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THE CANADIAN PATENT OFFICE RECORD

LA GAZETTE DU BUREAU DES BREVETS

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

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

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

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

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Notices

Avis

1. Dates and Code Numerals Appearing in Patent Headings

Dates

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

Code Numerals

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

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

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

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

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

Dates

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

Chiffres de code

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

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

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

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

2. Country Code

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

2. Code des pays

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

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

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

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

6. Licensing of Patents

Voluntary Licences

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

Compulsory Licences

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

7. Patents Available for Licence or Sale

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

8. List of Patents Available for Licence or Sale

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

None

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Octroi de licences en vertu des brevets

Licences librement accordées

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

Licences obligatoires

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

7. Brevets disponibles pour licence ou vente

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

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

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

Aucun

9. Applications Open to Public Inspection

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

10. Language of Published Documents

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

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

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

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

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

9. Demandes mises à la disponibilité du public

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

10. Langue du document publié

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

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

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

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

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

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

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

4. Late payment fee

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

4. Taxe pour paiement tardif

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

Preliminary Examination

Examen préliminaire

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

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

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

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

* International fees will be reduced by:

* Les frais seront réduits de:

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

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

12. PCT Notices

12. Avis PCT

Patent Cooperation Treaty (PCT)

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

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Offices.

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

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

14. Correspondence Procedures

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

Web Link for MOPOP:

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

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

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

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

Publication date: May 10, 2017

Amendment date: June 17, 2019

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

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

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

14. Procédures de correspondance

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

Lien Web pour le RPBB :

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

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

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

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

Date de publication : 10 mai 2017

Date de modification : 17 juin 2019

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Avis

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Electronic Correspondence

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

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

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

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

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

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

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

2. Correspondance électronique

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

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

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

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

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

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open for business.

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

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Patents

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

2.2 Online

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

Patents

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

Trademarks

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

Brevets

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

2.2 En ligne

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

Brevets

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

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

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

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

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

Marques de commerce

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

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accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

Copyright

:

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

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

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

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

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

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

Droits d'auteur

Notices

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

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

Industrial Designs

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

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

Integrated Circuit Topographies

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

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

2.3 Electronic medium

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

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

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

Dessins industriels

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

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

Topographies de circuits intégrés

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

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

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

PDF Format:

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

ASCII

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

Trademarks

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

Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Marques de commerce

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

Dessins industriels

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

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

Notices

4. General Information

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

5. Time Period Extensions

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

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

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

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

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

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

4. Renseignements généraux

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

Notices

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

8. Intellectual property acts, rules and regulations

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

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

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

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

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

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

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

Marques de commerce

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

8. Lois, règles et règlements sur la propriété intellectuelle

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

Avis

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

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

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of April 20, 2021 contains applications open to public inspection from April 4, 2021 to April 10, 2021.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 20 avril 2021 contient les demandes disponibles au public pour consultation pour la période du 4 avril 2021 au 10 avril 2021.

Canadian Patents Issued

April 20, 2021

Brevets canadiens délivrés

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[11] **2,667,637**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 38/17 (2006.01) A61P 37/02 (2006.01) C07K 14/52 (2006.01) C12N 15/62 (2006.01) A61K 39/00 (2006.01)**

[25] EN

[54] **FUSION PROTEINS COMPRISING AN ANTI-INFLAMMATORY CYTOKINE AND AN ANTIGEN FOR TREATMENT OF IMMUNE DISORDERS**

[54] **PROTEINES DE FUSION COMPRENANT UNE CYTOKINE ANTI-INFLAMMATOIRE ET UN ANTIGENE DESTINEES AU TRAITEMENT DE TROUBLES IMMUNITAIRES**

[72] MANNIE, MARK D., US
[73] EAST CAROLINA UNIVERSITY, US
[85] 2009-04-24
[86] 2007-10-29 (PCT/US2007/022768)
[87] (WO2008/130382)
[30] US (60/863,692) 2006-10-31

[11] **2,702,191**
[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) H04N 21/458 (2011.01) H04L 12/16 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MANAGING ADVERTISING CONTENT CORRESPONDING TO STREAMING MEDIA CONTENT**

[54] **SYSTEMES ET PROCEDES POUR GERER UN CONTENU PUBLICITAIRE CORRESPONDANT A UN CONTENU DE MEDIA DIFFUSE EN CONTINU**

[72] OTA, TAKA AKI, US
[73] SONY CORPORATION, JP
[73] SONY ELECTRONICS INC., US
[85] 2010-04-09
[86] 2008-09-18 (PCT/US2008/010911)
[87] (WO2009/048507)
[30] US (11/871,060) 2007-10-11

[11] **2,714,520**
[13] C

[51] **Int.Cl. F24F 6/04 (2006.01) F24F 11/70 (2018.01) F24F 3/14 (2006.01)**

[25] EN

[54] **HUMIDIFIER WITH VARIABLE WATER DELIVERY**

[54] **HUMIDIFICATEUR AVEC ALIMENTATION EN EAU VARIABLE**

[72] QUAM, DAVID, US
[72] PETERSON, JEREMY, US
[73] ADEMCO INC., US
[86] (2714520)
[87] (2714520)
[22] 2010-09-03
[30] US (12/565,719) 2009-09-23

[11] **2,752,912**
[13] C

[51] **Int.Cl. C02F 1/00 (2006.01) C02F 1/52 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR TREATING WATER AND WASTEWATER EMPLOYING A CLOTH DISK FILTER**

[54] **PROCEDES ET APPAREIL POUR LE TRAITEMENT DE L'EAU ET DES EAUX USEES UTILISANT UN FILTRE A DISQUE DE TISSU**

[72] XIA, YONGMING, US
[72] DEVINE, JEFFREY S., US
[72] DANNEMANN, CHARLES G., US
[73] ALFA LAVAL INC., US
[86] (2752912)
[87] (2752912)
[22] 2011-09-20
[30] US (12/905,454) 2010-10-15

[11] **2,753,083**
[13] C

[51] **Int.Cl. A61K 36/20 (2006.01) A61K 35/741 (2015.01) A61K 35/747 (2015.01)**

[25] EN

[54] **SYMBIOTIC MAPLE PRODUCT COMPOSITIONS AND METHODS**

[54] **COMPOSITIONS DE PRODUITS SYMBIOTIQUES A BASE D'ERABLE ET PROCEDES DE PRODUCTION CORRESPONDANTS**

[72] BARBEAU, JULIE, CA
[72] BELAND, GENEVIEVE, CA
[72] FLISS, ISMAIL, CA
[73] PRODUCTEURS ET PRODUCTRICES ACERICOLES DU QUEBEC, CA
[85] 2011-08-19
[86] 2010-03-05 (PCT/CA2010/000308)
[87] (WO2010/099617)
[30] US (61/158.151) 2009-03-06

[11] **2,759,228**
[13] C

[51] **Int.Cl. A61B 8/12 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR LOCATING MEDICAL DEVICES IN VIVO USING ULTRASOUND DOPPLER MODE**

[54] **SYSTEME ET METHODE DE LOCALISATION DE DISPOSITIFS MEDICAUX IN VIVO PAR MODE DOPPLER A ULTRASON**

[72] DUHAY, FRANCIS G., US
[72] ZOLLINGER, DAVID, US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2011-10-18
[86] 2010-05-28 (PCT/US2010/036637)
[87] (WO2010/138853)
[30] US (61/182,064) 2009-05-28
[30] US (12/789,156) 2010-05-27

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[11] **2,760,385**

[13] C

- [51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI CEACAM1 ANTIBODIES AND METHODS OF USING SAME**
[54] **ANTICORPS ANTI-CEACAM1 ET LEURS PROCÉDES D'UTILISATION**
[72] MARKEL, GAL, IL
[72] ORTENBERG, RONA, IL
[72] SCHACHTER, JACOB, IL
[73] TEL HASHOMER MEDICAL RESEARCH INFRASTRUCTURE AND SERVICES LTD., IL
[73] RAMOT AT TEL AVIV UNIVERSITY LTD., IL
[85] 2011-10-28
[86] 2010-04-29 (PCT/IL2010/000348)
[87] (WO2010/125571)
[30] US (61/213,040) 2009-04-30

[11] **2,761,929**

[13] C

- [51] **Int.Cl. B64C 13/50 (2006.01) B60T 13/74 (2006.01) B64C 25/44 (2006.01) F16D 65/14 (2006.01) H02M 1/00 (2007.10) H02M 3/04 (2006.01)**
[25] EN
[54] **AIRCRAFT ELECTRIC POWER CONVERSION AND DISTRIBUTION SYSTEM**
[54] **SYSTEME DE TRANSFORMATION ET DE DISTRIBUTION D'ENERGIE ELECTRIQUE D'AERONEF**
[72] CICCONE, DENNIS M., US
[72] SUPONCIC, MICHAEL J., US
[73] MEGGITT AIRCRAFT BRAKING SYSTEMS CORPORATION, US
[86] (2761929)
[87] (2761929)
[22] 2011-12-13
[30] US (12/987,206) 2011-01-10

[11] **2,762,405**

[13] C

- [51] **Int.Cl. H04L 12/16 (2006.01) H04L 12/28 (2006.01) G06Q 30/00 (2012.01)**
[25] EN
[54] **INTERMEDIARY NODE WITH DISTRIBUTION CAPABILITY AND COMMUNICATION NETWORK WITH FEDERATED METERING CAPABILITY**
[54] **NOEUD INTERMEDIAIRE A CAPACITE DE DISTRIBUTION ET RESEAU DE COMMUNICATION A CAPACITE DE COMPTAGE FEDERE**
[72] KAMMERER, KURT, DE
[72] SCHMID, VOLKER, DE
[73] REGIFY S.A., DE
[86] (2762405)
[87] (2762405)
[22] 2011-12-16
[30] US (61/428,897) 2010-12-31

[11] **2,766,391**

[13] C

- [51] **Int.Cl. C12Q 1/6844 (2018.01) C12Q 1/6851 (2018.01) C12Q 1/6865 (2018.01) C12Q 1/6876 (2018.01) C12P 19/34 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR MULTIPLEX NUCLEIC ACID AMPLIFICATION**
[54] **PROCEDES ET COMPOSITIONS POUR AMPLIFICATION D'ACIDE NUCLEIQUE EN MULTIPLEX**
[72] BRENTANO, STEVEN T., US
[72] LYAKHOV, DMITRY, US
[72] CARLSON, JAMES D., US
[72] BECKER, MICHAEL M., US
[72] NELSON, NORMAN C., US
[72] ARNOLD, LYLE J., JR., US
[73] GEN-PROBE INCORPORATED, US
[85] 2011-12-21
[86] 2010-07-01 (PCT/US2010/040819)
[87] (WO2011/003020)
[30] US (61/222,150) 2009-07-01

[11] **2,770,100**

[13] C

- [51] **Int.Cl. A61K 31/47 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS OF USING C-MET MODULATORS**
[54] **PROCEDES D'UTILISATION DE MODULATEURS DE C-MET**
[72] AFTAB, DANA T., US
[72] MUELLER, THOMAS, US
[72] WEITZMAN, AARON, US
[72] HOLLAND, JAYMES, US
[73] EXELIXIS, INC., US
[85] 2012-02-02
[86] 2010-08-06 (PCT/US2010/044749)
[87] (WO2011/017639)
[30] US (61/232,382) 2009-08-07

[11] **2,778,695**

[13] C

- [51] **Int.Cl. C12P 21/00 (2006.01) A61K 31/375 (2006.01) A61K 35/12 (2015.01) A61K 38/16 (2006.01) C12N 1/00 (2006.01) C12N 1/38 (2006.01) C12N 5/00 (2006.01) C12N 5/04 (2006.01) C12N 15/00 (2006.01) C12N 15/67 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR ENHANCING POLYPEPTIDE PRODUCTION**
[54] **METHODES ET COMPOSITIONS PERMETTANT D'AUGMENTER LA PRODUCTION D'UN POLYPEPTIDE**
[72] DOLAN, MAUREEN C., US
[72] LORENCE, ARGELIA, US
[72] MEDRANO, GIULIANA, US
[73] ARKANSAS STATE UNIVERSITY, US
[85] 2012-04-23
[86] 2010-10-22 (PCT/US2010/053795)
[87] (WO2011/050286)
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[51] **Int.Cl. G08B 27/00 (2006.01) H04H 20/59 (2009.01) H04H 60/82 (2009.01)**
[25] EN
[54] **EMERGENCY ALERT SYSTEM**
[54] **SYSTEME D'ALERTE D'URGENCE**
[72] VALLAIRE, DARREN M., US
[73] VALLAIRE, DARREN M., US
[85] 2012-08-10
[86] 2011-02-11 (PCT/US2011/024564)
[87] (WO2011/100574)
[30] US (12/705,191) 2010-02-12

[11] **2,790,050**
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/19 (2006.01)**
[25] EN
[54] **DISPOSABLE SYRINGE APPLICATORS FOR MULTI-COMPONENT FORMULATIONS, AND METHODS OF USE THEREOF**
[54] **APPLICATEURS JETABLES A SERINGUE POUR DES FORMULATIONS A COMPOSANTS MULTIPLES, ET LEURS PROCEDES D'UTILISATION**
[72] BUTLIN, JARED D.G., US
[72] D'ALESSIO, KEITH R., US
[73] HYPERBRANCH MEDICAL TECHNOLOGY, INC., US
[85] 2012-08-15
[86] 2011-03-14 (PCT/US2011/028301)
[87] (WO2011/119360)
[30] US (61/316,516) 2010-03-23
[30] US (61/432,832) 2011-01-14

[11] **2,790,437**
[13] C

[51] **Int.Cl. G07F 17/32 (2006.01) G07B 11/00 (2006.01)**
[25] EN
[54] **REDEMPTION OF VIRTUAL TICKETS USING A PORTABLE ELECTRONIC DEVICE**
[54] **RACHAT DE BILLETS VIRTUELS AU MOYEN D'UN DISPOSITIF ELECTRONIQUE PORTABLE**
[72] LEMAY, STEVEN G., US
[72] NELSON, DWAYNE R., US
[72] VASQUEZ, JIM A., US
[72] GOWIN, SCOTT T., US
[73] IGT, US
[86] (2790437)
[87] (2790437)
[22] 2012-09-06
[30] US (13/229,536) 2011-09-09
[30] US (13/231,275) 2011-09-13

[11] **2,796,699**
[13] C

[51] **Int.Cl. B29C 49/42 (2006.01) B65D 47/42 (2006.01)**
[25] EN
[54] **LIQUID DISPENSING APPLICATORS AND METHODS OF MANUFACTURE**
[54] **APPLICATEURS DE DISTRIBUTION DE LIQUIDE ET PROCEDES DE FABRICATION**
[72] MARGOOSIAN, RAZMIK, CA
[72] AFARIAN, VIKEN, CA
[73] MARGOOSIAN, RAZMIK, CA
[86] (2796699)
[87] (2796699)
[22] 2012-11-14

[11] **2,807,136**
[13] C

[51] **Int.Cl. A61K 31/7125 (2006.01) C12N 15/113 (2010.01) A61P 31/14 (2006.01) C07D 413/04 (2006.01) C07D 473/00 (2006.01) C07H 21/00 (2006.01) C08G 79/04 (2006.01) C12N 15/40 (2006.01)**
[25] EN
[54] **ANTISENSE ANTIVIRAL COMPOUNDS AND METHODS FOR TREATING A FILOVIRUS INFECTION**
[54] **COMPOSES ANTIVIRAUX ANTISENS ET PROCEDES DE TRAITEMENT D'UNE INFECTION PAR UN FILOVIRUS**
[72] IVERSEN, PATRICK L., US
[72] WELLER, DWIGHT D., US
[73] SAREPTA THERAPEUTICS, INC., US
[85] 2013-01-30
[86] 2010-08-20 (PCT/US2010/046234)
[87] (WO2012/021141)
[30] US (12/853,180) 2010-08-09

[11] **2,810,243**
[13] C

[51] **Int.Cl. A61K 38/16 (2006.01) A61K 9/16 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 38/10 (2006.01) A61P 3/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **FORMULATIONS OF GUANYLATE CYCLASE C AGONISTS AND METHODS OF USE**
[54] **PREPARATIONS D'AGONISTES DU GUANYLATE CYCLASE-C ET METHODES D'UTILISATION**
[72] COMISKEY, STEPHEN, US
[72] FENG, RONG, US
[72] FOSS, JOHN, US
[72] SHAILUBHAI, KUNWAR, US
[73] SYNERGY PHARMACEUTICALS INC., US
[85] 2013-03-01
[86] 2011-09-15 (PCT/US2011/051805)
[87] (WO2012/037380)
[30] US (61/383,156) 2010-09-15
[30] US (61/387,636) 2010-09-29
[30] US (61/392,186) 2010-10-12

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[11] **2,812,021**
[13] C

[51] **Int.Cl. G03B 15/00 (2021.01) H04N 13/128 (2018.01)**

[25] EN

[54] **PHOTOGRAPHY SYSTEM WITH DEPTH AND POSITION DETECTION**

[54] **SYSTEME DE PHOTOGRAPHIE AVEC DETECTION DE LA PROFONDEUR ET DE LA POSITION**

[72] SURMA, MICHAEL J, US
[72] CONZEMIUS, JOLINDA K., US
[73] LIFETOUCH INC., US
[86] (2812021)
[87] (2812021)
[22] 2013-04-04
[30] US (61/620,254) 2012-04-04
[30] US (13/777.579) 2013-02-26

[11] **2,816,135**
[13] C

[51] **Int.Cl. E05B 47/00 (2006.01) E05B 65/46 (2017.01)**

[25] EN

[54] **INTERCHANGEABLE ELECTRONIC LOCK**

[54] **SERRURE ELECTRONIQUE INTERCHANGEABLE**

[72] ULLRICH, THEODORE, US
[72] MCLEOD, JOHN, CA
[72] SABELLI, TONINO, CA
[72] DIPIETRO, DEAN, CA
[72] GELARDI, PEPIN, US
[73] 2603701 ONTARIO INC., CA
[86] (2816135)
[87] (2816135)
[22] 2013-05-10
[30] US (13/468,240) 2012-05-10
[30] US (13/468,219) 2012-05-10

[11] **2,819,124**
[13] C

[51] **Int.Cl. C23G 1/06 (2006.01) C23F 11/02 (2006.01) C23F 11/04 (2006.01)**

[25] EN

[54] **AQUEOUS ACID CLEANING, CORROSION AND STAIN INHIBITING COMPOSITIONS IN THE VAPOR PHASE COMPRISING A BLEND OF NITRIC AND SULFURIC ACID**

[54] **COMPOSITIONS ANTI-CORROSION ET ANTI-TACHES, DE NETTOYAGE A L'ACIDE AQUEUX EN PHASE VAPEUR COMPRÉANT UN MELANGE D'ACIDE NITRIQUE ET D'ACIDE SULFURIQUE**

[72] SCHACHT, PAUL F., US
[72] SCHMIDT, ERIC V., US
[73] ECOLAB USA INC., US
[85] 2013-05-27
[86] 2012-01-05 (PCT/IB2012/050070)
[87] (WO2012/093372)
[30] US (12/984,670) 2011-01-05
[30] US (13/344,119) 2012-01-05

[11] **2,823,218**
[13] C

[51] **Int.Cl. A61K 38/06 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **TREATMENT OF AUTISM SPECTRUM DISORDERS USING GLYCYL-L-2-METHYLPROLYL-L-GLUTAMIC ACID**

[54] **TRAITEMENT DE TROUBLES DU SPECTRE AUTISTIQUE EN UTILISANT L'ACIDE GLYCYL-L-2-METHYLPROLYL-L-GLUTAMIQUE**

[72] GLASS, LARRY, US
[72] BICKERDIKE, MICHAEL JOHN, NZ
[72] SNAPE, MICHAEL FREDERICK, GB
[73] NEUREN PHARMACEUTICALS LIMITED, AU
[85] 2013-06-26
[86] 2012-01-27 (PCT/US2012/000047)
[87] (WO2012/102832)
[30] US (61/462,141) 2011-01-27
[30] US (61/492,248) 2011-06-01

[11] **2,823,532**
[13] C

[51] **Int.Cl. H04N 21/431 (2011.01) H04N 21/4722 (2011.01) H04N 21/4725 (2011.01) H04N 21/482 (2011.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR NAVIGATING THROUGH CONTENT IN AN INTERACTIVE MEDIA GUIDANCE APPLICATION**

[54] **SYSTEMES ET PROCEDES POUR NAVIGUER A TRAVERS UN CONTENU DANS UNE APPLICATION DE GUIDAGE MULTIMEDIA INTERACTIVE**

[72] RHOADS, JEFFREY LESTER, US
[72] BAUMGARTNER, HANS ANDREAS, US
[73] ROVI GUIDES, INC., US
[85] 2013-07-02
[86] 2011-12-29 (PCT/US2011/067777)
[87] (WO2012/094228)
[30] US (61/430,157) 2011-01-05
[30] US (13/339,233) 2011-12-28

[11] **2,825,999**
[13] C

[51] **Int.Cl. B65D 85/804 (2006.01) A47J 31/06 (2006.01) A47J 31/36 (2006.01)**

[25] EN

[54] **CAPSULES AND DISPENSING MACHINE**

[54] **CAPSULES ET DISTRIBUTEUR**

[72] BARTOLI, ANDREA, IT
[72] CAPITINI, DAVIDE, IT
[72] BARBIERI, FEDERICA, IT
[73] SARONG SOCIETA' PER AZIONI, IT
[85] 2013-07-29
[86] 2012-01-27 (PCT/IB2012/050391)
[87] (WO2012/104760)
[30] IT (BO2011A000039) 2011-01-31
[30] IT (BO2011A000040) 2011-01-31
[30] IT (BO2011A000041) 2011-01-31
[30] IT (BO2011A000042) 2011-01-31

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[11] **2,826,065**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6809 (2018.01) G01N 33/48 (2006.01)**

[25] FR

[54] **COMBINATION OF BIOMARKERS FOR DETECTING AND EVALUATING A HEPATIC FIBROSIS**

[54] **COMBINAISON DE BIOMARQUEURS POUR LA DETECTION ET L'EVALUATION D'UNE FIBROSE HEPATIQUE**

[72] WATELET, BENEDICTE, FR

[72] ASSELAH, TARIK, FR

[72] BIECHE, IVAN, FR

[72] BATXELLI, ISABELLE CATHERINE, FR

[72] JULLIAN, NATHALIE, FR

[72] VIDAUD, MICHEL, FR

[72] MARCELLIN, PATRICK, FR

[72] LAUNE, DANIEL, FR

[72] AFSHAR, MOHAMMAD, FR

[72] MATHIEU, EVE LAURE, FR

[73] ARIANA PHARMACEUTICALS, FR

[73] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, FR

[73] ASSISTANCE PUBLIQUE-HOPITAUX DE PARIS, FR

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[73] BIO-RAD EUROPE GMBH, CH

[85] 2013-07-30

[86] 2012-02-09 (PCT/EP2012/052234)

[87] (WO2012/107530)

[30] FR (1151022) 2011-02-09

[30] US (61/440,986) 2011-02-09

[11] **2,826,348**
[13] C

[51] **Int.Cl. H01M 4/134 (2010.01)**

[25] EN

[54] **NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION BATTERIES**

[54] **MATERIAU D'ELECTRODE NEGATIVE POUR LES PILES AU LITHIUM ION**

[72] SHINYA, NAOFUMI, JP

[72] MINOWA, TAKEHISA, JP

[73] SHIN-ETSU CHEMICAL CO., LTD., JP

[86] (2826348)

[87] (2826348)

[22] 2013-09-05

[30] JP (2012-196051) 2012-09-06

[11] **2,830,253**
[13] C

[51] **Int.Cl. F24F 12/00 (2006.01) F24F 11/46 (2018.01) H02J 15/00 (2006.01) H02N 2/18 (2006.01) H02N 11/00 (2006.01)**

[25] EN

[54] **A SYSTEM FOR GENERATING ELECTRICAL ENERGY FROM WASTE ENERGY**

[54] **PROCEDE DE PRODUCTION D'ENERGIE ELECTRIQUE A PARTIR D'ENERGIE RESIDUELLE**

[72] BERG, ERIC, US

[73] LENNOX INDUSTRIES INC., US

[86] (2830253)

[87] (2830253)

[22] 2013-10-17

[30] US (13/672,071) 2012-11-08

[11] **2,830,980**
[13] C

[51] **Int.Cl. C07H 21/02 (2006.01)**

[25] EN

[54] **PURIFICATION OF TRIPHOSPHORYLATED OLIGONUCLEOTIDES USING CAPTURE TAGS**

[54] **PURIFICATION D'OLIGONUCLEOTIDES TRIPHOSPHORYLES EN UTILISANT DES MARQUAGES DE CAPTURE**

[72] LUDWIG, JANOS, DE

[72] GOLDECK, MARION, DE

[72] SPROAT, BRIAN, BE

[73] RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITAT BONN, DE

[85] 2013-09-23

[86] 2012-03-28 (PCT/EP2012/055520)

[87] (WO2012/130886)

[30] EP (11160032.6) 2011-03-28

[11] **2,833,239**
[13] C

[51] **Int.Cl. G01S 7/41 (2006.01) G01N 22/00 (2006.01) G01S 13/88 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR IDENTIFYING FLUIDS AND MONITORING FLUID QUALITY IN A VESSEL**

[54] **SYSTEME ET PROCEDE POUR L'IDENTIFICATION DE FLUIDES ET LA SURVEILLANCE DE LA QUALITE DE FLUIDE DANS UNE CUVE**

[72] CARVALHO, CARLOS E., US

[72] SINNAMON, JOHN L., US

[72] MISKELL, THOMAS, US

[72] RIZZO, VINCENT J., US

[73] MEGGITT (ORANGE COUNTY), INC., US

[85] 2013-10-11

[86] 2012-04-11 (PCT/US2012/033035)

[87] (WO2012/142097)

[30] US (13/086,958) 2011-04-14

[11] **2,834,564**
[13] C

[51] **Int.Cl. A61F 2/16 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR DETERMINING INTRAOCULAR LENS POWER**

[54] **SYSTEMES ET PROCEDES DE DETERMINATION DE LA PUISSANCE D'UNE LENTILLE INTRAOCULAIRE**

[72] VAN DER MOOREN, MARRIE H., NL

[72] CANOVAS VIDAL, CARMEN, NL

[72] PIERS, PATRICIA ANN, NL

[73] AMO GRONINGEN B.V., NL

[85] 2013-10-28

[86] 2012-04-27 (PCT/US2012/035539)

[87] (WO2012/149383)

[30] US (61/480,589) 2011-04-29

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[11] **2,835,258**

[13] C

[51] **Int.Cl. A61K 39/008 (2006.01) C07K 14/44 (2006.01)**

[25] EN

[54] **MOLECULE FOR TREATING AN INFLAMMATORY DISORDER**

[54] **MOLECULE POUR TRAITER UN TROUBLE INFLAMMATOIRE**

[72] ALONSO-BEDATE, CARLOS, ES

[72] SOTO-ALVAREZ, MANUEL, ES

[72] RAMIREZ-GARCIA, LAURA, ES

[72] CARNES-SANCHEZ, JERONIMO, ES

[72] ROMAN-ESCUZIA, MARTA, ES

[73] LABORATORIOS LETI, S.L., ES

[85] 2013-11-06

[86] 2012-05-08 (PCT/EP2012/058453)

[87] (WO2012/152792)

[30] EP (11165248.3) 2011-05-09

[30] US (61/484,167) 2011-05-09

[11] **2,835,531**

[13] C

[51] **Int.Cl. F16G 11/00 (2006.01) F16B 35/00 (2006.01) F16G 11/06 (2006.01)**

[25] EN

[54] **A SECUREMENT APPARATUS**

[54] **APPAREIL DE FIXATION**

[72] HOOTI, MAHMOOD, CA

[72] ELKHAZIN, SAMI, CA

[72] ARUN, SARPUR, CA

[72] GIESSMANN, RONALD GUENTER, CA

[72] PETERMAN, KARL LUCAS, CA

[73] SWEGON NORTH AMERICA INC., CA

[86] (2835531)

[87] (2835531)

[22] 2013-11-26

[11] **2,836,285**

[13] C

[51] **Int.Cl. C08L 23/08 (2006.01) C08J 5/18 (2006.01)**

[25] EN

[54] **POLYETHYLENE BLEND COMPOSITIONS AND FILM**

[54] **COMPOSITIONS DE MELANGE DE POLYETHYLENE ET FILM**

[72] LAM, PATRICK, CA

[72] KER, VICTORIA, CA

[72] GRABOW, KAREN, CA

[73] NOVA CHEMICALS CORPORATION, CA

[86] (2836285)

[87] (2836285)

[22] 2013-12-12

[30] CA (2,800,056) 2012-12-24

[11] **2,839,615**

[13] C

[51] **Int.Cl. A47K 5/12 (2006.01) B67D 7/84 (2010.01) A47F 1/04 (2006.01)**

[25] EN

[54] **DISPENSER COVER RETENTION ARRANGEMENT**

[54] **ARRANGEMENT DE RETENUE DE COUVERCLE DE DISTRIBUTEUR**

[72] OPHARDT, HEINER, CH

[72] JONES, ANDREW, CA

[73] OP-HYGIENE IP GMBH, CH

[86] (2839615)

[87] (2839615)

[22] 2014-01-06

[11] **2,839,702**

[13] C

[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/58 (2006.01)**

[25] EN

[54] **IDENTIFYING PEPTIDES AT THE SINGLE MOLECULE LEVEL**

[54] **IDENTIFIERS DES PEPTIDES AU NIVEAU D'UNE SEULE MOLECULE**

[72] MARCOTTE, EDWARD, US

[72] SWAMINATHAN, JAGANNATH, IN

[72] ELLINGTON, ANDREW, US

[72] ANSLYN, ERIC, US

[73] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US

[85] 2013-12-17

[86] 2012-06-22 (PCT/US2012/043769)

[87] (WO2012/178023)

[30] US (61/500,525) 2011-06-23

[11] **2,841,039**

[13] C

[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C12N 5/10 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **MULTISPECIFIC ANTIBODIES**

[54] **ANTICORPS MULTISPECIFIQUES**

[72] KADOUCHE, JEAN, FR

[72] MACH, JEAN-PIERRE, CH

[72] MICHELIN, OLIVIER, CH

[72] ZOETE, VINCENT, CH

[72] IWASZKIEWICZ, JUSTYNA, CH

[72] CERUTTI, MARTINE, FR

[72] CHOBLET, SYLVIE, FR

[72] GOLAY, JOSEE, IT

[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR

[73] AZIENDA OSPEDALIERA PAPA GIOVANNI XXIII, IT

[73] UNIVERSITE DE LAUSANNE, CH

[85] 2014-01-06

[86] 2012-07-06 (PCT/IB2012/053482)

[87] (WO2013/005194)

[30] EP (11305872.1) 2011-07-07

[11] **2,842,987**

[13] C

[51] **Int.Cl. B65F 1/14 (2006.01) B65D 43/26 (2006.01) B65F 1/00 (2006.01) B65F 1/16 (2006.01)**

[25] EN

[54] **RECEPTACLE WITH MOTION DAMPER NEAR LID**

[54] **RECIPIENT AVEC AMORTISSEUR DE VIBRATIONS PRES DU COUVERCLE**

[72] YANG, FRANK, US

[72] CHANG, DI-FONG, US

[72] SANDOR, JOSEPH, US

[73] SIMPLEHUMAN, LLC, US

[86] (2842987)

[87] (2842987)

[22] 2014-02-17

[30] US (13/783,149) 2013-03-01

[11] **2,840,466**

[13] C

[51] **Int.Cl. B60C 23/02 (2006.01) B60R 16/023 (2006.01)**

[25] EN

[54] **DIVERSITY ANTENNA**

[54] **ANTENNE DE RECEPTION EN DIVERSITE**

[72] PATTERSON, ROBERT, CA

[72] SHEIKH-BAHAIE, KIAN, CA

[72] LAMMERS, SHAWN D., CA

[73] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US

[86] (2840466)

[87] (2840466)

[22] 2014-01-22

[30] US (13/754,255) 2013-01-30

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[11] **2,844,501**
[13] C

[51] **Int.Cl. A61L 24/08 (2006.01)**
[25] EN
[54] **COMPOSITION FOR FORMING A
TEMPORARY INTESTINAL
OCCLUSION IN A MAMMAL**
[54] **COMPOSITION POUR LA
REALISATION D'UNE
OCCLUSION INTESTINALE
TEMPORAIRE**
[72] BISCHOF, GEORG, AT
[73] BISCHOF, GEORG, AT
[85] 2014-02-07
[86] 2012-07-12 (PCT/AT2012/050102)
[87] (WO2013/006886)
[30] AT (A 1026/2011) 2011-07-13

[11] **2,844,691**
[13] C

[51] **Int.Cl. E06B 9/01 (2006.01) A01M
29/30 (2011.01) E04F 17/02 (2006.01)
E04F 19/00 (2006.01) F24F 13/20
(2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR
VENT PROTECTION
ENCLOSURES**
[54] **SYSTEMES ET PROCEDES POUR
ENCEINTES DE PROTECTION
D'EVENT**
[72] COUTO, WALLY, CA
[73] COUTO, WALLY, CA
[86] (2844691)
[87] (2844691)
[22] 2014-02-28
[30] US (61/831732) 2013-06-06

[11] **2,845,753**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K
31/4162 (2006.01) A61K 31/4188
(2006.01) A61P 9/12 (2006.01)**
[25] EN
[54] **BICYCLIC HETEROCYCLE
DERIVATIVES FOR THE
TREATMENT OF PULMONARY
ARTERIAL HYPERTENSION**
[54] **DERIVES HETEROCYCLIQUES
BICYCLIQUES POUR LE
TRAITEMENT D'UNE
HYPERTENSION ARTERIELLE
PULMONAIRE**
[72] BRUCE, IAN, GB
[72] CHAMOIN, SYLVIE, CH
[72] COLLINGWOOD, STEPHEN PAUL,
GB

[72] FURET, PASCAL, CH
[72] FURMINGER, VIKKI, GB
[72] LEWIS, SARAH, GB
[72] LOREN, JON CHRISTOPHER, US
[72] MOLteni, VALENTINA, US
[72] SAUNDERS, ALEX MICHAEL, GB
[72] SHAW, DUNCAN, GB
[72] SVIRIDENKO, LILYA, GB
[72] THOMSON, CHRISTOPHER, GB
[72] YEH, VINCE, US
[72] JANUS, DIANA, GB
[72] WEST, RYAN, GB
[73] NOVARTIS AG, CH
[85] 2014-02-19
[86] 2012-08-31 (PCT/IB2012/054501)
[87] (WO2013/030802)
[30] US (61/530,049) 2011-09-01
[30] US (61/680,119) 2012-08-06

[11] **2,846,178**
[13] C

[51] **Int.Cl. B25C 5/10 (2006.01) B25C 5/16
(2006.01)**
[25] EN
[54] **FASTENING TOOL ASSEMBLY**
[54] **ENSEMBLE OUTIL DE FIXATION**
[72] SOKOL, JONATHAN, US
[72] MALANGA, GREGG, US
[73] ARROW FASTENER CO., LLC, US
[86] (2846178)
[87] (2846178)
[22] 2014-03-14
[30] US (13/834,951) 2013-03-15

[11] **2,847,263**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61P
31/16 (2006.01) C07K 16/10 (2006.01)**
[25] EN
[54] **INFLUENZA VIRUS ANTIBODY
COMPOSITIONS**
[54] **COMPOSITIONS D'ANTICORPS
CONTRE LE VIRUS DE LA
GRIPPE**
[72] HUFTON, SIMON, GB
[73] THE SECRETARY OF STATE FOR
HEALTH AND SOCIAL CARE, GB
[85] 2014-02-28
[86] 2012-09-03 (PCT/GB2012/052164)
[87] (WO2013/030604)
[30] GB (1115214.7) 2011-09-02

[11] **2,848,038**
[13] C

[51] **Int.Cl. A61K 36/82 (2006.01) A61K
31/192 (2006.01) A61K 36/53
(2006.01) A61K 36/537 (2006.01)
A61P 39/06 (2006.01)**
[25] EN
[54] **ANTIOXIDANT FORMULATIONS**
[54] **FORMULATIONS
D'ANTIOXYDANTS**
[72] CUTLER, SARA, US
[72] SZAJNA-FULLER, EWA, US
[72] ROTBERG, ISABELLA, US
[72] WRAY, CARRIE, US
[72] TRUONG, MY, US
[72] POSS, MITCHELL, US
[73] KEMIN INDUSTRIES, INC., US
[85] 2014-03-06
[86] 2012-09-10 (PCT/US2012/054466)
[87] (WO2013/036934)
[30] US (61/532,859) 2011-09-09

[11] **2,848,789**
[13] C

[51] **Int.Cl. C10G 1/04 (2006.01)**
[25] EN
[54] **PROCESS FOR TREATING MINED
OIL SANDS DEPOSITS**
[54] **PROCEDE DE TRAITEMENT DE
DEPOTS DE SABLES
BITUMINEUX EXPLOITES**
[72] REMESAT, DARIUS SIMON JOHN,
CA
[72] BLANCO, ALVARO, CA
[73] CANADIAN NATURAL
RESOURCES LIMITED, CA
[86] (2848789)
[87] (2848789)
[22] 2014-04-14
[30] US (61/813,356) 2013-04-18
[30] CA (2,819,073) 2013-04-19

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[11] **2,849,196**
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/02 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **BINDING MOLECULES FOR BCMA AND CD3**

[54] **MOLECULES DE LIAISON POUR BCMA ET CD3**

[72] KUFER, PETER, DE
[72] RAUM, TOBIAS, DE
[72] HOFFMANN, PATRICK, DE
[72] KISCHEL, ROMAN, DE
[72] LUTTERBUESE, RALF, DE
[72] RAU, DORIS, DE
[72] ADAM, PAUL, DE
[72] BORGES, ERIC, DE
[72] HEBEIS, BARBARA, DE
[72] HIPPE, SUSANNE, DE
[73] AMGEN RESEARCH (MUNICH) GMBH, DE
[73] AMGEN INC., US
[85] 2014-03-19
[86] 2012-11-15 (PCT/EP2012/072699)
[87] (WO2013/072406)
[30] US (61/560,144) 2011-11-15
[30] US (61/560,149) 2011-11-15
[30] US (61/560,162) 2011-11-15
[30] US (61/560,178) 2011-11-15
[30] US (61/560,183) 2011-11-15
[30] US (61/651,486) 2012-05-24
[30] US (61/651,474) 2012-05-24

[11] **2,850,261**
[13] C

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **C-MET IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS**

[54] **DOMAINES DE VARIABLE SIMPLE D'IMMUNOGLOBULINE C-MET**

[72] BESTE, GERALD, BE
[72] HERMANS, GUY, BE
[72] STEFFENSEN, SOREN, BE
[72] SZYROKI, ALEXANDER, DE
[72] VERVERKEN, CEDRIC JOZEF NEOTERE, BE
[72] DENAYER, TINNEKE, BE
[73] ABLYNX NV, BE
[85] 2014-03-27
[86] 2012-10-01 (PCT/EP2012/069373)
[87] (WO2013/045707)
[30] US (61/541,368) 2011-09-30
[30] US (13/435,567) 2012-03-30

[11] **2,851,109**
[13] C

[51] **Int.Cl. F24F 7/02 (2006.01) E04D 13/17 (2006.01)**

[25] EN

[54] **ROOF VENT**

[54] **EVENT DE TOIT**

[72] BOURQUE, ANTOINE, CA
[72] MOO TOO, STEPHEN DEVAN, CA
[73] SNOWVENTCO LIMITED, CA
[86] (2851109)
[87] (2851109)
[22] 2014-05-07

[11] **2,851,615**
[13] C

[51] **Int.Cl. B60W 40/10 (2012.01)**

[25] EN

[54] **WARNING AND GUIDANCE SYSTEM TO ASSIST THE PARKING OF LARGE VEHICLES**

[54] **MECANISME D'AVERTISSEMENT ET D'ORIENTATION SERVANT A AIDER AU STATIONNEMENT DE GRANDS VEHICULES**

[72] ANSTETT, DEBORAH, US
[73] ANSTETT, DEBORAH, US
[86] (2851615)
[87] (2851615)
[22] 2014-05-12
[30] US (61/978,051) 2014-04-10

[11] **2,851,695**
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6813 (2018.01) C12Q 1/6837 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6888 (2018.01) A01K 67/02 (2006.01) C07K 16/18 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01)**

[25] EN

[54] **FISH SELECTION FOR IMPROVED TRAITS BASED ON THE DETECTION OF SEQUENCE VARIATIONS IN GENES**

[54] **SELECTION DE POISSONS POUR LEURS TRAITS AMELIORES EN SE BASANT SUR LA DETECTION DE VARIATIONS DE SEQUENCES DANS LES GENES**

[72] JOHNSTON, IAN ALISTAIR, GB
[72] ASHTON, THOMAS JAMES, GB
[73] UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS, GB
[85] 2014-04-09
[86] 2012-10-10 (PCT/GB2012/052509)
[87] (WO2013/054107)
[30] GB (1117448.9) 2011-10-10

[11] **2,852,494**
[13] C

[51] **Int.Cl. B64C 9/02 (2006.01) B64C 7/00 (2006.01) B64C 9/38 (2006.01)**

[25] EN

[54] **AIR SEAL ASSEMBLY FOR AIRCRAFT FLAP SEAL**

[54] **ENSEMBLE JOINT ETANCHE A L'AIR POUR DISPOSITIF D'ETANCHEITE DE VOLET POUR AERONEF**

[72] FOSTER, SCOTT, US
[72] DEMAREST, HAROLD, US
[72] SUGI, EIJI, US
[73] ALASKA AIRLINES, INC., US
[86] (2852494)
[87] (2852494)
[22] 2014-05-22
[30] US (61/826947) 2013-05-23
[30] US (14/284356) 2014-05-21

[11] **2,852,950**
[13] C

[51] **Int.Cl. C12M 3/06 (2006.01) C12N 5/07 (2010.01) C12M 1/12 (2006.01) C12M 3/04 (2006.01) C12N 1/00 (2006.01) C40B 40/02 (2006.01)**

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[54] **LAYERED MICROFLUIDIC LIVING CELL ARRAY**

[54] **RESEAU DE CELLULES VIVANTES MICROFLUIDIQUE EN COUCHES**

[72] WANG, SIHONG, US
[72] DERELI-KORKUT, ZEYNEP, US
[72] JIANG, XUEJUN, US
[73] RESEARCH FOUNDATION OF THE CITY UNIVERSITY OF NEW YORK, US
[73] MEMORIAL SLOAN KETTERING CANCER CENTER, US
[85] 2014-04-17
[86] 2012-10-20 (PCT/US2012/061229)
[87] (WO2013/059755)
[30] US (61/549,322) 2011-10-20

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[11] **2,853,366**
[13] C

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[54] **QUINOLINES AS FGFR KINASE MODULATORS**

[54] **QUINOLINES COMME MODULATEURS DE LA FGFR KINASE**

[72] BERDINI, VALERIO, GB

[72] ANGIBAUD, PATRICK RENE, FR

[72] WOODHEAD, STEVEN JOHN, US

[72] SAXTY, GORDON, HR

[73] ASTEX THERAPEUTICS LIMITED, GB

[85] 2014-04-24

[86] 2012-10-26 (PCT/GB2012/052666)

[87] (WO2013/061074)

[30] GB (1118652.5) 2011-10-28

[30] US (61/552,880) 2011-10-28

[11] **2,855,446**
[13] C

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[25] EN

[54] **THIENOPYRIMIDINE INHIBITORS OF ATYPICAL PROTEIN KINASE C**

[54] **INHIBITEURS DE TYPE THIENOPYRIMIDINE DE PROTEINES KINASES C ATYPIQUES**

[72] DORSEY, BRUCE D., US

[72] LEARN, KEITH S., US

[72] MORRIS, EMMA L., GB

[72] OTT, GREGORY R., US

[72] ROFFEY, JONATHAN R., GB

[72] SOUDY, CHRISTELLE N., GB

[72] WAGNER, JASON C., US

[73] CANCER RESEARCH TECHNOLOGY LIMITED, GB

[85] 2014-05-09

[86] 2012-11-19 (PCT/US2012/065831)

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[30] US (61/563,310) 2011-11-23

[11] **2,856,583**
[13] C

[51] **Int.Cl. A61J 1/00 (2006.01) A61F 5/44 (2006.01) A61M 25/00 (2006.01) A61M 39/08 (2006.01) B65D 85/20 (2006.01)**

[25] EN

[54] **MALE URINARY CATHETER PACKAGE**

[54] **DISPOSITIF DE CATHETER URINAIRE POUR HOMME**

[72] TJASSENS, NATHALIE, NL

[72] VAN GRONINGEN, DAVID, NL

[72] VAN VELTHOVEN, AD, NL

[73] CURE MEDICAL LLC, US

[86] (2856583)

[87] (2856583)

[22] 2014-07-10

[30] EP (13176283.3) 2013-07-12

[11] **2,857,012**
[13] C

[51] **Int.Cl. H01R 4/58 (2006.01) H01B 9/00 (2006.01) H01R 4/28 (2006.01)**

[25] EN

[54] **CONDUCTOR CONNECTORS FOR POWER CABLES**

[54] **CONNECTEURS DE CONDUCTEURS POUR CABLES D'ALIMENTATION**

[72] MORBY, LUKE, GB

[72] SPILLER, DARREN MICHAEL, GB

[72] COX, STUART, GB

[73] PRYSMIAN CABLES & SYSTEMS LIMITED, GB

[86] (2857012)

[87] (2857012)

[22] 2014-07-17

[30] GB (1313290.7) 2013-07-25

[11] **2,858,221**
[13] C

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[25] EN

[54] **NOVEL COMPLEXES OF WATER-SOLUBLE POLYMERS, AND USES THEREOF**

[54] **NOUVEAUX COMPLEXES DE POLYMERES HYDROSOLUBLES ET LEURS UTILISATIONS**

[72] HUND, RENE, FR

[72] FAUCHER, GATIEN, FR

[72] FOUGEROUSSE, DAMIEN, FR

[73] S.P.C.M. SA, FR

[86] (2858221)

[87] (2858221)

[22] 2014-07-30

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[13] C

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[54] **DRAINAGE CATHETER WITH SLIDING CLOSURE MEMBER**

[54] **CATHETER DE DRAINAGE AVEC OBTURATEUR COULISSANT**

[72] GLICKMAN, SCOTT, GB

[72] SHAPLAND, HOWARD, GB

[73] UROPHARMA LIMITED, GB

[85] 2014-06-05

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[30] GB (1118126.0) 2011-10-20

[11] **2,858,469**
[13] C

[51] **Int.Cl. F03B 13/26 (2006.01) F03B 17/06 (2006.01)**

[25] EN

[54] **WATER CURRENT POWER GENERATION INSTALLATIONS**

[54] **INSTALLATIONS DE PRODUCTION D'ENERGIE ELECTRIQUE HYDRAULIQUE**

[72] PALETHORPE, BENJAMIN, GB

[73] GE ENERGY (UK) LIMITED, GB

[85] 2014-06-06

[86] 2012-12-19 (PCT/EP2012/076114)

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[30] GB (1122253.6) 2011-12-23

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[13] C

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[54] **ORTHOPEDIC IMPLANT AUGMENTS**
[54] **ADJONCTIONS D'IMPLANT ORTHOPEDIQUE**
[72] SHEA, JEFFREY J., US
[72] QUINN, NATHANIEL M., US
[72] GOLDBERG, DANIEL R., US
[73] SMITH & NEPHEW, INC., US
[85] 2014-06-06
[86] 2012-12-06 (PCT/US2012/068219)
[87] (WO2013/086172)
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[25] EN
[54] **PROGRESSIVE VORTEX PUMP**
[54] **POMPE A CANAUX PROGRESSIVE**
[72] GEREMIA, SILVINO, BR
[73] HIGRA INDUSTRIAL LTDA., BR
[86] (2859250)
[87] (2859250)
[22] 2014-08-12

[11] **2,859,755**
[13] C

[51] **Int.Cl. C07K 16/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) C12N 15/13 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **ENGINEERED ANTIBODY CONSTANT REGIONS FOR SITE-SPECIFIC CONJUGATION AND METHODS AND USES THEREFOR**
[54] **REGIONS CONSTANTES D'ANTICORPS MODIFIES POUR CONJUGAISON SPECIFIQUE A UN SITE, ET LEURS PROCEDES ET UTILISATIONS**
[72] MARQUETTE, KIMBERLY, US
[72] BENNETT, ERIC, US
[72] TCHISTIAKOVA, LIOUDMILA, US
[72] TUMEY, L. NATHAN, US
[72] BIKKER, JACK, US
[72] CALABRO, VALERIE, FR
[72] GRAZIANI, EDMUND, US
[73] PFIZER INC., US
[85] 2014-06-18
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[11] **2,861,255**
[13] C

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[54] **VIDEO DECODING METHODS AND VIDEO ENCODING METHODS**
[54] **PROCEDES DE DECODAGE VIDEO ET PROCEDES DE CODAGE VIDEO**
[72] DESHPANDE, SACHIN G., US
[72] SEGALL, CHRISTOPHER A., US
[73] VELOS MEDIA INTERNATIONAL LIMITED, IE
[85] 2014-06-25
[86] 2013-01-25 (PCT/JP2013/000397)
[87] (WO2013/111605)
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[11] **2,865,090**
[13] C

[51] **Int.Cl. A47G 19/02 (2006.01) A47G 21/08 (2006.01)**
[25] EN
[54] **ASSISTED EATING AID**
[54] **DISPOSITIF D'ALIMENTATION ASSISTEE**
[72] REICHEL, KURT, US
[73] REICHEL, KURT, US
[86] (2865090)
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[22] 2014-09-24
[30] US (61/885,194) 2013-10-01

[11] **2,866,175**
[13] C

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[25] EN
[54] **CELL BASED QUALITY CONTROL BIOASSAYS FOR NUTRICEUTICAL AND MEDICINAL PRODUCTS**
[54] **DOSAGES BIOLOGIQUES DE CONTROLE QUALITE A BASE DE CELLULES POUR DES PRODUITS NUTRACEUTIQUES ET MEDICINAUX**
[72] HALPERIN, JOSE A., US
[72] CHOREV, MICHAEL, US
[72] AKTAS, HUSEYIN, US
[73] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2014-09-02
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[25] EN

[54] **SYSTEM FOR CHEMICALLY ABSORBING CARBON DIOXIDE IN COMBUSTION EXHAUST GAS**

[54] **SYSTEME POUR ABSORBER CHIMIQUEMENT DU DIOXYDE DE CARBONE DANS UN GAZ D'ECHAPPEMENT DE COMBUSTION**

[72] HIGASHI, HIDEAKI, JP
[72] SHIMAMURA, JUN, JP
[72] KOBAYASHI, KAZUKI, JP
[73] MITSUBISHI POWER, LTD., JP
[85] 2014-09-04
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[30] JP (2012-047958) 2012-03-05

[11] **2,867,112**
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[25] EN

[54] **STEVIOL GLUCOSYLTRANSFERASES AND GENES ENCODING THE SAME**

[54] **GLYCOSYLTRANSFERASE DE STEVIOL ET GENE CODANT CORRESPONDANT**

[72] ONO, EIICHIRO, JP
[72] OCHIAI, MISA, JP
[73] SUNTORY HOLDINGS LIMITED, JP
[85] 2014-09-11
[86] 2013-03-14 (PCT/JP2013/058189)
[87] (WO2013/137487)
[30] JP (2012-060473) 2012-03-16

[11] **2,871,337**
[13] C

[51] **Int.Cl. C12N 5/0797 (2010.01) C12N 5/0793 (2010.01) G01N 33/48 (2006.01)**

[25] EN

[54] **DERIVATION OF NEURAL STEM CELLS AND DOPAMINERGIC NEURONS FROM HUMAN PLURIPOTENT STEM CELLS**

[54] **OBTENTION DE CELLULES SOUCHES NEURONALES ET DE NEURONES DOPAMINERGIQUES A PARTIR DE CELLULES SOUCHES PLURIPOTENTES HUMAINES**

[72] GONZALEZ, RODOLFO, US
[72] GARITAONANDIA, IBON, US
[72] SEMECHKIN, RUSLAN, US
[73] INTERNATIONAL STEM CELL CORPORATION, US
[85] 2014-10-22
[86] 2013-04-23 (PCT/US2013/037860)
[87] (WO2013/163228)
[30] US (61/637,784) 2012-04-24
[30] US (61/637,797) 2012-04-24

[11] **2,871,597**
[13] C

[51] **Int.Cl. C07K 19/00 (2006.01) C07K 14/07 (2006.01) C07K 16/00 (2006.01) C12N 7/01 (2006.01) C12N 15/62 (2006.01) C12Q 1/70 (2006.01) C40B 30/04 (2006.01) C40B 40/02 (2006.01) C40B 40/10 (2006.01) C40B 50/06 (2006.01)**

[25] EN

[54] **FUSION PROTEINS TO FACILITATE SELECTION OF CELLS INFECTED WITH SPECIFIC IMMUNOGLOBULIN GENE RECOMBINANT VACCINIA VIRUS**

[54] **PROTEINES DE FUSION FACILITANT LA SELECTION DE CELLULES INFECTEES PAR LE VIRUS RECOMBINANT DE LA VACCINE COMPORTANT DES GENES SPECIFIQUES DES IMMUNOGLOBULINES**

[72] SMITH, ERNEST S., US
[72] PANDINA, TRACY, US
[72] CROY, LESLIE A., US
[72] PARIS, MARK, US
[72] ZAUDERER, MAURICE, US
[72] MOKSA, ANGELICA, US
[72] KIRK, RENEE, US
[73] VACCINEX, INC., US
[85] 2014-10-24
[86] 2013-04-26 (PCT/US2013/038497)
[87] (WO2013/163602)
[30] US (61/639,046) 2012-04-26
[30] US (61/732,776) 2012-12-03
[30] US (13/844,388) 2013-03-15

[11] **2,871,609**
[13] C

[51] **Int.Cl. F24H 3/04 (2006.01) F24V 40/00 (2018.01) F15B 21/0427 (2019.01) B60H 1/03 (2006.01) F02B 65/00 (2006.01) F24D 15/02 (2006.01)**

[25] EN

[54] **FLAMELESS HEATING SYSTEM**

[54] **SYSTEME DE CHAUFFAGE SANS FLAMME**

[72] WELLE, TRAVIS G., US
[72] LEINGANG, MARK R., US
[73] MAC, INC., US
[85] 2014-10-24
[86] 2013-04-25 (PCT/US2013/038234)
[87] (WO2013/163440)
[30] US (13/458,489) 2012-04-27

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[11] **2,871,909**
[13] C

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[25] EN

[54] **BINDING PROTEINS HAVING TETHERED LIGHT CHAINS**

[54] **PROTEINES DE LIAISON A CHAINES LEGERES COMPOSEES**

[72] HUNTER, MICHAEL, US

[72] SWANSON, RONALD, US

[73] JANSSEN BIOTECH, INC., US

[85] 2014-10-28

[86] 2013-04-30 (PCT/US2013/038858)

[87] (WO2013/166011)

[30] US (61/641,339) 2012-05-02

[11] **2,873,775**
[13] C

[51] **Int.Cl. A61K 47/26 (2006.01) A61K 39/245 (2006.01) A61K 47/18 (2017.01) A61P 31/22 (2006.01) A61P 37/04 (2006.01)**

[25] EN

[54] **HERPESVIRUS COMPOSITIONS AND RELATED METHODS**

[54] **COMPOSITIONS DE VIRUS HERPETIQUE ET PROCEDES ASSOCIES**

[72] ANDERSON, STEPHEN, US

[72] DELAGRAVE, SIMON, US

[72] HAMBERGER, JOHN, US

[72] LI, QINGLIAN, CA

[72] MUNDLE, SOPHIA, US

[72] RAHMAN, NAUSHEEN, CA

[73] SANOFI PASTEUR LIMITED, CA

[73] SANOFI PASTEUR BIOLOGICS, LLC, US

[85] 2014-11-14

[86] 2013-05-21 (PCT/US2013/042039)

[87] (WO2013/177172)

[30] US (61/649,884) 2012-05-21

[30] US (61/792,913) 2013-03-15

[11] **2,874,645**
[13] C

[51] **Int.Cl. G05D 16/00 (2006.01) G05B 23/02 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS TO CONTROL AND/OR MONITOR A PNEUMATIC ACTUATOR**

[54] **PROCEDES ET APPAREIL DE COMMANDE ET/OU DE SURVEILLANCE D'UN ACTIONNEUR PNEUMATIQUE**

[72] JENSEN, KURTIS KEVIN, US

[73] FISHER CONTROLS INTERNATIONAL LLC, US

[85] 2014-11-24

[86] 2013-06-06 (PCT/US2013/044411)

[87] (WO2013/184863)

[30] US (13/492,045) 2012-06-08

[11] **2,876,063**
[13] C

[51] **Int.Cl. C07D 311/72 (2006.01) C08J 3/00 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **STABILIZER COMPOSITIONS CONTAINING SUBSTITUTED CHROMAN COMPOUNDS AND METHODS OF USE**

[54] **COMPOSITIONS STABILISATRICES CONTENANT DES COMPOSES CHROMANNE SUBSTITUES ET METHODES D'UTILISATION ASSOCIEES**

[72] GUPTA, RAM, US

[72] SAMUELS, SARI-BETH, US

[72] ENG, J. MON HEI, US

[72] STEELE, THOMAS, US

[73] CYTEC TECHNOLOGY CORP., US

[85] 2014-12-08

[86] 2013-06-12 (PCT/US2013/045318)

[87] (WO2013/188490)

[30] US (13/495,109) 2012-06-13

[11] **2,876,386**
[13] C

[51] **Int.Cl. B01D 37/02 (2006.01) B01D 15/08 (2006.01) B01D 65/08 (2006.01) B01D 71/02 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEMS, AND METHODS FOR FLUID FILTRATION**

[54] **APPAREIL, SYSTEMES ET PROCEDES POUR LA FILTRATION DE FLUIDES**

[72] BUTTERS, BRIAN E., CA

[72] POWELL, ANTHONY L., CA

[72] PEARCE, JOHN D., CA

[73] BUTTERS, BRIAN E., CA

[85] 2014-12-11

[86] 2013-06-11 (PCT/IB2013/001875)

[87] (WO2013/186631)

[30] US (61/658,186) 2012-06-11

[30] US (61/679,410) 2012-08-03

[11] **2,877,350**
[13] C

[51] **Int.Cl. G02C 7/04 (2006.01) G02B 3/14 (2006.01) G02C 7/08 (2006.01)**

[25] EN

[54] **VARIABLE FOCUS ELECTROACTIVE OPHTHALMIC DEVICE**

[54] **DISPOSITIF OPHTALMIQUE ELECTRIQUEMENT ACTIF A FOYER VARIABLE**

[72] OTTS, DANIEL, US

[72] PUGH, RANDALL, US

[72] RIALI, JAMES, US

[72] FLITSCH, FREDERICK, US

[72] TONER, ADAM, US

[73] JOHNSON & JOHNSON VISION CARE, INC., US

[85] 2014-12-18

[86] 2013-06-27 (PCT/US2013/048194)

[87] (WO2014/004836)

[30] US (61/666,136) 2012-06-29

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[11] **2,878,353**
[13] C

[51] **Int.Cl. A61K 47/26 (2006.01) A61K 9/19 (2006.01)**
[25] EN
[54] **A METHOD TO PRODUCE A MEDICINAL PRODUCT COMPRISING A BIOLOGICALLY ACTIVE PROTEIN AND THE RESULTING PRODUCT**
[54] **PROCEDE POUR PRODUIRE UN PRODUIT MEDICINAL COMPRENANT UNE PROTEINE BIOLOGIQUEMENT ACTIVE ET PRODUIT AINSI OBTENU**
[72] O'CONNELL, KEVIN, US
[72] BUCHANAN, SANDHYA, US
[73] INTERVET INTERNATIONAL B.V., NL
[85] 2015-01-05
[86] 2013-07-09 (PCT/EP2013/064422)
[87] (WO2014/009328)
[30] US (61/669,797) 2012-07-10

[11] **2,878,578**
[13] C

[51] **Int.Cl. A61M 25/10 (2013.01) A61M 25/098 (2006.01)**
[25] EN
[54] **BALLOON CATHETER WITH ENHANCED LOCATABILITY**
[54] **CATHETER A BALLON POUVANT ETRE LOCALISE DE MANIERE AMELIOREE**
[72] BEASLEY, JIM C., US
[72] KLOCKE, STEPHANIE, US
[72] RAJI-KUBBA, ABTIHAL, US
[72] RIGHI, ROB, US
[73] CLEARSTREAM TECHNOLOGIES LIMITED, IE
[85] 2015-01-07
[86] 2013-07-24 (PCT/US2013/051863)
[87] (WO2014/018659)
[30] US (61/675,168) 2012-07-24
[30] US (61/788,938) 2013-03-15

[11] **2,879,329**
[13] C

[51] **Int.Cl. C21D 6/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/22 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR TREATING A STEEL ARTICLE**
[54] **PROCEDE ET APPAREIL DE TRAITEMENT D'UN ARTICLE EN ACIER**
[72] BATISTE, JOHN, US
[72] ZYRA, TODD, US
[72] NICHOLSON, BRENT, US
[72] SLOAN, JIM, US
[72] COOPER, BRAD, US
[72] SPARLING, JOHN, US
[72] TUREK, MARK, US
[72] HASELKORN, MIKE, US
[73] BUFFALO ARMORY LLC, US
[85] 2015-01-16
[86] 2013-06-19 (PCT/US2013/046506)
[87] (WO2013/192282)
[30] US (61/661,540) 2012-06-19
[30] US (13/838,693) 2013-03-15

[11] **2,879,731**
[13] C

[51] **Int.Cl. A01C 7/18 (2006.01) A01C 7/00 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS AND APPARATUS FOR MULTI-ROW AGRICULTURAL IMPLEMENT CONTROL AND MONITORING**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE COMMANDE ET DE SURVEILLANCE DE MACHINE AGRICOLE MULTIRANGS**
[72] BAURER, PHIL, US
[72] SAUDER, TIM, US
[72] STOLLER, JASON, US
[72] SAUDER, DEREK, US
[72] HODEL, JEREMY, US
[73] PRECISION PLANTING LLC, US
[85] 2015-01-21
[86] 2013-07-25 (PCT/US2013/051971)
[87] (WO2014/018717)
[30] US (61/675,714) 2012-07-25

