUIT AMBIANT**
[72] BIRMINGHAM, ELINA, CA
[72] ARZANPOUR, SIAMAK, CA
[72] BAHMEI, BEHNAZ, CA
[71] BIRMINGHAM, ELINA, CA
[71] ARZANPOUR, SIAMAK, CA
[71] BAHMEI, BEHNAZ, CA
[85] 2022-05-27
[86] 2020-12-14 (PCT/CA2020/051721)
[87] (WO2021/119806)
[30] US (62/950,108) 2019-12-19

[21] **3,159,896**
[13] A1
[51] **Int.Cl. A61N 5/10 (2006.01) G01N 23/00 (2006.01) G01N 23/225 (2018.01) G21K 5/04 (2006.01) H01J 37/244 (2006.01) H01J 37/30 (2006.01)**
[25] EN
[54] **ELECTRON BEAM RADIATION SYSTEM WITH ADVANCED APPLICATOR COUPLING SYSTEM HAVING INTEGRATED DISTANCE DETECTION AND TARGET ILLUMINATION**
[54] **SYSTEME DE RAYONNEMENT DE FAISCEAU D'ELECTRONS DOTE D'UN SYSTEME D'ACCOUPLEMENT D'APPLICATEUR AVANCE AVEC DETECTION DE DISTANCE ET ECLAIREMENT DE CIBLE INTEGRES**
[72] TURK, MICHAEL F., US
[72] PATANE, CHRISTOPHER J., US
[72] JOHNSON, RICHARD L., US
[71] INTRAOP MEDICAL CORPORATION, US
[85] 2022-05-27
[86] 2020-11-24 (PCT/US2020/061963)
[87] (WO2021/108375)
[30] US (62/941,327) 2019-11-27

[21] **3,159,899**
[13] A1
[51] **Int.Cl. C07D 417/12 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR MODULATING ACTIVITY OF FXR AND USES THEREOF**
[54] **COMPOSES POUR MODULER L'ACTIVITE DE FXR ET LEURS UTILISATIONS**
[72] YANG, BAILING, CN
[72] KRISTJAN, GUDMUNDSSON, CN
[72] DONG, LIUYU, CN
[72] CHEN, JAMES, CN
[71] GANNEX PHARMA CO., LTD., CN
[85] 2022-05-29
[86] 2020-10-12 (PCT/CN2020/120369)
[87] (WO2021/109712)
[30] CN (PCT/CN2019/122595) 2019-12-03

[21] **3,159,903**
[13] A1
[51] **Int.Cl. G06Q 50/30 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING ACTUAL POINT OF SALE VEHICLE SERVICE COST TRENDS**
[54] **SYSTEME ET PROCEDE POUR GENERER DES TENDANCES DE COUT DE SERVICE DE POINT DE VENTE REEL DE VEHICULE**
[72] NURSE, ROBERT DOUGLAS SMITHSON, CA
[71] NURSE'S EMISSION TESTING & REPAIR FACILITY INC., CA
[85] 2022-05-29
[86] 2019-12-06 (PCT/CA2019/051761)
[87] (WO2021/108886)

[21] **3,159,933**
[13] A1
[51] **Int.Cl. G21C 13/028 (2006.01)**
[25] EN
[54] **A CONTAINMENT SYSTEM**
[54] **SYSTEME DE CONFINEMENT**
[72] ELLINGHAM, PHILIP, GB
[71] ROLLS-ROYCE SMR LIMITED, GB
[85] 2022-05-30
[86] 2020-11-10 (PCT/EP2020/081602)
[87] (WO2021/110373)
[30] GB (1917905.0) 2019-12-06

[21] **3,159,944**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **THERAPEUTIC EDITING**
[54] **EDITION THERAPEUTIQUE**
[72] HUSS, DAVID, US
[72] MALI, PRASHANT, US
[72] LAKSHMANAN, ANUPAMA, US
[72] NYE, CHRISTOPHER, US
[72] SAVVA, YIANNIS, US
[72] STEIN, LIANA, US
[72] SULLIVAN, RICHARD, US
[72] PONCE, RAFAEL, US
[72] BYRNE, SUSAN, US
[71] SHAPE THERAPEUTICS INC., US
[85] 2022-05-30
[86] 2020-12-01 (PCT/US2020/062756)
[87] (WO2021/113270)
[30] US (62/942,693) 2019-12-02
[30] US (62/942,667) 2019-12-02
[30] US (62/942,683) 2019-12-02
[30] US (63/022,727) 2020-05-11
[30] US (63/030,165) 2020-05-26
[30] US (63/112,286) 2020-11-11

[21] **3,159,947**
[13] A1
[51] **Int.Cl. A61B 6/00 (2006.01) G06K 9/00 (2022.01)**
[25] EN
[54] **MEDICAL IMAGE SYNTHESIS FOR MOTION CORRECTION USING GENERATIVE ADVERSARIAL NETWORKS**
[54] **SYNTHESE D'IMAGE MEDICALE POUR CORRECTION DE MOUVEMENT AU MOYEN DE RESEAUX ANTAGONISTES GENERATIFS**
[72] CRABB, BRENDAN THOMAS, US
[72] NOO, FREDERIC NICOLAS FIRMIN, US
[72] FINE, GABRIEL CHAIM, US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2022-05-30
[86] 2020-12-01 (PCT/US2020/062699)
[87] (WO2021/113235)
[30] US (62/942,675) 2019-12-02
[30] US (63/085,491) 2020-09-30

[21] **3,159,949**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/16 (2020.01)**
[25] EN
[54] **AGENTS FOR ORAL COMPOSITION**
[54] **AGENTS POUR COMPOSITION ORALE**
[72] HUTCHENS, RONALD K., US
[72] GERARDI, ANTHONY RICHARD, GB
[72] HUNT, PHILIP RICHARD, GB
[72] KELLER, CHRISTOPHER, GB
[72] POOLE, THOMAS H., GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2022-05-30
[86] 2020-12-04 (PCT/IB2020/061546)
[87] (WO2021/116865)
[30] US (62/945,640) 2019-12-09

[21] **3,159,954**
[13] A1
[51] **Int.Cl. C09D 1/02 (2006.01)**
[25] EN
[54] **PROTECTIVE COATINGS FOR METALS**
[54] **REVETEMENTS PROTECTEURS POUR METAUX**
[72] MACKIEWICZ, AGNIESZKA, GB
[71] MCT HOLDINGS LTD., VG
[85] 2022-05-30
[86] 2020-12-04 (PCT/EP2020/084732)
[87] (WO2021/110964)
[30] GB (1917790.6) 2019-12-05

[21] **3,159,956**
[13] A1
[51] **Int.Cl. A01K 67/033 (2006.01)**
[25] EN
[54] **MITE COMPOSITION AND METHOD FOR REARING MITES**
[54] **COMPOSITION A BASE D'ACARIENS ET PROCEDE D'ELEVAGE D'ACARIENS**
[72] VANGANSBEKE, DOMINIEK, BE
[72] DUARTE, MARCUS VINICIUS ALFENAS, BE
[72] BENAVENTE MARTINEZ, ALFREDO, BE
[72] MERCKX, JONAS ANDREE JOZEF, BE
[72] GUILBAUD, MANON HELENE LIONELLA, BE
[72] OAKLEY, KEITH GEORGE, BE
[72] BOLCKMANS, KAREL JOZEF FLORENT BOLCKMANS, BE
[72] WACKERS, FELIX, BE
[71] BIOBEST GROUP N.V., BE
[85] 2022-05-30
[86] 2020-12-04 (PCT/EP2020/084674)
[87] (WO2021/110934)
[30] BE (BE2019/5864) 2019-12-04

[21] **3,159,959**
[13] A1
[51] **Int.Cl. C08G 63/16 (2006.01) C08G 63/08 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **BIODEGRADABLE POLYMER COMPRISING PH RESPONSIVE MOIETIES GRAFTED TO THE BACKBONE**
[54] **POLYMERE BIODEGRADABLE COMPRENANT DES MOITIES SENSIBLES AU PH GREFFEES SUR LE SQUELETTE**
[72] PRAPHULLA, PRAPHULLA, CA
[72] AGRAWAL, PRASHANT, CA
[72] CHEN, RICHARD, CA
[71] PLANTEE BIOPLASTICS INC., CA
[85] 2022-05-30
[86] 2020-12-09 (PCT/CA2020/051691)
[87] (WO2021/113966)
[30] US (62/946,011) 2019-12-10

[21] **3,159,963**
[13] A1
[51] **Int.Cl. A62B 9/02 (2006.01) A62B 7/02 (2006.01) A62B 7/14 (2006.01)**
[25] FR
[54] **REGULATOR ASSEMBLY FOR AN AIRCREW BREATHING MASK**
[54] **ENSEMBLE DE REGULATION POUR MASQUE RESPIRATOIRE D'UN MEMBRE D'EQUIPAGE D'AVION**
[72] JACOTEY, JEREMY, FR
[72] LAMOURETTE, DIDIER, FR
[72] MOREIRA, SERGE, FR
[71] SAFRAN AEROTECHNICS, FR
[85] 2022-05-30
[86] 2020-12-08 (PCT/FR2020/052343)
[87] (WO2021/116596)
[30] EP (19306605.7) 2019-12-09

[21] **3,159,964**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **NOVEL MOLECULES FOR THERAPY AND DIAGNOSIS**
[54] **NOUVELLES MOLECULES DE THERAPIE ET DE DIAGNOSTIC**
[72] TSIKA, ELPIDA, CH
[72] WARNER, JOHN, CH
[72] OLLIER, ROMAIN CHRISTIAN, CH
[72] STOHR, JAN PETER HENNING, CH
[72] KOSCO-VILBOIS, MARIE, CH
[71] AC IMMUNE SA, CH
[85] 2022-05-30
[86] 2020-12-04 (PCT/EP2020/084776)
[87] (WO2021/110995)
[30] EP (19213703.2) 2019-12-04
[30] EP (20202412.1) 2020-10-16

[21] **3,159,966**
[13] A1
[51] **Int.Cl. A63F 13/00 (2014.01)**
[25] EN
[54] **COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR SECONDARY GAME CREATION AND MANAGEMENT**
[54] **SYSTEMES ET PROCEDES MIS EN ?UVRE PAR ORDINATEUR POUR LA CREATION ET LA GESTION DE JEUX SECONDAIRES**
[72] DORRIS JR., JAMES F., US
[72] ROHMAN III, KENNETH W., US
[72] BELL, BRIAN FRANKLIN, US
[72] ANDERSON, PETER, US
[72] NESBITT, RONALD EDWARD, US
[72] CONNELLY, PETER A., US
[71] POARCH BAND OF CREEK INDIANS, DBA PCI GAMING AUTHORITY, US
[85] 2022-05-30
[86] 2020-12-09 (PCT/US2020/064116)
[87] (WO2021/119200)
[30] US (62/945,823) 2019-12-09

[21] **3,159,968**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS MODULATORS OF STIMULATOR OF INTERFERON GENES (STING)**
[54] **COMPOSES HETEROCYCLIQUES EN TANT QUE MODULATEURS DU STIMULATEUR DES GENES DE L'INTERFERON (STING)**
[72] ZAWADZKA, MAGDALENA IZABELA, PL
[72] STASI, LUIGI PIERO, IT
[72] ROGACKI, MACIEJ KRZYSZTOF, PL
[72] CWIERTNIA, GRZEGORZ WOJCIECH, PL
[72] DUDEK, LUKASZ PIOTR, PL
[72] GIBAS, AGNIESZKA JUSTYNA, PL
[72] RAJDA, ANNA, PL
[72] FABRITIUS, CHARLES-HENRY, PL
[72] RADZIMIERSKI, ADAM, PL
[72] MAHAJAN, TUSHAR RAVINDRA, PL
[72] LES, MARCIN WOJCIECH, PL
[72] ZUCHOWICZ, KAROL, PL
[72] WRONOWSKI, MAREK, PL
[72] SYNAK, DAVID JORG, PL
[72] TANGIRALA, SUNDARA RAGHURAM, PL
[71] RYVU THERAPEUTICS S.A., PL
[85] 2022-05-30
[86] 2020-12-11 (PCT/EP2020/085840)
[87] (WO2021/116451)
[30] EP (19460064.9) 2019-12-11

[21] **3,159,977**
[13] A1
[51] **Int.Cl. E21B 43/26 (2006.01) G05B 19/406 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FLUID END EARLY FAILURE PREDICTION**
[54] **SYSTEMES ET PROCEDES DE PREDICTION DE DEFAILLANCE PRECOCE D'EXTREMITE DE FLUIDE**
[72] ALBERT, ARDEN, US
[72] CHRISTINZIO, ALEXANDER, US
[71] U.S. WELL SERVICES, LLC, US
[85] 2022-05-30
[86] 2020-12-31 (PCT/US2020/067608)
[87] (WO2021/138524)
[30] US (62/955,978) 2019-12-31
[30] US (17/137,570) 2020-12-30

[21] **3,159,978**
[13] A1
[51] **Int.Cl. A61K 31/5377 (2006.01) A61K 31/497 (2006.01) A61K 31/573 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **THERAPY FOR THE TREATMENT OF CANCER**
[54] **THERAPIE POUR LE TRAITEMENT DU CANCER**
[72] BJORKLUND, CHAD, US
[72] CHIU, HSILING, US
[72] HAGNER, PATRICK, US
[72] KANG, JIAN, US
[72] THAKURTA, ANJAN, US
[71] CELGENE CORPORATION, US
[85] 2022-05-30
[86] 2020-12-01 (PCT/US2020/062658)
[87] (WO2021/113212)
[30] US (62/942,378) 2019-12-02

[21] **3,159,979**
[13] A1
[51] **Int.Cl. C07K 14/475 (2006.01) A61K 47/68 (2017.01)**
[25] EN
[54] **FUSION POLYPEPTIDE COMPRISING GDF15 AND POLYPEPTIDE REGION CAPABLE OF O-GLYCOSYLATION**
[54] **POLYPEPTIDE DE FUSION COMPRENANT LE GDF15 ET REGION POLYPEPTIDIQUE APTE A L'O-GLYCOSYLATION**
[72] KIM, YEONCHUL, KR
[72] SON, YOUNG DOK, KR
[72] NA, KYUBONG, KR
[72] HONG, JI HO, KR
[72] JUNG, SAEM, KR
[72] JIN, MYUNG WON, KR
[72] PARK, JI A, KR
[72] NOH, SOOMIN, KR
[72] PARK, HYUNTAEK, KR
[71] LG CHEM, LTD., KR
[85] 2022-05-30
[86] 2020-12-10 (PCT/KR2020/018053)
[87] (WO2021/118256)
[30] KR (10-2019-0165052) 2019-12-11

[21] **3,159,980**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **TARGETING MB2 OF THE MYC ONCOGENE AND ITS INTERACTION WITH TRRAP IN CANCER**
[54] **CIBLAGE DE MB2 DE L'ONCOGENE MYC ET SON INTERACTION AVEC TRRAP DANS LE CANCER**
[72] FERIS, EDMOND J., US
[72] COLE, MICHAEL D., US
[71] THE TRUSTEES OF DARTMOUTH COLLEGE, US
[85] 2022-05-30
[86] 2020-12-02 (PCT/US2020/062870)
[87] (WO2021/113347)
[30] US (62/942,734) 2019-12-02

[21] **3,160,028**
[13] A1
[51] **Int.Cl. A23C 20/00 (2006.01)**
[25] EN
[54] **LOW PROTEIN CHEESE HAVING IMPROVED STRETCH**
[54] **FROMAGE A FAIBLE TENEUR EN PROTEINES AYANT UNE EXTENSIBILITE AMELIOREE**
[72] ROA, BRANDON, US
[72] SPERANZA, ADRIANNE, US
[72] YURGEC, MATTHEW, US
[72] ZAMARIN, VANESSA, US
[71] CORN PRODUCTS DEVELOPMENT, INC., US
[85] 2022-05-30
[86] 2020-12-10 (PCT/US2020/064228)
[87] (WO2021/119264)
[30] US (62/948,025) 2019-12-13

[21] **3,160,578**
[13] A1
[51] **Int.Cl. A61K 9/10 (2006.01) A61K 9/12 (2006.01) A61K 31/335 (2006.01) A61K 31/56 (2006.01) A61K 31/573 (2006.01) A61K 31/58 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) A61K 47/26 (2006.01) A61K 47/32 (2006.01) A61P 11/02 (2006.01) A61P 37/08 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING STEROID COMPOUND AND OLOPATADINE**
[54] **COMPOSITION MEDICALE CONTENANT UN COMPOSE STEROIDIQUE ET DE L'OLOPATADINE**
[72] KAMISHITA, TAIZOU, JP
[72] MIYAZAKI, TAKASHI, JP
[72] TANAKA, CHIKARA, JP
[72] OHSAWA, FUKUICHI, JP
[71] TOKO YAKUHIN KOGYO CO., LTD., JP
[85] 2022-06-02
[86] 2020-12-04 (PCT/JP2020/045314)
[87] (WO2021/112242)
[30] JP (2019-221421) 2019-12-06

[21] **3,160,723**
[13] A1
[51] **Int.Cl. F16K 1/12 (2006.01) F16K 15/06 (2006.01) F16K 15/18 (2006.01) F16K 17/38 (2006.01) F16K 31/00 (2006.01) F16K 31/02 (2006.01) F16K 37/00 (2006.01)**
[25] EN
[54] **STOP VALVE FOR INSTALLATION IN A PIPELINE, IN PARTICULAR IN A PIPELINE OF A NUCLEAR FACILITY**
[54] **SOUPAPE D'ARRET DESTINEE A ETRE INSTALLEE DANS UNE CANALISATION, EN PARTICULIER DANS UNE CANALISATION D'UNE INSTALLATION NUCLEAIRE**
[72] ORNOT, LEO, CH
[71] KERNKRAFTWERK GOSGEN-DANIKEN AG, CH
[85] 2022-06-03
[86] 2020-12-08 (PCT/EP2020/084974)
[87] (WO2021/116053)
[30] EP (19214504.3) 2019-12-09

[21] **3,160,781**
[13] A1
[51] **Int.Cl. B60K 20/02 (2006.01) G05G 1/04 (2006.01) G05G 7/00 (2006.01)**
[25] EN
[54] **MECHANICAL RETURN-TO-PARK FEATURE FOR SHIFT-BY-WIRE TRANSMISSION**
[54] **CARACTERISTIQUE MECANIQUE DE RETOUR A LA POSITION DE STATIONNEMENT POUR UNE TRANSMISSION A CHANGEMENT DE VITESSE PAR CABLE**
[72] BAYS, JEFFREY LEE, US
[72] MERRILL II, PHILLIP TORREY, US
[71] GHSP, INC., US
[85] 2022-06-03
[86] 2020-12-03 (PCT/IB2020/061437)
[87] (WO2021/116845)
[30] US (62/945,414) 2019-12-09

[21] **3,161,506**
[13] A1
[51] **Int.Cl. G01N 1/20 (2006.01) G01N 1/10 (2006.01) G01N 1/40 (2006.01) G01N 33/18 (2006.01)**
[25] EN
[54] **PASSIVE SAMPLER DEPLOYMENT HOUSING**
[54] **BOITIER DE DEPLOIEMENT D'ECHANTILLONNEUR PASSIF**
[72] PITTOIS, DENIS, LU
[72] GALLE, TOM, LU
[71] LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY (LIST), LU
[85] 2022-06-10
[86] 2020-12-17 (PCT/EP2020/086649)
[87] (WO2021/130096)
[30] LU (LU101569) 2019-12-23

[21] **3,161,509**
[13] A1
[51] **Int.Cl. C07D 207/06 (2006.01) A61P 17/10 (2006.01)**
[25] EN
[54] **PREPARATION OF TRIFAROTENE AND INTERMEDIATES AND POLYMORPHS THEREOF**
[54] **PREPARATION DE TRIFAROTENE ET INTERMEDIAIRES ET POLYMORPHES DE CELUI-CI**
[72] OZER, ILANA, IL
[72] KAFTANOV, YULIA, IL
[72] SIMHON, ELLIOT, IL
[72] DUSHKIN, ANDREY, IL
[72] SHEFFER DEE-NOOR, SHANI, IL
[72] PIZEM, HILLEL, IL
[72] AVRAMOFF, AVI, IL
[71] TARO PHARMACEUTICAL INDUSTRIES LTD., IL
[85] 2022-06-10
[86] 2020-12-10 (PCT/US2020/064365)
[87] (WO2021/119351)
[30] US (62/946,943) 2019-12-11

[21] **3,161,944**
[13] A1
[51] **Int.Cl. H02G 1/00 (2006.01) H02G 3/00 (2006.01) H02G 3/02 (2006.01) H02H 3/16 (2006.01) H02H 3/28 (2006.01) H02H 3/32 (2006.01) H02H 3/34 (2006.01)**
[25] EN
[54] **CIRCUIT INTERRUPTING DEVICE FOR PROVIDING GROUND FAULT AND OPEN NEUTRAL PROTECTION IN TEMPORARY POWER APPLICATIONS**
[54] **DISPOSITIF DE COUPURE DE CIRCUIT POUR ASSURER UNE PROTECTION DE DEFAUT A LA TERRE ET DE NEUTRE OUVERT DANS DES APPLICATIONS D'ALIMENTATION TEMPORAIRE**
[72] ITZLER, ROY, US
[72] GAY, NICOLE, US
[71] HUBBELL INCORPORATED, US
[85] 2022-05-13
[86] 2020-11-13 (PCT/US2020/060468)
[87] (WO2021/097251)
[30] US (62/936,053) 2019-11-15

[21] **3,161,945**
[13] A1
[51] **Int.Cl. B01D 25/00 (2006.01) C02F 1/28 (2006.01) C02F 1/52 (2006.01)**
[25] EN
[54] **WATER FILTRATION SYSTEM**
[54] **SYSTEME DE FILTRATION D'EAU**
[72] SONI, PIUSH, GB
[71] IP 33 LTD, GB
[85] 2022-05-13
[86] 2020-11-16 (PCT/US2020/060798)
[87] (WO2021/097458)
[30] US (62/936,111) 2019-11-15
[30] US (62/948,784) 2019-12-16
[30] US (16/735,615) 2020-01-06

[21] **3,161,947**
[13] A1
[51] **Int.Cl. A61N 5/10 (2006.01) A61B 6/00 (2006.01) A61B 6/04 (2006.01) A61B 6/08 (2006.01) A61B 6/03 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING RADIATION PARAMETERS**
[54] **SYSTEME ET PROCEDE PERMETTANT DE DETERMINER DES PARAMETRES DE RAYONNEMENT**
[72] KIELY, JANID PATRICIA BLANCO, US
[71] DATA INTEGRITY ADVISORS, LLC, US
[85] 2022-05-17
[86] 2019-12-06 (PCT/US2019/064846)
[87] (WO2021/112867)
[30] US (62/943,668) 2019-12-04

[21] **3,161,948**
[13] A1
[51] **Int.Cl. F28D 21/00 (2006.01) A61F 7/00 (2006.01) F25D 21/04 (2006.01) F25D 31/00 (2006.01)**
[25] EN
[54] **OPTIMIZED WATER CHANNELS AND FLEXIBLE COOLERS FOR USE IN HEAT EXCHANGE MODULE(S), SYSTEMS, AND METHODS THEREOF**
[54] **CANAUX D'EAU OPTIMISES ET REFROIDISSEURS FLEXIBLES A UTILISER DANS UN OU PLUSIEURS MODULES D'ECHANGE DE CHALEUR, SYSTEMES, ET PROCEDES ASSOCIES**
[72] CUADRA, DANIEL, US
[72] COHN, RYAN, US
[72] PADULA, ANDREW, US
[72] VERGARA, JULIO L., US
[71] HYPOTHERMIA DEVICES, INC., US
[85] 2022-05-17
[86] 2020-12-09 (PCT/US2020/000047)
[87] (WO2021/118609)
[30] US (62/974,547) 2019-12-09

[21] **3,161,949**
[13] A1
[51] **Int.Cl. A61K 31/44 (2006.01) A61K 31/4468 (2006.01) A61K 31/454 (2006.01) A61K 31/4545 (2006.01) A61K 31/495 (2006.01) A61K 31/496 (2006.01) A61K 31/517 (2006.01) A61K 31/5377 (2006.01) A61K 31/55 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **AN ACTIVITY-GUIDED MAP OF ELECTROPHILE-CYSTEINE INTERACTIONS IN PRIMARY HUMAN IMMUNE CELLS**
[54] **CARTE DE GUIDE D'ACTIVITE D'INTERACTIONS ELECTROPHILE-CYSTEINE DANS DES CELLULES IMMUNITAIRES HUMAINES PRIMAIRES**
[72] CRAVATT, BENJAMIN, US
[72] VINOGRADOVA, EKATERINA, US
[72] CROWLEY, VINCENT, US
[72] ZHANG, XIAOYU, US
[72] SCHAFROTH, MICHAEL, ANDREAS, US
[72] YOKOYAMA, MINORU, US
[72] REMILLARD, DAVE, US
[72] MELILLO, BRUNO, US
[72] SCHREIBER, STUART, US
[71] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2022-05-17
[86] 2020-10-15 (PCT/US2020/055781)
[87] (WO2021/076755)
[30] US (62/916,170) 2019-10-16
[30] US (62/916,736) 2019-10-17
[30] US (63/039,387) 2020-06-15

[21] **3,161,952**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING DISORDERS AMELIORATED BY MUSCARINIC RECEPTOR ACTIVATION**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE TROUBLES ATTENUES PAR ACTIVATION DU RECEPTEUR MUSCARINIQUE**
[72] BRANNAN, STEPHEN, US
[72] MILLER, ANDREW, US
[71] KARUNA THERAPEUTICS, INC., US
[85] 2022-05-17
[86] 2020-11-17 (PCT/US2020/060859)
[87] (WO2021/101875)
[30] US (62/936,837) 2019-11-18
[30] US (63/030,780) 2020-05-27

[21] **3,161,953**
[13] A1
[51] **Int.Cl. A61K 31/133 (2006.01) A61K 31/27 (2006.01) A61K 31/445 (2006.01)**
[25] EN
[54] **DOSING REGIMENS FOR A PROTEIN KINASE C INHIBITOR**
[54] **SCHEMAS POSOLOGIQUES POUR UN INHIBITEUR DE PROTEINE KINASE C**
[72] HAMBLETON, JULIE, US
[72] WANG, JIANHONG, US
[71] IDEAYA BIOSCIENCES, INC., US
[85] 2022-05-17
[86] 2020-11-18 (PCT/US2020/061065)
[87] (WO2021/102004)
[30] US (62/936,993) 2019-11-18
[30] US (62/988,483) 2020-03-12

[21] **3,162,077**
[13] A1
[51] **Int.Cl. B67D 1/04 (2006.01) B67D 1/08 (2006.01)**
[25] EN
[54] **SEALING UNIT FOR A CONTAINER**
[54] **UNITE D'ETANCHEITE POUR RECIPIENT**
[72] GEBBINK, JEROEN GERRIT ANTON, NL
[72] KNUTSEN, RUNE KRISTIAN, NO
[72] MINAGAWA-WEBSTER, JOHN, US
[71] SMARTSEAL AB, NO
[85] 2022-06-15
[86] 2020-12-17 (PCT/EP2020/086874)
[87] (WO2021/123053)
[30] NL (2024486) 2019-12-17

[21] **3,162,354**
[13] A1
[51] **Int.Cl. A23L 11/30 (2016.01) C12P 19/04 (2006.01) C12P 19/12 (2006.01)**
[25] FR
[54] **FERMENTED PEA SOLUBLES**
[54] **SOLUBLES DE POIS FERMENTES**
[72] HUCHETTE-DEFRETIN, SOPHIE, FR
[72] MACQUART, GABRIEL, FR
[71] ROQUETTE FRERES, FR
[85] 2022-06-17
[86] 2020-12-18 (PCT/FR2020/052547)
[87] (WO2021/123675)
[30] FR (FR1914964) 2019-12-19
[30] FR (FR2008525) 2020-08-17

[21] **3,162,849**
[13] A1
[51] **Int.Cl. H01F 13/00 (2006.01) H02K 1/27 (2022.01) H02K 15/00 (2006.01) H02K 15/03 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MAGNETIZING PERMANENT MAGNET ROTORS**
[54] **SYSTEMES ET PROCEDES D'AIMANTATION DE ROTORS A AIMANTS PERMANENTS**
[72] LI, YONG, US
[72] THOMPSON, HOWARD G., US
[72] AMJAD, ARSLAN, US
[72] CLINGMAN, JAMES C., US
[72] PERISHO, RANDAL, US
[71] BAKER HUGHES OILFIELD OPERATIONS, LLC, US
[85] 2022-06-22
[86] 2020-12-30 (PCT/US2020/067538)
[87] (WO2021/138471)
[30] US (62/955,509) 2019-12-31

[21] **3,163,076**
[13] A1
[51] **Int.Cl. A23K 10/30 (2016.01) A23K 10/16 (2016.01) A23K 10/37 (2016.01) A23K 20/10 (2016.01) A23K 20/28 (2016.01) A23K 50/10 (2016.01)**
[25] EN
[54] **METHODS OF INCORPORATING SUSTAINABLE CARBON SUPPLEMENTS INTO ANIMAL FEED**
[54] **PROCEDES D'INCORPORATION DE SUPPLEMENTS DE CARBONE DURABLES DANS L'ALIMENTATION ANIMALE**
[72] MINNEMA, JOHN MURRAY, US
[71] MINNEMA, JOHN MURRAY, US
[85] 2022-06-24
[86] 2021-01-19 (PCT/US2021/014000)
[87] (WO2021/150521)
[30] US (62/963,869) 2020-01-21
[30] US (62/968,590) 2020-01-31

[21] **3,165,417**
[13] A1
[51] **Int.Cl. G06T 7/73 (2017.01) A63F 13/213 (2014.01) A63F 13/216 (2014.01) A63F 13/5378 (2014.01) A63F 13/655 (2014.01)**
[25] EN
[54] **LOCATION DETERMINATION AND MAPPING WITH 3D LINE JUNCTIONS**
[54] **DETERMINATION ET CARTOGRAPHIE DE POSITION A L'AIDE D'INTERSECTIONS DE LIGNES 3D**
[72] EKKATI, ANVITH, US
[72] YUAN, RONG, US
[72] JAIN, SIDDHANT, US
[72] HU, SI YING DIANA, US
[71] NIANTIC, INC., US
[85] 2022-06-20
[86] 2020-12-18 (PCT/IB2020/062238)
[87] (WO2021/124286)
[30] US (62/952,016) 2019-12-20

[21] **3,165,438**
[13] A1
[51] **Int.Cl. G06F 16/29 (2019.01) A63F 13/65 (2014.01) G06F 16/24 (2019.01)**
[25] EN
[54] **SHARDED STORAGE OF GEOLOCATED DATA WITH PREDICTABLE QUERY RESPONSE TIMES**
[54] **STOCKAGE FRAGMENTE DE DONNEES GEOLOCALISEES AVEC DES TEMPS DE REPONSE DES REQUETES PREVISIBLES**
[72] KRISHNA, DHARINI, US
[72] TURNER, PETER JAMES, US
[72] RAGHURAMAN, GANDEEVAN, US
[72] PEAKE, BENJAMIN, US
[71] NIANTIC, INC., US
[85] 2022-06-20
[86] 2020-12-18 (PCT/IB2020/062239)
[87] (WO2021/124287)
[30] US (62/952,140) 2019-12-20

[21] **3,165,522**
[13] A1
[51] **Int.Cl. E04D 1/34 (2006.01)**
[25] EN
[54] **STEEP SLOPE ROOFING PANEL SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE PANNEAU DE TOITURE A PENTE RAIDE**
[72] ANDERSON, ERIC R., US
[72] ZARATE, WALTER R., US
[71] BMIC LLC, US
[85] 2022-06-20
[86] 2021-01-15 (PCT/US2021/013648)
[87] (WO2021/146564)
[30] US (62/962,634) 2020-01-17

[21] **3,165,523**
[13] A1
[51] **Int.Cl. E04C 2/20 (2006.01)**
[25] EN
[54] **ROOFING PANELS WITH INTEGRATED WATERSHEDDING**
[54] **PANNEAUX DE TOITURE A DEVERSEMENT D'EAU INTEGREE**
[72] BOSS, DANIEL E., US
[72] NGUYEN, TRIEU, US
[72] POLLACK, KEVIN A., US
[72] GENNRICH, DAVID, US
[72] ANDERSON, ERIC R., US
[72] POSTER, MATTHEW J., US
[71] BMIC LLC, US
[85] 2022-06-20
[86] 2021-01-15 (PCT/US2021/013652)
[87] (WO2021/146567)
[30] US (62/962,298) 2020-01-17
[30] US (17/103,998) 2020-11-25

[21] **3,165,578**
[13] A1
[51] **Int.Cl. G06F 3/048 (2013.01)**
[25] EN
[54] **GRAPHICAL USER INTERFACE SYSTEM**
[54] **SYSTEME D'INTERFACE UTILISATEUR GRAPHIQUE**
[72] WOHLSTADTER, JACOB, US
[72] VOCK, MICHAEL, US
[72] PRABHU, ARVIND, US
[72] CHRISTIANSEN, BRADLEY, US
[72] CONG, XINRI, US
[71] METHODICAL MIND, LLC., US
[85] 2022-06-21
[86] 2020-12-23 (PCT/US2020/066794)
[87] (WO2021/133883)
[30] US (62/954,052) 2019-12-27