[11] **2,879,819**
[13] C

[51] **Int.Cl. G06F 21/72 (2013.01) G06F 11/30 (2006.01) G06F 12/14 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS AND APPARATUSES FOR SECURE TIME MANAGEMENT**
[54] **SYSTEMES, PROCEDES ET APPAREILS POUR GESTION DE TEMPS SECURISEE**
[72] IGNATCHENKO, SERGEY, AT
[72] IVANCHYKHIN, DMYTRO, UA
[73] OLOGN TECHNOLOGIES AG, LI
[85] 2014-12-17
[86] 2013-06-18 (PCT/IB2013/001275)
[87] (WO2013/190363)
[30] US (61/661,248) 2012-06-18
[30] US (13/920,299) 2013-06-18

[11] **2,880,191**
[13] C

[51] **Int.Cl. C07H 15/04 (2006.01) A61K 31/7028 (2006.01) A61P 3/10 (2006.01) A61P 11/06 (2006.01) A61P 31/04 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61P 37/08 (2006.01)**
[25] EN
[54] **SPHINGOGLYCOLIPID ANALOGUES AS THERAPEUTIC AGENTS**
[54] **ANALOGUES DE SPHINGOGLYCOLIPIDES A TITRE D'AGENTS THERAPEUTIQUES**
[72] COMPTON, BENJAMIN JASON, NZ
[72] HAYMAN, COLIN MALCOLM, NZ
[72] HERMANS, IAN FRANCIS, NZ
[72] LARSEN, DAVID SAMUEL, NZ
[72] PAINTER, GAVIN FRANK, NZ
[72] ANDERSON, REGAN JAMES, NZ
[73] VICTORIA LINK LIMITED, NZ
[85] 2015-01-26
[86] 2013-07-26 (PCT/NZ2013/000133)
[87] (WO2014/017928)
[30] NZ (601473) 2012-07-26

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- [25] EN
- [54] **PHARMACEUTICAL COMBINATION COMPRISING A PHOSPHATIDYLINOSITOL 3-KINASE INHIBITOR AND AN AROMATASE INHIBITOR**
- [54] **COMBINAISON PHARMACEUTIQUE COMPRENANT UN INHIBITEUR DE PHOSPHATIDYLINOSITOL 3-KINASE ET UN INHIBITEUR D'AROMATASE**
- [72] GOLDBRUNNER, MICHAEL, CH
- [72] HUANG, XIZHONG, US
- [73] NOVARTIS AG, CH
- [85] 2015-01-28
- [86] 2013-09-18 (PCT/US2013/060292)
- [87] (WO2014/047109)
- [30] US (61/703,533) 2012-09-20
- [30] US (61/708,070) 2012-10-01

[11] **2,881,247**

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- [25] EN
- [54] **DETACHABLE TRACTION SYSTEM FOR ENDLESS TRACK VEHICLES**
- [54] **MECANISME DE TRACTION AMOVIBLE POUR VEHICULES A CHENILLE**
- [72] BLACKBURN, BRAD, CA
- [73] BLACKBURN, BRAD, CA
- [86] (2881247)
- [87] (2881247)
- [22] 2015-02-04

[11] **2,881,979**

[13] C

- [51] **Int.Cl. H02K 31/00 (2006.01)**
- [25] EN
- [54] **A DC MOTOR/GENERATOR WITH ENHANCED PERMANENT MAGNET FLUX DENSITIES**
- [54] **UN MOTEUR CC/GENERATEUR AYANT DES DENSITES AMELIOREES DE FLUX D'AIMANT PERMANENT**
- [72] HUNSTABLE, FRED E., US
- [73] LINEAR LABS, INC., US
- [85] 2014-09-16
- [86] 2013-03-20 (PCT/US2013/033198)
- [87] (WO2013/142629)
- [30] US (61/613,022) 2012-03-20

[11] **2,882,207**

[13] C

- [51] **Int.Cl. B61L 23/00 (2006.01)**
- [25] EN
- [54] **METHOD AND SYSTEM FOR TRANSMITTING ENFORCEABLE INSTRUCTIONS IN POSITIVE TRAIN CONTROL SYSTEMS**
- [54] **PROCEDE ET SYSTEME POUR TRANSMETTRE DES INSTRUCTIONS EXECUTOIRES DANS DES SYSTEMES DE COMMANDE INTEGRALE DES TRAINS**
- [72] RUHLAND, KRISTOFER M., US
- [72] SHAW, KAREN A., US
- [72] FENSKE, JAMES L., US
- [73] WABTEC HOLDING CORP., US
- [85] 2015-02-13
- [86] 2013-09-20 (PCT/US2013/060910)
- [87] (WO2014/047434)
- [30] US (61/703,531) 2012-09-20

[11] **2,882,398**

[13] C

- [51] **Int.Cl. B67D 1/08 (2006.01) B67D 1/04 (2006.01)**
- [25] EN
- [54] **CONTAINER AND VALVE FOR A CONTAINER**
- [54] **RECIPIENT ET VANNE POUR UN RECIPIENT**
- [72] PAAUWE, ARIE MAARTEN, NL
- [72] BAX, BART JAN, NL
- [72] BLOM, HAROLD MARCEL, NL
- [73] HEINEKEN SUPPLY CHAIN B.V., NL
- [85] 2015-02-18
- [86] 2013-10-30 (PCT/NL2013/050770)
- [87] (WO2014/070003)
- [30] NL (2009731) 2012-10-30

[11] **2,882,400**

[13] C

- [51] **Int.Cl. B67D 1/08 (2006.01) B67D 1/12 (2006.01)**
- [25] EN
- [54] **BEVERAGE CONTAINER AND VALVE FOR A BEVERAGE CONTAINER**
- [54] **RECIPIENT DE BOISSON ET VALVE POUR UN RECIPIENT DE BOISSON**
- [72] PAAUWE, ARIE MAARTEN, NL
- [72] BAX, BART JAN, NL
- [72] BLOM, HAROLD MARCEL, NL
- [73] HEINEKEN SUPPLY CHAIN B.V., NL
- [85] 2015-02-18
- [86] 2013-10-30 (PCT/NL2013/050771)
- [87] (WO2014/070004)
- [30] NL (2009732) 2012-10-30

[11] **2,882,417**

[13] C

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- [25] EN
- [54] **C17-HETEROARYL DERIVATIVES OF OLEANOLIC ACID AND METHODS OF USE THEREOF**
- [54] **DERIVES C17-HETEROARYLES DE L'ACIDE OLEANOLIQUE ET LEURS PROCEDES D'UTILISATION**
- [72] JIANG, XIN, US
- [72] BENDER, CHRISTOPHER F., US
- [72] VISNICK, MELEAN, US
- [73] REATA PHARMACEUTICALS, INC., US
- [85] 2015-02-19
- [86] 2013-09-10 (PCT/US2013/059015)
- [87] (WO2014/040056)
- [30] US (61/699,199) 2012-09-10

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[25] EN
[54] **METAL-BASED THIOPHENE PHOTODYNAMIC COMPOUNDS AND THEIR USE**

[54] **COMPOSES DE THIOPHENE PHOTODYNAMIQUES A BASE DE METAL ET LEUR UTILISATION**

[72] MCFARLAND, SHERRI, CA
[73] MCFARLAND, SHERRI, CA
[85] 2014-10-15
[86] 2013-04-15 (PCT/US2013/036595)
[87] (WO2013/158550)
[30] US (61/624,391) 2012-04-15

[11] **2,883,229**
[13] C

[51] **Int.Cl. H02J 9/06 (2006.01) H02J 3/46 (2006.01)**

[25] EN
[54] **SYSTEM AND METHOD FOR EFFICIENT POWER DISTRIBUTION AND BACKUP**

[54] **SYSTEME ET PROCEDE POUR DISTRIBUTION EFFICACE D'ELECTRICITE ET ALIMENTATION DE SECOURS**

[72] JAIN, DEEPAK, US
[73] AINET REGISTRY LLC, US
[85] 2015-02-24
[86] 2013-08-07 (PCT/US2013/054003)
[87] (WO2014/031343)
[30] US (13/594,533) 2012-08-24

[11] **2,883,357**
[13] C

[51] **Int.Cl. C10L 3/10 (2006.01) B01D 53/64 (2006.01) C07C 7/152 (2006.01) E21B 43/34 (2006.01) E21B 43/40 (2006.01)**

[25] EN
[54] **PROCESS, METHOD, AND SYSTEM FOR REMOVING HEAVY METALS FROM FLUIDS**

[54] **TRAITEMENT, PROCEDE ET SYSTEME D'ELIMINATION DE METAUX LOURDS PRESENTS DANS DES FLUIDES**

[72] O'REAR, DENNIS JOHN, US
[72] COOPER, RUSSELL EVAN, US
[72] SHEU, FENG-RAN, US
[72] BELUE, JORDAN TAYLOR, US
[73] CHEVRON U.S.A. INC., US
[85] 2015-02-26
[86] 2013-08-29 (PCT/US2013/057285)
[87] (WO2014/036253)
[30] US (61/694,926) 2012-08-30

[11] **2,883,381**
[13] C

[51] **Int.Cl. A01C 1/00 (2006.01) A01C 1/02 (2006.01)**

[25] EN
[54] **METHODS TO DIFFERENTIATE AND IMPROVE GERMPASM FOR SEED EMERGENCE UNDER STRESS**

[54] **PROCEDES PERMETTANT DE DIFFERENCIER ET D'AMELIORER LE GERMOPLASME POUR LA LA LEVEE DE SEMENCES EN CONDITIONS DE STRESS**

[72] SAAB, IMAD N., US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[85] 2015-02-27
[86] 2013-08-28 (PCT/US2013/057062)
[87] (WO2014/036128)
[30] US (61/694,960) 2012-08-30
[30] US (61/782,911) 2013-03-14

[11] **2,884,062**
[13] C

[51] **Int.Cl. A61K 33/06 (2006.01) A23L 33/10 (2016.01) A23L 33/16 (2016.01) A23L 2/52 (2006.01) A61P 3/02 (2006.01) A61P 3/12 (2006.01)**

[25] EN
[54] **CITRATE-RICH CALCIUM-MAGNESIUM SUPPLEMENT AND USES THEREOF**

[54] **COMPLEMENT DE CALCIUM ET DE MAGNESIUM RICHE EN CITRATE ET SES UTILISATIONS**

[72] PAK, CHARLES Y.C., US
[72] SAKHAE, KHASHAYAR, US
[72] MOE, ORSON W., US
[73] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2015-03-03
[86] 2013-09-04 (PCT/US2013/057927)
[87] (WO2014/039477)
[30] US (61/696,662) 2012-09-04

[11] **2,884,860**
[13] C

[51] **Int.Cl. C01B 3/24 (2006.01) B01J 4/00 (2006.01) B01J 7/00 (2006.01) C01B 3/50 (2006.01)**

[25] EN
[54] **C-O-H COMPOUND PROCESSING FOR HYDROGEN OR LIQUID FUEL PRODUCTION**

[54] **TRAITEMENT DE COMPOSES C-O-H POUR PRODUIRE DE L'HYDROGENE OU UN COMBUSTIBLE LIQUIDE**

[72] WEAVER, SAMUEL C., US
[72] WEAVER, SAMUEL P., US
[72] WEAVER, DANIEL C., US
[72] HENSLEY, DANIEL L., US
[73] PROTON POWER, INC., US
[85] 2015-03-12
[86] 2012-09-18 (PCT/US2012/055922)
[87] (WO2014/046644)

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[13] C

[51] **Int.Cl. B60R 1/08 (2006.01) B60R 1/10 (2006.01) B60R 21/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROVIDING FRONT-ORIENTED VISUAL INFORMATION TO VEHICLE DRIVER**
[54] **SYSTEME ET PROCEDE DE FOURNITURE D'INFORMATIONS VISUELLES ORIENTEES VERS L'AVANT A UN CONDUCTEUR DE VEHICULE**
[72] PETRILLO, STEVEN R., US
[72] ROEGER, ROBERT MICHAEL, US
[73] KLEAR-VIEW CAMERA, LLC, US
[85] 2015-03-16
[86] 2013-08-14 (PCT/US2013/054828)
[87] (WO2014/070276)
[30] US (13/587,548) 2012-08-16
[30] US (61/860,573) 2013-07-31

[11] **2,885,696**
[13] C

[51] **Int.Cl. C22C 38/50 (2006.01) C21D 9/08 (2006.01) C21D 9/50 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01)**
[25] EN
[54] **HIGH-FREQUENCY STRAIGHT WELDED PIPE AND MANUFACTURING METHOD THEREOF**
[54] **TUBE DROIT SOUDE A HAUTE FREQUENCE ET SON PROCEDE DE FABRICATION**
[72] WANG, YIRAN, CN
[72] SHEN, JIANLAN, CN
[72] CUI, JUN, CN
[72] GU, ZHONGYING, CN
[72] WU, WENHUI, CN
[73] BAOSHAN IRON & STEEL CO., LTD., CN
[85] 2015-03-20
[86] 2013-09-26 (PCT/CN2013/084267)
[87] (WO2014/048337)
[30] CN (201210378301.9) 2012-09-29

[11] **2,885,698**
[13] C

[51] **Int.Cl. A61F 2/07 (2013.01)**
[25] EN
[54] **AORTIC ARCH DOUBLE-BARRELED MAIN BODY STENT GRAFT AND METHODS FOR USE**
[54] **ENDOPROTHESE DE CROSSE AORTIQUE A DEUX CANONS AVEC CORPS PRINCIPAL ET SES PROCEDES D'UTILISATION**
[72] KELLY, PATRICK W., US
[73] SANFORD HEALTH, US
[85] 2015-03-20
[86] 2013-04-11 (PCT/US2013/036190)
[87] (WO2013/155315)
[30] US (61/623,151) 2012-04-12
[30] US (61/646,637) 2012-05-14
[30] US (61/716,292) 2012-10-19
[30] US (61/716,326) 2012-10-19
[30] US (61/716,315) 2012-10-19
[30] US (61/720,803) 2012-10-31
[30] US (61/720,829) 2012-10-31
[30] US (61/720,846) 2012-10-31
[30] US (13/706,144) 2012-12-05
[30] US (61/737,411) 2012-12-14

[11] **2,885,998**
[13] C

[51] **Int.Cl. G05D 16/06 (2006.01)**
[25] EN
[54] **BALANCED PORT SENSE PROFILE FOR IMPROVED CAPACITY PERFORMANCE**
[54] **PROFIL DE DETECTION D'ORIFICE EQUILIBRE POUR UNE MEILLEURE PERFORMANCE DE CAPACITE**
[72] FAN, GUOLEI, CN
[72] ZHOU, BIAO, CN
[72] MEVIUS, JASON, S., US
[73] EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC., US
[85] 2015-03-23
[86] 2013-09-27 (PCT/US2013/062118)
[87] (WO2014/052720)
[30] CN (201210377053.6) 2012-09-28
[30] US (13/797,075) 2013-03-12

[11] **2,886,070**
[13] C

[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **SYSTEMS FOR SECURING SUTURES**
[54] **SYSTEMES POUR FIXER DES SUTURES**
[72] MIRAKI, MANOUCHEHR A., US
[72] DANG, KEVIN, US
[72] KWON, YOON H., US
[72] BILLER, WILLIAM, US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2015-03-25
[86] 2013-12-20 (PCT/US2013/076825)
[87] (WO2014/100545)
[30] US (61/740,769) 2012-12-21
[30] US (14/133,040) 2013-12-18

[11] **2,886,073**
[13] C

[51] **Int.Cl. E21D 11/00 (2006.01) E21D 19/04 (2006.01) E21D 23/03 (2006.01)**
[25] EN
[54] **DRILL AND BLAST METHOD AND APPARATUS FOR THE SAME**
[54] **PROCEDE DE FORAGE ET DYNAMITAGE ET APPAREIL ASSOCIE**
[72] MORRISON, DOUGLAS, CA
[73] CENTRE FOR EXCELLENCE IN MINING INNOVATION, CA
[85] 2015-03-26
[86] 2013-09-27 (PCT/CA2013/000818)
[87] (WO2014/047721)
[30] US (61/706,316) 2012-09-27

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[11] **2,886,086**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01)**
[25] EN
[54] **ORODISPERSIBLE FILMS
HAVING QUICK DISSOLUTION
TIMES FOR THERAPEUTIC AND
FOOD USE**

[54] **FILMS ORODISPERSIBLES
AYANT DES TEMPS DE
DISSOLUTION RAPIDES POUR
UN USAGE THERAPEUTIQUE ET
ALIMENTAIRE**

[72] CILURZO, FRANCESCO, IT
[72] DI GRIGOLI, MAURIZIO, IT
[72] MINGHETTI, PAOLA, IT
[72] PAGANI, STEFANIA, IT
[73] PHARMAFILM S.R.L., IT
[85] 2015-03-24
[86] 2013-09-26 (PCT/IB2013/058882)
[87] (WO2014/049548)
[30] IT (MI2012A001628) 2012-09-28

[11] **2,886,513**
[13] C

[51] **Int.Cl. A61K 31/138 (2006.01) A61P
11/00 (2006.01) A61P 11/06 (2006.01)
A61P 11/08 (2006.01)**

[25] EN
[54] **THERAPEUTIC FOR TREATING
INFLAMMATORY LUNG
DISORDERS**

[54] **ELEMENT THERAPEUTIQUE
POUR LE TRAITEMENT DES
MALADIES INFLAMMATOIRES
DESPOUMONS**

[72] RICCARDI, DANIELA, GB
[72] KEMP, PAUL JEFFREY, GB
[72] CORRIGAN, CHRISTOPHER JOHN,
GB
[72] WARD, JEREMY PATRICK
THOMAS, GB
[73] UNIVERSITY COLLEGE CARDIFF
CONSULTANTS LIMITED, GB
[73] KING'S COLLEGE LONDON, GB
[85] 2015-03-27
[86] 2013-09-25 (PCT/GB2013/052505)
[87] (WO2014/049351)
[30] GB (1217330.8) 2012-09-28

[11] **2,886,888**
[13] C

[51] **Int.Cl. A43B 13/18 (2006.01) A43B
3/00 (2006.01) A43B 7/14 (2006.01)
A43B 13/14 (2006.01)**

[25] EN
[54] **SHOE SOLE FOR GAIT
CORRECTION OR GAIT
PRESERVATION**

[54] **SEMELLE DE CHAUSSURE POUR
PERMETTRE UNE CORRECTION
DE LA DEMARCHE OU UN
MAINTIEN DE LA DEMARCHE**

[72] SCHUMACHER, TOBIAS, CH
[72] SWAGER VAN DOK, JAN, CH
[73] GVB SHOETECH AG, CH
[85] 2015-03-24
[86] 2012-07-04 (PCT/EP2012/063054)
[87] (WO2013/056864)
[30] EP (11186010.2) 2011-10-20
[30] EP (11191114.5) 2011-11-29

[11] **2,887,259**
[13] C

[51] **Int.Cl. A61B 50/00 (2016.01) A61B
17/00 (2006.01)**

[25] EN
[54] **LIMITED USE TOOL DISPOSABLE
ENCLOSURE**

[54] **LOGEMENT JETABLE D'OUTIL A
USAGE LIMITE**

[72] AMAN, PETER M., US
[72] MATTHEWS, FREDERICK N., US
[72] JONES, MATTHEW, US
[72] ACEVEDO, RICHARD, US
[72] TAGTOW, DANIEL, US
[72] MELLING, ROY, US
[73] INSURGICAL INC., US
[86] (2887259)
[87] (2887259)
[22] 2015-04-09
[30] US (14/551,080) 2014-11-24

[11] **2,888,172**
[13] C

[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **DEVICE AND PROCESS FOR
DISPENSING BEVERAGES FROM
CAPSULES**

[54] **DISPOSITIF ET PROCEDE DE
DISTRIBUTION DE BOISSONS A
PARTIR DE CAPSULES**

[72] DOGLIONI MAJER, CARLO, IT
[73] RHEAVENDORS SERVICES S.P.A.,
IT
[85] 2015-04-10
[86] 2013-10-14 (PCT/IB2013/059344)
[87] (WO2014/060932)
[30] IT (MI2012A001745) 2012-10-16

[11] **2,888,470**
[13] C

[51] **Int.Cl. C03C 3/085 (2006.01) C03C
3/087 (2006.01) C03C 3/091 (2006.01)
C03C 13/06 (2006.01)**

[25] EN
[54] **GLASS COMPOSITION FOR THE
MANUFACTURE OF FIBERS AND
PROCESS**

[54] **COMPOSITION DE VERRE POUR
LA FABRICATION DE FIBRES ET
PROCEDE**

[72] MCGINNIS, PETER B., US
[72] HOFMANN, DOUGLAS ALAN, US
[72] KORWIN-EDSON, MICHELLE
LYNN, US
[73] OWENS CORNING INTELLECTUAL
CAPITAL, LLC, US
[85] 2015-04-15
[86] 2013-10-18 (PCT/US2013/065554)
[87] (WO2014/062987)
[30] US (61/715,494) 2012-10-18

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[11] **2,888,663**
[13] C

[51] **Int.Cl. A61M 1/16 (2006.01) A61L 2/04 (2006.01) C02F 1/02 (2006.01)**

[25] EN

[54] **SYSTEMS, APPARATUS, EQUIPMENT WITH THERMAL DISINFECTION AND THERMAL DISINFECTION METHODS**

[54] **SYSTEMES, APPAREIL, EQUIPEMENT DE DESINFECTION THERMIQUE ET PROCEDES DE DESINFECTION THERMIQUE**

[72] FELDING, ANDERS, SE
[72] JONASSON, TOR-BJORN, SE
[72] JONSSON, DAN, SE
[72] NYSTRAND, ROLF, SE
[73] GAMBRO LUNDIA AB, SE
[85] 2015-04-17
[86] 2013-11-13 (PCT/EP2013/073705)
[87] (WO2014/082855)
[30] SE (1251349-5) 2012-11-28
[30] US (61/730,579) 2012-11-28

[11] **2,889,018**
[13] C

[51] **Int.Cl. A23K 40/20 (2016.01) A23K 10/00 (2016.01) A23K 40/25 (2016.01) A23K 50/00 (2016.01)**

[25] EN

[54] **AERATED INJECTION MOLDED PET CHEW**

[54] **PRODUIT A MACHER POUR ANIMAUX DE COMPAGNIE, AERE ET MOULE PAR INJECTION**

[72] REISER, RALF BELA, US
[72] CEPEDA, CHAD A., US
[72] ELLIOTT, MATTHEW, US
[73] MARS, INCORPORATED, US
[85] 2015-04-21
[86] 2013-10-22 (PCT/US2013/066255)
[87] (WO2014/066438)
[30] US (61/716,913) 2012-10-22

[11] **2,889,205**
[13] C

[51] **Int.Cl. A61B 90/00 (2016.01) A61B 5/055 (2006.01) A61B 6/03 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR MEASURING 3D GEOMETRIC DISTORTION IN MRI AND CT IMAGES**

[54] **METHODE ET APPAREIL DE MESURE DE LA DISTORSION GEOMETRIQUE 3D DANS LES IMAGES PAR IRM ET TOMODENSITOMETRIE**

[72] HOLDSWORTH, DAVID W., CA
[72] TEETER, MATTHEW G., CA
[72] MILNER, JACQUES S., CA
[72] POLLMANN, STEVEN I., CA
[72] DRANGOVA, MARIA, CA
[73] HOLDSWORTH, DAVID W., CA
[86] (2889205)
[87] (2889205)
[22] 2015-04-23

[11] **2,889,918**
[13] C

[51] **Int.Cl. A61B 17/04 (2006.01)**

[25] EN

[54] **FIXATION DEVICE FOR SECURING A LINEAR ELEMENT TO A WORKPIECE**

[54] **DISPOSITIF DE FIXATION POUR FIXER UN ELEMENT LINEAIRE A UNE PIECE A USINER**

[72] EAVES, FELMONT F., III, US
[73] EMERGE, LLC, US
[85] 2015-04-29
[86] 2013-11-11 (PCT/US2013/069467)
[87] (WO2014/078237)
[30] US (61/727,373) 2012-11-16
[30] US (61/787,062) 2013-03-15

[11] **2,891,150**
[13] C

[51] **Int.Cl. G06F 3/02 (2006.01) F24F 11/50 (2018.01)**

[25] EN

[54] **HVAC CONTROLLER HAVING KEYPAD INPUT AND METHOD OF OPERATION THEREOF**

[54] **CONTROLEUR CVCA COMPORTANT UN CLAVIER DE SAISIE ET METHODE DE FONCTIONNEMENT ASSOCIEE**

[72] HADZIDEDIC, DARKO, US
[72] MURUGESAN, SAKTHI NARAYAN KUMAR, US
[73] LENNOX INDUSTRIES INC., US
[86] (2891150)
[87] (2891150)
[22] 2015-05-13
[30] US (62/000,353) 2014-05-19
[30] US (14/692,335) 2015-04-21

[11] **2,892,681**
[13] C

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

[25] EN

[54] **FLUORESCENT MONOMERS AND TAGGED TREATMENT POLYMERS CONTAINING SAME FOR USE IN INDUSTRIAL WATER SYSTEMS**

[54] **MONOMERES FLUORESCENTS ET POLYMERES DE TRAITEMENT MARQUES CONTENANT CES MONOMERES DESTINES A UNE UTILISATION DANS DES SYSTEMES D'EAUX INDUSTRIELLES**

[72] ATKINS, JEFFERY M., US
[72] MORIARTY, BARBARA E., US
[72] ZINN, PAUL J., US
[73] ECOLAB USA INC., US
[85] 2015-05-26
[86] 2013-12-16 (PCT/US2013/075456)
[87] (WO2014/105493)
[30] US (13/730,087) 2012-12-28

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[11] **2,893,110**
[13] C

[51] **Int.Cl. A61B 17/32 (2006.01)**
[25] EN
[54] **ULTRASONIC SURGICAL BLADE**
[54] **LAME CHIRURGICALE**
ULTRASONORE
[72] DIETZ, TIMOTHY G., US
[72] BALEK, STEPHEN J., US
[72] BOYD, BENJAMIN M., US
[72] DANNAHER, WILLIAM D., US
[72] GROENE, DAVID C., US
[72] HORTON, III, WILLIAM C., US
[72] WITT, DAVID A., US
[72] VINS, BENJAMIN V., US
[73] ETHICON ENDO-SURGERY, INC.,
US
[85] 2015-05-28
[86] 2013-11-27 (PCT/US2013/072139)
[87] (WO2014/088899)
[30] US (61/734,636) 2012-12-07
[30] US (14/090,269) 2013-11-26

[11] **2,893,178**
[13] C

[51] **Int.Cl. G01N 33/48 (2006.01) G01N**
33/497 (2006.01)
[25] EN
[54] **METHOD AND APPARATUS FOR**
NON-INVASIVE DETECTION OF
CONDITIONS SUCH AS LUNG
CANCER
[54] **METHODE ET APPAREIL DE**
DETECTION NON EFFRACTIVE
DE MALADIES COMME LE
CANCER DU POUMON
[72] CORMIER, JOHN, CA
[73] PICOMOLE INC., CA
[86] (2893178)
[87] (2893178)
[22] 2015-05-22
[30] US (62/002,157) 2014-05-22

[11] **2,894,281**
[13] C

[51] **Int.Cl. C07D 249/12 (2006.01) A61K**
31/4196 (2006.01) A61P 31/12
(2006.01) A61P 35/00 (2006.01) C07D
401/06 (2006.01)
[25] EN
[54] **TRIAZOLONE COMPOUNDS AND**
USES THEREOF
[54] **COMPOSES DE TRIAZOLONE ET**
LEURS UTILISATIONS
[72] STOCK, NICHOLAS SIMON, US
[72] CHEN, AUSTIN CHIH-YU, US
[72] BRAVO, YALDA MOSTOFI, US
[72] JACINTHO, JASON DUARTE, US
[72] BACCEI, JILL MELISSA, US
[72] STEARNS, BRIAN ANDREW, US
[72] CLARK, RYAN CHRISTOPHER, US
[73] TEMPEST THERAPEUTICS, INC., US
[85] 2015-06-05
[86] 2013-12-10 (PCT/US2013/074197)
[87] (WO2014/099503)
[30] US (61/739,906) 2012-12-20

[11] **2,894,567**
[13] C

[51] **Int.Cl. G06F 13/42 (2006.01) H04L**
12/12 (2006.01) H04L 12/24 (2006.01)
[25] EN
[54] **SYSTEMS AND METHODS FOR**
EXCHANGING USB
INFORMATION WITH SELECTED
REMOTE DEVICES
[54] **SYSTEMES ET PROCEDES**
PERMETTANT D'ECHANGER DES
INFORMATIONS USB AVEC DES
DISPOSITIFS DISTANTS
SELECTIONNES
[72] HUNDAL, SUKHDEEP SINGH, CA
[72] FREY, DAVID PATRICK, CA
[72] MEGGY, DAVID ROBERT, CA
[73] ICRON TECHNOLOGIES
CORPORATION, CA
[85] 2015-06-10
[86] 2013-12-19 (PCT/CA2013/001060)
[87] (WO2014/094129)
[30] US (61/740,378) 2012-12-20
[30] US (13/791,579) 2013-03-08

[11] **2,894,759**
[13] C

[51] **Int.Cl. G01R 27/02 (2006.01) G01N**
27/60 (2006.01)
[25] EN
[54] **METHODS AND CIRCUITS FOR**
MEASURING A HIGH
IMPEDANCE ELEMENT BASED
ON TIME CONSTANT
MEASUREMENTS
[54] **PROCEDES ET CIRCUITS DE**
MESURE D'UN ELEMENT A
HAUTE IMPEDANCE SUR LA
BASE DE MESURES A
CONSTANTES DE TEMPS
[72] FRANTZ, FREDERICK E., US
[73] DUST COMPANY, INC., US
[85] 2015-06-10
[86] 2013-12-11 (PCT/US2013/074266)
[87] (WO2014/093426)
[30] US (13/710,896) 2012-12-11

[11] **2,895,267**
[13] C

[51] **Int.Cl. F16K 37/00 (2006.01)**
[25] EN
[54] **ACOUSTIC FLUID VALVE**
CALIBRATION
[54] **ETALONNAGE DE SOUPAPE A**
FLUIDE ACOUSTIQUE
[72] ANDERSON, SHAWN W., US
[73] FISHER CONTROLS
INTERNATIONAL LLC, US
[85] 2015-06-15
[86] 2014-01-02 (PCT/US2014/010044)
[87] (WO2014/107495)
[30] US (13/734,480) 2013-01-04

[11] **2,896,241**
[13] C

[51] **Int.Cl. G02B 7/00 (2021.01) G02B**
7/182 (2021.01)
[25] EN
[54] **LOW WAVEFRONT DISTORTION**
OPTICAL MOUNT
[54] **MONTURE OPTIQUE A FAIBLE**
DISTORSION SUR LE FRONT DE
L'ONDE
[72] D'ALESSIO, BRETT, US
[72] CABLE, ALEX EZRA, US
[73] THORLABS, INC., US
[85] 2015-06-22
[86] 2013-12-26 (PCT/US2013/077848)
[87] (WO2014/105975)
[30] US (61/745,932) 2012-12-26

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[11] **2,896,455**
[13] C

[51] **Int.Cl. C07H 19/10 (2006.01) A61K 31/7072 (2006.01) A61K 31/7105 (2006.01) A61P 11/00 (2006.01) A61P 11/10 (2006.01) C07B 61/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING P1,P4-DI(URIDINE 5'-)TETRAPHOSPHATE**

[54] **PROCEDE DE PRODUCTION DE P1,P4-DI(URIDINE-5'-)TETRAPHOSPHATE**

[72] YAMADA, KOHEI, JP

[73] YAMASA CORPORATION, JP

[85] 2015-06-25

[86] 2013-12-10 (PCT/JP2013/083100)

[87] (WO2014/103704)

[30] JP (2012-287578) 2012-12-28

[11] **2,896,864**
[13] C

[51] **Int.Cl. A61K 9/28 (2006.01) A61K 31/155 (2006.01)**

[25] EN

[54] **DELAYED-RELEASE COMPOSITION COMPRISING BIGUANIDE**

[54] **COMPOSITIONS ET METHODES PERMETTANT DE TRAITER DES AFFECTIONS METABOLIQUES**

[72] BARON, ALAIN D., US

[72] FINEMAN, MARK S., US

[72] KIM, TERRI, US

[72] DORDUNOO, STEPHEN KWAKU, US

[73] ANJI PHARMA (US) LLC, US

[85] 2015-06-29

[86] 2014-01-03 (PCT/US2014/010240)

[87] (WO2014/107617)

[30] US (61/749,307) 2013-01-05

[11] **2,897,055**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/496 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **SUBSTITUTED 2-(TRIFLUOROMETHYLSULFONYL)PHENYLAMINO COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF AS BCL-2/BCL-XL INHIBITORS AND THERAPEUTIC METHODS USING THE SAME**

[54] **COMPOSES DE PHENYLAMINO 2-(TRIFLUOROMETHYLSULFONYL) SUBSTITUES ET COMPOSITIONS PHARMACEUTIQUES DE CEUX-CI EN TANT QU'INHIBITEURS DE BCL-2/BCL-XL ET PROCEDES THERAPEUTIQUES ASSOCIES**

[72] WANG, SHAOMENG, US

[72] CHEN, JIANFANG, US

[72] MCEACHERN, DONNA, US

[72] BAI, LONGCHUAN, US

[72] LIU, LIU, US

[72] SUN, DUXIN, US

[72] LI, XIAOQIN, US

[72] AGUILAR, ANGELO, US

[73] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US

[85] 2015-07-02

[86] 2014-01-15 (PCT/US2014/011571)

[87] (WO2014/113413)

[30] US (61/753,066) 2013-01-16

[11] **2,897,156**
[13] C

[51] **Int.Cl. B32B 37/14 (2006.01) B05D 3/02 (2006.01) B32B 21/06 (2006.01) B44C 5/04 (2006.01) E04F 15/02 (2006.01)**

[25] EN

[54] **A METHOD OF PRODUCING A BUILDING PANEL**

[54] **PROCEDE DE PRODUCTION D'UN PANNEAU DE CONSTRUCTION**

[72] PERVAN, DARKO, SE

[72] HAKANSSON, NICLAS, SE

[72] PERSSON, HANS, SE

[72] BERGELIN, MARCUS, SE

[73] VALINGE INNOVATION AB, SE

[85] 2015-07-03

[86] 2014-01-10 (PCT/SE2014/050015)

[87] (WO2014/109697)

[30] US (61/751,393) 2013-01-11

[30] SE (1350032-7) 2013-01-11

[30] SE (1350034-3) 2013-01-11

[30] SE (1350031-9) 2013-01-11

[11] **2,898,083**
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01) G06Q 50/28 (2012.01) B60P 3/00 (2006.01) B65G 1/137 (2006.01) G07F 9/10 (2006.01) G07F 11/54 (2006.01) G07F 17/00 (2006.01) G07F 17/12 (2006.01)**

[25] FR

[54] **ELECTRONIC COMMERCE PLATFORM**

[54] **PLATEFORME DE COMMERCE ELECTRONIQUE**

[72] CREBIER, GERARD, FR

[73] GLOBE INTERFIN S.A., LU

[85] 2015-07-13

[86] 2014-01-16 (PCT/EP2014/050831)

[87] (WO2014/111483)

[30] FR (1350356) 2013-01-16

[30] FR (1358079) 2013-08-20

[11] **2,898,423**
[13] C

[51] **Int.Cl. A61F 2/54 (2006.01)**

[25] EN

[54] **PROSTHETIC HAND SYSTEM**

[54] **SYSTEME DE PROTHESE DE MAIN**

[72] DONATI, GABRIELE, IT

[72] BACCHERETI, MICHELE, IT

[72] FERRETTI, LUCA, IT

[72] PELLICCI, GIAMPAOLO, IT

[72] VITETTA, NADIA, IT

[72] CARBONARO, NICOLA, IT

[72] TOGNETTI, ALESSANDRO, IT

[73] FABRICA MACHINALE S.R.L., IT

[85] 2015-07-16

[86] 2014-01-13 (PCT/IB2014/058239)

[87] (WO2014/111843)

[30] IT (PI2013A000004) 2013-01-16

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[11] **2,898,540**
[13] C

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 48/12 (2009.01)**
[25] EN
[54] **MOBILE COMMUNICATION DEVICE AND METHOD FOR ALLOCATING SYSTEM INFORMATION AMONG VIRTUAL CARRIERS FOR MACHINE-TYPE COMMUNICATIONS**
[54] **DISPOSITIF DE COMMUNICATION MOBILE ET PROCEDE POUR ATTRIBUER DES INFORMATIONS SYSTEME PARMY DES PORTEUSES VIRTUELLES POUR DES COMMUNICATIONS DE TYPE MACHINE**
[72] WEBB, MATTHEW, GB
[72] KOULAKIOTIS, DIMITRIS, CY
[72] WAKABAYASHI, HIDEJI, GB
[72] MORIOKA, YUICHI, GB
[72] TRUELOVE, STEPHEN, GB
[73] SONY CORPORATION, JP
[85] 2015-07-17
[86] 2014-01-17 (PCT/GB2014/050138)
[87] (WO2014/114918)
[30] GB (1301295.0) 2013-01-24

[11] **2,898,896**
[13] C

[51] **Int.Cl. H04W 4/02 (2018.01) H04W 4/80 (2018.01) H04W 76/14 (2018.01)**
[25] EN
[54] **PROXIMITY AND INTEREST DETERMINATION BY A WIRELESS DEVICE**
[54] **DETERMINATION DE PROXIMITE ET D'INTERET PAR UN DISPOSITIF SANS FIL**
[72] GAGE, WILLIAM ANTHONY, CA
[72] MUKHERJEE, BISWAROOP, CA
[72] NOVAK, ROBERT, CA
[73] BLACKBERRY LIMITED, CA
[85] 2015-07-22
[86] 2014-01-24 (PCT/CA2014/050048)
[87] (WO2014/113890)
[30] US (13/750,331) 2013-01-25

[11] **2,899,208**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61B 90/00 (2016.01)**
[25] EN
[54] **FLUID WASTE COLLECTION AND DISPOSAL SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE COLLECTE ET D'ELIMINATION DE DECHETS FLUIDES**
[72] SCHMIDT, RODNEY, US
[72] JOHNSON, DAVID, US
[72] DAUWALTER, DAVID, US
[73] SKYLINE MEDICAL INC., US
[85] 2015-07-23
[86] 2014-01-25 (PCT/US2014/013081)
[87] (WO2014/117043)
[30] US (61/756,763) 2013-01-25

[11] **2,899,488**
[13] C

[51] **Int.Cl. A61B 17/072 (2006.01)**
[25] EN
[54] **END EFFECTOR COMPRISING A DISTAL TISSUE ABUTMENT MEMBER**
[54] **EFFECTEUR TERMINAL COMPRENANT UN ELEMENT DE BUTEE DE TISSU DISTAL**
[72] SCHMID, KATHERINE J., US
[72] SMITH, BRET W., US
[72] SHELTON, FREDERICK E., IV, US
[73] ETHICON ENDO-SURGERY, INC., US
[85] 2015-07-27
[86] 2014-02-07 (PCT/US2014/015307)
[87] (WO2014/124263)
[30] US (13/763,106) 2013-02-08

[11] **2,899,720**
[13] C

[51] **Int.Cl. A61B 5/0215 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **MONITORING OF CARDIAC ARREST IN A PATIENT CONNECTED TO AN EXTRACORPOREAL BLOOD PROCESSING APPARATUS**
[54] **SURVEILLANCE D'UN ARRET CARDIAQUE CHEZ UN PATIENT RACCORDE A UN APPAREIL DE TRAITEMENT SANGUIN EXTRACORPOREL**
[72] HANSSON, PER, SE
[72] OLDE, BO, SE
[72] SOLEM, KRISTIAN, SE
[72] STERNBY, JAN, SE
[73] GAMBRO LUNDIA AB, SE
[85] 2015-07-29
[86] 2014-03-17 (PCT/EP2014/055309)
[87] (WO2014/147028)
[30] SE (1350344-6) 2013-03-20

[11] **2,899,848**
[13] C

[51] **Int.Cl. A63B 69/20 (2006.01)**
[25] FR
[54] **REACTIVE-MOBILITY TRAINING APPLIANCE COMPRISING A PUNCHING BAG**
[54] **APPAREIL D'ENTRAINEMENT A MOBILITE REACTIVE COMPRENANT UN SAC DE FRAPPE**
[72] ALMERAS, LILIAN, FR
[73] BELLANDO DE CASTRO, ANTOINE, MC
[85] 2015-07-30
[86] 2014-01-31 (PCT/FR2014/050172)
[87] (WO2014/118471)
[30] FR (1350818) 2013-01-31
[30] FR (1363191) 2013-12-20

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[11] **2,900,375**
[13] C

[51] **Int.Cl. B66F 3/44 (2006.01) B60S 9/04 (2006.01) B60S 9/14 (2006.01) B66F 1/06 (2006.01) B66F 3/10 (2006.01) B66F 3/20 (2006.01) F16M 11/26 (2006.01) F16M 11/28 (2006.01)**

[25] EN

[54] **TELESCOPIC JOCKEY WHEEL ASSEMBLY**

[54] **DISPOSITIF TELESCOPIQUE DE ROUE JOCKEY**

[72] VAN DEN BOS, JURGEN, AU

[73] BOS FABRICATION ENGINEERING SERVICES PTY LTD, AU

[85] 2015-08-06

[86] 2014-02-19 (PCT/AU2014/000143)

[87] (WO2014/127411)

[30] AU (2013200923) 2013-02-19

[11] **2,900,891**
[13] C

[51] **Int.Cl. C09D 167/00 (2006.01)**

[25] EN

[54] **OXIDATIVELY CURABLE COATING COMPOSITION**

[54] **COMPOSITION DE REVETEMENT DURCISSABLE PAR OXYDATION**

[72] DE BOER, JOHANNES WIETSE, NL

[72] HAGE, RONALD, NL

[72] MAAIJEN, KARIN, NL

[73] CHEMSENTI LIMITED, GB

[85] 2015-08-11

[86] 2014-01-31 (PCT/GB2014/050270)

[87] (WO2014/122432)

[30] EP (13154852.1) 2013-02-11

[11] **2,901,324**
[13] C

[51] **Int.Cl. B29D 11/02 (2006.01) A61F 2/14 (2006.01)**

[25] EN

[54] **PROCESS FOR MANUFACTURING AN INTRAOCULAR LENS WITH AN EMBEDDED MASK**

[54] **PROCEDE POUR LA FABRICATION D'UNE LENTILLE INTRAOCULAIRE AVEC UN MASQUE INTEGRE**

[72] REBOUL, ADAM C., US

[72] BENZ, PATRICK H., US

[72] WEBB, R. KYLE, US

[73] ACUFOCUS, INC., US

[85] 2015-08-13

[86] 2014-02-27 (PCT/US2014/019118)

[87] (WO2014/158653)

[30] US (13/830,889) 2013-03-14

[11] **2,902,453**
[13] C

[51] **Int.Cl. G01N 21/79 (2006.01) G01N 31/16 (2006.01)**

[25] EN

[54] **AUTOMATIC TITRATOR**

[54] **TITRIMETRE AUTOMATIQUE**

[72] BOLDUC, JOHN WILHELM, US

[72] OTTING, BLAKE ROBERTS, US

[72] KRAUS, PAUL R., US

[72] RYTHER, ROBERT, US

[73] ECOLAB USA INC., US

[85] 2015-08-25

[86] 2014-03-03 (PCT/US2014/019982)

[87] (WO2014/149630)

[30] US (13/838,409) 2013-03-15

[11] **2,902,749**
[13] C

[51] **Int.Cl. C10L 1/10 (2006.01) C10L 1/18 (2006.01) C10L 1/23 (2006.01)**

[25] EN

[54] **METHOD FOR INCREASING THE HIGH LOAD (KNOCK) LIMIT OF AN INTERNAL COMBUSTION ENGINE OPERATED IN A LOW TEMPERATURE COMBUSTION MODE**

[54] **PROCEDE POUR AUGMENTER LA LIMITE DE CHARGE ELEVEE (DETONATION) D'UN MOTEUR A COMBUSTION INTERNE QUE L'ON FAIT FONCTIONNER DANS UN MODE DE COMBUSTION A BASSE TEMPERATURE**

[72] CANNELLA, WILLIAM JAMES, US

[72] MARIA, AMIR GAMAL, US

[72] DEC, JOHN E., US

[72] JI, CHUNSHENG, US

[73] CHEVRON U.S.A. INC., US

[85] 2015-08-26

[86] 2014-04-22 (PCT/US2014/034895)

[87] (WO2014/182431)

[30] US (13/891,696) 2013-05-10

[11] **2,902,874**
[13] C

[51] **Int.Cl. C07D 401/04 (2006.01) A61K 31/4155 (2006.01) A61K 31/4439 (2006.01) C07D 403/04 (2006.01)**

[25] EN

[54] **SUBSTITUTED PYRIDINYL-6-METHOXY-BENZALDEHYDE DERIVATIVES AND PHARMACEUTICAL COMPOSITIONS THEREOF USEFUL FOR THE MODULATION OF HEMOGLOBIN**

[54] **DERIVES DE PYRIDINYL-6-METHOXYBENZALDEHYDE SUBSTITUES ET COMPOSITIONS PHARMACEUTIQUES DE CEUX-CI POUR UTILISATION DANS LA MODULATION DE L'HEMOGLOBINE**

[72] HARRIS, JASON R., US

[72] METCALF, BRIAN W., US

[72] LI, ZHE, US

[72] GWALTNEY, STEPHEN L., II, US

[73] GLOBAL BLOOD THERAPEUTICS, INC., US

[85] 2015-08-27

[86] 2014-03-10 (PCT/US2014/022742)

[87] (WO2014/150261)

[30] US (13/815,810) 2013-03-15

[30] US (14/010,455) 2013-08-26

[11] **2,902,899**
[13] C

[51] **Int.Cl. A61B 17/068 (2006.01) A61B 90/98 (2016.01) A61B 17/00 (2006.01) A61B 17/072 (2006.01)**

[25] EN

[54] **CONTROL METHODS FOR SURGICAL INSTRUMENTS WITH REMOVABLE IMPLEMENT PORTIONS**

[54] **PROCEDES DE COMMANDE POUR INSTRUMENTS CHIRURGICAUX DOTES DE PARTIES D'OUTIL AMOVIBLE**

[72] HALL, STEVEN G., US

[72] BABER, DANIEL L., US

[73] ETHICON ENDO-SURGERY, INC., US

[85] 2015-08-26

[86] 2014-02-25 (PCT/US2014/018282)

[87] (WO2014/134027)

[30] US (13/782,518) 2013-03-01

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[11] **2,903,202**
[13] C

[51] **Int.Cl. A61B 17/072 (2006.01) A61B 17/068 (2006.01) A61B 17/29 (2006.01)**

[25] EN

[54] **ARTICULATABLE SURGICAL INSTRUMENTS WITH CONDUCTIVE PATHWAYS FOR SIGNAL COMMUNICATION**

[54] **INSTRUMENTS CHIRURGICAUX ARTICULABLES AVEC VOIES CONDUCTRICES POUR COMMUNICATION DE SIGNAL**

[72] JAWOREK, GARY S., US

[72] KOCH, ROBERT L., JR., US

[72] AULD, MICHAEL D., US

[73] ETHICON ENDO-SURGERY, INC., US

[85] 2015-08-31

[86] 2014-02-25 (PCT/US2014/018224)

[87] (WO2014/134007)

[30] US (13/782,295) 2013-03-01

[11] **2,903,415**
[13] C

[51] **Int.Cl. A61K 31/661 (2006.01) A61K 31/4025 (2006.01) A61K 31/4164 (2006.01) A61K 31/4178 (2006.01) A61K 31/4188 (2006.01) A61K 31/422 (2006.01) A61K 31/4439 (2006.01) A61K 45/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION INCLUDING MIGRATORY FACTOR FOR GUIDING PLURIPOTENT STEM CELLS TO INJURY**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN FACTEUR MIGRATOIRE DESTINE A GUIDER DES CELLULES SOUCHES PLURIPOTENTES JUSQU'A UNE BLESSURE**

[72] DEZAWA, MARI, JP

[72] FUJIYOSHI, YOSHINORI, JP

[72] YOSHIDA, MASANORI, JP

[73] CLIO, INC., JP

[73] TOHOKU UNIVERSITY, JP

[73] NATIONAL UNIVERSITY CORPORATION NAGOYA UNIVERSITY, JP

[85] 2015-09-01

[86] 2014-02-28 (PCT/JP2014/055181)

[87] (WO2014/133170)

[30] JP (2013-041161) 2013-03-01

[11] **2,903,474**
[13] C

[51] **Int.Cl. A23G 3/34 (2006.01) A23G 3/54 (2006.01)**

[25] EN

[54] **STABILIZATION OF NATURAL BLUE ANTHOCYANIN-CONTAINING COLORANTS AND PRODUCTS MADE**

[54] **STABILISATION DE COLORANTS CONTENANT DE L'ANTHOCYANINE BLEUS NATURELS ET PRODUITS FABRIQUES**

[72] ROBBINS, REBECCA J., US

[73] MARS, INCORPORATED, US

[85] 2015-09-01

[86] 2014-03-10 (PCT/US2014/022649)

[87] (WO2014/150230)

[30] US (61/792,810) 2013-03-15

[11] **2,903,591**
[13] C

[51] **Int.Cl. A41D 19/015 (2006.01) A41D 13/04 (2006.01) A41D 19/04 (2006.01) A62B 17/00 (2006.01)**

[25] EN

[54] **PERSONAL PROTECTIVE EQUIPMENT FOR CBRN OR OTHER PROTECTION**

[54] **EQUIPEMENT DE PROTECTION INDIVIDUELLE POUR CBRN OU AUTRE PROTECTION**

[72] VANDENBOSCH, JILL, CA

[72] MORISSETTE, JEAN-FRANCOIS, CA

[72] LEMYRE, JEAN-LUC, CA

[72] DIONNE, LUC, CA

[72] MEUNIER, ALEXANDRE, CA

[73] AIRBOSS ENGINEERED PRODUCTS INC., CA

[85] 2015-09-02

[86] 2014-03-07 (PCT/CA2014/000198)

[87] (WO2014/134715)

[30] CA (2,808,848) 2013-03-07

[11] **2,903,623**
[13] C

[51] **Int.Cl. H01J 49/04 (2006.01) G01N 27/623 (2021.01) G01N 27/624 (2021.01) H01J 49/42 (2006.01)**

[25] EN

[54] **OPTIMISED ION MOBILITY SEPARATION TIMESCALES FOR TARGETED IONS**

[54] **ECHELLES DE TEMPS DE SEPARATION DE MOBILITE IONIQUE OPTIMISEES POUR IONS CIBLES**

[72] GILES, KEVIN, GB

[72] PRINGLE, STEVEN DEREK, GB

[72] WILDGOOSE, JASON LEE, GB

[73] MICROMASS UK LIMITED, GB

[85] 2015-09-02

[86] 2014-03-05 (PCT/GB2014/050648)

[87] (WO2014/135870)

[30] GB (1304037.3) 2013-03-06

[30] EP (13158047.4) 2013-03-06

[11] **2,903,707**
[13] C

[51] **Int.Cl. A63B 21/04 (2006.01) A63B 21/00 (2006.01) A63B 21/055 (2006.01)**

[25] EN

[54] **WEARABLE DEVICE FOR GUIDING A LINE OF A FITNESS APPARATUS**

[54] **DISPOSITIF POUVANT ETRE PORTE POUR GUIDER UNE LIGNE D'UN APPAREIL D'ENTRAINEMENT**

[72] BOEKEMA, ROBBERT JACOBUS JOHANNES, NL

[73] QSID B.V., NL

[85] 2015-09-02

[86] 2014-03-04 (PCT/NL2014/050130)

[87] (WO2014/137210)

[30] NL (2010395) 2013-03-05

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[11] **2,903,820**
[13] C

[51] **Int.Cl. A23P 30/20 (2016.01) A23K 10/00 (2016.01) A23K 40/25 (2016.01) B29C 48/30 (2019.01) A21C 11/16 (2006.01) A23N 17/00 (2006.01)**

[25] EN

[54] **EXTRUDER SYSTEM AND METHOD**

[54] **SYSTEME D'EXTRUDEUSE ET PROCEDE**

[72] WILLCOCKS, NEIL, US
[72] KEEN, BRUCE, US
[72] CHISHOLM, KEITH, US
[72] SUTTLE, JAMES, US
[73] MARS, INCORPORATED, US
[85] 2015-09-02
[86] 2014-03-13 (PCT/US2014/025138)
[87] (WO2014/151161)
[30] US (61/789,760) 2013-03-15

[11] **2,904,043**
[13] C

[51] **Int.Cl. B64C 1/18 (2006.01) B64D 45/02 (2006.01) H02G 3/04 (2006.01)**

[25] EN

[54] **AIRCRAFT FLOOR INCORPORATING A GROUND PLANE**

[54] **PLANCHER D'AERONEF INCORPORANT UN PLAN DE MASSE**

[72] ROBOREL DE CLIMENS, LODY, CA
[72] DESY, PHILIPPE, CA
[72] GAUDREAU, JEAN-GUY, CA
[73] AIRBUS CANADA LIMITED PARTNERSHIP, CA
[85] 2015-09-03
[86] 2014-02-26 (PCT/IB2014/000209)
[87] (WO2014/135943)
[30] US (61/773,441) 2013-03-06

[11] **2,904,426**
[13] C

[51] **Int.Cl. B23D 59/00 (2006.01) B28D 7/02 (2006.01)**

[25] EN

[54] **A CUTTING APPARATUS**

[54] **APPAREIL DE COUPE**

[72] BATRES, BENJAMIN, US
[72] LABANCO, SAM KENNETH, US
[72] NAJI, BASIL, US
[72] PROKOP, GARY FRANK, US
[72] VENTH, WILLIAM EDWIN, US
[72] SPENCER, MATTHEW, US
[73] JAMES HARDIE TECHNOLOGY LIMITED, IE
[85] 2015-09-08
[86] 2014-03-11 (PCT/EP2014/054756)
[87] (WO2014/140052)
[30] US (61/776,338) 2013-03-11

[11] **2,903,825**
[13] C

[51] **Int.Cl. C13K 11/00 (2006.01) C13B 20/18 (2011.01) A23L 5/20 (2016.01) A23L 27/00 (2016.01) A23L 29/30 (2016.01) C13K 1/00 (2006.01)**

[25] EN

[54] **SYRUP PURIFICATION BY CAPACITIVE DEIONIZATION**

[54] **PURIFICATION DE SIROP PAR DEIONISATION CAPACITIVE**

[72] KETSMAN, JOOST, BE
[72] VERCAUTEREN, RONNY LEONTINA MARCEL, BE
[72] NATALONI, LUIGI, IT
[73] CARGILL INCORPORATED, US
[85] 2015-09-02
[86] 2014-03-05 (PCT/US2014/020564)
[87] (WO2014/138171)
[30] EP (13001116.6) 2013-03-06

[11] **2,904,171**
[13] C

[51] **Int.Cl. B67D 7/00 (2010.01)**

[25] EN

[54] **POURING SPOUT FOR DISPENSING A LIQUID PRESENT IN A LIQUID CONTAINER**

[54] **BEC VERSEUR POUR DISTRIBUER UN LIQUIDE PRESENT DANS UN RECIPIENT DE LIQUIDE**

[72] VAN GELDER, PETER HEINZ MARIA, NL
[72] VAN GELDER, ERNST BARTHOLOMEUS MARIA, NL
[73] GVG OLIEHANDEL B.V., NL
[85] 2015-09-04
[86] 2014-03-07 (PCT/NL2014/050137)
[87] (WO2014/137216)
[30] NL (2010407) 2013-03-07

[11] **2,904,534**
[13] C

[51] **Int.Cl. A63G 21/00 (2006.01) A63G 31/00 (2006.01)**

[25] EN

[54] **TRACKLESS VEHICLE AND SYSTEM FOR SYNCHRONOUS CONTROL OF TRACKLESS VEHICLE**

[54] **VEHICULE SUR PISTE ET SYSTEME DE COMMANDE SYNCHRONE DUDIT VEHICULE SUR PISTE**

[72] GRANT, ANDREW SCOTT, US
[72] BOSHEARS, MICHAEL WAYNE, US
[73] OCEANEERING INTERNATIONAL, INC., US
[85] 2015-09-04
[86] 2014-03-14 (PCT/US2014/029727)
[87] (WO2014/145071)
[30] US (61/800,257) 2013-03-15

[11] **2,904,419**
[13] C

[51] **Int.Cl. F03D 7/04 (2006.01)**

[25] EN

[54] **A WIND TURBINE HUB AND BLADE CONTROL SYSTEM**

[54] **MOYEU DE TURBINE D'EOLIENNE ET DISPOSITIF DE COMMANDE DE PALE**

[72] ILLING, WES, US
[73] ILLING ENGINEERING SERVICES, US
[85] 2015-09-04
[86] 2014-03-11 (PCT/US2014/023713)
[87] (WO2014/164891)
[30] US (61/776,709) 2013-03-11

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[11] **2,904,699**
[13] C

[51] **Int.Cl. C10L 1/16 (2006.01) C10L 10/18 (2006.01)**
[25] EN
[54] **PENTAMETHYLHEPTANE AS A PRIMARY REFERENCE STANDARD FOR CETANE NUMBER**
[54] **PENTAMETHYLHEPTANE EN TANT QU'ETALON DE REFERENCE PRIMAIRE POUR L'INDICE DE CETANE**
[72] MATHUR, INDRESH, US
[73] MONUMENT CHEMICAL HOUSTON, LLC, US
[85] 2015-09-08
[86] 2014-03-07 (PCT/US2014/021726)
[87] (WO2014/164287)
[30] US (13/795,753) 2013-03-12

[11] **2,904,782**
[13] C

[51] **Int.Cl. E21B 44/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DAMPING VIBRATIONS IN A TOOL STRING SYSTEM**
[54] **PROCEDE ET SYSTEME POUR AMORTIR DES VIBRATIONS DANS UN SYSTEME DE TRAIN DE TIGES D'OUTIL**
[72] DWARS, SICCO, NL
[72] STULEMEIJER, IVO PETRUS JOZEF MARIA, NL
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2015-09-09
[86] 2014-03-19 (PCT/EP2014/055490)
[87] (WO2014/147116)
[30] EP (13160308.6) 2013-03-21
[30] EP (13179337.4) 2013-08-06

[11] **2,904,807**
[13] C

[51] **Int.Cl. B63G 8/00 (2006.01) B22D 31/00 (2006.01) B29C 44/34 (2006.01) B63B 3/13 (2006.01) B63B 27/16 (2006.01) B63B 27/36 (2006.01) B63G 8/39 (2006.01) F17C 1/00 (2006.01) G01C 21/00 (2006.01) G01C 21/16 (2006.01) G01S 7/52 (2006.01) G01S 15/02 (2006.01) G01S 15/10 (2006.01) G01S 15/60 (2006.01) G01S 15/89 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR NAVIGATING AUTONOMOUS UNDERWATER VEHICLES**
[54] **SYSTEMES ET PROCEDES POUR FAIRE NAVIGUER DES VEHICULES SOUS-MARINS AUTONOMES**
[72] RIKOSKI, RICHARD J., US
[73] HADAL, INC., US
[85] 2015-09-08
[86] 2014-03-14 (PCT/US2014/029653)
[87] (WO2014/145017)
[30] US (61/792,708) 2013-03-15

[11] **2,904,850**
[13] C

[51] **Int.Cl. G01N 21/25 (2006.01) G01N 21/39 (2006.01) G01N 21/59 (2006.01)**
[25] EN
[54] **ANALYTES MONITORING BY DIFFERENTIAL SWEPT WAVELENGTH ABSORPTION SPECTROSCOPY METHODS**
[54] **SURVEILLANCE D'ANALYTES AU MOYEN DE METHODES DE SPECTROSCOPIE PAR ABSORPTION DE LONGUEUR D'ONDE BALAYEE DIFFERENTIELLE**
[72] MIRON, NICOLAE, CA
[73] NGP INC., CA
[86] (2904850)
[87] (2904850)
[22] 2015-09-21
[30] US (62/071312) 2014-09-22

[11] **2,905,200**
[13] C

[51] **Int.Cl. C08L 1/02 (2006.01) C08J 3/20 (2006.01) C08J 5/18 (2006.01) C08K 5/42 (2006.01)**
[25] EN
[54] **FLEXIBLE NANOCRYSTALLINE CELLULOSE (NCC) FILMS WITH TUNABLE OPTICAL AND MECHANICAL PROPERTIES**
[54] **FILMS SOUPLES DE CELLULOSE NANOCRYSTALLINE (NCC) PRESENTANT DES PROPRIETES OPTIQUES ET MECANIQUES AJUSTABLES**
[72] HAMAD, WADOOD YASSER, CA
[72] ATIFI, SIHAM, CA
[72] BERRY, RICHARD MCKINNON, CA
[73] CELLUFORCE INC., CA
[85] 2015-09-10
[86] 2014-03-12 (PCT/CA2014/050219)
[87] (WO2014/138976)
[30] US (61/777,203) 2013-03-12

[11] **2,905,698**
[13] C

[51] **Int.Cl. A61B 17/072 (2006.01)**
[25] EN
[54] **CONTROL ARRANGEMENTS FOR A DRIVE MEMBER OF A SURGICAL INSTRUMENT**
[54] **AGENCEMENTS DE COMMANDE POUR UN COMPOSANT D'ENTRAINEMENT D'UN INSTRUMENT CHIRURGICAL**
[72] LEIMBACH, RICHARD L., US
[72] OVERMYER, MARK D., US
[72] ADAMS, SHANE R., US
[72] SWENSGARD, BRETT E., US
[73] ETHICON ENDO-SURGERY, INC., US
[85] 2015-09-11
[86] 2014-02-27 (PCT/US2014/018951)
[87] (WO2014/158636)
[30] US (13/803,193) 2013-03-14

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[11] **2,906,370**
[13] C

[51] **Int.Cl. C11B 3/00 (2006.01) C11B 3/04 (2006.01)**
[25] EN
[54] **METHOD OF REMOVING A CONTAMINANT FROM A CONTAMINANT-CONTAINING BIOLOGICAL COMPOSITION USEFUL AS A BIOFUEL FEEDSTOCK**
[54] **PROCEDE D'ELIMINATION D'UN CONTAMINANT D'UNE COMPOSITION BIOLOGIQUE CONTENANT UN CONTAMINANT UTILE COMME MATIERE PREMIERE DE BIOCARBURANT**
[72] GUAY, PETER, US
[72] GRAHAM, DALE, US
[72] ABHARI, RAMIN, US
[72] HAVLIK, PETER ZDENEK, US
[72] ROTH, EDWARD GARY, US
[72] TOMLINSON, H. LYNN, US
[73] REG SYNTHETIC FUELS, LLC, US
[85] 2015-09-14
[86] 2014-03-04 (PCT/US2014/020228)
[87] (WO2014/158799)
[30] US (61/785,061) 2013-03-14

[11] **2,906,543**
[13] C

[51] **Int.Cl. H01R 43/042 (2006.01) H02S 40/34 (2014.01) H01R 4/10 (2006.01) H01R 4/66 (2006.01)**
[25] EN
[54] **CRIMP DIE SET**
[54] **ENSEMBLE DE MATRICE DE SERTISSAGE**
[72] THERRIEN, PETER N., US
[73] HUBBELL INCORPORATED, US
[85] 2015-09-14
[86] 2014-03-13 (PCT/US2014/026598)
[87] (WO2014/151873)
[30] US (61/787,449) 2013-03-15
[30] US (14/209,311) 2014-03-13

[11] **2,906,560**
[13] C

[51] **Int.Cl. H05K 9/00 (2006.01)**
[25] EN
[54] **ELECTROMAGNETICALLY PROTECTED ELECTRONIC ENCLOSURE**
[54] **ENCEINTE ELECTRONIQUE PROTEGEE ELECTROMAGNETIQUEMENT**
[72] ANDERSON, GEORGE, US
[72] VOLNA, WILLIAM M., US
[72] FUCHS, GREG, US
[72] JACKSON, DAVID BLAKE, US
[72] JENSEN, WALLACE, US
[72] RUEHL, JAMES NICHOLAS, US
[72] NORDLING, GALE K., US
[72] FAXVOG, FREDERICK R., US
[73] EMPRIMUS, LLC, US
[85] 2015-09-14
[86] 2014-03-13 (PCT/US2014/026760)
[87] (WO2014/151978)
[30] US (61/784,891) 2013-03-14

[11] **2,906,562**
[13] C

[51] **Int.Cl. C09K 8/80 (2006.01) C09K 8/62 (2006.01) E21B 43/267 (2006.01)**
[25] EN
[54] **A PROPPANT FOR HYDRAULICALLY FRACTURING A SUBTERRANEAN FORMATION, AND A METHOD FOR PRODUCING THE PROPPANT**
[54] **AGENT DE SOUTENEMENT POUR LA FRACTURATION HYDRAULIQUE D'UNE FORMATION SOUTERRAINE ET PROCEDE DE PRODUCTION DE L'AGENT DE SOUTENEMENT**
[72] TANGUAY, CHRISTOPHER M., US
[72] ROH, YEONSUK, US
[72] KUMAR, RAJESH, US
[73] BASF SE, DE
[85] 2015-09-14
[86] 2014-03-13 (PCT/US2014/025390)
[87] (WO2014/151294)
[30] US (61/790,489) 2013-03-15

[11] **2,907,032**
[13] C

[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/422 (2006.01) A61K 31/4245 (2006.01) A61P 31/04 (2006.01) C07D 413/10 (2006.01)**
[25] EN
[54] **1, 2, 4-OXADIAZOL COMPOUNDS ACTIVE AGAINST GRAM-POSITIVE PATHOGENS**
[54] **COMPOSES 1,2,4-OXADIAZOLE ACTIFS CONTRE LES PATHOGENES A GRAM POSITIF**
[72] MUSUMECCI, ROSARIO, IT
[72] COCUZZA, CLEMENTINA ELVEZIA ANNA, IT
[72] FORTUNA, COSIMO GIANLUCA, IT
[72] PACE, ANDREA, IT
[72] PALUMBO PICCIONELLO, ANTONIO, IT
[73] I.E.ME.ST - ISTITUTO EURO MEDITERRANEO DI SCIENZA E TECNOLOGIA, IT
[73] UNIVERSITA DEGLI STUDI DI MILANO - BICOCCA, IT
[85] 2015-09-15
[86] 2014-03-17 (PCT/IB2014/059896)
[87] (WO2014/141218)
[30] US (13/839,485) 2013-03-15
[30] IT (RM2013A000155) 2013-03-15

[11] **2,907,046**
[13] C

[51] **Int.Cl. C12N 9/00 (2006.01) A61P 21/00 (2006.01) A61P 29/00 (2006.01) C12N 9/96 (2006.01)**
[25] EN
[54] **HISTIDYL-TRNA SYNTHETASE-FC CONJUGATES**
[54] **CONJUGUES HISTIDYL-ARNT SYNTHETASE-REGION FC**
[72] BUECHLER, YING, US
[72] CHIANG, KYLE, US
[72] DO, MINH-HA, US
[72] LEE, DARIN, US
[72] PIEHL, KRISTI, US
[72] THOMAS, MARC, US
[72] WATKINS, JEFFRY D., US
[72] WU, CHI-FANG, US
[72] MENDLEIN, JOHN D., US
[73] ATYR PHARMA, INC., US
[85] 2015-09-14
[86] 2014-03-14 (PCT/US2014/029699)
[87] (WO2014/145050)
[30] US (61/789,011) 2013-03-15

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[11] **2,907,751**
[13] C

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **3-(2-AMINOPYRIMIDIN-4-YL)-5-(3-HYDROXYPROPYNYL)-1H-PYRROLO[2,3-C]PYRIDINE DERIVATIVES AS NIK INHIBITORS FOR THE TREATMENT OF CANCER**

[54] **DERIVES DE 3-(2-AMINOPYRIMIDIN-4-YL)-5-(3-HYDROXYPROPYNYL)-1H-PYRROLO[2,3-C]PYRIDINE EN TANT QU'INHIBITEURS DE NIK DANS LE TRAITEMENT DU CANCER**

[72] HYND, GEORGE, GB
[72] PRICE, STEPHEN, GB
[72] KULAGOWSKI, JANUSZ, GB
[72] MACLEOD, CALUM, GB
[72] MANN, SAMUEL EDWARD, GB
[72] PANCHAL, TERRY AARON, GB
[72] TISSELLI, PATRIZIA, GB
[72] MONTANA, JOHN GARY, GB
[73] JANSSEN PHARMACEUTICA NV, BE

[85] 2015-09-18
[86] 2014-04-24 (PCT/EP2014/058361)
[87] (WO2014/174021)
[30] EP (13165167.1) 2013-04-24
[30] EP (13186116.3) 2013-09-26

[11] **2,907,753**
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01)**

[25] EN

[54] **IMPROVED MIXING SYRINGE ASSEMBLY**

[54] **ENSEMBLE SERINGUE DE MELANGE AMELIORE**

[72] ANDERSON, IAN, GB
[72] EKMAN, MATT, GB
[72] GLOVER, ROBERT, GB
[72] KOPPELMAN, RACHEL, GB
[73] CONSORT MEDICAL PLC, GB

[85] 2015-09-18
[86] 2014-03-26 (PCT/GB2014/050965)
[87] (WO2014/155114)
[30] GB (1305489.5) 2013-03-26

[11] **2,908,064**
[13] C

[51] **Int.Cl. C10L 9/10 (2006.01) C10L 10/00 (2006.01)**

[25] EN

[54] **FUEL ADDITIVE AND FUEL COMPOSITION**

[54] **ADDITIF POUR CARBURANT ET COMPOSITION DE CARBURANT**

[72] MULDOWNNEY, DANIEL, US
[73] MOTOR SPORTS FUEL AND EQUIPMENT, US

[85] 2015-09-24
[86] 2014-03-26 (PCT/US2014/031909)
[87] (WO2014/160802)
[30] US (61/805,732) 2013-03-27
[30] US (61/970,527) 2014-03-26

[11] **2,908,197**
[13] C

[51] **Int.Cl. H04L 29/06 (2006.01) H04B 7/185 (2006.01) H04L 9/08 (2006.01)**

[25] EN

[54] **KEY DISTRIBUTION IN A SATELLITE SYSTEM**

[54] **DISTRIBUTION DE CLE DANS UN SYSTEME DE SATELLITE**

[72] CLARKE, STEVE, GB
[72] MCCOY, THOMAS, GB
[73] AIRBUS DEFENCE AND SPACE LIMITED, GB

[85] 2015-09-28
[86] 2014-03-28 (PCT/EP2014/056354)
[87] (WO2014/154890)
[30] EP (13275084.5) 2013-03-28

[11] **2,908,244**
[13] C

[51] **Int.Cl. C07D 307/93 (2006.01) C07C 323/42 (2006.01) C07D 207/416 (2006.01) C07D 405/12 (2006.01) C08G 65/334 (2006.01)**

[25] EN

[54] **PROCESS OF MAKING PROSTACYCLIN COMPOUNDS WITH LINKER THIOL AND PEGYLATED FORMS**

[54] **PROCEDE DE FABRICATION DE COMPOSES DE PROSTACYCLINE AYANT UN LIEUR THIOL ET DES FORMES PEGYLEES**

[72] BATRA, HITESH, US
[72] GUO, LIANG, US
[73] UNITED THERAPEUTICS CORPORATION, US

[85] 2015-09-25
[86] 2014-03-24 (PCT/US2014/031574)
[87] (WO2014/160638)
[30] US (61/805,048) 2013-03-25

[11] **2,908,440**
[13] C

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/14 (2006.01) A61K 31/196 (2006.01) A61P 27/14 (2006.01) A61P 35/00 (2006.01) C07C 235/38 (2006.01)**

[25] EN

[54] **TRANILAST COMPOSITIONS AND COCRYSTALS**

[54] **COMPOSITIONS ET CO-CRISTAUX DE TRANILAST**

[72] HOLLAND, JOANNE, GB
[72] FRAMPTON, CHRISTOPHER, GB
[73] NUFORMIX TECHNOLOGIES LIMITED, GB

[85] 2015-09-30
[86] 2013-03-29 (PCT/IB2013/052545)
[87] (WO2013/144916)
[30] US (61/618,639) 2012-03-30

[11] **2,908,459**
[13] C

[51] **Int.Cl. G21B 1/05 (2006.01) H05H 1/14 (2006.01)**

[25] EN

[54] **MAGNETIC FIELD PLASMA CONFINEMENT FOR COMPACT FUSION POWER**

[54] **CONFINEMENT DE PLASMA A CHAMP MAGNETIQUE POUR ENERGIE DE FUSION COMPACTE**

[72] MCGUIRE, THOMAS JOHN, US
[73] LOCKHEED MARTIN CORPORATION, US

[85] 2015-09-30
[86] 2014-04-03 (PCT/US2014/032754)
[87] (WO2014/204555)
[30] US (61/808,089) 2013-04-03
[30] US (61/808,101) 2013-04-03
[30] US (61/808,066) 2013-04-03
[30] US (61/808,136) 2013-04-03
[30] US (61/808,154) 2013-04-03
[30] US (61/808,110) 2013-04-03
[30] US (61/808,093) 2013-04-03
[30] US (61/807,932) 2013-04-03
[30] US (61/808,131) 2013-04-03
[30] US (61/808,122) 2013-04-03
[30] US (14/242,939) 2014-04-02

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[11] **2,909,043**
[13] C

[51] **Int.Cl. A47J 37/04 (2006.01) A47J 37/06 (2006.01)**
[25] FR
[54] **COOKING METHOD FOR A COOKING APPLIANCE WITH A MOTION-INDUCING MEANS AND CORRESPONDING COOKING APPLIANCE**
[54] **PROCEDE DE CUISSON POUR APPAREIL DE CUISSON AVEC MOYEN DE REMUAGE ET APPAREIL DE CUISSON CORRESPONDANT**
[72] DELRUE, OLIVIER, FR
[72] LETAIN, FRANCOIS, FR
[73] SEB S.A., FR
[85] 2015-10-07
[86] 2014-04-11 (PCT/FR2014/050895)
[87] (WO2014/170589)
[30] FR (1353587) 2013-04-19

[11] **2,909,504**
[13] C

[51] **Int.Cl. A61K 31/343 (2006.01) A61P 25/00 (2006.01) A61P 25/32 (2006.01)**
[25] EN
[54] **NALMEFENE FOR TREATMENT OF PATIENTS WITH MOOD DISORDER**
[54] **NALMEFENE POUR LE TRAITEMENT DE PATIENTS ATTEINTS DE TROUBLE DE L'HUMEUR**
[72] MEULIEN, DIDIER, FR
[72] GRUHN, DAVID, DK
[72] TORUP, LARS, DK
[72] STEINIGER-BRACH, BJORN, DK
[73] H. LUNDBECK A/S, DK
[85] 2015-10-14
[86] 2014-04-16 (PCT/EP2014/057678)
[87] (WO2014/170351)
[30] DK (PA201300227) 2013-04-17

[11] **2,909,506**
[13] C

[51] **Int.Cl. A61K 31/343 (2006.01) A61P 25/00 (2006.01) A61P 25/32 (2006.01)**
[25] EN
[54] **NALMEFENE FOR TREATMENT OF PATIENTS WITH ANXIETY DISORDER**
[54] **NALMEFENE POUR LE TRAITEMENT DE PATIENTS ATTEINTS DE TROUBLE DE L'ANXIETE**
[72] MEULIEN, DIDIER, FR
[72] GRUHN, DAVID, DK
[72] TORUP, LARS, DK
[72] STEINIGER-BRACH, BJORN, DK
[73] H. LUNDBECK A/S, DK
[85] 2015-10-14
[86] 2014-04-16 (PCT/EP2014/057679)
[87] (WO2014/170352)
[30] DK (PA201300229) 2013-04-17

[11] **2,909,989**
[13] C

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/686 (2018.01) C12Q 1/6876 (2018.01) G16B 20/00 (2019.01) G16B 30/10 (2019.01)**
[25] EN
[54] **METHOD AND KIT FOR MULTIPLEX DNA TYPING OF HLA GENE**
[54] **PROCEDE ET TROUSSE DE TYPAGE D'ADN MULTIPLEXE DU GENE HLA**
[72] SHIINA, TAKASHI, JP
[72] SUZUKI, SHINGO, JP
[72] WADA, YUKI, JP
[72] MITSUNAGA, SHIGEKI, JP
[72] INOKO, HIDETOSHI, JP
[73] GENODIVE PHARMA INC., JP
[85] 2015-10-20
[86] 2014-05-09 (PCT/JP2014/062433)
[87] (WO2014/181854)
[30] JP (2013-099547) 2013-05-09

[11] **2,910,025**
[13] C

[51] **Int.Cl. B66D 1/74 (2006.01)**
[25] EN
[54] **PULLEY FOR HIGH-EFFICIENCY WINCH**
[54] **POULIE POUR TREUIL A HAUT RENDEMENT**
[72] IPPOLITO, MASSIMO, IT
[73] KITE GEN RESEARCH S.R.L., IT
[85] 2015-10-21
[86] 2014-03-26 (PCT/IT2014/000081)
[87] (WO2014/174541)
[30] IT (TO2013A000322) 2013-04-22

[11] **2,910,054**
[13] C

[51] **Int.Cl. A63B 65/12 (2006.01) A63B 69/40 (2006.01)**
[25] EN
[54] **THROWING DEVICE**
[54] **DISPOSITIF DE LANCEMENT**
[72] SIEVERS, ROGER, US
[73] SIEVERS, ROGER, US
[85] 2015-10-21
[86] 2014-04-22 (PCT/US2014/035006)
[87] (WO2014/176263)
[30] US (61/814,561) 2013-04-22

[11] **2,910,412**
[13] C

[51] **Int.Cl. E04B 1/82 (2006.01) E04F 15/20 (2006.01) G10K 11/165 (2006.01) E04B 1/84 (2006.01)**
[25] EN
[54] **AN ACOUSTIC DAMPING BUILDING MATERIAL**
[54] **MATERIAU DE CONSTRUCTION D'AMORTISSEMENT ACOUSTIQUE**
[72] GLEESON, JAMES, AU
[72] LAING, KARL, AU
[72] O'CHEE, MILTON, AU
[72] PAGONES, PETER, AU
[73] JAMES HARDIE TECHNOLOGY LIMITED, IE
[85] 2015-10-26
[86] 2014-05-13 (PCT/EP2014/059791)
[87] (WO2014/184205)
[30] GB (1308520.4) 2013-05-13
[30] GB (1322669.1) 2013-12-20

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[11] **2,910,555**
[13] C

[51] **Int.Cl. G01N 21/89 (2006.01)**
[25] FR
[54] **MACHINE FOR WEAVING OR WINDING A FIBROUS TEXTURE THAT ALLOWS CHECKS FOR ANAMOLY TO BE MADE USING IMAGE ANALYSIS**
[54] **MACHINE A TISSER OU ENROULER UNE TEXTURE FIBREUSE PERMETTANT UN CONTROLE D'ANOMALIES PAR ANALYSE D'IMAGES**
[72] MATHON, RICHARD, FR
[72] CORRADINI, SYLVAIN, FR
[72] DURAND, JEAN-FRANCOIS, FR
[73] SNECMA, FR
[85] 2015-10-22
[86] 2014-04-18 (PCT/FR2014/050956)
[87] (WO2014/174193)
[30] FR (1353888) 2013-04-26

[11] **2,910,570**
[13] C

[51] **Int.Cl. B32B 7/06 (2019.01) B32B 7/10 (2006.01) B32B 27/40 (2006.01)**
[25] EN
[54] **MULTI-LAYERED ASSEMBLY WITH TIGHT PEEL CONTROL**
[54] **ENSEMBLE MULTI-COUCHES A REGULATION DE DECOLLEMENT ETROITE**
[72] BURKE, THOMAS C., US
[72] O'BRIEN, JEFFREY JAMES, US
[72] VLASENKO, VIKTOR, US
[73] ARGOTEC LLC, US
[85] 2015-10-27
[86] 2014-04-29 (PCT/US2014/035912)
[87] (WO2014/179336)
[30] US (61/816,836) 2013-04-29

[11] **2,910,603**
[13] C

[51] **Int.Cl. A61F 2/24 (2006.01) A61L 27/38 (2006.01)**
[25] EN
[54] **METHOD FOR DIRECTING CELLULAR MIGRATION PATTERNS ON A BIOLOGICAL TISSUE**
[54] **PROCEDE D'ORIENTATION DES MOTIFS DE MIGRATION CELLULAIRE SUR UN TISSU BIOLOGIQUE**
[72] BENTON, JULIE A., US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2015-10-22
[86] 2014-10-08 (PCT/US2014/059706)
[87] (WO2015/054393)
[30] US (61/888,080) 2013-10-08
[30] US (14/495,621) 2014-09-24

[11] **2,911,760**
[13] C

[51] **Int.Cl. B42D 25/30 (2014.01) B42D 25/328 (2014.01) G07F 7/12 (2006.01) G02B 5/18 (2006.01)**
[25] EN
[54] **NANOSTRUCTURE ARRAY DIFFRACTIVE OPTICS FOR RGB AND CMYK COLOR DISPLAYS**
[54] **ELEMENTS OPTIQUES DE DIFFRACTION A RESEAUX DE NANOSTRUCTURES POUR AFFICHAGES COULEUR RVB ET CMJN**
[72] LANDROCK, CLINTON K., CA
[72] OMRANE, BADR, CA
[72] CHUO, YINDAR, CA
[73] NANOTECH SECURITY CORP., CA
[85] 2015-11-06
[86] 2014-05-12 (PCT/CA2014/050444)
[87] (WO2014/179892)
[30] US (61/822,166) 2013-05-10

[11] **2,911,879**
[13] C

[51] **Int.Cl. A47J 27/022 (2006.01) A47J 36/02 (2006.01) A47J 37/10 (2006.01)**
[25] EN
[54] **COOKWARE WITH SELECTIVELY BONDED LAYERS**
[54] **USTENSILE DE CUISSON DOTE DE COUCHES COLLEES DE MANIERE SELECTIVE**
[72] GROLL, WILLIAM A., US
[72] WATKINS, JOHN, US
[73] ALL-CLAD METALCRAFTERS LLC, US
[85] 2015-11-06
[86] 2014-03-17 (PCT/US2014/030216)
[87] (WO2014/145449)
[30] US (61/787,041) 2013-03-15

[11] **2,912,102**
[13] C

[51] **Int.Cl. E05F 15/73 (2015.01)**
[25] EN
[54] **ALIGNMENT OF OBSTACLE DETECTION COMPONENTS**
[54] **ALIGNEMENT DE COMPOSANTES DE DETECTION D'OBSTACLE**
[72] JANKOVSKY, THOMAS JASON, US
[72] TRYBOSKI, TRACY MICHELLE, US
[73] THE CHAMBERLAIN GROUP, INC., US
[86] (2912102)
[87] (2912102)
[22] 2015-11-17
[30] US (14/550,324) 2014-11-21

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[11] **2,912,139**
[13] C

[51] **Int.Cl. C07J 9/00 (2006.01) A61K 31/575 (2006.01) A61P 1/16 (2006.01) C07J 41/00 (2006.01) C07J 31/00 (2006.01) C07J 71/00 (2006.01)**

[25] EN

[54] **11-HYDROXYL-DERIVATIVES OF BILE ACIDS AND AMINO ACID CONJUGATES THEREOF AS FARNESOID X RECEPTOR MODULATORS**

[54] **DERIVES 11-HYDROXYLE D'ACIDES BILIAIRES ET LEURS CONJUGUES D'ACIDES AMINES EN TANT QUE MODULATEURS DU RECEPTEUR DE FARNESOIDE X**

[72] PELLICCIARI, ROBERTO, IT

[73] INTERCEPT PHARMACEUTICALS, INC., US

[85] 2015-11-10

[86] 2014-05-14 (PCT/EP2014/059896)

[87] (WO2014/184271)

[30] US (61/823,169) 2013-05-14

[11] **2,912,205**
[13] C

[51] **Int.Cl. A01G 3/06 (2006.01)**

[25] EN

[54] **SOD-CUTTING TOOL**

[54] **DEPLAQUEUSE DE GAZON**

[72] GROVUM, ORIN W., CA

[73] GROVUM, ORIN W., CA

[86] (2912205)

[87] (2912205)

[22] 2015-11-18

[11] **2,912,348**
[13] C

[51] **Int.Cl. B64D 11/06 (2006.01)**

[25] EN

[54] **EXIT ROW TABLE FOR AN AIRCRAFT**

[54] **TABLETTE DE RANGEE DE SORTIE POUR AERONEF**

[72] GAGNON, PIERRE, CA

[72] ROY, JORDAN, CA

[72] DEKA, TOM, CA

[72] MAGEAU, CHRISTIAN, CA

[72] MONARDO, MICHELE, CA

[72] HUBER, STEFAN, AT

[72] HASELBERGER, CHRISTOPH, AT

[73] BOMBARDIER INC., CA

[85] 2015-11-12

[86] 2014-04-29 (PCT/IB2014/000637)

[87] (WO2014/184627)

[30] US (61/823,567) 2013-05-15

[11] **2,912,356**
[13] C

[51] **Int.Cl. A01M 29/10 (2011.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR DETERRING BIRDS BY LASER**

[54] **APPAREIL ET PROCEDE POUR REPOUSSER LES OISEAUX PAR LASER**

[72] HENSKES, STEINAR FINN BOYE, NL

[72] TAMMES, PIM ROELOF CLEMENT, NL

[72] SPRANG, TIM, NL

[73] STEINAR HOLDING B.V., NL

[85] 2015-11-12

[86] 2014-05-15 (PCT/NL2014/050306)

[87] (WO2014/185780)

[30] NL (2010805) 2013-05-15

[11] **2,912,530**
[13] C

[51] **Int.Cl. A61M 1/00 (2006.01) A61F 9/007 (2006.01)**

[25] EN

[54] **TRANSFORMER IRRIGATION/ASPIRATION DEVICE**

[54] **DISPOSITIF D'IRRIGATION/ASPIRATION TRANSFORMATEUR**

[72] BEAUVAIS, CHARLES, US

[72] KIRCHHEVEL, G. LAMAR, US

[73] ALCON INC., US

[85] 2015-11-13

[86] 2014-05-08 (PCT/US2014/037293)

[87] (WO2014/197161)

[30] US (61/831,665) 2013-06-06

[11] **2,912,555**
[13] C

[51] **Int.Cl. F28F 19/00 (2006.01) F23L 15/04 (2006.01) F28D 7/16 (2006.01) F28D 21/00 (2006.01)**

[25] EN

[54] **CORROSION RESISTANT AIR PREHEATER WITH LINED TUBES**

[54] **PRECHAUFFEUR D'AIR RESISTANT A LA CORROSION AYANT DES TUBES DOUBLES**

[72] TURNER, STEVE, US

[72] FERGUSON, JOE, US

[72] SCHIFLER, BRIAN, US

[73] CORROSION MONITORING SERVICE, INC., US

[85] 2015-11-13

[86] 2014-05-29 (PCT/US2014/039947)

[87] (WO2014/194045)

[30] US (13/907,262) 2013-05-31

[11] **2,913,311**
[13] C

[51] **Int.Cl. F24F 11/84 (2018.01) F25B 5/00 (2006.01) F25B 6/00 (2006.01)**

[25] EN

[54] **VARIABLE REFRIGERANT FLOW SYSTEM OPERATION IN LOW AMBIENT CONDITIONS**

[54] **FONCTIONNEMENT D'UN SYSTEME D'ECOULEMENT DE FRIGORIGENE VARIABLE EN CONDITIONS AMBIANTES BASSES**

[72] HUNG, DER-KAI, US

[73] LENNOX INDUSTRIES, INC., US

[86] (2913311)

[87] (2913311)

[22] 2015-11-25

[30] US (62/089,817) 2014-12-09

[30] US (14/930,357) 2015-11-02

[11] **2,913,355**
[13] C

[51] **Int.Cl. C07D 489/08 (2006.01) A61K 31/485 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING OXYCODONE HYDROCHLORIDE HAVING LESS THAN 25 PPM 14-HYDROXYCODEINONE**

[54] **PROCEDE DE PREPARATION DE CHLORHYDRATE D'OXYCODONE COMPORTANT MOINS DE 25 PPM DE 14-HYDROXYCODEINONE**

[72] CHAPMAN, ROBERT, US

[72] RIDER, LONN S., US

[72] HONG, QI, US

[72] KYLE, DONALD, US

[72] KUPPER, ROBERT, US

[73] EURO-CELTIQUE S.A., LU

[86] (2913355)

[87] (2913355)

[22] 2005-03-30

[62] 2,774,121

[30] US (60/557,492) 2004-03-30

[30] US (60/601,534) 2004-08-13

[30] US (60/620,072) 2004-10-18

[30] US (60/648,625) 2005-01-31

[30] US (60/651,778) 2005-02-10

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[11] **2,913,398**
[13] C

[51] **Int.Cl. A61L 27/36 (2006.01)**
[25] EN
[54] **DECELLULARIZED MUSCLE MATRIX**
[54] **MATRICE MUSCULAIRE DECELLULAISEE**
[72] XU, HUI, US
[72] WAN, HUA, US
[72] LIAO, I-CHIEN, US
[73] LIFECCELL CORPORATION, US
[85] 2015-11-24
[86] 2013-07-01 (PCT/US2013/048915)
[87] (WO2014/008181)
[30] US (61/668,584) 2012-07-06

[11] **2,913,684**
[13] C

[51] **Int.Cl. H04R 3/00 (2006.01) H04R 5/027 (2006.01)**
[25] EN
[54] **HANDHELD MOBILE RECORDING DEVICE WITH CHARACTERISTIC SELECTION MEANS**
[54] **DISPOSITIF D'ENREGISTREMENT MOBILE ET PORTATIF POURVU D'UN MOYEN DE SELECTION DE CARACTERISTIQUE DE MICROPHONE**
[72] PODHRADSKY, GERHARD, AT
[73] SPEECH PROCESSING SOLUTIONS GMBH, AT
[85] 2015-11-26
[86] 2014-06-11 (PCT/EP2014/062065)
[87] (WO2014/206727)
[30] EP (13173936.9) 2013-06-27

[11] **2,913,835**
[13] C

[51] **Int.Cl. A61K 49/00 (2006.01) A61K 9/107 (2006.01) A61K 9/51 (2006.01)**
[25] EN
[54] **FLUORESCENT SOLID LIPID NANOPARTICLES COMPOSITION AND PREPARATION THEREOF**
[54] **COMPOSITION DE NANOPARTICULES LIPIDES SOLIDES FLUORESCENTES ET SA PREPARATION**
[72] GHIANI, SIMONA, IT
[72] MAIOCCI, ALESSANDRO, IT
[72] CAMINITI, LARA, IT
[72] MIRAGOLI, LUIGI, IT
[73] BRACCO IMAGING S.P.A., IT
[85] 2015-11-27
[86] 2014-05-28 (PCT/EP2014/061082)
[87] (WO2014/191467)
[30] EP (13169851.6) 2013-05-30

[11] **2,914,255**
[13] C

[51] **Int.Cl. G01B 5/02 (2006.01) E02D 17/00 (2006.01)**
[25] EN
[54] **ROCK WALL CLOSURE DETECTION DEVICE**
[54] **DISPOSITIF PERMETTANT DE DETECTER LA CONVERGENCE DE PAROIS ROCHEUSES**
[72] ABREU, RUAL, ZA
[72] MAHLATJ, CASSIUS, ZA
[73] EPIROC DRILLING TOOLS AB, SE
[85] 2015-12-01
[86] 2014-09-02 (PCT/ZA2014/000045)
[87] (WO2015/035430)
[30] ZA (2013/06661) 2013-09-05

[11] **2,914,442**
[13] C

[51] **Int.Cl. F02D 41/22 (2006.01) F02B 63/04 (2006.01) F02D 29/06 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **SYSTEM FOR CALCULATING AND DISPLAYING REMAINING RUNTIME FOR A PORTABLE GENERATOR**
[54] **SYSTEME DE CALCUL ET AFFICHAGE DE LA DUREE RESTANTE DE FONCTIONNEMENT D'UN GENERATEUR PORTABLE**
[72] PRUZINA, STEVEN P., US
[73] GENERAC POWER SYSTEMS, INC., US
[86] (2914442)
[87] (2914442)
[22] 2015-12-09
[30] US (14/963,538) 2015-12-09
[30] US (62/089,577) 2014-12-09
[30] US (62/089,684) 2014-12-09

[11] **2,914,500**
[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/506 (2006.01)**
[25] EN
[54] **A QUINOLINE INHIBITOR OF THE MACROPHAGE STIMULATING 1 RECEPTOR MST1 R**
[54] **INHIBITEUR QUINOLEIQUE DU RECEPTEUR D'ORIGINE NANTAISE MST1R**
[72] SCHADT, OLIVER, DE
[72] ESDAR, CHRISTINA, DE
[72] SCHULTZ-FADEMRECHT, CARSTEN, DE
[72] EICKHOFF, JAN, DE
[73] MERCK PATENT GMBH, DE
[85] 2015-12-04
[86] 2014-05-07 (PCT/EP2014/001231)
[87] (WO2014/194975)
[30] EP (13002926.7) 2013-06-06

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[11] **2,914,865**
[13] C

[51] **Int.Cl. A61G 13/02 (2006.01) A61G 13/06 (2006.01)**
[25] EN
[54] **SURGICAL TABLE AND METHOD OF OPERATING THE SAME**
[54] **TABLE CHIRURGICALE ET SON PROCEDE DE FONCTIONNEMENT**
[72] CLAYTON, MATT, GB
[72] GRAY, MICK, GB
[73] ESCHMANN HOLDINGS LIMITED, GB
[85] 2015-12-09
[86] 2014-06-13 (PCT/EP2014/062471)
[87] (WO2014/198949)
[30] GB (1310671.1) 2013-06-14

[11] **2,915,056**
[13] C

[51] **Int.Cl. G06F 13/14 (2006.01)**
[25] EN
[54] **USING DUAL PHYs TO SUPPORT MULTIPLE PCIE LINK WIDTHS**
[54] **UTILISATION DE PHY DOUBLE POUR ACCUEILLIR DE MULTIPLES LARGEURS DE LIAISON PCIE**
[72] YOUSUF, FAROOQ, US
[73] WESTERN DIGITAL TECHNOLOGIES, INC., US
[85] 2015-12-10
[86] 2014-06-11 (PCT/US2014/042007)
[87] (WO2014/201178)
[30] US (61/833,772) 2013-06-11
[30] US (14/026,062) 2013-09-13

[11] **2,915,272**
[13] C

[51] **Int.Cl. H04H 20/33 (2009.01) H04H 20/42 (2009.01) H04N 21/236 (2011.01) H04N 21/2385 (2011.01) H04N 21/438 (2011.01) H04N 19/61 (2014.01) H04L 27/02 (2006.01)**
[25] EN
[54] **DISTRIBUTION SYSTEM, RECEPTION APPARATUS, AND METHODS FOR TRANSITIONING TO NEW SERVICES**
[54] **SYSTEME DE DISTRIBUTION, APPAREIL DE RECEPTION ET PROCEDES POUR EFFECTUER UNE TRANSITION A DE NOUVEAUX SERVICES**
[72] FAY, LUKE, US
[73] SONY CORPORATION, JP
[85] 2015-12-11
[86] 2014-05-28 (PCT/US2014/039741)
[87] (WO2014/209527)
[30] US (13/930,814) 2013-06-28

[11] **2,916,140**
[13] C

[51] **Int.Cl. A61M 60/135 (2021.01) A61M 60/857 (2021.01) A61M 60/896 (2021.01)**
[25] EN
[54] **INTRA-AORTIC BALLOON APPARATUS, ASSIST DEVICES, AND METHODS FOR IMPROVING FLOW, COUNTERPULSATION, AND HAEMODYNAMICS**
[54] **APPAREIL A BALLONNET INTRA-AORTIQUE, DISPOSITIFS D'AIDE ET PROCEDES D'AMELIORATION DU DEBIT, DE LA CONTREPULSION ET DE L'HEMODYNAMIQUE**
[72] ANAGNOSTOPOULOS, CONSTANTINOS, GB
[73] ANAGNOSTOPOULOS, CONSTANTINOS, GB
[85] 2015-12-18
[86] 2014-06-20 (PCT/IB2014/001672)
[87] (WO2014/203078)
[30] US (61/837,173) 2013-06-20

[11] **2,916,160**
[13] C

[51] **Int.Cl. H01M 4/134 (2010.01) H01M 4/133 (2010.01) H01M 4/587 (2010.01) H01M 4/36 (2006.01) H01M 4/62 (2006.01)**
[25] EN
[54] **NEGATIVE ELECTRODE MIXTURE FOR NON-AQUEOUS ELECTROLYTE SECONDARY CELL AND ITS USE**
[54] **MELANGE D'ELECTRODE NEGATIVE POUR UNE PILE RECHARGEABLE A ELECTROLYTE NON AQUEUX ET SON UTILISATION**
[72] KINPARA, YUJI, JP
[72] FUJISHIGE, JUNICHI, JP
[72] FUJIMOTO, NOBUTAKA, JP
[72] MUKAI, TAKASHI, JP
[72] MORISHITA, MASANORI, JP
[72] SAKAI, TETSUO, JP
[73] SUMITOMO SEIKA CHEMICALS CO., LTD., JP
[73] NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY, JP
[85] 2015-12-18
[86] 2014-03-19 (PCT/JP2014/001586)
[87] (WO2014/207967)
[30] JP (2013-136116) 2013-06-28

[11] **2,916,418**
[13] C

[51] **Int.Cl. G06Q 10/00 (2012.01) G07C 1/30 (2006.01) G08G 1/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING PARKING INFRACTION**
[54] **SYSTEME ET PROCEDE DE DETERMINATION D'INFRACTION DE STATIONNEMENT**
[72] FRANKLIN, WILLIAM GEORGE, CA
[72] BETHUNE, JEFFREY D., CA
[72] LEUNG, RAPHAEL, CA
[72] WALKER, MICHAEL BRADEN, CA
[73] TANNERY CREEK SYSTEMS INC., CA
[86] (2916418)
[87] (2916418)
[22] 2015-12-29

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[51] **Int.Cl. A61D 19/00 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN ANIMAL
DETECTION SYSTEMS**
[54] **PERFECTIONNEMENTS DE
SYSTEMES DE DETECTION
D'ANIMAUX**
[72] FOLKERS, CHRISTIANUS
JOHANNES, NZ
[73] FIELDTECH LIMITED, NZ
[85] 2015-12-21
[86] 2014-07-02 (PCT/NZ2014/000133)
[87] (WO2015/002548)
[30] NZ (612739) 2013-07-02

[11] **2,917,681**
[13] C
[51] **Int.Cl. E21B 21/01 (2006.01) B07B
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[25] EN
[54] **DRILL CUTTINGS CONVEYANCE
SYSTEMS**
[54] **MECANISMES DE TRANSPORT
DE DEBRIS DE FORAGE**
[72] BENDER, SHAWN, US
[72] BRENNEMAN, DONALD C., US
[73] BEITZEL CORPORATION, US
[86] (2917681)
[87] (2917681)
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[51] **Int.Cl. C08G 83/00 (2006.01) C12N
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[25] EN
[54] **POLYMER SUITABLE FOR USE IN
CELL CULTURE**
[54] **POLYMERE ADAPTE A
L'UTILISATION EN CULTURE
CELLULAIRE**
[72] ROWAN, ALAN EDWARD, NL
[72] EKSTEEN AKEROYD, ZASKIA
HILLET, NL
[72] WILSON, CHRISTOPHER, GB
[72] GEUTJES, PETRUS JOHANNES, NL
[72] FEITZ, WOUTER F.J., NL
[72] OOSTERWIJK, EGBERT, NL
[73] STICHTING RADBOUD
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CENTRUM, NL
[85] 2016-01-15
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[51] **Int.Cl. H04L 27/34 (2006.01)**
[25] EN
[54] **NON-UNIFORM
CONSTELLATIONS**
[54] **CONSTELLATIONS NON
UNIFORMES**
[72] MOUHOUCHE, BELKACEM, GB
[72] ANSORREGUI LOBETE, DANIEL,
GB
[72] JEONG, HONG-SIL, KR
[73] SAMSUNG ELECTRONICS CO.,
LTD., KR
[85] 2016-01-28
[86] 2014-07-08 (PCT/KR2014/006125)
[87] (WO2015/005657)
[30] GB (GB1312243.7) 2013-07-08
[30] GB (GB1313419.2) 2013-07-26
[30] GB (GB1315740.9) 2013-09-04
[30] GB (GB1319202.6) 2013-10-30
[30] GB (GB1401711.5) 2014-01-31
[30] GB (GB1410114.1) 2014-06-06
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[11] **2,919,978**
[13] C
[51] **Int.Cl. A47D 9/02 (2006.01)**
[25] EN
[54] **INFANT CALMING/SLEEP-AID,
SIDS PREVENTION DEVICE, AND
METHOD OF USE**
[54] **DISPOSITIF DE PREVENTION
CONTRE LA MORT SUBITE DU
NOURRISSON, D'AIDE AU
SOMMEIL/AU CALME DE BEBE
ET PROCEDE D'UTILISATION**
[72] KARP, HARVEY NEIL, US
[72] BERLIN, MATTHEW R., US
[72] GRAY, JESSE V., US
[72] WASHABAUGH, BILL WALTER, US
[72] ROY, DEB KUMAR, US
[73] HB INNOVATIONS, INC., US
[85] 2016-01-29
[86] 2014-07-31 (PCT/US2014/049253)
[87] (WO2015/017709)
[30] US (61/860,752) 2013-07-31
[30] US (61/975,541) 2014-04-04

[11] **2,920,490**
[13] C
[51] **Int.Cl. H01L 21/368 (2006.01) C01G
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(2006.01) H01L 29/786 (2006.01)**
[25] EN
[54] **OXIDE SEMICONDUCTOR
LAYER AND PRODUCTION
METHOD THEREFOR, OXIDE
SEMICONDUCTOR PRECURSOR,
OXIDE SEMICONDUCTOR
LAYER, SEMICONDUCTOR
ELEMENT, AND ELECTRONIC
DEVICE**
[54] **COUCHE D'OXYDE DE SEMI-
CONDUCTEUR ET PROCEDE DE
PRODUCTION
CORRESPONDANT,
PRECURSEUR D'OXYDE DE
SEMI-CONDUCTEUR, COUCHE
D'OXYDE DE SEMI-
CONDUCTEUR, ELEMENT SEMI-
CONDUCTEUR ET DISP OSITIF
ELECTRONIQUE**
[72] INOUE, SATOSHI, JP
[72] SHIMODA, TATSUYA, JP
[72] KAWAKITA, TOMOKI, JP
[72] FUJIMOTO, NOBUTAKA, JP
[72] NISHIOKA, KIYOSHI, JP
[73] SUMITOMO SEIKA CHEMICALS
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[73] JAPAN ADVANCED INSTITUTE OF
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[85] 2016-02-03
[86] 2014-07-04 (PCT/JP2014/067960)
[87] (WO2015/019771)
[30] JP (2013-166318) 2013-08-09
[30] JP (2013-262975) 2013-12-19

[11] **2,920,827**
[13] C
[51] **Int.Cl. A01K 5/00 (2006.01) A01D
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[25] EN
[54] **FEED WAGON**
[54] **CHARIOT A ALIMENTS**
[72] VAN DEN BERG, KAREL, NL
[72] PASTOOR, JAN LAMBERTUS, NL
[72] SIE, HOWARD, NL
[72] HUYZER, ARIE, NL
[72] VAN KUILENBURG, JAN
MARTINUS, NL
[73] LELY PATENT N.V., NL
[85] 2016-02-09
[86] 2014-07-31 (PCT/NL2014/050533)
[87] (WO2015/037983)
[30] NL (2011413) 2013-09-10

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[13] C

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[25] EN

[54] **HYDROPONIC CULTIVATION SYSTEM, AND PLANT FACTORY COMPRISING HYDROPONIC CULTIVATION SYSTEM AND EXPANDED POLYSTYRENE FOAM GREENHOUSE**

[54] **SYSTEME DE CULTURE HYDROPONIQUE, ET USINE DE VEGETAUX COMPRENANT LE SYSTEME DE CULTURE HYDROPONIQUE ET UNE SERRE EN MOUSSE DE POLYSTYRENE EXPANSETYRENE**

[72] KITAGAWA, KATSUYUKI, JP

[73] YUGENKAISHA JAPAN TSUSYO, JP

[85] 2016-02-12

[86] 2014-08-14 (PCT/JP2014/004191)

[87] (WO2015/022782)

[30] JP (2013-168614) 2013-08-14

[30] JP (2013-168615) 2013-08-14

[11] **2,923,240**
[13] C

[51] **Int.Cl. H01Q 21/29 (2006.01) B64G 1/66 (2006.01) H01Q 1/44 (2006.01) H01Q 21/22 (2006.01)**

[25] EN

[54] **OMNIDIRECTIONAL ANTENNA SYSTEM**

[54] **SYSTEME D'ANTENNE OMNIDIRECTIONNELLE**

[72] LAVIN, RONALD O., US

[72] LEE, ANDY H., US

[72] PYLE, GLENN T., US

[72] ROBESON, MARK E., US

[73] THE BOEING COMPANY, US

[73] GOVERNMENT OF THE UNITED STATES, AS REPRESENTED BY THE SECRETARY OF THE ARMY, US

[86] (2923240)

[87] (2923240)

[22] 2016-03-08

[30] US (14/731,062) 2015-06-04

[11] **2,923,738**
[13] C

[51] **Int.Cl. G06F 3/023 (2006.01) G06F 3/0488 (2013.01)**

[25] EN

[54] **QUICK TASKS FOR ON-SCREEN KEYBOARDS**

[54] **TACHES RAPIDES POUR CLAVIERS VIRTUELS**

[72] GRIEVES, JASON A., US

[72] BADGER, ERIC NORMAN, US

[72] LINERUD, DREW E., US

[72] BARBERA, HECTOR, US

[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US

[85] 2016-03-08

[86] 2014-09-19 (PCT/US2014/056424)

[87] (WO2015/047881)

[30] US (14/035,758) 2013-09-24

[11] **2,925,510**
[13] C

[51] **Int.Cl. B26B 11/00 (2006.01)**

[25] EN

[54] **MULTI-TOOL ASSEMBLY**

[54] **ENSEMBLE OUTIL POLYVALENT**

[72] RAYMOND, DANIEL J., US

[73] DAN-O-TOOL, LLC, US

[85] 2016-03-24

[86] 2014-09-25 (PCT/US2014/057531)

[87] (WO2015/048337)

[30] US (61/882,187) 2013-09-25

[30] US (61/946,095) 2014-02-28

[30] US (14/497,108) 2014-09-25

[11] **2,925,802**
[13] C

[51] **Int.Cl. A23D 7/00 (2006.01) A23D 7/05 (2006.01) A23D 9/05 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARING A SPREAD**

[54] **PROCEDE DE PREPARATION D'UNE PATE A TARTINER**

[72] ARENDS, BEREND JAN, NL

[72] BEINDORFF, CHRISTIAAN MICHAEL, NL

[72] JANSSEN, JOHANNES JOZEF MARIA, NL

[72] DE MAN, TEUNIS, NL

[72] STEVENS, MARCEL, NL

[73] UPFIELD EUROPE B.V., NL

[85] 2016-03-30

[86] 2014-09-29 (PCT/EP2014/070776)

[87] (WO2015/052026)

[30] EP (13188311.8) 2013-10-11

[11] **2,928,169**
[13] C

[51] **Int.Cl. A62C 3/07 (2006.01) B60K 15/03 (2006.01) B64D 37/32 (2006.01) B64D 45/02 (2006.01)**

[25] EN

[54] **IGNITION-QUENCHING SYSTEMS, APPARATUSES, AND METHODS**

[54] **SYSTEMES, APPAREILS ET METHODES D'ETOUFFEMENT D'ALLUMAGE**

[72] DAMAZO, JASON SCOTT, US

[72] KWON, EDDIE, US

[72] DAY, ARTHUR C., US

[72] LOWELL, JOHN RUBRECHT, US

[73] THE BOEING COMPANY, US

[86] (2928169)

[87] (2928169)

[22] 2016-04-25

[30] US (14/805,259) 2015-07-21

[11] **2,928,474**
[13] C

[51] **Int.Cl. A47K 3/40 (2006.01)**

[25] EN

[54] **ROLL-IN SHOWER AND SHOWER BASE**

[54] **DOUCHE ENCASTREE ET BASE DE DOUCHE**

[72] IANNUCCI, DAVID A., US

[73] IANNUCCI, DAVID A., US

[86] (2928474)

[87] (2928474)

[22] 2016-04-29

[30] US (14/705,287) 2015-05-06

[11] **2,930,416**
[13] C

[51] **Int.Cl. G01D 5/353 (2006.01) G01D 21/00 (2006.01)**

[25] EN

[54] **DISTRIBUTED SENSING SYSTEM EMPLOYING A FILM ADHESIVE**

[54] **SYSTEME DE DETECTION DISTRIBUEE UTILISANT UN FILM ADHESIF**

[72] WYSOCKI, PAUL F., US

[72] LAMBERT, CHRISTOPHER H., US

[72] STOESZ, CARL W., US

[73] BAKER HUGHES HOLDINGS LLC, US

[85] 2016-05-11

[86] 2014-10-03 (PCT/US2014/059000)

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[30] US (14/077,683) 2013-11-12

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[54] TIE STRIPS

[54] BANDES D'ATTACHE

[72] HARSLEY, ANDREW JOHN, GB

[73] RAPSTRAP LIMITED, GB

[85] 2016-05-31

[86] 2014-02-14 (PCT/GB2014/000050)

[87] (WO2014/125241)

[30] GB (1302566.3) 2013-02-14

[11] 2,933,397

[13] C

[51] Int.Cl. G07C 5/08 (2006.01) G06Q 50/30 (2012.01)

[25] EN

[54] METRICS-BASED TRANSPORT VEHICLE FLEET SAFETY

[54] SECURITE D'UNE FLOTTE DE VEHICULES DE TRANSPORT BASEE SUR DES INDICATEURS

[72] WARKENTIN, WARD W., CA

[73] FLEETMETRICA INC., CA

[85] 2016-06-10

[86] 2013-12-20 (PCT/CA2013/001056)

[87] (WO2014/094126)

[30] US (13/722,330) 2012-12-20

[11] 2,933,516

[13] C

[51] Int.Cl. H01M 8/18 (2006.01) H01M 8/04 (2016.01) H02J 3/32 (2006.01) H02J 7/34 (2006.01)

[25] EN

[54] ELECTRIC POWER CONVERSION DEVICE AND METHOD FOR CHARGING AND DISCHARGING ENERGY STORAGE DEVICES

[54] DISPOSITIF FORMANT TRANSFORMATEUR DE COURANT ET PROCEDE DE CHARGE ET DE DECHARGE D'ACCUMULATEURS D'ENERGIE

[72] LUETH, THOMAS, DE

[73] TRUMPF HUTTINGER GMBH + CO. KG, DE

[85] 2016-06-10

[86] 2015-01-27 (PCT/EP2015/051586)

[87] (WO2015/113964)

[30] DE (10 2014 100 989.4) 2014-01-28

[11] 2,933,656

[13] C

[51] Int.Cl. C07K 7/64 (2006.01) A61K 38/00 (2006.01)

[25] EN

[54] BETA-HAIRPIN

PEPTIDOMIMETICS AS SELECTIVE ELASTASE INHIBITORS

[54] COMPOSES

PEPTIDOMIMETIQUES EN EPINGLE A CHEVEUX BETA UTILISES COMME INHIBITEURS SELECTIFS DE L'ELASTASE

[72] GOMBERT, FRANK OTTO, CH

[72] OBRECHT, DANIEL, CH

[72] SELLIER-KESSLER, ODILE, FR

[73] POLYPHOR AG, CH

[85] 2016-06-13

[86] 2013-12-27 (PCT/EP2013/078072)

[87] (WO2015/096872)

[11] 2,934,468

[13] C

[51] Int.Cl. B61L 1/10 (2006.01) B61L 25/04 (2006.01) G05D 1/00 (2006.01)

[25] EN

[54] WAYSIDE GUIDEWAY VEHICLE DETECTION AND SWITCH DEADLOCKING SYSTEM WITH A MULTIMODAL GUIDEWAY VEHICLE SENSOR

[54] DETECTION DE VEHICULE DE VOIE DE GUIDAGE DE BORD DE ROUTE ET SYSTEME DE VERROUILLAGE DE COMMUTATEUR COMPORTANT UN CAPTEUR MULTIMODAL DE VEHICULE DE VOIE DE GUIDAGE

[72] GREEN, ALON, CA

[72] WHITWAM, FIRTH, CA

[73] THALES CANADA INC., CA

[85] 2016-06-17

[86] 2014-07-30 (PCT/IB2014/063529)

[87] (WO2015/092556)

[30] US (14/137,461) 2013-12-20

[11] 2,935,138

[13] C

[51] Int.Cl. G16B 25/10 (2019.01) C12N 15/115 (2010.01) C12Q 1/6813 (2018.01) C12Q 1/68 (2018.01) C40B 30/04 (2006.01) G01N 33/50 (2006.01)

[25] EN

[54] MARKER FOR GENERATING BINDING INFORMATION ON BIOMOLECULES AND NUCLEIC ACIDS, PREPARATION METHOD THEREFOR, AND METHOD AND APPARATUS FOR ANALYZING BIOMOLECULE BY USING SAME

[54] MARQUEUR POUR GENERER DES INFORMATIONS DE LIAISON SUR DES BIOMOLECULES ET DES ACIDES NUCLEIQUES, PROCEDE DE PREPARATION AFFERENT, ET PROCEDE ET APPAREIL D'ANALYSE DE BIOMOLECULE LES UTILISANT

[72] KIM, SUNG-CHUN, KR

[73] KIM, SUNG-CHUN, KR

[85] 2016-06-27

[86] 2014-05-08 (PCT/KR2014/004107)

[87] (WO2015/060511)

[30] KR (10-2013-0125675) 2013-10-22

[11] 2,935,495

[13] C

[51] Int.Cl. C07D 401/04 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01)

[25] EN

[54] 3-(5-SUBSTITUTED-4-OXOQUINAZOLIN-3(4H)-YL)-3-DEUTERO-PIPERIDINE-2,6-DIONE DERIVATIVES

[54] DERIVES DE 3-(5-SUBSTITUTE-4-OXOQUINAZOLIN-3(4H)-YL)-3-DEUTERO-PIPERIDINE-2,6-DIONE

[72] DEWITT, SHEILA, US

[73] DEUTERX, LLC, US

[85] 2016-06-29

[86] 2014-01-14 (PCT/US2014/011440)

[87] (WO2014/110558)

[30] US (61/752,055) 2013-01-14

[30] US (61/786,024) 2013-03-14

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[13] C

[51] **Int.Cl. G06Q 30/02 (2012.01) G06Q 30/06 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR CUSTOMER EXPERIENCE MANAGEMENT**
[54] **SYSTEME ET PROCEDE DE GESTION D'EXPERIENCE DE CLIENT**
[72] SURRIDGE, MATTHEW JAMES, US
[72] VERRALL, ANDREW THOMAS CHARLES, US
[72] SMITH, CAMERON DAVID, US
[72] HEDGES, GREGORY JOHN, US
[72] TE BOOIJ, MERIJN, US
[73] GREENEDEN U.S. HOLDINGS II, LLC, US
[85] 2016-07-08
[86] 2014-12-23 (PCT/US2014/072297)
[87] (WO2015/100391)
[30] US (14/141,405) 2013-12-26

[11] **2,937,283**
[13] C

[51] **Int.Cl. C21D 8/02 (2006.01) B21C 37/08 (2006.01) C22C 1/10 (2006.01) C22C 19/00 (2006.01) C22C 19/03 (2006.01) C22C 38/04 (2006.01) C22C 38/08 (2006.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING A STRIP HAVING A VARIABLE THICKNESS AND ASSOCIATED STRIP**
[54] **PROCEDE DE FABRICATION D'UNE BANDE D'EPAISSEUR VARIABLE ET BANDE ASSOCIEE**
[72] PANIER, ROLAND, FR
[72] REYDET, PIERRE-LOUIS, FR
[72] LAURAIN, NICOLAS, FR
[73] APERAM, LU
[85] 2016-07-13
[86] 2014-01-17 (PCT/IB2014/058350)
[87] (WO2015/107393)

[11] **2,938,929**
[13] C

[51] **Int.Cl. B67D 7/34 (2010.01)**
[25] EN
[54] **APPARATUS FOR EMPTYING A FLUID CONTAINER AND METHOD FOR COUPLING A FLUID CONTAINER TO A CORRESPONDING APPARATUS**
[54] **APPAREIL PERMETTANT DE VIDER UN RECIPIENT DE FLUIDE ET PROCEDE D'ACCOUPLLEMENT D'UN RECIPIENT DE FLUIDE A UN APPAREIL CORRESPONDANT**
[72] SCHWEBLE, MARTIN, DE
[72] NAHIDINO, MASSOUD, DE
[73] ECOLAB USA INC., US
[85] 2016-08-05
[86] 2014-02-10 (PCT/EP2014/052534)
[87] (WO2015/117679)

[11] **2,940,587**
[13] C

[51] **Int.Cl. E04F 15/02 (2006.01)**
[25] EN
[54] **PANEL INTERCONNECTABLE WITH SIMILAR PANELS FOR FORMING A COVERING**
[54] **PANNEAU EMBOITABLE AVEC DES PANNEAUX SIMILAIRES POUR FORMER UN REVETEMENT DE SOL**
[72] BOUCKE, EDDY ALBERIC, BE
[72] RIETVELDT, JOHAN CHRISTIAAN, NL
[73] I4F LICENSING NV, BE
[85] 2016-08-23
[86] 2015-02-26 (PCT/NL2015/050120)
[87] (WO2015/130169)
[30] NL (PCT/NL2014/050118) 2014-02-26
[30] BY (a20150107) 2015-02-23

[11] **2,943,953**
[13] C

[51] **Int.Cl. F42B 3/13 (2006.01)**
[25] EN
[54] **REACTIVE SEMICONDUCTOR BRIDGE WITH OXIDE OVERCOAT**
[54] **PONT SEMI-CONDUCTEUR REACTIF A COUCHE DE FINITION D'OXYDE**
[72] BURKY, THOMAS E., US
[72] CARPENTER, JEFFREY P., US
[72] DUES, LAURA, US
[73] BATTELLE MEMORIAL INSTITUTE, US
[85] 2016-09-23
[86] 2015-03-24 (PCT/US2015/022130)
[87] (WO2015/148437)
[30] US (61/969,696) 2014-03-24

[11] **2,944,952**
[13] C

[51] **Int.Cl. A61K 31/727 (2006.01)**
[25] EN
[54] **CARRIER STATUS OF ANNEXIN A5 M2 HAPLOTYPE AND OBSTETRIC RISKS**
[54] **STATUT DE PORTEUR DE L'HAPLOTYPE D'ANNEXINE A5 M2 ET RISQUES OBSTETRIQUES**
[72] BAKER, DEBORAH, GB
[73] IHG PHARMACO LIMITED, GB
[85] 2016-10-05
[86] 2015-04-07 (PCT/GB2015/051066)
[87] (WO2015/155523)
[30] US (61/976,223) 2014-04-07
[30] US (62/032,099) 2014-08-01
[30] US (62/085,672) 2014-12-01
[30] US (62/115,230) 2015-02-12

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[11] **2,945,359**
[13] C

[51] **Int.Cl. A47B 96/04 (2006.01)**
[25] EN
[54] **SHELF PARTITION FOR
DISPLAYING BAGGED FOOD
ITEMS AND METHOD OF USING
THE SAME**
[54] **DIVISEUR DE TABLETTE
DESTINE A PRESENTER DES
ARTICLES ALIMENTAIRES
ENSACHES ET METHODE
D'UTILISATION ASSOCIEE**
[72] COLLETTE, STEPHEN ROBERT, US
[73] POST CONSUMER BRANDS, LLC,
US
[86] (2945359)
[87] (2945359)
[22] 2016-10-14
[30] US (15/146,349) 2016-05-04

[11] **2,946,286**
[13] C

[51] **Int.Cl. C09J 7/30 (2018.01) B65H
21/00 (2006.01) C09J 107/00 (2006.01)**
[25] EN
[54] **ADHESIVE TAPE COMPRISING A
NATURAL RUBBER COMPOUND**
[54] **RUBAN ADHESIF COMPRENANT
UN COMPOSE DE CAOUTCHOUC
NATUREL**
[72] VON WEDEL-PARLOW, TOBIAS,
DE
[72] CZERWONATIS, NIELS, DE
[72] GOTZ, KERSTIN, DE
[72] SCHONROCK, JULIA, DE
[73] TESA SE, DE
[86] (2946286)
[87] (2946286)
[22] 2016-10-25
[30] DE (10 2015 222 282.9) 2015-11-12

[11] **2,950,699**
[13] C

[51] **Int.Cl. B64G 1/58 (2006.01)**
[25] EN
[54] **STRUCTURALLY INTEGRATED
THERMAL MANAGEMENT
SYSTEM FOR AEROSPACE
VEHICLES**
[54] **SYSTEME DE GESTION
THERMIQUE INTEGREE
STRUCTURELLEMENT DESTINE
A DES VEHICULES
AEROSPATIAUX**
[72] BLANDING, DAVID E., US
[72] MULEY, ARUN, US
[72] COFFMAN, JEFFREY C., US
[72] AFFELEN, DOUG VAN, US
[73] THE BOEING COMPANY, US
[86] (2950699)
[87] (2950699)
[22] 2016-12-02
[30] US (15/056,731) 2016-02-29

[11] **2,945,684**
[13] C

[51] **Int.Cl. G06F 16/955 (2019.01) G06F
16/93 (2019.01) G06F 16/958 (2019.01)**
[25] EN
[54] **BATCH GENERATION OF LINKS
TO DOCUMENTS BASED ON
DOCUMENT NAME AND PAGE
CONTENT MATCHING**
[54] **GENERATION PAR LOT DE
LIENS VERS DES DOCUMENTS
D'APRES UNE
CORRESPONDANCE DE NOMS
DE DOCUMENTS ET DE
CONTENUS DE PAGES**
[72] KUTILEK, JACK, US
[72] NOYES, PETER, US
[73] BLUEBEAM, INC., US
[85] 2016-07-27
[86] 2015-01-27 (PCT/US2015/013142)
[87] (WO2015/116604)
[30] US (14/171,475) 2014-02-03

[11] **2,947,033**
[13] C

[51] **Int.Cl. F21V 13/12 (2006.01) F21V
3/04 (2018.01) F21V 5/08 (2006.01)
F21V 13/14 (2006.01) F21K 9/00
(2016.01) F21V 7/00 (2006.01)**
[25] EN
[54] **WALL WASH LIGHTING SYSTEM**
[54] **SYSTEME D'ECLAIRAGE LECHE-
MUR**
[72] GRASSI, DAVID MICHAEL, US
[73] LUMENPULSE GROUP
INC./GROUPE LUMENPULSE INC.,
CA
[85] 2016-10-25
[86] 2015-05-21 (PCT/US2015/031932)
[87] (WO2015/183684)
[30] US (14/287,349) 2014-05-27

[11] **2,950,991**
[13] C

[51] **Int.Cl. E02D 7/00 (2006.01) E02D 5/28
(2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR
INSTALLING PILE STRUCTURES
IN PERMAFROST**
[54] **SYSTEMES ET METHODES
D'INSTALLATION DE
STRUCTURES DE PIEU DANS LE
PERGELISOL**
[72] SUVER, PAUL, US
[72] FENWICK, MATTHEW E., US
[73] AMERICAN PILEDIVING
EQUIPMENT, INC., US
[86] (2950991)
[87] (2950991)
[22] 2016-12-08
[30] US (62/266,379) 2015-12-11
[30] US (15/372,196) 2016-12-07