[21] **3,165,579**
[13] A1
[51] **Int.Cl. A61K 47/34 (2017.01) A61K 47/30 (2006.01)**
[25] EN
[54] **BIOACTIVE PLASTICS WITH PROGRAMMABLE DEGRADATION AND MICROPLASTIC ELIMINATION**
[54] **PLASTIQUES BIOACTIFS A DEGRADATION PROGRAMMABLE ET ELIMINATION DE MICROPLASTIQUES**
[72] XU, TING, US
[72] DEL RE, CHRISTOPHER, US
[72] KWON, JUNPYO, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-06-21
[86] 2021-01-04 (PCT/US2021/012108)
[87] (WO2021/138681)
[30] US (62/957,307) 2020-01-05

[21] **3,165,580**
[13] A1
[51] **Int.Cl. A61B 18/26 (2006.01) A61B 18/24 (2006.01)**
[25] EN
[54] **LITHOPLASTY DEVICE WITH ADVANCING ENERGY WAVEFRONT**
[54] **DISPOSITIF DE LITHOPLASTIE AVEC FRONT D'ONDE D'ENERGIE AVANCANT**
[72] COOK, CHRISTOPHER A., US
[71] BOLT MEDICAL, INC., US
[85] 2022-06-21
[86] 2021-01-19 (PCT/US2021/013944)
[87] (WO2021/150502)
[30] US (62/964,529) 2020-01-22
[30] US (17/146,867) 2021-01-12
[30] US (17/149,160) 2021-01-14

[21] **3,165,586**
[13] A1
[51] **Int.Cl. A61K 39/215 (2006.01) A61P 31/12 (2006.01) C07K 14/18 (2006.01) C12N 15/79 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR TREATING AND PREVENTING VIRAL INFECTION**
[54] **METHODES ET COMPOSITIONS DE TRAITEMENT ET DE PREVENTION D'INFECTIONS VIRALES**
[72] HAN, JANG HYUN, US
[72] RUTTER, BILL, US
[72] SEO, MI-YOUNG, KR
[71] AVIRUS, INC., US
[85] 2022-06-21
[86] 2021-01-23 (PCT/US2021/014818)
[87] (WO2021/151043)
[30] US (62/965,033) 2020-01-23
[30] US (63/050,473) 2020-07-10

[21] **3,165,588**
[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01) G16H 30/40 (2018.01) A61B 1/00 (2006.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **ARTIFICIAL INTELLIGENCE DETECTION SYSTEM FOR MECHANICALLY-ENHANCED TOPOGRAPHY**
[54] **SYSTEME DE DETECTION D'INTELLIGENCE ARTIFICIELLE POUR TOPOGRAPHIE AMELIOREE MECANIQUEMENT**
[72] TERLIUC, GAD, IL
[71] SMART MEDICAL SYSTEMS LTD., IL
[85] 2022-06-21
[86] 2021-03-19 (PCT/US2021/023139)
[87] (WO2021/194872)
[30] US (62/992,955) 2020-03-21

[21] **3,165,589**
[13] A1
[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01)**
[25] EN
[54] **CARD READER BASED PAYMENT TRANSACTIONS FROM A WEB BROWSER**
[54] **TRANSACTIONS DE PAIEMENT BASEES SUR UN LECTEUR DE CARTE A PARTIR D'UN NAVIGATEUR WEB**
[72] VENU, ARAVINTH, US
[72] GODAKANDA, PILANA GODAKANDAGE HASHAN DINUSHKA, US
[71] INTUIT INC., US
[85] 2022-06-21
[86] 2021-06-23 (PCT/US2021/038719)
[87] (WO2022/046265)
[30] US (17/003,435) 2020-08-26

[21] **3,165,601**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) B60L 53/66 (2019.01) B60L 55/00 (2019.01) H02J 7/00 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **DELIVERY OF STORED ELECTRICAL ENERGY FROM GENERATION SOURCES TO NANO-GRID SYSTEMS**
[54] **DISTRIBUTION D'ENERGIE ELECTRIQUE STOCKEE PROVENANT DE SOURCES DE PRODUCTION VERS DES SYSTEMES DE NANO-RESEAU**
[72] SHAHRIAR, HASSAN, CA
[72] EL-DEIB, AMGAD, CA
[71] ADAPTR, INC., CA
[85] 2022-06-22
[86] 2021-01-21 (PCT/CA2021/050061)
[87] (WO2021/146806)
[30] US (62/963,841) 2020-01-21

[21] **3,165,648**
[13] A1
[51] **Int.Cl. A61B 8/00 (2006.01) A61B 8/13 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PHOTOACOUSTIC IMAGING OF TISSUE AND ORGAN FIBROSIS**
[54] **PROCEDE ET SYSTEME D'IMAGERIE PHOTOACOUSTIQUE DE TISSU ET DE FIBROSE D'ORGANE**
[72] HYSI, ENO, CA
[72] KOLIOS, MICHAEL C., CA
[72] YUEN, DARREN A., CA
[71] UNITY HEALTH TORONTO, CA
[71] HYSI, ENO, CA
[71] KOLIOS, MICHAEL C., CA
[85] 2022-06-21
[86] 2020-12-23 (PCT/CA2020/051791)
[87] (WO2021/127784)
[30] US (62/953,235) 2019-12-24

[21] **3,165,649**
[13] A1
[51] **Int.Cl. B01D 35/157 (2006.01) B01D 29/66 (2006.01) B01D 35/30 (2006.01) B01D 36/02 (2006.01) C02F 1/00 (2006.01) C02F 1/44 (2006.01) F16K 7/04 (2006.01)**
[25] EN
[54] **WATER FILTRATION DEVICE WITH SEQUENTIAL BACKWASH AND METHOD OF ITS OPERATION**
[54] **DISPOSITIF DE FILTRATION D'EAU A LAVAGE A CONTRE-COURANT SEQUENTIEL ET SON PROCEDE DE FONCTIONNEMENT**
[72] VESTERGAARD-FRANDSEN, MIKKEL, US
[72] HILL, ALISON, US
[72] CAO, LE THU, VN
[72] PASCAL, JEAN-MARC, FR
[72] MADIER, JEAN-LUC, FR
[72] NGUYEN, CHUNG QUANG, VN
[72] VU, TOAN HUU, VN
[72] CORBINEAU, MATHIEU, CH
[71] LIFESTRAW SARL, CH
[85] 2022-06-21
[86] 2020-12-22 (PCT/EP2020/087712)
[87] (WO2021/130278)
[30] US (62/952,997) 2019-12-23

[21] **3,165,652**
[13] A1
[51] **Int.Cl. A23K 50/80 (2016.01) A23K 20/158 (2016.01) A23K 40/25 (2016.01) A23K 40/30 (2016.01)**
[25] EN
[54] **FISH FEED PELLETS LOADED WITH A MICROBIAL OIL**
[54] **PASTILLES D'ALIMENTS POUR POISSONS CHARGEES D'UNE HUILE MICROBIENNE**
[72] CLASADONTE, LAURE, CH
[72] HAGEMANN, NICHOLAS, CH
[72] PALAZOGLU KURK, PELIN, CH
[71] DSM IP ASSETS B.V., NL
[71] EVONIK OPERATIONS GMBH, DE
[85] 2022-06-21
[86] 2020-12-15 (PCT/EP2020/086142)
[87] (WO2021/130055)
[30] EP (19219194.8) 2019-12-23

[21] **3,165,653**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **NEW PROTEIN MARKERS OF RENAL DAMAGE**
[54] **NOUVEAUX MARQUEURS PROTEIQUES DE LESION RENALE**
[72] BORRAS SERRES, FRANCISCO E., ES
[72] LAUZURICA VALDEMOROS, L. RICARDO, ES
[72] CARRERAS PLANELLA, LAURA, ES
[71] FUNDACIO INSTITUT D'INVESTIGACIO EN CIENCIES DE LA SALUT GERMANS TRIAS I PUJOL (IGTP), ES
[85] 2022-06-22
[86] 2020-12-18 (PCT/EP2020/087290)
[87] (WO2021/130138)
[30] EP (19383190.6) 2019-12-23

[21] **3,165,654**
[13] A1
[51] **Int.Cl. G01F 1/00 (2022.01) G01N 27/02 (2006.01) G01N 27/22 (2006.01) G01N 27/74 (2006.01) G01V 3/00 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC SENSOR FOR MEASURING ELECTROMAGNETIC PROPERTIES OF A FLUID AND/OR A SOLID COMPRISING A FLEXIBLE SUBSTRATE**
[54] **CAPTEUR ELECTROMAGNETIQUE POUR LA MESURE DE PROPRIETES ELECTROMAGNETIQUES D'UN FLUIDE ET/OU D'UN SOLIDE COMPRENANT UN SUBSTRAT SOUPLE**
[72] MA, LU, GB
[72] HUNT, ANDREW, GB
[71] FLODATIX LIMITED, GB
[85] 2022-06-22
[86] 2020-12-21 (PCT/EP2020/087422)
[87] (WO2021/130160)
[30] GB (1919156.8) 2019-12-23

[21] **3,165,656**
[13] A1
[51] **Int.Cl. C08B 16/00 (2006.01) C08J 3/14 (2006.01)**
[25] EN
[54] **PREPARATION OF REGENERATED POLYSACCHARIDES**
[54] **PREPARATION DE POLYSACCHARIDES REGENERES**
[72] HOLLMANN, DIRK, DE
[72] NGUYEN, MAI NGOC, DE
[72] KRAGL, UDO, DE
[71] UNIVERSITAET ROSTOCK, DE
[85] 2022-06-22
[86] 2020-12-23 (PCT/EP2020/087783)
[87] (WO2021/130323)
[30] DE (10 2019 135 776.4) 2019-12-23
[30] DE (10 2020 103 195.5) 2020-02-07

[21] **3,165,658**
[13] A1
[51] **Int.Cl. A23K 10/30 (2016.01) A23K 20/147 (2016.01) A23L 33/185 (2016.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**
[25] EN
[54] **METHOD FOR OBTAINING ONE OR MORE PROTEIN PREPARATIONS AND OIL FRACTIONS FROM SUNFLOWER SEEDS OR RAPE SEEDS**
[54] **PROCEDE D'OBTENTION D'UNE OU DE PLUSIEURS PREPARATIONS DE PROTEINES ET DE FRACTIONS D'HUILE A PARTIR DE GRAINES DE TOURNESOL OU DE GRAINES DE COLZA**
[72] EISNER, PETER, DE
[72] MITTERMAIER, STEPHANIE, DE
[71] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2022-06-22
[86] 2021-01-15 (PCT/EP2021/050805)
[87] (WO2021/148321)
[30] DE (10 2020 200 863.9) 2020-01-24
[30] DE (10 2020 201 598.8) 2020-02-10

[21] **3,165,660**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 47/22 (2006.01) A61K 47/26 (2006.01) A61P 19/02 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01) C07K 16/40 (2006.01)**
[25] EN
[54] **FORMULATIONS OF CD38 ANTIBODIES AND USES THEREOF**
[54] **FORMULATIONS D'ANTICORPS ANTI-CD38 ET LEURS UTILISATIONS**
[72] CLAUSEN, JACOB D., DK
[72] HIBBERT, RICHARD, NL
[72] DALGAARD, MICHAEL B., DK
[71] GENMAB A/S, DK
[85] 2022-06-22
[86] 2021-01-15 (PCT/EP2021/050867)
[87] (WO2021/144457)
[30] US (62/962,028) 2020-01-16

[21] **3,165,666**
[13] A1
[51] **Int.Cl. C08G 18/10 (2006.01) C08G 18/28 (2006.01) C08G 18/76 (2006.01) C09D 175/08 (2006.01) C09J 175/08 (2006.01)**
[25] EN
[54] **SILYL TERMINATED POLYURETHANES AND INTERMEDIATES FOR THE PREPARATION THEREOF**
[54] **POLYURETHANES A TERMINAISON SILYLE ET INTERMEDIAIRES POUR LEUR PREPARATION**
[72] CHUANG, YA-MI, BE
[72] MARTINI, GIULIO, BE
[72] PHANOPOULOS, CHRISTOPHER, BE
[71] HUNTSMAN INTERNATIONAL LLC, US
[85] 2022-06-21
[86] 2020-12-17 (PCT/EP2020/086621)
[87] (WO2021/130094)
[30] EP (19219392.8) 2019-12-23

[21] **3,165,668**
[13] A1
[51] **Int.Cl. A23L 23/10 (2016.01) A23P 10/20 (2016.01) A23P 10/28 (2016.01)**
[25] EN
[54] **A PROCESS FOR PRODUCING OF A BOUILLON TABLET**
[54] **PROCEDE DE PRODUCTION D'UN CUBE DE BOUILLON**
[72] BETZ, REINHOLD WILLY, DE
[72] PERDANA, JIMMY, DE
[72] KURZ, KEVIN, DE
[72] TRAPPO, GREGORY, DE
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-06-22
[86] 2021-01-26 (PCT/EP2021/051726)
[87] (WO2021/160421)
[30] EP (20156510.8) 2020-02-11

[21] **3,165,669**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/473 (2006.01) A61K 31/4738 (2006.01) A61K 31/4985 (2006.01) A61K 31/501 (2006.01) A61K 31/502 (2006.01) A61K 31/506 (2006.01) A61P 37/08 (2006.01) C07D 221/06 (2006.01) C07D 221/18 (2006.01) C07D 237/26 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 405/14 (2006.01) C07D 413/04 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 417/04 (2006.01) C07D 417/12 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/048 (2006.01) C07D 498/10 (2006.01)**
[25] EN
[54] **DIHYDROCYCLOPENTA-ISOQUINOLINE-SULFONAMIDE DERIVATIVES COMPOUNDS**
[54] **COMPOSES DERIVES DE DIHYDROCYCLOPENTA-ISOQUINOLINE-SULFONAMIDE**
[72] NORMAN, TIMOTHY JOHN, GB
[72] BYRNE, DOUGLAS, GB
[72] ROWLEY, JULIAN HUGH, GB
[72] TRANI, GIANCARLO, GB
[72] RAMPALAKOS, KONSTANTINOS, GB
[72] MONCK, NATHANIEL JULIUS THOMAS, GB
[72] LALLEMAND, BENEDICTE, GB
[72] HASLETT, GREGORY WILLIAM, GB
[72] CONNELLY, RICKKI LEE, GB
[72] HEER, JAG PAUL, GB
[72] MADDEN, JAMES, GB
[72] PHILPS, OLIVER, GB
[72] SUGANTHAN, SELVARATNAM, GB
[72] YOUSUF, ZESHAN, GB
[72] MEARS, RICHARD JOHN, GB
[71] UCB BIOPHARMA SRL, BE
[85] 2022-06-21
[86] 2020-12-22 (PCT/EP2020/087686)
[87] (WO2021/130259)
[30] GB (1919213.7) 2019-12-23

[21] **3,165,673**
[13] A1
[51] **Int.Cl. B02C 17/18 (2006.01)**
[25] EN
[54] **GRATE SUPPORT ELEMENT, GRATE SUPPORT STRUCTURE AND OPEN-ENDED GRINDING MILL**
[54] **ELEMENT DE SUPPORT DE GRILLE, STRUCTURE DE SUPPORT DE GRILLE ET BROYEUR A EXTREMITE OUVERTE**
[72] GREEN, NICHOLAS JOHN, NO
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2022-06-22
[86] 2019-12-30 (PCT/FI2019/050929)
[87] (WO2021/136865)

[21] **3,165,675**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/473 (2006.01) A61P 37/08 (2006.01) C07D 221/06 (2006.01) C07D 401/04 (2006.01) C07D 401/12 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **TETRAHYDROBENZO-QUINOLINE SULFONAMIDE DERIVATIVES USEFUL AS IGE MODULATORS**
[54] **DERIVES DE TETRAHYDROBENZO-QUINOLEINE SULFONAMIDE UTILES EN TANT QUE MODULATEURS D'IGE**
[72] NORMAN, TIMOTHY JOHN, GB
[72] SUGANTHAN, SELVARATNAM, GB
[72] HEER, JAG PAUL, GB
[72] YOUSUF, ZESHAN, GB
[71] UCB BIOPHARMA SRL, BE
[85] 2022-06-21
[86] 2020-12-22 (PCT/EP2020/087688)
[87] (WO2021/130260)
[30] GB (1919214.5) 2019-12-23

[21] **3,165,678**
[13] A1
[51] **Int.Cl. B02C 17/18 (2006.01) B02C 17/22 (2006.01) B02C 23/16 (2006.01) B07B 1/06 (2006.01) B07B 1/46 (2006.01)**
[25] EN
[54] **A METHOD OF MAINTAINING GRATE OF GRINDING MILL AND MAINTENANCE ARRANGEMENT**
[54] **PROCEDE D'ENTRETIEN DE GRILLE DE BROYEUR ET AGENCEMENT D'ENTRETIEN**
[72] GREEN, NICHOLAS JOHN, NO
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2022-06-22
[86] 2019-12-30 (PCT/FI2019/050930)
[87] (WO2021/136866)

[21] **3,165,680**
[13] A1
[51] **Int.Cl. A23K 20/00 (2016.01) A23K 20/105 (2016.01) A23K 50/30 (2016.01)**
[25] EN
[54] **METHOD FOR REDUCTION OF BEHAVIORAL DISORDERS IN PIGS**
[54] **PROCEDE DE REDUCTION DE TROUBLES DU COMPORTEMENT CHEZ LES PORCS**
[72] SANS, JURGEN, DE
[71] ALZCHEM TROSTBERG GMBH, DE
[85] 2022-06-21
[86] 2021-02-24 (PCT/EP2021/054580)
[87] (WO2021/175677)
[30] DE (10 2020 105 769.5) 2020-03-04

[21] **3,165,683**
[13] A1
[51] **Int.Cl. E05B 65/48 (2006.01) H02B 1/38 (2006.01) H02B 1/40 (2006.01) H05K 5/02 (2006.01)**
[25] EN
[54] **ENCLOSURE FOR ELECTRICAL INSTALLATIONS**
[54] **ENVELOPPE POUR INSTALLATIONS ELECTRIQUES**
[72] WEBER, KENNETH, FI
[71] FIBOX OY AB, FI
[85] 2022-06-22
[86] 2020-12-22 (PCT/FI2020/050864)
[87] (WO2021/130414)
[30] FI (20196129) 2019-12-23

[21] **3,165,684**
[13] A1
[51] **Int.Cl. G01N 15/02 (2006.01) D21G 9/00 (2006.01) G01N 15/06 (2006.01) G01N 21/85 (2006.01)**
[25] EN
[54] **APPARATUS FOR AND METHOD OF MEASURING SUSPENSION FLOWING IN TUBE FRACTIONATOR**
[54] **APPAREIL ET PROCEDE DE MESURE DE SUSPENSION S'ECOULANT DANS UN TUBE DE FRACTIONNEMENT**
[72] TORMANEN, MATTI, FI
[71] VALMET AUTOMATION OY, FI
[85] 2022-06-22
[86] 2021-01-13 (PCT/FI2021/050017)
[87] (WO2021/144502)
[30] US (62/960,857) 2020-01-14

[21] **3,165,721**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01)**
[25] EN
[54] **ESOPHAGEAL PROTECTION PATHWAYS**
[54] **VOIES DE PROTECTION OESOPHAGIENNE**
[72] COHN, WILLIAM, US
[72] GARBIN, NICOLO, US
[72] KUHN, MATTHEW, US
[72] TUSHAR, SHARMA, US
[71] ETHICON, INC., US
[85] 2022-06-21
[86] 2020-10-07 (PCT/IB2020/059428)
[87] (WO2021/130561)
[30] US (16/724,427) 2019-12-23

[21] **3,165,722**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61B 18/00 (2006.01)**
[25] EN
[54] **TRANSESOPHAGEAL CATHETER FOR THERMAL PROTECTION OF THE ESOPHAGUS**
[54] **CATHETER TRANS□SOPHAGIEN POUR LA PROTECTION THERMIQUE DE L'□SOPHAGE**
[72] COHN, WILLIAM, US
[72] GARBIN, NICOLO, US
[72] KUHN, MATTHEW, US
[72] TUSHAR, SHARMA, US
[71] ETHICON, INC., US
[85] 2022-06-21
[86] 2020-10-07 (PCT/IB2020/059432)
[87] (WO2021/130562)
[30] US (16/724,435) 2019-12-23

[21] **3,165,723**
[13] A1
[51] **Int.Cl. A61B 90/00 (2016.01) A61B 18/00 (2006.01)**
[25] EN
[54] **FLUID DELIVERY SYSTEM FOR CREATING SEPARATION BETWEEN BIOLOGICAL SURFACES**
[54] **SYSTEME DE DISTRIBUTION DE FLUIDE POUR CREER UNE SEPARATION ENTRE DES SURFACES BIOLOGIQUES**
[72] COHN, WILLIAM, US
[72] GARBIN, NICOLO, US
[72] KUHN, MATTHEW, US
[72] TUSHAR, SHARMA, US
[71] ETHICON, INC., US
[85] 2022-06-21
[86] 2020-10-07 (PCT/IB2020/059434)
[87] (WO2021/130563)
[30] US (16/724,451) 2019-12-23

[21] **3,165,724**
[13] A1
[51] **Int.Cl. D21H 23/52 (2006.01) B05D 1/28 (2006.01) C08J 5/18 (2006.01) D21H 19/12 (2006.01) B05C 1/14 (2006.01) B32B 3/28 (2006.01) D21H 11/18 (2006.01) D21H 17/17 (2006.01) D21H 21/16 (2006.01)**
[25] EN
[54] **A METHOD FOR COATING A FIBROUS WEB, AND A SURFACE COATED FIBROUS WEB**
[54] **PROCEDE DE REVETEMENT D'UNE BANDE FIBREUSE ET BANDE FIBREUSE REVETUE EN SURFACE**
[72] BACKFOLK, KAJ, FI
[72] HEISKANEN, ISTO, FI
[72] NYLEN, OTTO, FI
[71] STORA ENSO OYJ, FI
[85] 2022-06-21
[86] 2020-12-22 (PCT/IB2020/062323)
[87] (WO2021/130667)
[30] SE (1951552-7) 2019-12-23

[21] **3,165,725**
[13] A1
[51] **Int.Cl. C08J 5/18 (2006.01) B32B 7/06 (2019.01) C09D 5/20 (2006.01) C09D 101/02 (2006.01) C09D 191/00 (2006.01) D21H 11/18 (2006.01) D21H 23/28 (2006.01)**
[25] EN
[54] **A METHOD OF MAKING A CELLULOSE FILM COMPRISING MICROFIBRILLATED CELLULOSE**
[54] **PROCEDE DE FABRICATION D'UN FILM DE CELLULOSE COMPRENANT DE LA CELLULOSE MICROFIBRILLEE**
[72] NYLEN, OTTO, FI
[72] HEISKANEN, ISTO, FI
[72] KNOOS, ISABEL, SE
[71] STORA ENSO OYJ, FI
[85] 2022-06-21
[86] 2020-12-22 (PCT/IB2020/062324)
[87] (WO2021/130668)
[30] SE (1951556-8) 2019-12-23

[21] **3,165,726**
[13] A1
[51] **Int.Cl. G06K 9/62 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING DEVICE ATTRIBUTES USING A CLASSIFIER HIERARCHY**
[54] **SYSTEME ET PROCEDE DE DETERMINATION D'ATTRIBUTS DE DISPOSITIF A L'AIDE D'UNE HIERARCHIE DE CLASSIFICATEURS**
[72] HANETZ, TOM, IL
[72] FRIEDLANDER, YUVAL, IL
[71] ARMIS SECURITY LTD., IL
[85] 2022-06-21
[86] 2020-12-28 (PCT/IB2020/062495)
[87] (WO2021/137138)
[30] US (16/729,823) 2019-12-30

[21] **3,165,727**
[13] A1
[51] **Int.Cl. A01M 7/00 (2006.01)**
[25] EN
[54] **AGRICULTURAL SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES AGRICOLES**
[72] STRNAD, MICHAEL, US
[72] STOLLER, JASON, US
[72] WILDERMOUTH, PAUL, US
[71] PRECISION PLANTING LLC, US
[85] 2022-06-21
[86] 2021-03-25 (PCT/IB2021/052480)
[87] (WO2021/198860)
[30] US (63/004,690) 2020-04-03
[30] US (63/004,704) 2020-04-03

[21] **3,165,729**
[13] A1
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/12 (2006.01) A61B 18/16 (2006.01)**
[25] EN
[54] **TREATMENT OF CARDIAC TISSUE WITH PULSED ELECTRIC FIELDS**
[54] **TRAITEMENT DE TISSU CARDIAQUE A L'AIDE DE CHAMPS ELECTRIQUES PULSES**
[72] EYSTER, CURT ROBERT, US
[72] CASTELLVI, QUIM, ES
[72] GUNDERT, TIMOTHY JAMES, US
[72] NEAL, ROBERT E., II, US
[72] WALDSTREICHER, JONATHAN R., US
[72] GANDIONCO, ISIDRO, US
[72] GIROUARD, STEVEN D., US
[72] MEDIRATTA, VIKRAMADITYA, US
[72] TAYLOR, KEVIN JAMES, US
[72] VACHANI, ARMAAN G., US
[72] KRIMSKY, WILLIAM S., US
[72] PENDEKANTI, RAJESH, US
[71] GALVANIZE THERAPEUTICS, INC., US
[85] 2022-06-20
[86] 2020-12-18 (PCT/US2020/066205)
[87] (WO2021/127558)
[30] US (62/949,633) 2019-12-18
[30] US (63/000,275) 2020-03-26
[30] US (63/083,644) 2020-09-25

[21] **3,165,730**
[13] A1
[51] **Int.Cl. A61L 27/38 (2006.01) A61L 27/54 (2006.01)**
[25] EN
[54] **COMPOSITION FOR IMPROVED BONE FRACTURE HEALING**
[54] **COMPOSITION POUR AMELIORATION DE LA GUERISON DES FRACTURES OSSEUSES**
[72] KALLALA, RAMI, GB
[71] CORTHOTEC LTD, GB
[85] 2022-06-22
[86] 2020-12-21 (PCT/GB2020/053324)
[87] (WO2021/130479)
[30] GB (1919285.5) 2019-12-24

[21] **3,165,731**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6862 (2018.01)**
[25] EN
[54] **SIMPLIFIED POLYNUCLEOTIDE SEQUENCE DETECTION METHOD**
[54] **PROCEDE SIMPLIFIE DE DETECTION DE SEQUENCE POLYNUCLEOTIDIQUE**
[72] POWALOWSKA, PAULINA KLAUDYNA, GB
[72] DA SILVA-WEATHERLEY, ANA LUISA BRAS DOS SANTOS RIBEIRO, GB
[72] STOLAREK-JANUSZKIEWICZ, MAGDALENA, GB
[72] BALMFORTH, BARNABY WILLIAM, GB
[71] BIOFIDELITY LTD, GB
[85] 2022-06-22
[86] 2020-12-23 (PCT/GB2020/053361)
[87] (WO2021/130494)
[30] GB (1919186.5) 2019-12-23
[30] EP (20181513.1) 2020-06-22
[30] US (16/911,762) 2020-06-25

[21] **3,165,732**
[13] A1
[51] **Int.Cl. A61K 31/277 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **ICAN DERIVATIVES FOR ANTIFUNGAL USE**
[54] **DERIVES D'ICAN DESTINES A ETRE UTILISES COMME ANTIFONGIQUES**
[72] KEKI, SANDOR, HU
[72] KISS, ALEXANDRA, HU
[72] MAJOROS, LASZLO, HU
[72] NAGY, MIKLOS, HU
[72] NAGY, ZSOLT LASZLO, HU
[72] POCSI, ISTVAN, HU
[72] RACZ, DAVID, HU
[72] SZEMAN-NAGY, GABOR, HU
[72] MATHENE SZIGETI, ZSUZSA, HU
[72] TALAS, LASZLO, HU
[72] TOTH, ZOLTAN, HU
[72] ZSUGA, MIKLOS, HU
[71] DEBRECENI EGYETEM, HU
[85] 2022-06-22
[86] 2020-12-23 (PCT/HU2020/050064)
[87] (WO2021/130509)
[30] HU (P1900454) 2019-12-23

[21] **3,165,733**
[13] A1
[51] **Int.Cl. C22F 1/04 (2006.01) C22C 21/02 (2006.01) C22C 21/08 (2006.01) C22C 21/10 (2006.01) C22C 21/16 (2006.01) C22F 1/043 (2006.01) C22F 1/047 (2006.01) C22F 1/05 (2006.01) C22F 1/053 (2006.01) C22F 1/057 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING AN ALUMINIUM ALLOY ROLLED PRODUCT**
[54] **PROCEDE DE FABRICATION D'UN PRODUIT LAMINE EN ALLIAGE D'ALUMINIUM**
[72] MEYER, PHILIPPE, DE
[71] ALERIS ROLLED PRODUCTS GERMANY GMBH, DE
[85] 2022-06-22
[86] 2020-12-18 (PCT/IB2020/062215)
[87] (WO2021/130636)
[30] EP (19219448.8) 2019-12-23

[21] **3,165,735**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61K 31/538 (2006.01) A61K 31/553 (2006.01) A61P 31/12 (2006.01) A61P 31/18 (2006.01) A61P 35/00 (2006.01) C07D 519/00 (2006.01)**
[25] EN
[54] **DIACYLGLYCEROL KINASE MODULATING COMPOUNDS**
[54] **COMPOSES MODULANT LA DIACYLGLYCEROL KINASE**
[72] SAWA, MASAAKI, JP
[72] ARAI, MAI, JP
[72] NAKAI, RYOKO, JP
[72] MATSUMOTO, HIROKAZU, JP
[72] PUGH, CATHERINE, US
[72] HU, ERIC, US
[72] GUERRERO, JUAN, US
[72] JACOBSEN, JESSE, US
[72] MEDLEY, JONATHAN WILLIAM, US
[72] XU, JIE, US
[72] LAD, LATESH, US
[72] PATEL, LEENA, US
[72] GRAUPE, MICHAEL, US
[72] ZHU, QINGMING, US
[72] HOLMBO, STEPHEN, US
[72] KOBAYASHI, TETSUYA, US
[72] WATKINS, WILL, US
[72] MOAZAMI, YASAMIN, US
[72] YEUNG, SUET C., US
[72] CODELLI, JULIAN A., US
[72] WEAVER, HEATH A., US
[71] CARNA BIOSCIENCES, INC., JP
[71] GILEAD SCIENCES, INC., US
[85] 2022-06-22
[86] 2020-12-18 (PCT/IB2020/062229)
[87] (WO2021/130638)
[30] JP (2019-232938) 2019-12-24
[30] JP (2020-135810) 2020-08-11

[21] **3,165,736**
[13] A1
[51] **Int.Cl. C08G 69/26 (2006.01) C08G 69/28 (2006.01) C08G 69/32 (2006.01) C08G 73/10 (2006.01) C08G 73/14 (2006.01)**
[25] EN
[54] **METHODS FOR PREPARING MIXED POLYAMIDES, POLYIMIDES AND POLYAMIDEIMIDES VIA HYDROTHERMAL POLYMERIZATION**
[54] **PROCEDES DE PREPARATION D'UN MELANGE DE POLYAMIDES, DE POLYIMIDES ET DE POLYAMIDEIMLDES PAR L'INTERMEDIAIRE D'UNE POLYMERISATION HYDROTHERMALE**
[72] PATIL, ABHIMANYU O., US
[72] BODIGE, SATISH, US
[72] BOSSE, AUGUST W., US
[72] ALTINTAS, OZCAN, US
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2022-06-22
[86] 2020-12-30 (PCT/US2020/067398)
[87] (WO2021/141807)
[30] US (62/958,751) 2020-01-09

[21] **3,165,738**
[13] A1
[51] **Int.Cl. A61K 38/16 (2006.01) A61K 38/22 (2006.01) A61K 38/25 (2006.01)**
[25] EN
[54] **TREATMENT OF MILD TRAUMATIC BRAIN INJURY**
[54] **TRAITEMENT D'UN TRAUMATISME CRANIEN LEGER**
[72] BANSAL, VISHAL, US
[72] SHAH, KARTIK, US
[72] WYAND, MICHAEL, US
[71] OXEIA BIOPHARMACEUTICALS, INC., US
[85] 2022-06-22
[86] 2020-12-22 (PCT/US2020/066703)
[87] (WO2021/133844)
[30] US (62/953,130) 2019-12-23

[21] **3,165,739**
[13] A1
[51] **Int.Cl. H04W 72/08 (2009.01) H04W 76/14 (2018.01) H04L 5/00 (2006.01)**
[25] EN
[54] **RESOURCE RETRIEVE PROCEDURE**
[54] **PROCEDURE DE RECUPERATION DE RESSOURCES**
[72] HUI, BING, US
[72] YI, YUNJUNG, US
[72] DINAN, ESMAEL, US
[71] OFINNO, LLC, US
[85] 2022-06-22
[86] 2021-02-16 (PCT/US2021/018236)
[87] (WO2021/163699)
[30] US (62/975,909) 2020-02-13

[21] **3,165,740**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 9/24 (2006.01) G06F 3/041 (2006.01)**
[25] EN
[54] **INTERACTIVE TOUCH CONTROL FOR A PINBALL MACHINE**
[54] **COMMANDE TACTILE INTERACTIVE POUR FLIPPER**
[72] MUELLER, ROBERT, US
[72] RUSHFORTH, CRAIG, US
[72] FINUCANE, PATRICK, US
[72] CARLTON, DREW, US
[72] HERNANDEZ, GABRIEL, US
[72] BETTS, SHAWN, US
[72] DELORENZO, STEVEN, US
[72] VELA, DANIEL, US
[72] SANCHEZ, JEREMY, US
[72] CRUZ-LAMBERT, JOSUE, US
[72] BRADSHAW, MATTHEW, US
[72] ADRIAN, BLAKE, US
[72] AVRETT, TEAGHAN, US
[72] GRAHAM, RYAN, US
[72] HUNSAKER, ETHAN, US
[72] CALL, MARC, US
[71] DEEPROOT CAPITAL MANAGEMENT LLC, US
[85] 2022-06-22
[86] 2020-12-23 (PCT/US2020/066966)
[87] (WO2021/133990)
[30] US (62/952,646) 2019-12-23

[21] **3,165,745**
[13] A1
[51] **Int.Cl. F21K 9/69 (2016.01) H05B 45/10 (2020.01) F21S 10/00 (2006.01) F21V 23/04 (2006.01)**
[25] EN
[54] **LIGHTING FIXTURE FOR DYNAMIC LIGHTING EFFECTS**
[54] **APPAREIL D'ECLAIRAGE POUR EFFETS D'ECLAIRAGE DYNAMIQUE**
[72] BOOMGAARDEN, MARK P., US
[71] IDEAL INDUSTRIES LIGHTING LLC, US
[85] 2022-06-22
[86] 2021-02-04 (PCT/US2021/016545)
[87] (WO2021/167793)
[30] US (16/794,626) 2020-02-19

[21] **3,165,748**
[13] A1
[51] **Int.Cl. A01N 25/00 (2006.01) A01N 37/34 (2006.01) A01N 43/38 (2006.01)**
[25] EN
[54] **PLANT REGULATOR COMPOSITIONS**
[54] **COMPOSITIONS DE REGULATEUR DE CROISSANCE**
[72] WANG, XI, CA
[72] PENG, LIPING, US
[71] SUNTTON COMPANY LIMITED, CN
[71] WANG, XI, CA
[71] PENG, LIPING, US
[85] 2022-06-22
[86] 2021-01-28 (PCT/US2021/015482)
[87] (WO2021/162864)
[30] US (62/976,946) 2020-02-14
[30] US (17/158,965) 2021-01-26

[21] **3,165,750**
[13] A1
[51] **Int.Cl. F24C 1/00 (2006.01) F24C 7/04 (2021.01)**
[25] EN
[54] **HEATING COOKING APPARATUS**
[54] **APPAREIL DE CUISSON PAR CHAUFFAGE**
[72] NISHIJIMA, MASAHIRO, JP
[72] IWAMOTO, MASAYUKI, JP
[72] ASAMI, SHINJI, JP
[72] OOTANI, TSUYOSHI, JP
[72] SUENAGA, HIROMI, JP
[72] KITAURA, TOMOHIRO, JP
[72] SHINOHARA, YU, JP
[71] SHARP KABUSHIKI KAISHA, JP
[85] 2022-01-28
[86] 2020-03-16 (PCT/JP2020/011444)
[87] (WO2021/019824)
[30] JP (2019-141448) 2019-07-31

[21] **3,165,752**
[13] A1
[51] **Int.Cl. C22B 3/04 (2006.01) C22B 34/22 (2006.01) C22B 34/34 (2006.01)**
[25] EN
[54] **METALS RECOVERY FROM SPENT CATALYST**
[54] **RECUPERATION DE METAUX A PARTIR D'UN CATALYSEUR USE**
[72] BHADURI, RAHUL SHANKAR, US
[72] REYNOLDS, BRUCE EDWARD, US
[72] MIRONOV, OLEG A., US
[72] KUPERMAN, ALEXANDER, US
[72] SHIFLETT, WOODROW K., US
[71] CHEVRON U.S.A. INC., US
[85] 2022-06-22
[86] 2021-01-20 (PCT/US2021/014098)
[87] (WO2021/150552)
[30] US (62/963,222) 2020-01-20
[30] US (62/963,215) 2020-01-20

[21] **3,165,753**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) A61K 38/17 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **CD122 WITH ALTERED ICD STAT SIGNALING**
[54] **CD122 A SIGNALISATION ICD STAT MODIFIEE**
[72] PENAFLOR ASPURIA, PAUL-JOSEPH, US
[72] LUPARDUS, PATRICK J., US
[71] SYNTHEKINE, INC., US
[85] 2022-06-22
[86] 2021-01-14 (PCT/US2021/013519)
[87] (WO2021/146485)
[30] US (62/961,157) 2020-01-14

[21] **3,165,754**
[13] A1
[51] **Int.Cl. A61B 5/05 (2021.01)**
[25] EN
[54] **BIOPSY MARKER WITH ANCHORING CAPABILITIES**
[54] **MARQUEUR DE BIOPSIE AYANT DES CAPACITES D'ANCRAGE**
[72] AHARI, FREDERICK, US
[71] MED-GENESIS, LLC, US
[85] 2022-06-22
[86] 2021-01-11 (PCT/US2021/012934)
[87] (WO2021/150390)
[30] US (62/963,707) 2020-01-21
[30] US (16/877,720) 2020-05-19
[30] US (16/943,582) 2020-07-30
[30] US (17/076,096) 2020-10-21

[21] **3,165,756**
[13] A1
[51] **Int.Cl. A61K 38/46 (2006.01) C12N 15/113 (2010.01) C12N 9/16 (2006.01) C12N 9/22 (2006.01) C12N 15/09 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **RECRUITMENT OF DNA POLYMERASE FOR TEMPLATED EDITING**
[54] **RECRUTEMENT D'ADN POLYMERASE POUR EDITION A MATRICE**
[72] NIE, JINGYI, US
[72] HUMMEL, AARON, US
[72] LAWIT, SHAI JOSHUA, US
[71] PAIRWISE PLANTS SERVICES, INC., US
[85] 2022-06-22
[86] 2021-01-06 (PCT/US2021/012283)
[87] (WO2021/141970)
[30] US (62/957,542) 2020-01-06

[21] **3,165,761**
[13] A1
[51] **Int.Cl. E21B 43/14 (2006.01) E21B 33/12 (2006.01) E21B 34/06 (2006.01) E21B 43/16 (2006.01) E21B 43/17 (2006.01) E21B 43/24 (2006.01)**
[25] EN
[54] **METHODS OF PRESSURIZING A WELLBORE TO ENHANCE HYDROCARBON PRODUCTION**
[54] **PROCEDES DE PRESSURISATION D'UN PUITS DE FORAGE POUR AMELIORER LA PRODUCTION D'HYDROCARBURES**
[72] FU, XUEBING, US
[71] FU, XUEBING, US
[85] 2022-06-22
[86] 2020-12-22 (PCT/US2020/070950)
[87] (WO2021/134104)
[30] US (62/952,378) 2019-12-22
[30] US (62/978,587) 2020-02-19

[21] **3,165,763**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C12Q 1/6869 (2018.01) G16B 20/00 (2019.01) G16B 20/10 (2019.01) G16B 30/10 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MOLECULAR DISEASE ASSESSMENT VIA ANALYSIS OF CIRCULATING TUMOR DNA**
[54] **PROCEDES ET SYSTEMES D'EVALUATION MOLECULAIRE DE MALADIE PAR ANALYSE DE L'ADN TUMORAL CIRCULANT**
[72] ROBERTSON, ALEX, US
[72] PETERMAN, NEIL, US
[72] LAMBERT, NICOLE, US
[72] TEZCAN, HALUK, US
[72] SRIVAS, ROHITH, US
[72] GEORGE, PETER, US
[72] CLOSE, JASON, US
[71] LEXENT BIO, INC., US
[85] 2022-06-22
[86] 2020-12-23 (PCT/US2020/066976)
[87] (WO2021/133993)
[30] US (62/953,368) 2019-12-24
[30] US (62/993,564) 2020-03-23

[21] **3,165,765**
[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01) A61K 31/568 (2006.01) A61K 31/575 (2006.01) C07J 31/00 (2006.01)**
[25] EN
[54] **CRYSTALLINE AND LIQUID CRYSTALLINE 25-HYDROXY-CHOLEST-5-EN-3-SULFATE SODIUM AND METHODS FOR PREPARING SAME**
[54] **25-HYDROXY-CHOLEST-5-EN-3-SULFATE SODIQUE CRISTALLIN ET CRISTALLIN LIQUIDE ET SES PROCEDES DE PREPARATION**
[72] MIKSZTAL, ANDREW, US
[72] JOHNSTONE, SHAWN, CA
[72] HOLTZ-MULHOLLAND, MICHAEL, CA
[72] LOPEZ, FLAVIO, US
[72] SARD, HOWARD, US
[72] LI, JIE, US
[72] GONZALEZ, MARIO, US
[72] PARENT, STEPHAN D., US
[72] HOUSTON, TRAVIS LEE, US
[72] WENSLOW, ROBERT, US
[71] DURECT CORPORATION, US
[85] 2022-06-22
[86] 2020-12-23 (PCT/US2020/066947)
[87] (WO2021/133976)
[30] US (62/954,279) 2019-12-27

[21] **3,165,766**
[13] A1
[51] **Int.Cl. A61G 7/05 (2006.01) A61G 7/00 (2006.01) B60B 33/00 (2006.01)**
[25] EN
[54] **PATIENT TRANSPORT APPARATUS WITH ELECTRO-MECHANICAL BRAKING SYSTEM**
[54] **APPAREIL DE TRANSPORT DE PATIENT AVEC SYSTEME DE FREINAGE ELECTROMECANIQUE**
[72] BAKER, CHARLES, DONALD, US
[72] BHIMAVARAPU, KRISHNA SANDEEP, US
[72] CHILDS, WILLIAM D., US
[72] ETHEN, TYLER, US
[72] NEIHOUSER, KIRBY M., US
[72] PAUL, ANISH, US
[72] VYTLA, LAVANYA, US
[71] STRYKER CORPORATION, US
[85] 2022-06-22
[86] 2020-12-23 (PCT/US2020/066767)
[87] (WO2021/138176)
[30] US (62/954,765) 2019-12-30

[21] **3,165,768**
[13] A1
[51] **Int.Cl. G06K 9/00 (2022.01) G06T 1/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DIGITAL STAINING OF MICROSCOPY IMAGES USING DEEP LEARNING**
[54] **PROCEDE ET SYSTEME DE COLORATION NUMERIQUE D'IMAGES DE MICROSCOPIE A L'AIDE D'UN APPRENTISSAGE PROFOND**
[72] OZCAN, AYDOGAN, US
[72] RIVENSON, YAIR, US
[72] WANG, HONGDA, US
[72] LUO, YILIN, US
[72] DE HAAN, KEVIN, US
[72] ZHANG, YIJIE, US
[72] BAI, BIJIE, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-06-22
[86] 2020-12-22 (PCT/US2020/066708)
[87] (WO2021/133847)
[30] US (62/952,964) 2019-12-23
[30] US (63/058,329) 2020-07-29

[21] **3,165,770**
[13] A1
[51] **Int.Cl. A61B 34/30 (2016.01) B60W 60/00 (2020.01) A61M 1/14 (2006.01)**
[25] EN
[54] **A MEDICAL SYSTEM WITH DOCKING STATION AND MOBILE MACHINE**
[54] **SYSTEME MEDICAL AVEC STATION D'ACCUEIL ET MACHINE MOBILE**
[72] YUDS, DAVID, US
[72] DURRANI, SAMIULLAH K., US
[71] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2022-06-22
[86] 2020-12-14 (PCT/US2020/064818)
[87] (WO2021/133580)
[30] US (16/726,391) 2019-12-24

[21] **3,165,771**
[13] A1
[51] **Int.Cl. H04W 56/00 (2009.01) H04B 7/185 (2006.01)**
[25] EN
[54] **SYSTEM WITH MODULATED SIGNAL TO COMPENSATE FREQUENCY ERRORS IN LTE SIGNALS**
[54] **SYSTEME A SIGNAL MODULE PERMETTANT DE COMPENSER DES ERREURS DE FREQUENCE DANS DES SIGNAUX LTE**
[72] YAO, HUIWEN, US
[72] TANGUTOORI, PRAVEEN KUMAR, IN
[71] AST & SCIENCE, LLC, US
[85] 2022-06-22
[86] 2020-11-20 (PCT/US2020/061532)
[87] (WO2021/145956)
[30] IN (202011001814) 2020-01-15
[30] US (63/033,087) 2020-06-01

[21] **3,165,779**
[13] A1
[51] **Int.Cl. G06F 21/57 (2013.01) G06F 21/60 (2013.01)**
[25] EN
[54] **RECOVERY MATURITY INDEX (RMI) - BASED CONTROL OF DISASTER RECOVERY**
[54] **CONTROLE FONDE SUR UN INDICE DE MATURITE DE REPRISE (RMI) DE REPRISE APRES SINISTRE**
[72] THAKER, DARPAN, US
[71] SUNGARD AVAILABILITY SERVICES, LP, US
[85] 2022-06-22
[86] 2020-11-18 (PCT/US2020/060936)
[87] (WO2021/101918)
[30] US (62/922,239) 2019-11-18
[30] US (16/868,135) 2020-05-06

[21] **3,165,793**
[13] A1
[51] **Int.Cl. A61C 8/00 (2006.01)**
[25] EN
[54] **DENTAL IMPLANT AND DENTAL RESTORATION SYSTEM COMPRISING SUCH A DENTAL IMPLANT**
[54] **IMPLANT DENTAIRE ET SYSTEME DE RESTAURATION DENTAIRE COMPRENANT UN TEL IMPLANT DENTAIRE**
[72] VOLKL, LOTHAR, DE
[72] FECHER, STEFAN, DE
[71] DEGUDENT GMBH, DE
[71] DENTSPLY SIRONA INC., US
[85] 2022-06-15
[86] 2020-12-10 (PCT/EP2020/085527)
[87] (WO2021/122308)
[30] EP (19217241.9) 2019-12-17

[21] **3,165,796**
[13] A1
[51] **Int.Cl. H04N 21/8543 (2011.01) G11B 27/031 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CAPTURING VIDEO AND ARRANGING SEQUENCES OF SCENES**
[54] **SYSTEME ET PROCEDE DE CAPTURE DE VIDEO ET D'ORDONNANCEMENT DE SEQUENCE DE SCENES**
[72] MARQUES DE ALMEIDA VAZ, FELIPE, BR
[72] DA CRUZ MACHADO, LUIS FELIPE, BR
[72] FERREIRA DOS SANTOS, RODRIGO, BR
[71] GLOBO COMUNICACAO E PARTICIPACOES S.A., BR
[85] 2022-06-20
[86] 2020-06-04 (PCT/BR2020/050200)
[87] (WO2021/119773)
[30] BR (BR10 2019027509-0) 2019-12-20

[21] **3,165,801**
[13] A1
[51] **Int.Cl. A47B 46/00 (2006.01) A47B 88/42 (2017.01) A47B 88/48 (2017.01) A47B 88/70 (2017.01) A47B 96/16 (2006.01)**
[25] EN
[54] **CORNER CABINET AND CORNER DRAWER**
[54] **ARMOIRE D'ANGLE ET TIROIR D'ANGLE**
[72] HUFFMAN, ACY, US
[72] WARD, KEVIN JR., US
[71] CABINETWORKS GROUP MICHIGAN, LLC, US
[85] 2022-07-22
[86] 2020-06-12 (PCT/US2020/037547)
[87] (WO2020/252351)
[30] US (62/860,950) 2019-06-13

[21] **3,165,835**
[13] A1
[51] **Int.Cl. A01N 1/02 (2006.01) C12N 5/07 (2010.01) A01N 3/00 (2006.01) C12N 1/04 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR HIGH-STABILITY SUPERCOOLING OF AQUEOUS MEDIA AND BIOLOGICAL MATTER**
[54] **DISPOSITIFS ET PROCEDES POUR UNE SURFUSION A HAUTE STABILITE DE MILIEUX AQUEUX ET DE MATIERE BIOLOGIQUE**
[72] POWELL-PALM, MATTHEW J., US
[72] RUBINSKY, BORIS, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-06-21
[86] 2021-01-09 (PCT/US2021/012863)
[87] (WO2021/146122)
[30] US (62/960,524) 2020-01-13

[21] **3,165,836**
[13] A1
[51] **Int.Cl. E21B 31/113 (2006.01) E21B 4/14 (2006.01) E21B 31/00 (2006.01)**
[25] EN
[54] **MECHANICALLY LOCKING HYDRAULIC JAR AND METHOD**
[54] **COULISSE HYDRAULIQUE A VERROUILLAGE MECANIQUE ET PROCEDE ASSOCIE**
[72] VON GYNZ-REKOWSKI, GUNTHER HH, US
[72] MILLER, MARK JOSHUA, US
[72] RUDY, KEVIN JAMES, US
[72] KOENIG, RUSSELL WAYNE, US
[71] WORKOVER SOLUTIONS, INC., US
[85] 2022-06-22
[86] 2020-10-23 (PCT/US2020/057049)
[87] (WO2021/137922)
[30] US (16/731,239) 2019-12-31

[21] **3,165,837**
[13] A1
[51] **Int.Cl. A47L 11/30 (2006.01) A47L 11/40 (2006.01)**
[25] EN
[54] **SQUEEGEE ASSEMBLY WITH IMPROVED WASTE PICK-UP**
[54] **ENSEMBLE RACLETTE A RAMASSAGE DE DECHETS AMELIORE**
[72] WOOD, DAVID W., US
[71] NILFISK A/S, DK
[85] 2022-06-23
[86] 2020-12-23 (PCT/DK2020/050406)
[87] (WO2021/136572)
[30] US (62/955,234) 2019-12-30

[21] **3,165,838**
[13] A1
[51] **Int.Cl. A61B 50/30 (2016.01) A61B 50/18 (2016.01) A61B 50/33 (2016.01) A61B 50/36 (2016.01)**
[25] EN
[54] **MEDICAL DEVICE TRANSPORTATION SYSTEMS**
[54] **SYSTEMES DE TRANSPORT DE DISPOSITIF MEDICAL**
[72] CUMMINGS, NATHAN T., US
[72] DANDIN, JENNY, US
[72] DALENA, MICHELE E., US
[72] BORZILLO, ALYSON, US
[72] LAFLAMME, RYAN, US
[72] TALSKY, JOSHUA, US
[72] COLLINS, MARK, US
[72] LAROI, JOHN, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-06-22
[86] 2020-12-16 (PCT/US2020/065284)
[87] (WO2021/133604)
[30] US (62/953,358) 2019-12-24

[21] **3,165,839**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 31/00 (2006.01) A61P 31/12 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **THERAPY FOR THE TREATMENT OF CANCER**
[54] **THERAPIE DE TRAITEMENT DU CANCER**
[72] SUMROW, BRADLEY JAMES, US
[72] LA MOTTE-MOHS, ROSS, US
[72] WIGGINTON, JON MARC, US
[72] BONVINI, EZIO, US
[72] MOORE, PAUL A., US
[72] KOENIG, SCOTT, US
[72] ZHANG, XIAOYU, US
[71] MACROGENICS, INC., US
[85] 2022-06-22
[86] 2020-12-18 (PCT/US2020/065873)
[87] (WO2021/133653)
[30] US (62/952,878) 2019-12-23
[30] US (62/952,859) 2019-12-23
[30] US (63/019,857) 2020-05-04
[30] US (63/021,556) 2020-05-07
[30] US (63/031,453) 2020-05-28
[30] US (63/123,581) 2020-12-10

[21] **3,165,846**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/17 (2006.01) A61P 25/28 (2006.01) C07K 14/475 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **PROGRANULIN VARIANTS**
[54] **VARIANTS DE LA PROGRANULINE**
[72] CHERF, GERALD MAXWELL, US
[72] KANNAN, GUNASEKARAN, US
[72] LEXA, KATRINA W., US
[72] LOW, RAY L.Y., US
[72] PROROK, RACHEL, US
[72] SRIVASTAVA, ANKITA, US
[71] DENALI THERAPEUTICS INC., US
[85] 2022-06-22
[86] 2020-12-23 (PCT/US2020/066831)
[87] (WO2021/133907)
[30] US (62/953,099) 2019-12-23
[30] US (63/091,819) 2020-10-14

[21] **3,165,847**
[13] A1
[51] **Int.Cl. G02B 6/122 (2006.01) G02B 6/30 (2006.01) G02B 6/35 (2006.01) G02B 6/42 (2006.01)**
[25] EN
[54] **OPTICAL DEVICE**
[54] **DISPOSITIF OPTIQUE**
[72] PERNICE, WOLFRAM, DE
[72] SCHUCK, CARSTEN, DE
[72] BEUTEL, FABIAN, DE
[72] WALTER, NICOLAI, DE
[72] GEHRING, HELGE, DE
[72] HARTMANN, WLADICK, DE
[72] WOLFF, MARTIN, DE
[71] WESTFALISCHE WILHELMS-UNIVERSITAT MUNSTER, DE
[85] 2022-06-23
[86] 2020-06-04 (PCT/EP2020/065462)
[87] (WO2020/245259)
[30] DE (10 2019 115 410.3) 2019-06-06

[21] **3,165,848**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/369 (2021.01) G06F 3/01 (2006.01)**
[25] EN
[54] **BRAIN COMPUTER INTERFACE RUNNING A TRAINED ASSOCIATIVE MODEL APPLYING MULTIWAY REGRESSION TO SIMULATE ELECTROCORTICOGRAPHY SIGNAL FEATURES FROM SENSED EEG SIGNALS, AND CORRESPONDING METHOD**
[54] **INTERFACE D'ORDINATEUR CEREBRAL EXECUTANT UN MODELE ASSOCIATIF FORME APPLIQUANT UNE REGRESSION MULTI-VOIES DESTINEE A SIMULER DES CARACTERISTIQUES DE SIGNAL D'ELECTROCORTICOGRAPHI E A PARTIR DE SIGNAUX D'EEG DETECTES, ET PROCEDE CORRESPONDANT**
[72] PAZDERSKI, PAWEL PIOTR, BE
[72] DE WACHTER, HANNES FLORA JAN, BE
[71] MINDSPELLER BCI BV, BE
[85] 2022-06-23
[86] 2020-12-18 (PCT/EP2020/087040)
[87] (WO2021/130115)
[30] NL (2024573) 2019-12-24

[21] **3,165,849**
[13] A1
[51] **Int.Cl. A01M 21/04 (2006.01)**
[25] EN
[54] **APPARATUS FOR APPLYING CONTACT RESISTANCE-REDUCING MEDIA AND APPLYING CURRENT TO PLANTS**
[54] **APPAREIL POUR APPLIQUER UN MILIEU REDUISANT LA RESISTANCE DE CONTACT ET APPLIQUER UN COURANT A DES PLANTES**
[72] LEHNEN, MARCUS, DE
[72] VANDENHIRTZ, DIRK GUIDO, DE
[71] CROP.ZONE GMBH, DE
[85] 2022-06-23
[86] 2020-12-23 (PCT/EP2020/087773)
[87] (WO2021/130318)
[30] DE (10 2019 135 768.3) 2019-12-23
[30] DE (10 2020 115 923.4) 2020-06-17

[21] **3,165,850**
[13] A1
[51] **Int.Cl. A01M 21/04 (2006.01) A01N 61/00 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **USE OF A SUBSTANCE MIXTURE THAT REDUCES CONTACT RESISTANCE**
[54] **UTILISATION D'UNE COMPOSITION REDUISANT LA RESISTANCE DE CONTACT**
[72] LEHNEN, MARCUS, DE
[72] VANDENHIRTZ, DIRK GUIDO, DE
[71] CROP.ZONE GMBH, DE
[85] 2022-06-23
[86] 2020-12-23 (PCT/EP2020/087778)
[87] (WO2021/130320)
[30] DE (10 2019 135 772.1) 2019-12-23
[30] DE (10 2020 115 925.0) 2020-06-17

[21] **3,165,853**
[13] A1
[51] **Int.Cl. B23K 26/348 (2014.01) B23K 9/16 (2006.01)**
[25] EN
[54] **JOINING METHOD**
[54] **PROCEDE D'ASSEMBLAGE**
[72] YOSHIDA, RYO, JP
[72] KANEKI, HIROSHI, JP
[71] NIPPON LIGHT METAL COMPANY, LTD., JP
[85] 2022-06-22
[86] 2020-12-02 (PCT/JP2020/044889)
[87] (WO2021/131560)
[30] JP (2019-234528) 2019-12-25

[21] **3,165,854**
[13] A1
[51] **Int.Cl. B23K 26/348 (2014.01) B23K 9/16 (2006.01)**
[25] EN
[54] **JOINING METHOD**
[54] **PROCEDE D'ASSEMBLAGE**
[72] YOSHIDA, RYO, JP
[72] KANEKI, HIROSHI, JP
[71] NIPPON LIGHT METAL COMPANY, LTD., JP
[85] 2022-06-22
[86] 2020-12-02 (PCT/JP2020/044890)
[87] (WO2021/131561)
[30] JP (2019-234529) 2019-12-25

[21] **3,165,855**
[13] A1
[51] **Int.Cl. C07K 14/135 (2006.01) A61K 38/00 (2006.01) A61P 31/14 (2006.01) C07K 19/00 (2006.01) C12N 15/45 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **MUTANT RSV F PROTEIN AND USE THEREOF**
[54] **PROTEINE F RSV MUTANTE ET SON UTILISATION**
[72] HOGIRI, TOMOHARU, JP
[72] KISHIDA, HIROYUKI, JP
[72] TAKEDOMI, KEI, JP
[72] BRANDUARDI, DAVIDE, US
[72] OLOO, ELIUD, US
[72] FEYFANT, ERIC, US
[72] ICHIHARA, OSAMU, JP
[71] MITSUBISHI TANABE PHARMA CORPORATION, JP
[85] 2022-06-22
[86] 2020-12-23 (PCT/JP2020/048254)
[87] (WO2021/132379)
[30] US (62/952,673) 2019-12-23

[21] **3,165,857**
[13] A1
[51] **Int.Cl. C12N 5/07 (2010.01) C07K 14/435 (2006.01) C12N 5/00 (2006.01) C12Q 1/02 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **METHOD FOR DETECTING PROTEIN IN EXTRACELLULAR VESICLES AND EXTRACELLULAR VESICLE MEMBRANE PERMEABILIZATION TREATMENT AGENT**
[54] **PROCEDE DE DETECTION DE PROTEINE DANS DES VESICULES EXTRACELLULAIRES ET AGENT DE TRAITEMENT DE PERMEABILISATION DE MEMBRANE DE VESICULE EXTRACELLULAIRE**
[72] AKIYAMA, YASUYUKI, JP
[72] OHTAKE, NORIHISA, JP
[71] TOSOH CORPORATION, JP
[85] 2022-06-22
[86] 2020-12-24 (PCT/JP2020/048510)
[87] (WO2021/132489)
[30] JP (2019-238075) 2019-12-27
[30] JP (2019-238071) 2019-12-27

[21] **3,165,858**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTI-FUNGAL COMPOSITIONS AND METHODS FOR USING SAME**
[54] **COMPOSITIONS ANTIFONGIQUES ET LEURS PROCEDES D'UTILISATION**
[72] MADDI, ABHIRAM, US
[72] FREE, STEPHEN J., US
[71] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
[85] 2022-06-23
[86] 2020-11-16 (PCT/US2020/060697)
[87] (WO2021/097411)
[30] US (62/936,160) 2019-11-15

[21] **3,165,859**
[13] A1
[51] **Int.Cl. B32B 7/023 (2019.01) B32B 7/025 (2019.01) B32B 5/26 (2006.01) B32B 5/28 (2006.01) B32B 27/04 (2006.01) H01Q 1/42 (2006.01)**
[25] EN
[54] **RADOME DESIGN**
[54] **CONCEPTION DE RADOME**
[72] KIECKHAFER, ALEXANDER, US
[72] OSWALD, ERIC R., US
[71] SAINT-GOBAIN PERFORMANCE PLASTICS CORPORATION, US
[85] 2022-06-23
[86] 2020-12-15 (PCT/US2020/065010)
[87] (WO2021/138037)
[30] US (62/955,072) 2019-12-30
[30] US (62/972,698) 2020-02-11

[21] **3,165,860**
[13] A1
[51] **Int.Cl. E21B 41/00 (2006.01) E21B 43/00 (2006.01) E21B 43/12 (2006.01) E21B 43/14 (2006.01)**
[25] EN
[54] **INTELLIGENT COMPLETION CONTROL IN RESERVOIR MODELING**
[54] **COMMANDE DE COMPLETION INTELLIGENTE DANS UNE MODELISATION DE RESERVOIR**
[72] SHAALAN, TAREQ, SA
[72] CHEN, ZHEN, SA
[71] SAUDI ARABIAN OIL COMPANY, SA
[85] 2022-06-23
[86] 2020-12-17 (PCT/US2020/065524)
[87] (WO2021/133627)
[30] US (16/728,569) 2019-12-27

[21] **3,165,861**
[13] A1
[51] **Int.Cl. A61B 18/20 (2006.01) A61B 90/00 (2016.01) A61B 18/00 (2006.01) A61B 18/18 (2006.01) A61B 18/22 (2006.01) A61N 5/067 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS AND COMPUTER-ACCESSIBLE MEDIUM FOR A FEEDBACK ANALYSIS AND/OR TREATMENT OF AT LEAST ONE PATIENT USING AN ELECTROMAGNETIC RADIATION TREATMENT DEVICE**
[54] **SYSTEMES, PROCEDES ET SUPPORT ACCESSIBLE PAR ORDINATEUR POUR UNE ANALYSE DE RETROACTION ET/OU UN TRAITEMENT D'AU MOINS UN PATIENT A L'AIDE D'UN DISPOSITIF DE TRAITEMENT PAR RAYONN EMENT ELECTROMAGNETIQUE**
[72] BHAWALKAR, JAYANT, US
[72] LEVINE, LEWIS J., US
[72] DRESSER, CHARLES HOLLAND, US
[72] KATKAM, RAJENDER, US
[71] AVAVA, INC., US
[85] 2022-06-23
[86] 2020-12-18 (PCT/US2020/066016)
[87] (WO2021/133673)
[30] US (62/952,793) 2019-12-23

[21] **3,165,862**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61N 5/10 (2006.01)**
[25] EN
[54] **STABILIZATION OF MHC COMPLEXES**
[54] **STABILISATION DE COMPLEXES CMH**
[72] SHOKAT, KEVAN M., US
[72] ZHANG, ZIYANG, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-06-23
[86] 2020-12-21 (PCT/US2020/066468)
[87] (WO2021/133742)
[30] US (62/952,800) 2019-12-23

[21] **3,165,863**
[13] A1
[51] **Int.Cl. E04F 19/02 (2006.01)**
[25] EN
[54] **CORNER STRUCTURES**
[54] **STRUCTURES D'ANGLE**
[72] CLINE, STEPHEN, US
[72] KAMATH, MITHUN N., US
[72] HOUSE, MICHAEL, US
[72] LOVE, NICOLE, US
[72] LEMBERGER, MICHAEL J., US
[71] CERTAIN TEED GYPSUM, INC., US
[85] 2022-06-23
[86] 2020-12-23 (PCT/US2020/066854)
[87] (WO2021/133912)
[30] US (62/954,105) 2019-12-27

[21] **3,165,864**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 491/107 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **SUBSTITUTED TRICYCLIC COMPOUNDS**
[54] **COMPOSES TRICYCLIQUES SUBSTITUES**
[72] KURHADE, SANJAY PRALHAD, IN
[72] NAIR, PRATHAP SREEDHARAN, IN
[72] SETHI, SACHIN, IN
[72] SHUKLA, MANOJKUMAR RAMPRASAD, IN
[72] SINDKHEDKAR, MILIND DATTATRAYA, IN
[72] PALLE, VENKATA P., IN
[72] KAMBOJ, RAJENDER KUMAR, IN
[72] PHUKAN, SAMIRON, IN
[72] PATIL, PRADEEP RANGRAO, IN
[72] MAJID, SAYYED, IN
[72] PHADATARE, RAMESH, IN
[72] WALKE, NAVNATH, IN
[72] PACHPUTE, VIPUL, IN
[72] GORE, BALASAHEB, IN
[72] TAMBE, VIKAS, IN
[72] LIMAYE, ROHAN, IN
[72] BHOSALE, AVADHUT, IN
[72] MAHANGARE, SACHIN, IN
[71] LUPIN LIMITED, IN
[85] 2022-06-23
[86] 2020-12-27 (PCT/IB2020/062462)
[87] (WO2021/130731)
[30] IN (201921054254) 2019-12-27
[30] IN (201921049099) 2019-12-29
[30] IN (202021022668) 2020-05-29
[30] IN (202021032769) 2020-07-30
[30] IN (202021035200) 2020-08-14

[21] **3,165,865**
[13] A1
[51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6862 (2018.01)**
[25] EN
[54] **KITS AND DEVICES**
[54] **PROCEDES ET DISPOSITIFS**
[72] FRAYLING, CAMERON ALEXANDER, GB
[72] STOLAREK-JANUSZKIEWICZ, MAGDALENA, GB
[72] BALMFORTH, BARNABY WILLIAM, GB
[71] BIOFIDELITY LTD, GB
[85] 2022-06-23
[86] 2020-12-23 (PCT/GB2020/053362)
[87] (WO2021/130495)
[30] GB (1919186.5) 2019-12-23
[30] GB (1919187.3) 2019-12-23