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[11] **2,952,114**
[13] C

[51] **Int.Cl. H04W 4/18 (2009.01) H04W 80/00 (2009.01) H04W 88/02 (2009.01) G08B 21/12 (2006.01) H04B 1/59 (2006.01) H04L 12/28 (2006.01)**

[25] EN

[54] **GAS MONITOR, SYSTEM AND METHOD**

[54] **APPAREIL DE SURVEILLANCE DE GAZ, SYSTEME ET PROCEDE CONNEXES**

[72] ALBINGER, ROBERT E., US
[72] LAWLER, CODY T., US
[72] MICHAUD, TOM, US
[72] BERUBE, MICHAEL, US
[72] DUNKIN, BRIAN, US
[72] HAKINS, DAVID W., US
[72] BERTOSH, MICHAEL W., US
[72] HURST, RICHARD, US
[73] STRATA PRODUCTS WORLDWIDE, LLC, US

[86] (2952114)
[87] (2952114)
[22] 2014-10-03
[62] 2,866,032
[30] US (61/887,768) 2013-10-07

[11] **2,952,455**
[13] C

[51] **Int.Cl. G08G 1/087 (2006.01) G08G 1/065 (2006.01)**

[25] EN

[54] **ADAPTIVE TRAFFIC SIGNAL PREEMPTION**

[54] **TRAITEMENT DE PRIORITE ADAPTATIF POUR FEUX DE CIRCULATION**

[72] EICHHORST, KEVIN CLARE, US
[73] GLOBAL TRAFFIC TECHNOLOGIES, LLC, US

[85] 2016-12-14
[86] 2015-06-19 (PCT/US2015/036574)
[87] (WO2015/196010)
[30] US (14/309,165) 2014-06-19

[11] **2,954,539**
[13] C

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 3/10 (2006.01) C12N 9/90 (2006.01) C12N 15/61 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING DIABETES**

[54] **COMPOSITIONS ET PROCEDES POUR LE TRAITEMENT DU DIABETE**

[72] OZCAN, UMUT, US
[72] HERREMA, HILDE, NL
[73] THE CHILDREN'S MEDICAL CENTER CORPORATION, US

[85] 2017-01-06
[86] 2015-07-08 (PCT/US2015/039576)
[87] (WO2016/007644)
[30] US (62/021,859) 2014-07-08
[30] US (62/087,566) 2014-12-04

[11] **2,955,418**
[13] C

[51] **Int.Cl. H02G 15/105 (2006.01) G01R 31/08 (2020.01) G01R 31/12 (2020.01)**

[25] EN

[54] **ELECTRICAL CABLE LINK APPARATUS AND ELECTRICAL CABLE SYSTEM COMPRISING THE APPARATUS**

[54] **APPAREIL DE LIAISON DE CABLES ELECTRIQUES ET SYSTEME DE CABLES ELECTRIQUES COMPORTANT L'APPAREIL**

[72] DE RAI, LUCA GIORGIO MARIA, IT
[72] CANDELA, ROBERTO, IT
[72] DI STEFANO, ANTONIO, IT
[73] PRYSMIAN S.P.A., IT

[85] 2017-01-17
[86] 2014-07-18 (PCT/EP2014/065518)
[87] (WO2016/008542)

[11] **2,956,486**
[13] C

[51] **Int.Cl. A47J 43/20 (2006.01) A23P 30/10 (2016.01) F25C 1/243 (2018.01) A47J 37/01 (2006.01) B29C 33/00 (2006.01)**

[25] FR

[54] **FABRICATION PROCESS FOR A FLEXIBLE MOULD WITH A PERIPHERAL STIFFENER, AND MOULD RESULTING FROM THE SAID PROCESS**

[54] **PROCEDE DE FABRICATION D'UN MOULE FLEXIBLE A RAIDISSEUR PERIPHERIQUE, ET MOULE RESULTANT DUDIT PROCEDE**

[72] VIANCIN, JEAN-CHARLES, CN
[73] VIANCIN, JEAN-CHARLES, CN

[86] (2956486)
[87] (2956486)
[22] 2017-01-26
[30] FR (16 50676) 2016-01-28

[11] **2,956,589**
[13] C

[51] **Int.Cl. G05B 19/042 (2006.01) F24F 11/49 (2018.01) H05B 47/10 (2020.01) H02J 13/00 (2006.01)**

[25] EN

[54] **AUTOMATIC CONFIGURATION OF A LOAD CONTROL SYSTEM**

[54] **CONFIGURATION AUTOMATIQUE D'UN SYSTEME DE COMMANDE DE CHARGES**

[72] KNODE, GALEN EDGAR, US
[72] KOBER, STEVEN J., US
[72] RANERI, DANIEL CURTIS, US
[72] WALSH, RICHARD M., III, US
[73] LUTRON TECHNOLOGY COMPANY LLC, US

[85] 2017-01-24
[86] 2015-07-24 (PCT/US2015/042022)
[87] (WO2016/014957)
[30] US (62/029,177) 2014-07-25

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[11] **2,957,847**
[13] C

[51] **Int.Cl. A61F 7/12 (2006.01) A61C 19/06 (2006.01) A61F 7/00 (2006.01) A61M 19/00 (2006.01)**

[25] EN
[54] **MOUTH COOLER**
[54] **REFROIDISSEUR DE BOUCHE**
[72] BERG, JON, SE
[72] WALEIJ, MARTIN, SE
[72] JONTELL, MATS, SE
[73] BRAINCOOL AB, SE
[85] 2017-02-10
[86] 2015-08-11 (PCT/EP2015/068498)
[87] (WO2016/023920)
[30] SE (1450930-1) 2014-08-11

[11] **2,958,754**
[13] C

[51] **Int.Cl. G02B 26/08 (2006.01) B81B 7/02 (2006.01) G02B 6/12 (2006.01)**

[25] EN
[54] **METHODS AND SYSTEMS FOR MICROELECTROMECHANICAL PACKAGING**
[54] **PROCEDES ET SYSTEMES POUR CONDITIONNEMENT MICRO-ELECTROMECHANIQUE**
[72] MENARD, FRANCOIS, CA
[72] BERARD, MARTIN, CA
[72] MENARD, MICHAEL, CA
[72] NABKI, FREDERIC, CA
[73] AEPONYX INC., CA
[73] UNIVERSITE DU QUEBEC A MONTREAL, CA
[85] 2017-02-15
[86] 2015-08-17 (PCT/CA2015/000466)
[87] (WO2016/023105)
[30] US (62/037,655) 2014-08-15

[11] **2,959,483**
[13] C

[51] **Int.Cl. B65D 63/10 (2006.01) B65D 85/18 (2006.01)**

[25] EN
[54] **ROLLING BAND FOR WRAPPING CLOTHING**
[54] **BANDE DE ROULEMENT PERMETTANT D'ENVELOPPER DES VETEMENTS**
[72] PARK, SO YEON, KR
[73] PARK, SO YEON, KR
[85] 2017-02-27
[86] 2015-08-27 (PCT/KR2015/009003)
[87] (WO2016/032262)
[30] KR (10-2014-0112926) 2014-08-28

[11] **2,959,651**
[13] C

[51] **Int.Cl. G06F 7/00 (2006.01)**

[25] EN
[54] **SYSTEM AND PROCESS FOR ANALYZING, QUALIFYING AND INGESTING SOURCES OF UNSTRUCTURED DATA VIA EMPIRICAL ATTRIBUTION**
[54] **SYSTEME ET PROCEDE D'ANALYSE, DE QUALIFICATION ET D'INGESTION DE SOURCES DE DONNEES NON STRUCTUREES PAR LE BIAIS D'UNE ATTRIBUTION EMPIRIQUE**
[72] SCRIFFIGNANO, ANTHONY J., US
[72] SUNBHANICH, YIEM, US
[72] DAVIES, ROBIN FRY, US
[72] MATTHEWS, WARWICK, AU
[73] THE DUN & BRADSTREET CORPORATION, US
[85] 2017-02-28
[86] 2015-09-03 (PCT/US2015/048322)
[87] (WO2016/036940)
[30] US (62/045,398) 2014-09-03

[11] **2,960,229**
[13] C

[51] **Int.Cl. F16L 55/44 (2006.01)**

[25] EN
[54] **GUIDE FOR A PIPELINE PIG**
[54] **GUIDE DE RACLEUR DE PIPELINE**
[72] WALTER, BRONISLAV, CA
[72] WALTER, SCOTT, CA
[73] PLP PIPE LINE PRODUCTS AND SERVICES INC., CA
[86] (2960229)
[87] (2960229)
[22] 2017-03-08
[30] CA (2,923,031) 2016-03-08

[11] **2,960,729**
[13] C

[51] **Int.Cl. H04B 1/7143 (2011.01)**

[25] EN
[54] **TECHNIQUES FOR GENERATING AN OPTIMIZED CHANNEL HOPPING SEQUENCE**
[54] **TECHNIQUES POUR LA GENERATION D'UNE SEQUENCE DE SAUT DE CANAL OPTIMISEE**
[72] HARTMAN, JAMES, US
[73] LANDIS+GYR INNOVATIONS, INC., US
[85] 2017-03-08
[86] 2015-09-28 (PCT/US2015/052550)
[87] (WO2016/057252)
[30] US (14/511,630) 2014-10-10

[11] **2,961,147**
[13] C

[51] **Int.Cl. B23K 9/095 (2006.01) B23K 9/32 (2006.01) B23K 31/00 (2006.01) B23K 37/00 (2006.01) G09B 19/24 (2006.01)**

[25] EN
[54] **SYSTEM AND METHOD OF ACTIVE TORCH MARKER CONTROL**
[54] **SYSTEME ET PROCEDE DE CONTROLE ACTIF DE MARQUEUR DE CHALUMEAU**
[72] BECKER, WILLIAM JOSHUA, US
[72] WEBER, JEFFREY DALE, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2017-03-10
[86] 2015-11-02 (PCT/US2015/058567)
[87] (WO2016/073332)
[30] US (62/075,701) 2014-11-05
[30] US (14/928,657) 2015-10-30

[11] **2,961,806**
[13] C

[51] **Int.Cl. B23K 9/095 (2006.01) G09B 19/24 (2006.01)**

[25] EN
[54] **SYSTEM AND METHOD OF RECORDING MULTI-RUN DATA**
[54] **SYSTEME ET PROCEDE D'ENREGISTREMENT DE DONNEES A PLUSIEURS PASSES**
[72] BECKER, WILLIAM JOSHUA, US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2017-03-17
[86] 2015-11-02 (PCT/US2015/058667)
[87] (WO2016/073374)
[30] US (62/075,723) 2014-11-05
[30] US (14/928,723) 2015-10-30

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[11] **2,961,906**
[13] C

[51] **Int.Cl. B23K 9/09 (2006.01) H02M 1/40 (2007.01) H02M 7/487 (2007.01) B23K 9/10 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS INCLUDING A BALANCED DC BUS FOR PROVIDING POWER IN AN ARC WELDER**

[54] **PROCEDE ET APPAREIL COMPRENANT UN BUS A COURANT CONTINU EQUILIBRE POUR FOURNIR DE L'ENERGIE DANS UN DISPOSITIF DE SOUDAGE A L'ARC**

[72] SCHATNER, QUINN W., US
[72] VOGEL, BERNARD J., US
[72] NELSON, ANDREW D., US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2017-03-20
[86] 2015-10-13 (PCT/US2015/055181)
[87] (WO2016/073145)
[30] US (14/535,994) 2014-11-07

[11] **2,961,909**
[13] C

[51] **Int.Cl. B23K 9/09 (2006.01) H02M 1/40 (2007.01) H02M 7/487 (2007.01) B23K 9/10 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS INCLUDING FLUX BALANCING FOR PROVIDING POWER IN AN ARC WELDER**

[54] **PROCEDE ET APPAREIL COMPRENANT UNE BARRE OMNIBUS POUR COURANT CONTINU EQUILIBRE A DES FINS DE FOURNITURE D'ENERGIE DANS UNE SOUDEUSE A ARC ELECTRIQUE**

[72] SCHATNER, QUINN W., US
[72] VOGEL, BERNARD J., US
[72] NELSON, ANDREW D., US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2017-03-20
[86] 2015-10-13 (PCT/US2015/055182)
[87] (WO2016/073146)
[30] US (14/536,058) 2014-11-07

[11] **2,962,057**
[13] C

[51] **Int.Cl. C10M 137/12 (2006.01) C10M 173/02 (2006.01) C22C 22/00 (2006.01)**

[25] FR

[54] **SURFACE TREATMENT OF METAL SUBSTRATES**

[54] **TRAITEMENT DE SURFACE DE SUBSTRATS METALLIQUES**

[72] LALLEMAND, FABRICE, FR
[72] ROIZARD, XAVIER, FR
[72] MELOT, JEAN-MARIE, FR
[72] BUTERI, AURELIEN, FR
[72] BORGEO, MELANIE, FR
[72] EVRARD, ROMAIN, FR
[73] APERAM, LU
[73] UNIVERSITE DE FRANCHE-COMTE, FR
[85] 2017-03-21
[86] 2015-09-25 (PCT/EP2015/072172)
[87] (WO2016/046401)
[30] FR (1459158) 2014-09-26

[11] **2,962,211**
[13] C

[51] **Int.Cl. E06B 7/00 (2006.01) H05B 3/84 (2006.01) H05K 9/00 (2006.01)**

[25] FR

[54] **HEATED GLASS PANEL FOR ELECTROMAGNETIC SHIELDING**

[54] **VITRAGE CHAUFFANT ET DE BLINDAGE ELECTROMAGNETIQUE**

[72] TONDU, THOMAS, FR
[72] MAYEUX, JEAN-BENOIT, FR
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2017-03-22
[86] 2015-10-07 (PCT/FR2015/052697)
[87] (WO2016/055735)
[30] FR (1459738) 2014-10-10

[11] **2,962,541**
[13] C

[51] **Int.Cl. B64C 1/10 (2006.01) B64F 5/10 (2017.01)**

[25] EN

[54] **PRESSURIZED BULKHEAD**

[54] **CLOISON SOUS PRESSION**

[72] MCNAMARA, KYLE L., US
[72] LAUSER, EDWARD FREDERICK, US
[72] BOWEN, DAVID WILLIAM, US
[72] CROW, KEVIN ANDREW, US
[72] NIEZGODA, MICHAEL STEPHEN, US
[73] THE BOEING COMPANY, US
[86] (2962541)
[87] (2962541)
[22] 2017-03-29
[30] US (15/185159) 2016-06-17

[11] **2,963,086**
[13] C

[51] **Int.Cl. F04B 53/10 (2006.01) E21B 43/12 (2006.01) F04B 47/08 (2006.01) F04B 53/14 (2006.01) F04B 53/16 (2006.01)**

[25] EN

[54] **HYDRAULICALLY ACTUATED DOWNHOLE PUMP WITH TRAVELING VALVE**

[54] **POMPE DE FOND DE TROU A COMMANDE HYDRAULIQUE COMPRENANT UN CLAPET DE REFOULEMENT**

[72] KNOELLER, MICHAEL C., US
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2017-03-29
[86] 2015-10-08 (PCT/US2015/054638)
[87] (WO2016/057759)
[30] US (62/062,517) 2014-10-10
[30] US (14/877,021) 2015-10-07

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[11] **2,963,539**
[13] C

[51] **Int.Cl. C02F 9/14 (2006.01) C05F 17/90 (2020.01) C02F 1/44 (2006.01) C02F 3/30 (2006.01) C02F 11/02 (2006.01) C02F 11/04 (2006.01) C05F 3/00 (2006.01)**

[25] EN

[54] **PROCESS AND FACILITY FOR THE TREATMENT OF LIVESTOCK WASTE**

[54] **PROCEDE ET INSTALLATION DE TRAITEMENT DE DECHETS D'ELEVAGE DE BETAIL**

[72] LEVIN, GAL, IL

[73] S.G.T.-SUSTAINABLE GREEN TECHNOLOGIES LTD, IL

[85] 2017-04-04

[86] 2016-11-01 (PCT/IL2016/051177)

[87] (WO2017/203505)

[30] IL (245872) 2016-05-26

[11] **2,964,513**
[13] C

[51] **Int.Cl. B61F 5/26 (2006.01) B61F 5/32 (2006.01)**

[25] EN

[54] **BEARING ADAPTER SIDE FRAME INTERFACE FOR A RAILWAY CAR TRUCK**

[54] **INTERFACE DE CADRE LATERAL D'ADAPTEUR DE PALIER DESTINEE A UN BOGIE DE WAGON**

[72] LIN, DAVID YUH-SHYANG, US

[72] HEYDEN, THOMAS J., US

[72] BERG, THOMAS R., US

[72] CLARK, CHRISTOPHER J., US

[72] MCGARVEY, KEVIN P., US

[73] STRATO, INC., US

[85] 2017-04-12

[86] 2015-12-02 (PCT/US2015/063338)

[87] (WO2016/099876)

[30] US (14/577,031) 2014-12-19

[11] **2,964,806**
[13] C

[51] **Int.Cl. H02J 13/00 (2006.01) G06Q 50/06 (2012.01) G01R 21/133 (2006.01)**

[25] EN

[54] **FORECASTING NET LOAD IN A DISTRIBUTED UTILITY GRID**

[54] **PREVISION DE CHARGE NETTE DANS UN RESEAU ELECTRIQUE PUBLIC REPARTI**

[72] ANICHKOV, DMITRIY, US

[72] PAVLOVSKI, ALEXANDRE, US

[73] GREEN POWER LABS INC., CA

[85] 2017-04-13

[86] 2015-10-20 (PCT/US2015/056427)

[87] (WO2016/069330)

[30] US (62/068,750) 2014-10-26

[11] **2,965,104**
[13] C

[51] **Int.Cl. D06M 13/352 (2006.01) A01N 25/34 (2006.01) A01N 43/50 (2006.01) A01P 1/00 (2006.01) A61L 2/16 (2006.01) A62B 18/02 (2006.01) A62B 18/08 (2006.01) B01D 39/08 (2006.01)**

[25] EN

[54] **N-HALAMINE CONTAINING FIBROUS COMPOSITIONS AND USES THEREOF**

[54] **COMPOSITIONS FIBREUSES CONTENANT UNE N-HALAMINE ET UTILISATIONS ASSOCIEES**

[72] WORLEY, SHELBY D., US

[72] BROUGHTON, ROYALL M., US

[72] CERKEZ, IDRIS, TR

[72] DEMIR, BUKET, US

[73] AUBURN UNIVERSITY, US

[85] 2017-04-19

[86] 2015-10-05 (PCT/US2015/053989)

[87] (WO2016/064559)

[30] US (62/066,655) 2014-10-21

[11] **2,966,780**
[13] C

[51] **Int.Cl. G01N 29/11 (2006.01)**

[25] EN

[54] **INTEGRITY TESTING OF STORAGE TANK STRUCTURE USING ROBOTIC ULTRASOUND**

[54] **TEST DE L'INTEGRITE D'UNE STRUCTURE DE RESERVOIRS DE STOCKAGE A L'AIDE D'ULTRASONS ROBOTISES**

[72] WALKER, STEPHEN EDWARD, US

[72] RUBIN, SHELDON, US

[73] SONASEARCH, INC., US

[85] 2017-05-03

[86] 2015-10-28 (PCT/US2015/057675)

[87] (WO2016/073244)

[30] US (62/122,911) 2014-11-03

[11] **2,969,646**
[13] C

[51] **Int.Cl. A61B 5/28 (2021.01) A61B 5/25 (2021.01) A61B 5/291 (2021.01)**

[25] EN

[54] **BIOELECTRODE AND GARMENT**

[54] **BIOELECTRODE ET VETEMENT**

[72] TAKAGAHARA, KAZUHIKO, JP

[72] KAWANO, RYUSUKE, JP

[72] ISHIHARA, TAKAKO, JP

[72] SEYAMA, MICHIKO, JP

[72] KASAHARA, RYOICHI, JP

[72] SATO, YASUHIRO, JP

[72] HORIUCHI, ATSUSHI, JP

[72] SATO, MASANOBU, JP

[72] ISHIKAWA, EMIKO, JP

[72] TAKEDA, KEIJI, JP

[72] NAGAI, NORIKO, JP

[73] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP

[73] TORAY INDUSTRIES, INC., JP

[85] 2017-06-02

[86] 2015-12-07 (PCT/JP2015/084270)

[87] (WO2016/093194)

[30] JP (2014-247860) 2014-12-08

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[13] C

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[54] **GAZE BASED TEXT INPUT SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE SAISIE DE TEXTE FONDEE SUR LE REGARD**
[72] KRISTENSSON, PER OLA, GB
[72] VERTANEN, KEITH, US
[72] MJELDE, MORTEN, NO
[73] TOBII AB, US
[85] 2017-03-02
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[87] (WO2016/036862)
[30] US (62/044,817) 2014-09-02

[11] **2,977,097**
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[25] EN
[54] **OBJECT MOVEMENT CONTROL APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE COMMANDE DE MOUVEMENT D'OBJET**
[72] WRIGHT, KEVIN ANDREW, NZ
[72] MITCHELL, DAVID, NZ
[72] PORTER, TIM, NZ
[72] VAN ASCH, HENRY, NZ
[72] WILSON, GEOFF, NZ
[73] BUNGY NEW ZEALAND LIMITED, NZ
[85] 2017-08-17
[86] 2016-02-19 (PCT/NZ2016/050023)
[87] (WO2016/133408)
[30] NZ (705198) 2015-02-20

[11] **2,977,840**
[13] C

[51] **Int.Cl. B66C 13/12 (2006.01) B60L 5/04 (2006.01) B66C 7/16 (2006.01) B66C 13/50 (2006.01) B66C 17/00 (2006.01)**
[25] EN
[54] **SHOE DERAILMENT DEVICE FOR BRIDGE CRANE AND METHOD OF USE**
[54] **DISPOSITIF DE DERAILEMENT A SABOT POUR PONT ROULANT ET SON PROCEDE D'UTILISATION**
[72] BOUCHARD, STEVE, CA
[72] ST-PIERRE, YAN, CA
[72] BORDELEAU, MARTIN, CA
[73] FIVES SERVICES INC., CA
[85] 2017-08-25
[86] 2015-02-27 (PCT/CA2015/050144)
[87] (WO2016/134444)

[11] **2,977,878**
[13] C

[51] **Int.Cl. B21D 47/00 (2006.01) B21D 53/00 (2006.01) B23K 20/12 (2006.01)**
[25] EN
[54] **STRUCTURAL COMPONENT AND METHOD OF MANUFACTURE**
[54] **COMPOSANT STRUCTUREL ET PROCEDE DE FABRICATION**
[72] HOUSTON, THOMAS SANDY, US
[72] OWENS, JOHN E., US
[72] POLEN, LARRY A., US
[73] CYRIL BATH COMPANY, US
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[87] (2977878)
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[30] US (61/405,914) 2010-10-22

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[25] EN
[54] **NANOPORE-BASED SEQUENCING WITH VARYING VOLTAGE STIMULUS**
[54] **SEQUENCAGE A BASE DE NANOPORE AVEC STIMULUS DE TENSION VARIABLE**
[72] CHEN, ROGER, J.A., US
[72] TIAN, HUI, US
[72] MANEY, BILL, US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2017-06-19
[86] 2015-12-17 (PCT/US2015/066520)
[87] (WO2016/100749)
[30] US (14/577,511) 2014-12-19
[30] US (PCT/US2015/058533) 2015-11-01
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[11] **2,978,720**
[13] C

[51] **Int.Cl. B65G 47/14 (2006.01) B65G 17/30 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR PROCESSING AND/OR INSPECTING PELLET-SHAPED ARTICLES**
[54] **METHODE ET APPAREIL PERMETTANT DE TRAITER ET CONVOYER DES ARTICLES EN FORME DE BILLES**
[72] ACKLEY, E. MICHAEL, JR., US
[72] FORD, MARK, US
[72] PALMER, DANIEL J., US
[73] ACKLEY MACHINE CORPORATION, US
[86] (2978720)
[87] (2978720)
[22] 2007-12-14
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[30] US (60/874,717) 2006-12-14

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[25] EN

[54] **NOVEL HYDROPHILIC LINKERS AND LIGAND-DRUG CONJUGATES THEREOF**

[54] **NOUVEAUX LIEURS HYDROPHILES ET CONJUGUES LIGAND-MEDICAMENT LES COMPRENANT**

[72] SUN, SANXING, CN

[72] ZHAO, ROBERT YONGXIN, CN

[72] LI, XING, CN

[72] GUO, HUIHUI, CN

[72] JIA, JUNXIANG, CN

[72] XIE, HONGSHENG, CN

[72] ZHOU, XIAOMAI, CN

[72] HUANG, YUANYUAN, CN

[72] YANG, QINGLIANG, CN

[72] ZHUO, XIAOTAO, CN

[72] YE, HANGBO, CN

[72] GAI, SHUN, CN

[72] QU, LAN, CN

[72] LI, WENJUN, CN

[72] LIN, CHEN, CN

[73] HANGZHOU DAC BIOTECH CO., LTD, CN

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[13] C

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[25] EN

[54] **ADJUSTABLE LANDING GEAR ASSEMBLY FOR UNMANNED AERIAL VEHICLES**

[54] **ENSEMBLE TRAIN D'ATTERRISSAGE REGLABLE POUR VEHICULES AERIENS SANS PILOTE**

[72] GENTRY, NICHOLAS KRISTOFER, US

[73] AMAZON TECHNOLOGIES, INC., US

[85] 2017-09-06

[86] 2016-03-17 (PCT/US2016/022959)

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[30] US (14/661,955) 2015-03-18

[11] **2,980,105**
[13] C

[51] **Int.Cl. A61M 5/158 (2006.01) A61M 5/142 (2006.01) A61M 5/32 (2006.01) A61M 25/06 (2006.01) A61M 39/02 (2006.01)**

[25] EN

[54] **CARTRIDGE AND INSERTER FOR A MEDICAL SYSTEM**

[54] **CARTOUCHE ET DISPOSITIF D'INTRODUCTION POUR SYSTEME MEDICAL**

[72] DECK, FRANK, DE

[73] F.HOFFMANN-LA ROCHE AG, CH

[85] 2017-09-18

[86] 2016-05-25 (PCT/EP2016/061860)

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[11] **2,981,135**
[13] C

[51] **Int.Cl. A61K 31/70 (2006.01) A61K 31/715 (2006.01) A61P 35/00 (2006.01) C08B 37/00 (2006.01)**

[25] EN

[54] **POTATO POLYSACCHARIDE PREPARATION COMPOSITIONS FOR TREATING CANCER**

[54] **COMPOSITIONS DE LA PREPARATION DE POLYSACCHARIDES DE POMME DE TERRE POUR LE TRAITEMENT DU CANCER**

[72] STEFANO, GEORGE B., US

[72] KREAM, RICHARD M., US

[72] MANTIONE, KIRK J., US

[73] THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, US

[85] 2017-09-27

[86] 2016-03-25 (PCT/US2016/024283)

[87] (WO2016/160590)

[30] US (62/139,163) 2015-03-27

[11] **2,981,242**
[13] C

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[25] EN

[54] **CATALYTIC OXIDATION/REDUCTION COMPOSITIONS AND ARTICLES**

[54] **COMPOSITIONS D'OXYDO-REDUCTION CATALYTIQUE ET ARTICLES**

[72] THATTE, MRUNAL R., US

[72] SOLOVYOV, STANISLAV E., US

[72] POWERS, THOMAS H., US

[73] MULTISORB TECHNOLOGIES, INC., US

[85] 2017-09-28

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[11] **2,981,329**
[13] C

[51] **Int.Cl. C22C 21/06 (2006.01) C22C 21/08 (2006.01) C22C 21/14 (2006.01) C22C 21/16 (2006.01) C22F 1/043 (2006.01) C22F 1/047 (2006.01) C22F 1/05 (2006.01) C22F 1/057 (2006.01)**

[25] EN

[54] **HIGH-STRENGTH 6XXX ALUMINUM ALLOYS AND METHODS OF MAKING THE SAME**

[54] **ALLIAGES D'ALUMINIUM 6XXX HAUTE RESISTANCE ET LEURS PROCEDES DE FABRICATION**

[72] LEYVRAZ, DAVID, CH

[72] DESPOIS, AUDE, CH

[72] WEN, WEI, US

[72] AHMED, HANY, US

[72] KAMAT, RAJEEV G., US

[72] BASSI, CORRADO, CH

[72] FLOREY, GUILLAUME, CH

[72] BEZENCON, CYRILLE, CH

[72] TIMM, JUERGEN, DE

[72] DAS, SAZOL KUMAR, US

[73] NOVELIS INC., US

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[86] 2016-12-16 (PCT/US2016/067194)

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[30] US (62/269,385) 2015-12-18

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[13] C

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[25] EN
[54] **MOISTURE REMOVAL AND CONDENSATION AND HUMIDITY MANAGEMENT APPARATUS FOR A BREATHING CIRCUIT**
[54] **APPAREIL D'ELIMINATION D'HUMIDITE ET DE CONDENSATION ET DE GESTION D'HUMIDITE POUR UN CIRCUIT DE RESPIRATION**
[72] LOREK, JAMES, US
[72] DWYER, DANIEL PATRICK, US
[73] TELEFLEX MEDICAL INCORPORATED, US
[85] 2017-10-12
[86] 2016-04-15 (PCT/US2016/027682)
[87] (WO2016/168548)
[30] US (62/148,077) 2015-04-15

[11] **2,982,744**
[13] C

[51] **Int.Cl. F16H 61/02 (2006.01)**
[25] EN
[54] **DEVICE FOR CONTROLLING STARTING OF ELECTRICALLY DRIVEN VEHICLE**
[54] **DISPOSITIF DESTINE A CONTROLER LE DEMARRAGE D'UN VEHICULE ENTRAINEE ELECTRIQUEMENT**
[72] TSUKIZAKI, ATSUSHI, JP
[72] KOGA, MASATO, JP
[72] FUKUDA, HIROYUKI, JP
[72] TOYOTA, RYOHEY, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2017-10-13
[86] 2015-04-14 (PCT/JP2015/061469)
[87] (WO2016/166814)

[11] **2,983,225**
[13] C

[51] **Int.Cl. A61K 31/497 (2006.01) A61K 31/43 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **ANTIBACTERIAL COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ANTIBACTERIENNES ET METHODES**
[72] PATEL, MAHESH VITHALBHAI, IN
[72] BHAGWAT, SACHIN, IN
[72] TAKALKAR, SWAPNA SHRIPAD, IN
[72] CHAVAN, RAJESH, IN
[72] UMARKAR, KUSHAL, IN
[73] WOCKHARDT LIMITED, IN
[85] 2017-10-18
[86] 2017-03-31 (PCT/IB2017/051873)
[87] (WO2017/168395)
[30] IN (201621011248) 2016-03-31

[11] **2,983,432**
[13] C

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[25] EN
[54] **PRODUCT FOR CLEANING SOIL OR HARD SURFACES AND A METHOD OF USING THE SAME**
[54] **PRODUIT DE NETTOYAGE DE SOL ET DE SURFACES DURES ET SA METHODE D'APPLICATION**
[72] ELAGIN, ANDREY ALEKSANDROVICH, RU
[72] MIRONOV, MAKSIM ANATOLIEVICH, RU
[72] SHULEPOV, ILYA DMITRIEVICH, RU
[73] OBSHESTVO S OGRANICHENNOJ OTVETSTVENNOSTYU "NPO BIOMIKROGELI", RU
[85] 2017-10-19
[86] 2015-12-08 (PCT/RU2015/000855)
[87] (WO2016/178597)
[30] RU (2015117416) 2015-05-07

[11] **2,983,740**
[13] C

[51] **Int.Cl. C12Q 1/6813 (2018.01) C12Q 1/6844 (2018.01) C12Q 1/6876 (2018.01) C12M 1/34 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MULTIPLEX INVASIVE CLEAVAGE ASSAYS**
[54] **ESSAIS DE CLIVAGE INVASIF MULTIPLEXE**
[72] PETERSON, PATRICK L., US
[72] KING, JOE, US
[72] HALL, JEFF, US
[73] GEN-PROBE INCORPORATED, US
[85] 2017-10-23
[86] 2016-05-02 (PCT/US2016/030416)
[87] (WO2016/179093)
[30] US (62/156,043) 2015-05-01

[11] **2,983,935**
[13] C

[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6853 (2018.01) C12Q 1/6876 (2018.01) G16B 30/00 (2019.01)**
[25] EN
[54] **ERROR SUPPRESSION IN SEQUENCED DNA FRAGMENTS USING REDUNDANT READS WITH UNIQUE MOLECULAR INDICES (UMIS)**
[54] **SUPPRESSION D'ERREUR DANS DES FRAGMENTS D'ADN SEQUENCES AU MOYEN DE LECTURES REDONDANTES AVEC DES INDICES MOLECULAIRES UNIQUES (UMI)**
[72] GNERRE, SANTE, US
[72] JUNG, BYOUNGSOK, US
[72] KOSTEM, EMRAH, US
[72] ARAVANIS, ALEX, US
[72] SO, ALEX, US
[72] CAI, XUYU, US
[72] ZHANG, ZHIHONG, US
[72] STEEMERS, FRANK J., US
[73] ILLUMINA, INC., US
[85] 2017-10-25
[86] 2016-04-20 (PCT/US2016/028430)
[87] (WO2016/176091)
[30] US (62/153,699) 2015-04-28
[30] US (62/193,469) 2015-07-16
[30] US (62/269,485) 2015-12-18

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[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61M 5/162 (2006.01) A61B 46/00 (2016.01) A61B 8/00 (2006.01)**
[25] EN
[54] **THREE-DIMENSIONAL GUIDED INJECTION DEVICE AND METHODS**
[54] **DISPOSITIF D'INJECTION A GUIDAGE TRIDIMENSIONNEL ET METHODES ASSOCIEES**
[72] WASIELEWSKI, RAY C., US
[73] JOINTVUE, LLC, US
[86] (2984069)
[87] (2984069)
[22] 2013-02-07
[62] 2,864,045
[30] US (61/595,998) 2012-02-07

[11] **2,984,403**
[13] C

[51] **Int.Cl. G02B 27/09 (2006.01) G01J 3/02 (2006.01)**
[25] EN
[54] **HYBRID IMAGE-PUPIL OPTICAL REFORMATTER**
[54] **DISPOSITIF DE REFORMATAGE OPTIQUE IMAGE-PUPILLE HYBRIDE**
[72] DESROCHES, BRANDON JOSEPH, CA
[72] BEHR, BRADFORD BARTHOLOMEW, US
[72] MEADE, JEFFREY THOMAS, CA
[72] BISMILLA, YUSUF, CA
[72] CENKO, ANDREW T., US
[73] TORNADO SPECTRAL SYSTEMS INC., CA
[85] 2017-07-18
[86] 2016-01-21 (PCT/CA2016/050044)
[87] (WO2016/115631)
[30] US (62/105,928) 2015-01-21

[11] **2,986,822**
[13] C

[51] **Int.Cl. G06Q 20/22 (2012.01)**
[25] EN
[54] **NETWORK TRANSACTION INFORMATION PROCESSING METHOD AND SYSTEM**
[54] **PROCEDE ET SYSTEME DE TRAITEMENT D'INFORMATIONS DE TRANSACTIONS RESEAU**
[72] ZHANG, YI, CN
[73] 10353744 CANADA LTD., CA
[85] 2017-11-22
[86] 2015-04-30 (PCT/CN2015/077965)
[87] (WO2016/172919)

[11] **2,987,512**
[13] C

[51] **Int.Cl. A61M 5/32 (2006.01)**
[25] EN
[54] **SEGMENTED SAFETY COVER FOR NEEDLE DELIVERY**
[54] **SEGMENTE DE SECURITE POUR DELIVRANCE D'AIGUILLE**
[72] WICKMAN, HENRY, NZ
[73] NPA LIMITED, NZ
[86] (2987512)
[87] (2987512)
[22] 2017-12-01
[30] US (15/432,816) 2017-02-14

[11] **2,987,554**
[13] C

[51] **Int.Cl. E02B 7/40 (2006.01) E03F 7/02 (2006.01)**
[25] EN
[54] **OPENING/CLOSING DEVICE**
[54] **DISPOSITIF D'OUVERTURE ET DE FERMETURE**
[72] ITO, MOTONOBU, JP
[72] KIKUCHI, TAMOTSU, JP
[72] AOYAMA, TAKATO, JP
[72] ODATE, TAKAAKI, JP
[72] HASEGAWA, KENJI, JP
[72] IGAWA, OSAMU, JP
[73] NIPPON KOEI CO., LTD., JP
[73] TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION, JP
[73] KANSEI COMPANY, JP
[85] 2017-11-28
[86] 2015-06-18 (PCT/JP2015/067647)
[87] (WO2016/194237)
[30] JP (2015-114450) 2015-06-05

[11] **2,987,892**
[13] C

[51] **Int.Cl. B25H 3/02 (2006.01) B65D 21/02 (2006.01)**
[25] EN
[54] **UTILITY ASSEMBLY AND COUPLING MECHANISM**
[54] **ENSEMBLE DE RANGEMENT ET MECANISME DE RACCORDEMENT**
[72] BRUNNER, YARON, IL
[72] HOPPE, CHRISTOPHER S., US
[72] HYMA, STEVEN W., US
[72] SQUIERS, GRANT T., US
[73] KETER PLASTIC LTD., IL
[73] MILWAUKEE ELECTRIC TOOL CORPORATION, US
[85] 2017-11-30
[86] 2017-04-30 (PCT/IL2017/050481)
[87] (WO2017/191628)
[30] US (62/330,334) 2016-05-02
[30] US (62/459,076) 2017-02-15

[11] **2,988,501**
[13] C

[51] **Int.Cl. F03D 80/00 (2016.01) F03D 13/20 (2016.01) F03D 80/60 (2016.01)**
[25] EN
[54] **WIND TURBINE AND COOLING DEVICE FOR A WIND TURBINE**
[54] **EOLIENNE ET DISPOSITIF DE REFROIDISSEMENT POUR UNE EOLIENNE**
[72] KONITZ, MALTE, DE
[73] WOBLEN PROPERTIES GMBH, DE
[85] 2017-12-06
[86] 2016-06-27 (PCT/EP2016/064802)
[87] (WO2017/001318)
[30] DE (10 2015 212 321.9) 2015-07-01

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[11] **2,988,702**
[13] C

[51] **Int.Cl. A61K 9/06 (2006.01) A61K 31/192 (2006.01) A61K 47/10 (2017.01)**

[25] EN

[54] **NOVEL GEL FOR TOPICAL DELIVERY OF NSAIDS TO PROVIDE RELIEF OF MUSCULOSKELETAL PAIN AND METHODS FOR ITS PREPARATION**

[54] **NOUVEAU GEL POUR ADMINISTRATION TOPIQUE D'AINS DESTINE A APPORTER UN SOULAGEMENT A LA DOULEUR MUSCULO-SQUELETTIQUE, ET SES PROCEDES DE PREPARATION**

[72] BLANCHARD, JAMES, US
[73] BLANCHARD, JAMES, US
[85] 2017-12-07
[86] 2015-06-05 (PCT/US2015/034545)
[87] (WO2015/191402)
[30] US (14/302,164) 2014-06-11

[11] **2,988,757**
[13] C

[51] **Int.Cl. H04L 27/38 (2006.01) H03M 13/11 (2006.01) H03M 13/27 (2006.01) H04L 1/22 (2006.01)**

[25] EN

[54] **BIT INTERLEAVER FOR LOW-DENSITY PARITY CHECK CODEWORD HAVING LENGTH OF 16200 AND CODE RATE OF 2/15 AND 64-SYMBOL MAPPING, AND BIT INTERLEAVING METHOD USING SAME**

[54] **ENTRELACEUR DE BITS POUR MOT CODE A CONTROLE DE PARITE FAIBLE DENSITE AYANT UNE LONGUEUR DE 16200 BITS ET UN TAUX DE CODE DE 2/15 ET UN MAPPAGE A 64 SYMBOLES, ET PROCEDE A ENTRELACEMENT DE BITS UTILISANT CELUI-CI**

[72] PARK, SUNG-IK, KR
[72] KWON, SUN-HYOUNG, KR
[72] LIM, BO-MI, KR
[72] LEE, JAE-YOUNG, KR
[72] KIM, HEUNG-MOOK, KR
[72] HUR, NAM-HO, KR
[73] ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, KR
[86] (2988757)
[87] (2988757)
[22] 2015-05-21
[62] 2,892,100
[30] KR (10-2015-0012877) 2015-01-27

[11] **2,989,209**
[13] C

[51] **Int.Cl. G06F 3/0484 (2013.01)**

[25] EN

[54] **METHOD FOR CONTROLLING INTERACTION WITH VIRTUAL TARGET, TERMINAL, AND STORAGE MEDIUM**

[54] **PROCEDE PERMETTANT DE COMMANDER UNE INTERACTION AVEC UNE CIBLE VIRTUELLE, TERMINAL ET SUPPORT DE STOCKAGE**

[72] TANG, YONG, CN
[72] LIAO, CHANGYAN, CN
[73] TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED, CN
[85] 2017-12-12
[86] 2016-05-10 (PCT/CN2016/081484)
[87] (WO2016/202119)
[30] CN (201510332892.X) 2015-06-16

[11] **2,989,255**
[13] C

[51] **Int.Cl. H04W 76/14 (2018.01)**

[25] EN

[54] **ELECTRONIC ACCESS CONTROL APPLYING AN INTERMEDIATE**

[54] **CONTROLE D'ACCES ELECTRONIQUE APPLIQUANT UN INTERMEDIAIRE**

[72] PLUSS, MARCEL, CH
[72] PLUSS, PETER, CH
[72] WURTH, MICHAEL, CH
[73] LEGIC IDENTSYSTEMS AG, CH
[85] 2017-12-12
[86] 2016-06-23 (PCT/EP2016/064570)
[87] (WO2017/012819)
[30] CH (1078/15) 2015-07-23

[11] **2,989,887**
[13] C

[51] **Int.Cl. H02G 9/00 (2006.01) H04W 88/08 (2009.01) H02G 3/04 (2006.01)**

[25] EN

[54] **RODENT RESISTANT GROUND LEVEL ICE BRIDGE**

[54] **PONT DE GLACE AU NIVEAU DU SOL RESISTANT AUX RONGEURS**

[72] POWELL, MIKE, CA
[73] BCE INC., CA
[86] (2989887)
[87] (2989887)
[22] 2017-12-21
[30] US (62/440,046) 2016-12-29

[11] **2,992,383**
[13] C

[51] **Int.Cl. D21H 27/30 (2006.01) B32B 29/00 (2006.01) B32B 29/08 (2006.01) D21C 5/02 (2006.01) D21F 11/04 (2006.01) D21H 11/12 (2006.01) D21H 19/00 (2006.01) D21H 27/38 (2006.01)**

[25] EN

[54] **MULTI-LAYER CARDBOARD MATERIAL COMPRISING COCO PEAT, AND METHOD FOR PRODUCING**

[54] **MATERIAU DE CARTON MULTICOUCHE RENFERMANT DE LA MOUSSE DE COCO, ET METHODE DE PRODUCTION**

[72] ZISCHKA, MICHAEL, AT
[72] MAGIN, MATHIAS, DE
[73] MAYR-MELNHOF KARTON AG, AT
[85] 2018-01-12
[86] 2016-07-15 (PCT/EP2016/066902)
[87] (WO2017/013015)
[30] EP (15177486.6) 2015-07-20

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[11] **2,992,875**
[13] C

[51] **Int.Cl. A61L 2/14 (2006.01) B01D 53/32 (2006.01)**
[25] EN
[54] **PLASMA AIR PURIFIER**
[54] **PURIFICATEUR D'AIR A PLASMA**
[72] DURFEE, EILEEN LOUISE, US
[73] CREATRIX SOLUTIONS LLC, US
[85] 2018-01-17
[86] 2015-07-23 (PCT/US2015/041644)
[87] (WO2017/014780)
[30] US (62/193,887) 2015-07-17

[11] **2,994,771**
[13] C

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 38/17 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL PEPTIDES AND COMBINATION OF PEPTIDES FOR USE IN IMMUNOTHERAPY AGAINST PROSTATE CANCER AND OTHER CANCERS**
[54] **NOUVEAUX PEPTIDES ET COMBINAISON DE PEPTIDES A UTILISER EN IMMUNOTHERAPIE CONTRE LE CANCER DE LA PROSTATE ET D'AUTRES CANCERS**
[72] MAHR, ANDREA, DE
[72] WEINSCHENK, TONI, DE
[72] SCHOOR, OLIVER, DE
[72] FRITSCH, JENS, DE
[72] SINGH, HARPREET, DE
[72] MULLER, PHILLIP, DE
[72] LEIBOLD, JULIA, AT
[72] GOLDFINGER, VALENTINA, DE
[73] IMMATICS BIOTECHNOLOGIES GMBH, DE
[85] 2018-02-05
[86] 2016-08-05 (PCT/EP2016/068727)
[87] (WO2017/021527)
[30] US (62/201,289) 2015-08-05
[30] GB (1513921.5) 2015-08-06

[11] **2,994,954**
[13] C

[51] **Int.Cl. B65G 53/40 (2006.01) B65G 53/04 (2006.01) B65G 53/52 (2006.01)**
[25] EN
[54] **FREE FLOW COLLAR FOR CONTROL VALVES**
[54] **COLLIER D'ECOULEMENT LIBRE POUR SOUPAPES DE COMMANDE**
[72] PLATUSICH, BRUCE M., US
[73] RED VALVE COMPANY, INC., US
[85] 2018-02-06
[86] 2016-08-05 (PCT/US2016/045712)
[87] (WO2017/027349)
[30] US (62/202,328) 2015-08-07

[11] **2,995,018**
[13] C

[51] **Int.Cl. A61K 31/4995 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY WITH AN ANTITUMOR ALKALOID PLURITHERAPIE AVEC UN ALCALOIDE ANTITUMORAL**
[72] MONEO OCANA, VICTORIA, ES
[72] SANTAMARIA NUNEZ, GEMA, ES
[72] GARCIA FERNANDEZ, LUIS FRANCISCO, ES
[72] GALMARINI, CARLOS MARIA, ES
[72] GUILLEN NAVARRO, MARIA JOSE, ES
[72] AVILES MARIN, PABLO MANUEL, ES
[73] PHARMA MAR, S.A., ES
[86] (2995018)
[87] (2995018)
[22] 2011-11-11
[62] 2,817,420
[30] EP (10382300.1) 2010-11-12

[11] **2,995,335**
[13] C

[51] **Int.Cl. F02B 47/02 (2006.01) F01B 1/06 (2006.01)**
[25] EN
[54] **INTERNAL COMBUSTION ENGINE/GENERATOR WITH PRESSURE BOOST**
[54] **MOTEUR A COMBUSTION INTERNE/GENERATEUR A SURPRESSION**
[72] RUSSELL, ROBERT L., US
[73] RUSSELL ENERGY CORPORATION, US
[85] 2018-02-09
[86] 2016-05-23 (PCT/US2016/033701)
[87] (WO2017/003578)
[30] US (14/754,060) 2015-06-29

[11] **2,996,100**
[13] C

[51] **Int.Cl. F02D 29/02 (2006.01) F02M 37/08 (2006.01) F02M 37/18 (2006.01)**
[25] EN
[54] **VEHICLE TRAVELING CONTROL METHOD AND VEHICLE TRAVELING CONTROL DEVICE**
[54] **PROCEDE DE COMMANDE DE DEPLACEMENT DE VEHICULE ET DISPOSITIF DE COMMANDE DE DEPLACEMENT DE VEHICULE**
[72] KOIKE, TOMOYUKI, JP
[72] WATANABE, MUNEMITSU, JP
[72] KOISHI, AKIFUMI, JP
[72] TSUCHIYA, TERUMASA, JP
[72] TAHARA, MASAHICO, JP
[72] TEZUKA, ATSUSHI, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2018-02-20
[86] 2015-08-20 (PCT/JP2015/004183)
[87] (WO2017/029693)

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[11] **2,997,583**
[13] C

[51] **Int.Cl. G06F 21/57 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR
DETECTING AND PREVENTING
SPOOFING**
[54] **SYSTEMES ET PROCEDES
PERMETTANT DE DETECTER ET
D'EMPECHER L'USURPATION**
[72] RICHARDSON, GARY WAYNE, CA
[72] BAILEY, CHRISTOPHER EVERETT,
CA
[72] LUKASHUK, RANDY, CA
[73] MASTERCARD TECHNOLOGIES
CANADA ULC, CA
[85] 2018-03-05
[86] 2016-09-04 (PCT/IB2016/001413)
[87] (WO2017/037542)
[30] US (62/214,969) 2015-09-05

[11] **2,997,698**
[13] C

[51] **Int.Cl. C07K 14/33 (2006.01) B01D
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C07K 1/18 (2006.01) C07K 1/30
(2006.01) C07K 1/34 (2006.01) C07K
1/36 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING
BOTULINUM TOXIN**
[54] **PROCEDE DE PRODUCTION DE
TOXINE BOTULINIQUE**
[72] KIM, KYOUNG-YUN, KR
[72] KIM, CHUNG SEI, KR
[72] KIM, MYUNG SEOB, KR
[72] SUL, HYE-YOUNG, KR
[73] DAEWOONG CO., LTD., KR
[85] 2018-03-06
[86] 2016-11-23 (PCT/KR2016/013506)
[87] (WO2017/095062)
[30] KR (10-2015-0168196) 2015-11-30

[11] **2,998,044**
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01) G10L
21/038 (2013.01)**
[25] EN
[54] **AUDIO PROCESSOR AND
METHOD FOR PROCESSING AN
AUDIO SIGNAL USING
HORIZONTAL PHASE
CORRECTION**
[54] **PROCESSEUR AUDIO ET
PROCEDE DE TRAITEMENT
D'UN SIGNAL AUDIO AU MOYEN
D'UNE CORRECTION DE PHASE
HORIZONTALE**
[72] DISCH, SASCHA, DE
[72] LAITINEN, MIKKO-VILLE, FI
[72] PULKKI, VILLE, FI
[73] FRAUNHOFER-GESELLSCHAFT
ZUR FOERDERUNG DER
ANGEWANDTEN FORSCHUNG
E.V., DE
[86] (2998044)
[87] (2998044)
[22] 2015-06-25
[62] 2,953,421
[30] EP (14175202.2) 2014-07-01
[30] EP (15151478.3) 2015-01-16

[11] **2,998,312**
[13] C

[51] **Int.Cl. C07K 14/245 (2006.01) C12N
9/04 (2006.01) C12N 9/10 (2006.01)
C12N 9/16 (2006.01) C12N 15/70
(2006.01) C12P 13/12 (2006.01)**
[25] EN
[54] **NOVEL VARIANT OF O-
PHOSPHOSERINE EXPORTER
AND METHOD OF PRODUCING
O-PHOSPHOSERINE, CYSTEINE,
AND ITS DERIVATIVES USING
THE SAME**
[54] **VARIANT NOVATEUR
D'EXPORTATEUR O-
PHOSPHOSERINE ET METHODE
DE PRODUCTION D'O-
PHOSPHOSERINE, DE CYSTEINE,
ET SES DERIVES EMPLOYANT
LEDIT VARIANT**
[72] KIM, SOL, KR
[72] KANG, MIN GYEONG, KR
[72] YOO, IN HWA, KR
[72] KIM, JONG HYUN, KR
[72] KIM, HYE WON, KR
[73] CJ CHEILJEDANG CORPORATION,
KR
[85] 2018-03-09
[86] 2016-09-09 (PCT/KR2016/010168)
[87] (WO2017/043915)
[30] KR (10-2015-0129127) 2015-09-11

[11] **2,998,435**
[13] C

[51] **Int.Cl. B27B 33/00 (2006.01)**
[25] EN
[54] **PULLEY SYSTEM FOR
TRANSFERRING MOTOR
TORQUE TO A CUTTING BLADE
ASSEMBLY**
[54] **SYSTEME DE POULIE SERVANT
A TRANSFERER LE COUPLE
MOTEUR A UN MECANISME DE
LAME DE COUPE**
[72] COTE, SYLVAIN, CA
[73] COTE, SYLVAIN, CA
[86] (2998435)
[87] (2998435)
[22] 2018-03-19

[11] **2,999,472**
[13] C

[51] **Int.Cl. B24D 15/04 (2006.01) C08J
5/14 (2006.01) C08J 9/10 (2006.01)
C08L 23/06 (2006.01) C08L 23/08
(2006.01) C09K 3/14 (2006.01)**
[25] EN
[54] **HAND-HELD CONFORMABLE
SANDING BLOCK**
[54] **BLOC DE PONCAGE
CONFORMABLE PORTATIF**
[72] LIN, BANG FANG, CN
[73] TRADE ASSOCIATES, INC., US
[86] (2999472)
[87] (2999472)
[22] 2013-10-02
[62] 2,885,629
[30] US (61/709,048) 2012-10-02
[30] US (14/044,567) 2013-10-02

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[11] **2,999,754**
[13] C

[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/32 (2012.01) G06F 21/31 (2013.01) H04M 11/00 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR FRAUD DETECTION USING A MOBILE COMMUNICATION DEVICE**

[54] **PROCEDE ET SYSTEME DE DETECTION DE FRAUDE A L'AIDE D'UN DISPOSITIF DE COMMUNICATION MOBILE**

[72] SIDHU, NAVJOT, US

[72] HIVELY, COREY, US

[72] DHALA, AMYN, US

[73] MASTERCARD INTERNATIONAL INCORPORATED, US

[85] 2018-03-22

[86] 2016-09-14 (PCT/US2016/051605)

[87] (WO2017/053140)

[30] US (14/862,617) 2015-09-23

[11] **3,000,094**
[13] C

[51] **Int.Cl. C09D 191/06 (2006.01)**

[25] EN

[54] **PLASTIC WATER REPELLENT FORMULATION**

[54] **FORMULATION DE MATIERE PLASTIQUE HYDROFUGE**

[72] PHANG, TZE LEE, US

[72] BAJRAMI, EGEST, US

[73] ILLINOIS TOOL WORKS INC., US

[85] 2018-03-22

[86] 2016-10-07 (PCT/US2016/056034)

[87] (WO2017/066097)

[30] US (14/882,150) 2015-10-13

[11] **3,001,767**
[13] C

[51] **Int.Cl. C10G 29/24 (2006.01) C10G 21/06 (2006.01)**

[25] EN

[54] **A PROCESS FOR REMOVING SULPHUR COMPOUNDS FROM PROCESS STREAMS**

[54] **PROCEDE POUR ELIMINER DES COMPOSES SOUFRES PRESENTS DANS DES FLUX DE TRAITEMENT**

[72] TAARNING, ESBEN, DK

[72] OSMUNDSEN, CHRISTIAN MARUP, DK

[73] HALDOR TOPSOE A/S, DK

[85] 2018-04-12

[86] 2016-10-14 (PCT/EP2016/074745)

[87] (WO2017/064267)

[30] DK (PA 2015 00633) 2015-10-14

[11] **3,003,215**
[13] C

[51] **Int.Cl. A61M 5/00 (2006.01) A61M 5/14 (2006.01) A61L 2/04 (2006.01) A61L 2/08 (2006.01) A61L 2/20 (2006.01)**

[25] EN

[54] **A METHOD FOR AN ASEPTIC ASSEMBLY OF A MULTI-COMPONENT MEDICAL DEVICE AND A KIT THEREFOR**

[54] **PROCEDE POUR L'ASSEMBLAGE ASEPTIQUE D'UN DISPOSITIF MEDICAL A ELEMENTS MULTIPLES ET KIT ASSOCIE**

[72] HARTTIG, HERBERT, DE

[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2018-04-25

[86] 2016-11-17 (PCT/EP2016/078082)

[87] (WO2017/085231)

[30] EP (15195346.0) 2015-11-19

[11] **3,003,733**
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/51 (2006.01)**

[25] EN

[54] **MUCUS PENETRATING PARTICLES WITH HIGH MOLECULAR WEIGHT AND DENSE COATINGS**

[54] **PARTICULES A POIDS MOLECULAIRE ELEVE PENETRANT DANS LE MUCUS ET REVETEMENTS DENSES**

[72] HANES, JUSTIN, US

[72] MAISEL, KATHARINA, US

[72] ENSIGN, LAURA M., US

[72] CONE, RICHARD, US

[73] THE JOHNS HOPKINS UNIVERSITY, US

[85] 2018-04-30

[86] 2016-10-31 (PCT/US2016/059661)

[87] (WO2017/075565)

[30] US (62/248,432) 2015-10-30

[11] **3,005,180**
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) G01R 33/44 (2006.01) G01V 3/14 (2006.01)**

[25] EN

[54] **MULTIPLE DEPTH OF INVESTIGATION NUCLEAR MAGNETIC RESONANCE LOGGING FOR DETERMINING THE POROSITY AND PORE TYPE OF SUBTERRANEAN FORMATIONS**

[54] **DIAGRAPHIE PAR RESONANCE MAGNETIQUE NUCLEAIRE A DE MULTIPLES PROFONDEURS D'ETUDE EN VUE LA DETERMINATION DE LA POROSITE ET DU TYPE DE PORES DE FORMATIONS SOUTERRAINES**

[72] CHEN, SONGHUA, US

[72] JACHMANN, REBECCA CORINA, US

[72] REIDERMAN, ARCADY, US

[73] HALLIBURTON ENERGY SERVICES, INC., US

[85] 2018-05-11

[86] 2016-03-04 (PCT/US2016/020804)

[87] (WO2017/151140)

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[11] **3,005,223**
[13] C

[51] **Int.Cl. C04B 28/00 (2006.01) C04B 20/10 (2006.01) C04B 28/26 (2006.01) C04B 38/02 (2006.01) C09K 8/473 (2006.01) C09K 8/502 (2006.01) C09K 8/504 (2006.01) C09K 8/516 (2006.01)**

[25] EN

[54] **SELF-PRESSURIZING SOLUBLE ALKALI SILICATE FOR USE IN SEALING SUBTERRANEAN SPACES**

[54] **SILICATE ALCALIN SOLUBLE A AUTOPRESSURISATION POUR UNE UTILISATION DANS L'IMPERMEABILISATION D'ESPACES SOUTERRAINS**

[72] MCDONALD, MICHAEL JAMES, CA

[72] LI, XIANGLIAN, CA

[72] CRAMER, BRETT HOWARD, US

[72] SHORT, KELLY PAUL, JR., US

[73] PQ CORPORATION, US

[73] BYK USA INC., US

[85] 2018-05-11

[86] 2016-11-11 (PCT/US2016/061518)

[87] (WO2017/083639)

[30] US (62/253,834) 2015-11-11

[30] US (15/348,491) 2016-11-10

[11] **3,006,730**
[13] C

[51] **Int.Cl. C10G 29/02 (2006.01) C10G 75/04 (2006.01)**

[25] EN

[54] **ARCHITECTURED MATERIALS AS ADDITIVES TO REDUCE OR INHIBIT SOLID FORMATION AND SCALE DEPOSITION AND IMPROVE HYDROGEN SULFIDE SCAVENGING**

[54] **MATERIAUX ARCHITECTURAUX COMME ADDITIFS VISANT A REDUIRE OU EMPECHER LA FORMATION DE SOLIDE ET LE DEPOT DE CALCAIRE ET AMELIORER LE RAVAGE DE SULFURE D'HYDROGENE**

[72] FELIPE, MARY JANE LEGASPI, US

[72] PONNAPATI, RAMAKRISHNA, US

[73] BAKER HUGHES, A GE COMPANY, LLC, US

[86] (3006730)

[87] (3006730)

[22] 2018-05-30

[30] US (62/514538) 2017-06-02

[11] **3,007,422**
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/04 (2006.01) A61B 17/56 (2006.01)**

[25] EN

[54] **KNOTLESS SUTURE ANCHOR AND DEPLOYMENT DEVICE**

[54] **ANCORAGE DE SUTURE SANS NOEUD ET DISPOSITIF DE DEPLOIEMENT**

[72] LOMBARDO, GIUSEPPE, US

[73] CONMED CORPORATION, US

[85] 2018-06-04

[86] 2016-12-16 (PCT/US2016/067114)

[87] (WO2017/106608)

[30] US (62/268,028) 2015-12-16

[11] **3,008,609**
[13] C

[51] **Int.Cl. G06Q 50/26 (2012.01) H04M 3/493 (2006.01) H04M 3/51 (2006.01)**

[25] EN

[54] **LOCATOR DIAGNOSTIC FOR EMERGENCY DISPATCH**

[54] **DIAGNOSTIC DE LOCALISATEUR POUR UNE REPARTITION D'URGENCE**

[72] CLAWSON, JEFFREY J., US

[73] CLAWSON, JEFFREY J., US

[85] 2018-06-14

[86] 2016-12-02 (PCT/US2016/064719)

[87] (WO2017/112392)

[30] US (14/757,797) 2015-12-23

[11] **3,011,670**
[13] C

[51] **Int.Cl. E06B 3/673 (2006.01) B32B 3/08 (2006.01) E04C 2/54 (2006.01)**

[25] EN

[54] **MANUFACTURE OF COMPOSITE LIGHT DIFFUSING GLASS PANELS**

[54] **FABRICATION DE PANNEAUX DIFFUSEURS DE LUMIERE EN VERRE COMPOSITE**

[72] MILBURN, DOUGLAS I., CA

[72] MACMILLAN, ALLAN GORDON ARCHIE, CA

[73] ADVANCED GLAZING TECHNOLOGIES LTD. (AGTL), CA

[86] (3011670)

[87] (3011670)

[22] 2010-09-10

[62] 2,714,707

[30] US (12/877,391) 2010-09-08

[11] **3,012,813**
[13] C

[51] **Int.Cl. A61B 34/10 (2016.01) A61B 8/00 (2006.01) A61B 8/08 (2006.01)**

[25] EN

[54] **SYSTEM FOR 3D RECONSTRUCTION OF A JOINT USING ULTRASOUND**

[54] **SYSTEME POUR RECONSTRUCTION TRIDIMENSIONNELLE (3D) D'UNE ARTICULATION UTILISANT D'ULTRASONS**

[72] MAHFOUZ, MOHAMED R., US

[72] WASIELEWSKI, RAY C., US

[73] JOINTVUE, LLC, US

[86] (3012813)

[87] (3012813)