[21] **3,165,866**
[13] A1
[51] **Int.Cl. B23K 31/12 (2006.01) B23K 26/03 (2006.01)**
[25] EN
[54] **METHOD OF MONITORING THE QUALITY OF A WELD BEAD, RELATED WELDING STATION AND COMPUTER-PROGRAM PRODUCT**
[54] **PROCEDE DE SURVEILLANCE DE LA QUALITE D'UN CORDON DE SOUDURE, POSTE DE SOUDAGE ET PRODUIT DE PROGRAMME INFORMATIQUE ASSOCIES**
[72] DI STEFANO, GIOVANNI, IT
[72] LONGO, NICOLA, IT
[71] COMAU S.P.A., IT
[85] 2022-06-23
[86] 2020-01-27 (PCT/IB2020/050602)
[87] (WO2021/152344)

[21] **3,165,867**
[13] A1
[51] **Int.Cl. B65D 81/05 (2006.01) B31D 5/00 (2017.01)**
[25] EN
[54] **TENSION-ACTIVATED, EXPANDING SHEETS WITH COMPOUND SLITS**
[54] **FEUILLES EXPANSIBLES ACTIVEES PAR TENSION AVEC FENTES COMPOSEES**
[72] CORRIGAN, THOMAS R., US
[72] FLEMING, PATRICK R., US
[72] LANGER-ANDERSON, DELONY L., US
[72] MILLER, LISA M., US
[72] NIRMAL, MANOJ, US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2022-06-23
[86] 2020-12-16 (PCT/IB2020/062061)
[87] (WO2021/130613)
[30] US (62/952,815) 2019-12-23
[30] US (63/058,084) 2020-07-29

[21] **3,165,868**
[13] A1
[51] **Int.Cl. B65D 81/05 (2006.01) B31D 5/00 (2017.01)**
[25] EN
[54] **TENSION-ACTIVATED, EXPANDING SHEETS**
[54] **FEUILLES EXPANSIBLES ACTIVEES PAR TENSION**
[72] CORRIGAN, THOMAS R., US
[72] FLEMING, PATRICK R., US
[72] COSGROVE, DYLAN T., US
[72] LANGER-ANDERSON, DELONY L., US
[72] MILLER, LISA M., US
[72] NIRMAL, MANOJ, US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[85] 2022-06-23
[86] 2020-12-16 (PCT/IB2020/062065)
[87] (WO2021/130616)
[30] US (62/952,778) 2019-12-23
[30] US (63/058,116) 2020-07-29

[21] **3,165,870**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 9/14 (2006.01) A61K 9/72 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **METHODS OF TREATING AN INFLAMMATORY OR OBSTRUCTIVE AIRWAY DISEASE USING ANTI-TSLP ANTIBODY**
[54] **METHODES DE TRAITEMENT D'UNE MALADIE INFLAMMATOIRE OU OBSTRUCTIVE DES VOIES RESPIRATOIRES A L'AIDE D'UN ANTICORPS ANTI-TSLP**
[72] AJMERA, ANKUR, CH
[72] DEDERICHS, JURGEN, CH
[72] GRANT, SARAH SCHMIDT, CH
[72] HENSON, KRISTIN, US
[72] JAIN, MONISH, US
[72] PAGANI, SANDRO, CH
[72] PANG, YINUO, US
[72] ROWLANDS, MARIANNA, US
[71] NOVARTIS AG, CH
[85] 2022-06-23
[86] 2021-01-28 (PCT/IB2021/050651)
[87] (WO2021/152488)
[30] US (62/967,313) 2020-01-29
[30] US (63/031,520) 2020-05-28

[21] **3,165,877**
[13] A1
[51] **Int.Cl. F27B 7/24 (2006.01)**
[25] EN
[54] **DYNAMIC SEALING STRUCTURE AND ROTARY KILN APPARATUS**
[54] **STRUCTURE D'ETANCHEITE DYNAMIQUE ET APPAREIL DE FOUR ROTATIF**
[72] ZHU, SHUCHENG, CN
[72] WANG, XIBIN, CN
[72] LI, FANG, CN
[72] LI, JINFENG, CN
[72] LV, YANWU, CN
[72] REN, YI, CN
[71] HENAN LONGCHENG COAL HIGH EFFICIENCY TECHNOLOGY APPLICATION CO., LTD., CN
[85] 2022-06-23
[86] 2020-05-09 (PCT/CN2020/089471)
[87] (WO2021/147210)
[30] CN (202010068716.0) 2020-01-21

[21] **3,165,880**
[13] A1
[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/44 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR REDUCING INTERFERENCE IN AN OPTICAL SPECTROSCOPY PROBE HAVING A COLLIMATED SAMPLE BEAM**
[54] **APPAREIL ET PROCEDE DE REDUCTION D'INTERFERENCE DANS UNE SONDE DE SPECTROSCOPIE OPTIQUE COMPRENANT UN FAISCEAU ECHANTILLON COLLIMATE**
[72] BEHR, BRADFORD B., US
[71] TORNADO SPECTRAL SYSTEMS INC., CA
[85] 2022-06-23
[86] 2020-12-29 (PCT/CA2020/051804)
[87] (WO2021/134129)
[30] US (62/955,826) 2019-12-31

[21] **3,165,881**
[13] A1
[51] **Int.Cl. B60L 13/06 (2006.01)**
[25] EN
[54] **RAILWAY VEHICLE WITH AERODYNAMIC LIFT CONTROL DEVICE**
[54] **VEHICULE FERROVIAIRE AVEC DISPOSITIF DE CONTROLE DE PORTANCE AERODYNAMIQUE**
[72] DING, SANSAN, CN
[72] YAO, SHUANBAO, CN
[72] CHEN, DAWEI, CN
[72] LIU, SHAOQING, CN
[72] JIANG, FUJIE, CN
[71] CRRC QINGDAO SIFANG CO., LTD., CN
[85] 2022-06-23
[86] 2020-05-18 (PCT/CN2020/090779)
[87] (WO2021/135042)
[30] CN (202010001729.6) 2020-01-02

[21] **3,165,883**
[13] A1
[51] **Int.Cl. H04W 72/04 (2009.01)**
[25] EN
[54] **UPLINK PACKET DUPLICATION TRANSMISSIONS**
[54] **TRANSMISSIONS DE DUPLICATION DE PAQUET DE LIAISON MONTANTE**
[72] LIU, ZHUANG, CN
[72] GAO, YIN, CN
[72] MA, ZIJIANG, CN
[71] ZTE CORPORATION, CN
[85] 2022-06-23
[86] 2020-05-19 (PCT/CN2020/090974)
[87] (WO2021/109472)

[21] **3,165,884**
[13] A1
[51] **Int.Cl. A61B 34/30 (2016.01) A61B 17/28 (2006.01)**
[25] EN
[54] **SURGICAL EFFECTOR, SURGICAL TOOL AND SURGICAL ROBOT**
[54] **EFFECTEUR CHIRURGICAL, OUTIL CHIRURGICAL ET ROBOT CHIRURGICAL**
[72] XU, KAI, CN
[72] REN, YITANG, CN
[71] BEIJING SURGERII TECHNOLOGY CO., LTD, CN
[85] 2022-06-23
[86] 2020-12-21 (PCT/CN2020/138011)
[87] (WO2021/136004)
[30] CN (201911393792.2) 2019-12-30
[30] CN (201911392107.4) 2019-12-30
[30] CN (201911392141.1) 2019-12-30
[30] CN (201911391781.0) 2019-12-30
[30] CN (201911391778.9) 2019-12-30

[21] **3,165,887**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 27/02 (2006.01) A61P 35/00 (2006.01) C07K 14/71 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **USE OF FUSION PROTEIN IN TREATMENT OF AGE-RELATED MACULAR DEGENERATION**
[54] **APPLICATION DE PROTEINE DE FUSION DANS LE TRAITEMENT DE LA DEGENERESCENCE MACULAIRE LIEE A L'AGE**
[72] LU, SHUJIE, CN
[72] QIAN, LEI, CN
[71] INNOVENT BIOLOGICS (SUZHOU) CO., LTD., CN
[85] 2022-06-23
[86] 2020-12-23 (PCT/CN2020/138598)
[87] (WO2021/129658)
[30] CN (201911346311.2) 2019-12-24
[30] CN (202011441025.7) 2020-12-11

[21] **3,165,889**
[13] A1
[51] **Int.Cl. A61K 31/501 (2006.01) A61K 31/5377 (2006.01) A61K 31/5386 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07D 417/14 (2006.01) C07D 471/10 (2006.01) C07D 498/10 (2006.01)**
[25] EN
[54] **PYRIDAZINYL-THIAZOLECARBOXAMIDE COMPOUND**
[54] **COMPOSE PYRIDAZINYL THIAZOLECARBOXAMIDE**
[72] WATANABE, HIDEYUKI, JP
[72] SEKI, YOHEI, JP
[72] OKUYAMA, KEIICHIRO, JP
[72] KUROSAWA, KAZUO, JP
[72] IKEDA, OSAMU, JP
[72] TOMIYAMA, HIROSHI, JP
[72] IWAI, YOSHINORI, JP
[72] NAKAMURA, AKIHIKO, JP
[72] MIYASAKA, KOZO, JP
[71] ASTELLAS PHARMA INC., JP
[71] KOTOBUKI PHARMACEUTICAL CO., LTD., JP
[85] 2022-06-23
[86] 2020-12-24 (PCT/JP2020/048337)
[87] (WO2021/132422)
[30] JP (2019-233673) 2019-12-25

[21] **3,165,891**
[13] A1
[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 31/343 (2006.01) A61K 31/416 (2006.01) A61K 31/423 (2006.01) A61K 45/00 (2006.01) A61P 13/08 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **PROPHYLACTIC AND/OR THERAPEUTIC AGENT FOR CHRONIC PROSTATITIS/CHRONIC PELVIC PAIN SYNDROME**
[54] **AGENT PROPHYLACTIQUE ET/OU THERAPEUTIQUE POUR LE SYNDROME DE LA DOULEUR PELVIENNE CHRONIQUE/PROSTATIQUE CHRONIQUE**
[72] OKAMOTO, KEN, JP
[72] KURITA, MAKI, JP
[72] YAMAGUCHI, HIROSHI, JP
[71] NIPPON SHINYAKU CO., LTD., JP
[85] 2022-06-23
[86] 2020-12-24 (PCT/JP2020/048479)
[87] (WO2021/132472)
[30] JP (2019-233865) 2019-12-25

[21] **3,165,893**
[13] A1
[51] **Int.Cl. A61K 31/4184 (2006.01) A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **ANTITUMOR DRUG FOR USE IN COMBINATION WITH IMMUNE CHECKPOINT INHIBITOR**
[54] **MEDICAMENT ANTITUMORAL POUR L'UTILISATION EN COMBINAISON AVEC UN INHIBITEUR DE POINT DE CONTROLE IMMUNITAIRE**
[72] KOSUGI, KEIJI, JP
[72] MINAMI, TOSHIYUKI, JP
[72] IWASAKI, SHIHO, JP
[72] YAMAMOTO, ITARU, JP
[71] NIPPON SHINYAKU CO., LTD., JP
[85] 2022-06-23
[86] 2020-12-24 (PCT/JP2020/048480)
[87] (WO2021/132473)
[30] JP (2019-233866) 2019-12-25

[21] **3,165,895**
[13] A1
[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/44 (2006.01)**
[25] EN
[54] **MECHANICAL MOUNT FOR REMOVABLE FRONT-END OPTICS ON AN OPTICAL SPECTROSCOPY PROBE**
[54] **MONTURE MECANIQUE POUR OPTIQUES FRONTALES AMOVIBLES SUR UNE SONDE DE SPECTROSCOPIE OPTIQUE**
[72] BEHR, BRADFORD B., US
[71] TORNADO SPECTRAL SYSTEMS INC., CA
[85] 2022-06-24
[86] 2020-12-23 (PCT/CA2020/051797)
[87] (WO2021/134128)
[30] US (62/956,740) 2020-01-03

[21] **3,165,896**
[13] A1
[51] **Int.Cl. B61C 15/08 (2006.01) B05B 1/02 (2006.01) B61C 15/10 (2006.01)**
[25] EN
[54] **SPRAYING APPARATUS FOR APPLYING FRICTION MODIFYING MATERIAL TO RAILROAD RAIL**
[54] **APPAREIL DE PULVERISATION PERMETTANT D'APPLIQUER UN MATERIAU DE MODIFICATION DE FROTTEMENT SUR UN RAIL DE CHEMIN DE FER**
[72] MITCHELL, DAVEY, CA
[72] ELVIDGE, DAVID, CA
[72] LOO, DARREN, CA
[72] MCKAY, DOUG, CA
[72] VANDERMAREL, JOEL, CA
[72] DAVIS, NIGEL, CA
[72] LUK, SZE KEI, CA
[71] L. B. FOSTER COMPANY, US
[85] 2022-06-23
[86] 2020-12-23 (PCT/US2020/066914)
[87] (WO2021/133955)
[30] US (62/952,951) 2019-12-23

[21] **3,165,899**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01) G16H 10/00 (2018.01) G16H 50/20 (2018.01) A61B 5/00 (2006.01) A61B 5/1468 (2006.01) A61B 5/155 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR SEPSIS RISK EVALUATION**
[54] **SYSTEMES ET PROCEDES D'EVALUATION DE RISQUE DE SEPTICEMIE**
[72] HEADEN, DEVON M., US
[72] SIMPSON, PETER C., US
[72] JOHNSON, MATTHEW LAWRENCE, US
[71] DEXCOM, INC., US
[85] 2022-06-23
[86] 2020-12-23 (PCT/US2020/066917)
[87] (WO2021/133958)
[30] US (62/953,807) 2019-12-26
[30] US (62/956,044) 2019-12-31

[21] **3,165,900**
[13] A1
[51] **Int.Cl. A61B 90/50 (2016.01) A61B 34/00 (2016.01) A61B 34/20 (2016.01) A61B 90/11 (2016.01) A61B 1/313 (2006.01)**
[25] EN
[54] **LAPAROSCOPIC SURGERY SYSTEM CALIBRATOR AND METHOD FOR USING THE SAME**
[54] **CALIBREUR DE SYSTEME DE CHIRURGIE LAPAROSCOPIQUE ET SON PROCEDE D'UTILISATION**
[72] NOKOVIC, BOJAN, CA
[72] NEDIALKOV, NED, CA
[72] WILSON, MITCHELL THOMAS, CA
[71] MARINER ENDOSURGERY INC., CA
[85] 2022-06-24
[86] 2020-12-31 (PCT/CA2020/051810)
[87] (WO2021/134132)
[30] US (62/955,572) 2019-12-31

[21] **3,165,903**
[13] A1
[51] **Int.Cl. A61K 31/135 (2006.01) A61P 25/24 (2006.01) C07C 211/35 (2006.01) C07C 225/20 (2006.01) C07D 207/00 (2006.01)**
[25] EN
[54] **ARYLCYCLOHEXYLAMINE DERIVATIVES AND THEIR USE IN THE TREATMENT OF PSYCHIATRIC DISORDERS**
[54] **DERIVES ARYLCYCLOHEXYLAMINE ET LEUR UTILISATION DANS LE TRAITEMENT DE TROUBLES PSYCHIATRIQUES**
[72] KRUEGEL, ANDREW CARRY, US
[72] SAMES, DALIBOR, US
[72] HASHIMOTO, KENJI, JP
[71] GILGAMESH PHARMACEUTICALS, INC., US
[71] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[85] 2022-06-23
[86] 2020-12-28 (PCT/US2020/067235)
[87] (WO2021/134086)
[30] US (62/953,611) 2019-12-26
[30] US (63/037,044) 2020-06-10
[30] US (63/093,830) 2020-10-20

[21] **3,165,907**
[13] A1
[51] **Int.Cl. C08G 18/18 (2006.01) C08G 18/42 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08J 9/00 (2006.01) C08J 9/14 (2006.01) C08L 75/04 (2006.01) E04B 1/76 (2006.01) E04F 21/06 (2006.01) E04G 21/00 (2006.01) E04G 23/02 (2006.01)**
[25] EN
[54] **EXPANDING POLYURETHANE FOAM AND METHODS AND SYSTEMS FOR USING SAME**
[54] **MOUSSE DE POLYURETHANE EXPANSIBLE ET PROCEDES ET SYSTEMES POUR L'UTILISER**
[72] ORF, NICHOLAS D., US
[72] LAI, CHOUNG-HOUNG, US
[72] YOU, SIZHU, US
[71] CERTAINTEED LLC, US
[85] 2022-06-23
[86] 2020-12-29 (PCT/US2020/067362)
[87] (WO2021/138359)
[30] US (62/955,024) 2019-12-30

[21] **3,165,908**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/005 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING AUTOIMMUNE DISEASES AND CANCERS BY TARGETING IGSF8**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE MALADIES AUTO-IMMUNES ET DE CANCERS PAR CIBLAGE D'IGSF8**
[72] LIU, XIAOLE, US
[72] HU, XIHAO, US
[72] XIAO, TENGFEI, CN
[71] SHANGHAI XBH BIOTECHNOLOGY CO., LTD., CN
[71] GV20 THERAPEUTICS LLC, US
[85] 2022-06-24
[86] 2020-12-24 (PCT/CN2020/139033)
[87] (WO2021/129744)
[30] CN (PCT/CN2019/128294) 2019-12-25

[21] **3,165,911**
[13] A1
[51] **Int.Cl. C07K 14/14 (2006.01) C12N 15/86 (2006.01) G01N 30/72 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS FOR ANALYZING AAV CAPSID PROTEINS**
[54] **PROCEDES D'ANALYSE DE PROTEINES DE CAPSIDE VAA**
[72] DAUD, KUNAL, US
[72] LI, JU, US
[72] DEALWIS, UDITHA, US
[71] SAREPTA THERAPEUTICS, INC., US
[85] 2022-06-23
[86] 2020-12-30 (PCT/US2020/067395)
[87] (WO2021/138381)
[30] US (62/956,681) 2020-01-03
[30] US (63/073,188) 2020-09-01
[30] US (63/119,909) 2020-12-01

[21] **3,165,912**
[13] A1
[51] **Int.Cl. B65D 41/32 (2006.01) B65D 41/34 (2006.01) B65D 47/08 (2006.01) B65D 51/24 (2006.01) B65D 55/16 (2006.01)**
[25] EN
[54] **PACKAGE WITH TETHERED CLOSURE**
[54] **EMBALLAGE A FERMETURE ATTACHEE**
[72] MIGAS, JEREMIAH, US
[72] MORIN, JEREMY, US
[71] CLOSURE SYSTEMS INTERNATIONAL INC., US
[85] 2022-06-23
[86] 2021-01-05 (PCT/US2021/012210)
[87] (WO2021/146080)
[30] US (62/958,842) 2020-01-16
[30] US (62/985,608) 2020-03-05
[30] US (17/116,564) 2020-12-09

[21] **3,165,916**
[13] A1
[51] **Int.Cl. A61B 5/01 (2006.01) G01K 13/20 (2021.01) G01K 1/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR MONITORING PERIPHERAL DIABETIC NEUROPATHY AND/OR PERIPHERAL ARTERIAL DISEASE**
[54] **APPAREIL ET PROCEDE DE SURVEILLANCE DE NEUROPATHIE DIABETIQUE PERIPHERIQUE ET/OU DE MALADIE ARTERIELLE PERIPHERIQUE**
[72] PETERSON, BRIAN, US
[72] WOOD, KATHERINE, US
[72] LINDERS, DAVID, US
[72] ZHOU, MIN, US
[71] PODIMETRICS, INC., US
[85] 2022-06-23
[86] 2021-01-08 (PCT/US2021/012698)
[87] (WO2021/142259)
[30] US (62/958,858) 2020-01-09

[21] **3,165,917**
[13] A1
[51] **Int.Cl. C04B 38/02 (2006.01) C04B 35/622 (2006.01) C04B 35/80 (2006.01)**
[25] EN
[54] **CERAMIC FOAM-FIBER COMPOSITES, METHODS OF MAKING SAME, AND USES THEREOF**
[54] **COMPOSITES DE MOUSSE CERAMIQUE-FIBRE, LEURS PROCEDES DE FABRICATION ET LEURS UTILISATIONS**
[72] REN, SHENQIANG, US
[72] AN, LU, US
[71] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US
[85] 2022-06-23
[86] 2021-01-11 (PCT/US2021/012998)
[87] (WO2021/142464)
[30] US (62/959,907) 2020-01-11

[21] **3,165,920**
[13] A1
[51] **Int.Cl. H04R 1/10 (2006.01) H04R 1/00 (2006.01)**
[25] EN
[54] **BONE CONDUCTION EARPHONES**
[54] **ECOUTEUR A CONDUCTION OSSEUSE**
[72] WANG, ZHEN, CN
[72] LIU, ZHIQING, CN
[72] WANG, YONGGEN, CN
[72] MAO, XINNAN, CN
[71] SHENZHEN SHOKZ CO., LTD., CN
[85] 2022-06-24
[86] 2021-04-29 (PCT/CN2021/090958)
[87] (WO2021/219076)
[30] CN (202020720127.1) 2020-04-30
[30] CN (202020720129.0) 2020-04-30
[30] CN (202010367107.5) 2020-04-30

[21] **3,165,922**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 27/02 (2006.01) C07K 14/47 (2006.01) C12N 15/11 (2006.01) C12N 15/85 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **GENE THERAPY FOR TREATMENT OF CRX-AUTOSOMAL DOMINANT RETINOPATHIES**
[54] **THERAPIE GENIQUE POUR LE TRAITEMENT DE RETINOPATHIES DOMINANTES AUTOSOMIQUES LIEES AU CRX**
[72] SWAROOP, ANAND, US
[72] WU, ZHIJIAN, US
[72] HIRIYANNA, SUJA D., US
[72] KRUCZEK, KAMIL, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2022-06-23
[86] 2021-01-15 (PCT/US2021/013733)
[87] (WO2021/146625)
[30] US (62/962,732) 2020-01-17

[21] **3,165,927**
[13] A1
[51] **Int.Cl. C07K 19/00 (2006.01) C07K 14/52 (2006.01) C07K 14/54 (2006.01) C07K 14/55 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C12N 15/62 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **NOVEL MASKED CYTOKINES AND METHODS OF USE THEREOF**
[54] **NOUVELLES CYTOKINES MASQUEES ET LEURS PROCEDES D'UTILISATION**
[72] LU, YUEFENG, US
[72] YU, CHUNXIAO, US
[72] LU, JIAN-FENG, US
[72] LIU, LIQIN, US
[71] ASKGENE PHARMA, INC., US
[85] 2022-06-23
[86] 2021-01-11 (PCT/US2021/013007)
[87] (WO2021/142471)
[30] US (63/126,393) 2020-12-16
[30] US (62/959,973) 2020-01-11
[30] US (63/027,138) 2020-05-19
[30] US (63/029,473) 2020-05-23

[21] **3,165,928**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 35/00 (2006.01) A61P 37/04 (2006.01) C12N 15/12 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ALTERING GAMMA DELTA T CELL ACTIVITY**
[54] **COMPOSITIONS ET METHODES POUR MODIFIER L'ACTIVITE DE LYMPHOCYTES T GAMMA DELTA**
[72] MAMEDOV, MURAD R., US
[72] MARSON, ALEXANDER, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2022-06-23
[86] 2021-01-15 (PCT/US2021/013736)
[87] (WO2021/146628)
[30] US (62/961,563) 2020-01-15

[21] **3,165,931**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2012.01) G06V 40/18 (2022.01) A61B 3/113 (2006.01)**
[25] EN
[54] **BUSINESS MANAGEMENT SYSTEM, BUSINESS MANAGEMENT METHOD, AND BUSINESS MANAGEMENT PROGRAM**
[54] **SYSTEME DE GESTION D'ENTREPRISE, PROCEDE DE GESTION D'ENTREPRISE ET PROGRAMME DE GESTION D'ENTREPRISE**
[72] IIZUKA, YUSUKE, JP
[71] NEC PLATFORMS, LTD., JP
[85] 2022-06-24
[86] 2020-11-25 (PCT/JP2020/043793)
[87] (WO2021/131465)
[30] JP (2019-234345) 2019-12-25

[21] **3,165,932**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/1455 (2006.01) A61B 5/1486 (2006.01) A61M 5/172 (2006.01)**
[25] EN
[54] **DECISION SUPPORT AND TREATMENT ADMINISTRATION SYSTEMS**
[54] **SYSTEMES D'ADMINISTRATION DE TRAITEMENT ET D'AIDE A LA DECISION**
[72] SPANG, KATHRYN YANLI, US
[72] KIMEL, JANNA CARYN, US
[72] SOKOLASH, SONYA ANN, US
[72] KANTER, DOUGLAS SCOTT, US
[71] DEXCOM, INC., US
[85] 2022-06-23
[86] 2021-01-21 (PCT/US2021/014305)
[87] (WO2021/162837)
[30] US (62/976,778) 2020-02-14
[30] US (63/011,175) 2020-04-16

[21] **3,165,934**
[13] A1
[51] **Int.Cl. C09K 9/02 (2006.01) C08K 5/1545 (2006.01) C08K 5/357 (2006.01) C08L 61/28 (2006.01) C08L 75/04 (2006.01)**
[25] EN
[54] **CURABLE PHOTOCHROMIC COMPOSITION INCLUDING A SEGMENTED POLYMER**
[54] **COMPOSITION PHOTOCHROMIQUE DURCISSABLE COMPRENANT UN POLYMERE SEGMENTE**
[72] ROBINSON, STEPHEN G., US
[72] TAYLOR, CATHY A., US
[71] TRANSITIONS OPTICAL, LTD., IE
[85] 2022-06-24
[86] 2019-12-27 (PCT/EP2019/087070)
[87] (WO2021/129941)

[21] **3,165,937**
[13] A1
[51] **Int.Cl. A23D 7/00 (2006.01) A23D 9/04 (2006.01) C11C 3/02 (2006.01) C11C 3/06 (2006.01) C11C 3/10 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING A RANDOMLY INTERESTERIFIED FAT PRODUCT**
[54] **PROCEDE DE PREPARATION D'UN PRODUIT DU TYPE MATIERE GRASSE A INTERESTERIFICATION ALEATOIRE**
[72] MA, JUN, NL
[71] BUNGE LODERS CROKLAAN B.V., NL
[85] 2022-06-24
[86] 2021-01-06 (PCT/EP2021/050106)
[87] (WO2021/140109)
[30] EP (20150614.4) 2020-01-07

[21] **3,165,942**
[13] A1
[51] **Int.Cl. C10L 1/14 (2006.01) C10L 1/188 (2006.01) C10L 1/19 (2006.01) C10L 1/196 (2006.01) C10L 1/197 (2006.01) C10L 1/198 (2006.01) C10L 10/14 (2006.01) C10L 1/222 (2006.01) C10L 1/224 (2006.01) C10L 1/236 (2006.01) C10L 1/238 (2006.01) C10L 1/2383 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS OF DISPERING PARAFFINS IN LOW-SULFUR FUEL OILS**
[54] **COMPOSITIONS ET PROCEDES DE DISPERSION DE PARAFFINES DANS DES HUILES COMBUSTIBLES A FAIBLE TENEUR EN SOUFRE**
[72] KRULL, MATTHIAS, DE
[72] MULLER, KERSTIN, DE
[72] HACKLANDER, SIMONE, DE
[72] HUBERT, OLIVER, DE
[72] BURMISTROV, SERGEY, RU
[72] ABRAMOVA, LYDMILA, RU
[72] UTKIN, ALEXANDER, RU
[71] CLARIANT INTERNATIONAL LTD, CH
[85] 2022-06-24
[86] 2021-01-15 (PCT/EP2021/050783)
[87] (WO2021/190793)
[30] EP (20165086.8) 2020-03-24

[21] **3,165,945**
[13] A1
[51] **Int.Cl. H01L 31/041 (2014.01) H01L 31/0216 (2014.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A SOLAR CELL WITH INTEGRAL COVERGLASS, AND CELL OBTAINED**
[54] **PROCEDE DE FABRICATION D'UNE CELLULE SOLAIRE DOTEE D'UNE FENETRE DE PROTECTION INTEGREE, ET CELLULE OBTENUE**
[72] GRECO, ERMINIO, IT
[72] CASALE, MARIACRISTINA, IT
[72] CAMPESATO, ROBERTA, IT
[71] CESI - CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO GIACINTO MOTTA S.P.A., IT
[85] 2022-06-24
[86] 2021-01-15 (PCT/EP2021/050818)
[87] (WO2021/148323)
[30] IT (102020000001051) 2020-01-21

[21] **3,165,947**
[13] A1
[51] **Int.Cl. A23L 33/00 (2016.01) A61K 9/00 (2006.01) A61K 31/185 (2006.01) A61K 31/198 (2006.01) A61K 31/375 (2006.01) A61K 31/4415 (2006.01) A61K 31/455 (2006.01) A61K 31/51 (2006.01) A61K 31/519 (2006.01) A61K 31/525 (2006.01) A61K 33/04 (2006.01) A61K 33/06 (2006.01) A61K 33/30 (2006.01) A61K 38/39 (2006.01)**
[25] EN
[54] **SLEEP DIETARY SUPPLEMENT**
[54] **COMPLEMENT ALIMENTAIRE POUR LE SOMMEIL**
[72] SEIDENSTICKER, KURT, US
[72] FRIESE, COREY, US
[72] COTE, KATIE, US
[72] CUTRI, CRISTINA, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-06-24
[86] 2021-02-05 (PCT/EP2021/052730)
[87] (WO2021/156400)
[30] US (62/971,481) 2020-02-07

[21] **3,165,948**
[13] A1
[51] **Int.Cl. A23L 2/42 (2006.01) A23L 2/52 (2006.01) C12G 3/04 (2019.01) C12G 3/06 (2006.01)**
[25] EN
[54] **BEVERAGE CONTAINING DISPERSED PLANT OIL**
[54] **BOISSON CONTENANT UNE HUILE VEGETALE DISPERSEE**
[72] TAMAOKA, KUNIYASU, JP
[72] YOSHIHIRO, AKIRA, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2022-06-24
[86] 2020-12-02 (PCT/JP2020/044828)
[87] (WO2021/131551)
[30] JP (2019-239584) 2019-12-27

[21] **3,165,949**
[13] A1
[51] **Int.Cl. G06T 11/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD OF PRODUCING A TOMOGRAM**
[54] **APPAREIL ET PROCEDE DE PRODUCTION D'UN TOMOGRAMME**
[72] TRAVISH, GIL, GB
[72] WELLS, STEVE, GB
[72] MITCHELL, IAN, GB
[72] HOLDEN, MARTIN, GB
[71] ADAPTIX LTD, GB
[85] 2022-06-24
[86] 2020-12-10 (PCT/GB2020/053170)
[87] (WO2021/140309)
[30] GB (2000238.2) 2020-01-08

[21] **3,165,950**
[13] A1
[51] **Int.Cl. C12N 5/079 (2010.01) C07K 16/28 (2006.01) C12N 15/10 (2006.01) C12Q 1/68 (2018.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR COLLECTING EXTRACELLULAR VESICLES DERIVED FROM NERVOUS SYSTEM CELLS**
[54] **PROCEDE DE COLLECTE DE VESICULES EXTRACELLULAIRES ISSUES DE CELLULES DU SYSTEME NERVEUX**
[72] KUDO, TAKASHI, JP
[72] YANAGIDA, KANTA, JP
[72] AKAMINE, SHOSHIN, JP
[71] OSAKA UNIVERSITY, JP
[85] 2022-06-24
[86] 2020-12-23 (PCT/JP2020/048209)
[87] (WO2021/132352)
[30] JP (2019-239839) 2019-12-27

[21] **3,165,951**
[13] A1
[51] **Int.Cl. G01N 23/044 (2018.01) G01N 23/046 (2018.01) B22F 10/00 (2021.01) B29C 70/68 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **A METHOD OF PRODUCING 3D TOMOSYNTHESIS IMAGES OF A COMPOSITE MATERIAL**
[54] **PROCEDE DE PRODUCTION D'IMAGES DE TOMOSYNTHESE 3D D'UN MATERIAU COMPOSITE**
[72] TRAVISH, GIL, GB
[72] EVANS, MARK, GB
[71] ADAPTIX LTD., GB
[85] 2022-06-24
[86] 2020-12-16 (PCT/GB2020/053246)
[87] (WO2021/140312)
[30] GB (2000156.6) 2020-01-07

[21] **3,165,952**
[13] A1
[51] **Int.Cl. B01D 29/11 (2006.01) A61M 1/00 (2006.01) A61M 27/00 (2006.01) B01D 35/143 (2006.01)**
[25] EN
[54] **LOW PROFILE FILTER DEVICES SUITABLE FOR USE IN NEGATIVE PRESSURE WOUND THERAPY SYSTEMS**
[54] **DISPOSITIFS DE FILTRE A PROFIL BAS ADAPTES POUR ETRE UTILISES DANS UN SYSTEME DE THERAPIE DES PLAIES PAR PRESSION NEGATIVE**
[72] PENAGONDIA, MANJUNATH, GB
[72] WOOD, COLIN, GB
[71] CONVATEC LIMITED, GB
[85] 2022-06-24
[86] 2020-12-21 (PCT/GB2020/053317)
[87] (WO2021/130474)
[30] US (16/728,417) 2019-12-27

[21] **3,165,956**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) A61P 43/00 (2006.01) C07H 21/02 (2006.01) C12N 15/10 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **POLYNUCLEOTIDE AND PHARMACEUTICAL COMPOSITION**
[54] **POLYNUCLEOTIDE ET COMPOSITION MEDICINALE**
[72] ABE, HIROSHI, JP
[72] IWAI, HIROTO, JP
[72] HOMMA, MASAKAZU, JP
[72] ASANO, KANA, JP
[72] HARADA, KENJI, JP
[72] YAMAMOTO, JUNICHIRO, JP
[72] SHINOHARA, FUMIKAZU, JP
[72] MOTOSAWA, KEIICHI, JP
[72] KIMURA, YASUAKI, JP
[72] NAKAMOTO, KOSUKE, JP
[71] NATIONAL UNIVERSITY CORPORATION TOKAI NATIONAL HIGHER EDUCATION AND RESEARCH SYSTEM, JP
[71] KYOWA KIRIN CO., LTD., JP
[85] 2022-06-24
[86] 2020-12-25 (PCT/JP2020/048799)
[87] (WO2021/132589)
[30] JP (2019-236399) 2019-12-26

[21] **3,165,961**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7088 (2006.01) A61P 21/04 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **ANTISENSE NUCLEIC ACID THAT INDUCES SKIPPING OF EXON 50**
[54] **ACIDE NUCLEIQUE ANTISENS QUI INDUIT LE SAUT DE L'EXON 50**
[72] ENYA, YUKIKO, JP
[72] SUNADOI, YUTA, JP
[72] WAKI, REIKO, JP
[72] MUCHIMA, KANAME, JP
[72] TAKEDA, SHIN'ICHI, JP
[72] AOKI, YOSHITSUGU, JP
[71] NIPPON SHINYAKU CO., LTD., JP
[71] NATIONAL CENTER OF NEUROLOGY AND PSYCHIATRY, JP
[85] 2022-06-24
[86] 2020-12-25 (PCT/JP2020/048803)
[87] (WO2021/132591)
[30] JP (2019-236704) 2019-12-26

[21] **3,165,965**
[13] A1
[51] **Int.Cl. A61K 36/328 (2006.01) A61K 33/06 (2006.01) A61K 36/185 (2006.01) A61P 17/02 (2006.01)**
[25] EN
[54] **UNIQUE HERBAL COMBINATION FOR THE TREATMENT OF ANAL FISSURES AND WOUNDS IN PHARMACEUTICAL DOSAGE FORM**
[54] **COMBINAISON UNIQUE DE PLANTES LE TRAITEMENT DE FISSURES ET DE PLAIES ANALES SOUS UNE FORME POSOLOGIQUE PHARMACEUTIQUE**
[72] ALANAZI, FARS KAED M, SA
[71] SAUDI PHARMACEUTICAL INDUSTRIES & MEDICAL APPLIANCES CORPORATION SPIMACO ADDWAEIH, SA
[85] 2022-06-24
[86] 2020-12-28 (PCT/SA2020/050019)
[87] (WO2021/137743)
[30] GC (GC 2020-38941) 2020-01-01

[21] **3,166,009**
[13] A1
[51] **Int.Cl. A61K 38/20 (2006.01)**
[25] EN
[54] **IL2 MUTEINS**
[54] **MUTEINES D'IL2**
[72] EMMERICH, JAN, US
[72] KAUDER, STEVE, US
[72] MCCAULEY, SCOTT ALAN, US
[71] SYNTHEKINE, INC., US
[85] 2022-06-24
[86] 2021-01-14 (PCT/US2021/013514)
[87] (WO2021/146481)
[30] US (62/960,847) 2020-01-14

[21] **3,166,010**
[13] A1
[51] **Int.Cl. C08F 4/24 (2006.01) C08F 4/02 (2006.01) C08F 10/00 (2006.01)**
[25] EN
[54] **METHODS OF PREPARING A CATALYST UTILIZING HYDRATED REAGENTS**
[54] **PROCEDES DE PREPARATION D'UN CATALYSEUR FAISANT INTERVENIR DES REACTIFS HYDRATES**
[72] MCDANIEL, MAX P., US
[72] CLEAR, KATHY S., US
[72] PRAETORIUS, JEREMY M., US
[72] SCHWERDTFEGER, ERIC D., US
[72] REFVIK, MITCHELL D., US
[72] HLAVINKA, MARK L., US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2022-06-24
[86] 2021-01-26 (PCT/US2021/014995)
[87] (WO2021/154676)
[30] US (16/774,891) 2020-01-28

[21] **3,166,011**
[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 31/00 (2006.01) A61K 31/05 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE CANNABINOID FORMULATIONS AND METHODS OF THEIR MAKING**
[54] **FORMULATIONS DE CANNABINOIDES SOLUBLES DANS L'EAU ET LEURS PROCEDES DE FABRICATION**
[72] ZYGMUNT, JAN, US
[72] BLAKELEY, THOMAS, US
[71] SOLUSCIENCE, LLC, US
[85] 2022-06-24
[86] 2020-12-31 (PCT/US2020/067726)
[87] (WO2021/138597)
[30] US (62/956,103) 2019-12-31

[21] **3,166,012**
[13] A1
[51] **Int.Cl. A61K 8/65 (2006.01) A61K 8/73 (2006.01) A61L 27/52 (2006.01) A61Q 19/08 (2006.01) C08L 5/08 (2006.01) C08L 89/06 (2006.01)**
[25] EN
[54] **PHYSICAL MIX HA-COLLAGEN DERMAL FILLERS**
[54] **CHARGES DERMIQUES A BASE DE MELANGE PHYSIQUE DE COLLAGENE-AH**
[72] STREHIN, IOSSIF, US
[72] YU, XIAOJIE, US
[72] MESSINA, DARIN J., US
[72] MORELL, JULIE, FR
[72] DURIEUX, FLORENT, FR
[72] ROCA MARTINEZ, JEAN-XAVIER, FR
[71] ALLERGAN, INC., US
[85] 2022-06-24
[86] 2020-12-28 (PCT/US2020/067232)
[87] (WO2021/134084)
[30] US (62/953,925) 2019-12-26

[21] **3,166,013**
[13] A1
[51] **Int.Cl. A61K 38/39 (2006.01) A61P 35/00 (2006.01) C07K 14/78 (2006.01)**
[25] EN
[54] **SCAFFOLD PROTEINS AND THERAPEUTIC NANOCONJUGATES BASED ON NIDOGEN**
[54] **PROTEINES D'ECHAFAUDAGE ET NANOCONJUGUES THERAPEUTIQUES A BASE DE NIDOGENE**
[72] VAZQUEZ GOMEZ, ESTHER, ES
[72] VILLAVERDE CORRALES, ANTONIO, ES
[72] SERNA ROMERO, NAROA, ES
[72] CEDANO RODRIGUEZ, JUAN, ES
[72] CANO GARRIDO, OLIVIA, ES
[72] UNZUETA ELORZA, UGUTZ, ES
[72] MANGUES BAFALLUY, RAMON, ES
[72] ALAMO VARGAS, PATRICIA VIRGINIA, ES
[72] PARLADE MOLIST, ELOI, ES
[71] UNIVERSITAT AUTONOMA DE BARCELONA, ES
[71] NANOLIGENT, S.L., ES
[71] CONSORCIO CENTRO DE INVESTIGACION BIOMEDICA EN RED, ES
[71] FUNDACIO INSTITUT DE RECERCA DE L'HOSPITAL DE LA SANTA CREU I SANT PAU, ES
[85] 2022-06-24
[86] 2021-01-11 (PCT/EP2021/050409)
[87] (WO2021/130390)

[21] **3,166,014**
[13] A1
[51] **Int.Cl. A61B 17/34 (2006.01) A61B 17/02 (2006.01) A61M 39/02 (2006.01) A61M 39/06 (2006.01)**
[25] EN
[54] **APPARATUS FOR PROVIDING INSTRUMENT ACCESS THROUGH A SURGICAL ACCESS DEVICE**
[54] **APPAREIL POUR FOURNIR UN ACCES A UN INSTRUMENT PAR L'INTERMEDIAIRE D'UN DISPOSITIF D'ACCES CHIRURGICAL**
[72] FRANCISCO, MATTHEW M., US
[72] BUCKNAM, LAURA E., US
[71] TITAN MEDICAL INC., CA
[85] 2022-06-15
[86] 2020-12-23 (PCT/CA2020/051793)
[87] (WO2021/168535)
[30] US (16/800,710) 2020-02-25

[21] **3,166,019**
[13] A1
[51] **Int.Cl. H01R 12/61 (2011.01) H01R 13/502 (2006.01) H01R 13/504 (2006.01)**
[25] EN
[54] **ELECTRICAL CONNECTOR FOR ATTACHMENT TO TEXTILE**
[54] **CONNECTEUR ELECTRIQUE DESTINE A ETRE FIXE SUR UN TEXTILE**
[72] STRAKA, ADRIAN, CA
[72] ZHENG, MICHELLE, CA
[72] KWOK, CALVIN FOOK-LAM, CA
[72] LEIPHART, CHRISTOPHER ROBIN, CA
[72] KOYAMA, YUKI, CA
[72] ASAI, KIYOSHI, CA
[72] KATO, TOSHIHIKO, CA
[71] MYANT INC., CA
[85] 2022-06-27
[86] 2020-12-23 (PCT/CA2020/051790)
[87] (WO2021/127783)
[30] JP (2019-234861) 2019-12-25

[21] **3,166,021**
[13] A1
[51] **Int.Cl. H01R 13/627 (2006.01) H01R 12/61 (2011.01) H01R 24/38 (2011.01) H01R 13/20 (2006.01) H01R 13/26 (2006.01) H05K 1/11 (2006.01)**
[25] EN
[54] **ELECTRICAL CONNECTOR**
[54] **CONNECTEUR ELECTRIQUE**
[72] STRAKA, ADRIAN, CA
[72] ZHENG, MICHELLE, CA
[72] KWOK, CALVIN FOOK-LAM, CA
[72] LEIPHART, CHRISTOPHER ROBIN, CA
[72] OKAMURA, TOMOHITO, CA
[71] MYANT INC., CA
[85] 2022-06-27
[86] 2020-12-23 (PCT/CA2020/051789)
[87] (WO2021/127782)
[30] JP (2019-234674) 2019-12-25

[21] **3,166,022**
[13] A1
[51] **Int.Cl. G06Q 50/00 (2012.01) G06Q 30/02 (2012.01) G16H 20/60 (2018.01)**
[25] EN
[54] **SOCIAL MEDIA INFLUENCER PLATFORM**
[54] **PLATEFORME POUR INFLUENCEURS DES MEDIAS SOCIAUX**
[72] SEIDENSTICKER, KURT, US
[72] SEIDENSTICKER, LAURA, US
[72] POJMAN, ALEX, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-06-27
[86] 2021-01-22 (PCT/EP2021/051429)
[87] (WO2021/148590)
[30] US (62/964,344) 2020-01-22

[21] **3,166,024**
[13] A1
[51] **Int.Cl. F04B 13/00 (2006.01) F04B 17/03 (2006.01) F04B 43/12 (2006.01) F04B 49/06 (2006.01)**
[25] EN
[54] **PERISTALTIC METERING PUMP AND METHODS OF OPERATION**
[54] **POMPE DE DOSAGE PERISTALTIQUE ET PROCEDES DE FONCTIONNEMENT**
[72] LINDENMOYER, MARK, US
[72] CLASEN, PATRICK, US
[72] MARKS, TIMOTHY, US
[72] CLOUGH, CHRISTIAN, US
[72] LAWYER, JUSTIN, US
[71] ECOTECH MARINE, LLC, US
[85] 2022-06-24
[86] 2021-01-04 (PCT/US2021/012055)
[87] (WO2021/138659)
[30] US (62/956,984) 2020-01-03

[21] **3,166,027**
[13] A1
[51] **Int.Cl. A61K 38/16 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **GLUCAGON AND GLP-1 CO-AGONISTS FOR THE TREATMENT OF CHRONIC KIDNEY DISEASE AND DIABETIC KIDNEY DISEASE IN TYPE 2 DIABETES**
[54] **CO-AGONISTES DU GLUCAGON ET DU GLP-1 POUR LE TRAITEMENT D'UNE MALADIE RENALE CHRONIQUE ET D'UNE MALADIE RENALE DIABETIQUE DANS LE DIABETE DE TYPE 2**
[72] PARKER, VICTORIA, GB
[72] ROBERTSON, DARREN, GB
[72] JERMUTUS, LUTZ, GB
[71] MEDIMMUNE LIMITED, GB
[85] 2022-06-27
[86] 2021-01-08 (PCT/EP2021/050227)
[87] (WO2021/140174)
[30] US (62/959,698) 2020-01-10
[30] US (63/037,832) 2020-06-11
[30] US (63/089,386) 2020-10-08

[21] **3,166,030**
[13] A1
[51] **Int.Cl. A23L 33/19 (2016.01) A23J 1/20 (2006.01) A23J 3/08 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **METHOD OF PRODUCING DENSE WHEY PROTEIN NANOGELS, THE RESULTING WHEY PROTEIN NANOGELS OR NANOGEL COMPOSITIONS, AND FOOD PRODUCTS CONTAINING SUCH WHEY PROTEIN NANOGELS OR NANOGEL COMPOSITIONS**
[54] **PROCEDE DE PRODUCTION DE NANOGELS DE PROTEINE DE LACTOSERUM DENSES, NANOGELS DE PROTEINE DE LACTOSERUM OU COMPOSITIONS DE NANOGEL OBTENUS, ET PRODUITS ALIMENTAIRES CONTENANT DE TE LS NANOGELS DE PROTEINE DE LACTOSERUM OU COMPOSITIONS DE NANOGEL**
[72] NIELSEN, SOREN BANG, DK
[72] JAGER, TANJA CHRISTINE, DK
[72] JENSEN, LINDA BONDE, DK
[72] PARJIKOLAEI, BEHNAZ RAZI, DK
[71] ARLA FOODS AMBA, DK
[85] 2022-06-27
[86] 2020-12-29 (PCT/EP2020/087988)
[87] (WO2021/136785)
[30] EP (19220144.0) 2019-12-30

[21] **3,166,033**
[13] A1
[51] **Int.Cl. A61K 8/67 (2006.01) C12N 1/14 (2006.01) C12N 9/20 (2006.01)**
[25] EN
[54] **LIPASE-MODIFIED STRAIN**
[54] **SOUCHE MODIFIEE PAR UNE LIPASE**
[72] MCMAHON, JENNA, CH
[72] KOOI, ELVIN IRSAN, CH
[72] WU, LIANG, CH
[72] DE JONG, RENE MARCEL, CH
[72] VYAS, VALMIK KANUBHAI, CH
[72] HOUSTON, PETER LOUIS, CH
[71] DSM IP ASSETS B.V., NL
[85] 2022-06-27
[86] 2020-12-18 (PCT/EP2020/087018)
[87] (WO2021/136689)
[30] CH (01716/19) 2019-12-30
[30] EP (20187829.5) 2020-07-27

[21] **3,166,035**
[13] A1
[51] **Int.Cl. H02J 50/12 (2016.01) H02J 50/40 (2016.01) A61B 1/04 (2006.01) A61B 18/12 (2006.01) A61B 18/18 (2006.01) A61N 5/02 (2006.01)**
[25] EN
[54] **A RECEIVER COMPRISING COILS FOR WIRELESSLY RECEIVING POWER**
[54] **RECEPTEUR COMPRENANT DES BOBINES POUR RECEVOIR DE L'ENERGIE SANS FIL**
[72] HANCOCK, CHRISTOPHER PAUL, GB
[72] WALLER, EDWARD, GB
[72] PRESTON, SHAUN, GB
[71] CREO MEDICAL LIMITED, GB
[85] 2022-06-27
[86] 2020-12-17 (PCT/EP2020/086803)
[87] (WO2021/139996)
[30] GB (2000115.2) 2020-01-06

[21] **3,166,040**
[13] A1
[51] **Int.Cl. C08L 27/06 (2006.01) C08K 3/26 (2006.01) C08K 5/098 (2006.01) C08K 13/02 (2006.01)**
[25] EN
[54] **LOW-ODOR SOFT PVC MATERIAL**
[54] **MATERIAU EN PVC SOUPLE A FAIBLE ODEUR**
[72] ZHU, XIUMEI, CN
[72] HUANG, XIANBO, CN
[72] YE, NANBIAO, CN
[72] WANG, YUSEN, CN
[72] YIN, GUOJIE, CN
[72] XIE, MINGXING, CN
[72] YANG, XIAOYUN, CN
[71] KINGFA SCI. & TECH. CO., LTD., CN
[85] 2022-06-27
[86] 2020-10-30 (PCT/CN2020/125101)
[87] (WO2021/129140)
[30] CN (201911371662.9) 2019-12-26

[21] **3,166,048**
[13] A1
[51] **Int.Cl. A61F 9/007 (2006.01)**
[25] EN
[54] **PHACOEMULSIFICATION APPARATUS**
[54] **APPAREIL DE PHACOEMULSIFICATION**
[72] GOVARI, ASSAF, IL
[72] GLINER, VADIM, IL
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2022-06-27
[86] 2020-11-23 (PCT/IB2020/061045)
[87] (WO2021/130570)
[30] US (16/727,100) 2019-12-26

[21] **3,166,050**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 47/14 (2017.01) A61K 47/26 (2006.01) A61K 47/32 (2006.01) A61K 47/38 (2006.01) A61P 1/00 (2006.01) A61P 1/06 (2006.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01) A61P 17/14 (2006.01) A61P 19/02 (2006.01)**
[25] EN
[54] **STABLE IMMEDIATE RELEASE TABLET AND CAPSULE FORMULATIONS OF 1-((2S,5R)-5-((7H-PYRROLO[2,3-D]PYRIMIDIN-4-YL)AMINO)-2-METHYLPIPERIDIN-1-YL)PROP-2-EN-1-ONE**
[54] **FORMULATIONS STABLES DE CAPSULES ET COMPRIMES A LIBERATION IMMEDIATE DE 1-((2S,5R)-5-((7H-PYRROLO[2,3-D]PYRIMIDIN-4-YL)AMINO)-2-METHYLPIPERIDIN-1-YL)PROP-2-EN-1-ONE**
[72] BARRETT, ANDREW RICHARD, GB
[72] SMALES, IAN LEONARD, GB
[72] TURKI, RAND DHIYAA, GB
[72] WONG, SUET MEI, GB
[71] PFIZER R&D UK LIMITED, GB
[85] 2022-06-27
[86] 2020-12-29 (PCT/IB2020/062524)
[87] (WO2021/137160)
[30] US (62/955,497) 2019-12-31

[21] **3,166,051**
[13] A1
[51] **Int.Cl. H02J 9/06 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR FLUX MANAGEMENT IN IMPEDANCE ISOLATION SINGLE CONVERSION (ZISC) BASED UPS SYSTEM**
[54] **APPAREIL ET PROCEDE DE GESTION DE FLUX DANS UN SYSTEME UPS REPOSANT SUR UNE CONVERSION UNIQUE D'ISOLATION D'IMPEDANCE (ZISC)**
[72] PULIKANTI, SRIDHAR, NZ
[72] WALTON, SIMON, NZ
[72] TURNER, ROBERT, NZ
[72] ELLIOTT, NICHOLAS JAMES, NZ
[71] ABB SCHWEIZ AG, CH
[85] 2022-06-27
[86] 2020-01-09 (PCT/EP2020/050459)
[87] (WO2021/139891)

[21] **3,166,052**
[13] A1
[51] **Int.Cl. B60K 35/00 (2006.01) B60K 37/06 (2006.01) B62D 55/00 (2006.01) E01H 4/00 (2006.01) E01H 4/02 (2006.01)**
[25] EN
[54] **TRACKED VEHICLE COMPRISING A USER INTERFACE**
[54] **VEHICULE A CHENILLES COMPRENANT UNE INTERFACE UTILISATEUR**
[72] KIRCHMAIR, MARTIN, IT
[72] MUEHLSTEIGER, STEPHAN, IT
[71] PRINOTH S.P.A., IT
[85] 2022-06-27
[86] 2020-12-30 (PCT/IB2020/062550)
[87] (WO2021/137175)
[30] IT (102019000025747) 2019-12-30

[21] **3,166,053**
[13] A1
[51] **Int.Cl. A01B 76/00 (2006.01) A01B 15/08 (2006.01) A01B 79/00 (2006.01) A01C 1/00 (2006.01) A01C 5/06 (2006.01)**
[25] EN
[54] **APPARATUSES FOR SOIL AND SEED MONITORING**
[54] **APPAREILS DE SURVEILLANCE DE SOL ET DE SEMENCES**
[72] HODEL, JEREMY, US
[72] STRNAD, MICHAEL, US
[71] PRECISION PLANTING LLC, US
[85] 2022-06-27
[86] 2020-09-28 (PCT/IB2020/059047)
[87] (WO2021/144629)
[30] US (62/962,795) 2020-01-17

[21] **3,166,057**
[13] A1
[51] **Int.Cl. A61K 33/04 (2006.01) A61K 47/06 (2006.01) A61K 47/44 (2017.01)**
[25] EN
[54] **MANUFACTURING OF SELENIUM DISULFIDE COMPOSITIONS**
[54] **FABRICATION DE COMPOSITIONS DE DISULFURE DE SELENIUM**
[72] BARASH-EPSTEIN, HILA, IL
[72] NAHUM, SHIMON, IL
[72] AMSELEM, SHIMON, IL
[72] ALSTER, YAIR, IL
[71] AZURA OPHTHALMICS LTD., IL
[85] 2022-06-27
[86] 2020-12-30 (PCT/IB2020/001094)
[87] (WO2021/136968)
[30] US (62/956,512) 2020-01-02

[21] **3,166,060**
[13] A1
[51] **Int.Cl. A61F 9/008 (2006.01)**
[25] EN
[54] **DIGITALLY RECONSTRUCTING LASER CUTTING PATTERNS IN OPHTHALMIC SURGICAL LASER SYSTEM**
[54] **RECONSTRUCTION NUMERIQUE DE MOTIFS DE DECOUPE AU LASER DANS UN SYSTEME LASER CHIRURGICAL OPHTALMIQUE**
[72] GRAY, PAUL, US
[72] DAI, GUANGMING, US
[72] MALEK TABRIZI, ALIREZA, US
[72] FU, HONG, US
[71] AMO DEVELOPMENT, LLC, US
[85] 2022-06-27
[86] 2020-11-18 (PCT/IB2020/060875)
[87] (WO2021/137035)
[30] US (62/955,225) 2019-12-30

[21] **3,166,078**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01) A45C 11/00 (2006.01) B65G 1/00 (2006.01)**
[25] EN
[54] **CONTACT LENS FITTING SET ASSEMBLY AND AUTOMATIC IDENTIFICATION TECHNIQUES**
[54] **ASSEMBLAGE D'ENSEMBLE D'AJUSTEMENT DE LENTILLE DE CONTACT ET TECHNIQUES D'IDENTIFICATION AUTOMATIQUE**
[72] STAD, SIMONE JACQUELINE, NL
[72] KAYSER, ADAM, CH
[71] ALCON INC., CH
[85] 2022-06-24
[86] 2021-02-12 (PCT/IB2021/051180)
[87] (WO2021/161242)
[30] US (62/976,769) 2020-02-14

[21] **3,166,082**
[13] A1
[51] **Int.Cl. D06F 95/00 (2006.01) D06F 73/02 (2006.01) D06F 93/00 (2006.01)**
[25] EN
[54] **DEVICE FOR THE AUTOMATIC LOADING OF HANGERS IN AN APPARATUS FOR IRONING SHIRTS OR SIMILAR ITEMS AND APPARATUS COMPRISING SUCH DEVICE**
[54] **DISPOSITIF DE CHARGEMENT AUTOMATIQUE DE CINTRES DANS UN APPAREIL PERMETTANT DE REPASSER DES CHEMISES OU DES ARTICLES SIMILAIRES ET APPAREIL COMPRENANT UN TEL DISPOSITIF**
[72] CARTABBIA, PAOLO, IT
[71] MACPI S.P.A. PRESSING DIVISION, IT
[85] 2022-06-24
[86] 2021-02-23 (PCT/IB2021/051506)
[87] (WO2021/181185)
[30] IT (102020000005056) 2020-03-10

[21] **3,166,089**
[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **ACHROMATIC LENSES FOR VISION TREATMENT**
[54] **LENTILLES ACHROMATIQUES POUR LE TRAITEMENT DE LA VISION**
[72] ROSEN, ROBERT, NL
[72] GOUNOU, FRANCK, NL
[71] AMO GRONINGEN B.V., NL
[85] 2022-06-27
[86] 2020-11-16 (PCT/EP2020/082297)
[87] (WO2021/136616)
[30] US (62/955,341) 2019-12-30

[21] **3,166,094**
[13] A1
[51] **Int.Cl. G06F 16/34 (2019.01) G06F 16/35 (2019.01) G06F 16/951 (2019.01)**
[25] EN
[54] **COMMODITY SHORT TITLE GENERATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE GENERATION DE TITRE D'ABREGE DE PRODUIT**
[72] ZHU, BIN, CN
[72] SHEN, YI, CN
[72] QI, KANG, CN
[72] NI, HEQIANG, CN
[72] CHEN, SHU, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-27
[86] 2020-08-28 (PCT/CN2020/111943)
[87] (WO2021/128914)
[30] CN (201911373120.5) 2019-12-27

[21] **3,166,097**
[13] A1
[51] **Int.Cl. A61B 1/018 (2006.01) A61B 90/30 (2016.01) A61B 1/00 (2006.01) A61B 1/01 (2006.01) A61B 5/06 (2006.01) A61B 17/11 (2006.01) A61B 90/00 (2016.01) A61B 17/00 (2006.01) A61B 17/12 (2006.01) A61B 17/30 (2006.01) A61F 5/00 (2006.01)**
[25] EN
[54] **DEVICES FOR LOCATING A BODY LUMEN**
[54] **DISPOSITIFS DE LOCALISATION D'UNE LUMIERE CORPORELLE**
[72] DAYTON, PETER L., US
[72] CAUCHE, NICOLAS, BE
[72] DELATTRE, CECILIA, BE
[72] BARTHET, MARC A., FR
[72] GONZALEZ, JEAN-MICHEL, FR
[72] BARBATO, LOUIS J., US
[72] BROWN, ERIC F., US
[72] NGUYEN, JOHN, US
[72] FAVREAU, JOHN T., US
[72] NARDONE, MARCIA, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[71] BRUSSELS MEDICAL DEVICE CENTER, BE
[85] 2022-06-24
[86] 2020-09-28 (PCT/US2020/052995)
[87] (WO2021/137906)
[30] US (62/954,875) 2019-12-30

[21] **3,166,099**
[13] A1
[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/10 (2012.01) G06K 7/08 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING FRAUDULENT BANK TRANSACTIONS**
[54] **SYSTEME ET PROCEDE DE DETECTION DE TRANSACTIONS BANCAIRES FRAUDULEUSES**
[72] POST, RICHARD ALLEN, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2022-06-24
[86] 2020-11-09 (PCT/US2020/059678)
[87] (WO2021/133477)
[30] US (16/727,475) 2019-12-26

[21] **3,166,102**
[13] A1
[51] **Int.Cl. G06Q 40/04 (2012.01) H04L 43/10 (2022.01)**
[25] EN
[54] **SMART DEVICE MONITORING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE SURVEILLANCE DE DISPOSITIF INTELLIGENT**
[72] RONG, DUOJUN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-27
[86] 2020-08-28 (PCT/CN2020/111944)
[87] (WO2021/128915)
[30] CN (201911358092.X) 2019-12-25

[21] **3,166,118**
[13] A1
[51] **Int.Cl. A23J 1/08 (2006.01) A47J 43/14 (2006.01)**
[25] EN
[54] **AN EGG BREAKING APPARATUS AND A METHOD FOR INCREASING THE YIELD OF AN EGG BREAKING PROCESS**
[54] **APPAREIL DE CASSAGE D'□UF ET PROCEDE POUR AUGMENTER LE RENDEMENT D'UN PROCEDE DE CASSAGE D'□UFS**
[72] KRISTENSEN, JENS KRISTIAN SONDERBY, DK
[71] SANOVO TECHNOLOGY A/S, DK
[85] 2022-06-27
[86] 2020-02-07 (PCT/DK2020/050031)
[87] (WO2021/155893)

[21] **3,166,123**
[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/02 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **MULTI-REGION REFRACTIVE LENSES FOR VISION TREATMENT, METHOD AND SYSTEM FOR FABRICATING THE SAME**
[54] **LENTILLES DE REFRACTION A REGIONS MULTIPLES POUR TRAITEMENT DE LA VISION, PROCEDE ET SYSTEME DE FABRICATION DE CELLES-CI**
[72] ROSEN, ROBERT, NL
[72] GOUNOU, FRANCK, NL
[71] AMO GRONINGEN B.V., NL
[85] 2022-06-27
[86] 2020-12-01 (PCT/EP2020/084152)
[87] (WO2021/136627)
[30] US (62/955,327) 2019-12-30

[21] **3,166,125**
[13] A1
[51] **Int.Cl. G02C 7/04 (2006.01)**
[25] EN
[54] **ACHROMATIC LENSES AND LENSES HAVING DIFFRACTIVE PROFILES WITH IRREGULAR WIDTH FOR VISION TREATMENT**
[54] **LENTILLES ACHROMATIQUES ET LENTILLES AYANT DES PROFILS DE DIFFRACTION AYANT UNE LARGEUR IRREGULIERE POUR LE TRAITEMENT DE LA VISION**
[72] GOUNOU, FRANCK, NL
[72] WEEBER, HENDRIK A., NL
[72] ROSEN, ROBERT, NL
[72] CANOVAS VIDAL, CARMEN, NL
[72] PIERS, PATRICIA A., NL
[71] AMO GRONINGEN B.V., NL
[85] 2022-06-27
[86] 2020-12-22 (PCT/EP2020/087685)
[87] (WO2021/136731)
[30] US (62/955,355) 2019-12-30

[21] **3,166,126**
[13] A1
[51] **Int.Cl. A23G 3/40 (2006.01) A23P 20/20 (2016.01) A23G 3/46 (2006.01) A23G 3/48 (2006.01) A23G 3/54 (2006.01)**
[25] EN
[54] **MULTILAYERED PRODUCT WITH WATER ACTIVITY DIFFERENT LEVELS**
[54] **PRODUIT MULTICOUCHE AYANT DES NIVEAUX D'ACTIVITE DE L'EAU DIFFERENTS**
[72] NOWAK, ALLISON THERESE, US
[71] KRAFT FOODS GROUP BRANDS LLC, US
[85] 2022-06-24
[86] 2020-12-14 (PCT/US2020/064813)
[87] (WO2021/138032)
[30] US (16/729,766) 2019-12-30

[21] **3,166,127**
[13] A1
[51] **Int.Cl. A23G 3/54 (2006.01) A23L 25/00 (2016.01) A23P 20/20 (2016.01) A21D 13/14 (2017.01) A23G 3/38 (2006.01)**
[25] EN
[54] **NO SUGAR ADDED MULTILAYER EDIBLE PRODUCTS COMPRISING A CENTER AND A BARRIER LAYER**
[54] **PRODUITS COMESTIBLES MULTICOUCHES SANS SUCRE AJOUTE COMPRENANT UN CENTRE ET UNE COUCHE BARRIERE**
[72] NOWAK, ALLISON THERESE, US
[72] GORIS, MADELINE ERICKSON, US
[72] FYE, ALEXIS MARIE, US
[71] KRAFT FOODS GROUP BRANDS LLC, US
[85] 2022-06-24
[86] 2020-12-15 (PCT/US2020/065025)
[87] (WO2021/138039)
[30] US (16/731,515) 2019-12-31

[21] **3,166,128**
[13] A1
[51] **Int.Cl. B02C 17/18 (2006.01)**
[25] EN
[54] **GRATE SUPPORT ELEMENT AND OPEN-ENDED GRINDING MILL**
[54] **ELEMENT DE SUPPORT DE GRILLE ET BROYEUR A EXTREMITE OUVERTE**
[72] BORDI, DAMON, AU
[72] VETTORATO, MARTIN, SE
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2022-06-27
[86] 2019-12-30 (PCT/FI2019/050926)
[87] (WO2021/136863)

[21] **3,166,129**
[13] A1
[51] **Int.Cl. G02C 7/04 (2006.01) A61F 9/013 (2006.01)**
[25] EN
[54] **DUAL CONFIGURATION CONTACT LENSES**
[54] **LENTILLES DE CONTACT A DOUBLE CONFIGURATION**
[72] ALSTER, YAIR, IL
[72] RAFAELI, OMER, IL
[72] CLARKE, MATT, IL
[72] BETSER, NIR, IL
[72] AZMON, BARAK, IL
[71] PRES-BY VISION LTD., IL
[85] 2022-06-27
[86] 2020-12-17 (PCT/IB2020/001050)
[87] (WO2021/136961)
[30] US (62/955,610) 2019-12-31

[21] **3,166,130**
[13] A1
[51] **Int.Cl. A21D 13/13 (2017.01) A21D 13/34 (2017.01) A23C 9/152 (2006.01) A23C 9/154 (2006.01) A23C 9/156 (2006.01) A23C 13/12 (2006.01) A23C 19/09 (2006.01)**
[25] EN
[54] **MULTILAYER EDIBLE PRODUCTS COMPRISING A BARRIER LAYER**
[54] **PRODUITS COMESTIBLES MULTICOUCHES COMPRENANT UNE COUCHE BARRIERE**
[72] NOWAK, ALLISON THERESE, US
[71] KRAFT FOODS GROUP BRANDS LLC, US
[85] 2022-06-24
[86] 2020-12-16 (PCT/US2020/065239)
[87] (WO2021/138052)
[30] US (16/729,761) 2019-12-30