[22] 2014-02-04

[62] 2,900,264

[30] US (13/758,151) 2013-02-04

[11] **3,013,194**
[13] C

[51] **Int.Cl. E04G 23/02 (2006.01) E02D 5/64 (2006.01) E04C 5/00 (2006.01)**

[25] EN

[54] **AXIAL REINFORCEMENT SYSTEM FOR RESTORATIVE SHELL**

[54] **SYSTEME DE RENFORT AXIAL POUR COQUE DE RESTAURATION**

[72] KRIEGSTEIN, STEWART, US

[73] WARSTONE INNOVATIONS, LLC, US

[85] 2018-07-30

[86] 2017-01-17 (PCT/US2017/013686)

[87] (WO2017/136130)

[30] US (62/289,718) 2016-02-01

[11] **3,013,213**
[13] C

[51] **Int.Cl. B05B 1/20 (2006.01) B05B 1/16 (2006.01) A01K 13/00 (2006.01) A61D 11/00 (2006.01)**

[25] EN

[54] **HANDHELD PET SPRAY WAND**

[54] **LANCE DE PULVERISATION PORTATIVE POUR ANIMAUX DOMESTIQUES**

[72] THURGOOD, JEFFREY, US

[73] WATER PIK, INC., US

[85] 2018-07-30

[86] 2017-02-01 (PCT/US2017/016105)

[87] (WO2017/136484)

[30] US (62/289,855) 2016-02-01

[30] US (62/289,833) 2016-02-01

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[11] **3,014,468**
[13] C

[51] **Int.Cl. F16B 12/16 (2006.01) F16B 5/02 (2006.01) F16B 5/06 (2006.01)**
[25] EN
[54] **CONNECTING DEVICE AND METHOD FOR CONNECTING TWO COMPONENTS**
[54] **DISPOSITIF DE RACCORDEMENT ET PROCEDE POUR RACCORDER DEUX COMPOSANTS**
[72] BAUR, FRANZ, DE
[72] JEKER, PATRICK, CH
[72] SEILER, PHILIPP, CH
[72] HASER, FRANZ JOSEF, DE
[73] BAUR, FRANZ, DE
[73] LAMELLO AG, CH
[73] HASER, FRANZ JOSEF, DE
[85] 2018-08-14
[86] 2016-12-14 (PCT/EP2016/081079)
[87] (WO2017/140399)
[30] DE (10 2016 202 450.7) 2016-02-17

[11] **3,014,777**
[13] C

[51] **Int.Cl. A61M 5/20 (2006.01)**
[25] EN
[54] **MEDICATION INJECTION DEVICE WITH AUTOMATIC NEEDLE RETRACTION FOLLOWING INJECTION**
[54] **DISPOSITIF D'INJECTION DE MEDICAMENT AVEC RETRAIT AUTOMATIQUE DE L'AIGUILLE APRES INJECTION**
[72] GONZALEZ, NICOLE TAYLOR, US
[72] MUSSELMAN, GREGORY ALAN, US
[72] NELSON, LISA JEANNE, US
[72] WANG, DANIEL ENLUO, US
[73] ELI LILLY AND COMPANY, US
[85] 2018-08-15
[86] 2017-03-10 (PCT/US2017/021761)
[87] (WO2017/160625)
[30] US (62/308,997) 2016-03-16

[11] **3,015,754**
[13] C

[51] **Int.Cl. H03K 3/02 (2006.01) H03K 3/00 (2006.01) H03K 5/00 (2006.01) H03K 5/01 (2006.01) H03K 5/12 (2006.01)**
[25] EN
[54] **HIGH-VOLTAGE ANALOG CIRCUIT PULSER AND PULSE GENERATOR DISCHARGE CIRCUIT**
[54] **PULSEUR DE CIRCUIT ANALOGIQUE HAUTE TENSION ET CIRCUIT DE DECHARGE DE GENERATEUR D'IMPULSIONS**
[72] ATHOS, BRIAN G., US
[72] UECKER, DARRIN R., US
[72] XIAO, SHU, US
[73] PULSE BIOSCIENCES, INC., US
[85] 2018-08-24
[86] 2017-01-31 (PCT/US2017/015881)
[87] (WO2017/151260)
[30] US (62/301,477) 2016-02-29
[30] US (15/347,729) 2016-11-09

[11] **3,014,489**
[13] C

[51] **Int.Cl. C22B 3/44 (2006.01) C22B 34/22 (2006.01)**
[25] EN
[54] **PROCESS FOR THE SEPARATION OF VANADIUM**
[54] **PROCEDE DE SEPARATION DU VANADIUM**
[72] NOWAK, BENEDIKT, AT
[72] WEISSENBAECK, HERBERT, AT
[73] SMS GROUP PROCESS TECHNOLOGIES GMBH, AT
[85] 2018-08-14
[86] 2017-02-28 (PCT/EP2017/054608)
[87] (WO2017/148922)
[30] EP (16158032.9) 2016-03-01

[11] **3,014,815**
[13] C

[51] **Int.Cl. F24H 1/00 (2006.01) F24H 1/06 (2006.01) F24H 1/52 (2006.01)**
[25] EN
[54] **TANKLESS WATER HEATERS AND RELATED METHODS FOR RECREATIONAL VEHICLES**
[54] **CHAUFFE-EAUX INSTANTANES ET PROCEDES ASSOCIES, DESTINES A DES VEHICULES RECREATIFS**
[72] CONSADORI, FRANCESCO, US
[72] RENNERT, JERRY, US
[72] FERNANDEZ, ADRIAN, US
[72] SOLIS MARQUEZ, OSCAR, US
[73] GIRARD PRODUCTS, LLC, US
[85] 2018-08-15
[86] 2017-02-17 (PCT/US2017/018493)
[87] (WO2017/143275)
[30] US (62/297,731) 2016-02-19

[11] **3,016,732**
[13] C

[51] **Int.Cl. H02K 1/27 (2006.01) H02K 15/03 (2006.01)**
[25] EN
[54] **ROTOR ASSEMBLY AND METHOD OF MANUFACTURING**
[54] **ENSEMBLE ROTOR ET PROCEDE DE FABRICATION**
[72] CREEDON, WILLIAM P., US
[72] SANTAMARIA, GEORGE T., US
[72] WICK, JOHN CHARLES HIRSCHY, US
[73] GENERAL ATOMICS, US
[85] 2018-09-06
[86] 2016-09-26 (PCT/US2016/053706)
[87] (WO2017/160342)
[30] US (15/070,833) 2016-03-15

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[11] **3,017,655**
[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/903 (2019.01)**

[25] EN

[54] **TECHNIQUES FOR CORRECTING LINGUISTIC TRAINING BIAS IN TRAINING DATA**

[54] **TECHNIQUES DE CORRECTION ORIENTEE PAR L'APPRENTISSAGE LINGUISTIQUE DANS LES DONNEES D'APPRENTISSAGE**

[72] AGARWAL, PUNEET, IN

[72] PATIDAR, MAYUR, IN

[72] VIG, LOVEKESH, IN

[72] SHROFF, GAUTAM, IN

[73] TATA CONSULTANCY SERVICES LIMITED, IN

[86] (3017655)

[87] (3017655)

[22] 2018-09-18

[30] IN (201721033035) 2017-09-18

[11] **3,017,804**
[13] C

[51] **Int.Cl. B22F 5/00 (2006.01) F42B 5/02 (2006.01) F42B 12/36 (2006.01) F42B 33/00 (2006.01)**

[25] EN

[54] **FRANGIBLE FIREARM PROJECTILES, METHODS FOR FORMING THE SAME, AND FIREARM CARTRIDGES CONTAINING THE SAME**

[54] **PROJECTILES FRIABLES POUR ARMES A FEU, LEURS PROCEDES DE FORMATION ET CARTOUCHES D'ARMES A FEU LES CONTENANT**

[72] MORSE, JOSEPH FRANKLIN, US

[72] NAUMAN, RALPH, US

[72] NICHOLS, ROBERT CHARLES, US

[73] ENVIRON-METAL, INC., US

[85] 2018-09-13

[86] 2017-03-20 (PCT/US2017/023146)

[87] (WO2017/213727)

[30] US (62/310,489) 2016-03-18

[30] US (62/407,879) 2016-10-13

[30] US (15/461,848) 2017-03-17

[11] **3,018,063**
[13] C

[51] **Int.Cl. E05C 17/20 (2006.01) E05B 81/20 (2014.01) E05F 15/611 (2015.01)**

[25] EN

[54] **DOOR PRESENTING SYSTEM AND METHOD OF OPERATING SAME**

[54] **SYSTEME DE PRESENTATION DE PORTE ET SON PROCEDE DE COMMANDE**

[72] WORDEN, SCOTT D., CA

[72] SUBRAMANIAM, JEYAKUMAR, CA

[72] DANIELS, ANDREW R., CA

[72] DOMINIK, TOMASZ T., CA

[72] LINDEN, HOWARD PAUL TSVI, US

[73] MULTIMATIC INC., CA

[85] 2018-09-17

[86] 2017-03-14 (PCT/US2017/022231)

[87] (WO2017/160787)

[30] US (62/308,420) 2016-03-15

[11] **3,018,261**
[13] C

[51] **Int.Cl. B66F 11/04 (2006.01) B66C 1/40 (2006.01) B66C 13/16 (2006.01) B66C 15/06 (2006.01) B66C 23/66 (2006.01) B66F 17/00 (2006.01)**

[25] EN

[54] **PLATFORM LOAD SENSING SYSTEM**

[54] **SYSTEME DE DETECTION DE CHARGE DE PLATEFORME**

[72] MESSENGER, JOHN E., US

[72] ADDLEMAN, JEFFREY LYNN, US

[72] WALTZ, TIMOTHY MARK, US

[72] YOUNG, TROY, US

[73] JLG INDUSTRIES, INC., US

[85] 2018-09-18

[86] 2017-04-10 (PCT/US2017/026761)

[87] (WO2017/177219)

[30] US (62/320,033) 2016-04-08

[11] **3,018,599**
[13] C

[51] **Int.Cl. C07D 495/04 (2006.01) A61K 31/519 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **POLYMORPH OF DPPIV INHIBITOR MALEATE AND PREPARATION METHOD THEREFOR**

[54] **POLYMORPHE DU MALEATE INHIBITEUR DE DPPIV ET SON PROCEDE DE PREPARATION**

[72] LIU, HONG, CN

[72] WANG, JIANG, CN

[72] LI, JIAN, CN

[72] LI, JIA, CN

[72] LI, JINGYA, CN

[72] JIANG, HUALIANG, CN

[72] LUO, XIAOMIN, CN

[72] CHEN, KAIXIAN, CN

[73] SHANGHAI INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF SCIENCES, CN

[85] 2018-09-21

[86] 2017-03-20 (PCT/CN2017/077278)

[87] (WO2017/162116)

[30] CN (201610165572.4) 2016-03-22

[11] **3,018,732**
[13] C

[51] **Int.Cl. A61M 5/315 (2006.01)**

[25] EN

[54] **DETERMINATION OF A DOSE SET AND DELIVERED IN A MEDICATION DELIVERY DEVICE**

[54] **DETERMINATION D'UN ENSEMBLE DE DOSES ET DE DOSES DISTRIBUEES DANS UN DISPOSITIF D'ADMINISTRATION DE MEDICAMENT**

[72] BYERLY, ROY H., US

[73] ELI LILLY AND COMPANY, US

[85] 2018-09-21

[86] 2017-03-17 (PCT/US2017/022869)

[87] (WO2017/165207)

[30] US (62/313,260) 2016-03-25

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[11] **3,018,830**
[13] C

[51] **Int.Cl. H05K 5/06 (2006.01) H01Q 1/38 (2006.01) H01Q 1/40 (2006.01)**
[25] EN
[54] **FOIL LAMINATE FOR HERMETIC ENCLOSURES**
[54] **LAMELLE METALLIQUE DESTINE A DES ENCEINTES HERMETIQUES**
[72] SHOWCATALLY, SHAWN, US
[73] ITRON, INC., US
[86] (3018830)
[87] (3018830)
[22] 2018-09-26
[30] US (15/721,304) 2017-09-29

[11] **3,022,450**
[13] C

[51] **Int.Cl. B65G 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR CONSTRUCTING A CARTON FLOW BED RACK AND CARTON FLOW BED RACK**
[54] **PROCEDE DE CONSTRUCTION D'UN RAYONNAGE DYNAMIQUE POUR PETITES CHARGES ET RAYONNAGE DYNAMIQUE POUR PETITES CHARGES**
[72] LAPLACE, JEAN MICHEL, FR
[73] INTERROLL HOLDING AG, CH
[85] 2018-10-26
[86] 2017-06-29 (PCT/EP2017/000776)
[87] (WO2018/001563)
[30] EP (16290127.6) 2016-07-01

[11] **3,023,005**
[13] C

[51] **Int.Cl. A61M 5/24 (2006.01) A61B 17/34 (2006.01) A61M 5/145 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD TO INJECT FLUIDS INTO BONE MARROW AND OTHER TARGET SITES**
[54] **APPAREIL ET METHODE D'INJECTION DE FLUIDES DANS LA MOELLE OSSEUSE ET AUTRE SITE CIBLE**
[72] MILLER, LARRY J., US
[72] BOLLETER, DAVID S., US
[72] SCHWIMMER, CHARLES M., US
[72] WILK, ROBERT A., US
[73] TELEFLEX LIFE SCIENCES LIMITED, MT
[86] (3023005)
[87] (3023005)
[22] 2006-06-27
[62] 2,612,483
[30] US (11/190,331) 2005-07-27

[11] **3,023,126**
[13] C

[51] **Int.Cl. G01N 35/10 (2006.01) B01L 3/00 (2006.01) G01N 35/00 (2006.01) G01N 35/02 (2006.01) G01N 35/04 (2006.01)**
[25] EN
[54] **REAGENT NOZZLE SIPPER MIXING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE MELANGE DE GOUTTEURS A BUSE DE REACTIF**
[72] DREWS, BRADLEY KENT, US
[72] WANG, MICHAEL DAI, US
[72] ULMANELLA, UMBERTO, US
[72] OSMUS, JAMES MICHAEL, US
[72] CLARK, STEPHEN WAYNE, US
[72] WHITACRE, JOHANNA LYNN, US
[72] PHELPS, STEVEN SCOTT, US
[72] ALVAREZ, MICHELLE L., US
[72] NIZIOLEK, MICHAEL ADALBERT, US
[72] BRYAN, DEBRA SUE, US
[72] DARLAND, JOSHUA AUGUSTIN, US
[73] ILLUMINA, INC., US
[85] 2018-11-02
[86] 2017-12-21 (PCT/US2017/067836)
[87] (WO2018/128842)
[30] US (62/442,765) 2017-01-05
[30] GB (1704760.6) 2017-03-24
[30] US (15/841,098) 2017-12-13

[11] **3,023,128**
[13] C

[51] **Int.Cl. C09B 23/08 (2006.01) G01N 21/359 (2014.01) A24C 5/34 (2006.01) C07D 209/60 (2006.01) C09K 11/06 (2006.01) G01N 21/94 (2006.01)**
[25] EN
[54] **OIL DETECTION PROCESS, APPARATUS AND TAGGANT THEREFOR**
[54] **PROCEDE DE DETECTION DE PETROLE, APPAREIL ET TRACEUR ASSOCIES**
[72] CADIEUX, EDMOND J. JR., US
[72] FAENZA, WILLIAM JAMES, US
[73] ALTRIA CLIENT SERVICES LLC, US
[86] (3023128)
[87] (3023128)
[22] 2012-05-29
[62] 2,837,315
[30] US (61/490,403) 2011-05-26
[30] US (13/338,971) 2011-12-28

[11] **3,023,405**
[13] C

[51] **Int.Cl. G01B 21/20 (2006.01) B27B 27/00 (2006.01) G01B 11/00 (2006.01)**
[25] EN
[54] **VIRTUAL AUTOCALIBRATION OF SENSORS**
[54] **AUTOETALONNAGE VIRTUEL DES CAPTEURS**
[72] STRASKY, DOUGLAS G., CA
[72] KALF, ERIK W., CA
[72] WALTZ, BRIAN, CA
[73] USNR, LLC, US
[86] (3023405)
[87] (3023405)
[22] 2018-11-06
[30] US (62/582,305) 2017-11-06

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[11] **3,023,707**
[13] C

[51] **Int.Cl. E21B 3/02 (2006.01) E21B 19/16 (2006.01) E21B 47/12 (2012.01)**

[25] EN

[54] **TOP DRIVE SYSTEM**

[54] **SYSTEME D'ENTRAINEMENT PAR LE HAUT**

[72] HEIDECKE, KARSTEN, US

[72] RIALS, ROSS, US

[72] FISHER, RALEIGH, US

[72] OLSTAD, DELANEY MICHAEL, US

[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[86] (3023707)

[87] (3023707)

[22] 2008-12-12

[62] 2,974,298

[30] US (61/013,235) 2007-12-12

[11] **3,023,808**
[13] C

[51] **Int.Cl. G01N 27/72 (2006.01) G01N 29/04 (2006.01) G01N 29/22 (2006.01) G01N 29/32 (2006.01)**

[25] EN

[54] **DEVICE WITH A PROTECTIVE DEVICE FOR INSPECTION OF A PIPE WALL OR OTHER WORKPIECE**

[54] **DISPOSITIF COMPRENANT UN DISPOSITIF DE PROTECTION SERVANT AU CONTROLE D'UNE PAROI TUBULAIRE OU D'UNE AUTRE PIECE**

[72] HENNIG, THOMAS, IE

[73] NDT GLOBAL CORPORATE LTD. IRELAND, IE

[85] 2018-11-09

[86] 2017-05-11 (PCT/EP2017/061309)

[87] (WO2017/194667)

[30] DE (10 2016 108 744.0) 2016-05-11

[11] **3,024,665**
[13] C

[51] **Int.Cl. C12N 5/077 (2010.01) C12N 5/071 (2010.01) C12N 5/078 (2010.01) A61K 35/28 (2015.01) A61L 27/38 (2006.01) A61P 19/08 (2006.01)**

[25] EN

[54] **CELL CULTURE METHOD USING BONE MARROW-LIKE STRUCTURE, AND POROUS POLYIMIDE FILM FOR HEALING BONE INJURY SITE**

[54] **PROCEDE DE CULTURE CELLULAIRE UTILISANT UNE STRUCTURE DE TYPE MOELLE OSSEUSE, ET MEMBRANE POREUSE DE POLYIMIDE POUR LE TRAITEMENT DE SITE D'ENDOMMAGEMENT OSSEUX**

[72] HAGIHARA, MASAHIKO, JP

[72] HIRASHIMA, SHINGO, JP

[72] OHTA, KEISUKE, JP

[72] SHIMIZU, MOTOHISA, JP

[73] KURUME UNIVERSITY, JP

[73] UBE INDUSTRIES, LTD., JP

[86] (3024665)

[87] (3024665)

[22] 2016-01-26

[62] 2,974,074

[30] JP (2015-012743) 2015-01-26

[30] JP (2015-012696) 2015-01-26

[11] **3,024,890**
[13] C

[51] **Int.Cl. B67D 7/02 (2010.01) B67D 7/32 (2010.01)**

[25] EN

[54] **DEVICE FOR REMOVING FUEL FROM TANK CARTRIDGES FOR FUEL CELLS**

[54] **DISPOSITIF DE PRELEVEMENT DE COMBUSTIBLE DE CARTOUCHES DE RESERVOIR POUR PILES A COMBUSTIBLE**

[72] MEIXNER, OLIVER, DE

[72] WIENKE, MATTHIAS, DE

[72] TASCHKE, FLORIAN, DE

[73] SFC ENERGY AG, DE

[85] 2018-11-20

[86] 2017-04-24 (PCT/EP2017/059663)

[87] (WO2017/207170)

[30] EP (16172143.6) 2016-05-31

[11] **3,025,298**
[13] C

[51] **Int.Cl. C11D 17/00 (2006.01) C11D 3/04 (2006.01) C11D 3/20 (2006.01) C11D 3/37 (2006.01) C11D 3/39 (2006.01)**

[25] EN

[54] **REDUCED MISTING ACIDIC CLEANING, SANITIZING, AND DISINFECTING COMPOSITIONS VIA THE USE OF HIGH MOLECULAR WEIGHT WATER-IN-OIL EMULSION POLYMERS**

[54] **COMPOSITIONS ACIDES DE NETTOYAGE, D'ASEPTISATION ET DE DESINFECTION A FAIBLE EMBUAGE PAR L'UTILISATION DE POLYMERES EN EMULSION D'EAU DANS L'HUILE A MASSE MOLECULAIRE ELEVEE**

[72] MAN, VICTOR FUK-PONG, US

[72] ANDERSON, DERRICK, US

[72] CHRISTIAN, PAUL, US

[72] CREW, BENJAMIN, US

[72] HUANG, XINYU, US

[72] HODGE, CHARLES ALLEN, US

[72] BLATTNER, AMANDA RUTH, US

[73] ECOLAB USA INC., US

[85] 2018-11-21

[86] 2017-05-23 (PCT/US2017/033944)

[87] (WO2017/205339)

[30] US (62/340,079) 2016-05-23

[11] **3,025,562**
[13] C

[51] **Int.Cl. E01C 23/088 (2006.01) E01C 23/06 (2006.01) E01C 23/08 (2006.01)**

[25] EN

[54] **ASPHALT MILLING ATTACHMENT WITH ADJUSTABLE BAFFLE AND SECURE ATTACHMENT**

[54] **OUTIL DE BROYAGE D'ASPHALTE A DEFLECTEUR REGLABLE ET FIXATION SURE**

[72] HAROLDSSEN, J. TRON, US

[72] TAYLOR, MATTHEW H., US

[73] ASPHALT ZIPPER, INC., US

[85] 2018-11-23

[86] 2017-06-09 (PCT/US2017/036867)

[87] (WO2017/218361)

[30] US (62/350,996) 2016-06-16

[30] US (15/617,921) 2017-06-08

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[11] **3,026,002**
[13] C

[51] **Int.Cl. B25J 5/00 (2006.01) B25J 9/00 (2006.01) B25J 19/02 (2006.01) B60P 1/48 (2006.01)**

[25] EN

[54] **MOBILE WORK STATION FOR TRANSPORTING A PLURALITY OF ARTICLES**

[54] **POSTE DE TRAVAIL MOBILE DESTINE A TRANSPORTER UNE PLURALITE D'ARTICLES**

[72] BIDRAM, FARHANG, CA

[73] ADVANCED INTELLIGENT SYSTEMS INC., CA

[85] 2018-11-15

[86] 2017-03-10 (PCT/CA2017/000057)

[87] (WO2018/045448)

[30] US (62/383,747) 2016-09-06

[11] **3,026,688**
[13] C

[51] **Int.Cl. B32B 19/02 (2006.01) B29C 39/20 (2006.01) B32B 37/10 (2006.01) E04F 15/08 (2006.01) E04F 15/10 (2006.01)**

[25] EN

[54] **STONE-PLASTIC HOT PRESSING FLOORING AND MANUFACTURING METHOD THEREOF**

[54] **REVETEMENT DE PLANCHER PRESSE A CHAUD EN PIERRE ET PLASTIQUE ET METHODE DE FABRICATION ASSOCIEE**

[72] DAI, HUIBIN, CN

[73] ZHEJIANG KINGDOM PLASTICS INDUSTRY CO., LTD., CN

[85] 2018-12-06

[86] 2017-09-30 (PCT/CN2017/105072)

[87] (WO2019/061518)

[11] **3,027,262**
[13] C

[51] **Int.Cl. A41D 19/04 (2006.01) B29C 41/14 (2006.01) C08J 3/26 (2006.01) C08K 5/29 (2006.01) C08L 13/02 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURING GLOVES, GLOVE, AND EMULSION COMPOSITION FOR GLOVES**

[54] **PROCEDE DE FABRICATION DE GANTS, GANT, ET COMPOSITION D'EMULSION POUR GANTS**

[72] ENOMOTO, NORIHIDE, JP

[72] OGAWA, TAICHI, JP

[72] YANAGISAWA, KENICHI, JP

[72] MATSUMOTO, NOBUYUKI, JP

[73] MIDORI ANZEN CO., LTD., JP

[85] 2018-12-10

[86] 2017-06-16 (PCT/JP2017/022367)

[87] (WO2017/217542)

[30] JP (2016-119754) 2016-06-16

[11] **3,027,431**
[13] C

[51] **Int.Cl. F21V 5/00 (2018.01) G02B 27/30 (2006.01)**

[25] EN

[54] **LIGHT RAY CONCENTRATOR**

[54] **CONCENTRATEUR DE RAYONS LUMINEUX**

[72] TANG, PAUL E., US

[73] TANG, PAUL E., US

[85] 2018-12-11

[86] 2017-06-14 (PCT/US2017/037571)

[87] (WO2017/218716)

[30] US (62/350,092) 2016-06-14

[11] **3,027,548**
[13] C

[51] **Int.Cl. B60R 25/34 (2013.01) G01B 11/00 (2006.01)**

[25] EN

[54] **TRAILER DOOR MONITORING AND REPORTING**

[54] **SURVEILLANCE ET SIGNALEMENT DE PORTE DE REMORQUE**

[72] KRISHNAMURTHY, ADITHYA, US

[72] BARISH, JUSTIN F., US

[73] SYMBOL TECHNOLOGIES, LLC, US

[86] (3027548)

[87] (3027548)

[22] 2018-12-13

[30] US (15/853077) 2017-12-22

[11] **3,028,242**
[13] C

[51] **Int.Cl. B01D 3/06 (2006.01) B01D 3/10 (2006.01) B01D 19/00 (2006.01)**

[25] EN

[54] **AN OIL DEHYDRATOR, A SYSTEM FOR DEHYDRATING OIL COMPRISING AN OIL DEHYDRATOR AND A METHOD FOR DEHYDRATING OIL WITH AN OIL DEHYDRATOR**

[54] **DESHYDRATEUR D'HUILE, SYSTEME DE DESHYDRATATION D'HUILE COMPRENANT UN DESHYDRATEUR D'HUILE ET PROCEDE DE DESHYDRATATION D'HUILE AVEC UN DESHYDRATEUR D'HUILE**

[72] SATHRE, NILS RUNE, NO

[73] ALFA LAVAL CORPORATE AB, SE

[85] 2018-12-18

[86] 2016-10-25 (PCT/EP2016/075594)

[87] (WO2018/001536)

[30] EP (16177418.7) 2016-07-01

[11] **3,029,338**
[13] C

[51] **Int.Cl. E21B 19/00 (2006.01) E21B 19/14 (2006.01) G08B 21/00 (2006.01)**

[25] EN

[54] **SYSTEM FOR MONITORING PIPE-RETAINING STRUCTURES**

[54] **SYSTEME DE SURVEILLANCE DE STRUCTURES DE RETENUE DE TUBES**

[72] RICE, HUBERT LEE, II, US

[73] RICE ELECTRONICS, LP, US

[85] 2018-12-24

[86] 2017-08-30 (PCT/US2017/049425)

[87] (WO2018/045059)

[30] US (62/381,822) 2016-08-31

[30] US (62/413,672) 2016-10-27

[30] US (15/689,717) 2017-08-29

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[11] **3,029,429**
[13] C

- [51] **Int.Cl. F28D 7/16 (2006.01)**
[25] EN
[54] **ENTRAINMENT HEAT EXCHANGER**
[54] **ECHANGEUR DE CHALEUR A ENTRAINEMENT**
[72] RAMBO, JEFFREY DOUGLAS, US
[73] GENERAL ELECTRIC COMPANY, US
[85] 2018-12-27
[86] 2017-07-06 (PCT/US2017/040802)
[87] (WO2018/013394)
[30] US (15/210,434) 2016-07-14

[11] **3,029,828**
[13] C

- [51] **Int.Cl. B60W 30/09 (2012.01) B60W 60/00 (2020.01) B60W 50/00 (2006.01) G05D 1/02 (2020.01)**
[25] EN
[54] **TESTING PREDICTIONS FOR AUTONOMOUS VEHICLES**
[54] **PREDICTIONS DE TESTS POUR VEHICULES AUTONOMES**
[72] FAIRFIELD, NATHANIEL, US
[72] FURMAN, VADIM, US
[73] WAYMO LLC, US
[85] 2019-01-03
[86] 2017-06-28 (PCT/US2017/039717)
[87] (WO2018/009391)
[30] US (15/202,698) 2016-07-06

[11] **3,029,871**
[13] C

- [51] **Int.Cl. H04L 9/32 (2006.01)**
[25] EN
[54] **AUTHENTICATION SERVER, AUTHENTICATION SYSTEM AND METHOD**
[54] **SERVEUR D'AUTHENTIFICATION, SYSTEME D'AUTHENTIFICATION ET PROCEDE D'AUTHENTIFICATION**
[72] CHAN, TAI CHIU, CN
[73] CHAN, TAI CHIU, CN
[85] 2019-01-04
[86] 2018-01-23 (PCT/CN2018/073888)
[87] (WO2018/141219)
[30] US (62/452,996) 2017-02-01

[11] **3,030,731**
[13] C

- [51] **Int.Cl. E21B 17/10 (2006.01)**
[25] EN
[54] **WEAR RESISTANT DRILL PIPE FOR USE IN THE DOWN-HOLE ENVIRONMENT**
[54] **TIGE DE FORAGE RESISTANT A L'USURE POUR UTILISATION DANS UN ENVIRONNEMENT DE FOND DE Puits**
[72] ALLEN, ANDREW J., US
[72] AUNG, THEIN HTUN, US
[72] GARZA, RAUL G., US
[72] MOORE, R. THOMAS, US
[73] RDT, INC., US
[86] (3030731)
[87] (3030731)
[22] 2011-03-14
[62] 2,811,482

[11] **3,030,741**
[13] C

- [51] **Int.Cl. H04W 36/00 (2009.01) H04W 80/10 (2009.01) H04W 76/18 (2018.01)**
[25] EN
[54] **METHOD FOR PROCESSING PDU SESSION ESTABLISHMENT PROCEDURE AND AMF NODE**
[54] **PROCEDE DE TRAITEMENT D'UNE PROCEDURE D'ETABLISSEMENT DE SESSION PDU ET NœUD AMF**
[72] YOUN, MYUNGJUNE, KR
[72] KIM, LAEYOUNG, KR
[72] KIM, JAEHYUN, KR
[72] KIM, HYUNSOOK, KR
[72] RYU, JINSOOK, KR
[72] PARK, SANGMIN, KR
[73] LG ELECTRONICS INC., KR
[85] 2019-01-11
[86] 2018-04-11 (PCT/KR2018/004255)
[87] (WO2018/194315)
[30] US (62/486,982) 2017-04-19
[30] US (62/489,996) 2017-04-25
[30] US (62/581,036) 2017-11-03
[30] KR (10-2018-0034808) 2018-03-27

[11] **3,031,556**
[13] C

- [51] **Int.Cl. H04N 19/134 (2014.01) H04N 21/24 (2011.01)**
[25] EN
[54] **VIDEO AND DATA MULTIPLEXING IN AN ADAPTIVE BITRATE SERVER**
[54] **MULTIPLEXAGE DE VIDEOS ET DE DONNEES DANS UN SERVEUR A DEBIT BINAIRE ADAPTATIF**
[72] SCHMIDT, MARK S., US
[72] MOORTHY, PRAVEEN N., US
[72] LUTHRA, AJAY, US
[72] LI, BAOZHOU, US
[73] ARRIS ENTERPRISES LLC, US
[85] 2019-01-21
[86] 2017-07-20 (PCT/US2017/043082)
[87] (WO2018/017839)
[30] US (62/364,382) 2016-07-20
[30] US (15/655,016) 2017-07-20

[11] **3,031,717**
[13] C

- [51] **Int.Cl. C25C 3/16 (2006.01) C25C 3/08 (2006.01)**
[25] EN
[54] **CATHODE CURRENT COLLECTOR/CONNECTOR FOR A HALL-HEROULT CELL**
[54] **COLLECTEUR DE COURANT CATHODIQUE POUR CELLULE DE HALL-HEROULT**
[72] PFEFFER, MARKUS, DE
[72] VON KAENEL, RENE, CH
[73] NOVALUM SA, CH
[73] TOKAI COBEX GMBH, DE
[85] 2019-01-23
[86] 2017-07-26 (PCT/EP2017/068889)
[87] (WO2018/019888)
[30] DE (10 2016 213 715.8) 2016-07-26

[11] **3,032,216**
[13] C

- [51] **Int.Cl. H01F 38/14 (2006.01) H02J 50/10 (2016.01) H02J 50/12 (2016.01) H01F 27/28 (2006.01)**
[25] EN
[54] **COIL ASSEMBLY**
[54] **DISPOSITIF A BOBINES**
[72] EDER, STEPHAN, DE
[73] ETAEM GMBH, DE
[85] 2019-01-28
[86] 2017-07-26 (PCT/EP2017/068860)
[87] (WO2018/019876)
[30] DE (10 2016 113 839.8) 2016-07-27

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[13] C

[51] **Int.Cl. F03D 9/00 (2016.01) F03D 9/25 (2016.01)**
[25] EN
[54] **METHOD FOR CONTROLLING A WIND TURBINE**
[54] **PROCEDE DE COMMANDE D'UNE EOLIENNE**
[72] BROMBACH, JOHANNES, DE
[72] SCHUBERT, KATHARINA, DE
[73] WOBLEN PROPERTIES GMBH, DE
[85] 2019-01-30
[86] 2017-08-21 (PCT/EP2017/071017)
[87] (WO2018/033646)
[30] DE (10 2016 115 431.8) 2016-08-19

[11] **3,032,619**
[13] C

[51] **Int.Cl. A63B 69/32 (2006.01)**
[25] EN
[54] **COMPUTERIZED TRAINING PUNCHING BAG**
[54] **SAC DE FRAPPE INFORMATISE POUR L'ENTRAINEMENT**
[72] CODRINGTON, STEVEN, US
[73] CODRINGTON, STEVEN, US
[85] 2019-01-31
[86] 2016-08-03 (PCT/US2016/045412)
[87] (WO2017/024066)
[30] US (62/200,554) 2015-08-03
[30] US (62/200,792) 2015-08-04

[11] **3,033,276**
[13] C

[51] **Int.Cl. A61M 25/01 (2006.01) A61M 25/06 (2006.01) A61M 25/09 (2006.01)**
[25] EN
[54] **CATHETER INSERTION DEVICE**
[54] **DISPOSITIF D'INSERTION DE CATHETER**
[72] KORKUCH, CHRIS, US
[72] KUEHN, JEFFREY P., US
[72] PIEPRZYK, DREW, US
[73] TELEFLEX MEDICAL INCORPORATED, US
[86] (3033276)
[87] (3033276)
[22] 2014-06-17
[62] 2,921,350
[30] US (61/865.944) 2013-08-14
[30] US (14/205.307) 2014-03-11

[11] **3,033,525**
[13] C

[51] **Int.Cl. A61B 17/04 (2006.01)**
[25] EN
[54] **DEVICE FOR SECURING SUTURE TO AN ANCHOR BODY OF A SUTURE ANCHOR**
[54] **DISPOSITIF DE FIXATION DE SUTURE A UN CORPS D'ANCRAGE D'UN ANCRAGE DE SUTURE**
[72] KAM, ANDREW, US
[73] CONMED CORPORATION, US
[85] 2019-02-08
[86] 2017-08-16 (PCT/US2017/047156)
[87] (WO2018/035232)
[30] US (62/375,652) 2016-08-16

[11] **3,034,314**
[13] C

[51] **Int.Cl. A61B 34/20 (2016.01) A61B 34/10 (2016.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR REGISTRATION OF VIRTUAL SPACE WITH REAL SPACE IN AN AUGMENTED REALITY SYSTEM**
[54] **PROCEDES ET SYSTEMES D'ENREGISTREMENT D'ESPACE VIRTUEL AVEC L'ESPACE REEL DANS UN SYSTEME DE REALITE AUGMENTEE**
[72] THOMAS, MONROE MILAS, CA
[73] SYNAPTIVE MEDICAL INC., CA
[85] 2019-02-19
[86] 2016-08-17 (PCT/CA2016/050961)
[87] (WO2018/032083)

[11] **3,034,315**
[13] C

[51] **Int.Cl. B60P 3/24 (2006.01) B61D 5/00 (2006.01) B61D 5/02 (2006.01)**
[25] EN
[54] **MINIMIZING DEFORMATION OF TANK TRAILER COMPONENTS**
[54] **REDUCTION A UN MINIMUM DE LA DEFORMATION DE COMPOSANTS DE REMORQUE-CITERNE**
[72] KIBLER, SCOTT A., US
[72] GORDON, ALLEN, US
[73] MAC TRAILER MANUFACTURING, INC., US
[86] (3034315)
[87] (3034315)
[22] 2019-02-20
[30] US (62/648,694) 2018-03-27
[30] US (15/979,784) 2018-05-15

[11] **3,034,726**
[13] C

[51] **Int.Cl. H04N 5/455 (2006.01) H04N 21/40 (2011.01) H04N 21/436 (2011.01) H04L 27/34 (2006.01)**
[25] EN
[54] **MULTI-STREAM PREMISES APPARATUS AND METHODS FOR USE IN A CONTENT DELIVERY NETWORK**
[54] **APPAREIL A FLUX MULTIPLES INSTALLE CHEZ L'ABONNE ET SES PROCEDES D'UTILISATION DANS UN RESEAU DE LIVRAISON DE CONTENU**
[72] CHOLAS, CHRIS, US
[72] HELMS, WILLIAM L., US
[72] SAROSI, GEORGE W., US
[73] TIME WARNER CABLE ENTERPRISES LLC, US
[86] (3034726)
[87] (3034726)
[22] 2009-02-18
[62] 2,722,792
[30] US (12/070,560) 2008-02-19

[11] **3,034,787**
[13] C

[51] **Int.Cl. A61C 17/34 (2006.01) A61C 1/18 (2006.01)**
[25] EN
[54] **ELECTRICALLY DRIVEN DEVICE**
[54] **DISPOSITIF D'ENTRAINEMENT ELECTRIQUE**
[72] KRAMP, ANDREAS, DE
[72] FRITSCH, THOMAS, DE
[72] SCHAEFER, NORBERT, DE
[73] BRAUN GMBH, DE
[85] 2019-02-22
[86] 2017-09-05 (PCT/IB2017/055331)
[87] (WO2018/060790)
[30] EP (16191023.7) 2016-09-28

[11] **3,035,575**
[13] C

[51] **Int.Cl. B01F 7/32 (2006.01) B01F 15/00 (2006.01)**
[25] EN
[54] **MUD MIXING BIT**
[54] **FORET DE MELANGE DE BOUE**
[72] SCHRUDDER, VICTORIA, US
[72] SCHRUDDER, NATHAN, US
[73] SCHRUDDER, VICTORIA, US
[73] SCHRUDDER, NATHAN, US
[86] (3035575)
[87] (3035575)
[22] 2019-03-04

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[13] C

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[25] EN
[54] **DIGITAL OFFSET LITHOGRAPHY INK COMPOSITION**
[54] **COMPOSITION D'ENCRE DE LITHOGRAPHIE DECALEE NUMERIQUE**
[72] ALLEN, C. GEOFFREY, CA
[72] MOORLAG, CAROLYN, CA
[72] MAGDALINIS, AURELIAN VALERIU, CA
[72] ABRAHAM, BIBY ESTHER, CA
[72] LEE, JONATHAN SIU-CHUNG, CA
[73] XEROX CORPORATION, US
[86] (3036199)
[87] (3036199)
[22] 2019-03-08
[30] US (15/920652) 2018-03-14

[11] **3,036,301**
[13] C

[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **RECOMBINANT BINDING PROTEINS COMPRISING ANKYRIN REPEAT DOMAINS AND THEIR USE**
[54] **PROTEINES RECOMBINANTES DE LIAISON COMPRENANT DES DOMAINES DE REPETITION D'ANKYRINE**
[72] METZ, CLARA, CH
[72] FIEDLER, ULRIKE, DE
[72] DOLADO, IGNACIO, CH
[72] STROBEL, HEIKE MARIA, CH
[73] MOLECULAR PARTNERS AG, CH
[85] 2019-03-08
[86] 2017-09-20 (PCT/EP2017/073768)
[87] (WO2018/054971)
[30] EP (16190221.8) 2016-09-22

[11] **3,036,396**
[13] C

[51] **Int.Cl. B64D 33/02 (2006.01) B64C 27/04 (2006.01) B64D 27/26 (2006.01) F02C 7/36 (2006.01)**
[25] EN
[54] **FLEXIBLE RADIAL INLET PLENUM**
[54] **VIDE D'ENTREE RADIAL FLEXIBLE**
[72] OUELLET, MARC, CA
[72] NOISEUX-BOUCHER, GUILLAUME, CA
[73] BELL HELICOPTER TEXTRON INC., US
[86] (3036396)
[87] (3036396)
[22] 2019-03-08
[30] US (15/915,632) 2018-03-08

[11] **3,036,857**
[13] C

[51] **Int.Cl. B62D 63/06 (2006.01) B60P 3/355 (2006.01) B60S 9/02 (2006.01) B62D 63/08 (2006.01)**
[25] EN
[54] **HOLIDAY TRAILER**
[54] **REMORQUE DE VACANCES**
[72] DUTHIE, ANDREW, CA
[73] PIKA TENT TRAILERS INC., CA
[86] (3036857)
[87] (3036857)
[22] 2019-03-14
[30] US (62/682445) 2018-06-08

[11] **3,036,911**
[13] C

[51] **Int.Cl. E21B 47/00 (2012.01) G01V 3/26 (2006.01) G01V 3/38 (2006.01)**
[25] EN
[54] **MULTI-Z HORIZON AUTO-TRACKING**
[54] **POURSUITE AUTOMATIQUE D'HORIZONS MULTI-Z**
[72] NGUYEN, NAM XUAN, US
[72] WANG, KAINAN, US
[72] TAN, XUEWEI, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2019-03-13
[86] 2017-10-20 (PCT/US2017/057686)
[87] (WO2018/093531)
[30] US (62/424,334) 2016-11-18

[11] **3,037,483**
[13] C

[51] **Int.Cl. E21B 17/00 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **VECTOR-RATIO SAFETY FACTORS FOR WELLBORE TUBULAR DESIGN**
[54] **FACTEURS DE SECURITE BASES SUR RAPPORT VECTORIEL POUR CONCEPTION TUBULAIRE DE Puits DE FORAGE**
[72] LIU, ZHENGCHUN, US
[72] SAMUEL, ROBELLO, US
[72] GONZALES, ADOLFO, US
[72] KANG, YONGFENG, US
[73] LANDMARK GRAPHICS CORPORATION, US
[85] 2019-03-19
[86] 2017-09-18 (PCT/US2017/052091)
[87] (WO2018/097876)
[30] US (15/359,397) 2016-11-22

[11] **3,037,759**
[13] C

[51] **Int.Cl. H05B 6/06 (2006.01) B21C 47/00 (2006.01) C22F 1/04 (2006.01) H05B 6/10 (2006.01)**
[25] EN
[54] **COMPACT CONTINUOUS ANNEALING SOLUTION HEAT TREATMENT**
[54] **TRAITEMENT THERMIQUE COMPACT DE SOLUTION DE RECUIT EN CONTINU**
[72] GAENSBAUER, DAVID ANTHONY, US
[72] CUSTERS, DAVID MICHAEL, CA
[72] KOSMICKI, MICHAEL, US
[72] EDDIE, CURTIS, US
[72] HOBBS, ANDREW JAMES, US
[73] NOVELIS INC., US
[85] 2019-03-20
[86] 2017-09-27 (PCT/US2017/053826)
[87] (WO2018/064228)
[30] US (62/400,426) 2016-09-27
[30] US (62/505,948) 2017-05-14

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[11] **3,038,663**
[13] C

[51] **Int.Cl. B60D 1/58 (2006.01) B60W 40/13 (2012.01)**
[25] EN
[54] **LOAD SENSING PIN BOX**
[54] **BOITE A GOUPILLE DETECTANT LA CHARGE**
[72] HEITZMANN, DAVID E., US
[73] MORRYDE INTERNATIONAL, INC., US
[86] (3038663)
[87] (3038663)
[22] 2019-04-02
[30] US (62651368) 2018-04-02

[11] **3,038,686**
[13] C

[51] **Int.Cl. F03D 80/60 (2016.01)**
[25] EN
[54] **COOLING A WIND TURBINE GENERATOR**
[54] **REFROIDISSEMENT D'UN GENERATEUR D'EOLIENNE**
[72] SOERENSEN, PETER HESSELLUND, DK
[73] FLENDER GMBH, DE
[85] 2019-03-28
[86] 2017-09-15 (PCT/EP2017/073331)
[87] (WO2018/059974)
[30] DE (10 2016 218 963.8) 2016-09-30

[11] **3,039,053**
[13] C

[51] **Int.Cl. C07H 19/10 (2006.01) A61K 31/7105 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **METHOD FOR PURIFYING P1,P4-DI(URIDINE 5'-)TETRAPHOSPHATE**
[54] **PROCEDE DE PURIFICATION DE P1, P4-DI(URIDINE 5'-) TETRAPHOSPHATE**
[72] OHBA, YUSUKE, JP
[72] OYAMA, TOMOKO, JP
[72] KANO, FUMITAKA, JP
[72] UCHINO, ASUKA, JP
[73] YAMASA CORPORATION, JP
[85] 2019-04-01
[86] 2017-10-24 (PCT/JP2017/038237)
[87] (WO2018/079503)
[30] JP (2016-209024) 2016-10-25
[30] JP (2016-209026) 2016-10-25

[11] **3,039,630**
[13] C

[51] **Int.Cl. G03G 21/14 (2006.01) G03G 15/08 (2006.01)**
[25] EN
[54] **CHIP AND SUPPLY ITEM FOR IMAGING DEVICE, INCLUDING COMMUNICATION**
[54] **PUCE ET ELEMENT D'ALIMENTATION D'UN DISPOSITIF D'IMAGERIE, Y COMPRIS LA COMMUNICATION**
[72] BUSH, STEPHEN PORTER, US
[72] RADEMACHER, TIMOTHY JOHN, US
[72] ADKINS, CHRISTOPHER ALAN, US
[73] LEXMARK INTERNATIONAL, INC., US
[86] (3039630)
[87] (3039630)
[22] 2019-04-08
[30] US (15/952,376) 2018-04-13

[11] **3,041,764**
[13] C

[51] **Int.Cl. A61F 13/49 (2006.01)**
[25] EN
[54] **LAMINATE(S) COMPRISING BEAMED ELASTICS AND ABSORBENT ARTICLE(S) COMPRISING SAID LAMINATE(S) COMPRISING SAID LAMINATE(S) STRATIFIE(S) COMPRENANT DES ELASTIQUES SUR ENSOUPLE ET ARTICLE(S) ABSORBANT(S) COMPRENANT LE(S)DIT(S) STRATIFIE(S)**
[72] LAVON, GARY DEAN, US
[72] SCHNEIDER, UWE, US
[72] SEITZ, BRET DARREN, US
[72] WADE, SARAH MARIE, US
[72] ECKSTEIN, JOSEPH ALLEN, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2019-04-24
[86] 2017-12-19 (PCT/US2017/067229)
[87] (WO2018/118869)
[30] US (62/436,589) 2016-12-20
[30] US (62/483,965) 2017-04-11
[30] US (62/553,149) 2017-09-01
[30] US (62/553,171) 2017-09-01
[30] US (62/553,538) 2017-09-01
[30] US (62/581,278) 2017-11-03

[11] **3,041,984**
[13] C

[51] **Int.Cl. A01G 20/47 (2018.01) E01H 1/08 (2006.01) F15D 1/08 (2006.01) F04D 25/08 (2006.01)**
[25] EN
[54] **BLOWERS WITH VARIABLE NOZZLES**
[54] **SOUFFLEURS A BUSES VARIABLES**
[72] HOFFMAN, RONALD J., US
[72] HOLMAN, CHRISTOPHER A., US
[72] NOLIN, ERIC, US
[73] TECHTRONIC OUTDOOR PRODUCTS TECHNOLOGY LIMITED, BM
[86] (3041984)
[87] (3041984)
[22] 2019-05-01
[30] US (62/665,797) 2018-05-02

[11] **3,042,142**
[13] C

[51] **Int.Cl. E04F 17/02 (2006.01) F24F 7/06 (2006.01) F24F 11/00 (2018.01)**
[25] EN
[54] **EXHAUST GAS DISCHARGE DEVICE FOR FIRE ENGINE IN FIRE STATION**
[54] **DISPOSITIF D'EVACUATION DE GAZ D'ECHAPPEMENT POUR CAMION D'INCENDIE DANS UNE CASERNE DE POMPIERS**
[72] HA, SANG SOON, KR
[73] CHEONG GU INNOVATION CO.,LTD., KR
[85] 2019-05-01
[86] 2017-07-31 (PCT/KR2017/008249)
[87] (WO2018/066798)
[30] KR (10-2016-0129714) 2016-10-07

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[11] **3,042,387**
[13] C

[51] **Int.Cl. E21B 29/00 (2006.01) E21B 10/32 (2006.01) E21B 23/06 (2006.01) E21B 47/00 (2012.01)**

[25] EN

[54] **DEBRIS BRIDGE MONITORING AND REMOVAL FOR UPHOLE MILLING SYSTEM**

[54] **SURVEILLANCE ET RETRAIT DE PONT DE DEBRIS POUR SYSTEME DE BROyage DE HAUT DE TROU**

[72] CLEM, NICHOLAS J., US
[72] FENG, LEI, US
[73] BAKER HUGHES, A GE COMPANY, LLC, US
[85] 2019-04-30
[86] 2017-11-02 (PCT/US2017/059773)
[87] (WO2018/085575)
[30] US (15/344,105) 2016-11-04

[11] **3,043,409**
[13] C

[51] **Int.Cl. B65H 49/32 (2006.01) B62B 3/04 (2006.01) B65H 75/40 (2006.01) B65H 75/44 (2006.01)**

[25] EN

[54] **DEVICES FOR LIFTING, MANEUVERING, WINDING AND UNWINDING REELS**

[54] **APPAREILS DE LEVAGE, MANOEUVRE, ENROULEMENT ET DEROULEMENT DE TAMBOURS**

[72] GRABOWSKI, RUSSELL PAUL, US
[72] NIU, XIAOKAI, US
[73] SONOCO DEVELOPMENT, INC., US
[86] (3043409)
[87] (3043409)
[22] 2017-12-13
[62] 2,988,942
[30] US (15/384449) 2016-12-20

[11] **3,043,593**
[13] C

[51] **Int.Cl. A61M 5/20 (2006.01) A61M 5/142 (2006.01)**

[25] EN

[54] **MEDICATION DELIVERY DEVICE WITH MECHANICAL LOCKING SYSTEM**

[54] **DISPOSITIF D'ADMINISTRATION DE MEDICAMENT AVEC SYSTEME DE VERROUILLAGE MECANIQUE**

[72] BYERLY, ROY HOWARD, US
[72] RINGENBERGER, KIMBERLY ANN, US
[73] ELI LILLY AND COMPANY, US
[85] 2019-05-10
[86] 2017-11-08 (PCT/US2017/060509)
[87] (WO2018/093622)
[30] US (62/422,160) 2016-11-15

[11] **3,042,529**
[13] C

[51] **Int.Cl. B65G 15/64 (2006.01) B65G 21/06 (2006.01) B65G 39/12 (2006.01) B65G 39/16 (2006.01)**

[25] EN

[54] **RETURN BELT TRACKING IDLER FOR CONVEYOR BELT SYSTEM**

[54] **GALET TENDEUR DE COURROIE DE RETOUR POUR SYSTEME DE COURROIE TRANSPORTEUSE**

[72] WOLFE, CALEB, US
[72] FARROW, GLENN E., US
[72] SMITH, CHRISTOPHER S., US
[73] RICHWOOD INDUSTRIES INC., US
[86] (3042529)
[87] (3042529)
[22] 2016-02-29
[62] 3,006,033
[30] US (62/258,822) 2015-11-23
[30] US (15/052,824) 2016-02-24

[11] **3,043,475**
[13] C

[51] **Int.Cl. F16B 25/00 (2006.01)**

[25] EN

[54] **THREADED FASTENER**

[54] **ELEMENT DE FIXATION FILETE**

[72] GONG, YONGPING, US
[72] TRUONG, VICTOR, US
[72] CABAJ, STANLEY J., US
[72] LATZ, MARK D., US
[72] DILL, MICHAEL C., US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2019-05-09
[86] 2017-11-02 (PCT/US2017/059662)
[87] (WO2018/093571)
[30] US (62/422,978) 2016-11-16
[30] US (15/800,865) 2017-11-01

[11] **3,043,739**
[13] C

[51] **Int.Cl. F04B 9/04 (2006.01) E21B 21/08 (2006.01) F04B 15/02 (2006.01) F04B 17/03 (2006.01) F04B 53/14 (2006.01) F04B 53/16 (2006.01)**

[25] EN

[54] **MUD PUMP**

[54] **POMPE A BOUE**

[72] LESKO, GERALD, CA
[73] LESKO, GERALD, CA
[86] (3043739)
[87] (3043739)
[22] 2019-05-17

[11] **3,043,783**
[13] C

[51] **Int.Cl. B27L 7/00 (2006.01)**

[25] EN

[54] **SPLITTER PROFILER**

[54] **PROFILEUR DE FENDEUSE**

[72] BLOMQUIST, CHRISTOPHER W., US
[72] WHITAKER, BENJAMIN OWEN, US
[73] USNR, LLC, US
[86] (3043783)
[87] (3043783)
[22] 2019-05-16
[30] US (62/672,483) 2018-05-16

**Canadian Patents Issued
April 20, 2021**

[11] **3,043,872**
[13] C

[51] **Int.Cl. H03L 1/00 (2006.01) G04F 5/00 (2006.01) G04F 5/04 (2006.01) H03L 1/02 (2006.01)**

[25] EN

[54] **APPARATUSES AND METHODOLOGIES FOR VIBRATION EFFECTS CORRECTION IN OSCILLATORS**

[54] **APPAREILS ET METHODOLOGIES DE CORRECTION D'EFFETS DE VIBRATIONS DANS DES OSCILLATEURS**

[72] WANNER, SHANNON, US

[73] ST ENGINEERING IDIRECT, INC., US

[85] 2019-05-14

[86] 2017-10-17 (PCT/US2017/056883)

[87] (WO2018/075452)

[30] US (62/409,583) 2016-10-18

[30] US (15/363,191) 2016-11-29

[11] **3,045,130**
[13] C

[51] **Int.Cl. B65D 21/032 (2006.01) A61J 1/03 (2006.01) B65D 6/10 (2006.01) B65D 6/28 (2006.01) B65D 25/02 (2006.01) B65D 43/02 (2006.01) B65D 55/02 (2006.01)**

[25] EN

[54] **CONTAINER WITH SUPPORT SKIRT AND INNER CHAMBER**

[54] **RECIPIENT AVEC UNE JUPE DE SUPPORT ET UNE CHAMBRE INTERIEURE**

[72] BROZELL, LEONORA M., US

[73] MOLD-RITE PLASTICS, LLC, US

[86] (3045130)

[87] (3045130)

[22] 2019-06-03

[30] US (62/693,116) 2018-07-02

[30] US (16/295,798) 2019-03-07

[11] **3,046,487**
[13] C

[51] **Int.Cl. E21B 23/00 (2006.01) E21B 33/12 (2006.01) E21B 34/06 (2006.01)**

[25] EN

[54] **METHODS OF COMPLETING A WELL AND APPARATUS THEREFOR**

[54] **PROCEDES DE COMPLETION D'UN Puits ET APPAREIL ASSOCIE**

[72] WATSON, BROCK W., US

[72] FUNKHOUSER, GARY P., US

[73] THRU TUBING SOLUTIONS, INC., US

[85] 2019-06-07

[86] 2017-12-11 (PCT/US2017/065544)

[87] (WO2018/111749)

[30] US (62/433,459) 2016-12-13

[11] **3,046,685**
[13] C

[51] **Int.Cl. F04B 53/10 (2006.01) F04B 47/02 (2006.01) F04B 47/12 (2006.01) F16K 1/12 (2006.01) F16K 15/04 (2006.01)**

[25] EN

[54] **STREAMLINED VALVE ASSEMBLY FOR DOWNHOLE PUMP OR RECIPROCATING PUMP SYSTEM**

[54] **ENSEMBLE DE SOUPAPES PROFILEES POUR POMPE DE FOND OU SYSTEME DE POMPE ALTERNATIVE**

[72] STACHOWIAK, JOHN E., JR., US

[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US

[86] (3046685)

[87] (3046685)

[22] 2019-06-17

[30] US (16/026,400) 2018-07-03

[11] **3,047,149**
[13] C

[51] **Int.Cl. E05B 63/12 (2006.01) E05B 83/40 (2014.01) E05B 65/08 (2006.01)**

[25] EN

[54] **LOCKING DEVICE AND SLIDING DOOR WITH LOCKING DEVICE**

[54] **DISPOSITIF DE VERROUILLAGE ET PORTE COULISSANTE A DISPOSITIF DE VERROUILLAGE**

[72] KONRAD, WILFRIED, AT

[73] FACC AG, AT

[85] 2019-06-14

[86] 2018-01-18 (PCT/AT2018/060013)

[87] (WO2018/132856)

[30] AT (A 50031/2017) 2017-01-18

[11] **3,047,766**
[13] C

[51] **Int.Cl. B64D 45/08 (2006.01)**

[25] FR

[54] **PILOTING ASSISTANCE SYSTEM FOR AN AIRCRAFT, ASSOCIATED AIRCRAFT AND PROCESS TO ASSIST WITH PILOTING OF THIS AIRCRAFT**

[54] **SYSTEME D'AIDE AU PILOTAGE D'UN AERONEF, AERONEF ASSOCIE ET PROCEDE D'AIDE AU PILOTAGE DE CET AERONEF**

[72] NIKOLAJEVIC, KONSTANCA, FR

[72] BAUDRY, JEAN-PIERRE, FR

[72] BELANGER, NICOLAS, FR

[73] AIRBUS HELICOPTERS, FR

[86] (3047766)

[87] (3047766)

[22] 2019-06-21

[30] FR (1800751) 2018-07-16

[11] **3,048,011**
[13] C

[51] **Int.Cl. B65D 5/42 (2006.01) B65D 5/16 (2006.01)**

[25] EN

[54] **HIDDEN DISPLAY CASE**

[54] **CAISSE DE PRESENTATION DISSIMULEE**

[72] KISTNER, MATTHEW WAYNE, US

[73] INTERNATIONAL PAPER COMPANY, US

[85] 2019-06-20

[86] 2017-12-20 (PCT/US2017/067489)

[87] (WO2018/119024)

[30] US (15/386,644) 2016-12-21

[30] US (15/386,798) 2016-12-21

**Brevets canadiens délivrés
20 avril 2021**

[11] **3,048,514**
[13] C

[51] **Int.Cl. A61B 17/34 (2006.01)**
[25] EN
[54] **SUPPORT APPARATUS FOR SUPPORTING A TUBULAR BODY IN AN INCISION**
[54] **APPAREIL DE SUPPORT SERVANT A SOUTENIR UN CORPS TUBULAIRE DANS UNE INCISION**
[72] PACAK, JOHN S., CA
[72] DIAMOND, HEATHER D., CA
[72] CORBETT, CAROLINE A., CA
[73] SURGICAL STABILIZATION TECHNOLOGIES INC., CA
[86] (3048514)
[87] (3048514)
[22] 2012-08-10
[62] 3,011,997
[30] US (61524470) 2011-08-17

[11] **3,049,924**
[13] C

[51] **Int.Cl. G06Q 20/40 (2012.01)**
[25] EN
[54] **OFF-CHAIN SMART CONTRACT SERVICE BASED ON TRUSTED EXECUTION ENVIRONMENT**
[54] **SERVICE DE CONTRAT INTELLIGENT HORS REGISTRE DE CHAINE DE BLOCS ("OFF-CHAIN") REPOSANT SUR UN ENVIRONNEMENT D'EXECUTION DE CONFIANCE**
[72] SONG, XUYANG, CN
[72] YAN, YING, CN
[72] QIU, HONGLIN, CN
[72] ZHAO, BORAN, CN
[72] LIN, LI, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-07-11
[86] 2018-12-13 (PCT/CN2018/120887)
[87] (WO2019/072297)

[11] **3,050,791**
[13] C

[51] **Int.Cl. E21B 10/60 (2006.01) E21B 10/18 (2006.01)**
[25] EN
[54] **HIGHLY-EFFICIENT COMPOSITE DRILL BIT FOR FORMATION DIFFICULT TO DRILL IN DEEP WELL**
[54] **FORET MIXTE HAUTE EFFICACITE DESTINE A UNE FORMATION DIFFICILE A FORER DANS UN PUIT PROFOND**
[72] LIU, QINGYOU, CN
[72] CAI, MINGJIE, CN
[72] MAO, LIANGJIE, CN
[73] SOUTHWEST PETROLEUM UNIVERSITY, CN
[73] CHENGDU UNIVERSITY OF TECHNOLOGY, CN
[85] 2019-07-30
[86] 2019-01-24 (PCT/CN2019/072903)
[87] (WO2020/062741)
[30] CN (201811126683.X) 2018-09-26

[11] **3,051,368**
[13] C

[51] **Int.Cl. B66F 11/04 (2006.01) B66C 23/90 (2006.01) E04G 1/24 (2006.01) F15B 15/08 (2006.01)**
[25] EN
[54] **PRESSURE BASED LOAD SENSING SYSTEM**
[54] **SYSTEME DE DETECTION DE CHARGE BASE SUR LA PRESSION**
[72] BAFILE, LOUIS A., US
[72] SMYLY, JAMES N., US
[72] POWERS, AARON A., US
[72] KOTLANGER, BRENDAN, US
[73] JLG INDUSTRIES, INC., US
[85] 2019-07-23
[86] 2018-01-24 (PCT/US2018/014963)
[87] (WO2018/140439)
[30] US (62/450,274) 2017-01-25

[11] **3,051,550**
[13] C

[51] **Int.Cl. B64F 1/02 (2006.01) E01C 9/00 (2006.01)**
[25] EN
[54] **ENGINEERED MATERIAL ARRESTING SYSTEM AND METHODS FOR FORMING SAME**
[54] **SYSTEME D'ARRET A MATERIAU MODIFIE ET SES PROCEDES DE FORMATION**
[72] BARSOTTI, MATTHEW, US
[72] JONES, CLIFF, US
[72] HADJIOANNOU, MICHALIS, US
[72] PURYEAR, JOHN, US
[73] RUNWAY SAFE IPR AB, SE
[85] 2019-07-24
[86] 2018-03-05 (PCT/IB2018/051411)
[87] (WO2018/158756)
[30] US (62/466,922) 2017-03-03

[11] **3,051,618**
[13] C

[51] **Int.Cl. B32B 15/01 (2006.01) C21D 1/70 (2006.01) H01F 3/04 (2006.01) H01F 27/25 (2006.01) H01F 41/02 (2006.01)**
[25] EN
[54] **COMPOSITE MATERIAL FOR A STATOR STACK AND ROTOR STACK**
[54] **MATERIAU COMPOSITE POUR PAQUET STATORIQUE ET ROTORIQUE**
[72] LEWE, TOBIAS, DE
[72] TIETZ, MARCO, DE
[72] DREWES, STEPHAN, DE
[72] GRUNDEN, PHILIPP, DE
[72] TELGER, KARL, DE
[72] MUELLER, JOHANN, DE
[72] KAHVECI, ABDULLAH, DE
[73] THYSSENKRUPP STEEL EUROPE AG, DE
[73] THYSSENKRUPP AG, DE
[85] 2019-07-25
[86] 2017-03-03 (PCT/EP2017/055059)
[87] (WO2018/157943)

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[11] **3,053,405**
[13] C

[51] **Int.Cl. G01N 33/24 (2006.01) G01N 35/00 (2006.01) G01N 1/38 (2006.01) G01N 1/40 (2006.01) G01N 21/35 (2014.01) G01N 33/28 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR REAL-TIME SPECTROPHOTOMETRIC QUANTIFICATION OF CRUDE OIL**

[54] **SYSTEMES ET PROCEDES DE QUANTIFICATION SPECTROPHOTOMETRIQUE EN TEMPS REEL DE PETROLE BRUT**

[72] KOSYNKIN, DMITRY, SA

[72] ALASKAR, MOHAMMED, SA

[73] SAUDI ARABIAN OIL COMPANY, SA

[85] 2019-08-12

[86] 2018-03-09 (PCT/US2018/021643)

[87] (WO2018/165493)

[30] US (15/454,979) 2017-03-09

[11] **3,054,482**
[13] C

[51] **Int.Cl. G02C 7/02 (2006.01) G02C 7/06 (2006.01)**

[25] EN

[54] **PROGRESSIVE SPECTACLE LENS HAVING A VARIABLE REFRACTIVE INDEX AND METHOD FOR THE DESIGN AND PRODUCTION THEREOF**

[54] **VERRE DE LUNETTES PROGRESSIF PRESENTANT UN INDICE DE REFRACTION VARIABLE ET PROCEDE DE FABRICATION DUDIT VERRE**

[72] KELCH, GERHARD, DE

[72] MENKE, CHRISTOPH, DE

[72] WIETSCHORKE, HELMUT, DE

[73] CARL ZEISS VISION INTERNATIONAL GMBH, DE

[85] 2019-08-23

[86] 2018-01-19 (PCT/EP2018/000026)

[87] (WO2018/134037)

[30] EP (17152384.8) 2017-01-20

[11] **3,054,813**
[13] C

[51] **Int.Cl. G06F 16/27 (2019.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR WRITING SERVICE DATA INTO BLOCK CHAIN AND METHOD FOR DETERMINING SERVICE SUBSET**

[54] **PROCEDE ET APPAREIL D'ECRITURE DE DONNEES DE SERVICE DANS UNE CHAINE DE BLOCS ET PROCEDE DE DETERMINATION D'UN SOUS-ENSEMBLE DE SERVICES**

[72] QIU, HONGLIN, CN

[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY

[85] 2019-07-23

[86] 2018-02-26 (PCT/CN2018/077286)

[87] (WO2018/157778)

[30] CN (201710116539.7) 2017-02-28

[11] **3,055,368**
[13] C

[51] **Int.Cl. B03D 1/00 (2006.01)**

[25] EN

[54] **METHOD OF MEASURING A SLURRY USING A NON-REPRESENTATIVE SAMPLE**

[54] **PROCEDE DE MESURE D'UNE BOUE A L'AIDE D'UN ECHANTILLON NON REPRESENTATIF**

[72] LIU, YIJUN, US

[72] LENART, PHILIP J., US

[72] MARR, MICHAEL A., CA

[73] IMPERIAL OIL RESOURCES LIMITED, CA

[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US

[86] (3055368)

[87] (3055368)

[22] 2019-09-13

[11] **3,057,088**
[13] C

[51] **Int.Cl. H04N 21/435 (2011.01) H04L 29/06 (2006.01) H04N 21/431 (2011.01)**

[25] EN

[54] **SERVICE GUIDE ENCAPSULATION**

[54] **ENCAPSULATION D'UN GUIDE DE SERVICE**

[72] DESHPANDE, SACHIN G., US

[73] SHARP KABUSHIKI KAISHA, JP

[86] (3057088)

[87] (3057088)

[22] 2016-01-13

[62] 2,973,464

[30] US (62/105,605) 2015-01-20

[11] **3,057,807**
[13] C

[51] **Int.Cl. A61M 1/16 (2006.01) A61M 1/34 (2006.01) B01D 61/24 (2006.01) B01D 61/28 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR CONDUCTING HEMODIALYSIS AND HEMOFILTRATION**

[54] **SYSTEME ET PROCEDE POUR REALISER UNE HEMODIALYSE ET UNE HEMOFILTRATION**

[72] ROBINSON, THOMAS P., US

[72] FULKERSON, BARRY, US

[72] MISHELEVICH, DAVID, US

[72] RUSSELL, T. JOSEPH, US

[72] GHIDOLI, DANIELE, US

[72] CLEMENS, CHARLES, E., US

[72] BRAIG, JAMES R., US

[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US

[86] (3057807)

[87] (3057807)

[22] 2008-11-28

[62] 2,960,103

[30] US (60/990,959) 2007-11-29

[30] US (61/021,962) 2008-01-18

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[11] **3,059,335**
[13] C

[51] **Int.Cl. A01C 15/00 (2006.01) A01C 3/06 (2006.01)**
[25] EN
[54] **MANURE SPREADER IMPROVEMENTS**
[54] **AMELIORATIONS A UN EPANDEUR DE FUMIER**
[72] GRYWACHESKI, SHELDON J., CA
[72] JORDAN, RONALD G., CA
[72] KRAINE, ADAM J. J., CA
[72] LITTLE, DOUGLAS, CA
[72] WESTCOTT, WAYNE GORDON, CA
[73] DUTCH BLACKSMITH SHOP LTD., CA
[86] (3059335)
[87] (3059335)
[22] 2017-10-18
[62] 2,982,904

[11] **3,060,805**
[13] C

[51] **Int.Cl. B60P 1/28 (2006.01) B62D 33/08 (2006.01)**
[25] EN
[54] **TRANSPORT DECK FRAME WITH SEPARATE TILT AND DUMP PIVOT CONNECTIONS**
[54] **CHASSIS DE PLATEFORME DE TRANSPORT DOTEE DE CONNEXIONS SEPARÉES POUR L'INCLINAISON ET LE PIVOT DE DECHARGEMENT**
[72] PENNER, DOUGLAS, CA
[73] PENNER, DOUGLAS, CA
[86] (3060805)
[87] (3060805)
[22] 2014-02-19
[62] 2,843,463
[30] US (61/767,335) 2013-02-21

[11] **3,061,427**
[13] C

[51] **Int.Cl. G06F 21/53 (2013.01) G06F 21/62 (2013.01) G06F 16/27 (2019.01)**
[25] EN
[54] **PROCESSING BLOCKCHAIN DATA BASED ON SMART CONTRACT OPERATIONS EXECUTED IN A TRUSTED EXECUTION ENVIRONMENT**
[54] **TRAITEMENT DE DONNEES DE CHAINE DE BLOCS SUR LA BASE D'OPERATIONS SUR CONTRATS INTELLIGENTS EXECUTEES DANS UN ENVIRONNEMENT D'EXECUTION DE CONFIANCE**
[72] WEI, CHANGZHENG, CN
[72] YAN, YING, CN
[72] ZHAO, BORAN, CN
[72] SONG, XUYANG, CN
[72] DU, HUABING, CN
[73] ADVANCED NEW TECHNOLOGIES CO., LTD., KY
[85] 2019-10-24
[86] 2019-04-03 (PCT/CN2019/081180)
[87] (WO2019/120327)

[11] **3,065,478**
[13] C

[51] **Int.Cl. F25D 19/00 (2006.01) F25D 11/00 (2006.01) F25D 29/00 (2006.01) G05D 23/19 (2006.01)**
[25] EN
[54] **REFRIGERATED, THERMALLY INSULATED, COLLAPSIBLE COVER SYSTEM, ASSEMBLY AND METHOD OF USING TO TRANSPORT PERISHABLE PRODUCTS**
[54] **SYSTEME DE COUVERTURE PLIABLE, THERMIQUEMENT ISOLE, REFRIGERE, ENSEMBLE ET PROCEDE D'UTILISATION POUR TRANSPORTER DES PRODUITS PERISSABLES**
[72] KENNEALLY, KEITH, US
[73] KENNEALLY, KEITH, US
[85] 2019-11-28
[86] 2018-05-31 (PCT/IB2018/053866)
[87] (WO2018/220562)
[30] US (62/513,193) 2017-05-31

[11] **3,067,989**
[13] C

[51] **Int.Cl. G08B 29/18 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR DETERMINING SENSOR DATA RELIABILITY AT AN INCIDENT SCENE FOR REAL-TIME AND POST-INCIDENT PROCESSING**
[54] **PROCEDE ET APPAREIL PERMETTANT DE DETERMINER LA FIABILITE DE DONNEES DE CAPTEUR SUR UNE SCENE D'INCIDENT POUR UN TRAITEMENT EN TEMPS REEL ET APRES UN INCIDENT**
[72] REITSMA, KATRIN, US
[72] SCHULER, FRANCESCA, US
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2019-12-19
[86] 2018-05-29 (PCT/US2018/034860)
[87] (WO2019/005388)
[30] US (15/635,939) 2017-06-28

[11] **3,074,497**
[13] C

[51] **Int.Cl. E21B 43/34 (2006.01) B01D 53/14 (2006.01) B01D 53/52 (2006.01) B01D 53/62 (2006.01) B65G 5/00 (2006.01)**
[25] EN
[54] **CARBON DIOXIDE REMOVAL FROM PRODUCED GASES OF HEAVY OIL IN SITU RECOVERY PROCESSES USING AQUEOUS EXTRACTION**
[54] **ELIMINATION DU DIOXYDE DE CARBONE DANS LES GAZ PRODUITS PAR DES PROCEDES DE RECUPERATION D'HUILE LOURDE SUR PLACE PAR EXTRACTION AQUEUSE**
[72] HARANDI, MOHSEN N., US
[72] YAZDI, ALIREZA ZEHTAB, CA
[72] DUNN, JAMES A., CA
[72] ESMAEILI, PAYMAN, CA
[72] WIATR, STEVE, CA
[72] HEAD, BRIAN, CA
[72] KABIR, MOHAMMAD, CA
[73] EXXONMOBIL UPSTREAM RESEARCH COMPANY, US
[73] IMPERIAL OIL RESOURCES LIMITED, CA
[86] (3074497)
[87] (3074497)
[22] 2020-03-04

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[11] **3,074,691**
[13] C

[51] **Int.Cl. H04W 28/12 (2009.01) H04L 1/08 (2006.01) H04W 80/02 (2009.01) H04W 88/08 (2009.01)**

[25] EN

[54] **PACKET DUPLICATION ACTIVATION SIGNALING**

[54] **SIGNALISATION D'ACTIVATION DE DUPLICATION DE PAQUETS**

[72] PARK, KYUNGMIN, US

[72] DINAN, ESMAEL, US

[72] BABAEI, ALIREZA, US

[72] JEON, HYOUNGSUK, US

[72] ZHOU, HUA, US

[73] OFINNO, LLC, US

[85] 2020-03-03

[86] 2018-09-28 (PCT/US2018/053533)

[87] (WO2019/067970)

[30] US (62/564,738) 2017-09-28

[30] US (62/564,720) 2017-09-28

[11] **3,075,345**
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01) G06F 16/903 (2019.01)**

[25] EN

[54] **LOGISTICS VERIFICATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE VERIFICATION LOGISTIQUE**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[86] (3075345)

[87] (3075345)

[22] 2014-09-12

[62] 2,988,800

[11] **3,075,351**
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01)**

[25] EN

[54] **LOGISTICS VERIFICATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE VERIFICATION LOGISTIQUE**

[72] SHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[86] (3075351)

[87] (3075351)

[22] 2014-09-12

[62] 2,988,800

[11] **3,075,380**
[13] C

[51] **Int.Cl. G06Q 10/08 (2012.01)**

[25] EN

[54] **LOGISTICS VERIFICATION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE VERIFICATION LOGISTIQUE**

[72] ZHANG, YI, CN

[73] 10353744 CANADA LTD., CA

[86] (3075380)

[87] (3075380)

[22] 2014-09-12

[62] 2,988,800

[11] **3,075,709**
[13] C

[51] **Int.Cl. G01L 5/00 (2006.01) H04W 4/38 (2018.01) F04B 49/00 (2006.01) G01C 9/00 (2006.01) G01L 3/00 (2006.01) G01M 13/00 (2019.01) F04B 47/02 (2006.01)**

[25] EN

[54] **OIL-WELL PUMP INSTRUMENTATION DEVICE AND SURFACE CARD GENERATION METHOD**

[54] **DISPOSITIF D'INSTRUMENTATION DE POMPE DE Puits DE PETROLE ET PROCEDE DE GENERATION DE CARTE DE SURFACE**

[72] FYFE, KELLY, CA

[72] FYFE, KIPLING WILLIAM, CA

[72] WILLIAMS, THOMAS RICHARD, CA

[73] 4III INNOVATIONS INC., CA

[85] 2020-03-12

[86] 2018-09-12 (PCT/IB2018/001161)

[87] (WO2019/053513)

[30] US (62/557,627) 2017-09-12

[30] IB (PCT/IB2018/052969) 2018-04-30

[30] US (62/675,137) 2018-05-22

[11] **3,076,598**
[13] C

[51] **Int.Cl. C22B 23/00 (2006.01) C22B 3/06 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01)**

[25] EN

[54] **METHOD FOR SEPARATING COPPER, NICKEL, AND COBALT**

[54] **PROCEDE DE SEPARATION DE CUIVRE, DE NICKEL ET DE COBALT**

[72] HIGAKI, TATSUYA, JP

[72] TAKENOUCHI, HIROSHI, JP

[72] KOBAYASHI, HIROSHI, JP

[72] ASANO, SATOSHI, JP

[73] SUMITOMO METAL MINING CO., LTD., JP

[85] 2020-03-20

[86] 2018-09-11 (PCT/JP2018/033683)

[87] (WO2019/082533)

[30] JP (2017-204697) 2017-10-23

[11] **3,078,228**
[13] C

[51] **Int.Cl. C12N 15/74 (2006.01) C12N 9/04 (2006.01) C12N 9/10 (2006.01) C12P 7/62 (2006.01)**

[25] EN

[54] **PRODUCTION OF POLYHYDROXYBUTYRATE IN WOOD-LJUNGDAHL MICROORGANISMS**

[54] **PRODUCTION DE POLYHYDROXYBUTYRATE DANS DES MICRO-ORGANISMES WOOD-LJUNGDAHL**

[72] TAPPEL, RYAN CHRISTOPHER, US

[72] BEHRENDORFF, JAMES BRUCE YARNTON HAYCOCK, US

[72] KOEPKE, MICHAEL, US

[72] MARCELLIN, ESTEBAN, US

[72] LEMGRUBER, RENATO DE SOUZA PINTO, US

[72] VALGEPEA, KASPAR, US

[72] NIELSEN, LARS, US

[73] LANZATECH, INC., US

[85] 2020-04-01

[86] 2018-10-04 (PCT/US2018/054473)

[87] (WO2019/071052)

[30] US (62/568,127) 2017-10-04

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[11] **3,078,411**

[13] C

- [51] **Int.Cl. B05B 3/16 (2006.01)**
[25] EN
[54] **TWIN BOOM SPRINKLER**
[54] **ARROSEUR A DOUBLE RAMPE**
[72] DAVIE, TRENT F., CA
[72] DICKIE, ROBERT G., CA
[73] DAVIE, TRENT F., CA
[85] 2020-04-03
[86] 2017-10-04 (PCT/CA2017/051185)
[87] (WO2018/064768)
[30] US (15/287,809) 2016-10-07

[11] **3,078,887**

[13] C

- [51] **Int.Cl. H04B 7/185 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR
OPTIMIZING SATELLITE
GATEWAY DIVERSITY**
[54] **SYSTEME ET PROCEDE
D'OPTIMISATION DE DIVERSITE
DE PASSERELLE SATELLITE**
[72] POTTER, ROBERT, US
[72] LEFEBURE, JEAN MARC, US
[72] SHANKAR, ROOPA, US
[72] DAUGHTRIDGE, STUART, US
[73] KRATOS INTEGRAL HOLDINGS,
LLC, US
[85] 2020-04-07
[86] 2018-10-19 (PCT/US2018/056684)
[87] (WO2019/079705)
[30] US (62/575,270) 2017-10-20

[11] **3,079,888**

[13] C

- [51] **Int.Cl. B21D 28/24 (2006.01) H01M
50/174 (2021.01) B21D 28/04 (2006.01)
B21D 43/00 (2006.01) B21D 45/00
(2006.01) B26D 5/12 (2006.01)**
[25] EN
[54] **LEAD ACID BATTERY CASE
PUNCH AND SENSOR**
[54] **POINCON D'ENCEINTE DE
BATTERIE AU PLOMB ET
CAPTEUR**
[72] GILMOUR, JIM, US
[73] FARMER MOLD AND MACHINE
WORKS, INC., US
[85] 2020-04-21
[86] 2019-01-04 (PCT/US2019/012400)
[87] (WO2019/136286)
[30] US (62/613,955) 2018-01-05

[11] **3,079,971**

[13] C

- [51] **Int.Cl. G09F 19/12 (2006.01) G09F
9/37 (2006.01) G09F 13/00 (2006.01)
G09F 13/30 (2006.01) G09F 19/02
(2006.01)**
[25] EN
[54] **CONTROL SYSTEM FOR
ROTATING DISPLAY**
[54] **SYSTEMES DE COMMANDE D'UN
DISPOSITIF D'AFFICHAGE
ROTATIF**
[72] ONUKI, MAKOTO, JP
[73] LIFE IS STYLE CO.,LTD., JP
[85] 2020-04-22
[86] 2018-10-23 (PCT/JP2018/039291)
[87] (WO2019/087857)
[30] JP (2017-213310) 2017-11-02

[11] **3,080,598**

[13] C

- [51] **Int.Cl. H04W 56/00 (2009.01) H04B
7/06 (2006.01)**
[25] EN
[54] **METHOD OF LIMITING
FREQUENCY OVERSHOOT IN A
TIMING RECOVERY LOOP**
[54] **PROCEDE POUR LIMITER UNE
SUROSCILLATION DE LA
FREQUENCE DANS UNE BOUCLE
DE DELAI DE RECUPERATION**
[72] CARLSON, BRIAN R., US
[72] MCINTYRE, JAMES, US
[73] HARRIS GLOBAL
COMMUNICATIONS, INC., US
[86] (3080598)
[87] (3080598)
[22] 2020-05-11
[30] US (16/423,997) 2019-05-28

[11] **3,080,660**

[13] C

- [51] **Int.Cl. B02C 9/02 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR
COMMUNUTING BULK
MATERIAL GRAINS**
[54] **DISPOSITIF ET PROCEDE POUR
LE HACHAGE DE CEREALES EN
VRAC**
[72] KUNZLE, SIMON, CH
[72] RICKENBACH, DANIEL, CH
[73] BUHLER AG, CH
[85] 2020-04-28
[86] 2018-10-29 (PCT/EP2018/079567)
[87] (WO2019/086375)
[30] EP (17199189.6) 2017-10-30
[30] EP (18202393.7) 2018-10-24

[11] **3,090,396**

[13] C

- [51] **Int.Cl. A61B 17/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR
SEALING A VASCULAR
PUNCTURE**
[54] **APPAREIL ET METHODES
SERVANT A OBTURER UNE
PONCTION VASCULAIRE**
[72] HUNDERTMARK, RONALD, US
[72] UCHIDA, ANDY H., US
[72] ZILVERSMIT, MOSHE, US
[72] FISCELLA, DAVID L., US
[72] FELL, BRANDON, US
[72] KU, VINCENT, US
[72] GUYER, CURT, US
[72] REPP, RICHARD, US
[72] SPONSEL, MARK, US
[73] ACCESSCLOSURE, INC., US
[86] (3090396)
[87] (3090396)
[22] 2013-03-19
[62] 2,867,601
[30] US (61/615,202) 2012-03-23
[30] US (61/707,797) 2012-09-28
[30] US (61/799,315) 2013-03-15

[11] **3,091,869**

[13] C

- [51] **Int.Cl. C30B 23/08 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR
MOLECULAR BEAM EPITAXY**
[54] **APPAREIL ET PROCEDE POUR
EPITAXIE PAR FAISCEAU
MOLECULAIRE**
[72] NAJAFI-YAZDI, ALIREZA, CA
[72] GEORGES, WILLIAM, CA
[73] ANYON SYSTEMS INC., CA
[85] 2020-08-20
[86] 2019-02-21 (PCT/CA2019/050212)
[87] (WO2019/161498)
[30] US (62/633,549) 2018-02-21

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[11] **3,095,671**
[13] C

[51] **Int.Cl. A45F 5/00 (2006.01) H04B
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(2006.01) A47G 29/02 (2006.01) F16M
13/02 (2006.01) H04W 88/02 (2009.01)**

[25] EN
[54] **ADJUSTABLE MOBILE DEVICE
HANGER**
[54] **SUPPORT POUR APPAREIL
MOBILE REGLABLE**

[72] NAWAS, EDMOND, CA
[73] NAWAS, EDMOND, CA
[85] 2020-10-27
[86] 2020-03-24 (PCT/CA2020/050385)
[87] (3095671)
[30] US (US16/709,883) 2019-12-10

[11] **3,096,309**
[13] C

[51] **Int.Cl. C07C 29/147 (2006.01) C07C
29/132 (2006.01) C07C 29/136
(2006.01) C07C 29/151 (2006.01)
C07C 331/04 (2006.01)**

[25] EN
[54] **CATALYTIC CONVERSION OF
CARBON DIOXIDE TO
METHANOL**
[54] **CONVERSION CATALYTIQUE DU
DIOXYDE DE CARBONE EN
METHANOL**

[72] ABDUR-RASHID, KAREEM, CA
[72] JIA, WENLI, CA
[72] ABDUR-RASHID, KAMALUDDIN,
CA
[73] KARE CHEMICAL TECHNOLOGIES
INC., CA
[85] 2020-10-06
[86] 2019-04-01 (PCT/IB2019/052669)
[87] (WO2019/193483)
[30] US (62/653,896) 2018-04-06

[11] **3,096,475**
[13] C

[51] **Int.Cl. C07C 2/84 (2006.01) B01J
19/24 (2006.01) B01J 21/06 (2006.01)
B01J 21/08 (2006.01) B01J 21/10
(2006.01)**

[25] EN
[54] **METHOD AND REACTOR FOR
OXIDATIVE COUPLING OF
METHANE**
[54] **PROCEDE ET REACTEUR POUR
COUPLAGE OXYDANT DU
METHANE**

[72] SARSANI, SAGAR, US
[72] WEST, DAVID, US
[72] BALAKOTAIAH, VEMURI, US
[72] GU, TIAN, US
[73] SABIC GLOBAL TECHNOLOGIES
B.V., NL
[85] 2020-10-07
[86] 2019-05-02 (PCT/US2019/030329)
[87] (WO2019/213352)
[30] US (62/665,663) 2018-05-02

[11] **3,099,941**
[13] C

[51] **Int.Cl. A62C 2/06 (2006.01) A62C
3/16 (2006.01)**

[25] EN
[54] **REFRACTORY ENCLOSURES
FOR HIGH DENSITY ENERGY
STORAGE SYSTEMS**
[54] **ENCEINTES REFRACTAIRES
POUR SYSTEMES DE STOCKAGE
D'ENERGIE A HAUTE DENSITE**

[72] RODRIGUEZ, ALONSO P., US
[73] RODRIGUEZ, ALONSO P., US
[85] 2020-11-11
[86] 2018-06-19 (PCT/US2018/038321)
[87] (WO2018/236898)
[30] US (62/523,255) 2017-06-22

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[21] **3,055,343**
[13] A1
[51] **Int.Cl. A63B 71/06 (2006.01) A63B 60/42 (2015.01) H04W 4/38 (2018.01) A63B 24/00 (2006.01) A63B 71/00 (2006.01) G01D 21/02 (2006.01) G08C 17/02 (2006.01)**
[25] EN
[54] **A SYSTEM, DEVICE AND METHOD OF IDENTIFYING AND CLASSIFYING STICK PATTERNS IN A SPORTING EVENT**
[54] **SYSTEME, DISPOSITIF ET METHODE DE DETERMINATION ET DE CLASSIFICATION DE TECHNIQUES DE BATON PENDANT UN EVENEMENT SPORTIF**
[72] DAHLSTEDT, MIKE, CA
[71] DRIVE HOCKEY ANALYTICS, CA
[22] 2019-10-08
[41] 2021-04-08

[21] **3,055,796**
[13] A1
[51] **Int.Cl. G09B 23/32 (2006.01)**
[25] EN
[54] **PORTABLE MULTIFUNCTIONAL ANATOMICAL MODEL FOR MEDICAL TRAINING**
[54]
[72] REEH, CHAD DOUGLAS, CA
[71] REEH, CHAD DOUGLAS, CA
[22] 2019-10-09
[41] 2021-04-09

[21] **3,056,372**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01) H04J 11/00 (2006.01)**
[25] EN
[54] **THE DUAL PILOT SEQUENCES SCHEME FOR COMMUNICATIONS SYSTEMS**
[54] **SCHEMA DE SEQUENCES A DOUBLES PILOTES POUR DES SYSTEMES DE COMMUNICATION**
[72] ALJALAI, ABDELMALIK, CA
[71] ALJALAI, ABDELMALIK, CA
[22] 2019-10-10
[41] 2021-04-10

[21] **3,057,626**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01) G06N 20/00 (2019.01) G06K 9/62 (2006.01)**
[25] EN
[54] **EVENT PREDICTION USING CLASSIFIER AS COARSE FILTER**
[54] **PREDICTION D'EVENEMENT UTILISANT UN CLASSIFICATEUR COMME FILTRE BRUT**
[72] MATHEW, SANGEETA, CA
[72] BRAZIUNAS, DARIUS, CA
[72] CHOW, ARTHUR CARROLL, CA
[72] TAO, LING, CA
[72] JAGGA, ARUN VICTOR, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,636**
[13] A1
[51] **Int.Cl. H04W 88/02 (2009.01) H04W 4/90 (2018.01)**
[25] EN
[54] **PENDANTCELL.COM**
[54] **PENDANTCELL.COM**
[72] UNKNOWN, XX
[71] DUNLOP, ROBERT, CA
[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,637**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING RECURRENT TRANSFER PATTERNS**
[54] **SYSTEMES ET METHODES DE DETERMINATION DE MOTIFS DE TRANSFERT RECURRENENTS**
[72] MATHEW, SANGEETA, CA
[72] BRAZIUNAS, DARIUS, CA
[72] CHOW, ARTHUR CARROLL, CA
[72] TAO, LING, CA
[72] JAGGA, ARUN VICTOR, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,638**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2012.01)**
[25] EN
[54] **DYNAMIC USER INTERFACE FOR NAVIGATING USER ACCOUNT DATA**
[54] **INTERFACE UTILISATEUR DYNAMIQUE POUR LA CONSULTATION DE DONNEES DE COMPTE UTILISATEUR**
[72] SARIR, NASIM, CA
[72] ZHANG, YANFANG, CA
[72] HU, MEI, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-10-04
[41] 2021-04-04

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[21] **3,057,646**
[13] A1

[51] **Int.Cl. G16H 10/60 (2018.01) G06Q 40/08 (2012.01) G06F 16/903 (2019.01) G06K 9/62 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PROCESSING DATABASE QUERIES**

[54] **SYSTEMES ET METHODES DE TRAITEMENT DES INTERROGATIONS D'UNE BASE DE DONNEES**

[72] MARSHALL, STUART, CA
[72] HARDY, MARK ANDREW, CA
[71] THE TORONTO-DOMINION BANK, CA

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,654**
[13] A1

[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/90 (2019.01) G06K 9/18 (2006.01)**

[25] EN

[54] **TRANSFER OF DATA OF ANY SORT, FROM ONE DATABASE TO ANOTHER DATABASE IN REAL TIME, VIA THE SCAN OF A QR CODE.**

[54] **TRANSFERT DE TOUTES SORTES DE DONNEES A UNE AUTRE EN TEMPS REEL AU MOYEN DU BALAYAGE D'UN CODE QR**

[72] CHAND, RACHELLE ASHLEY, CA
[71] CHAND, RACHELLE ASHLEY, CA

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,655**
[13] A1

[51] **Int.Cl. F17D 5/00 (2006.01) G06K 9/62 (2006.01)**

[25] EN

[54] **REMOTE MONITORING METHOD USING IMAGE PROCESSING INTELLIGENCE**

[54] **METHODE DE SURVEILLANCE A DISTANCE UTILISANT L'INTELLIGENCE ARTIFICIELLE ET LE TRAITEMENT D'IMAGE**

[72] CUNNINGHAM, IAN, CA
[72] RAMSTEAD, BARRETT, CA
[72] MENDIZABAL, RICARDO, CA
[71] WAVE9 TECHNOLOGY INC., CA

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,659**
[13] A1

[51] **Int.Cl. G01F 23/00 (2006.01)**

[25] EN

[54] **APPARATUS FOR SUPPORTING SENSOR ABOVE OPEN TOP OF CONTAINMENT STRUCTURE TO MONITOR LOADING OF PARTICULATE MATERIAL INTO SAME**

[54] **APPAREIL POUR SUSPENDRE UN CAPTEUR AU-DESSOUS D'UNE DESSUS OUVERT D'UNE STRUCTURE DE CONFINEMENT POUR SURVEILLER LE CHARGEMENT D'UN MATERIAU PARTICULAIRE DANS LADITE STRUCTURE**

[72] WOHLGEMUTH, ROLAND, CA
[71] WOHLGEMUTH, ROLAND, CA

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,661**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) H04L 9/32 (2006.01) G06F 16/903 (2019.01)**

[25] EN

[54] **AUTHORIZATION CONTROL NETWORK AND METHOD OF VALIDATING AN AUTHORIZATION REQUEST**

[54] **RESEAU DE CONTROLE DES AUTORISATIONS ET METHODE DE VALIDATION D'UNE DEMANDE D'AUTORISATION**

[72] GANDHI, RAJEEV KUMAR, CA
[72] COLMENAR-MIRANDA, NOEMI, CA

[72] PINNOCK, DANIELLE MARIE, CA
[72] MCLELLAN, WILLIAM JOSEPH, CA
[72] SZVATH, RICHARD TITUS, CA
[72] KAMINSKAYA, LILIYA, CA
[72] AMARAL, JENNIFER, CA
[71] THE TORONTO-DOMINION BANK, CA

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,663**
[13] A1

[51] **Int.Cl. G06Q 40/02 (2012.01)**

[25] EN

[54] **IDENTIFYING RECURRENT TRANSFER PATTERNS FOR AN ACCOUNT FROM PATTERNS FOR OTHER ACCOUNTS**

[54] **DETERMINATION DE MOTIFS DE TRANSFERT RECURRENTS DANS UN COMPTE SELON LES MOTIFS D'AUTRES COMPTES**

[72] MATHEW, SANGEETA, CA
[72] BRAZIUNAS, DARIUS, CA
[72] CHOW, ARTHUR CARROLL, CA
[72] TAO, LING, CA
[72] JAGGA, ARUN VICTOR, CA
[71] THE TORONTO-DOMINION BANK, CA

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,671**
[13] A1

[51] **Int.Cl. B60Q 1/34 (2006.01) B60Q 1/44 (2006.01) B60Q 1/50 (2006.01)**

[25] EN

[54] **INDICATION SYSTEM**

[54] **SYSTEME D'INDICATION**

[72] HO, HUNG-HSIN, CN
[71] MORR GLOBAL CO., LTD., CN

[22] 2019-10-04
[41] 2021-04-04

[21] **3,057,673**
[13] A1

[51] **Int.Cl. C01B 32/00 (2017.01) B01D 53/32 (2006.01) B01D 53/62 (2006.01) C02F 1/34 (2006.01)**

[25] EN

[54] **PRODUCTION OF CARBON BY REDUCING CARBON DIOXIDE BY MEANS OF INDUCED CAVITATION**

[54] **PRODUCTION DE CARBONE PAR LA REDUCTION DU DIOXYDE DE CARBONE AU MOYEN D'UNE CAVITATION INDUITE**

[72] BRYDEN, JOHN H., CA
[71] BRYDEN, JOHN H., CA

[22] 2019-10-04
[41] 2021-04-04

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[21] **3,057,772**
[13] A1

[51] **Int.Cl. E21B 36/04 (2006.01) F16L 53/30 (2018.01) E21B 43/24 (2006.01) F04B 53/08 (2006.01) F17D 1/18 (2006.01) F04B 47/02 (2006.01)**

[25] EN

[54] **HEATING AND ANTI-WAXING APPARATUS AND DEVICE FOR REDUCING VISCOSITY UNDER THE OIL WELL PUMP**

[54] **APPAREIL DE CHAUFFAGE ET ANTICIRAGE, ET DISPOSITIF POUR REDUIRE LA VISCOSITE SOUS LA POMPE A HUILE DU Puits**

[72] XIE, WEI, CA
[71] XIE, WEI, CA
[22] 2019-10-07
[41] 2021-04-07

[21] **3,057,774**
[13] A1

[51] **Int.Cl. G06F 40/30 (2020.01) G06Q 40/08 (2012.01) G06N 3/02 (2006.01) G06N 3/08 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTOMATICALLY ASSESSING FAULT IN RELATION TO MOTOR VEHICLE COLLISIONS**

[54] **SYSTEMES ET METHODES POUR L'EVALUATION AUTOMATIQUE DE LA RESPONSABILITE PAR RAPPORT A DES COLLISIONS D'AUTOMOBILES**

[72] SKALJIN, ROBERT, CA
[72] RIVARD, JILLIAN MARGARET PIGOT, CA
[72] WISWELL, JUSTIN, CA
[72] FLYNN, CAMERON, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-10-07
[41] 2021-04-07

[21] **3,057,785**
[13] A1

[51] **Int.Cl. B60R 13/10 (2006.01)**

[25] EN

[54] **SHOCK ABSORBING ELASTOMERIC NORTH AMERICAN FRONT LICENSE PLATE FRAME**

[54] **CADRE DE PLAQUE D'IMMATRICULATION NORD-AMERICAINE AVANT FAIT D'UN MATERIAU ELASTOMERIQUE AMORTISSEUR**

[72] ROBIN GUPTA BHAYA, CA
[71] ROBIN GUPTA BHAYA, CA
[22] 2019-10-08
[41] 2021-04-08

[21] **3,057,799**
[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01) G06F 21/62 (2013.01) G06F 16/24 (2019.01)**

[25] EN

[54] **SECURE MANAGEMENT AND PROVISIONING OF INTERACTION DATA USING PERMISSIONED DISTRIBUTED LEDGERS**

[54] **GESTION ET APPROVISIONNEMENT SECURISES DE DONNEES D'INTERACTION AU MOYEN DE REGISTRES DISTRIBUES AUTORISES**

[72] COLLINSON, JOHN MICHAEL, CA
[72] COONEY, CHRISTOPHER WILLIAM, CA
[72] VOUTOUR, RUSSELL, CA
[72] DEMERS, MARIE-JULIE, CA
[72] JAGGA, ARUN VICTOR, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2019-10-07
[41] 2021-04-07

[21] **3,057,911**
[13] A1

[51] **Int.Cl. F16L 37/091 (2006.01)**

[25] EN

[54] **PUSH-FIT PIPE FITTING**

[54] **RACCORD DE TUYAUTERIE POUSSOIR**

[72] SIMON, JIS, CA
[71] IPEX TECHNOLOGIES INC., CA
[22] 2019-10-08
[41] 2021-04-08

[21] **3,057,924**
[13] A1

[51] **Int.Cl. H04N 19/167 (2014.01) H04N 21/4728 (2011.01) H04N 19/162 (2014.01) H04N 19/17 (2014.01) G06T 9/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO OPTIMIZE THE SIZE OF A VIDEO RECORDING OR VIDEO TRANSMISSION BY IDENTIFYING AND RECORDING A REGION OF INTEREST IN A HIGHER DEFINITION THAN THE REST OF THE IMAGE THAT IS SAVED OR TRANSMITTED IN A LOWER DEFINITION FORMAT**

[54] **SYSTEME ET METHODE D'OPTIMISATION DE LA TAILLE D'UN ENREGISTREMENT VIDEO OU D'UNE TRANSMISSION VIDEO EN CERNANT ET ENREGISTRANT UNE REGION D'INTERET DANS UNE DEFINITION SUPERIEURE AU RESTE DE L'IMAGE SAUVEGARDEE OU TRANSMISE DANS UNE DEFINITION INFERIEURE**

[72] UNKNOWN, XX
[71] DE LA FUENTE SANCHEZ, ALFONSO F., CA
[71] CABRERA VARGAS, DANY A., CA
[22] 2019-10-08
[41] 2021-04-08

[21] **3,057,929**
[13] A1

[51] **Int.Cl. A47H 1/04 (2006.01) E05D 15/06 (2006.01) E06B 9/24 (2006.01)**

[25] EN

[54] **WINDOW CURTAIN**

[54] **RIDEAU DE FENETRE**

[72] CHUANG, SHAN-CHI, TW
[71] ABO WINDOW FASHION CORP., US
[71] CHUANG, SHAN-CHI, TW
[22] 2019-10-08
[41] 2021-04-08

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[21] **3,057,930**
[13] A1

[51] **Int.Cl. B65H 5/20 (2006.01) B65H 3/06 (2006.01) B65H 5/08 (2006.01)**

[25] EN

[54] **ROBOTIC MANIPULATION OF FABRIC PIECES USING A DROPPING-ROLLER-TYPE PICKER**

[54]

[72] ST-AMAND, MICHEL, CA

[71] ST-AMAND, MICHEL, CA

[22] 2019-10-09

[41] 2021-04-09

[21] **3,057,931**
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01) H04N 21/80 (2011.01) G06T 5/00 (2006.01) H04N 5/272 (2006.01)**

[25] EN

[54] **METHOD TO IDENTIFY AND SEE A PERSON IN A PUBLIC SECURITY CAMERA FEED WITHOUT BEEN ABLE TO SEE THE REST OF THE PEOPLE OR TAGS**

[54] **METHODE D'IDENTIFICATION ET DE VISUALISATION D'UNE PERSONNE SUR UN ENREGISTREMENT DE CAMERA DE SECURITE SANS POUVOIR VOIR D'AUTRES BALISES**

[72] DE LA FUENTE SANCHEZ, ALFONSO F., CA

[72] CABRERA VARGAS, DANY A., CA

[71] DE LA FUENTE SANCHEZ, ALFONSO F., CA

[71] CABRERA VARGAS, DANY A., CA

[22] 2019-10-08

[41] 2021-04-08

[21] **3,057,933**
[13] A1

[51] **Int.Cl. A47C 1/032 (2006.01) A47C 1/023 (2006.01)**

[25] EN

[54] **CHAIR HAVING TILTING SEAT AND BACK**

[54] **FAUTEUIL AYANT UN SIEGE ET UN DOSSIER BASCULANTS**

[72] PEARSE, STEVEN, CA

[71] PEARSE, STEVEN, CA

[22] 2019-10-08

[41] 2021-04-08

[21] **3,057,934**
[13] A1

[51] **Int.Cl. C08L 23/04 (2006.01) B29C 39/04 (2006.01) C08F 2/04 (2006.01) C08F 4/16 (2006.01) C08F 4/6592 (2006.01)**

[25] EN

[54] **FLEXIBLE ROTATIONALLY MOLDED ARTICLE**

[54] **ARTICLE ROTOMOULE SOUPLE**

[72] BELLEHUMEUR, CELINE, CA

[72] FERAYDOON, MARYAM, CA

[72] PHINNEY, AMY, CA

[71] NOVA CHEMICALS CORPORATION, CA

[22] 2019-10-08

[41] 2021-04-08

[21] **3,057,937**
[13] A1

[51] **Int.Cl. H04L 12/711 (2013.01) B60R 16/00 (2006.01) H04L 12/40 (2006.01) H04L 29/14 (2006.01)**

[25] EN

[54] **REDUNDANT ETHERNET NETWORK AND SENSOR PROCESSING SYSEM FOR VEHICLES AND RELATED METHODS**

[54] **RESEAU ETHERNET REDONDANT ET SYSTEME DE TRAITEMENT DE CAPTEUR POUR VEHICULES, ET METHODES CONNEXES**

[72] GOURARI, ALEXANDRE, CA

[72] WOJTKOWICZ, JOHN JOSEPH, CA

[71] NEUTRON AUTOMOTIVE CONTROLS INC., CA

[22] 2019-10-08

[41] 2021-04-08

[21] **3,057,939**
[13] A1

[51] **Int.Cl. G10L 15/25 (2013.01) H04H 20/10 (2009.01) H04N 21/81 (2011.01) G10L 17/26 (2013.01) G10L 25/87 (2013.01) G10L 15/02 (2006.01) G10L 15/20 (2006.01) G10L 17/00 (2013.01)**

[25] EN

[54] **METHOD THAT REDACTS ZONES OF INTEREST IN AN AUDIO FILE USING COMPUTER VISION AND MACHINE LEARNING**

[54] **METHODE DE CAVIARDAGE DE ZONES D'INTERET DANS UN FICHIER AUDIO AU MOYEN DE LA VISION PAR ORDINATEUR ET DE L'APPRENTISSAGE AUTOMATIQUE**

[72] DE LA FUENTE SANCHEZ, ALFONSO F., CA

[72] CABRERA VARGAS, DANY A., CA

[71] DE LA FUENTE SANCHEZ, ALFONSO F., CA

[71] CABRERA VARGAS, DANY A., CA

[22] 2019-10-08

[41] 2021-04-08

[21] **3,058,053**
[13] A1

[51] **Int.Cl. A45C 13/30 (2006.01) A45F 5/00 (2006.01)**

[25] EN

[54] **TRAVEL STRAP SYSTEM**

[54]

[72] LAVOIE, SYLVIE CECILE, CA

[71] LAVOIE, SYLVIE CECILE, CA

[22] 2019-10-09

[41] 2021-04-09

[30] US (16/596,884) 2019-10-09

**Demandes canadiennes mises à la disponibilité du public
4 avril 2021 au 10 avril 2021**

[21] **3,058,063**
[13] A1

[51] **Int.Cl. C09K 8/80 (2006.01) C04B 35/622 (2006.01)**
[25] EN
[54] **PROCESS OF CERAMIC PROPPANT PRODUCTION FROM IRON ORE AND/OR STERILE ORE FROM ITS EXPLOITATION AND/OR TAILINGS FROM ITS BENEFICIATION WITH AGGLOMERATION OF FINE AND ULTRAFINE PARTICLES - PCF**

[54]
[72] MENDES, JEFFERSON JANURARIO, BR
[72] ARAUJO, FERNANDO GABRIEL DA SILVA, BR
[71] DJM EMPREENDIMENTOS MINERAIS E CONSULTORIA EM ENGENHARIA LTDA, BR
[71] ACTT TECNOLOGIA E TREINAMENTOS AMFG LTDA, BR
[22] 2019-10-09
[41] 2021-04-09

[21] **3,058,073**
[13] A1

[51] **Int.Cl. E01C 23/22 (2006.01) E01C 23/14 (2006.01)**
[25] EN
[54] **A GROUND SURFACE MARKER AND METHOD FOR SURFACE MAKING**

[54]
[72] ROSS, GRAHAM ALLAN, NZ
[72] LYNCH, JASON, NZ
[71] ROSS, GRAHAM ALLAN, NZ
[71] LYNCH, JASON, NZ
[22] 2019-10-09
[41] 2021-04-09

[21] **3,058,074**
[13] A1

[51] **Int.Cl. B60R 25/00 (2013.01) B60R 25/102 (2013.01)**
[25] EN
[54] **COLLISION AND ACCIDENT RECORDING SYSTEM (CARS)**
[54] **SYSTEME D'ENREGISTREMENT DES COLLISIONS ET DES ACCIDENTS (VOITURES)**

[72] UNKNOWN, XX
[71] GIBSON, STEPHEN, CA
[22] 2019-10-09
[41] 2021-04-09

[21] **3,058,123**
[13] A1

[51] **Int.Cl. H03M 1/66 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR A SUPER-RESOLUTION DIGITAL-TO-ANALOG CONVERTER BASED ON REDUNDANT SENSING**

[54]
[72] YANG, ZHI, US
[72] NGUYEN, ANH TUAN, US
[72] LUU, DIU KHUE, US
[72] XU, JIAN, US
[71] REGENTS OF THE UNIVERSITY OF MINNESOTA, US
[22] 2019-10-09
[41] 2021-04-09

[21] **3,058,208**
[13] A1

[51] **Int.Cl. A61K 8/9789 (2017.01) A45D 97/00 (2011.01) A45D 44/12 (2006.01) A61Q 1/02 (2006.01)**
[25] FR
[54] **COLOUR CORRECTOR FOR RED SKIN MADE WITH MATCHA GREEN TEA OR OTHER ORGANIC PRODUCT RICH IN GREEN PIGMENT, INCLUDING BUT NOT LIMITED TO GREEN MATCHA TEA**

[54] **CORRECTEUR DE TEINT POUR LA PEAU A ROUGEUR A BASE DE THE VERT MATCHA OU AUTRE PRODUIT ORGANIQUE RICHE EN PIGMENT VERT, INCLUSIVEMENT MAIS PAS EXCLUSIVEMENT LE THE VERT MATCHA**

[72] INCONNU, XX
[71] CORETCHI PASAT, TATIANA, CA
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,232**
[13] A1

[51] **Int.Cl. A43B 3/16 (2006.01) A43B 3/20 (2006.01) A43B 7/00 (2006.01) A43C 15/00 (2006.01)**
[25] FR
[54] **UNKNOWN**
[54] **INCONNU**

[72] INCONNU, XX
[71] HALLAOUI, YOUSSEF, CA
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,292**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH41W6**

[54]
[72] FISCHER, DAVID B., US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,297**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MAIZE INBRED PH471G**

[54]
[72] KEVERN, THOMAS CRAIG, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,300**
[13] A1

[51] **Int.Cl. B63B 17/00 (2006.01) B32B 3/08 (2006.01) B32B 27/00 (2006.01) B63B 23/64 (2006.01) D06N 7/00 (2006.01)**
[25] EN
[54] **UNIVERSAL COVER**

[54]
[72] BAIRD, DAVID, US
[72] STITH, CALEB, US
[71] DOWCO, INC., US
[22] 2019-10-10
[41] 2021-04-09
[30] US (16/597,823) 2019-10-09

**Canadian Applications Open to Public Inspection
April 4, 2021 to April 10, 2021**

[21] **3,058,307**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X90M123**
[54]
[72] COLEMAN, TRAVIS KORRY, US
[72] FABRIZIUS, MARTIN A., US
[72] GARCIA, GUSTAVO MARCELO, US
[72] WALCH, MATTEW DAVID, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,308**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X95M201**
[54]
[72] CHANDLER, MICHAEL ADAM, US
[72] SCHAEFFER, CHRISTOPHER MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,310**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X85M510**
[54]
[72] KING, STEVEN PAUL, US
[72] MONTPETIT, JEAN-MARC, US
[72] WALCH, MATTHEW DAVID, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,313**
[13] A1

[51] **Int.Cl. B65D 5/16 (2006.01) B65D 5/70 (2006.01) B65D 17/32 (2006.01)**

[25] EN
[54] **SHELF READY SHIPPER WITH GRAVITY FEED OPENING**
[54] **BOITE D'EXPEDITION PRETE AU DETAIL COMPRENANT UNE OUVERTURE D'ALIMENTATION PAR GRAVITE**
[72] HAWKINS, TIMOTHY B., US
[72] LANG, THOMAS F., US
[71] WESTROCK SHARED SERVICES, LLC, US
[22] 2019-10-10
[41] 2021-04-08
[30] US (16/595562) 2019-10-08

[21] **3,058,315**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X00P560**
[54]
[72] SMALLEY, MATTHEW DAVID, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,318**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X75M830**
[54]
[72] COLEMAN, TRAVIS KORRY, US
[72] HENDRICKX, LEONARDUS JOHANNES MARIA, US
[72] MAHMOOD, TARIQ, CA
[72] MONTPETIT, JEAN-MARC, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,321**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH42V3**
[54]
[72] CHANDLER, MICHAEL ADAM, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,323**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH2TBV**
[54]
[72] SCOTT, LORI KARYN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,324**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X95M228**
[54]
[72] ARBELBIDE, MARTIN, US
[72] SCHAEFER, CHRISTOPHER MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

**Demandes canadiennes mises à la disponibilité du public
4 avril 2021 au 10 avril 2021**

[21] **3,058,325**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE INBRED PH42SY**
[54]
[72] MONTPETIT, JEAN-MARC, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,339**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH41VW**
[54]
[72] JINES, MICHAEL PHILLIP, US
[72] STIRLING, LEAH VIESSELMANN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,392**
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/00 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN
[54] **MAIZE INBRED PH42JS**
[54]
[72] FABRIZIUS, MARTIN A., US
[72] ZHANG, JULIA XIULING, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,327**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X05M984**
[54]
[72] BRENNER, EVERTON ALEN, US
[72] CAROLINE, MARIO ROSARIO, JR., US
[72] LEE, TRAVIS J., US
[72] WARDYN, BRANDON MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,379**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X85K002**
[54]
[72] KING, STEVEN PAUL, US
[72] SCOTT, LORI KARYN, US
[72] WALCH, MATTHEW DAVID, US
[72] WILLIAM, HARINDRA MANILAL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,398**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH4358**
[54]
[72] HENDRICKX, LEONARDUS JOHANNES MARIA, US
[72] MAHMOOD, TARIQ, CA
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,331**
[13] A1

[51] **Int.Cl. G01S 17/58 (2006.01) G01S 17/06 (2006.01)**

[25] EN
[54] **METHOD AND DUAL FREQUENCY LIDAR SYSTEM FOR DETERMINING DISTANCE AND VELOCITY OF TARGET**
[54]
[72] ONORI, DANIEL, CA
[72] AZANA, JOSE, CA
[71] INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE, CA
[22] 2019-10-09
[41] 2021-04-09

[21] **3,058,390**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X85M512**
[54]
[72] GARCIA, GUSTAVO MARCELO, US
[72] KING, STEVEN PAUL, US
[72] MONTPETIT, JEAN-MARC, US
[72] WALCH, MATTHEW DAVID, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

**Canadian Applications Open to Public Inspection
April 4, 2021 to April 10, 2021**

[21] **3,058,403**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X08M626**
[54]
[72] CROWLEY, NICHOLAS ADAM, US
[72] CUNNYNGHAM, CHARLES THOMAS, US
[72] FOX, RUSSELL, US
[72] GADLAGE, MARK JACOB, US
[72] HEFFNER, ELLIOTT LEE, US
[72] HENKE, GARY EDWARD, US
[72] HENRY, THOMAS RUSSELL, US
[72] HOLLEY, RANDALL NEWTON, US
[72] LIRA, SARA JANE, US
[72] PERUGINI, LEANDRO DANIEL, US
[72] POHL, DANIEL JOSEPH, US
[72] SRNIC, GORAN, US
[72] STEINKE, JENNIFER ANN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,405**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH42YG**
[54]
[72] GROTE, EDWIN MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,408**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH42KN**
[54]
[72] COLEMAN, TRAVIS KORRY, US
[72] GARCIA, GUSTAVO MARCELO, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,411**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X85M507**
[54]
[72] KING, STEVEN PAUL, US
[72] SCOTT, LORI KARYN, US
[72] WALCH, MATTHEW DAVID, US
[72] WILLIAM, HARINDRA MANILAL, CA
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,417**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X80M875**
[54]
[72] GARCIA, GUSTAVO MARCELO, US
[72] KING, STEVEN PAUL, US
[72] MONTPETIT, JEAN-MARC, US
[72] SCOTT, LORI KARYN, US
[72] WALCH, MATTHEW DAVID, US
[72] WILLIAM, HARINDRA MANILAL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,418**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH435M**
[54]
[72] ZHANG, JULIA XIULING, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

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4 avril 2021 au 10 avril 2021

[21] **3,058,424**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X80M877**
[54]
[72] COLEMAN, TRAVIS KORRY, US
[72] HENDRICKX, LEONARDUS JOHANNES MARIA, US
[72] MAHMOOD, TARIQ, CA
[72] SCOTT, MATTHEW DAVID, US
[72] WILLIAM, HARINDRA MANILAL, CA
[72] WALCH, MATTHEW DAVID, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,428**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X95M231**
[54]
[72] FABRIZIUS, MARTIN A., US
[72] SCHAEFER, CHRISTOPHER MICHAEL, US
[72] ZHANG, JULIA XIULING, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,430**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X03M280**
[54]
[72] GROTE, EDWIN MICHAEL, US
[72] RIEDEMAN, ERIC SCOTT, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,431**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X03M275**
[54]
[72] CHANDLER, MICHAEL ADAM, US
[72] FISCHER, DAVID B., US
[72] GROTE, EDWIN MICHAEL, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,435**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH4257**
[54]
[72] HEFFNER, ELLIOT LEE, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,439**
[13] A1

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

[25] EN
[54] **MAIZE HYBRID X08M656**
[54]
[72] FISCHER, DAVID B., US
[72] JINES, MICHAEL PHILLIP, US
[72] STIRLING, LEAH VIESSELMANN, US
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,441**
[13] A1

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

[25] EN
[54] **MAIZE INBRED PH42RF**
[54]
[72] SCOTT, LORI KARYN, US
[72] WALCH, MATTHEW DAVID, US
[72] WILLIAM, HARINDRA MANILAL, CA
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2019-10-10
[41] 2021-04-10

[21] **3,058,447**
[13] A1

[51] **Int.Cl. G02B 27/01 (2006.01) G09G 5/377 (2006.01) H04N 5/262 (2006.01) H04N 7/18 (2006.01)**

[25] EN
[54] **A SYSTEM FOR GENERATING AND DISPLAYING INTERACTIVE MIXED-REALITY VIDEO ON MOBILE DEVICES**
[54]
[72] BAIC, MILAN, CA
[71] SPACECARD INC., CA
[22] 2019-10-10
[41] 2021-04-10

**Canadian Applications Open to Public Inspection
April 4, 2021 to April 10, 2021**

[21] **3,058,713**
[13] A1

[51] **Int.Cl. E21B 47/10 (2012.01) E21B 43/26 (2006.01) E21B 47/09 (2012.01)**

[25] EN

[54] **METHOD FOR MONITORING AND CONTROLLING CLUSTER EFFICIENCY**

[54]

[72] SWAMINATHAN, TIRUMANI N., US

[72] SHETTY, DINESH ANANDA, US

[71] HALLIBURTON ENERGY SERVICES, INC., US

[22] 2019-10-15

[41] 2021-04-09

[30] US (16/597,440) 2019-10-09

[21] **3,060,167**
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/12 (2006.01)**

[25] EN

[54] **MULTI-PORT INJECTION SYSTEM**

[54] **SYSTEME D'INJECTION MULTIORIFICES**

[72] BLACK, IAN C., US

[72] DRISCOLL, ALEC J., US

[72] BLACK, CHARLES D., US

[72] HAYDEN, STEVEN E., US

[71] FLOWCORE SYSTEMS, LLC, US

[22] 2019-10-25

[41] 2021-04-08

[30] US (16596053) 2019-10-08

[21] **3,060,681**
[13] A1

[51] **Int.Cl. G06Q 20/10 (2012.01) G06Q 20/14 (2012.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR AUTOMATICALLY CONFIGURING A TRANSACTION SYSTEM**

[54]

[72] JONES, CHRISTOPHER MARK, CA

[72] THOMAS, JOHN WILLIAM, CA

[72] CHALIFOUX, MARC, CA

[72] PRENDERGAST, JONATHAN JOSEPH, CA

[72] DELAVEAGA, MICHAEL THOMAS, CA

[72] KHAN, MOHAMMAD FAHAD, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2019-10-29

[41] 2021-04-09

[30] US (16/597,121) 2019-10-09

[21] **3,060,697**
[13] A1

[51] **Int.Cl. H04L 9/32 (2006.01) H04L 12/58 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR ESTABLISHING A TRUSTED SESSION**

[54] **SYSTEME ET METHODE D'ETABLISSEMENT D'UNE SESSION FIABLE**

[72] NAVARRO, MIGUEL, CA

[72] SUTTER, LEVI, CA

[72] CATANA, LINO, CA

[72] GOODMAN, JONATHAN, CA

[72] ABBAS, MOHAMED, CA

[71] THE TORONTO-DOMINION BANK, CA

[22] 2019-10-29

[41] 2021-04-08

[30] US (16/595,950) 2019-10-08

[21] **3,062,057**
[13] A1

[51] **Int.Cl. C09K 8/584 (2006.01) C09K 8/588 (2006.01) E21B 41/00 (2006.01) E21B 43/28 (2006.01)**

[25] EN

[54] **WELL TREATMENT COMPOSITIONS AND METHODS COMPRISING CERTAIN MICROEMULSIONS AND CERTAIN CLAY CONTROL ADDITIVES EXHIBITING SYNERGISTIC EFFECT OF ENHANCING CLAY SWELLING PROTECTION AND PERSISTENCY**

[54]

[72] TRABELSI, SIWAR, US

[71] FLOTEK CHEMISTRY, LLC, US

[22] 2019-11-20

[41] 2021-04-10

[30] US (16/598,989) 2019-10-10

[21] **3,062,931**
[13] A1

[51] **Int.Cl. F25B 9/04 (2006.01) A47C 7/74 (2006.01) B04C 5/04 (2006.01) B04C 5/081 (2006.01) F25B 29/00 (2006.01)**

[25] EN

[54] **MULTI-STAGE VORTEX TUBE ASSEMBLY FOR LOW PRESSURE AND LOW FLOW APPLICATIONS**

[54] **ASSEMBLAGE DE TUBE A TOURBILLON MULTI-ETAPE POUR DES APPLICATIONS A FAIBLE PRESSION ET A BAS DEBIT**

[72] STAHL, PETER A., US

[72] WILSON, CHRISTOPHER, US

[71] B/E AEROSPACE, INC., US

[22] 2019-11-27

[41] 2021-04-08

[30] US (16/595,683) 2019-10-08

[21] **3,063,052**
[13] A1

[51] **Int.Cl. H01H 85/046 (2006.01) H01L 49/02 (2006.01)**

[25] EN

[54] **INERT ENVIRONMENT FUSIBLE LINKS**

[54] **ELEMENTS FUSIBLES EN ENVIRONNEMENT INERTE**

[72] BACKMAN, ROGER ALAN, US

[72] POTASEK, DAVID P., US

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-11-26

[41] 2021-04-04

[30] US (16/593,714) 2019-10-04

[21] **3,063,946**
[13] A1

[51] **Int.Cl. G02B 27/00 (2006.01) F41G 7/22 (2006.01) G02B 26/02 (2006.01) G02F 1/133 (2006.01) G06T 5/00 (2006.01)**

[25] EN

[54] **TERMINAL-IMAGING SEEKER USING A SPATIAL LIGHT MODULATOR BASED CODED-APERTURE MASK**

[54] **CHERCHEUR D'IMAGE EN PHASE TERMINALE UTILISANT UN MASQUE A OUVERTURE CODEE FONDE SUR UN MODULATEUR SPATIAL DE LUMIERE**

[72] GRAHAM, JASON, US

[71] ROSEMOUNT AEROSPACE INC., US

[22] 2019-12-04

[41] 2021-04-08

[30] US (16/596,340) 2019-10-08

Demandes canadiennes mises à la disponibilité du public
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[21] **3,064,930**
[13] A1

[51] **Int.Cl. F17D 5/06 (2006.01) F17D 5/02 (2006.01)**

[25] EN

[54] **A SYSTEM AND METHOD OF SENSING FOR PETROLEUM, OIL, AND GAS LEAKS USING OPTICAL DETECTION**

[54] **SYSTEME ET METHODE DE DETECTION DE FUITES DE PETROLE, D'HUILE ET DE GAZ AU MOYEN DE LA DETECTION OPTIQUE**

[72] KUKREJA, SUNIL L., US

[72] MANTESE, JOSEPH V., US

[72] LIOBE, JOHN, US

[71] SENSORS UNLIMITED, INC., US

[22] 2019-12-11

[41] 2021-04-04

[30] US (16/593,808) 2019-10-04

[21] **3,065,261**
[13] A1

[51] **Int.Cl. B29C 45/26 (2006.01) B29C 70/30 (2006.01)**

[25] EN

[54] **METHOD OF MANUFACTURING A COMPOSITE COMPONENT**

[54] **METHODE DE FABRICATION D'UNE COMPOSANTE COMPOSITE**

[72] BERNARD, JAMES, GB

[72] TAYLOR, ALEXANDER D., GB

[72] LIDDEL, PAUL DANIEL, GB

[72] PETHICK, JON, GB

[72] LITESH, JASHEN, GB

[72] MATZAKOU, MYRTO, GB

[72] GRAY, NATE, US

[71] CROMPTON TECHNOLOGY GROUP LIMITED, GB

[22] 2019-12-13

[41] 2021-04-04

[30] EP (19386040.0) 2019-10-04

[21] **3,079,467**
[13] A1

[51] **Int.Cl. A63G 21/20 (2006.01) A63G 9/00 (2006.01) B61B 3/00 (2006.01) B61B 12/00 (2006.01)**

[25] EN

[54] **AMUSEMENT RIDE SYSTEM**

[54]