[21] **3,166,135**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4162 (2006.01) A61K 31/454 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) C07D 487/10 (2006.01)**
[25] EN
[54] **THE COMBINATION OF CYCLIN DEPENDENT KINASE 7 INHIBITOR AND IMMUNOTHERAPY FOR TREATMENT OF CANCER**
[54] **ASSOCIATION D'UN INHIBITEUR DE KINASE 7 DEPENDANTE DE CYCLINES ET D'UNE IMMUNOTHERAPIE POUR LE TRAITEMENT DU CANCER**
[72] ROSS, CAMILLA LAULUND CHRISTENSEN, US
[72] GRAY, NATHANAEL S., US
[72] WONG, KWOK-KIN, US
[72] ZHANG, HUA, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[71] NEW YORK UNIVERISTY, US
[85] 2022-06-24
[86] 2020-12-16 (PCT/US2020/065267)
[87] (WO2021/133601)
[30] US (62/953,376) 2019-12-24

[21] **3,166,162**
[13] A1
[51] **Int.Cl. A61K 8/04 (2006.01) A61K 8/44 (2006.01) A61K 8/65 (2006.01) A61K 8/73 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **CROSSLINKED HA-COLLAGEN HYDROGELS AS DERMAL FILLERS**
[54] **HYDROGELS DE COLLAGENE DE TYPE HA RETICULES EN TANT QUE CHARGES DERMIQUES**
[72] TRAINA, CHRISTOPHER A., US
[72] KUTIKOV, ARTEM B., US
[72] YU, XIAOJIE, US
[72] HEE, CHRISTOPHER K., US
[72] MESSINA, DARIN J., US
[72] MORELL, JULIE, FR
[72] DURIEUX, FLORENT, FR
[72] GUETTA, OLIVIER, FR
[72] ROCA MARTINEZ, JEAN-XAVIER, FR
[71] ALLERGAN, INC., US
[85] 2022-06-24
[86] 2020-12-28 (PCT/US2020/067230)
[87] (WO2021/134082)
[30] US (62/953,910) 2019-12-26

[21] **3,166,164**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61M 25/01 (2006.01) A61N 1/04 (2006.01)**
[25] EN
[54] **WOUND-HEALING SYSTEMS AND METHODS THEREOF**
[54] **SYSTEMES DE CICATRISATION ET PROCEDES ASSOCIES**
[72] TA, TERESA, US
[72] OFEK, GIDON, US
[71] BARD ACCESS SYSTEMS, INC., US
[85] 2022-06-27
[86] 2021-01-04 (PCT/US2021/012098)
[87] (WO2021/138675)
[30] US (62/956,897) 2020-01-03

[21] **3,166,165**
[13] A1
[51] **Int.Cl. C08L 101/04 (2006.01) C08J 3/20 (2006.01) C08K 3/22 (2006.01) C08L 27/06 (2006.01) C08L 27/24 (2006.01) F16L 9/12 (2006.01)**
[25] EN
[54] **SYNERGISTIC FLAME & SMOKE SUPPRESSING COMPOSITION FOR PLASTIC APPLICATIONS**
[54] **COMPOSITION SYNERGIQUE DE SUPPRESSION DE FUMEE ET DE FLAMME POUR DES APPLICATIONS DANS LES PLASTIQUES**
[72] GUHDE, BRIAN, US
[72] NIE, LI, US
[72] KNUREK, MARK, US
[72] ZOOK, CHRISTOPHER D., US
[71] LUBRIZOL ADVANCED MATERIALS, INC., US
[85] 2022-06-27
[86] 2020-12-15 (PCT/US2020/065026)
[87] (WO2021/138040)
[30] US (62/956,702) 2020-01-03

[21] **3,166,167**
[13] A1
[51] **Int.Cl. C08L 23/06 (2006.01) B29C 41/04 (2006.01) C08L 23/08 (2006.01)**
[25] EN
[54] **ROTOMOLDING COMPOSITION**
[54] **COMPOSITION DE ROTOMOULAGE**
[72] D'AGOSTINO, CARMINE, CA
[72] ARNOULD, GILBERT, CA
[71] NOVA CHEMICALS CORPORATION, CA
[85] 2022-06-27
[86] 2021-02-12 (PCT/IB2021/051209)
[87] (WO2021/165805)
[30] US (62/977,553) 2020-02-17

[21] **3,166,170**
[13] A1
[51] **Int.Cl. C07K 14/415 (2006.01) C12C 5/00 (2006.01)**
[25] EN
[54] **SUGAR-MODIFIED PROTEIN**
[54] **PROTEINE MODIFIEE PAR UN SUCRE**
[72] IWASA, KEIKO, JP
[72] BEPPU, YOSHINORI, JP
[72] NAKAHARA, KOICHI, JP
[72] MATSUO, YOSHIHIDE, JP
[72] FUJITA, YOHEI, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2022-06-27
[86] 2020-12-15 (PCT/JP2020/046833)
[87] (WO2021/131923)
[30] JP (2019-239831) 2019-12-27

[21] **3,166,173**
[13] A1
[51] **Int.Cl. A01N 37/06 (2006.01) A01N 61/00 (2006.01)**
[25] EN
[54] **PESTICIDAL COMPLEX COMPOSITIONS FOR SYNERGISTIC DELIVERY OF PESTICIDAL ACTIVE INGREDIENTS AND METHODS OF SELECTION THEREOF**
[54] **COMPOSITIONS DE COMPLEXES PESTICIDES POUR L'ADMINISTRATION SYNERGIQUE DE PRINCIPES ACTIFS PESTICIDES ET LEURS PROCEDES DE SELECTION**
[72] ROZEK, ANNETT, CA
[72] SHOKATIAN, SADEGH, CA
[72] MANHAS, KARAN, CA
[72] PARMAR, VINOD, CA
[71] 0903608 B.C. LTD., CA
[85] 2022-06-27
[86] 2020-12-21 (PCT/CA2020/051783)
[87] (WO2021/134127)
[30] US (62/956,108) 2019-12-31
[30] US (63/104,394) 2020-10-22

[21] **3,166,177**
[13] A1
[51] **Int.Cl. F16L 55/04 (2006.01) F16K 15/10 (2006.01) F16K 17/04 (2006.01)**
[25] EN
[54] **BLADDER SAVER DEVICE**
[54] **DISPOSITIF DE PROTECTION DE VESSIE**
[72] JANTZON, CERSTEN, US
[71] PERFORMANCE PULSATION CONTROL, INC., US
[85] 2022-06-27
[86] 2020-12-28 (PCT/US2020/067222)
[87] (WO2021/134079)
[30] US (62/954,216) 2019-12-27

[21] **3,166,179**
[13] A1
[51] **Int.Cl. G06F 11/07 (2006.01) G06N 20/00 (2019.01) G06F 11/14 (2006.01) G06N 3/063 (2006.01) G06N 3/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ERROR RECOVERY**
[54] **SYSTEMES ET PROCEDES DE REPRISE EN CAS D'ERREUR**
[72] PUDIPEDDI, BHARADWAJ, US
[72] MESMAKHOSROSHAHI, MARAL, US
[72] XI, JINWEN, US
[72] KULKARNI, SAURABH M., US
[72] TREMBLAY, MARC, US
[72] BAENNINGER, MATTHIAS, US
[72] CLAUDINO PEREIRA LOPES, NUNO, US
[71] MICROSOFT TEHCNOLOGY LICENSING, LLC, US
[85] 2022-06-27
[86] 2020-12-16 (PCT/US2020/065417)
[87] (WO2021/150327)
[30] US (62/966,019) 2020-01-26
[30] US (16/833,191) 2020-03-27

[21] **3,166,181**
[13] A1
[51] **Int.Cl. A61K 31/4745 (2006.01) A23L 33/10 (2016.01) A23L 33/105 (2016.01) A23L 2/52 (2006.01) A61K 31/36 (2006.01) A61P 3/00 (2006.01) A61P 25/26 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **COMPOSITION CONTAINING SESAMIN AND PQQ**
[54] **COMPOSITION CONTENANT DE LA SESAMINE ET PQQ**
[72] ABE, CHIE, JP
[72] YAGITA, YUKI, JP
[72] ONO, YOSHIKO, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2022-06-27
[86] 2020-12-18 (PCT/JP2020/047425)
[87] (WO2021/132077)
[30] JP (2019-238782) 2019-12-27

[21] **3,166,183**
[13] A1
[51] **Int.Cl. E21B 47/12 (2012.01) E21B 19/10 (2006.01) E21B 44/00 (2006.01) E21B 47/04 (2012.01)**
[25] EN
[54] **DRILLING CONTROL**
[54] **COMMANDE DE FORAGE**
[72] MEEHAN, RICHARD, US
[72] BELASKIE, JAMES, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2022-06-27
[86] 2020-12-18 (PCT/US2020/065789)
[87] (WO2021/133641)
[30] US (62/954,349) 2019-12-27

[21] **3,166,184**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTI-CDCP1 ANTIBODY**
[54] **ANTICORPS ANTI-CDCP1**
[72] HASHIMOTO SHUICHI, JP
[72] NAKAMURA KOJI, JP
[72] SANO HITOMI, JP
[72] YOSHIOKA AKIKO, JP
[72] TAKESUE AKI, JP
[71] CHIOME BIOSCIENCE INC., JP
[85] 2022-06-27
[86] 2020-12-24 (PCT/JP2020/048347)
[87] (WO2021/132427)
[30] JP (2019-238928) 2019-12-27

[21] **3,166,187**
[13] A1
[51] **Int.Cl. C07D 255/02 (2006.01) C07D 257/02 (2006.01) C07F 7/00 (2006.01) C22B 3/44 (2006.01) C22B 34/14 (2006.01)**
[25] EN
[54] **METHOD FOR SYNTHESIZING ZIRCONIUM COMPLEX**
[54] **PROCEDE DE SYNTHESE D'UN COMPLEXE DE ZIRCONIUM**
[72] IMURA, RYOTA, JP
[71] JFE ENGINEERING CORPORATION, JP
[85] 2022-06-27
[86] 2020-12-08 (PCT/JP2020/045605)
[87] (WO2021/145099)
[30] JP (2020-005187) 2020-01-16

[21] **3,166,190**
[13] A1
[51] **Int.Cl. A61B 5/01 (2006.01) A61B 5/24 (2021.01) A61B 5/318 (2021.01) A61B 5/00 (2006.01) A61B 5/026 (2006.01)**
[25] EN
[54] **DIAGNOSTIC SYSTEMS AND METHODS INCLUDING TEMPERATURE-SENSING VASCULAR DEVICES**
[54] **SYSTEMES ET METHODES DE DIAGNOSTIC COMPRENANT DES DISPOSITIFS VASCULAIRES DE DETECTION DE TEMPERATURE**
[72] AKINS, SAMUEL, US
[72] OFEK, GIDON, US
[71] BARD ACCESS SYSTEMS, INC., US
[85] 2022-06-27
[86] 2021-01-07 (PCT/US2021/012529)
[87] (WO2021/142142)
[30] US (62/958,299) 2020-01-07

[21] **3,166,192**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **MICROFLUIDIC CARTRIDGES FOR PROCESSING PARTICLES AND CELLS**
[54] **CARTOUCHES MICROFLUIDIQUES POUR LE TRAITEMENT DE PARTICULES ET DE CELLULES**
[72] SKELLEY, ALISON, US
[72] GANDHI, KHUSHROO, US
[72] WARD, ANTHONY, US
[72] BEHMARDI, YASNA, US
[71] GPB SCIENTIFIC, INC., US
[85] 2022-06-27
[86] 2020-12-23 (PCT/US2020/066812)
[87] (WO2021/133897)
[30] US (62/954,478) 2019-12-28

[21] **3,166,196**
[13] A1
[51] **Int.Cl. G06F 30/13 (2020.01) G06T 19/00 (2011.01)**
[25] EN
[54] **OCCLUSION SOLUTION WITHIN A MIXED REALITY ARCHITECTURAL DESIGN SOFTWARE APPLICATION**
[54] **SOLUTION D'OCCLUSION AU SEIN D'UNE APPLICATION LOGICIELLE DE CONCEPTION ARCHITECTURALE A REALITE MIXTE**
[72] BLODGETT, ROBERT WILLIAM, US
[72] HOWELL, JOSEPH S., US
[71] DIRTT ENVIRONMENTAL SOLUTIONS LTD., CA
[85] 2022-06-27
[86] 2021-01-05 (PCT/IB2021/050050)
[87] (WO2021/140439)
[30] US (62/959,321) 2020-01-10

[21] **3,166,197**
[13] A1
[51] **Int.Cl. A01K 61/13 (2017.01)**
[25] EN
[54] **SEA LICE MITIGATION BASED ON HISTORICAL OBSERVATIONS**
[54] **REDUCTION DES POUX DE MER FONDEE SUR DES OBSERVATIONS HISTORIQUES**
[72] LI, YI, US
[72] YOUNG, GRACE CALVERT, US
[71] X DEVELOPMENT LLC, US
[85] 2022-06-27
[86] 2021-03-02 (PCT/US2021/020460)
[87] (WO2021/188292)
[30] US (16/825,577) 2020-03-20

[21] **3,166,200**
[13] A1
[51] **Int.Cl. B29C 70/20 (2006.01) B32B 37/12 (2006.01) C09D 5/16 (2006.01) D06N 3/04 (2006.01) D06N 5/00 (2006.01) E04D 1/28 (2006.01) E04D 12/00 (2006.01)**
[25] EN
[54] **MATRIX ASSISTED TWO COMPONENT ROOF COATING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE REVETEMENT DE TOIT A DEUX COMPOSANTS ASSISTE PAR MATRICE**
[72] ZHENG, YAN, US
[72] XIAO, YIXI, US
[72] BOSS, DANIEL E., US
[72] CHICH, ADEM, US
[71] BMIC LLC, US
[85] 2022-06-27
[86] 2021-02-17 (PCT/US2021/018360)
[87] (WO2021/167967)
[30] US (62/978,032) 2020-02-18

[21] **3,166,208**
[13] A1
[51] **Int.Cl. A01K 61/95 (2017.01) A01K 61/60 (2017.01) A01K 29/00 (2006.01)**
[25] EN
[54] **CAMERA WINCH CONTROL FOR DYNAMIC MONITORING**
[54] **COMMANDE DE TREUIL DE CAMERA POUR SURVEILLANCE DYNAMIQUE**
[72] JAMES, BARNABY JOHN, US
[72] KICHKAYLO, TATIANA, US
[72] KIMBALL, PETER, US
[72] THORNTON, CHRISTOPHER, US
[71] X DEVELOPMENT LLC, US
[85] 2022-06-27
[86] 2021-02-03 (PCT/US2021/016387)
[87] (WO2021/158644)
[30] US (16/785,252) 2020-02-07

[21] **3,166,211**
[13] A1
[51] **Int.Cl. A23K 10/18 (2016.01) A23K 50/42 (2016.01) A23K 50/48 (2016.01)**
[25] EN
[54] **MICROBIAL COMPOSITIONS AND METHODS OF USE FOR CANINE ENTEROPATHY AND DYSBIOSIS**
[54] **COMPOSITIONS MICROBIENNES ET PROCEDES D'UTILISATION POUR L'ENTEROPATHIE CANINE ET LA DYSBIOSE**
[72] EMBREE, MALLORY, US
[72] GOGUL, GRANT, US
[72] YANG, FAN, US
[71] NATIVE MICROBIALS, INC., US
[85] 2022-06-27
[86] 2021-02-10 (PCT/US2021/017487)
[87] (WO2021/163212)
[30] US (62/972,337) 2020-02-10
[30] US (63/083,178) 2020-09-25

[21] **3,166,215**
[13] A1
[51] **Int.Cl. C03C 3/087 (2006.01) C03B 37/01 (2006.01) C03C 13/02 (2006.01) C08K 7/14 (2006.01)**
[25] EN
[54] **FIBERGLASS COMPOSITION FOR HIGHER MODULUS**
[54] **COMPOSITION DE FIBRE DE VERRE POUR MODULE SUPERIEUR**
[72] KORWIN-EDSON, MICHELLE, US
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[85] 2022-06-27
[86] 2020-12-30 (PCT/US2020/067420)
[87] (WO2021/138394)
[30] US (62/956,422) 2020-01-02

[21] **3,166,220**
[13] A1
[51] **Int.Cl. F02C 7/10 (2006.01) F02C 7/08 (2006.01)**
[25] EN
[54] **RECUPERATOR FOR A GAS TURBINE ENGINE**
[54] **RECUPERATEUR POUR UN MOTEUR A TURBINE A GAZ**
[72] HEWARD, PHILLIP, GB
[72] NIMMA, VASUDEVA, GB
[71] BLADON JETS HOLDINGS LIMITED, IM
[85] 2022-06-28
[86] 2020-03-05 (PCT/EP2020/055850)
[87] (WO2021/175425)

[21] **3,166,221**
[13] A1
[51] **Int.Cl. A23L 2/00 (2006.01) A23L 2/66 (2006.01) C07K 14/415 (2006.01)**
[25] EN
[54] **NON-ALCOHOLIC BEER-FLAVORED BEVERAGE, RICH TASTE ENHANCING AGENT AND SOURNESS REDUCING AGENT FOR NON-ALCOHOLIC BEER-FLAVORED BEVERAGES, AND RICH TASTE ENHANCING METHOD AND SOURNESS REDUCING METHOD FOR NON-ALCOHOLIC BEER-FLAVORED BEVERAGES**
[54] **BOISSON NON ALCOOLISEE AROMATISEE A LA BIERE, AGENT AMELIORANT LE GOUT RICHE ET AGENT REDUISANT L'AIGREUR POUR BOISSONS NON ALCOOLISEES AROMATISEES A LA BIERE, PROCEDE D'AMELIORATION DU GOUT RICHE ET PROCEDE DE REDUCTION DE L'AIGREUR POUR BOISSONS NON ALCOOLISEES AROMATISEES A LA BIERE**
[72] IWASA, KEIKO, JP
[72] BEPPU, YOSHINORI, JP
[72] MATSUO, YOSHIHIDE, JP
[72] FUJITA, YOHEI, JP
[71] SUNTORY HOLDINGS LIMITED, JP
[85] 2022-06-27
[86] 2020-12-15 (PCT/JP2020/046834)
[87] (WO2021/131924)
[30] JP (2019-239771) 2019-12-27

[21] **3,166,223**
[13] A1
[51] **Int.Cl. A47D 13/06 (2006.01)**
[25] EN
[54] **COLLAPSIBLE INFANT PLAYPEN**
[54] **PARC POUR BEBE PLIABLE**
[72] MOUNTZ, JONATHAN K., US
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2022-06-28
[86] 2020-12-29 (PCT/EP2020/087983)
[87] (WO2021/136782)
[30] US (62/954,971) 2019-12-30

[21] **3,166,225**
[13] A1
[51] **Int.Cl. A61F 2/16 (2006.01) G02C 7/04 (2006.01)**
[25] EN
[54] **ACHROMATIC LENSES WITH ZONE ORDER MIXING FOR VISION TREATMENT**
[54] **LENTILLES ACHROMATIQUES A MELANGE D'ORDRE DE ZONE POUR LE TRAITEMENT DE LA VISION**
[72] ROSEN, ROBERT, NL
[72] GOUNOU, FRANCK, NL
[71] AMO GRONINGEN B.V., NL
[85] 2022-06-28
[86] 2020-11-16 (PCT/EP2020/082291)
[87] (WO2021/136615)
[30] US (62/955,346) 2019-12-30

[21] **3,166,227**
[13] A1
[51] **Int.Cl. H01L 33/08 (2010.01) H01L 33/38 (2010.01) H01L 33/40 (2010.01) H01L 33/62 (2010.01) H01L 27/15 (2006.01)**
[25] EN
[54] **LIGHT-EMITTING ELEMENT AND LED DISPLAY DEVICE INCLUDING SAME**
[54] **ELEMENT ELECTROLUMINESCENT ET DISPOSITIF D'AFFICHAGE A DEL LE COMPRENANT**
[72] JANG, JONG MIN, KR
[72] LEE, SUNG HYUN, KR
[72] KIM, CHANG YEON, KR
[71] SEOUL VIOSYS CO., LTD., KR
[85] 2022-06-27
[86] 2020-12-28 (PCT/KR2020/019198)
[87] (WO2021/133140)
[30] US (62/954,406) 2019-12-28
[30] US (63/000,044) 2020-03-26
[30] US (17/133,623) 2020-12-23

[21] **3,166,234**
[13] A1
[51] **Int.Cl. C07D 249/12 (2006.01) A01N 43/653 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **NEW CRYSTAL FORM OF FLUCARBAZONE-SODIUM**
[54] **NOUVELLE FORME CRISTALLINE DE FLUCARBAZONE-SODIUM**
[72] BRISTOW, JAMES TIMOTHY, CN
[71] JIANGSU ROTAM CHEMISTRY CO., LTD., CN
[85] 2022-06-28
[86] 2019-12-30 (PCT/CN2019/130009)
[87] (WO2021/134242)

[21] **3,166,251**
[13] A1
[51] **Int.Cl. A61K 31/407 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR THE TREATMENT OF MYELOFIBROSIS**
[54] **COMPOSES DE TRAITEMENT DE LA MYELOFIBROSE**
[72] GILES, FRANCIS J., US
[72] MAZAR, ANDREW, US
[71] ACTUATE THERAPEUTICS, INC., US
[85] 2022-06-27
[86] 2020-12-23 (PCT/US2020/066762)
[87] (WO2021/133866)
[30] US (62/953,654) 2019-12-26

[21] **3,166,254**
[13] A1
[51] **Int.Cl. C07C 221/00 (2006.01) C07C 213/00 (2006.01) C07C 225/16 (2006.01)**
[25] EN
[54] **DEXTROMETHADONE AS A DISEASE-MODIFYING TREATMENT FOR NEUROPSYCHIATRIC DISORDERS AND DISEASES**
[54] **DEXTROMETHADONE EN TANT QUE TRAITEMENT MODIFIANT UNE MALADIE POUR DES TROUBLES ET DES MALADIES NEUROPSYCHIATRIQUES**
[72] INTURRISI, CHARLES E., US
[72] DE MARTIN, SARA, IT
[72] MATTAREI, ANDREA, IT
[72] SGRIGNANI, JACOPO, IT
[72] CAVALLI, ANDREA, CH
[72] MANFREDI, PAOLO L., US
[71] UNIVERSITY OF PADOVA, IT
[71] INSTITUTE FOR RESEARCH IN BIOMEDICINE (IRB), CH
[71] INTURRISI, CHARLES E., US
[71] MANFREDI, PAOLO L., US
[85] 2022-06-27
[86] 2020-12-30 (PCT/US2020/067498)
[87] (WO2021/138443)
[30] US (62/956,839) 2020-01-03
[30] US (62/963,874) 2020-01-21
[30] US (62/993,188) 2020-03-23
[30] US (63/010,391) 2020-04-15
[30] US (63/031,785) 2020-05-29

[21] **3,166,255**
[13] A1
[51] **Int.Cl. A47K 10/32 (2006.01)**
[25] EN
[54] **DISPENSING CONTAINER**
[54] **RECIPIENT DE DISTRIBUTION**
[72] MAY, GLENN P., US
[71] THE CLOROX COMPANY, US
[85] 2022-06-27
[86] 2021-01-15 (PCT/US2021/013552)
[87] (WO2021/150433)
[30] US (16/748,059) 2020-01-21

[21] **3,166,259**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **MULTISPECIFIC ANTI-CLAUDIN-18.2 CONSTRUCTS AND USES THEREOF**
[54] **CONSTRUCTIONS ANTI-CLAUDINE-18.2 MULTISPECIFIQUES ET LEURS UTILISATIONS**
[72] LI, ZHONGDAO, CN
[72] YIN, LIUSONG, CN
[72] ZHOU, TIELIN, CN
[72] FANG, ZHUO, CN
[72] JIN, YI, CN
[71] NANJING GENSCRIPT BIOTECH CO., LTD., CN
[85] 2022-06-28
[86] 2021-01-19 (PCT/CN2021/072747)
[87] (WO2021/143934)
[30] CN (PCT/CN2020/072990) 2020-01-19

[21] **3,166,272**
[13] A1
[51] **Int.Cl. A61P 31/04 (2006.01) C07K 14/22 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR VACCINATION AGAINST NEISSERIA GONORRHOEAE**
[54] **COMPOSITIONS ET METHODES POUR LA VACCINATION CONTRE NEISSERIA GONORRHOEAE**
[72] MOE, GREGORY, US
[72] GIUNTINI, SERENA, US
[71] OMVAX, INC., US
[85] 2022-06-27
[86] 2021-10-22 (PCT/US2021/056249)
[87] (WO2022/087407)
[30] US (63/104,819) 2020-10-23

[21] **3,166,309**
[13] A1
[51] **Int.Cl. A61B 17/34 (2006.01) A61M 60/191 (2021.01) A61M 60/289 (2021.01) A61M 60/839 (2021.01) A61M 60/863 (2021.01) A61M 60/894 (2021.01) A61M 60/90 (2021.01) A61M 39/06 (2006.01)**
[25] EN
[54] **AN ACCESS DEVICE FOR A HEART, A REMOVABLE HEMOSTATIC VALVE UNIT, AND A SYSTEM INCLUDING A CARDIAC ASSIST UNIT**
[54] **DISPOSITIF D'ACCES A UN C□UR, UNITE VALVE HEMOSTATIQUE AMOVIBLE, ET SYSTEME COMPRENANT UNE UNITE D'ASSISTANCE CARDIAQUE**
[72] SOLEM, JAN OTTO, SE
[72] SOLEM, KRISTIAN, SE
[72] ENGVALL, DANIEL, SE
[72] WOLFF, MARTIN, SE
[71] SYNTACH AG, CH
[85] 2022-06-28
[86] 2020-12-30 (PCT/EP2020/088064)
[87] (WO2021/136822)
[30] EP (PCT/EP2019/087182) 2019-12-30
[30] US (16/990,903) 2020-08-11

[21] **3,166,310**
[13] A1
[51] **Int.Cl. A61K 31/445 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOUND FOR THE TREATMENT AND PREVENTION OF CENTRAL NERVOUS SYSTEM DISORDERS**
[54] **COMPOSE POUR LE TRAITEMENT ET LA PREVENTION DE TROUBLES DU SYSTEME NERVEUX CENTRAL**
[72] GARCIA-LADONA, FRANCISCO JAVIER, BE
[71] ABAXYS THERAPEUTICS, BE
[85] 2022-06-28
[86] 2020-12-31 (PCT/EP2020/088071)
[87] (WO2021/136827)
[30] US (62/955,502) 2019-12-31

[21] **3,166,312**
[13] A1
[51] **Int.Cl. A61M 1/16 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR AIR-FREE FILLING OF A FLUID MANAGEMENT SYSTEM**
[54] **DISPOSITIF ET PROCEDE DE REMPLISSAGE SANS AIR D'UN SYSTEME DE GESTION DE FLUIDE**
[72] ROMMELT, NICO, DE
[71] FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH, DE
[85] 2022-06-28
[86] 2021-01-22 (PCT/EP2021/051418)
[87] (WO2021/148586)
[30] DE (10 2020 000 466.0) 2020-01-25

[21] **3,166,313**
[13] A1
[51] **Int.Cl. A61C 13/00 (2006.01) G05B 19/4099 (2006.01) A61C 5/77 (2017.01)**
[25] EN
[54] **DENTAL MACHINING SYSTEM FOR PREDICTING THE MACHINING TIME FOR MANUFACTURING A DENTAL RESTORATION/APPLIANCE**
[54] **SYSTEME D'USINAGE DENTAIRE DESTINE A PREDIRE LE TEMPS D'USINAGE POUR LA FABRICATION D'UN APPAREIL/D'UNE RESTAURATION DENTAIRE**
[72] STEGER, SEBASTIAN, DE
[71] DENTSPLY SIRONA INC., US
[71] SIRONA DENTAL SYSTEMS GMBH, DE
[85] 2022-06-28
[86] 2021-01-29 (PCT/EP2021/052158)
[87] (WO2021/152125)
[30] EP (20154582.9) 2020-01-30

[21] **3,166,314**
[13] A1
[51] **Int.Cl. A23L 33/18 (2016.01) A23L 33/15 (2016.01) A23L 33/16 (2016.01) A23L 33/17 (2016.01) A23L 33/175 (2016.01) A23L 2/39 (2006.01) A23L 2/66 (2006.01) A61K 31/185 (2006.01) A61K 31/198 (2006.01) A61K 38/39 (2006.01)**
[25] EN
[54] **DIETARY SUPPLEMENT COMPOSITION COMPRISING COLLAGEN**
[54] **COMPOSITION DE COMPLEMENT ALIMENTAIRE COMPRENANT DU COLLAGENE**
[72] SEIDENSTICKER, KURT, US
[72] FRIESE, COREY, US
[72] COTE, KATIE, US
[72] CUTRI, CRISTINA, US
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2022-06-28
[86] 2021-02-02 (PCT/EP2021/052381)
[87] (WO2021/156229)
[30] US (62/969,960) 2020-02-04

[21] **3,166,323**
[13] A1
[51] **Int.Cl. H02J 9/06 (2006.01) H02J 1/00 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR UNINTERRUPTED POWER USING AN ARRAY OF ULTRA-CAPACITORS**
[54] **PROCEDE, SYSTEME ET PRODUIT PROGRAMME D'ORDINATEUR POUR UNE ALIMENTATION ININTERROMPUE A L'AIDE D'UN RESEAU D'ULTRA-CONDENSATEURS**
[72] MARZANO, DOMENIC P., US
[72] RUGH, ALEX R., US
[72] HAKE, JOSEPH L., US
[71] VELOCITY MAGNETICS, INC., US
[85] 2022-06-28
[86] 2021-02-19 (PCT/US2021/018732)
[87] (WO2021/168214)
[30] US (62/978,999) 2020-02-20
[30] US (63/107,826) 2020-10-30
[30] US (63/127,948) 2020-12-18

[21] **3,166,324**
[13] A1
[51] **Int.Cl. A61H 3/04 (2006.01) A61H 3/00 (2006.01)**
[25] EN
[54] **BODYWEIGHT UNLOADING LOCOMOTIVE DEVICE**
[54] **DISPOSITIF DE LOCOMOTION DE DECHARGEMENT DE POIDS CORPOREL**
[72] BURNS, RICHARD S., US
[72] BURNS, ANDREW J.D., US
[71] BURNS, RICHARD S., US
[71] BURNS, ANDREW J.D., US
[85] 2022-06-28
[86] 2021-01-27 (PCT/US2021/015335)
[87] (WO2021/154889)
[30] US (62/967,011) 2020-01-28

[21] **3,166,325**
[13] A1
[51] **Int.Cl. G07F 11/44 (2006.01)**
[25] EN
[54] **SOLID DOSAGE MEDICAMENT DISPENSER AND METHODS OF USE**
[54] **DISTRIBUTEUR DE MEDICAMENT A DOSAGE SOLIDE ET PROCEDES D'UTILISATION**
[72] ASSAD, ANDREW, US
[72] LIBRARO, LUCAS, US
[72] GONNOT, THOMAS, US
[72] CARO, JAHIR LEONARDO, US
[72] SOLOLA, OLUWADUROTMI, US
[72] MILLER, LEE, US
[71] VISIP, LLC, US
[85] 2022-06-28
[86] 2021-01-19 (PCT/US2021/013893)
[87] (WO2021/150483)
[30] US (62/964,257) 2020-01-22

[21] **3,166,327**
[13] A1
[51] **Int.Cl. A47G 27/02 (2006.01) A63C 19/04 (2006.01) E04F 15/22 (2006.01)**
[25] EN
[54] **THERAPY PLATFORM MULTI-LAYER ANTI-FATIGUE MATTING**
[54] **TAPIS ANTI-FATIGUE A MULTIPLES COUCHES A PLATE-FORME THERAPEUTIQUE**
[72] JOHNSON, PAUL R., US
[72] JOHNSON, ROBERT E., US
[71] JOHNSON TECHNOLOGIES CORPORATION, US
[85] 2022-06-28
[86] 2021-01-07 (PCT/US2021/012509)
[87] (WO2021/142126)
[30] US (16/736,790) 2020-01-07

[21] **3,166,328**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TGF-BETA INHIBITORS AND USE THEREOF**
[54] **INHIBITEURS DE TGF-BETA ET LEUR UTILISATION**
[72] KALRA, ASHISH, US
[72] SCHURPF, THOMAS, US
[72] FOGEL, ADAM, US
[72] BRUECKNER, CHRISTOPHER, US
[72] BUCKLER, ALAN, US
[72] MARTIN, CONSTANCE, US
[72] LEE-HOEFLICH, SI TUEN, US
[71] SCHOLAR ROCK, INC., US
[85] 2022-06-28
[86] 2021-01-11 (PCT/US2021/012969)
[87] (WO2021/142448)
[30] US (62/959,909) 2020-01-11
[30] US (62/981,083) 2020-02-25
[30] US (62/704,915) 2020-06-03
[30] US (62/705,134) 2020-06-12
[30] US (63/111,530) 2020-11-09

[21] **3,166,330**
[13] A1
[51] **Int.Cl. A01K 15/04 (2006.01) A01K 1/06 (2006.01)**
[25] EN
[54] **LIVESTOCK CHUTE WITH BOTH PARALLEL AND V-SQUEEZE CAPABILITY, A PULL-UP NECK EXTENDER AND A ROBUST HEAD GATE TRACK**
[54] **CAGE DE CONTENTION POUR BETAIL AYANT A LA FOIS UNE CAPACITE DE COMPRESSION EN PARALLELE ET EN V, PROLONGATEUR DE COU A HISSAGE ET PISTE POUR PORTE CORNADIS ROBUSTE**
[72] FIRTH, PHILIP MALCOLM, CA
[72] LANGRELL, STEPHEN ARTHUR, CA
[71] NORTHQUIP INC., CA
[85] 2022-06-29
[86] 2021-08-09 (PCT/CA2021/051101)
[87] (WO2022/099404)
[30] US (63/113,326) 2020-11-13

[21] **3,166,331**
[13] A1
[51] **Int.Cl. A61K 31/5355 (2006.01) A61P 25/24 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **SALTS AND CRYSTALLINE FORMS OF A TAAR1 AGONIST**
[54] **SELS ET FORMES CRISTALLINES D'UN AGONISTE DE TAAR1**
[72] GRAESER, KIRSTEN ANDREA, CH
[72] SCHWITTER, URS, CH
[72] STOWASSER, FRANK, CH
[72] TIXERONT, FLORENCE NICOLE ANTOINETTE, CH
[72] TRUSSARDI, RENE (DECEASED), XX
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-06-28
[86] 2021-03-17 (PCT/EP2021/056749)
[87] (WO2021/185878)
[30] EP (20164069.5) 2020-03-19

[21] **3,166,332**
[13] A1
[51] **Int.Cl. B25J 15/08 (2006.01)**
[25] EN
[54] **MECHANICAL FINGER FOR GRIPPER**
[54] **DOIGT MECANIQUE POUR DISPOSITIF DE PREHENSION**
[72] BABIN, VINCENT, CA
[72] GOSSELIN, CLEMENT, CA
[72] LALIBERTE, THIERRY, CA
[71] UNIVERSITE LAVAL, CA
[85] 2022-06-29
[86] 2021-01-22 (PCT/CA2021/050067)
[87] (WO2021/146811)
[30] US (62/964,851) 2020-01-23

[21] **3,166,333**
[13] A1
[51] **Int.Cl. A61B 34/30 (2016.01) B25J 9/00 (2006.01) B25J 19/06 (2006.01)**
[25] EN
[54] **MANUAL INSTRUMENT RETRACTOR FOR A ROBOTIC SURGERY SYSTEM**
[54] **ECARTEUR MANUEL D'INSTRUMENT POUR UN SYSTEME DE CHIRURGIE ROBOTISE**
[72] HOFFMAN, DANIEL, US
[72] MICHAEL, TYLER, US
[72] SHIPLEY, ABRAHAM, US
[71] TITAN MEDICAL INC., CA
[85] 2022-06-29
[86] 2020-11-04 (PCT/CA2020/051496)
[87] (WO2021/134124)
[30] US (16/731,600) 2019-12-31

[21] **3,166,334**
[13] A1
[51] **Int.Cl. A01D 34/00 (2006.01) A01D 69/00 (2006.01)**
[25] EN
[54] **RIDING LAWNMOWER**
[54] **TONDEUSE A GAZON AUTOPORTEE**
[72] WANG, ZHEN, CN
[72] LIU, QIAN, CN
[72] GAO, FAN, CN
[72] CHEN, XI, CN
[72] NIE, FANGJIE, CN
[72] YAMAOKA, TOSHINARI, CN
[72] DAI, CHENG, CN
[72] WU, RONG, CN
[71] NANJING CHERVON INDUSTRY CO., LTD., CN
[85] 2022-06-29
[86] 2020-01-10 (PCT/CN2020/071419)
[87] (WO2021/134826)
[30] CN (201911401855.4) 2019-12-31

[21] **3,166,335**
[13] A1
[51] **Int.Cl. C07C 59/74 (2006.01) C07C 47/225 (2006.01) C07C 47/42 (2006.01) C07C 57/26 (2006.01) C10M 129/40 (2006.01) C11C 3/00 (2006.01)**
[25] EN
[54] **LOW SULFUR DIESEL BLOCKAGE INHIBITOR, PREPARATION METHOD THEREFOR AND USE THEREOF**
[54] **INHIBITEUR DE BLOCAGE DIESEL A BASSE TENEUR EN SOUFRE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] LI, LANPENG, CN
[72] CAO, CHANGHAI, CN
[72] CHENG, JIN, CN
[72] LI, XIUZHENG, CN
[72] WANG, YIDI, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC DALIAN RESEARCH INSTITUTE OF PETROLEUM AND PETROCHEMICALS CO., LTD., CN
[85] 2022-06-29
[86] 2019-12-31 (PCT/CN2019/130789)
[87] (WO2021/134602)

[21] **3,166,337**
[13] A1
[51] **Int.Cl. C12Q 1/70 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DETECTING SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-COV-2), INFLUENZA A AND INFLUENZA B**
[54] **COMPOSITIONS ET METHODES DE DETECTION DU CORONAVIRUS 2 DU SYNDROME RESPIRATOIRE AIGU SEVERE (SRAS-COV-2), DE LA GRIPPE A ET DE LA GRIPPE B**
[72] FONTECHA, MARCEL R., US
[72] HEIL, MARINTHA, US
[72] MANGIPUDI, KALYANI, US
[72] MANOHAR, CHITRA, US
[72] RAVIRALA, RAMANI SADANANDAM, US
[72] SANTINI, CHRISTOPHER DAVID, US
[72] SPIER, EUGENE, US
[72] SUN, JINGTAO, US
[72] TAM, THANH, US
[72] TRUONG, HUAN, US
[72] YEE, MICHELLE ELIZABETH, US
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2022-06-29
[86] 2021-03-08 (PCT/EP2021/055748)
[87] (WO2021/180631)
[30] US (62/987,066) 2020-03-09
[30] US (63/075,579) 2020-09-08
[30] US (63/122,869) 2020-12-08

[21] **3,166,338**
[13] A1
[51] **Int.Cl. G06T 7/70 (2017.01) G06T 7/33 (2017.01) G06T 7/80 (2017.01)**
[25] EN
[54] **OBJECT POSITIONING METHOD AND APPARATUS, AND COMPUTER SYSTEM**
[54] **PROCEDE ET APPAREIL DE POSITIONNEMENT D'OBJET, ET SYSTEME INFORMATIQUE**
[72] LIU, SHUIQING, CN
[72] YANG, XIAN, CN
[72] SUN, HAO, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-29
[86] 2020-08-28 (PCT/CN2020/111953)
[87] (WO2021/135321)
[30] CN (201911396145.7) 2019-12-30

[21] **3,166,339**
[13] A1
[51] **Int.Cl. B01F 27/85 (2022.01) B01F 27/112 (2022.01)**
[25] EN
[54] **DOUBLE SHAFT PADDLE MIXER AND ARRANGEMENT AND METHODS FOR PRODUCING PASTE**
[54] **MELANGEUR A PALETTES A DOUBLE ARBRE ET AGENCEMENT ET PROCEDES DE PRODUCTION DE PATE**
[72] KAUPPI, JANNE, FI
[72] KOPONEN, VESA, FI
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2022-06-28
[86] 2019-12-31 (PCT/FI2019/050937)
[87] (WO2021/136871)

[21] **3,166,340**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1473 (2006.01) G01N 33/49 (2006.01)**
[25] EN
[54] **MEMBRANE SEALING FOR A PHYSIOLOGICAL SENSOR**
[54] **SCELLEMENT DE MEMBRANE POUR UN CAPTEUR PHYSIOLOGIQUE**
[72] HANSEN, STEIN IVAR, NO
[71] SENSOCURE AS, NO
[85] 2022-06-29
[86] 2021-02-03 (PCT/EP2021/052580)
[87] (WO2021/175531)
[30] GB (2003198.5) 2020-03-05

[21] **3,166,341**
[13] A1
[51] **Int.Cl. G06Q 10/04 (2012.01)**
[25] EN
[54] **DELIVERY PATH PLANNING METHOD AND SYSTEM TAKING ORDER AGGREGATION DEGREE INTO CONSIDERATION**
[54] **PROCEDE ET SYSTEME DE PLANIFICATION D'ITINERAIRE DE LIVRAISON PRENANT EN CONSIDERATION UN DEGRE D'AGREGATION DE COMMANDES**
[72] QI, CHENGLIANG, CN
[72] CAO, HUI, CN
[72] YIN, MENGRUI, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-29
[86] 2020-07-30 (PCT/CN2020/105914)
[87] (WO2021/135208)
[30] CN (201911425008.1) 2019-12-31

[21] **3,166,342**
[13] A1
[51] **Int.Cl. G06F 16/332 (2019.01)**
[25] EN
[54] **AUTOMATIC QUESTION SETTING METHOD, APPARATUS AND SYSTEM**
[54] **PROCEDE, APPAREIL ET SYSTEME DE PREPARATION AUTOMATIQUE DE QUESTIONS**
[72] CHEN, YILIN, CN
[72] NI, HEQIANG, CN
[72] ZHANG, BINGBING, CN
[72] XU, YAO, CN
[72] LIANG, SHIWEN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-29
[86] 2020-08-28 (PCT/CN2020/111954)
[87] (WO2021/135322)
[30] CN (201911400187.3) 2019-12-30

[21] **3,166,343**
[13] A1
[51] **Int.Cl. H02M 3/155 (2006.01) H02J 7/00 (2006.01)**
[25] EN
[54] **TERMINAL, POWER SUPPLY METHOD FOR TERMINAL, AND CHARGING AND DISCHARGING MANAGEMENT CIRCUIT**
[54] **TERMINAL, SON PROCEDE D'ALIMENTATION ELECTRIQUE, ET CIRCUIT DE GESTION DE CHARGE ET DE DECHARGE**
[72] LIU, XINYU, CN
[72] ZHANG, XIALING, CN
[72] CHENG, GANG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2022-06-29
[86] 2020-12-18 (PCT/CN2020/137581)
[87] (WO2021/135987)
[30] CN (202010006218.3) 2020-01-03
[30] CN (202010286994.3) 2020-04-13

[21] **3,166,344**
[13] A1
[51] **Int.Cl. G06Q 10/08 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MAKING CALL ON THE BASIS OF ORDER**
[54] **PROCEDE ET SYSTEME D'ETABLISSEMENT D'UN APPEL SUR LA BASE D'UNE COMMANDE**
[72] QIU, HUIHUI, CN
[72] NI, HEQIANG, CN
[72] LI, BIN, CN
[72] BAI, YUN, CN
[72] LI, BAOJUN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-29
[86] 2020-08-28 (PCT/CN2020/111942)
[87] (WO2021/135317)
[30] CN (201911396164.X) 2019-12-30

[21] **3,166,345**
[13] A1
[51] **Int.Cl. G06F 3/0484 (2022.01) G10L 21/0216 (2013.01) H04R 25/00 (2006.01)**
[25] EN
[54] **HEARING AID SYSTEMS AND METHODS**
[54] **SYSTEMES DE PROTHESE AUDITIVE ET PROCEDES**
[72] WEXLER, YONATAN, IL
[72] SHASHUA, AMNON, IL
[71] ORCAM TECHNOLOGIES LTD., IL
[85] 2022-06-28
[86] 2020-12-31 (PCT/IB2020/001055)
[87] (WO2021/136962)
[30] US (62/956,744) 2020-01-03
[30] US (62/970,726) 2020-02-06
[30] US (63/050,890) 2020-07-13

[21] **3,166,346**
[13] A1
[51] **Int.Cl. C07K 16/22 (2006.01) A61K 39/395 (2006.01)**
[25] EN
[54] **ANTI-ANGPTL3 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-ANGPTL3 ET SON UTILISATION**
[72] FU, YAYUAN, CN
[72] XU, YINGXIA, CN
[72] LIN, BING, CN
[72] TAO, WEIKANG, CN
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[85] 2022-06-29
[86] 2021-01-22 (PCT/CN2021/073239)
[87] (WO2021/147984)
[30] CN (202010073192.4) 2020-01-22

[21] **3,166,347**
[13] A1
[51] **Int.Cl. G06T 15/20 (2011.01)**
[25] EN
[54] **VIDEO GENERATION METHOD AND APPARATUS, AND COMPUTER SYSTEM**
[54] **PROCEDE ET APPAREIL DE GENERATION DE VIDEO, ET SYSTEME INFORMATIQUE**
[72] HUANG, MINMIN, CN
[72] DONG, BANGFA, CN
[72] YANG, XIAN, CN
[71] 10353744 CANADA LTD., CA
[85] 2022-06-29
[86] 2020-08-28 (PCT/CN2020/111952)
[87] (WO2021/135320)
[30] CN (201911396267.6) 2019-12-30

[21] **3,166,348**
[13] A1
[51] **Int.Cl. E04B 9/12 (2006.01)**
[25] EN
[54] **A SECONDARY PROFILE CONNECTOR FOR A SUSPENDED CEILING SYSTEM**
[54] **CONNECTEUR DE PROFILE SECONDAIRE POUR SYSTEME DE PLAFOND SUSPENDU**
[72] NILSSON, THOMAS, SE
[71] SAINT-GOBAIN ECOPHON AB, SE
[85] 2022-06-29
[86] 2021-01-29 (PCT/EP2021/052169)
[87] (WO2021/156151)
[30] EP (20155420.1) 2020-02-04

[21] **3,166,349**
[13] A1
[51] **Int.Cl. A61B 5/263 (2021.01) A61B 5/268 (2021.01) A61B 5/27 (2021.01) A61N 1/04 (2006.01)**
[25] EN
[54] **CONDUCTIVE THERMOPLASTIC ELASTOMER ELECTRODES, AND METHOD OF MANUFACTURING SUCH ELECTRODES**
[54] **ELECTRODES CONDUCTRICES A BASE D'ELASTOMERES THERMOPLASTIQUES ET PROCEDE DE FABRICATION DE TELLES ELECTRODES**
[72] CHAHINE, TONY, CA
[72] ALIZADEH-MEGHRAZI, MILAD, CA
[72] ESKANDARIAN, LADAN, CA
[72] MAHNAM, AMIN, CA
[72] MOINEAU, BASTIEN, CA
[72] ROSTAMI, SAHAR GOLMOHAMMADI, CA
[72] LEIPHART, CHRISTOPHER ROBIN, CA
[71] MYANT INC., CA
[85] 2022-06-29
[86] 2020-12-30 (PCT/CA2020/051809)
[87] (WO2021/134131)
[30] US (62/955,546) 2019-12-31

[21] **3,166,351**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **TRANSCATHETER VALVE PROSTHESIS**
[54] **PROTHESE VALVULAIRE TRANSCATHETER**
[72] WANG, WILL, FR
[72] NASR, MALEK, FR
[72] BORTLEIN, GEORG, FR
[72] OFFERMAN, GARRETT, FR
[72] MADRID, GILBERT, FR
[72] ROTHMAN, MARTIN, FR
[72] BALKE, GLENN, FR
[72] DIEP, ERIC, FR
[71] HIGHLIFE SAS, FR
[85] 2022-06-28
[86] 2020-12-18 (PCT/IB2020/001065)
[87] (WO2021/140355)
[30] US (16/736,116) 2020-01-07

[21] **3,166,353**
[13] A1
[51] **Int.Cl. C04B 7/38 (2006.01) C04B 7/44 (2006.01) C04B 7/52 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING CEMENT COMPRISING A SUPPLEMENTARY CEMENTITIOUS MATERIAL, AND CEMENT OBTAINABLE THEREBY**
[54] **PROCEDES DE PRODUCTION DE CIMENT COMPRENANT UN MATERIAU CIMENTAIRE SUPPLEMENTAIRE, ET CIMENT POUVANT ETRE OBTENU PAR CE PROCEDE**
[72] DOSSING, LASSE NORBYE, DK
[72] RASMUSSEN, MARTIN HAGSTED, DK
[71] CEMGREEN APS, DK
[85] 2022-06-29
[86] 2020-11-11 (PCT/EP2020/081722)
[87] (WO2021/104866)
[30] EP (19211456.9) 2019-11-26

[21] **3,166,354**
[13] A1
[51] **Int.Cl. A23L 2/52 (2006.01) A61K 31/357 (2006.01) A61K 31/522 (2006.01)**
[25] EN
[54] **ENHANCED CAFFEINATED BEVERAGE COMPOSITION**
[54] **COMPOSITION DE BOISSON CAFEINEE AMELIOREE**
[72] LOPEZ, HECTOR L., US
[72] ZIEGENFUSS, TIM N., US
[72] TITLOW, MATTHEW, US
[71] ORTHO-NUTRA, LLC, US
[85] 2022-06-29
[86] 2020-10-30 (PCT/US2020/058138)
[87] (WO2021/137926)
[30] US (62/955,261) 2019-12-30

[21] **3,166,356**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61K 39/00 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **NEW MESOTHELIN SPECIFIC CHIMERIC ANTIGEN RECEPTORS (CAR) FOR SOLID TUMORS CANCER IMMUNOTHERAPY**
[54] **NOUVEAUX RECEPTEURS D'ANTIGENES CHIMERIQUES SPECIFIQUES DE LA MESOTHELINE (CAR) POUR L'IMMUNOTHERAPIE ANTICANCEREUSE DE TUMEURS SOLIDES**
[72] SCHIFFER-MANNIOUI, CECILE, FR
[72] DUCHATEAU, PHILIPPE, FR
[71] CELLECTIS, FR
[85] 2022-06-29
[86] 2020-12-22 (PCT/EP2020/087673)
[87] (WO2021/130250)
[30] DK (PA 2019 70835) 2019-12-23

[21] **3,166,359**
[13] A1
[51] **Int.Cl. C09D 163/00 (2006.01) C09D 5/24 (2006.01) C09D 5/32 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC INTERFERENCE SHIELDING MATERIALS, DEVICES, AND METHODS OF MANUFACTURE THEREOF**
[54] **MATERIAUX DE PROTECTION CONTRE LES INTERFERENCES ELECTROMAGNETIQUES, DISPOSITIFS ET PROCEDES DE FABRICATION DE CEUX-CI**
[72] KANER, RICHARD B., US
[72] EL-KADY, MAHER F., US
[72] KAVANAUGH, JACK, US
[72] LAINE, SCOTT, US
[71] NANOTECH ENERGY, INC., US
[85] 2022-06-29
[86] 2020-12-31 (PCT/US2020/067727)
[87] (WO2021/138598)
[30] US (62/957,030) 2020-01-03
[30] US (62/957,035) 2020-01-03

[21] **3,166,362**
[13] A1
[51] **Int.Cl. A63B 69/00 (2006.01) A63B 21/00 (2006.01)**
[25] EN
[54] **HANDSTAND TRAINING DEVICE**
[54] **DISPOSITIF D'APPRENTISSAGE DE L'APPUI TENDU RENVERSE**
[72] ANDRESEN, HEDDIES, DE
[71] PROHANDSTAND, LLC, US
[85] 2022-06-29
[86] 2020-12-29 (PCT/DE2020/101087)
[87] (WO2021/139851)
[30] DE (10 2020 100 161.4) 2020-01-07

[21] **3,166,364**
[13] A1
[51] **Int.Cl. A61K 39/085 (2006.01) A61P 31/04 (2006.01) C07K 14/31 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE PREVENTION OF S. AUREUS INFECTION**
[54] **COMPOSITIONS ET PROCEDES POUR LA PREVENTION D'UNE INFECTION A S. AUREUS**
[72] RIBEIRO, CASSIE, FR
[72] ROTTMAN, MARTIN, FR
[72] GAILLARD, JEAN-LOUIS, FR
[71] ANTAGONIS, FR
[71] UNIVERSITE DE VERSAILLES-ST QUENTIN EN YVELINES, FR
[71] L'ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR
[85] 2022-06-29
[86] 2020-12-31 (PCT/EP2020/088082)
[87] (WO2021/136835)
[30] EP (19306797.2) 2019-12-31

[21] **3,166,367**
[13] A1
[51] **Int.Cl. A22C 11/02 (2006.01)**
[25] EN
[54] **APPARATUS FOR PROCESSING A FOODSTUFF MATERIAL**
[54] **DISPOSITIF ET PROCEDE POUR LA TRANSFORMATION D'UNE PREPARATION ALIMENTAIRE**
[72] KNODEL, PETER, DE
[72] WAGNER, MITJA, DE
[72] WESEMANN, FRITJOF, DE
[72] WALGER, JOHANN, DE
[72] BRECHT, OLIVER, DE
[71] VEMAG MASCHINENBAU GMBH, DE
[71] FREDDY HIRSCH GROUP AG, CH
[85] 2022-06-29
[86] 2021-01-11 (PCT/EP2021/050388)
[87] (WO2021/140245)
[30] EP (20151030.2) 2020-01-09

[21] **3,166,368**
[13] A1
[51] **Int.Cl. E05B 47/00 (2006.01) H02J 7/00 (2006.01) H02J 9/06 (2006.01)**
[25] EN
[54] **DOOR ASSEMBLY WITH HIGH AND LOW VOLTAGE ELECTRICAL POWER SUPPLIES FOR INTEGRATED ELECTRIC DEVICES AND METHODS OF OPERATING THE DOOR**
[54] **ENSEMBLE PORTE AVEC ALIMENTATIONS ELECTRIQUES HAUTE ET BASSE TENSION POUR DISPOSITIFS ELECTRIQUES INTEGRES ET PROCEDES DE FONCTIONNEMENT DE LA PORTE**
[72] SORICE, CORY J., US
[72] SWARTZMILLER, STEVEN B., US
[72] BODURKA, ALEX, US
[71] MASONITE CORPORATION, US
[85] 2022-06-29
[86] 2021-01-06 (PCT/US2021/012280)
[87] (WO2021/141967)
[30] US (62/957,413) 2020-01-06
[30] US (63/064,045) 2020-08-11
[30] US (63/087,520) 2020-10-05

[21] **3,166,369**
[13] A1
[51] **Int.Cl. B03D 1/14 (2006.01) B01J 10/00 (2006.01) C02F 1/32 (2006.01) C02F 1/72 (2006.01) C02F 1/78 (2006.01) C02F 3/12 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR TREATING FLUID AND FLOTATION ARRANGEMENT**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT DE FLUIDE ET AGENCEMENT DE FLOTTATION**
[72] KAUPPI, JANNE, FI
[71] METSO OUTOTEC FINLAND OY, FI
[85] 2022-06-29
[86] 2019-12-31 (PCT/FI2019/050935)
[87] (WO2021/136870)

[21] **3,166,371**
[13] A1
[51] **Int.Cl. G01N 1/28 (2006.01) G01N 27/62 (2021.01) G01N 27/64 (2006.01)**
[25] EN
[54] **USER EXCHANGEABLE ABLATION CELL INTERFACE TO ALTER LA-ICP-MS PEAK WIDTHS**
[54] **INTERFACE DE CELLULE D'ABLATION ECHANGEABLE PAR L'UTILISATEUR POUR MODIFIER LES LARGEURS DE PIC DANS LA SPECTROMETRIE DE MASSE PAR PLASMA A COUPLAGE INDUCTIF (ICP-MS) LASER**
[72] O'CONNOR, CIARAN J., US
[72] SUMMERFIELD, LEIF C., US
[71] ELEMENTAL SCIENTIFIC LASERS, LLC, US
[85] 2022-06-29
[86] 2021-01-11 (PCT/US2021/012920)
[87] (WO2021/142423)
[30] US (62/959,865) 2020-01-10

[21] **3,166,373**
[13] A1
[51] **Int.Cl. B65D 90/58 (2006.01) B65D 43/00 (2006.01) B65D 90/62 (2006.01) B65D 90/66 (2006.01) B65F 1/16 (2006.01)**
[25] EN
[54] **CONTAINER LIDS**
[54] **COUVERCLES DE CONTENANT**
[72] HAAG, LINDSAY MARK, CA
[72] NEUFELD, CORNELIO, CA
[72] FEHR, JAUN, CA
[72] GUENTHER, JOHAN, CA
[71] ENVIRONMENTAL METAL WORKS LTD., CA
[85] 2022-06-29
[86] 2020-11-27 (PCT/IB2020/061242)
[87] (WO2022/112831)

[21] **3,166,374**
[13] A1
[51] **Int.Cl. C12N 15/86 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **IMPROVED AAV-ABCD1 CONSTRUCTS AND USE FOR TREATMENT OR PREVENTION OF ADRENOLEUKODYSTROPHY (ALD) AND/OR ADRENOMYELONEUROPATHY (AMN)**
[54] **CONSTRUCTIONS AMELIOREES DE VAA-ABCD1 ET LEUR UTILISATION POUR LE TRAITEMENT OU LA PREVENTION DE L'ADRENOLEUCODYSTROPHIE (ALD) ET/OU DE L'ADRENOMYELONEUROPATHIE (AMN)**
[72] CLARK, SEAN, US
[72] KOZARSKY, KAREN, US
[72] GUVEN-OZKAN, TUGBA, US
[72] TRETIAKOVA, ANNA, US
[71] SWANBIO THERAPEUTICS LIMITED, GB
[85] 2022-06-29
[86] 2020-12-31 (PCT/US2020/067664)
[87] (WO2021/138559)
[30] US (62/955,667) 2019-12-31

[21] **3,166,375**
[13] A1
[25] EN
[54] **TRAFFIC FLOW CLASSIFICATION USING MACHINE LEARNING**
[54] **CLASSIFICATION DE FLUX DE TRAFIC PAR APPRENTISSAGE AUTOMATIQUE**
[72] VASUDEVAN, SRIRAM, US
[72] JAIN, KAUSTUBH, US
[72] SU, CHI-JIUN, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-06-29
[86] 2020-12-22 (PCT/US2020/066665)
[87] (WO2021/138157)
[30] US (62/955,923) 2019-12-31

[21] **3,166,377**
[13] A1
[51] **Int.Cl. G01K 13/00 (2021.01) G01K 1/024 (2021.01) A47J 43/00 (2006.01)**
[25] EN
[54] **FOOD THERMOMETER AND METHOD OF USING THEREOF**
[54] **THERMOMETRE ALIMENTAIRE ET SON PROCEDE D'UTILISATION**
[72] NIVALA, TEEMU, GB
[72] CRUZ, JOSEPH, US
[71] APPTION LABS LIMITED, GB
[85] 2022-06-29
[86] 2020-12-23 (PCT/IB2020/062410)
[87] (WO2021/137118)
[30] US (16/734,354) 2020-01-05

[21] **3,166,379**
[13] A1
[51] **Int.Cl. A61K 31/426 (2006.01)**
[25] EN
[54] **INHIBITORS OF GLUTATHIONE S-TRANSFERASES (GSTS) AND NAD(P)H:QUINONE OXIDOREDUCTASE 1 (NQO1), PHARMACEUTICAL COMPOSITIONS, AND USES IN MANAGING CANCER**
[54] **INHIBITEURS DE GLUTATHION S-TRANSFERASES (GST) ET DE NAD(P)H:QUINONE OXYDOREDUCTASE 1 (NQO1), COMPOSITIONS PHARMACEUTIQUES ET UTILISATIONS DANS LA GESTION DU CANCER**
[72] YE, KEQIANG, US
[71] EMORY UNIVERSITY, US
[85] 2022-06-29
[86] 2021-01-21 (PCT/US2021/014418)
[87] (WO2021/150756)
[30] US (62/964,013) 2020-01-21

[21] **3,166,382**
[13] A1
[51] **Int.Cl. A61B 5/097 (2006.01) A61B 5/08 (2006.01) A61B 5/083 (2006.01) A61B 5/1455 (2006.01) G01N 33/497 (2006.01)**
[25] EN
[54] **USE OF CO VALUES IN SMOKING CESSATION**
[54] **USAGE DES VALEURS DE CO DANS LE SEVRAGE TABAGIQUE**
[72] JAMESON, ALLEN, US
[72] UTLEY, DAVID S., US
[72] HALL, MATTHEW, GB
[71] MCNEIL AB, SE
[85] 2022-06-29
[86] 2020-12-23 (PCT/US2020/066833)
[87] (WO2021/138193)
[30] US (62/955,555) 2019-12-31

[21] **3,166,384**
[13] A1
[51] **Int.Cl. E21B 33/04 (2006.01) E21B 17/02 (2006.01)**
[25] EN
[54] **SEAL THAT RETAINS THE ELECTRICAL CONDUCTORS THAT CROSS THROUGH THE WELLHEAD AND DEVICE COMPRISING THE SAME**
[54] **JOINT ENTOURANT LES CONDUCTEURS ELECTRIQUES QUI TRAVERSENT LA TETE DE PUITS ET DISPOSITIF LE COMPRENANT**
[72] TOVAR CARDONA, SANTIAGO, CO
[71] TOVAR CARDONA, SANTIAGO, CO
[85] 2022-06-29
[86] 2020-12-28 (PCT/IB2020/062499)
[87] (WO2021/137141)
[30] CO (NC2019/0015116) 2019-12-31

[21] **3,166,385**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01)**
[25] EN
[54] **ANTI-TREM2 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-TREM2 ET LEURS PROCEDES D'UTILISATION**
[72] DENNIS, MARK S., US
[72] GU, ZHENYU, US
[72] KARIOLIS, MIHALIS S., US
[72] MAHON, CATHAL S., US
[72] MONROE, KATHRYN M., US
[72] PARK, JOSHUA I., US
[72] PROROK, RACHEL, US
[72] SILVERMAN, ADAM P., US
[72] VAN LENGERICH, BETTINA, US
[71] DENALI THERAPEUTICS INC., US
[85] 2022-06-29
[86] 2021-01-13 (PCT/US2021/013200)
[87] (WO2021/146256)
[30] US (62/960,663) 2020-01-13
[30] US (63/070,728) 2020-08-26
[30] US (63/091,717) 2020-10-14

[21] **3,166,387**
[13] A1
[51] **Int.Cl. A61K 31/138 (2006.01) A61K 31/435 (2006.01) A61K 31/46 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CORONAVIRUS**
[54] **METHODES DE TRAITEMENT DU CORONAVIRUS**
[72] STEINER, MITCHELL S., US
[72] BARNETTE, KESTER GARY, US
[71] VERU INC., US
[85] 2022-06-29
[86] 2021-04-05 (PCT/US2021/025807)
[87] (WO2021/203100)
[30] US (63/004,781) 2020-04-03
[30] US (63/145,886) 2021-02-04

[21] **3,166,389**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/903 (2019.01) G06F 40/00 (2020.01)**
[25] EN
[54] **MACHINE LEARNING OF RESPONSE SELECTION TO STRUCTURED DATA INPUT INCLUDING MOMENTUM CLASSIFICATION**
[54] **APPRENTISSAGE AUTOMATIQUE DE SELECTION DE REPONSE A UNE ENTREE DE DONNEES STRUCTUREES COMPRENANT UNE CLASSIFICATION DE MOMENT**
[72] LEVY, JOSHUA HOWARD, US
[72] TAYLOR, ALEXA BREANN EUN, US
[72] REED, COKE, US
[71] OJO LABS, INC., US
[85] 2022-06-29
[86] 2020-12-28 (PCT/US2020/067095)
[87] (WO2021/138227)
[30] US (62/956,166) 2019-12-31
[30] US (17/134,481) 2020-12-27

[21] **3,166,390**
[13] A1
[51] **Int.Cl. G01N 29/44 (2006.01) G05B 13/02 (2006.01) G05B 23/02 (2006.01) G06F 7/02 (2006.01) G06F 17/11 (2006.01) G06N 3/02 (2006.01) G06N 5/02 (2006.01)**
[25] EN
[54] **METHODS, SYSTEMS AND APPARATUS FOR GENERATING CHEMICAL DATA SEQUENCES USING NEURAL NETWORKS FOR DE NOVO CHEMICAL FORMULATIONS**
[54] **METHODES, SYSTEMES ET APPAREIL PERMETTANT LA GENERATION DE SEQUENCES DE DONNEES CHIMIQUES A L'AIDE DE RESEAUX NEURONAUX DESTINEE A DES FORMULATIONS CHIMIQUES DE NOVO**
[72] STEC, ALEXANDER ANTHONY, US
[72] SYED, YAHYA MUHAMMAD, US
[72] HE, QIJIAN, US
[71] POTION AI, INC., US
[85] 2022-06-29
[86] 2021-01-26 (PCT/US2021/015108)
[87] (WO2021/154740)
[30] US (62/966,409) 2020-01-27

[21] **3,166,394**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR MULTI-CLIENT CONTENT DELIVERY**
[54] **SYSTEMES ET PROCEDES DE DISTRIBUTION DE CONTENU MULTI-CLIENT**
[72] GIACALONE, NATHAN, US
[72] MCCULLOUGH, RYAN, US
[72] REDDY, SUMANTH, US
[72] WARD, BRANDON, US
[72] BUSCH, ANDREW, US
[71] DRAFTKINGS, INC., US
[85] 2022-06-29
[86] 2020-12-30 (PCT/US2020/067458)
[87] (WO2021/138416)
[30] US (16/732,004) 2019-12-31

[21] **3,166,395**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) B01L 9/00 (2006.01) G01N 1/31 (2006.01)**
[25] EN
[54] **AUTOMATED STAINING SYSTEM AND REACTION CHAMBER**
[54] **SYSTEME DE COLORATION AUTOMATISE ET CHAMBRE DE REACTION**
[72] SHAH, AMIT D., US
[72] WEBSTER, SCOTT, US
[72] FLORES, CRISTINA R., US
[72] CHENG, CHEN YU, TW
[72] LIN, CHIA HSIEN, TW
[72] CHUANG, CHIH SHUN, TW
[72] BOOKER, NICK JOHN, AU
[72] WATKINS, ANDREW DOUGLAS, AU
[72] BARTEL, REBECCA JEAN, AU
[72] HENDERSON, CHESTER JOHN, AU
[71] SAKURA FINETEK USA, INC., US
[85] 2022-06-29
[86] 2020-12-31 (PCT/US2020/067754)
[87] (WO2021/138617)
[30] US (62/956,015) 2019-12-31