[72] MARTIN, RICHARD, CA

[72] BEAUDIN, JEFFREY, CA

[72] LOCKHART, ROBERT, CA

[72] MCNAIR, WILLIAM NATHANIEL, CA

[72] COOPMAN, DEREK, CA

[72] GILL, BRIAN RICHARD, CA

[72] BARLOW, DAVID ANTHONY, CA

[72] ROY, DAVID, CA

[71] DYNAMO INDUSTRIES INC., CA

[22] 2020-04-23

[41] 2021-04-10

[30] US (62/913,274) 2019-10-10

[21] **3,065,210**
[13] A1

[51] **Int.Cl. B29C 45/17 (2006.01) B29C 45/14 (2006.01) C08J 5/04 (2006.01)**

[25] EN

[54] **COMPOSITE COMPONENTS WITH IMPACT DETECTION**

[54] **COMPOSANTES COMPOSITES A DETECTION DE CHOC**

[72] BERNARD, JAMES, GB

[72] TAYLOR, ALEXANDER D., GB

[72] LIDDEL, PAUL DANIEL, GB

[72] LITESH, JASHEN, GB

[72] MATZAKOU, MYRTO, GB

[72] GRAY, NATHANIEL M., GB

[71] CROMPTON TECHNOLOGY GROUP LIMITED, GB

[22] 2019-12-13

[41] 2021-04-04

[30] EP (19386041.8) 2019-10-04

[21] **3,065,263**
[13] A1

[51] **Int.Cl. F16L 9/133 (2006.01) F16L 9/128 (2006.01)**

[25] EN

[54] **FIBRE REINFORCED POLYMER COMPOSITE PIPES**

[54] **TUYAUX COMPOSITES POLYMERES RENFORCES DE FIBRES**

[72] BERNARD, JAMES, GB

[72] LIDDEL, PAUL DANIEL, GB

[72] PETHICK, JON, GB

[71] CROMPTON TECHNOLOGY GROUP LIMITED, GB

[22] 2019-12-13

[41] 2021-04-07

[30] EP (19275091.7) 2019-10-07

[21] **3,080,562**
[13] A1

[51] **Int.Cl. A24C 5/40 (2006.01) A47J 42/34 (2006.01) A47J 42/40 (2006.01)**

[25] EN

[54] **GRINDING AND DISPENSING ASSEMBLY**

[54] **ENSEMBLE DE BROYAGE ET DE DISTRIBUTION**

[72] BEDOYA, OLMES S., CA

[71] BEDOYA, OLMES S., CA

[22] 2020-05-08

[41] 2021-04-07

[30] US (16/867,701) 2020-05-06

[30] US (62/911,881) 2019-10-07

[21] **3,065,253**
[13] A1

[51] **Int.Cl. B64C 25/26 (2006.01) E05B 83/00 (2014.01) B64C 25/30 (2006.01)**

[25] EN

[54] **ELECTRICAL OPERATED LANDING GEAR LOCK SYSTEM**

[54]

[72] KULKARNI, SAGAR, IN

[72] VASUDEVA, VISHWANATH, IN

[72] MARAPPAN, BHARATH, IN

[71] GOODRICH CORPORATION, US

[22] 2019-12-13

[41] 2021-04-09

[30] US (16/701,657) 2019-12-03

[30] IN (201941040815) 2019-10-09

[21] **3,075,148**
[13] A1

[51] **Int.Cl. A01G 9/02 (2018.01)**

[25] EN

[54] **METHODS AND CONFIGURATIONS OF A GROWING CONTAINER**

[54]

[72] TREVILLE, LOUIS-CHRISTOPHE, CA

[71] GGMJ CULTIVATION INC, CA

[22] 2020-03-10

[41] 2021-04-09

[30] US (16/597,834) 2019-10-09

**Canadian Applications Open to Public Inspection
April 4, 2021 to April 10, 2021**

[21] **3,082,668**
[13] A1

[51] **Int.Cl. B01J 20/24 (2006.01) C01B 32/50 (2017.01) B01D 53/02 (2006.01) B01D 53/62 (2006.01) B01D 53/64 (2006.01)**

[25] EN

[54] **PLANT FIBER-BASED INTELLIGENT ADSORPTIVE MATERIAL WITH MULTI-ADSORPTION SITES AND PREPARATION METHOD AND USE THEREOF**

[54] **MATIERE ABSORBANTE INTELLIGENTE A BASE DE FIBRES VEGETALES COMPORANT DE MULTIPLES SITES D'ABSORPTION, METHODE DE PREPARATION ET UTILISATION**

[72] ZHU, HONGXIANG, CN
[72] HE, HUI, CN
[72] QIN, CHENGRONG, CN
[72] WANG, LEI, CN
[72] ZHOU, HANG, CN
[72] CHEN, ZHIPING, CN
[72] QUAN, ZONGYAN, CN
[71] GUANGXI UNIVERSITY, CN
[22] 2020-06-09
[41] 2021-04-08
[30] CN (202010291732.6) 2020-04-14

[21] **3,083,321**
[13] A1

[51] **Int.Cl. B60R 9/10 (2006.01)**

[25] EN

[54] **BIKE CARRIER**

[54] **SUPPORT A VELOS**

[72] GADDIS, JON L., US
[71] J.R. SETINA MANUFACTURING CO., INC., US
[22] 2020-06-11
[41] 2021-04-08
[30] US (62/912,332) 2019-10-08

[21] **3,088,459**
[13] A1

[51] **Int.Cl. B01F 3/22 (2006.01) B01F 3/08 (2006.01) B01F 7/24 (2006.01) B01F 15/02 (2006.01) B01F 15/06 (2006.01) C04B 41/46 (2006.01) E01C 19/08 (2006.01)**

[25] EN

[54] **POTHOLE PATCHER WITH EMULSION OIL REJUVENATOR SYSTEM**

[54]

[72] DILLINGHAM, HAROLD W., US
[71] H. D. INDUSTRIES, INC., US
[22] 2020-07-30
[41] 2021-04-09
[30] US (16/597,547) 2019-10-09

[21] **3,089,773**
[13] A1

[51] **Int.Cl. G01N 21/25 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PERFORMING CALIBRATION OF A DISSOLVED GAS ANALYSIS SYSTEM USING OPTICAL ABSORPTION SPECTROSCOPY AND USE THEREOF IN AN APPARATUS AND METHOD FOR PERFORMING DISSOLVED GAS ANALYSIS (DGA) ON A PIECE OF ELECTRICAL EQUIPMENT**

[54] **APPAREIL ET METHODE D'ETALONNAGE D'UN SYSTEME D'ANALYSE DES GAZ DISSOUS AU MOYEN DE SPECTROSCOPIE D'ABSORPTION OPTIQUE, UTILISATION CONNEXE DANS UN APPAREIL ET METHODE D'ANALYSE DES GAZ DISSOUS SUR UNE PIECE D'UN MATERIEL ELECTRIQUE**

[72] BRAUER, STEPHAN, CA
[72] LEBEL-BUCHANAN, NICHOLAS, CA
[72] MACGILLIVRAY, ANDREW, CA
[72] MINCU, NICULAE, CA
[72] DE COTRET, SAMUEL RENE, CA
[72] VOINEA, STEFAN, CA
[71] MORGAN SCHAFFER LTD., CA
[22] 2020-08-11
[41] 2021-04-08
[30] US (62/912,485) 2019-10-08

[21] **3,090,079**
[13] A1

[51] **Int.Cl. H04S 3/00 (2006.01) H04R 3/12 (2006.01)**

[25] EN

[54] **AUDIO SYSTEM WITH SOUND-FIELD-TYPE NATURE SOUND EFFECT**

[54]

[72] CHEN, HSI-HSIEN, CN
[71] ECHOWELL ELECTRONIC CO., LTD., CN
[22] 2020-08-14
[41] 2021-04-09
[30] US (16/596,915) 2019-10-09

[21] **3,091,119**
[13] A1

[51] **Int.Cl. B66B 9/00 (2006.01)**

[25] EN

[54] **GREEN ELEVATOR SYSTEM USING WEIGHTLESS ROPS TRACTION SYSTEM AND RELATED APPLICATIONS**

[54] **SYSTEME D'ASCENSEUR VERT UTILISANT UN SYSTEME D'ENTRAINEMENT A CABLES SANS PESANTEUR ET APPLICATIONS CONNEXES**

[72] BERGMAN, GEORGE, CA
[71] BERGMAN, GEORGE, CA
[22] 2020-08-25
[41] 2021-04-06

[21] **3,092,978**
[13] A1

[51] **Int.Cl. A61K 8/891 (2006.01) A61K 8/34 (2006.01) A61Q 17/04 (2006.01)**

[25] EN

[54] **TRANSPARENT SUNSCREEN COMPOSITION**

[54] **COMPOSITION D'ECRAN SOLAIRE TRANSPARENT**

[72] MAGUYON, ELIZABETH, US
[72] SUN, FRANK C., US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[22] 2020-09-14
[41] 2021-04-04
[30] US (16/593040) 2019-10-04

Demandes canadiennes mises à la disponibilité du public
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[21] **3,092,979**
 [13] A1

[51] **Int.Cl. A61K 8/81 (2006.01) A61K 8/02 (2006.01) A61K 8/34 (2006.01) A61K 8/362 (2006.01) A61Q 17/04 (2006.01)**

[25] EN
 [54] **SPRAYABLE SUNSCREEN COMPOSITION**
 [54] **COMPOSITION D'ECRAN SOLAIRE VAPORISABLE**
 [72] MUDYA, NAVYA, US
 [72] SUN, FRANK C., US
 [71] JOHNSON & JOHNSON CONSUMER INC., US
 [22] 2020-09-14
 [41] 2021-04-04
 [30] US (16/593035) 2019-10-04

[21] **3,093,144**
 [13] A1

[51] **Int.Cl. B60P 7/02 (2006.01)**

[25] EN
 [54] **TONNEAU COVER BED RAIL ASSEMBLY WITH CONNECTOR**
 [54] **ENSEMBLE DE RAILS DE COUVRE-CAISSE ET CONNECTEUR**
 [72] QUINTUS, JAMES GERARD, US
 [71] UNDERCOVER, INC., US
 [22] 2020-09-15
 [41] 2021-04-07
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 [71] KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, JP
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 [72] MORRELL, GARN H., US
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 [54] **METHODE ET APPAREIL DE FABRICATION DE MARCHES DE PISCINE AYANT UN MOTIF CORRESPONDANT AU MOTIF DU REVETEMENT DE PISCINE**
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 [54] **APPAREIL ET METHODE DE COMPENSATION THERMIQUE PENDANT LA FABRICATION ADDITIVE**
 [72] SUSNJARA, KENNETH J., US
 [72] SMIDDY, BRIAN S., US
 [72] FUQUAY, JOHN, US
 [72] VAAL, SCOTT G., US
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 [72] MATTEUCCI, RONNIE I., US
 [72] MCDONOUGH, PATRICK JOSEPH, US
 [71] DEER SOLUTIONS LLC, US
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[72] HUBER, ALEXANDER, DE
[72] HAMMERLE, ANDREAS, AT
[71] NITROCHEMIE ASCHAU GMBH, DE
[71] TECCNO TEX GMBH, AT
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[72] DINGELDEIN, MARK S., US
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[54] **SYSTEMS AND METHODS FOR REMOVING LOW FREQUENCY OFFSET COMPONENTS FROM A DIGITAL DATA STREAM**
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[72] MCPHALEN, ERIN C., CA
[71] SCHNEIDER ELECTRIC USA, INC., US
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[54] **LOCALISATION DES ANOMALIES MONOPHASEE ET RETABLISSEMENT POUR UN RESEAU DE DISTRIBUTION ELECTRIQUE**
[72] KELLER, ERICH, US
[72] DIFONZO, NICHOLAS CARMINE, US
[71] G & W ELECTRIC COMPANY, US
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[54] **APPAREIL D'INSERTION A L'UTILISATION AVEC DES MACHINES ROTATIVES**
[72] TRIVEDI, DEEPAK, US
[72] BENNETT, GROVER ANDREW JR., US
[72] MEETHAL, MANOJ KUMAR KOYITHITTA, US
[72] SHADDOCK, DAVID MULFORD, US
[72] GRAHAM, ANDREW CRISPIN, US
[72] LECLERC, STEPHAN PAUL JR., US
[72] KUMAR, SANDEEP, US
[71] GENERAL ELECTRIC COMPANY, US
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[54]
[72] VANDEVEN, MICHAEL, US
[72] YANKE, BRYAN, US
[72] BOMLENY, DUANE, US
[72] BRIMEYER, ALEX, US
[72] PIERSON, JOSUHA R., US
[72] COERS, BRUCE A., US
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[72] WAGATSUMA, TAKASHI, JP
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[54] **MIXING VALVES, VALVE MODULES, AND VALVE MODULE ASSEMBLIES**
[54] **ROBINETS MELANGEURS, MODULES DE ROBINETS ET ENSEMBLES DE MODULES DE ROBINETS**
[72] FISHER, BRYAN, CA
[72] VAN PATTTER, KYLE, CA
[72] DU, XAN VY, CA
[71] MASCO CANADA LIMITED, CA
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[54] **INHIBITEUR DE DIACYLGLYCEROL ACYLTRANSFERASE 2**

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[72] FILIPSKI, KEVIN JAMES, US

[72] FUTATSUGI, KENTARO, US

[72] GARNSEY, MICHELLE RENEE, US

[72] LEE, JACK CHANG HUNG, US

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[54] **APPAREILS ET METHODES D'ADAPTATEUR POUR DES SYSTEMES DE LEVAGE ARTIFICIELS**

[72] FRASER, GARTH JOHN, CA

[72] COYES, CORBIN, CA

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[54] **KADAM, NILESH ANKUSH, IN**

[72] RAUT, SUSHANT, IN

[72] MURAHARI, SAIVARAPRASAD, US

[71] EATON INTELLIGENT POWER LIMITED, IE

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[54] **ADJUSTABLE LOCK FOR BUILDING SURFACE PANEL AND BUILDING SURFACE PANEL CLADDING SYSTEM**

[54] **VERROU AJUSTABLE POUR UN PANNEAU DE SURFACE DE BATIMENT ET SYSTEME DE PLACAGE DE PANNEAUX DE SURFACE DE BATIMENT**

[72] SHAW, ROBERT D., US

[71] CERTAINTEED LLC, US

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[54] **PROVIDING SIMULATED LIGHTING INFORMATION FOR THREE-DIMENSIONAL BUILDING MODELS**

[54] **FOURNITURE DE RENSEIGNEMENTS D'ECLAIRAGE SIMULE POUR DES MODELES DE BATIMENTS EN TROIS DIMENSIONS**

[72] VINCENT, JOSH, US

[72] MOULON, PIERRE, US

[72] BOYADZHIEV, IVAYLO, US

[72] MARUSKA, JOSHUA, US

[71] ZILLOW GROUP, INC., US

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[54] **COMBINATION PLATE AND LATERAL STABILIZERS FOR USE WITH A POST AND A POST SPIKE**

[54] **COMBINAISON D'UNE PLAQUE ET DE STABILISATEURS LATERAUX POUR L'UTILISATION AVEC UN POTEAU ET UN PIEU DE POTEAU**

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[54] **SYSTEMES ET METHODES DE GENERATION INFORMATIQUE DE SYSTEMES D'INTERFACE UTILISATEUR**
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[72] LIZARDO, NATHANIEL PHILIPPE, US
[72] DRAVIS, JORDAN DAVID, US
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[72] LEQUETTE, SAMUEL, FR
[72] MILLARD, THIERRY, FR
[72] JOUAN, EDOUARD, FR
[72] PANNY, ANTHONY, FR
[72] ICHELMANN, BRUNO, FR
[71] ZIMMER BIOMET SPINE, INC., US
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[72] YOO, SANG JIN, KR
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[72] SHOKOUHI, HASSAN, US
[71] NEENAH FOUNDRY COMPANY, US
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[72] ZEITER, NATHAN, US
[72] STEWART, STACEY E., US
[71] POLARIS INDUSTRIES INC., US
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[72] WILLINSKY, AARON B., CA
[71] VISUAL ELEMENTS MANUFACTURING INC., CA
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[54] **FECHALOS, WILLIAM, US**
[72] TELENGATER, ADAM, US
[72] CHEN, SHU-JEN, US
[71] C&C POWER, INC., US
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[54] **INJECTION MOLDING APPARATUS WITH A THERMAL BRIDGE**
[54] **NGUYEN, THANH HUU, US**
[72] SAYER, CHERYL ANN, US
[71] MILACRON LLC, US
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[54] **MODULATION DE L'OPERATION DE RECHAUFFEMENT D'UN SYSTEME CVC**
[72] BLANTON, NORMAN J., US
[72] HUANG, ZHIWEI, US
[71] JOHNSON CONTROLS TECHNOLOGY COMPANY, US
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[54] **LOTTERY TICKET BIN WITH PULL-OUT DRAWER AND TICKET GUIDE CONFIGURATION**

[54]

[72] MASOCOL, TIMOTHY, US

[72] HOLBROOK, JAMES JONATHAN, US

[72] THOMPSON, MARK ANDREW, US

[72] MEJENBORG, STEN

[72] HALLUNDBAEK, US

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[54] **A POLYMERIC TUBE FORMING APPARATUS WITH A MULTI-DIMENSIONAL CONTROL SYSTEM**

[54]

[72] CHRISTIANO, JOHN P., US

[72] BIRON, CHAD ALLEN, US

[72] MACGREGOR, ALEXANDRE, US

[72] WNUK, JOSEPH A., US

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[54] **ACTIVE PIXEL INTRAORAL RADIOLOGICAL IMAGE SENSOR AND ASSOCIATED IMAGE CAPTURE METHOD**

[54]

[72] PAPAIX, CAROLINE, FR

[72] FERREYRE, PIERRE, FR

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[54] **SYSTEM AND METHOD FOR PRIORITIZING TRANSMISSION OF TRADING DATA OVER A BANDWIDTH-CONSTRAINED COMMUNICATION LINK**

[54]

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[71] BANQUE NATIONALE DU CANADA, CA

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[54] **CONNECTEUR ELECTRIQUE**

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[72] TITCOMB, JOHN B., US

[71] R.A. PHILLIPS INDUSTRIES, INC., US

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[54] **SYSTEMS AND METHODS FOR ABATEMENT OF GEAR RATTLE UTILIZING AXIAL DEFLECTION**

[54] **SYSTEMES ET PROCEDES DE REDUCTION DU CLIQUETIS D'ENGRENAGE A L'AIDE D'UNE DEFLEXION AXIALE**

[72] CAMPBELL, SAMUEL W., US

[71] MUNCIE POWER PRODUCTS, INC., US

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[51] **Int.Cl. A01D 34/14 (2006.01) A01D 34/13 (2006.01)**

[25] EN

[54] **BLADES AND KNIVES FOR AGRICULTURAL MACHINES**

[54]

[72] LUTZ, WOLFGANG, AT

[71] GEBRUDER BUSATIS GESELLSCHAFT M.B.H., AT

[22] 2020-10-06

[41] 2021-04-08

[30] AT (A50852/2019) 2019-10-08

[21] **3,095,658**
[13] A1

[51] **Int.Cl. E04H 4/06 (2006.01)**

[25] EN

[54] **POOL COVER ASSEMBLY AND SYSTEMS**

[54]

[72] PETERSON, JOHN THOMAS CARL, US

[72] DALTON, MATHEW, US

[71] LATHAM POOL PRODUCTS, INC., US

[22] 2020-10-07

[41] 2021-04-08

[30] US (62/912,529) 2019-10-08

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[21] **3,095,673**
[13] A1

[51] **Int.Cl. B29C 48/13 (2019.01) B29C 48/92 (2019.01)**
[25] EN
[54] **DEVICE FOR PRODUCING PLASTIC PIPE**
[54]
[72] FIEBIG, CHRISTIAN, DE
[71] UNICOR GMBH, DE
[22] 2020-10-07
[41] 2021-04-09
[30] DE (10 2019 127 168.1) 2019-10-09

[21] **3,095,677**
[13] A1

[51] **Int.Cl. A01D 34/73 (2006.01)**
[25] EN
[54] **ROTATABLE BLADE WITH REPLACEABLE CUTTING EDGES**
[54]
[72] PUNTONI, PATRICK G., US
[71] PUNTONI PRODUCTS LLC, US
[22] 2020-10-07
[41] 2021-04-10
[30] US (62/913,722) 2019-10-10
[30] US (16/729,301) 2019-12-28

[21] **3,095,761**
[13] A1

[51] **Int.Cl. A63B 71/06 (2006.01) A63B 60/42 (2015.01) H04W 4/38 (2018.01) A63B 24/00 (2006.01) A63B 71/00 (2006.01) G01D 21/02 (2006.01) G01S 5/00 (2006.01)**
[25] EN
[54] **SYSTEM, DEVICE AND METHOD FOR IDENTIFYING AND CLASSIFYING STICK PATTERNS IN A SPORTING EVENT**
[54]
[72] DAHLSTEDT, MIKE, CA
[71] DRIVE HOCKEY ANALYTICS, INC., CA
[22] 2020-10-08
[41] 2021-04-08
[30] CA (3055343) 2019-10-08

[21] **3,095,818**
[13] A1

[51] **Int.Cl. G07F 19/00 (2006.01) G06Q 40/02 (2012.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR CONDUCTING ATM TRANSACTIONS**
[54]
[72] PIERCE, TERRY, US
[72] SNIDER, KATHY, US
[71] CU COOPERATIVE SYSTEMS, INC., DBA CO-OP FINANCIAL SERVICES, US
[22] 2020-10-07
[41] 2021-04-08
[30] US (16/595501) 2019-10-08

[21] **3,095,819**
[13] A1

[51] **Int.Cl. A47B 91/06 (2006.01)**
[25] EN
[54] **SURFACE PROTECTION DEVICE AND METHOD OF MOUNTING SAME**
[54]
[72] BUSHEY, BRET L., US
[71] BUSHEY, BRET L., US
[22] 2020-10-09
[41] 2021-04-10
[30] US (62/913388) 2019-10-10
[30] US (17/066774) 2020-10-09

[21] **3,095,823**
[13] A1

[51] **Int.Cl. H02G 7/14 (2006.01)**
[25] EN
[54] **ANYWHERE DAMPER**
[54]
[72] KRANZ, STEVEN, US
[72] PRICE, CHARLES MONROE, III, US
[72] AGNEW, MOREY ROBERT SAMUEL, US
[71] AFL TELECOMMUNICATIONS LLC, US
[22] 2020-10-08
[41] 2021-04-08
[30] US (62/912,367) 2019-10-08
[30] US (17/028,955) 2020-09-22

[21] **3,095,831**
[13] A1

[51] **Int.Cl. A01D 90/10 (2006.01) B60P 1/56 (2006.01) B62D 53/06 (2006.01)**
[25] EN
[54] **GRAIN TRAILER**
[54] **REMORQUE A GRAIN**
[72] MENZ, KELLY L., US
[72] SCHINDLER, JAMES R., US
[72] BRODEUR, BRYAN S., US
[71] TRAIL KING INDUSTRIES, INC., US
[22] 2020-10-07
[41] 2021-04-07
[30] US (62/911,866) 2019-10-07

[21] **3,095,834**
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) H04W 24/08 (2009.01) H04W 60/02 (2009.01) H04L 12/24 (2006.01)**
[25] EN
[54] **NETWORK OUTAGE DETECTION**
[54]
[72] LI, YUBIN, US
[72] HOU, JIONGKUAN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2020-10-08
[41] 2021-04-09
[30] US (16/596,820) 2019-10-09

[21] **3,095,883**
[13] A1

[51] **Int.Cl. F16B 1/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROTECTING PORTIONS OF MATERIAL PROCESSING EQUIPMENT USED IN AGGREGATE INDUSTRY**
[54]
[72] STROUP, DAVID BRYAN, US
[71] TEREX USA, LLC, US
[22] 2020-10-09
[41] 2021-04-10
[30] US (62/913,397) 2019-10-10
[30] US (17/066,725) 2020-10-09

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[21] **3,095,926**
[13] A1

[51] **Int.Cl. B07B 1/46 (2006.01) B07B 1/14 (2006.01)**
[25] EN
[54] **SEPARATING SCREEN CONVEYOR**
[54] **CONVOYEUR A ECRAN SEPARATEUR**
[72] BENJAMINS, JAN, NL
[71] BOLLEGRAAF PATENTS AND BRANDS B.V., NL
[22] 2020-10-09
[41] 2021-04-10
[30] NL (2023991) 2019-10-10

[21] **3,096,107**
[13] A1

[51] **Int.Cl. A01B 73/02 (2006.01)**
[25] EN
[54] **AGRICULTURAL TOOLBAR WITH WING FLEX LOCK**
[54] **TABLIER AGRICOLE A VERROUILLAGE DU PLIAGE DES AILES**
[72] SIVINSKI, JEFFREY ALAN, US
[71] HARVEST INTERNATIONAL, INC., US
[22] 2020-10-13
[41] 2021-04-10
[30] US (62/913,250) 2019-10-10

[21] **3,096,119**
[13] A1

[51] **Int.Cl. G06F 16/958 (2019.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR LINK PREDICTION WITH SEMANTIC ANALYSIS**
[54] **SYSTEME ET METHODE DE PREVISION DE LIEN DANS UNE ANALYSE SEMANTIQUE**
[72] BELEZKO, KOSTYA, CA
[72] MCGOEY, BRECHANN, CA
[71] ROYAL BANK OF CANADA, CA
[22] 2020-10-07
[41] 2021-04-07
[30] US (62/911,672) 2019-10-07

[21] **3,098,025**
[13] A1

[51] **Int.Cl. B27B 15/02 (2006.01) B27B 13/00 (2006.01)**
[25] EN
[54] **PORTABLE SAWMILL WITH FOLDING BED**
[54] **SCIERIE MOBILE AVEC LIT PLIANT**
[72] BRAMLEY, NEIL K., CA
[72] MALCOLM, JOSHUA J., CA
[72] DOHERTY, JEFFREY F., CA
[72] ISMAEL, ANDREAS, CA
[71] WOODLAND MILLS INC., CA
[22] 2020-11-04
[41] 2021-04-06

[21] **3,100,939**
[13] A1

[51] **Int.Cl. B65G 21/12 (2006.01) B65G 19/04 (2006.01) B65G 41/00 (2006.01) B65G 65/28 (2006.01)**
[25] EN
[54] **SLIDE MECHANISM FOR STACKER**
[54] **MECANISME DE GLISSEMENT POUR UN EMPILEUR**
[72] KROL, ANDRZEJ, CA
[71] MCCLOSKEY INTERNATIONAL LIMITED, CA
[22] 2020-11-26
[41] 2021-04-07
[30] US (17/030,798) 2020-09-24

[21] **3,105,258**
[13] A1

[51] **Int.Cl. F21S 4/10 (2016.01) F21K 9/00 (2016.01) H05B 45/00 (2020.01) H05B 45/37 (2020.01) F21V 23/00 (2015.01) H01R 33/22 (2006.01)**
[25] EN
[54] **SCREW MOUNTED LAMP STRING**
[54] **BANDE DE LUMIERE VISSEE**
[72] WU, QINGAN, CN
[72] LIN, XIONGZHONG, CN
[71] ZHANGZHOU GO WIN LIGHTING CO., LTD, CN
[22] 2021-01-07
[41] 2021-04-07
[30] CN (202020033681.2) 2020-01-08

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[51] Int.Cl. F25D 11/00 (2006.01) G06K 9/78 (2006.01)	[51] Int.Cl. A61K 31/375 (2006.01) A23L 33/10 (2016.01) A61K 47/52 (2017.01) A61K 31/19 (2006.01) A61K 31/191 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)	[51] Int.Cl. E01B 27/16 (2006.01) B60L 3/12 (2006.01) E01B 27/17 (2006.01)
[25] EN	[25] EN	[25] EN
[54] A SMART MINI BAR SYSTEM AND METHOD THEREOF	[54] A PHARMACEUTICAL COMPOSITION FOR TREATING CANCER COMPRISING AN IONIC COMPOUND HAVING METAL ION BINDING THERETO	[54] METHOD AND DEVICE FOR CONSOLIDATING A BALLAST BED
[54] SYSTEME DE MINIBAR INTELLIGENT ET PROCEDE CONNEXE	[54] COMPOSITION PHARMACEUTIQUE POUR LE TRAITEMENT DU CANCER COMPRENANT UN COMPOSE IONIQUE DE TYPE A ION METALLIQUE LIE	[54] PROCEDE ET DISPOSITIF POUR COMPACTER UN BALLAST
[72] SENCAN, NIYAZI, TR	[72] PAI, CHAUL MIN, KR	[72] PHILIPP, THOMAS, AT
[72] CIL, MUHAMMET, TR	[71] METAFINES.CO.LTD., KR	[72] DAXBERGER, HARALD, AT
[71] ISM MAKINE ELEKTRIK SANAVI VE TICARET ANONIM SIRKETI, TR	[85] 2021-02-10	[72] AUER, FLORIAN, AT
[85] 2020-10-22	[86] 2019-08-19 (PCT/KR2019/010485)	[71] PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GMBH, AT
[86] 2019-10-04 (PCT/TR2019/050826)	[87] (WO2020/040502)	[85] 2021-03-02
[87] (3097011)	[30] KR (10-2018-0098145) 2018-08-22	[86] 2019-09-25 (PCT/EP2019/075779)
[21] 3,109,298 [13] A1	[21] 3,111,742 [13] A1	[21] 3,113,041 [13] A1
[25] EN	[25] EN	[25] EN
[54] ENCODING AND DECODING METHOD, APPARATUS AND COMMUNICATION SYSTEM	[54] ACTUATING ASSEMBLY FOR WIRE STEERED DEVICE AND WIRE STEERED DEVICE INCLUDING SAME	[54] A POUCH PRODUCT SUITABLE FOR APPLICATION IN AN ORAL CAVITY
[54] METHODE, APPAREIL ET SYSTEME DE COMMUNICATION POUR LE CODAGE ET LE DECODAGE	[54] MECANISME D'ACTIONNEMENT POUR DISPOSITIF A DIRECTION PAR FIL ET DISPOSITIF CONNEXE LE COMPORTANT	[54] PRODUIT EN POCLETTE POUR L'APPLICATION DANS UNE CAVITE ORALE
[72] HUO, JUNYAN, CN	[72] KIEN, TAI, US	[72] SCHJOLIN, EVAGGELOS, SE
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN	[72] AZAR, TOUFIC, CA	[72] TORNE, ERIC BEAUSSANT, SE
[85] 2021-02-16	[72] HIJAZI, AHMAD, LB	[71] SCHJOLIN, EVAGGELOS, SE
[86] 2020-09-25 (PCT/CN2020/117911)	[71] KIEN, TAI, US	[85] 2021-03-23
[87] (3109298)	[71] AZAR, TOUFIC, CA	[86] 2020-09-21 (PCT/EP2020/076333)
[30] US (62/911,166) 2019-10-04	[85] 2021-03-10	[87] (3113041)
	[86] 2020-10-07 (PCT/IB2020/059433)	[30] SE (1951137-7) 2019-10-04
	[87] (3111742)	[30] SE (1951138-5) 2019-10-04
	[30] US (62/912,848) 2019-10-09	

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[21] **3,113,266**
[13] A1

[25] EN
[54] **LINER, TEAT CUP, AND MILKING DEVICE**
[54] **MANCHON, GOBELET TRAYEUR ET MACHINE DE TRAITE**
[72] KONDO, HITOSHI, JP
[72] INUI, YOJI, JP
[71] TOKUYAMA CORPORATION, JP
[85] 2021-03-16
[86] 2020-09-18 (PCT/JP2020/035475)
[87] (3113266)
[30] JP (2019-181844) 2019-10-02

[21] **3,113,295**
[13] A1

[51] **Int.Cl. B22F 3/00 (2021.01) B33Y 10/00 (2015.01) B29C 64/00 (2017.01) B29C 64/165 (2017.01) B22C 9/04 (2006.01) B22C 9/10 (2006.01) B22F 3/10 (2006.01) B22F 3/105 (2006.01) B22F 3/12 (2006.01) B22F 3/14 (2006.01) B22F 3/15 (2006.01) B22F 5/00 (2006.01) B22F 5/10 (2006.01) B28B 1/00 (2006.01) B28B 3/00 (2006.01) B28B 3/02 (2006.01) B28B 7/34 (2006.01) B28B 7/38 (2006.01) B29C 33/00 (2006.01) B29C 33/38 (2006.01) B29C 33/60 (2006.01)**

[25] FR
[54] **METHOD FOR PRODUCING A COUNTER-FORM AND METHOD FOR MANUFACTURING A PART HAVING A COMPLEX SHAPE USING SUCH A COUNTER-FORM**
[54] **PROCEDE DE REALISATION DE CONTRE-FORME ET PROCEDE DE FABRICATION DE PIECE DE FORME COMPLEXE UTILISANT UNE TELLE CONTRE-FORME**
[72] BEYNET, YANNICK, FR
[72] EPHERRE, ROMAIN, FR
[71] NORIMAT, FR
[85] 2021-03-18
[86] 2019-10-01 (PCT/EP2019/076605)
[87] (WO2020/070133)
[30] FR (1859120) 2018-10-02

[21] **3,113,302**
[13] A1

[51] **Int.Cl. B22F 3/00 (2021.01) B33Y 10/00 (2015.01) B29C 64/00 (2017.01) B29C 64/165 (2017.01) B22C 9/04 (2006.01) B22C 9/10 (2006.01) B22F 3/10 (2006.01) B22F 3/105 (2006.01) B22F 3/12 (2006.01) B22F 3/14 (2006.01) B22F 3/15 (2006.01) B22F 5/00 (2006.01) B22F 5/10 (2006.01) B28B 1/00 (2006.01) B28B 3/00 (2006.01) B28B 3/02 (2006.01) B28B 7/34 (2006.01) B28B 7/38 (2006.01) B29C 33/00 (2006.01) B29C 33/38 (2006.01) B29C 33/60 (2006.01)**

[25] FR
[54] **METHOD FOR MANUFACTURING A PART OF COMPLEX SHAPE BY PRESSURE SINTERING STARTING FROM A PREFORM**
[54] **PROCEDE DE FABRICATION DE PIECE DE FORME COMPLEXE PAR FRITTAGE SOUS PRESSION A PARTIR D'UNE PREFORME**
[72] BEYNET, YANNICK, FR
[72] EPHERRE, ROMAIN, FR
[71] NORIMAT, FR
[85] 2021-03-18
[86] 2019-10-01 (PCT/EP2019/076550)
[87] (WO2020/070107)
[30] FR (1859100) 2018-10-02

[21] **3,113,303**
[13] A1

[51] **Int.Cl. C22B 3/24 (2006.01) B01D 15/30 (2006.01) C22B 13/00 (2006.01) C22B 60/00 (2006.01) C22B 60/02 (2006.01)**

[25] FR
[54] **METHOD FOR PRODUCING LEAD-212 FROM AN AQUEOUS SOLUTION COMPRISING THORIUM-228 AND ITS DESCENDANTS**
[54] **PROCEDE DE PRODUCTION DE PLOMB-212 A PARTIR D'UNE SOLUTION AQUEUSE COMPRENANT DU THORIUM-228 ET SES DESCENDANTS**
[72] DUREAU, REMY, FR
[72] TORGUE, JULIEN, US
[71] ORANO MED, FR
[85] 2021-03-18
[86] 2019-09-17 (PCT/FR2019/052165)
[87] (WO2020/065180)
[30] FR (1858833) 2018-09-26

[21] **3,113,306**
[13] A1

[51] **Int.Cl. C07K 16/32 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 16/46 (2006.01)**

[25] EN
[54] **HER2-BINDING TETRAMERIC POLYPEPTIDES**
[54] **POLYPEPTIDES TETRAMERES SE LIANT A HER2**
[72] KAST, FLORIAN, CH
[72] SCHWILL, MARTIN, CH
[72] HONEGGER, ANNEMARIE, CH
[72] STUBER, JAKOB, DE
[72] TAMASKOVIC, RASTISLAV, CH
[72] PLUCKTHUN, ANDREAS, CH
[71] UNIVERSITAT ZURICH, CH
[85] 2021-03-18
[86] 2019-10-08 (PCT/EP2019/077147)
[87] (WO2020/074469)
[30] US (16/153,857) 2018-10-08
[30] EP (19162408.9) 2019-03-12
[30] EP (19165362.5) 2019-03-26
[30] EP (19172075.4) 2019-04-30

[21] **3,113,308**
[13] A1

[51] **Int.Cl. C07D 405/10 (2006.01) A61K 31/506 (2006.01) A61P 25/24 (2006.01)**

[25] EN
[54] **4-PYRAZIN-2-YLMETHYL-MORPHOLINE DERIVATIVES AND THE USE THEREOF AS MEDICAMENT**
[54] **DERIVES DE 4-PYRAZIN-2-YLMETHYL-MORPHOLINE ET LEUR UTILISATION EN TANT QUE MEDICAMENT**
[72] GIOVANNINI, RICCARDO, DE
[72] CECI, ANGELO, DE
[72] DORNER-CIOSSEK, CORNELIA, DE
[72] PFAU, ROLAND, DE
[72] WIEDENMAYER, DIETER, DE
[71] BOEHRINGER INGELHEIM INTERNATIONAL GMBH, DE
[85] 2021-03-18
[86] 2019-10-16 (PCT/EP2019/078027)
[87] (WO2020/079039)
[30] EP (18200943.1) 2018-10-17

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[21] **3,113,313**
[13] A1

[51] **Int.Cl. F27D 99/00 (2010.01) A61C 13/20 (2006.01) F27B 17/02 (2006.01) H05B 3/44 (2006.01) H05B 3/62 (2006.01)**

[25] EN

[54] **HEATING ELEMENT FOR A DENTAL CERAMIC FURNACE AND DENTAL SINTERING FURNACE**

[54] **ELEMENT CHAUFFANT POUR UN FOUR DENTAIRE EN CERAMIQUE, AINSI QUE FOUR DENTAIRE DE FRITTAGE**

[72] BAHOLZER, THOMAS, DE

[71] VITA ZAHNFABRIK H. RAUTER GMBH & CO. KG, DE

[85] 2021-03-18

[86] 2019-10-17 (PCT/EP2019/078192)

[87] (WO2020/088943)

[30] EP (18203114.6) 2018-10-29

[21] **3,113,314**
[13] A1

[51] **Int.Cl. C07K 14/415 (2006.01) A01H 6/82 (2018.01) C12N 15/82 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **PLANT SERINE PROTEASES**

[54] **SERINE-PROTEASES DE PLANTE**

[72] MACH, LUKAS, AT

[72] PUCHOL TARAZONA, ALEJANDRO, AT

[72] STEINKELLNER, HERTA, AT

[72] STRASSER, RICHARD, AT

[71] UNIVERSITAT FUR BODENKULTUR WIEN, AT

[85] 2021-03-18

[86] 2019-10-02 (PCT/EP2019/076722)

[87] (WO2020/070197)

[30] EP (18198240.6) 2018-10-02

[21] **3,113,316**
[13] A1

[51] **Int.Cl. H02G 7/16 (2006.01) H02G 7/14 (2006.01)**

[25] EN

[54] **DEVICE FOR MANIPULATING MOVEMENT OF AN OVERHEAD POWER LINE**

[54] **DISPOSITIF POUR AGIR SUR LE MOUVEMENT D'UNE LIGNE ELECTRIQUE AERIENNE**

[72] HAUGEN, ANDREAS FORS, NO

[72] HAUGEN, MAGNUS, NO

[71] A&M UTVIKLING AS, NO

[85] 2021-03-18

[86] 2019-10-11 (PCT/EP2019/077593)

[87] (WO2020/088912)

[30] NO (20181394) 2018-10-30

[21] **3,113,317**
[13] A1

[51] **Int.Cl. C02F 1/461 (2006.01) C02F 1/46 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR COPPER-CATALYZED ELECTROCHEMICAL WATER TREATMENT**

[54] **PROCEDE ET APPAREIL DE TRAITEMENT ELECTROCHIMIQUE D'EAU PAR CATALYSE AU CUIVRE**

[72] ZHANG, XU, CA

[72] LI, GUOQIANG, CA

[72] CARRIER, ANDREW JAMES, CA

[72] NGANOU ASSONKENG, ALBERT COLLINS, CA

[71] CAPE BRETON UNIVERSITY, CA

[85] 2021-03-18

[86] 2019-10-10 (PCT/CA2019/051443)

[87] (WO2020/073128)

[30] US (62/744,146) 2018-10-11

[21] **3,113,319**
[13] A1

[51] **Int.Cl. A41H 3/00 (2006.01)**

[25] EN

[54] **SARTORIAL AND/OR INDUSTRIAL DESIGN AND METHOD FOR MANUFACTURING SAID SARTORIAL AND/OR INDUSTRIAL DESIGN**

[54] **CONCEPTION VESTIMENTAIRE ET/OU INDUSTRIELLE ET PROCEDE DE FABRICATION DE LADITE CONCEPTION VESTIMENTAIRE ET/OU INDUSTRIELLE**

[72] CRISTALDI, TERESA, IT

[71] CRISTALDI, TERESA, IT

[85] 2021-03-18

[86] 2019-10-22 (PCT/IB2019/059012)

[87] (WO2020/084486)

[30] IT (102018000009722) 2018-10-23

[21] **3,113,322**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS FOR COOPERATIVE INVASIVE AND NONINVASIVE BRAIN STIMULATION**

[54] **SYSTEMES ET METHODES POUR UNE STIMULATION CEREBRALE INVASIVE ET NON INVASIVE COOPERATIVE**

[72] INTRATOR, NATHAN, IL

[71] NEUROSTEER LTD., IL

[85] 2021-03-18

[86] 2019-09-18 (PCT/IB2019/001037)

[87] (WO2020/058761)

[30] US (62/732,905) 2018-09-18

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[21] **3,113,325**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **A METHOD TO TREAT DISEASE USING A NUCLEIC ACID VECTOR ENCODING A HIGHLY COMPACT MULTI-INPUT LOGIC GATE**

[54] **METHODE DE TRAITEMENT D'UNE MALADIE A L'AIDE D'UN VECTEUR D'ACIDE NUCLEIQUE CODANT POUR UNE PORTE LOGIQUE A ENTREES MULTIPLES HAUTEMENT COMPACTES**

[72] BENENSON, YAAKOV, CH
[72] ANGELICI, BARTOLOMEO, CH
[71] EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZURICH, CH

[85] 2021-03-18
[86] 2019-10-10 (PCT/IB2019/001100)
[87] (WO2020/074956)
[30] US (62/744,173) 2018-10-11

[21] **3,113,327**
[13] A1

[51] **Int.Cl. G06Q 20/00 (2012.01)**

[25] EN

[54] **SCALABLE DISTRIBUTED LEDGER SYSTEM**

[54] **SYSTEME DE REGISTRE DISTRIBUE EXTENSIBLE**

[72] ANDERSON, THOMAS G., US
[71] LEVERAGE ROCK LLC, US

[85] 2021-03-18
[86] 2018-09-27 (PCT/US2018/053240)
[87] (WO2019/067798)
[30] US (62/565,099) 2017-09-29
[30] US (62/571,556) 2017-10-12
[30] US (62/585,943) 2017-11-14
[30] US (62/644,841) 2018-03-19

[21] **3,113,331**
[13] A1

[51] **Int.Cl. A61H 33/00 (2006.01) E04H 4/00 (2006.01)**

[25] EN

[54] **PRECAST TUB**

[54] **BAIGNOIRE PREFABRIQUEE**

[72] SELINGER, GREGORY M., US
[71] SELINGER, GREGORY M., US

[85] 2021-03-18
[86] 2019-05-29 (PCT/US2019/034234)
[87] (WO2019/231939)
[30] US (15/995,497) 2018-06-01

[21] **3,113,336**
[13] A1

[51] **Int.Cl. B62D 13/06 (2006.01) B60W 30/06 (2006.01) B62D 15/02 (2006.01)**

[25] EN

[54] **AUTOMATED REVERSE IMPLEMENT PARKING**

[54] **STATIONNEMENT A MISE EN □UVRE INVERSE AUTOMATISEE**

[72] MEDAGODA, ERAN, D.B., US
[72] ASSEF, MOHAMMAD, US
[72] CHAI, JOSEPH, US
[72] DANG, TRI M., US
[71] AGJUNCTION LLC, US

[85] 2021-03-18
[86] 2019-08-26 (PCT/US2019/048136)
[87] (WO2020/076427)
[30] US (62/742,671) 2018-10-08

[21] **3,113,340**
[13] A1

[51] **Int.Cl. H01S 5/183 (2006.01)**

[25] EN

[54] **BROADBAND ACTIVE MIRROR ARCHITECTURE FOR HIGH POWER OPTICALLY PUMPED SEMICONDUCTOR DISK LASERS**

[54] **ARCHITECTURE DE MIROIR ACTIF A LARGE BANDE POUR LASERS A DISQUE A SEMI-CONDUCTEUR A POMPAGE OPTIQUE HAUTE PUISSANCE**

[72] SHEIK-BAHAE, MANSOOR, US
[72] ALBRECHT, ALEXANDER ROBERT, US
[72] YANG, ZHOU, US
[71] UNM RAINFOREST INNOVATIONS, US

[85] 2021-03-18
[86] 2019-09-19 (PCT/US2019/051987)
[87] (WO2020/061351)
[30] US (62/733,466) 2018-09-19

[21] **3,113,345**
[13] A1

[51] **Int.Cl. A61M 31/00 (2006.01) A61K 9/00 (2006.01)**

[25] EN

[54] **DRUG DELIVERY DEVICES AND SYSTEMS FOR LOCAL DRUG DELIVERY TO THE UPPER URINARY TRACT**

[54] **DISPOSITIFS ET SYSTEMES D'ADMINISTRATION DE MEDICAMENT POUR L'ADMINISTRATION LOCALE DE MEDICAMENT AU TRACTUS URINAIRE SUPERIEUR**

[72] ABBATE, EMILY, US
[72] DANIEL, KAREN, US
[72] CAULKINS, JOHN, US
[72] HO DUC, HONG LINH, US
[72] GREENAWAY, ERIK, US
[71] TARIS BIOMEDICAL LLC, US

[85] 2021-03-18
[86] 2019-11-08 (PCT/US2019/060493)
[87] (WO2020/097476)
[30] US (62/757,798) 2018-11-09

[21] **3,113,355**
[13] A1

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

[25] EN

[54] **AUTOMATED CONTROL OF IMAGE ACQUISITION VIA USE OF ACQUISITION DEVICE SENSORS**

[54] **COMMANDE AUTOMATISEE D'ACQUISITION D'IMAGES RECORANT A DES CAPTEURS DE DISPOSITIF D'ACQUISITION**

[72] DAWSON, MITCHELL DAVID, US
[72] GUAN, LI, US
[72] OTWELL, ANDREW H., US
[72] HSIAO, DUN-YU, US
[71] ZILLOW GROUP, INC., US

[85] 2021-03-18
[86] 2019-10-09 (PCT/US2019/055282)
[87] (WO2020/076880)
[30] US (62/744,480) 2018-10-11
[30] US (16/236,187) 2018-12-28

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[21] **3,113,358**
[13] A1

[51] **Int.Cl. B25J 15/08 (2006.01) B25J 9/00 (2006.01) B25J 15/00 (2006.01) B25J 15/06 (2006.01) B65B 35/36 (2006.01) B65B 35/38 (2006.01) B65G 61/00 (2006.01)**

[25] EN
[54] **AUTONOMOUS CROP HARVESTER**
[54] **RECOLTEUSE AUTONOME**
[72] JEANTY, CEDRIC, US
[72] ALLENDORPH, CARL, US
[72] GROSSMAN, MARC, US
[71] ADVANCED FARM TECHNOLOGIES, INC., US
[85] 2021-03-18
[86] 2019-10-03 (PCT/US2019/054581)
[87] (WO2020/076616)
[30] US (62/742,698) 2018-10-08
[30] US (62/854,264) 2019-05-29

[21] **3,113,394**
[13] A1

[51] **Int.Cl. H04W 72/04 (2009.01) H04W 16/28 (2009.01)**

[25] EN
[54] **USER TERMINAL AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL D'UTILISATEUR ET PROCEDE DE COMMUNICATION SANS FIL**
[72] HARADA, HIROKI, JP
[72] TAKEDA, KAZUKI, JP
[72] MATSUMURA, YUKI, JP
[71] NTT DOCOMO, INC., JP
[85] 2021-03-18
[86] 2018-09-21 (PCT/JP2018/035231)
[87] (WO2020/059153)

[21] **3,113,396**
[13] A1

[51] **Int.Cl. G01M 17/007 (2006.01)**

[25] EN
[54] **VEHICLE INSPECTION SYSTEM**
[54] **SYSTEME D'INSPECTION DE VEHICULE**
[72] AONO, KENTO, JP
[72] KURAI, KENICHIRO, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-03-18
[86] 2019-08-20 (PCT/JP2019/032340)
[87] (WO2020/059380)
[30] JP (2018-177983) 2018-09-21

[21] **3,113,398**
[13] A1

[51] **Int.Cl. C08F 2/44 (2006.01) A61C 13/07 (2006.01) C08F 257/02 (2006.01) C08F 265/06 (2006.01) C08L 101/00 (2006.01)**

[25] EN
[54] **PHOTOCURABLE COMPOSITION, DENTURE RELINE MATERIAL, AND KIT FOR PREPARING THESE**
[54] **COMPOSITION PHOTODURCISSABLE, REVETEMENT DE PLAQUE DENTAIRE, ET LEUR KIT DE PREPARATION**
[72] KINOSHITA, MASAKI, JP
[72] YAMAZAKI, TATSUYA, JP
[71] TOKUYAMA DENTAL CORPORATION, JP
[85] 2021-03-18
[86] 2019-08-21 (PCT/JP2019/032694)
[87] (WO2020/059399)
[30] JP (2018-176739) 2018-09-21

[21] **3,113,400**
[13] A1

[51] **Int.Cl. G01M 17/007 (2006.01) G01S 7/40 (2006.01) G01S 7/497 (2006.01) G01S 13/93 (2020.01) G01S 17/93 (2020.01) G01V 3/12 (2006.01)**

[25] EN
[54] **VEHICLE INSPECTION SYSTEM**
[54] **SYSTEME D'INSPECTION DE VEHICULE**
[72] AONO, KENTO, JP
[72] MATSUDA, SHOJI, JP
[72] ICHIKAWA, YOSUKE, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-03-18
[86] 2019-09-04 (PCT/JP2019/034812)
[87] (WO2020/059497)
[30] JP (2018-178003) 2018-09-21

[21] **3,113,403**
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01)**

[25] EN
[54] **AI CREATION VERIFICATION DEVICE**
[54] **DISPOSITIF DE VERIFICATION DE CREATION D'INTELLIGENCE ARTIFICIELLE**
[72] OYAMA, KENJI, JP
[71] BROADLEAF CO., LTD., JP
[85] 2021-03-18
[86] 2019-09-07 (PCT/JP2019/035288)
[87] (WO2020/054636)
[30] JP (2018-173142) 2018-09-15

[21] **3,113,405**
[13] A1

[51] **Int.Cl. G01S 7/497 (2006.01) G01S 7/481 (2006.01) G01S 17/93 (2020.01)**

[25] EN
[54] **SIMULATOR DEVICE**
[54] **DISPOSITIF SIMULATEUR**
[72] AONO, KENTO, JP
[72] MATSUDA, SHOJI, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-03-18
[86] 2019-09-10 (PCT/JP2019/035440)
[87] (WO2020/059568)
[30] JP (2018-177986) 2018-09-21

[21] **3,113,408**
[13] A1

[51] **Int.Cl. A61K 31/4709 (2006.01) A61K 31/436 (2006.01) A61K 31/44 (2006.01) A61K 31/4545 (2006.01) A61K 31/47 (2006.01) A61K 31/506 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 45/00 (2006.01) A61P 1/02 (2006.01) A61P 1/16 (2006.01) A61P 11/00 (2006.01) A61P 15/00 (2006.01) A61P 17/00 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 43/00 (2006.01)**

[25] EN
[54] **CANCER COMBINATION THERAPY USING QUINOLINE CARBOXAMIDE DERIVATIVE**
[54] **POLYTHERAPIE ANTICANCEREUSE UTILISANT UN DERIVE DE QUINOLEINE CARBOXAMIDE**
[72] ASAI, AKIRA, JP
[72] TSUGANE, MOMOMI, JP
[72] KONISHI, HIROAKI, JP
[72] YOSHINAGA, AKIKO, JP
[72] TAKAHASHI, HIROYUKI, JP
[72] IJIMA, TAKAHIRO, JP
[71] KABUSHIKI KAISHA YAKULT HONSHA, JP
[71] GENERAL INCORPORATED ASSOCIATION PHARMA VALLEY PROJECT SUPPORTING ORGANIZATION, JP
[85] 2021-03-18
[86] 2019-09-17 (PCT/JP2019/036363)
[87] (WO2020/059705)
[30] JP (2018-174179) 2018-09-18

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[21] **3,113,411**
[13] A1

[51] **Int.Cl. H04W 76/27 (2018.01) H04W 72/04 (2009.01) H04W 80/02 (2009.01)**
[25] EN
[54] **TERMINAL DEVICE, BASE STATION DEVICE, AND METHOD**
[54] **DISPOSITIF TERMINAL, DISPOSITIF DE STATION DE BASE, ET PROCEDE**
[72] HORI, TAKAKO, JP
[72] YAMADA, SHOHEI, JP
[72] TSUBOI, HIDEKAZU, JP
[71] SHARP KABUSHIKI KAISHA, JP
[71] FG INNOVATION COMPANY LIMITED, CN
[85] 2021-03-18
[86] 2019-09-17 (PCT/JP2019/036418)
[87] (WO2020/059720)
[30] JP (2018-176141) 2018-09-20

[21] **3,113,418**
[13] A1

[51] **Int.Cl. B65D 5/06 (2006.01) B65D 5/40 (2006.01)**
[25] EN
[54] **PAPER CONTAINER**
[54] **RECIPIENT EN PAPIER**
[72] YONEDA, YOSHITAKA, JP
[72] NAKAMURA, KOUYA, JP
[71] NIPPON PAPER INDUSTRIES CO., LTD., JP
[85] 2021-03-18
[86] 2019-09-20 (PCT/JP2019/037133)
[87] (WO2020/059883)
[30] JP (2018-178030) 2018-09-21

[21] **3,113,420**
[13] A1

[51] **Int.Cl. A01G 9/24 (2006.01)**
[25] EN
[54] **A GREENHOUSE HAVING A CLIMATE CONTROL SYSTEM, CLIMATE CONTROL SYSTEM AND METHOD OF OPERATING THE GREENHOUSE**
[54] **SERRE COMPORTANT UN SYSTEME DE REGULATION DE CLIMATISATION, SYSTEME DE REGULATION DE CLIMATISATION ET PROCEDE DE FONCTIONNEMENT DE LA SERRE**
[72] VAN DEN BERG, BART JAN, NL
[71] VDB B.V., NL
[85] 2021-03-18
[86] 2019-09-18 (PCT/NL2019/050613)
[87] (WO2020/060402)
[30] NL (2021676) 2018-09-20
[30] NL (2022992) 2019-04-23

[21] **3,113,430**
[13] A1

[51] **Int.Cl. B60C 23/00 (2006.01) F16K 31/122 (2006.01) F16K 31/126 (2006.01) G05D 16/06 (2006.01) B60G 11/27 (2006.01)**
[25] EN
[54] **PILOT OPERATED REGULATOR WITH ADJUSTABLE MINIMUM DELIVERY PRESSURE**
[54] **REGULATEUR ACTIONNE PAR PILOTE A PRESSION DE REFOULEMENT MINIMALE REGLABLE**
[72] CERVANTEZ, JESSE W., US
[72] WILSON, MATT J., US
[71] HENDRICKSON USA, L.L.C., US
[85] 2021-03-18
[86] 2019-09-24 (PCT/US2019/052564)
[87] (WO2020/068728)
[30] US (62/736,088) 2018-09-25

[21] **3,113,433**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**
[25] EN
[54] **ROTARY TOOL ADJUSTER FOR ROBOT WITH END OF ARM TOOL HAVING MULTIPLE TOOLS**
[54] **DISPOSITIF D'AJUSTEMENT D'OUTIL ROTATIF POUR ROBOT AYANT UNE EXTREMITÉ D'OUTIL DE BRAS AYANT DE MULTIPLES OUTILS**
[72] BROWN, THEODORE ROBERT, US
[72] STOLTZ, HENDRIK, US
[71] TOBIASZ, JAN, US
[71] T.A. SYSTEMS, INC., US
[85] 2021-03-18
[86] 2019-09-24 (PCT/US2019/052573)
[87] (WO2020/068733)
[30] US (62/735,551) 2018-09-24

[21] **3,113,435**
[13] A1

[51] **Int.Cl. C12N 15/85 (2006.01) A61K 47/61 (2017.01) A61K 31/7088 (2006.01) A61K 38/00 (2006.01) C12N 15/09 (2006.01) C12N 15/90 (2006.01) C12Q 1/68 (2018.01) C40B 40/02 (2006.01)**
[25] EN
[54] **NUCLEIC ACIDS FOR CELL RECOGNITION AND INTEGRATION**
[54] **ACIDES NUCLEIQUES POUR LA RECONNAISSANCE ET L'INTEGRATION DE CELLULES**
[72] BERNAL-MIZRACHI, LEON, US
[72] TINDALL, MATTHEW CHARLES, US
[71] EMORY UNIVERSITY, US
[71] KODIKAZ THERAPEUTIC SOLUTIONS, INC., US
[85] 2021-03-18
[86] 2019-09-24 (PCT/US2019/052680)
[87] (WO2020/068815)
[30] US (62/736,323) 2018-09-25
[30] US (62/875,887) 2019-07-18

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[21] **3,113,437**
[13] A1

[51] **Int.Cl. B01L 3/02 (2006.01)**
[25] EN
[54] **LEAK RESISTANT DROPPERS**
[54] **COMPTE-GOUTTES RESISTANT AUX FUITES**
[72] GANTER, BENJANMIN ALAN, US
[71] BOTTLE BARONS, LLC, US
[85] 2021-03-18
[86] 2019-09-24 (PCT/US2019/052806)
[87] (WO2020/068884)
[30] US (29/664,291) 2018-09-24
[30] US (62/735,500) 2018-09-24
[30] US (16/581,722) 2019-09-24

[21] **3,113,442**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY USING ANTI-SSEA-4 ANTIBODY IN COMBINATION WITH THERAPEUTIC ONCOLOGY AGENTS**
[54] **POLYTHERAPIE UTILISANT UN ANTICORPS ANTI-SSEA-4 EN ASSOCIATION AVEC DES AGENTS ONCOLOGIQUES THERAPEUTIQUES**
[72] YU, CHENG-DER, TONY, US
[72] LAI, JIANN-SHIUN, TW
[72] TSAI, YI-CHIEN, TW
[71] OBI PHARMA INC., TW
[85] 2021-03-18
[86] 2019-10-02 (PCT/US2019/054221)
[87] (WO2020/072593)
[30] US (62/740,373) 2018-10-02

[21] **3,113,443**
[13] A1

[51] **Int.Cl. G08B 21/00 (2006.01)**
[25] EN
[54] **PROXIMITY DETECTION SYSTEM FOR AN INDUSTRIAL MACHINE INCLUDING EXTERNALLY MOUNTED INDICATORS**
[54] **SYSTEME DE DETECTION DE PROXIMITE POUR UNE MACHINE INDUSTRIELLE COMPRENANT DES INDICATEURS MONTES A L'EXTERIEUR**
[72] TAYLOR, WESLEY P., US
[71] JOY GLOBAL SURFACE MINING INC, US
[85] 2021-03-18
[86] 2019-09-25 (PCT/US2019/052922)
[87] (WO2020/068958)
[30] US (62/736,249) 2018-09-25

[21] **3,113,524**
[13] A1

[51] **Int.Cl. G01N 33/48 (2006.01) A61P 1/12 (2006.01) C12Q 1/68 (2018.01) G01N 33/483 (2006.01) G01N 33/53 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **PRECISION DIAGNOSIS OF CLOSTRIDIODES DIFFICILE INFECTION USING SYSTEMS-BASED BIOMARKERS**
[54] **DIAGNOSTIC DE PRECISION D'UNE INFECTION PAR LE CLOSTRIDIODES DIFFICILE A L'AIDE DE BIOMARQUEURS BASES SUR DES SYSTEMES**
[72] SAVIDGE, TOR, US
[72] WU, QINGLONG, US
[71] BAYLOR COLLEGE OF MEDICINE, US
[85] 2021-03-16
[86] 2019-09-19 (PCT/US2019/051950)
[87] (WO2020/061325)
[30] US (62/733,550) 2018-09-19

[21] **3,113,525**
[13] A1

[51] **Int.Cl. B22D 43/00 (2006.01) B22D 11/119 (2006.01)**
[25] EN
[54] **ELECTROMAGNETIC PRIMING OF MOLTEN METAL FILTERS**
[54] **AMORCAGE ELECTROMAGNETIQUE DE FILTRES METALLIQUES FONDUS**
[72] FRITZSCH, ROBERT, US
[71] PYROTEK, INC., US
[85] 2021-03-18
[86] 2019-09-20 (PCT/US2019/052162)
[87] (WO2020/061459)
[30] US (62/734,704) 2018-09-21

[21] **3,113,526**
[13] A1

[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **SYSTEM, DEVICE AND METHODS OF SAMPLE PROCESSING USING SEMICONDUCTOR DETECTION CHIPS**
[54] **SYSTEME, DISPOSITIF ET PROCEDES DE TRAITEMENT D'ECHANTILLON A L'AIDE DE PUCES DE DETECTION A SEMI-CONDUCTEUR**
[72] SIEGRIST, JONATHAN, US
[72] CHANG, RONALD, US
[72] DORITY, DOUGLAS B., US
[71] CEPHEID, US
[85] 2021-03-18
[86] 2019-09-20 (PCT/US2019/052254)
[87] (WO2020/061515)
[30] US (62/734,079) 2018-09-20

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[21] **3,113,527**
[13] A1

[51] **Int.Cl. G06K 9/66 (2006.01) G06K 9/46 (2006.01) G06K 9/62 (2006.01) G06K 9/72 (2006.01)**