[21] **3,166,396**
[13] A1
[51] **Int.Cl. G06Q 50/04 (2012.01)**
[25] EN
[54] **TOTAL LOGGING SYSTEM**
[54] **SYSTEME DE JOURNALISATION TOTALE**
[72] KAWASAKI, KOJI, JP
[72] OGATA, YOSHITAKA, JP
[72] KAKUDA, DAISUKE, JP
[72] OKADA YOSHIAKI, JP
[71] AIREX CO., LTD., JP
[85] 2022-06-29
[86] 2021-02-08 (PCT/JP2021/004576)
[87] (WO2021/161956)
[30] JP (2020-022448) 2020-02-13
[30] JP (2020-025213) 2020-02-18

[21] **3,166,398**
[13] A1
[51] **Int.Cl. G06F 17/00 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ASSISTING INDIVIDUALS IN A BEHAVIORAL-CHANGE PROGRAM**
[54] **SYSTEMES ET PROCEDES D'AIDE A DES INDIVIDUS DANS UN PROGRAMME DE CHANGEMENT COMPORTEMENTAL**
[72] CHANCELLOR, JOE, US
[72] DOTSON, LAURA, US
[72] JOSHI, ANEESH, CA
[72] BUNDICK, LINDA, US
[72] UTLEY, DAVID S., US
[72] BALBIERZ, DANIEL, US
[72] VAIDYANATHAN, RAJIV, US
[72] JAMESON, ALLEN, US
[71] CILAG GMBH INTERNATIONAL, CH
[85] 2022-06-29
[86] 2020-12-30 (PCT/US2020/067530)
[87] (WO2021/138464)
[30] US (62/955,214) 2019-12-30
[30] US (62/955,219) 2019-12-30

[21] **3,166,402**
[13] A1
[51] **Int.Cl. C07C 273/16 (2006.01) B01D 53/58 (2006.01) C07C 273/04 (2006.01)**
[25] EN
[54] **AMMONIA REMOVAL FROM UREA FINISHING**
[54] **ELIMINATION D'AMMONIAC AU STADE FINAL DE LA PRODUCTION D'UREE**
[72] PATIL, RAHUL, NL
[72] MANIC, BRANISLAV, NL
[72] SIMONS, PETRUS ANNA MARIA ROBERTUS, NL
[71] STAMICARBON B.V., NL
[85] 2022-06-29
[86] 2020-12-30 (PCT/NL2020/050825)
[87] (WO2021/137700)
[30] EP (19220059.0) 2019-12-30

[21] **3,166,407**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **MEANS AND METHOD FOR MODULATING IMMUNE CELL ENGAGING EFFECTS**
[54] **MOYENS ET PROCEDE PERMETTANT DE MODULER LES EFFETS D'ENGAGEMENT DE CELLULES IMMUNITAIRES**
[72] VAN LOO, PIETER FOKKO, NL
[72] THROSBY, MARK, NL
[71] MERUS N.V., NL
[85] 2022-06-29
[86] 2021-01-28 (PCT/NL2021/050051)
[87] (WO2021/154073)
[30] NL (2024786) 2020-01-29

[21] **3,166,408**
[13] A1
[51] **Int.Cl. B65G 47/74 (2006.01) B01L 3/00 (2006.01) B41J 3/44 (2006.01) G01N 1/31 (2006.01) G01N 35/04 (2006.01)**
[25] EN
[54] **AUTOMATED STAINING SYSTEM AND REACTION CHAMBER**
[54] **SYSTEME DE COLORATION AUTOMATISE ET CHAMBRE DE REACTION**
[72] SHAH, AMIT D., US
[72] WEBSTER, SCOTT, US
[72] BOOKER, NICHOLAS J., AU
[72] WATKINS, ANDREW, AU
[72] HENDERSON, CHESTER, AU
[72] BARTEL, REBECCA J., AU
[71] SAKURA FINETEK U.S.A., INC., US
[85] 2022-06-29
[86] 2020-12-31 (PCT/US2020/067736)
[87] (WO2021/138606)
[30] US (62/956,015) 2019-12-31

[21] **3,166,414**
[13] A1
[51] **Int.Cl. B65G 47/46 (2006.01) B65G 13/02 (2006.01) B65G 13/10 (2006.01) B65G 43/08 (2006.01) B62D 63/02 (2006.01)**
[25] EN
[54] **PARCEL TRANSFER SYSTEM**
[54] **SYSTEME DE TRANSFERT DE COLIS**
[72] FLEMING, MICHAEL THOMAS, US
[72] SCHMIT, ROBERTUS ARNOLDUS ADRIANUS, US
[71] MATERIAL HANDLING SYSTEMS, INC., US
[85] 2022-06-29
[86] 2021-01-06 (PCT/US2021/012324)
[87] (WO2021/141998)
[30] US (62/957,633) 2020-01-06

[21] **3,166,415**
[13] A1
[51] **Int.Cl. A61B 17/122 (2006.01) A61B 17/08 (2006.01) A61B 17/128 (2006.01)**
[25] EN
[54] **SYSTEM AND DEVICE FOR TREATING TISSUE**
[54] **SYSTEME ET DISPOSITIF DE TRAITEMENT DE TISSU**
[72] SAENZ VILLALOBOS, GONZALO JOSE, CR
[72] CALVO CAMACHO, DANIEL, CR
[72] BERENZON, RAFAEL, CR
[72] RYAN, SHAWN, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2022-06-29
[86] 2020-12-16 (PCT/US2020/065309)
[87] (WO2021/216132)
[30] US (16/856,890) 2020-04-23

[21] **3,166,417**
[13] A1
[51] **Int.Cl. H04L 27/00 (2006.01)**
[25] EN
[54] **COMPENSATING FOR FREQUENCY-DEPENDENT I-Q PHASE IMBALANCE**
[54] **COMPENSATION DU DESEQUILIBRE DE PHASE I-Q DEPENDANT DE LA FREQUENCE**
[72] BECKER, NEAL D., US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-06-29
[86] 2020-12-21 (PCT/US2020/066338)
[87] (WO2021/138104)
[30] US (16/731,539) 2019-12-31

[21] **3,166,419**
[13] A1
[51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **BANDWIDTH ALLOCATION USING MACHINE LEARNING**
[54] **ATTRIBUTION DE LARGEUR DE BANDE A L'AIDE D'UN APPRENTISSAGE MACHINE**
[72] HU, BIN, US
[72] TANG, YEQING, US
[72] ROY, RAJARSHI, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2022-06-29
[86] 2020-12-22 (PCT/US2020/066522)
[87] (WO2021/138133)
[30] US (16/732,252) 2019-12-31

[21] **3,166,420**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01) C12N 5/071 (2010.01) A61K 45/00 (2006.01) C07H 21/04 (2006.01) C12N 5/16 (2006.01) C12N 15/00 (2006.01)**
[25] EN
[54] **IL2 ORTHOLOGS AND METHODS OF USE**
[54] **ORTHOLOGUES DE L'IL-2 ET PROCEDES D'UTILISATION**
[72] PENAFLOR ASPURIA, PAUL-JOSEPH, US
[72] LUPARDUS, PATRICK J., US
[72] MURPHY, RICHARD B., US
[72] OFT, MARTIN, US
[71] SYNTHEKINE, INC., US
[85] 2022-06-29
[86] 2021-01-14 (PCT/US2021/013521)
[87] (WO2021/146487)
[30] US (62/961,200) 2020-01-14
[30] US (63/015,476) 2020-04-24
[30] US (63/016,256) 2020-04-27

[21] **3,166,424**
[13] A1
[51] **Int.Cl. F16D 65/827 (2006.01)**
[25] EN
[54] **ELECTRIC VEHICLE DRUM BRAKE DUST EVACUATION AND COOLING CONCEPT**
[54] **CONCEPT D'EVACUATION ET DE REFROIDISSEMENT DE POUSSIERE DE FREIN A TAMBOUR DE VEHICULE ELECTRIQUE**
[72] SABETI, MANOUCHEHR, US
[72] BANKS, DANIEL E., US
[71] BEXDIX COMMERCIAL VEHICLE SYSTEMS LLC, US
[85] 2022-06-29
[86] 2021-01-15 (PCT/US2021/013647)
[87] (WO2021/146563)
[30] US (16/745,728) 2020-01-17

[21] **3,166,426**
[13] A1
[51] **Int.Cl. G06F 40/35 (2020.01) G06F 16/903 (2019.01) G06N 20/00 (2019.01) G06F 40/186 (2020.01) G06Q 30/02 (2012.01)**
[25] EN
[54] **MACHINE LEARNING OF INSIGHT COMMUNICATION SELECTION TO PROACTIVELY INCREASE USER ENGAGEMENT**
[54] **APPRENTISSAGE AUTOMATIQUE DE SELECTION DE COMMUNICATION D'APERCU POUR AUGMENTER DE MANIERE PROACTIVE L'IMPLICATION D'UTILISATEUR**
[72] COKE, REED, US
[72] CZECHOWSKI, KENT, US
[72] LEGAULT, JACY MYLES, US
[71] OJO LABS, INC., US
[85] 2022-06-29
[86] 2020-12-28 (PCT/US2020/067094)
[87] (WO2021/138226)
[30] US (62/956,178) 2019-12-31
[30] US (17/134,476) 2020-12-27

[21] **3,166,428**
[13] A1
[51] **Int.Cl. H01S 3/00 (2006.01) H01S 3/13 (2006.01)**
[25] EN
[54] **VARIABLE BEAM SIZE VIA HOMOGENIZER MOVEMENT**
[54] **TAILLE DE FAISCEAU VARIABLE PAR MOUVEMENT D'HOMOGENEISATEUR**
[72] WILKINS, JAY, N., US
[71] ELEMENTAL SCIENTIFIC LASERS, LLC, US
[85] 2022-06-29
[86] 2021-02-19 (PCT/US2021/018731)
[87] (WO2021/168213)
[30] US (62/978,516) 2020-02-19

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[21] **3,166,444**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **ROTARY VALVE CONFIGURATION FOR A SURGICAL CASSETTE**
[54] **CONFIGURATION DE VANNE ROTATIVE POUR CASSETTE CHIRURGICALE**
[72] MEHTA, DEEP, US
[72] GHANNOUM, ZIAD, US
[72] NIRKHE, CHETAN, US
[72] HUCULAK, JOHN, US
[72] SOUZA, MARCUS, US
[71] JOHNSON & JOHNSON SURGICAL VISION, INC., US
[85] 2022-06-15
[86] 2020-12-16 (PCT/IB2020/062023)
[87] (WO2021/124146)
[30] US (62/949,423) 2019-12-17

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] **3,158,669**
[13] A1
[51] **Int.Cl. G01N 15/00 (2006.01) G01T 1/02 (2006.01)**
[25] EN
[54] **DOSIMETERS INCLUDING LENSLESS IMAGING SYSTEMS**
[54]
[72] FINE, ALAN MARC, CA
[71] ALENTIC MICROSCIENCE INC., CA
[22] 2014-12-16
[41] 2015-06-25
[62] 3,036,385
[30] US (61/917195) 2013-12-17

---

[21] **3,160,315**
[13] A1
[51] **Int.Cl. G10L 25/18 (2013.01) G10L 19/012 (2013.01) G10L 21/003 (2013.01) G06F 40/40 (2020.01)**
[25] EN
[54] **REAL-TIME SPEECH-TO-SPEECH GENERATION (RSSG) APPARATUS, METHOD AND A SYSTEM THEREFORE**
[54]
[72] DHAWAN, SANDEEP, US
[72] DHAWAN, KAPIL, US
[72] REUTTER, DENNIS, US
[72] BECKMAN, CHRIS, US
[72] MEMON, AHSAN, PK
[71] DHAWAN, SANDEEP, US
[71] DHAWAN, KAPIL, US
[71] REUTTER, DENNIS, US
[71] BECKMAN, CHRIS, US
[71] MEMON, AHSAN, PK
[22] 2022-05-25
[41] 2022-07-20
[30] US (17/645,973) 2021-12-24

---

[21] **3,162,338**
[13] A1
[51] **Int.Cl. A61K 6/833 (2020.01) A61C 5/77 (2017.01) A61C 13/00 (2006.01) A61C 13/083 (2006.01) A61C 13/09 (2006.01)**
[25] EN
[54] **METHOD FOR THE PRODUCTION OF A BLANK, BLANK AND A DENTAL RESTORATION**
[54]
[72] VOELKL, LOTHAR, DE
[72] FECHER, STEFAN, DE
[72] VOLLMANN, MARKUS, DE
[72] WIESNER, CARSTEN, DE
[71] DENTSPLY SIRONA INC., US
[71] DEGUDENT GMBH, DE
[22] 2017-10-18
[41] 2018-04-26
[62] 3,038,908
[30] DE (10 2016 119 934.6) 2016-10-19

---

[21] **3,164,693**
[13] A1
[25] EN
[54] **HUMAN PLASMA KALLIKREIN INHIBITORS**
[54] **INHIBITEURS DE LA KALLICREINE PLASMATIQUE HUMAINE**
[72] KOTIAN, PRAVIN L., US
[72] BABU, YARLAGADDA S., US
[72] WU, MINWAN, US
[72] CHINTAREDDY, VENKAT R., US
[72] KUMAR, V. SATISH, US
[72] ZHANG, WEIHE, US
[71] BIOCRYST PHARMACEUTICALS, INC., US
[22] 2015-03-09
[41] 2015-09-11
[62] 2,941,380
[30] US (61/949,808) 2014-03-07
[30] US (61/981,515) 2014-04-18

---

[21] **3,165,104**
[13] A1
[51] **Int.Cl. F02B 37/12 (2006.01) F01N 9/00 (2006.01) F02B 37/02 (2006.01) F02D 23/00 (2006.01) F02D 39/04 (2006.01) F02D 43/00 (2006.01)**
[25] EN
[54] **TURBOCHARGER SYSTEM FOR A TWO-STROKE ENGINE**
[54] **TURBOCOMPRESSEUR POUR UN MOTEUR A DEUX TEMPS**
[72] BUCHWITZ, JAMES H., US
[72] ZIMNEY, DEREK D., US
[72] SALFER, LUCAS R., US
[72] TRIHEY, SEAN M., US
[72] HEDLUND, DARREN J., US
[72] HANSON, REED A., US
[72] SEUSY, CLIFTON J., US
[71] POLARIS INDUSTRIES INC., US
[22] 2019-11-28
[41] 2020-06-07
[62] 3,063,143
[30] US (62/776,571) 2018-12-07
[30] US (16/691,995) 2019-11-22

---

[21] **3,165,109**
[13] A1
[51] **Int.Cl. C05C 11/00 (2006.01) C05G 5/27 (2020.01) A01N 37/44 (2006.01) A01N 37/46 (2006.01) A01N 59/02 (2006.01) A01P 21/00 (2006.01) C05D 9/00 (2006.01) C05G 3/00 (2020.01) C09K 17/40 (2006.01)**
[25] EN
[54] **NOVEL AGRICULTURAL COMPOSITION**
[54] **NOUVELLE COMPOSITION AGRICOLE**
[72] PUTHENVEETIL KUNJUKRISHNA MENON, RAMDAS, IN
[72] SAWANT, ARUN VITTHAL, IN
[71] SAWANT, ARUN VITTHAL, IN
[71] PUTHENVEETIL KUNJUKRISHNA MENON, RAMDAS, IN
[22] 2019-07-15
[41] 2020-01-23
[62] 3,104,970
[30] IB (PCT/IB2018/055225) 2018-07-14
[30] IN (201921002743) 2019-01-23

[21] **3,165,224**
[13] A1
[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/20 (2006.01) A61M 5/31 (2006.01)**
[25] EN
[54] **DOSE DETECTION AND DRUG IDENTIFICATION FOR A MEDICATION DELIVERY DEVICE**
[54] **DETECTION DE DOSE ET IDENTIFICATION DE MEDICAMENT POUR DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**
[72] BYERLY, ROY HOWARD, US
[72] MASSARI, ROSSANO CLAUDIO, US
[72] MURPHY, PATRICK KEVIN, US
[72] PACCIORETTI, DAVIDE, US
[72] PERKINS, RUSSELL WAYNE, US
[72] PSZENNY, SEAN MATTHEW, US
[72] REGELE, OLIVER BRIAN, US
[71] ELI LILLY AND COMPANY, US
[22] 2018-02-22
[41] 2018-09-07
[62] 3,050,752
[30] US (62/464,662) 2017-02-28
[30] US (62/539,106) 2017-07-31
[30] US (62/552,556) 2017-08-31

[21] **3,165,243**
[13] A1
[25] EN
[54] **CRYSTALLINE ACLIDINIUM BROMIDE AND USES THEREOF**
[54]
[72] MENDES, ZITA, PT
[72] CACELA, CONSTANCA, PT
[72] SANTOS, BRUNO, PT
[71] CONSTANTINO, ANA CARINA, PT
[71] HOVIONE SCIENTIA LIMITED, IE
[22] 2016-03-30
[41] 2016-10-06
[62] 2,980,665
[30] PT (108370) 2015-03-30

[21] **3,165,338**
[13] A1
[51] **Int.Cl. B29C 45/14 (2006.01)**
[25] EN
[54] **SHAVING RAZOR CARTRIDGE AND METHOD OF MANUFACTURE**
[54] **CARTOUCHE POUR RASOIR ET PROCEDE DE FABRICATION**
[72] PATEL, ASHOK BAKUL, US
[72] LONG, MATTHEW MICHAEL, US
[71] THE GILLETTE COMPANY LLC, US
[22] 2019-03-20
[41] 2019-10-03
[62] 3,091,034
[30] US (62/650,382) 2018-03-30

[21] **3,165,769**
[13] A1
[25] EN
[54] **BIODEGRADABLE LIPIDS FOR THE DELIVERY OF ACTIVE AGENTS**
[54] **LIPIDES BIODEGRADABLES POUR L'ADMINISTRATION D'AGENTS ACTIFS**
[72] MAIER, MARTIN, US
[72] JAYARAMAN, MUTHUSAMY, US
[72] AKINC, AKIN, US
[72] MATSUDA, SHIGEO, US
[72] KADASAMY, PACHAMUTHU, US
[72] RAJEEV, KALLANTHOTTATHIL G., US
[72] MANOHARAN, MUTHIAH, US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[22] 2012-12-07
[41] 2013-06-13
[62] 2,856,742
[30] US (61/568,133) 2011-12-07
[30] US (61/623,274) 2012-04-12

[21] **3,165,783**
[13] A1
[51] **Int.Cl. F24F 11/50 (2018.01)**
[25] EN
[54] **A SYSTEM FOR DETERMINING AMBIENT TEMPERATURE**
[54] **SYSTEME PERMETTANT DE DETERMINER LA TEMPERATURE AMBIANTE**
[72] ALJABARI, MOHAMMAD A., US
[71] ADEMCO INC., US
[22] 2008-12-01
[41] 2009-06-11
[62] 2,708,036
[30] US (11/950,394) 2007-12-04

[21] **3,165,797**
[13] A1
[25] EN
[54] **PORTABLE PERSONAL MONITOR DEVICE AND ASSOCIATED METHODS**
[54] **DISPOSITIF DE SURVEILLANCE PERSONNEL PORTABLE ET PROCEDES ASSOCIES**
[72] STINSON, SEAN, CA
[72] JOHNSON, KIRK, CA
[72] ENGLOT, KELLY, CA
[72] BENSON, PHILLIP, CA
[72] MOORE, BARRY, CA
[72] DAENINCK, STEVEN, CA
[71] BLACKLINE SAFETY CORP., CA
[22] 2017-10-03
[41] 2018-04-19
[62] 3,039,254
[30] US (62/407,364) 2016-10-12

[21] **3,165,885**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **OSCILLATING POSITIVE RESPIRATORY PRESSURE DEVICE**
[54] **DISPOSITIF DE PRESSION RESPIRATOIRE POSITIVE OSCILLANTE**
[72] MEYER, ADAM, CA
[72] ENGELBRETH, DAN, CA
[71] TRUDELL MEDICAL INTERNATIONAL, CA
[22] 2014-08-21
[41] 2015-02-26
[62] 3,134,083
[30] US (61/868,667) 2013-08-22

[21] **3,165,943**
[13] A1
[51] **Int.Cl. B60R 9/045 (2006.01) B60R 9/00 (2006.01)**
[25] EN
[54] **UTILITY RACK AND RAIL SYSTEM FOR VEHICLE**
[54] **SYSTEME DE BATI ET DE RAMBARDE UTILITAIRES POUR VEHICULE**
[72] PUCHKOFF, JEROME, US
[71] PUCHKOFF, JEROME, US
[22] 2014-12-24
[41] 2015-07-02
[62] 3,155,920
[30] US (61/921,265) 2013-12-27
[30] US (61/935,076) 2014-02-03

[21] **3,165,969**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **VENTILATOR APPARATUS AND SYSTEM FOR VENTILATION**
[54] **VENTILATEUR ET SYSTEME DE VENTILATION**
[72] HABASHI, NADER M., US
[71] HABASHI, NADER M., US
[22] 2008-06-02
[41] 2008-12-04
[62] 2,726,604
[30] US (60/924,835) 2007-06-01

---

[21] **3,165,974**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR RECORDING SIMULTANEOUSLY VISIBLE LIGHT IMAGE AND INFRARED LIGHT IMAGE FROM FLUOROPHORES**
[54] **SYSTEMES ET PROCEDES D'ENREGISTREMENT SIMULTANE D'UNE IMAGE EN LUMIERE VISIBLE ET D'UNE IMAGE EN LUMIERE INFRAROUGE A PARTIR DE FLUOROPHORES**
[72] BUTTE, PRAMOD, US
[72] MAMELAK, ADAM, US
[71] CEDARS-SINAI MEDICAL CENTER, US
[22] 2014-04-23
[41] 2014-10-30
[62] 2,909,734
[30] US (61/814,955) 2013-04-23

---

[21] **3,166,018**
[13] A1
[25] EN
[54] **QUINOLINE DERIVATIVES FOR THE TREATMENT OF INFLAMMATORY DISEASES**
[54] **DERIVES DE QUINOLEINE POUR LE TRAITEMENT DE MALADIES INFLAMMATOIRES**
[72] TAZI, JAMAL, FR
[72] NAJMAN, ROMAIN, FR
[72] MAHUTEAU, FLORENCE, FR
[72] SCHERRER, DIDIER, FR
[72] CHEBLI, KARIM, FR
[72] HAHNE, MICHAEL, FR
[71] ABIVAX, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENFIFIQUE (C.N.R.S.), FR
[71] INSTITUT CURIE, FR
[71] UNIVERSITE DE MONTPELLIER, FR
[22] 2015-07-17
[41] 2016-01-21
[62] 2,954,951
[30] EP (14306164.6) 2014-07-17

---

[21] **3,166,020**
[13] A1
[25] EN
[54] **ELECTRODYNAMIC FIELD STRENGTH TRIGGERING SYSTEM**
[54] **SYSTEME DE DECLENCHEMENT D'INTENSITE DE CHAMP ELECTRODYNAMIQUE**
[72] COLVIN, ARTHUR E., US
[72] DEHENNIS, ANDREW, US
[71] SENSEONICS, INCORPORATED, US
[22] 2012-10-11
[41] 2013-04-18
[62] 3,073,586
[30] US (61/545,874) 2011-10-11
[30] US (61/597,496) 2012-02-10

---

[21] **3,166,029**
[13] A1
[51] **Int.Cl. A62B 9/04 (2006.01) F16L 37/56 (2006.01)**
[25] EN
[54] **CIRCUIT CONNECTOR FOR A HUMIDIFICATION SYSTEM**
[54]
[72] OSBORNE, HAMISH, NZ
[72] MILLAR, GAVIN WALSH, NZ
[72] EVANS, STEPHEN DAVID, NZ
[72] HOLYOAKE, BRUCE GORDON, NZ
[72] STANTON, JAMES WILLIAM, NZ
[72] MCCAULEY, DAVID LEON, NZ
[72] MCDERMOTT, GARETH THOMAS, NZ
[72] MCKENNA, NICHOLAS JAMES MICHAEL, NZ
[72] NORTON, MYFANWY JANE ANTICA, NZ
[72] ELSWORTH, ADRIAN JOHN, NZ
[72] ANDRESEN, MICHAEL JOHN, NZ
[72] LAMBERT, JONATHAN ANDREW GEORGE, NZ
[72] GURM, SANDEEP SINGH, NZ
[72] PARIS, TESSA HAZEL, NZ
[72] GRIFFITHS, JOSEPH NATHANIEL, NZ
[72] SI, PING, NZ
[72] SIMS, CHRISTOPHER GARETH, NZ
[72] STOKS, ELMO BENSON, NZ
[72] CHEUNG, DEXTER CHI LUN, NZ
[72] SEEKUP, PETER, ALAN, NZ
[72] LIU, PO-YEN DAVID, NZ
[72] LANG, RICHARD EDWARD, NZ
[72] TONKIN, PAUL JAMES, NZ
[72] KWAN, IAN LEE WAI, NZ
[71] FISHER AND PAYKEL HEALTHCARE LIMITED, NZ
[22] 2014-09-15
[41] 2015-03-19
[62] 2,924,033
[30] US (61/877,784) 2013-09-13
[30] US (61/877,736) 2013-09-13
[30] US (61/877,622) 2013-09-13
[30] US (61/877,566) 2013-09-13
[30] US (61/919,485) 2013-12-20
[30] US (62/024,969) 2014-07-15
[30] US (62/032,462) 2014-08-01

[21] **3,166,031**
[13] A1
[51] **Int.Cl. A61M 1/36 (2006.01) A61M 1/16 (2006.01)**
[25] EN
[54] **HEMODIALYSIS SYSTEM**
[54] **SYSTEME D'HEMODIALYSE**
[72] BODWELL, JESSE T., US
[72] COLLINS, DAVID E., US
[72] DALE, JAMES D., US
[72] GRANT, KEVIN L., US
[72] RUDOLF, BRETT A., US
[72] TRACEY, BRIAN D., US
[72] WILT, MICHAEL J., US
[72] PANNETON, LISA A., US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[22] 2012-05-24
[41] 2012-11-29
[62] 3,078,889
[30] US (61/489,464) 2011-05-24

[21] **3,166,063**
[13] A1
[25] EN
[54] **COMPOSITIONS AND METHODS FOR DENGUE VIRUS CHIMERIC CONSTRUCTS IN VACCINES**
[54] **COMPOSITIONS ET PROCEDES POUR CONSTRUCTIONS CHIMERIQUES DU VIRUS DE LA DENGUE DANS DES VACCINS**
[72] STINCHCOMB, DAN T., US
[72] KINNEY, CLAIRE, US
[72] KINNEY, RICHARD M., US
[72] LIVENGOOD, JILL A., US
[71] TAKEDA VACCINES, INC., US
[71] THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[22] 2014-03-12
[41] 2014-09-25
[62] 2,903,231
[30] US (61/800,204) 2013-03-15

[21] **3,166,074**
[13] A1
[25] EN
[54] **ALUMINUM ALLOY PRODUCTS EXHIBITING IMPROVED BOND DURABILITY AND/OR HAVING PHOSPHORUS-CONTAINING SURFACES AND METHODS OF MAKING THE SAME**
[54] **PRODUITS D'ALLIAGE D'ALUMINIUM PRESENTANT UNE DURABILITE DE LIAISON AMELIOREE ET/OU AYANT DES SURFACES CONTENANT DU PHOSPHORE ET LEURS PROCEDES DE FABRICATION**
[72] DAS, SAZOL KUMAR, US
[72] FELBERBAUM, MILAN, CH
[72] LI, LIANGLIANG, US
[72] LIN, DECHAO, US
[72] MACFARLANE, THERESA ELIZABETH, US
[72] MALPICA, JULIO, US
[72] MANAVBASI, ALP, US
[72] PARADIS, BRIAN, US
[72] REDMOND, PETER LLOYD, US
[72] SON, CHANGOOK, US
[72] VEGA, LUIS FANOR, US
[72] YUAN, YUDIE, US
[72] ZHU, DEWEI, US
[71] NOVELIS INC., US
[22] 2018-10-23
[41] 2019-06-27
[62] 3,085,731
[30] US (62/608,614) 2017-12-21
[30] US (62/741,688) 2018-10-05

[21] **3,166,114**
[13] A1
[51] **Int.Cl. B63H 21/21 (2006.01) B63H 25/02 (2006.01)**
[25] EN
[54] **FOOT PEDAL FOR A TROLLING MOTOR ASSEMBLY**
[54] **PEDALE POUR ENSEMBLE MOTEUR DE PECHE A LA TRAINE**
[72] BAILEY, PAUL ROBERT, US
[72] SALISBURY, ALEX, NZ
[72] SCHROEDER, JEREMY J., US
[71] NAVICO HOLDING AS, NO
[22] 2019-12-03
[41] 2020-06-04
[62] 3,063,565
[30] US (16/208944) 2018-12-04

[21] **3,166,117**
[13] A1
[51] **Int.Cl. B01D 50/40 (2022.01) B01D 21/26 (2006.01)**
[25] EN
[54] **FRACTIONATED STILLAGE SEPARATION AND FEED PRODUCTS**
[54] **SEPARATION DE VINASSE FRACTIONNEE ET PRODUITS DE MATIERE PREMIERE**
[72] DIEKER, KURT A., US
[72] EMME, BRANDON, US
[72] GALLOP, CHARLES C., US
[72] GERKEN, CHRISTOPHER RILEY WILLIAM, US
[72] PEREIRA, JOHN A., US
[72] SPOONER, JESSE, US
[71] ICM, INC., US
[22] 2018-06-19
[41] 2018-12-19
[62] 3,008,883
[30] US (62/521,542) 2017-06-19

[21] **3,166,171**
[13] A1
[51] **Int.Cl. B01D 45/12 (2006.01)**
[25] EN
[54] **ABRASION RESISTANT GAS SEPARATOR**
[54]
[72] WANG, CHENGBAO, US
[72] PIDSADOWSKI, KELLY, CA
[71] BAKER HUGHES ESP, INC., US
[22] 2014-01-14
[41] 2014-08-07
[62] 3,117,045
[30] US (13/757,309) 2013-02-01

[21] **3,166,175**
[13] A1
[51] **Int.Cl. A61B 17/03 (2006.01) A61B 17/64 (2006.01) A61F 2/04 (2013.01)**
[25] EN
[54] **MICROANCHORS FOR ANCHORING DEVICES TO BODY TISSUES**
[54] **MICRO-ANCRAGES SERVANT A ANCRER DES DISPOSITIFS DANS DES TISSUS ORGANIQUES**
[72] WARNER, CLIFFORD P., US
[72] ESKAROS, SHERIF A., US
[72] MAZICH, KENNETH, US
[71] W. L. GORE & ASSOCIATES, INC., US
[22] 2013-08-08
[41] 2014-02-13
[62] 3,032,125
[30] US (61/681,673) 2012-08-10
[30] US (13/961,367) 2013-08-07

[21] **3,166,392**
[13] A1
[25] EN
[54] **SOLID INSPECTION APPARATUS AND METHOD OF USE**
[54]
[72] EARNEY, JOHN GERHARDT, US
[72] PINTO, JOSEPH FRANCIS, US
[72] BOWEN, M. SHANE, US
[72] GRAIGE, MICHAEL S., US
[72] PITERA, ARTHUR, US
[72] VENKATESAN, BALA MURALI K., US
[72] YUAN, DAJUN, US
[71] ILLUMINA, INC., US
[22] 2017-12-11
[41] 2018-07-12
[62] 3,022,953
[30] US (62/443,675) 2017-01-07

[21] **3,166,399**
[13] A1
[51] **Int.Cl. C07K 16/46 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **MONOCLONAL ANTIBODIES TO FIBROBLAST GROWTH FACTOR RECEPTOR 2**
[54] **ANTICORPS MONOCLONAUX ANTI-RECEPTEUR 2 DU FACTEUR DE CROISSANCE DES FIBROBLASTES**
[72] KIM, KYUNG JIN, US
[72] ZHAO, WEI-MENG, US
[72] PARK, HANGIL, US
[72] VASQUEZ, MAXIMILIANO, US
[71] GALAXY BIOTECH, LLC., US
[22] 2009-11-06
[41] 2010-05-14
[62] 2,733,668
[30] US (61/112,686) 2008-11-07
[30] US (61/164,870) 2009-03-30

[21] **3,166,403**
[13] A1
[25] EN
[54] **CORD DISCONNECT APPARATUS AND METHODS**
[54] **APPAREILLAGE ET METHODE DE DEBRANCHEMENT DE CORDON**
[72] DYKAS, THOM, US
[72] ASCENCIO-HALL, DANNY, US
[72] BROWN, ADNREW T., US
[71] POWER PRODUCTS, LLC, US
[22] 2017-10-13
[41] 2018-04-14
[62] 2,982,540
[30] US (62/408529) 2016-10-14

[21] **3,166,445**
[13] A1
[51] **Int.Cl. B65D 35/46 (2006.01) B65D 25/42 (2006.01) B65D 43/16 (2006.01) B65D 47/08 (2006.01) B65D 47/20 (2006.01) B65D 47/22 (2006.01)**
[25] EN
[54] **CONTAINER**
[54]
[72] GELOV, TEODOR, US
[72] NICHOLS, KAREN H., US
[72] NORTON, DOUGLAS E., US
[71] TC HEARTLAND LLC, US
[22] 2014-03-14
[41] 2014-09-18
[62] 2,905,117
[30] US (13/844,492) 2013-03-15

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