[25] EN

[54] **IMAGE CAPTIONING WITH WEAKLY-SUPERVISED ATTENTION PENALTY**

[54] **SOUS-TITRAGE D'IMAGE AVEC PENALITE D'ATTENTION FAIBLEMENT SUPERVISEE**

[72] LI, JIAYUN, US

[72] EBRAHIMPOUR, MOHAMMAD K., US

[72] MOGHTADERI, AZADEH, US

[72] YU, YEN-YUN, US

[71] ANCESTRY.COM OPERATIONS INC., US

[85] 2021-03-18

[86] 2019-10-09 (PCT/US2019/055326)

[87] (WO2020/081314)

[30] US (62/745,754) 2018-10-15

[30] US (62/860,003) 2019-06-11

[30] US (16/596,063) 2019-10-08

[21] **3,113,528**
[13] A1

[51] **Int.Cl. A61B 3/16 (2006.01) A61K 9/00 (2006.01) A61K 9/127 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR GLAUCOMA**

[54] **COMPOSITIONS ET METHODES DESTINEES A TRAITER LE GLAUCOME**

[72] MITCHELL, JAMES MURRAY, US

[72] REMMEL, HARMON LAWRENCE, US

[72] PENA, JOHN T. G., US

[71] AUFBAU MEDICAL INNOVATIONS LIMITED, IE

[71] CORNELL UNIVERSITY, US

[71] PENA, JOHN T. G., US

[85] 2021-03-18

[86] 2019-09-21 (PCT/US2019/052310)

[87] (WO2020/061550)

[30] US (62/734,699) 2018-09-21

[21] **3,113,529**
[13] A1

[51] **Int.Cl. C22B 3/04 (2006.01) C22B 3/16 (2006.01)**

[25] EN

[54] **LEACHING AIDS AND METHODS OF USING LEACHING AIDS**

[54] **AUXILIAIRES DE LIXIVIATION ET PROCEDES D'UTILISATION D'AUXILIAIRES DE LIXIVIATION**

[72] BENDER, JACK, US

[71] BASF SE, DE

[85] 2021-03-18

[86] 2019-10-10 (PCT/US2019/055504)

[87] (WO2020/077028)

[30] US (62/744,775) 2018-10-12

[21] **3,113,530**
[13] A1

[51] **Int.Cl. A61K 9/19 (2006.01) A61K 38/06 (2006.01) A61K 47/26 (2006.01) A61P 29/00 (2006.01) A61P 37/00 (2006.01)**

[25] EN

[54] **IMMUNOPROTEASOME INHIBITOR FORMULATIONS**

[54] **FORMULATION D'INHIBITEUR D'IMMUNOPROTEASOME**

[72] LEWIS, EVAN, US

[71] KEZAR LIFE SCIENCES, US

[85] 2021-03-18

[86] 2019-10-04 (PCT/US2019/054605)

[87] (WO2020/072848)

[30] US (62/741,221) 2018-10-04

[21] **3,113,531**
[13] A1

[51] **Int.Cl. A47G 19/22 (2006.01) A47G 21/18 (2006.01)**

[25] EN

[54] **PUMP-ACTIVATED FEEDING CONTAINER**

[54] **RECIPIENT D'ALIMENTATION ACTIVE PAR POMPE**

[72] CAMPBELL, BRYAN, US

[72] CAMPBELL, OLYMPIA, US

[71] CAMPBELL, BRYAN, US

[71] CAMPBELL, OLYMPIA, US

[85] 2021-03-18

[86] 2019-10-07 (PCT/US2019/055056)

[87] (WO2020/073053)

[30] US (62/742,090) 2018-10-05

[21] **3,113,532**
[13] A1

[51] **Int.Cl. C07C 311/16 (2006.01) A61K 31/18 (2006.01) A61K 31/341 (2006.01) A61K 31/415 (2006.01) A61K 31/44 (2006.01) A61K 31/4439 (2006.01) A61K 31/47 (2006.01) A61P 35/00 (2006.01) C07C 311/20 (2006.01) C07C 311/51 (2006.01) C07D 209/14 (2006.01) C07D 213/38 (2006.01) C07D 215/12 (2006.01) C07D 231/12 (2006.01) C07D 307/22 (2006.01) C07D 307/52 (2006.01) C07D 401/04 (2006.01)**

[25] EN

[54] **PENTAFLUOROPHENYL SULFONAMIDE COMPOUNDS, COMPOSITIONS AND USES THEREOF**

[54] **COMPOSES DE SULFONAMIDE PENTAFLUOROPHENYLE, COMPOSITIONS ET UTILISATIONS ASSOCIEES**

[72] AHMAR, SIAWASH, CA

[72] BAKHSHINYAN, DAVID, CA

[72] BERGER-BECVAR, ANGELIKA, CA

[72] BOGATCHENKO, MARIYA, CA

[72] DE ARAUJO, ELVIN, CA

[72] GELETU-HEYE, MULU, CA

[72] GUNNING, PATRICK THOMAS, CA

[72] KRASKOUSKAYA, DZIYANA, CA

[72] PARK, JI SUNG, CA

[72] SINA, DIANA, CA

[72] ROSA, DAVID ALEXANDER, CA

[72] SINGH, SHEILA, CA

[72] VENUGOPAL, CHITRA, CA

[71] DALRIADA THERAPEUTICS INC., CA

[85] 2021-03-19

[86] 2018-09-21 (PCT/CA2018/051191)

[87] (WO2019/056120)

[30] US (62/561,268) 2017-09-21

PCT Applications Entering the National Phase

[21] **3,113,533**
[13] A1

[51] **Int.Cl. G06F 16/24 (2019.01) G06F 16/242 (2019.01) G06F 16/248 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR IMPROVING SEARCHING OF STORED DATA**

[54] **SYSTEME ET PROCEDE D'AMELIORATION DE LA RECHERCHE DE DONNEES STOCKEES**

[72] DU, YIJUN, CA
[71] DU, YIJUN, CA
[85] 2021-03-19
[86] 2018-10-25 (PCT/CA2018/051350)
[87] (WO2020/082154)

[21] **3,113,534**
[13] A1

[51] **Int.Cl. C09D 183/06 (2006.01) C09D 7/62 (2018.01) C09D 5/08 (2006.01) C09D 183/08 (2006.01)**

[25] EN

[54] **ALUMINA SOL-SILANE COMPOSITE MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF**

[54] **MATERIAU COMPOSITE AU SOL D'ALUMINE-SILANE, SON PROCEDE DE PREPARATION ET SON APPLICATION**

[72] LI, SHAOCHUN, CN
[72] HOU, DONGSHUAI, CN
[72] GENG, YONGJUAN, CN
[72] ZHANG, WENJUAN, CN
[72] JIN, ZUQUAN, CN
[72] ZHU, YAGUANG, CN
[72] ZHANG, YOULAI, CN
[71] QINGDAO UNIVERSITY OF TECHNOLOGY, CN
[85] 2021-03-19
[86] 2019-06-04 (PCT/CN2019/089935)
[87] (WO2020/057174)
[30] CN (201811106866.5) 2018-09-21

[21] **3,113,535**
[13] A1

[51] **Int.Cl. H04W 80/02 (2009.01) H04W 4/30 (2018.01) H04B 1/40 (2015.01) H04L 12/40 (2006.01)**

[25] EN

[54] **WIRELESS CAMERA SYSTEM**

[54] **SYSTEME DE CAMERA SANS FIL**

[72] BUNN, ROBERT DOUGLAS, CA
[72] BORISS, BENJAMIN, CA
[72] EADY-LAPSLEY, BROOKE, CA
[72] EADY, LOCKE NIEL NORMAN, CA
[72] EADY, SHEA MARSHALL COLE, CA
[72] GROHMANN, RALPH, CA
[71] R.F. WIRELESS SYSTEMS INC., CA
[85] 2021-03-19
[86] 2019-09-23 (PCT/CA2019/051353)
[87] (WO2020/056526)
[30] US (62/734,634) 2018-09-21

[21] **3,113,536**
[13] A1

[51] **Int.Cl. C07K 14/00 (2006.01) A61P 35/00 (2006.01) C07K 19/00 (2006.01) C12N 15/00 (2006.01)**

[25] EN

[54] **HIGH AFFINITY T CELL RECEPTOR FOR RECOGNIZING AFP ANTIGEN**

[54] **RECEPTEUR DE LYMPHOCYTES T DE HAUTE AFFINITE RECONNAISSANT UN ANTIGENE AFP**

[72] LI, YI, CN
[72] LI, XIAOLIN, CN
[72] CHEN, SHAOPEI, CN
[71] XLIFESC, LTD., CN
[85] 2021-03-19
[86] 2019-09-19 (PCT/CN2019/106816)
[87] (WO2020/057619)
[30] CN (201811109677.3) 2018-09-21

[21] **3,113,538**
[13] A1

[51] **Int.Cl. H04N 19/86 (2014.01)**

[25] EN

[54] **IMAGE PROCESSING DEVICE AND METHOD FOR PERFORMING QUALITY OPTIMIZED DEBLOCKING**

[54] **DISPOSITIF DE TRAITEMENT D'IMAGE ET PROCEDE D'EXECUTION D'UN DEGROUPEMENT DE QUALITE OPTIMISEE**

[72] KOTRA, ANAND MEHER, CN
[72] ESENLIK, SEMIH, CN
[72] WANG, BIAO, CN
[72] GAO, HAN, CN
[72] ZHAO, ZHIJIE, CN
[72] CHEN, JIANLE, US
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-03-19
[86] 2019-09-24 (PCT/CN2019/107409)
[87] (WO2020/063555)
[30] US (62/735,712) 2018-09-24

Demandes PCT entrant en phase nationale

[21] **3,113,539**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/30 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **ANTIBODY CONSTRUCTS BINDING 4-1BB AND TUMOR-ASSOCIATED ANTIGENS AND USES THEREOF**

[54] **CONSTRUCTIONS D'ANTICORPS SE LIANT A 4-1BB ET ANTIGENES ASSOCIES A UNE TUMEUR ET LEURS UTILISATIONS**

[72] MILLS, DAVID M., CA
[72] PATTON, DANIEL T., CA
[72] VOLKERS, GESA, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[72] UROSEV, DUNJA, CA
[72] FREIBURGER, LEE, CA
[72] DUAN, ZHUANG, CA
[72] HALVORSEN, ELIZABETH, CA
[72] PRATAP, HARSH, CA
[72] CLAVETTE, BRANDON, CA
[72] VON ROSSUM, ANNA, CA
[72] BROWMAN, DUNCAN, CA
[72] CHAN, PETER WING YIU, CA
[72] CHUI, DANNY, CA
[72] GENE, ROBERT WILLIAM, CA
[72] JANCOWSKI, SYLWIA, CA
[72] KANG, SUKHBIR SINGH, CA
[72] ZWIERZCHOWSKI, PATRICIA, CA
[71] ZYMEWORKS INC., CA
[85] 2021-03-19
[86] 2019-10-10 (PCT/CA2019/051448)
[87] (WO2020/073131)
[30] US (62/744,059) 2018-10-10

[21] **3,113,540**
[13] A1

[51] **Int.Cl. A47J 37/06 (2006.01)**

[25] EN

[54] **FOOD PREPARATION AND PRESENTATION SYSTEM**

[54] **SYSTEME DE PREPARATION ET DE DISTRIBUTION D'ALIMENTS**

[72] BIRKENSTOCK, CHRISTIAN, DE
[71] IP IDEAS PRODUCTION GMBH & CO. KG, DE
[85] 2021-03-19
[86] 2019-09-23 (PCT/EP2019/075482)
[87] (WO2020/058526)
[30] DE (20 2018 105 430.9) 2018-09-21

[21] **3,113,541**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) C12P 21/08 (2006.01) G01N 33/577 (2006.01)**

[25] EN

[54] **AN ANTI-OX40 ANTIBODY, ANTIGEN-BINDING FRAGMENT THEREOF, AND THE PHARMACEUTICAL USE**

[54] **ANTICORPS ANTI-OX40, FRAGMENT DE LIAISON A L'ANTIGENE DE CELUI-CI, ET UTILISATION PHARMACEUTIQUE**

[72] LIAO, CHENG, CN
[72] XU, ZUPENG, CN
[72] JIANG, JIAHUA, CN
[72] YE, XIN, CN
[72] ZHANG, LIANSHAN, CN
[71] JIANGSU HENGRUI MEDICINE CO., LTD., CN
[85] 2021-03-19
[86] 2019-09-25 (PCT/CN2019/107787)
[87] (WO2020/063660)
[30] CN (201811128669.3) 2018-09-26
[30] CN (201811417666.1) 2018-11-26

[21] **3,113,543**
[13] A1

[51] **Int.Cl. G06F 21/64 (2013.01)**

[25] EN

[54] **SYSTEMS AND COMPUTER-BASED METHODS OF DOCUMENT CERTIFICATION AND PUBLICATION**

[54] **SYSTEMES ET PROCEDES BASES SUR DES ORDINATEURS POUR LA CERTIFICATION ET LA PUBLICATION DE DOCUMENTS**

[72] JARRY-LACOMBE, LUC, FR
[72] LANGARD, VINCENT, FR
[71] BLOCKCHAIN CERTIFIED DATA, FR
[85] 2021-03-19
[86] 2019-09-23 (PCT/EP2019/075505)
[87] (WO2020/058527)
[30] US (16/138,082) 2018-09-21

[21] **3,113,544**
[13] A1

[51] **Int.Cl. C10G 2/00 (2006.01) B01J 21/06 (2006.01) B01J 23/75 (2006.01) B01J 23/889 (2006.01) C07C 29/156 (2006.01)**

[25] EN

[54] **FISCHER-TROPSCH PROCESS**

[54] **PROCEDE FISCHER-TROPSCH**

[72] SUNLEY, JOHN GLENN, GB
[72] PATERSON, ALEXANDER JAMES, GB
[71] BP P.L.C., GB
[85] 2021-03-19
[86] 2019-09-26 (PCT/EP2019/076034)
[87] (WO2020/064929)
[30] EP (18197717.4) 2018-09-28

[21] **3,113,545**
[13] A1

[51] **Int.Cl. H04N 19/52 (2014.01) H04N 19/105 (2014.01)**

[25] EN

[54] **VIDEO PICTURE PREDICTION METHOD AND APPARATUS**

[54] **METHODE ET APPAREIL DE PREDICTION D'IMAGE VIDEO**

[72] CHEN, HUANBANG, CN
[72] YANG, HAITAO, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-03-19
[86] 2019-10-23 (PCT/CN2019/112749)
[87] (WO2020/088324)
[30] CN (201811268188.2) 2018-10-29
[30] CN (201811642717.0) 2018-12-29

[21] **3,113,546**
[13] A1

[51] **Int.Cl. A61M 1/06 (2006.01)**

[25] EN

[54] **BREAST PUMP**

[54] **TIRE-LAIT**

[72] ZHANG, SHUTING, CN
[71] THINK GREEN LIMITED, NZ
[85] 2021-03-19
[86] 2020-01-02 (PCT/CN2020/070053)
[87] (WO2020/143518)
[30] NZ (749888) 2019-01-11
[30] US (16/280,747) 2019-02-20
[30] EP (19158448.1) 2019-02-21
[30] NZ (753559) 2019-05-14
[30] CN (201910415302.8) 2019-05-17
[30] CN (201920710968.1) 2019-05-17

PCT Applications Entering the National Phase

[21] **3,113,547**
[13] A1

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/517 (2006.01) C07D 401/06 (2006.01) C07D 403/06 (2006.01) C07D 417/14 (2006.01)**

[25] EN
[54] **USP7 INHIBITION**
[54] **INHIBITION D'USP7**
[72] LIU, XIAOXI, US
[72] BUHRLAGE, SARA, US
[71] DANA-FARBER CANCER INSTITUTE, INC., US
[85] 2021-03-18
[86] 2019-10-22 (PCT/US2019/057456)
[87] (WO2020/086595)
[30] US (62/748,910) 2018-10-22

[21] **3,113,548**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/40 (2006.01) C07K 16/46 (2006.01)**

[25] EN
[54] **BISPECIFIC ANTIGEN BINDING MOLECULES COMPRISING ANTI-FAP CLONE 212**
[54] **MOLECULES BISPECIFIQUES DE LIAISON A L'ANTIGENE COMPRENANT UN CLONE ANTI-FAP 212**
[72] BRUENKER, PETER, CH
[72] DUERR, HARALD, DE
[72] KLEIN, CHRISTIAN, CH
[72] UMANA, PABLO, CH
[72] BUJOTZEK, ALEXANDER, DE
[72] ZIELONKA, JOERG, CH
[72] TRUMPFHELLER, CHRISTINE, CH
[72] RAPP, MORITZ, CH
[72] LE CLECH, MARINE, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-03-19
[86] 2019-09-30 (PCT/EP2019/076375)
[87] (WO2020/070041)
[30] EP (18197866.9) 2018-10-01

[21] **3,113,549**
[13] A1

[51] **Int.Cl. A61K 31/47 (2006.01) A61K 9/16 (2006.01) A61K 9/48 (2006.01) A61K 47/02 (2006.01)**

[25] EN
[54] **CRYSTALLINE FORMS AND PROCESSES OF LENVATINIB BESYLATE**
[54] **FORMES CRISTALLINES ET PROCEDES DE LENVATINIB BESYLATE**
[72] NOGUEIRAS NIETO, LUIS, ES
[72] ALVAREZ FERNANDEZ, LISARDO, ES
[72] WESTHEIM, RAYMOND, NL
[72] JELINKOVA, KATERINA, CZ
[71] SYNTHON B.V., NL
[85] 2021-03-19
[86] 2019-10-01 (PCT/EP2019/076622)
[87] (WO2020/070144)
[30] EP (18198662.1) 2018-10-04
[30] EP (19172395.6) 2019-05-02

[21] **3,113,550**
[13] A1

[51] **Int.Cl. B64F 1/36 (2017.01) B64F 1/34 (2006.01) F02B 63/04 (2006.01)**

[25] EN
[54] **VARIABLE PNEUMATIC OUTPUT WITH CONSTANT ELECTRICAL OUTPUT DRIVEN BY A SINGLE ENGINE**
[54] **SORTIE PNEUMATIQUE VARIABLE A SORTIE ELECTRIQUE CONSTANTE ENTRAINÉE PAR MONOMOTEUR**
[72] NESTEL, STEVEN U., US
[72] CARLSON, BRENT ANDREW, US
[72] NELSON, KIRK RODNEY, US
[71] JBT AEROTECH CORPORATION, US
[85] 2021-03-18
[86] 2019-10-24 (PCT/US2019/057814)
[87] (WO2020/092115)
[30] US (16/177,313) 2018-10-31

[21] **3,113,551**
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01) G16B 20/00 (2019.01)**

[25] EN
[54] **METHOD AND DEVICES FOR AGE DETERMINATION**
[54] **PROCEDE ET DISPOSITIFS DE DETERMINATION D'AGE**
[72] SCHIEDERIG, TIM, DE
[72] GUL, SHERAZ, GB
[72] ZALIANI, ANDREA, DE
[72] CHACHULSKI, LAURA, DE
[72] CLAUSSEN, CARSTEN, DE
[71] THOMAS J.C. MATZEN GMBH, DE
[85] 2021-03-19
[86] 2019-10-08 (PCT/EP2019/077252)
[87] (WO2020/074533)
[30] EP (18199156.3) 2018-10-08

[21] **3,113,552**
[13] A1

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

[25] EN
[54] **IMMUNOGENIC COMPOSITION FOR THE TREATMENT OF CANCER**
[54] **COMPOSITION IMMUNOGENIQUE POUR LE TRAITEMENT DU CANCER**
[72] MELIEF, JEROEN, SE
[72] KIESSLING, ROLF VALTER RIKARD, SE
[71] MELIEF, JEROEN, SE
[71] KIESSLING, ROLF VALTER RIKARD, SE
[85] 2021-03-19
[86] 2018-09-28 (PCT/EP2018/076539)
[87] (WO2019/063829)
[30] EP (17194223.8) 2017-09-29

[21] **3,113,553**
[13] A1

[51] **Int.Cl. E06B 3/968 (2006.01) E06B 3/96 (2006.01)**

[25] EN
[54] **CORNER JOINT CLIP WITH SELF-BACKING PLATE**
[54] **PINCE D'ARTICULATION D'ANGLE COMPRENANT UNE PLAQUE DE SUPPORT AUTONOME**
[72] MCKENNA, GREG B., US
[72] BARBULESCU, ION-HORATIU, US
[71] ARCONIC TECHNOLOGIES LLC, US
[85] 2021-03-18
[86] 2019-10-25 (PCT/US2019/058051)
[87] (WO2020/123045)
[30] US (16/215,970) 2018-12-11

Demandes PCT entrant en phase nationale

[21] **3,113,554**
[13] A1

[51] **Int.Cl. A24F 40/46 (2020.01)**
[25] EN
[54] **AEROSOL GENERATION DEVICE AND HEATING CHAMBER THEREFOR**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET CHAMBRE DE CHAUFFAGE ASSOCIEE**
[72] REEVELL, TONY, GB
[71] JT INTERNATIONAL S.A., CH
[85] 2021-03-19
[86] 2019-10-09 (PCT/EP2019/077399)
[87] (WO2020/074604)
[30] EP (18200266.7) 2018-10-12

[21] **3,113,555**
[13] A1

[51] **Int.Cl. B65D 8/02 (2006.01) B29C 65/00 (2006.01) B65D 25/42 (2006.01)**
[25] EN
[54] **PLASTIC CONTAINER**
[54] **CONTENANT EN MATIERE SYNTHETIQUE**
[72] WEYRAUCH, DETLEV, DE
[71] MAUSER-WERKE GMBH, DE
[85] 2021-03-19
[86] 2019-09-20 (PCT/EP2019/000275)
[87] (WO2020/057775)
[30] DE (20 2018 004 383.4) 2018-09-21

[21] **3,113,557**
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01)**
[25] EN
[54] **AEROSOL GENERATION DEVICE, AND HEATING CHAMBER THEREFOR**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET CHAMBRE DE CHAUFFAGE ASSOCIEE**
[72] REEVELL, TONY, GB
[71] JT INTERNATIONAL S.A., CH
[85] 2021-03-19
[86] 2019-10-09 (PCT/EP2019/077414)
[87] (WO2020/074611)
[30] EP (18200269.1) 2018-10-12

[21] **3,113,558**
[13] A1

[51] **Int.Cl. A41D 13/05 (2006.01) A41D 27/04 (2006.01)**
[25] EN
[54] **PROTECTIVE CLOTHING FOR CUTTING OPERATIONS**
[54] **VETEMENT DE PROTECTION POUR DES OPERATIONS DE COUPE**
[72] BROTHERS, KARL, AF
[72] BROTHERS, GUY, GB
[72] BROTHERS, WINSTON, GB
[71] BROTHERS, KARL, AF
[71] BROTHERS, GUY, GB
[85] 2021-03-19
[86] 2019-09-19 (PCT/GB2019/000139)
[87] (WO2020/058662)
[30] GB (1815269.4) 2018-09-19

[21] **3,113,559**
[13] A1

[51] **Int.Cl. B60T 17/22 (2006.01) B60T 13/74 (2006.01) F16D 55/225 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING DESIGN PARAMETERS OF AN ELECTROMECHANICAL BRAKE, AND ELECTROMECHANICAL BRAKE**
[54] **PROCEDE DE DETERMINATION DE PARAMETRES DE CONCEPTION D'UN FREIN ELECTROMECHANIQUE ET FREIN ELECTROMECHANIQUE**
[72] PUTZ, MICHAEL, AT
[71] GREENBRAKES GMBH, AT
[85] 2021-03-19
[86] 2019-09-17 (PCT/EP2019/074897)
[87] (WO2020/058284)
[30] AT (A 50800/2018) 2018-09-19

[21] **3,113,560**
[13] A1

[51] **Int.Cl. A61M 5/142 (2006.01)**
[25] EN
[54] **MICRODOSING**
[54] **MICRODOSAGE**
[72] ADLER, MICHAEL, CH
[72] LUEMKEMANN, JOERG, CH
[72] MAHLER, HANNS-CHRISTIAN, CH
[72] LUTHRINGER, DENIS, CH
[72] MEYER, ALEXANDER, CH
[72] BOILLON, ADELINE, CH
[72] DORN, ANKE, CH
[72] BECHTHOLD-PETERS, KAROLINE, CH
[72] DRECKMANN, TIM, CH
[72] ERNST, ANDREAS, DE
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2021-03-19
[86] 2019-10-18 (PCT/EP2019/078397)
[87] (WO2020/079236)
[30] EP (18201464.7) 2018-10-19

[21] **3,113,561**
[13] A1

[51] **Int.Cl. B24C 1/08 (2006.01) B24B 31/073 (2006.01) B24B 31/16 (2006.01) B24C 1/10 (2006.01) B24C 5/00 (2006.01) B24C 9/00 (2006.01) B24C 11/00 (2006.01)**
[25] EN
[54] **IMPROVED VIBROBLASTING METHOD AND RELATIVE MACHINE**
[54] **PROCEDE DE VIBRO-ABRASION AMELIORE ET MACHINE ASSOCIEE**
[72] REDAELLI, PAOLO, IT
[71] REDAELLI, PAOLO, IT
[85] 2021-03-19
[86] 2020-02-28 (PCT/EP2020/055245)
[87] (WO2020/233846)
[30] IT (102019000007052) 2019-05-21

PCT Applications Entering the National Phase

[21] **3,113,562**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 45/06 (2006.01) A61P 37/06 (2006.01) C07K 16/18 (2006.01)**

[25] EN

[54] **ANTI-HUMAN CD45RC ANTIBODIES AND USES THEREOF**

[54] **ANTICORPS ANTI-CD45RC HUMAIN ET LEURS UTILISATIONS**

[72] GUILLONNEAU, CAROLE, FR

[72] ANEGON, IGNACIO, FR

[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR

[71] UNIVERSITE DE NANTES, FR

[71] CENTRE HOSPITALIER UNIVERSITAIRE DE NANTES, FR

[85] 2021-03-19

[86] 2019-09-20 (PCT/EP2019/075374)

[87] (WO2020/058495)

[30] EP (18306230.6) 2018-09-21

[21] **3,113,563**
[13] A1

[51] **Int.Cl. A61B 17/02 (2006.01)**

[25] EN

[54] **ADJUSTABLE LOCKING SURGICAL RETRACTOR**

[54] **ECARTEUR CHIRURGICAL A VERROUILLAGE REGLABLE**

[72] CESTERO, RAMON FRANCISCO, US

[72] LONG, JUSTIN ALEXANDER, US

[72] LONG, CLARENCE LAMAR, US

[72] LONG, JEFFREY ADAM, US

[71] CESTERO, RAMON FRANCISCO, US

[71] LONG, JUSTIN ALEXANDER, US

[71] LONG, CLARENCE LAMAR, US

[71] LONG, JEFFREY ADAM, US

[85] 2021-03-17

[86] 2019-09-17 (PCT/US2019/051549)

[87] (WO2020/061073)

[30] US (62/732,340) 2018-09-17

[21] **3,113,565**
[13] A1

[51] **Int.Cl. F02B 61/04 (2006.01) F02B 67/10 (2006.01)**

[25] EN

[54] **A MARINE ENGINE ASSEMBLY**

[54] **ENSEMBLE MOTEUR MARIN**

[72] SELWAY, MARTIN, GB

[71] COX POWERTRAIN LIMITED, GB

[85] 2021-03-19

[86] 2019-09-16 (PCT/GB2019/052587)

[87] (WO2020/058678)

[30] GB (1815311.4) 2018-09-20

[21] **3,113,566**
[13] A1

[51] **Int.Cl. G01N 21/64 (2006.01) C09K 11/06 (2006.01) C12Q 1/48 (2006.01) G01N 21/77 (2006.01) G01N 33/542 (2006.01)**

[25] EN

[54] **A METHOD FOR DETERMINING CONCENTRATION OF PHOSPHATE**

[54] **PROCEDE DE DETERMINATION DE CONCENTRATION DE PHOSPHATE**

[72] PUUPPONEN, SALLA, FI

[72] KRAPU, SARI, FI

[71] KEMIRA OYJ, FI

[85] 2021-03-19

[86] 2019-09-27 (PCT/FI2019/050691)

[87] (WO2020/070382)

[30] FI (20185819) 2018-10-01

[21] **3,113,568**
[13] A1

[51] **Int.Cl. G01N 31/22 (2006.01) G01N 21/64 (2006.01) G01N 21/77 (2006.01)**

[25] EN

[54] **A METHOD FOR DETERMINING CONCENTRATION OF POLYELECTROLYTES AND PHOSPHONATES**

[54] **PROCEDE DE DETERMINATION DE LA CONCENTRATION DE POLYELECTROLYTES ET DE PHOSPHONATES**

[72] PUUPPONEN, SALLA, FI

[72] KRAPU, SARI, FI

[71] KEMIRA OYJ, FI

[85] 2021-03-19

[86] 2019-09-27 (PCT/FI2019/050695)

[87] (WO2020/070386)

[30] FI (20185817) 2018-10-01

[21] **3,113,569**
[13] A1

[51] **Int.Cl. A47C 31/00 (2006.01) A47C 16/00 (2006.01) A47C 20/02 (2006.01) A47C 27/08 (2006.01) A61G 5/10 (2006.01) B68G 5/00 (2006.01)**

[25] EN

[54] **AN ADJUSTABLE WHEELCHAIR SEAT CUSHION APPARATUS**

[54] **APPAREIL DE COUSSIN DE SIEGE DE FAUTEUIL ROULANT REGLABLE**

[72] WILSON, SUSAN L., US

[72] LANDI, CURTIS L., US

[71] SUPRACOR, INC., US

[85] 2021-03-19

[86] 2019-09-26 (PCT/IB2019/001463)

[87] (WO2020/201805)

[30] US (16/583,251) 2019-09-25

[21] **3,113,570**
[13] A1

[51] **Int.Cl. H04B 1/3827 (2015.01) H01Q 1/38 (2006.01)**

[25] EN

[54] **ANTENNA ASSEMBLY FOR A VEHICLE**

[54] **ENSEMBLE ANTENNE POUR UN VEHICULE**

[72] THILL, KEVIN, US

[72] NOON, CALLUM, US

[72] GREENSTEIN, LARRY, US

[71] AIRGAIN INCORPORATED, US

[85] 2021-03-18

[86] 2019-11-12 (PCT/US2019/061038)

[87] (WO2020/142141)

[30] US (16/237,678) 2019-01-01

[30] US (16/414,717) 2019-05-16

[30] US (16/570,448) 2019-09-13

[21] **3,113,571**
[13] A1

[51] **Int.Cl. F27B 3/22 (2006.01) F27D 99/00 (2010.01) F27D 3/16 (2006.01)**

[25] FR

[54] **GAS INJECTION MEMBER, FURNACE PROVIDED WITH SUCH A MEMBER AND USE THEREOF**

[54] **ORGANE D'INJECTION DE GAZ, FOUR MUNI D'UN TEL ORGANE ET SON UTILISATION**

[72] THOMAS, JEAN-PHILIPPE, BE

[71] SOUDOBEAM, BE

[85] 2021-03-19

[86] 2019-10-24 (PCT/EP2019/079084)

[87] (WO2020/084076)

[30] BE (2018/5739) 2018-10-25

Demandes PCT entrant en phase nationale

[21] **3,113,572**
[13] A1

[51] **Int.Cl. B42D 25/405 (2014.01) B42D 25/29 (2014.01) B42D 25/378 (2014.01) B42D 25/387 (2014.01) B41M 3/14 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A SECURITY FEATURE**

[54] **PROCEDE POUR LA FABRICATION D'UNE CARACTERISTIQUE DE SECURITE**

[72] EGGINGER, MARTIN, AT

[72] BERGSMANN, MARTIN, AT

[72] MAYRHOFER, MARCO, AT

[71] HUECK FOLIEN GESELLSCHAFT M.B.H., AT

[71] BANQUE DE FRANCE, FR

[85] 2021-03-19

[86] 2019-11-08 (PCT/AT2019/060379)

[87] (WO2020/093080)

[30] AT (A50964/2018) 2018-11-09

[21] **3,113,573**
[13] A1

[51] **Int.Cl. C07D 261/08 (2006.01) A61K 31/397 (2006.01) A61K 31/4995 (2006.01) A61P 27/16 (2006.01) C07D 413/04 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01) C07D 487/08 (2006.01)**

[25] EN

[54] **ISOXAZOLE CARBOXAMIDE COMPOUNDS AND USES THEREOF**

[54] **COMPOSES D'ISOXAZOLE CARBOXAMIDE ET LEURS UTILISATIONS**

[72] BECKWITH, ROHAN ERIC JOHN, US

[72] JIANG, HUA, CN

[72] WANG, CE, CN

[71] NOVARTIS AG, CH

[85] 2021-03-19

[86] 2019-09-19 (PCT/IB2019/057941)

[87] (WO2020/058913)

[30] CN (PCT/CN2018/106939) 2018-09-21

[21] **3,113,574**
[13] A1

[51] **Int.Cl. A61K 33/00 (2006.01) A61K 36/28 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **A FORMULATION COMPRISING OZONISED OIL IN THE TREATMENT OF A TUMOUR**

[54] **FORMULATION CONTENANT DE L'HUILE OZONEE POUR LE TRAITEMENT D'UNE TUMEUR**

[72] CAROCCI, GIANCARLO, ES

[71] PROJECT & COMMUNICATIONS LTD., GB

[85] 2021-03-19

[86] 2019-09-30 (PCT/IB2019/058298)

[87] (WO2020/070623)

[30] IT (102018000009063) 2018-10-01

[21] **3,113,575**
[13] A1

[51] **Int.Cl. C07K 16/18 (2006.01) A61K 39/395 (2006.01) A61P 3/06 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01) C07K 14/775 (2006.01)**

[25] EN

[54] **ANTIBODIES SPECIFIC FOR HUMAN AND CYNOMOLGUS APOC3 AND METHODS OF USE THEREOF**

[54] **ANTICORPS SPECIFIQUES A L'APOC3 HUMAINE ET DU CYNOMOLGUS ET PROCEDES POUR LEUR UTILISATION**

[72] DASILVA-JARDINE, PAUL, US

[72] DE HAARD, HANS, NL

[71] STATEN BIOTECHNOLOGY B.V., NL

[85] 2021-03-19

[86] 2019-10-03 (PCT/IB2019/058403)

[87] (WO2020/070678)

[30] US (62/740,798) 2018-10-03

[21] **3,113,576**
[13] A1

[51] **Int.Cl. A21D 2/24 (2006.01)**

[25] EN

[54] **FORTIFIED DOUGH FOR GASTRONOMIC FOOD, FOOD AND METHOD**

[54] **PATE FORTIFIEE POUR ALIMENT GASTRONOMIQUE, ALIMENT ET PROCEDE CORRESPONDANTS**

[72] BARBIERI, LUCA, IT

[72] MACCA, ALESSANDRO, IT

[72] MURATORI, FABRIZIO, IT

[72] VIGNATI, FEDERICO, IT

[72] DI SACCO, GIANLEONE, IT

[71] BARBIERI, LUCA, IT

[71] MACCA, ALESSANDRO, IT

[71] MURATORI, FABRIZIO, IT

[71] VIGNATI, FEDERICO, IT

[71] DI SACCO, GIANLEONE, IT

[85] 2021-03-19

[86] 2019-09-20 (PCT/IB2019/057986)

[87] (WO2020/065480)

[30] IT (102018000008859) 2018-09-24

[21] **3,113,577**
[13] A1

[51] **Int.Cl. C10B 49/16 (2006.01) C10B 49/22 (2006.01) C10B 53/07 (2006.01) C10J 3/06 (2006.01) C10J 3/12 (2006.01) C10J 3/46 (2006.01)**

[25] EN

[54] **PROCESS OF TREATING CARBONACEOUS MATERIAL AND APPARATUS THEREFOR**

[54] **PROCEDE DE TRAITEMENT DE MATERIAU CARBONE ET APPAREIL ASSOCIE**

[72] WINTER, JOHN DAVID, AU

[72] MCFARLANE, JAMES, AU

[71] SEATA HOLDINGS PTY LTD, AU

[85] 2021-03-19

[86] 2019-10-10 (PCT/AU2019/051099)

[87] (WO2020/073092)

[30] AU (2018903826) 2018-10-10

[30] AU (2019901620) 2019-05-13

PCT Applications Entering the National Phase

[21] **3,113,578**
[13] A1

[51] **Int.Cl. F16B 47/00 (2006.01) F16B 11/00 (2006.01) F16B 12/46 (2006.01)**

[25] EN

[54] **CLAMPING DEVICE FOR JOINING BOARDS**

[54] **DISPOSITIF DE SERRAGE POUR L'ASSEMBLAGE DE PLANCHES**

[72] NGUYEN, NHON HOA, AU

[71] NGUYEN, NHON HOA, AU

[85] 2021-03-19

[86] 2019-10-05 (PCT/IB2019/058499)

[87] (WO2020/070724)

[30] US (62/741,557) 2018-10-05

[21] **3,113,579**
[13] A1

[51] **Int.Cl. A61K 31/445 (2006.01) A61K 31/4523 (2006.01) A61P 1/16 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING NONALCOHOLIC FATTY LIVER DISEASE, CONTAINING GPR119 LIGAND AS ACTIVE INGREDIENT**

[54] **COMPOSITION PHARMACEUTIQUE PERMETTANT DE PREVENIR OU DE TRAITER UNE STEATOSE HEPATIQUE NON ALCOOLIQUE, CONTENANT UN LIGAND DE GPR119 COMME PRINCIPE ACTIF**

[72] KIM, MI-KYUNG, KR

[72] LEE, BO RAM, KR

[72] PARK, HANSU, KR

[72] LEE, SEUNG HO, KR

[72] CHAE, YU NA, KR

[71] DONG-A ST CO., LTD., KR

[85] 2021-03-30

[86] 2019-09-11 (PCT/KR2019/011839)

[87] (WO2020/055170)

[30] KR (10-2018-0109219) 2018-09-12

[21] **3,113,580**
[13] A1

[51] **Int.Cl. E21B 47/14 (2006.01) H04W 4/00 (2018.01) E21B 47/26 (2012.01) E21B 47/00 (2012.01) H04B 7/185 (2006.01) H04B 11/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MONITORING DISCONNECTED WELLS**

[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE Puits NON RACCORDES**

[72] DA SILVA NOBREGA, MARCOS VINICIUS, BR

[72] ALBUQUERQUE DE SOUZA, MARCIO, BR

[72] LISBOA SANTOS, HUGO FRANCISCO, BR

[72] HERNALSTEENS, CEDRIC, BR

[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR

[85] 2021-03-19

[86] 2019-07-17 (PCT/BR2019/050278)

[87] (WO2020/056474)

[30] BR (BR 10 2018 069281 0) 2018-09-21

[21] **3,113,581**
[13] A1

[51] **Int.Cl. G21D 1/00 (2006.01)**

[25] EN

[54] **DEVICE FOR CAPTURING SHIELDING BALL FOR HEAVY WATER REACTOR**

[54] **APPAREIL DE COLLECTE DE BILLES DE PROTECTION DE REACTEUR A EAU LOURDE**

[72] HWANG, YOUNG HWAN, KR

[72] HWANG, SEOK-JU, KR

[72] LEE, MI-HYUN, KR

[72] KIM, CHEON-WOO, KR

[71] KOREA HYDRO & NUCLEAR POWER CO., LTD., KR

[85] 2021-03-19

[86] 2019-09-20 (PCT/KR2019/012269)

[87] (WO2020/060309)

[30] KR (10-2018-0114255) 2018-09-21

[21] **3,113,584**
[13] A1

[51] **Int.Cl. H04N 19/503 (2014.01) H04N 19/103 (2014.01) H04N 19/119 (2014.01) H04N 19/122 (2014.01) H04N 19/129 (2014.01) H04N 19/176 (2014.01) H04N 19/18 (2014.01) H04N 19/50 (2014.01) H04N 19/61 (2014.01) H04N 19/70 (2014.01)**

[25] EN

[54] **IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR**

[54] **PROCEDE DE CODAGE/DECODAGE DE SIGNAL D'IMAGE ET APPAREIL ASSOCIE**

[72] LEE, BAE KEUN, KR

[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2021-03-19

[86] 2019-09-20 (PCT/KR2019/012291)

[87] (WO2020/060328)

[30] KR (10-2018-0114350) 2018-09-21

[30] KR (10-2018-0114345) 2018-09-21

[30] KR (10-2018-0114346) 2018-09-21

[30] KR (10-2018-0114347) 2018-09-21

[30] KR (10-2019-0022754) 2019-02-26

[21] **3,113,585**
[13] A1

[51] **Int.Cl. H04N 19/109 (2014.01) H04N 19/107 (2014.01) H04N 19/119 (2014.01) H04N 19/122 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/503 (2014.01) H04N 19/513 (2014.01)**

[25] EN

[54] **METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND APPARATUS THEREFOR**

[54] **PROCEDE DE CODAGE/DECODAGE DE SIGNAL D'IMAGE ET APPAREIL ASSOCIE**

[72] LEE, BAE KEUN, KR

[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2021-03-19

[86] 2019-09-20 (PCT/KR2019/012292)

[87] (WO2020/060329)

[30] KR (10-2018-0114348) 2018-09-21

[30] KR (10-2018-0114349) 2018-09-21

[30] KR (10-2018-0148858) 2018-11-27

Demandes PCT entrant en phase nationale

[21] **3,113,586**
[13] A1

[51] **Int.Cl. G01N 21/77 (2006.01) B82Y 15/00 (2011.01)**
[25] EN
[54] **NANOSTRUCTURES FOR IMPROVED MOLECULAR DETECTION**
[54] **NANOSTRUCTURES POUR UNE DETECTION MOLECULAIRE AMELIOREE**
[72] DENOMME, RYAN, CA
[72] STRATHEARN, SARAH, CA
[71] NICOYA LIFESCIENCES, INC., CA
[85] 2021-03-19
[86] 2019-09-24 (PCT/IB2019/058104)
[87] (WO2020/065537)
[30] US (62/735,233) 2018-09-24

[21] **3,113,588**
[13] A1

[51] **Int.Cl. F17D 5/06 (2006.01) G01M 3/24 (2006.01) G01N 29/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETECTING FLOODING IN A FLEXIBLE PIPE FROM A FLEXIBLE PIPE CONNECTOR**
[54] **SYSTEME ET PROCEDE DE DETECTION D'INONDATION DANS UN CONDUIT SOUPLE A PARTIR D'UN RACCORD DU CONDUIT SOUPLE**
[72] SANTOS POLI, PAULO ROBERTO, BR
[72] DA FONSECA JUNIOR, NEI MARIANO, BR
[72] DA SILVA, MARCO ANTONIO, BR
[72] DE CASTILHO SANTOS, JOAO MARCIO, BR
[72] PINTO PIRES, GUSTAVO, BR
[72] MAIA DE SOUZA, CARLOS EDUARDO, BR
[71] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR
[85] 2021-03-19
[86] 2019-09-20 (PCT/BR2019/050414)
[87] (WO2020/056480)
[30] BR (BR1020180692429) 2018-09-21

[21] **3,113,589**
[13] A1

[51] **Int.Cl. A61K 38/00 (2006.01)**
[25] EN
[54] **MODIFIED HUMAN ERYTHROPOIETIN**
[54] **ERYTHROPOIETINE HUMAINE MODIFIEE**
[72] KRATJE, RICARDO, AR
[72] OGGERO-EBERHARDT, MARCOS, AR
[72] BURGI-FISSOLO, MARIA DE LOS MILAGROS, AR
[72] DORELLA, AQUILES, AR
[72] APARICIO, GABRIELA I., AR
[72] ETCHEVERRIGARAY, MARINA, AR
[72] SCORTICATI, CAMILA, AR
[71] UNIVERSIDAD NACIONAL DEL LITORAL, AR
[71] CONSEJO NACIONAL DE INVESTIGACIONES CIENTIFICAS Y TECNICAS (CONICET), AR
[71] UNIVERSIDAD NACIONAL DE GENERAL SAN MARTIN, AR
[85] 2021-03-19
[86] 2019-09-26 (PCT/IB2019/058179)
[87] (WO2020/065576)
[30] AR (20180102793) 2018-09-27

[21] **3,113,590**
[13] A1

[51] **Int.Cl. G06Q 20/00 (2012.01) G06Q 20/32 (2012.01) G06K 19/073 (2006.01) G06K 19/077 (2006.01) H04B 5/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CRYPTOGRAPHIC AUTHENTICATION OF CONTACTLESS CARDS**
[54] **SYSTEMES ET PROCEDES POUR AUTHENTIFICATION CRYPTOGRAPHIQUE DE CARTES SANS CONTACT**
[72] RULE, JEFFREY, US
[72] HERRINGTON, DANIEL, US
[72] HART, COLIN, US
[72] OSBORN, KEVIN, US
[72] HENG, MELISSA, US
[72] JI, JASON, US
[72] ILINCIC, RAJKO, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-03-17
[86] 2019-10-02 (PCT/US2019/054350)
[87] (WO2020/072687)
[30] US (62/740,352) 2018-10-02
[30] US (16/205,119) 2018-11-29
[30] US (16/591,010) 2019-10-02

[21] **3,113,591**
[13] A1

[51] **Int.Cl. H01M 4/96 (2006.01) H01M 8/0234 (2016.01) H01M 8/0245 (2016.01) H01M 8/1004 (2016.01) H01M 8/10 (2016.01)**
[25] EN
[54] **GAS DIFFUSION LAYER, MEMBRANE ELECTRODE ASSEMBLY, AND FUEL CELL**
[54] **COUCHE DE DIFFUSION DE GAZ, ENSEMBLE ELECTRODE A MEMBRANE ET PILE A COMBUSTIBLE**
[72] YAMAMOTO, UMI, JP
[72] UTSUNOMIYA, MASAMICHI, JP
[72] SHIGEMOTO, ISAMU, JP
[72] TANIMURA, YASUAKI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2021-03-19
[86] 2019-06-28 (PCT/JP2019/025767)
[87] (WO2020/066191)
[30] JP (2018-183744) 2018-09-28

[21] **3,113,593**
[13] A1

[51] **Int.Cl. F01D 5/10 (2006.01) F01D 25/06 (2006.01) F04D 29/34 (2006.01) F04D 29/66 (2006.01) F16F 15/14 (2006.01)**
[25] EN
[54] **ROTOR ASSEMBLY AND ROTATING MACHINE**
[54] **ENSEMBLE ROTOR ET MACHINE ROTATIVE**
[72] TOMII, MASAYUKI, JP
[72] AKIMOTO, KENTARO, JP
[71] MITSUBISHI HEAVY INDUSTRIES AERO ENGINES, LTD., JP
[85] 2021-03-19
[86] 2019-07-17 (PCT/JP2019/028167)
[87] (WO2020/066235)
[30] JP (2018-180172) 2018-09-26

PCT Applications Entering the National Phase

[21] **3,113,594**
[13] A1

[51] **Int.Cl. C07K 16/46 (2006.01) C12N 15/09 (2006.01) C12P 21/08 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **ANTIGEN-BINDING MOLECULE COMPRISING ALTERED ANTIBODY VARIABLE REGION**

[54] **MOLECULE DE LIAISON A L'ANTIGENE COMPRENANT UNE REGION VARIABLE D'ANTICORPS MODIFIEE**

[72] IGAWA, TOMOYUKI, SG
[72] FENG, SHU, SG
[72] HO, SHU WEN SAMANTHA, SG
[72] SHIRAIWA, HIROTAKE, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2021-03-19
[86] 2019-09-27 (PCT/JP2019/038087)
[87] (WO2020/067399)
[30] JP (2018-185120) 2018-09-28

[21] **3,113,596**
[13] A1

[51] **Int.Cl. G01M 17/007 (2006.01)**

[25] EN

[54] **VEHICLE INSPECTION SYSTEM**

[54] **SYSTEME D'INSPECTION DE VEHICULE**

[72] MATSUDA, SHOJI, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-03-19
[86] 2019-09-02 (PCT/JP2019/034426)
[87] (WO2020/059472)
[30] JP (2018-178005) 2018-09-21

[21] **3,113,597**
[13] A1

[51] **Int.Cl. G01M 17/007 (2006.01) B60W 30/09 (2012.01) B60W 30/16 (2020.01) B60W 40/02 (2006.01)**

[25] EN

[54] **VEHICLE INSPECTION SYSTEM**

[54] **SYSTEME D'INSPECTION DE VEHICULE**

[72] AONO, KENTO, JP
[72] KATAMINE, TAKESHI, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-03-19
[86] 2019-09-04 (PCT/JP2019/034811)
[87] (WO2020/059496)
[30] JP (2018-177984) 2018-09-21

[21] **3,113,598**
[13] A1

[51] **Int.Cl. B32B 27/32 (2006.01) B32B 7/02 (2019.01) C09D 5/00 (2006.01) C09D 133/00 (2006.01)**

[25] EN

[54] **AUTOMOBILE PARTS**

[54] **PIECE DE VEHICULE**

[72] TAKATA, SHINYA, JP
[72] HAYASHI, YUMIKO, JP
[72] TORIYAMA, EMI, JP
[72] NAKANE, KEN, JP
[71] NIPPON PAINT AUTOMOTIVE COATINGS CO., LTD., JP
[85] 2021-03-19
[86] 2019-10-08 (PCT/JP2019/039595)
[87] (WO2020/075697)
[30] JP (2018-190944) 2018-10-09

[21] **3,113,599**
[13] A1

[51] **Int.Cl. A01N 57/20 (2006.01) A01N 25/02 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **HERBICIDE COMPOSITION**

[54] **COMPOSITION HERBICIDE**

[72] UI, TAKAHITO, JP
[71] KAO CORPORATION, JP
[85] 2021-03-19
[86] 2019-10-30 (PCT/JP2019/042512)
[87] (WO2020/090866)
[30] JP (2018-205094) 2018-10-31

[21] **3,113,600**
[13] A1

[51] **Int.Cl. G01M 17/007 (2006.01)**

[25] EN

[54] **VEHICLE INSPECTION SYSTEM AND VEHICLE INSPECTION METHOD**

[54] **SYSTEME ET PROCEDE D'INSPECTION DE VEHICULE**

[72] AONO, KENTO, JP
[72] JITSUI, TATSUYA, JP
[72] KURAI, KENICHIRO, JP
[72] FUKUDA, YUICHI, JP
[72] WATANABE, YASUSHI, JP
[71] HONDA MOTOR CO., LTD., JP
[85] 2021-03-19
[86] 2019-09-10 (PCT/JP2019/035475)
[87] (WO2020/059570)
[30] JP (2018-177995) 2018-09-21

[21] **3,113,601**
[13] A1

[51] **Int.Cl. B01D 33/00 (2006.01) C02F 11/121 (2019.01) B01D 29/17 (2006.01) B01D 29/25 (2006.01) B01D 29/37 (2006.01)**

[25] EN

[54] **SOLID-LIQUID SEPARATION DEVICE**

[54] **APPAREIL DE SEPARATION SOLIDE-LIQUIDE**

[72] WADA, KOJI, JP
[72] BANNO, KIMITAKE, JP
[72] YAMASAKI, TAKASHI, JP
[72] ZHENG, CHAOZHI, CN
[72] AYEMPEROUMAL, KEVIN, CZ
[71] AMUKON KABUSHIKI KAISHA, JP
[85] 2021-03-19
[86] 2019-11-26 (PCT/JP2019/046058)
[87] (WO2020/170538)
[30] JP (2019-028925) 2019-02-20

[21] **3,113,602**
[13] A1

[51] **Int.Cl. G06T 7/50 (2017.01) A43D 1/02 (2006.01)**

[25] EN

[54] **SIZE MEASUREMENT SYSTEM**

[54] **SYSTEME DE MESURE DE TAILLE**

[72] MAEZAWA, YUSAKU, JP
[71] ZOZO, INC., JP
[85] 2021-03-19
[86] 2019-09-17 (PCT/JP2019/036402)
[87] (WO2020/059716)
[30] JP (2018-178086) 2018-09-21
[30] JP (PCT/JP2019/014227) 2019-03-29

[21] **3,113,603**
[13] A1

[51] **Int.Cl. G21D 1/00 (2006.01)**

[25] EN

[54] **DEVICE FOR SEPARATING SHIELDING SLAB FOR HEAVY WATER REACTOR**

[54] **APPAREIL DE SEPARATION DE DALLE DE PROTECTION POUR REACTEUR A EAU LOURDE**

[72] HWANG, YOUNG HWAN, KR
[72] HWANG, SEOK-JU, KR
[72] YOON, JU-YOUNG, KR
[72] KIM, CHEON-WOO, KR
[71] KOREA HYDRO & NUCLEAR POWER CO., LTD., KR
[85] 2021-03-19
[86] 2019-09-20 (PCT/KR2019/012294)
[87] (WO2020/060331)
[30] KR (10-2018-0114254) 2018-09-21

Demandes PCT entrant en phase nationale

[21] **3,113,604**
[13] A1

[51] **Int.Cl. C07K 16/42 (2006.01) A61K 39/395 (2006.01) A61P 37/08 (2006.01) G01N 33/53 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**

[25] EN

[54] **ANTI-IGE ANTIBODY SPECIFICALLY BINDING TO MEMBRANE-BOUND IGE ANTIBODY OF IGE ANTIBODY-PRODUCING B CELLS AND METHOD FOR DIAGNOSING AND TREATING ALLERGIC SYMPTOMS USING THE SAME**

[54] **ANTICORPS ANTI-IGE SE LIANT DE MANIERE SPECIFIQUE A UN ANTICORPS IGE LIE A UNE MEMBRANE DE LYMPHOCYTES B PRODUISANT UN ANTICORPS IGE ET METHODE DE DIAGNOSTIC ET DE TRAITEMENT DE S YMPTOMES ALLERGIQUES L'UTILISANT**

[72] MASUDA, KENICHI, JP

[72] SAITO, TAKASHI, JP

[71] RIKEN, JP

[71] ANIMAL ALLERGY CLINICAL LABORATORIES INC., JP

[85] 2021-03-19

[86] 2019-09-20 (PCT/JP2019/036864)

[87] (WO2020/059832)

[30] JP (2018-176768) 2018-09-21

[21] **3,113,605**
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **NOVEL BISPECIFIC ANTIBODIES FOR USE IN THE TREATMENT OF HEMATOLOGICAL MALIGNANCIES**

[54] **NOUVEAUX ANTICORPS BISPECIFIQUES DESTINES A ETRE UTILISES DANS LE TRAITEMENT D'HEMOPATHIES MALIGNES**

[72] DE WEERDT, IRIS, NL

[72] KATER, ARNON PHILIP, NL

[72] PARREN, PAUL WILLEM HENRI IDA, NL

[72] DE GRUIJL, TANJA DENISE, NL

[72] VAN DER VLIET, JOHANNES JELLE, NL

[72] LAMERIS, ROELAND, NL

[71] LAVA THERAPEUTICS B.V., NL

[85] 2021-03-19

[86] 2019-09-19 (PCT/NL2019/050625)

[87] (WO2020/060406)

[30] NL (2021664) 2018-09-19

[21] **3,113,606**
[13] A1

[51] **Int.Cl. C07D 211/60 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING AMINO ACID DERIVATIVES**

[54] **PROCEDE DE PRODUCTION DE DERIVES D'ACIDE AMINE**

[72] MURAI, MASATO, JP

[72] TAKEHARA, JUN, JP

[72] OKADO, DAIKI, JP

[71] API CORPORATION, JP

[85] 2021-03-19

[86] 2019-09-24 (PCT/JP2019/037399)

[87] (WO2020/059891)

[30] JP (2018-177774) 2018-09-21

[21] **3,113,607**
[13] A1

[51] **Int.Cl. C12N 1/16 (2006.01) C07K 14/39 (2006.01) C12C 11/00 (2006.01) C12N 15/00 (2006.01) C12N 15/04 (2006.01) C12N 15/31 (2006.01)**

[25] EN

[54] **MALTOTRIOSE METABOLIZING MUTANTS OF SACCHAROMYCES EUBAYANUS**

[54] **MUTANTS DE SACCHAROMYCES EUBAYANUS METABOLISANT LE MALTOTRIOSE**

[72] BROUWERS, NICK, NL

[72] DE VRIES, ARTHUR ROELOF GORTER, NL

[72] DARAN, JEAN-MARC GEORGES, NL

[72] KUIJPERS, NIELS GERARD ADRIAAN, NL

[71] HEINEKEN SUPPLY CHAIN B.V., NL

[85] 2021-03-19

[86] 2019-09-24 (PCT/NL2019/050640)

[87] (WO2020/067890)

[30] EP (18196406.5) 2018-09-24

[30] EP (18213697.8) 2018-12-18

[21] **3,113,608**
[13] A1

[51] **Int.Cl. C12N 5/071 (2010.01) A61K 35/12 (2015.01) A61P 3/10 (2006.01) A61P 5/50 (2006.01)**

[25] EN

[54] **INSULIN-PRODUCING CELLS**

[54] **CELLULES PRODUISANT DE L'INSULINE**

[72] ITO, RYO, JP

[72] YAMAZOE, NORIKO, JP

[72] HIYOSHI, HIDEYUKI, JP

[72] MOCHIDA, TAISUKE, JP

[72] UENO, HIKARU, JP

[72] SAKUMA, KENSUKE, JP

[72] YAMAURA, JUNJI, JP

[72] MATSUMOTO, HIROKAZU, JP

[72] TOYODA, TARO, JP

[72] KONAGAYA, SHUHEI, JP

[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP

[71] KYOTO UNIVERSITY, JP

[85] 2021-03-19

[86] 2019-09-18 (PCT/JP2019/037725)

[87] (WO2020/059892)

[30] JP (2018-175465) 2018-09-19

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[21] **3,113,609**
[13] A1

[51] **Int.Cl. E02D 27/01 (2006.01) E02D 27/00 (2006.01) E03B 3/02 (2006.01) E03B 3/03 (2006.01) E03B 11/14 (2006.01) E04B 1/16 (2006.01) E04C 3/29 (2006.01)**

[25] EN

[54] **PERMANENT FORM FOR FORMING CONCRETE STRUCTURES**

[54] **COFFRAGE PERDU POUR LA FORMATION DE STRUCTURES EN BETON**

[72] TAKAI, SEIICHIRO, JP

[71] TOTETU MFG. CO. LTD., JP

[85] 2021-03-19

[86] 2019-09-26 (PCT/JP2019/037732)

[87] (WO2020/075505)

[30] JP (2018-190711) 2018-10-09

[21] **3,113,614**
[13] A1

[51] **Int.Cl. B65G 1/137 (2006.01) B25J 9/02 (2006.01) B65G 1/04 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR AUTOMATED STORAGE, PICKING, AND PACKING OF ITEMS**

[54] **SYSTEME ET PROCEDE DE STOCKAGE, DE PREPARATION ET DE CONDITIONNEMENT AUTOMATISES D'ARTICLES**

[72] THORHALLSSON, TORFI, IS

[72] HAUKSDOTTIR, HAFRUN, NO

[72] GJERDE, KJETIL, NO

[72] MARNBURG ERIKSEN, SIMON, NO

[72] JANSEN BERGE, MIKAL, NO

[71] PICKR AS, NO

[85] 2021-03-19

[86] 2019-09-30 (PCT/NO2019/050200)

[87] (WO2020/067907)

[30] NO (20181263) 2018-09-28

[21] **3,113,615**
[13] A1

[51] **Int.Cl. H01G 11/80 (2013.01) H01G 11/24 (2013.01) H01G 11/52 (2013.01) H01G 11/54 (2013.01)**

[25] EN

[54] **CHIP FORM ULTRACAPACITOR**

[54] **ULTRACONDENSATEUR EN FORME DE PUCE**

[72] BRAMBILLA, NICOLO, US

[72] HYDE, JOHN, US

[72] ANDREE, WYATT, US

[72] KALABATHULA, SUSHEEL M.J., US

[72] LANE, JOSEPH K., US

[71] FASTCAP SYSTEMS CORPORATION, US

[85] 2021-03-19

[86] 2018-10-03 (PCT/US2018/054231)

[87] (WO2019/070897)

[30] US (62/567,752) 2017-10-03

[21] **3,113,616**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06Q 10/06 (2012.01)**

[25] EN

[54] **TECHNIQUES FOR BEHAVIORAL PAIRING IN A MULTISTAGE TASK ASSIGNMENT SYSTEM**

[54] **TECHNIQUES D'APPARIEMENT COMPORTEMENTAL DANS UN SYSTEME D'ATTRIBUTION DE TACHES A ETAPES MULTIPLES**

[72] DELELLIS, DAVID J., US

[72] HOLL, RANDAL E., US

[71] AFINITI, LTD., BM

[85] 2021-03-19

[86] 2019-02-27 (PCT/US2019/019706)

[87] (WO2020/117300)

[30] US (16/209,295) 2018-12-04

[21] **3,113,617**
[13] A1

[51] **Int.Cl. B65D 43/02 (2006.01)**

[25] EN

[54] **TAMPER EVIDENT CLOSURE**

[54] **FERMETURE INVOLABLE**

[72] STEVENS, JAMES P., US

[71] SONOCO DEVELOPMENT, INC., US

[85] 2021-03-19

[86] 2019-07-26 (PCT/US2019/043665)

[87] (WO2020/060670)

[30] US (16/135,246) 2018-09-19

[21] **3,113,618**
[13] A1

[51] **Int.Cl. C07K 14/52 (2006.01) A61K 38/19 (2006.01) C07K 14/78 (2006.01) C12N 15/85 (2006.01)**

[25] EN

[54] **COLLAGEN-LOCALIZED IMMUNOMODULATORY MOLECULES AND METHODS THEREOF**

[54] **MOLECULES IMMUNOMODULATRICES LOCALISEES DANS LE COLLAGENE ET LEURS PROCEDES**

[72] WITTRUP, KARL DANE, US

[72] MOMIN, NOOR, US

[72] PALMERI, JOSEPH, US

[72] CHINN, MAGNOLIA, US

[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US

[85] 2021-03-19

[86] 2019-07-26 (PCT/US2019/043805)

[87] (WO2020/068261)

[30] US (62/738,981) 2018-09-28

[21] **3,113,619**
[13] A1

[51] **Int.Cl. G06F 9/48 (2006.01) G06Q 10/10 (2012.01)**

[25] EN

[54] **COMPUTER SYSTEM PROVIDING MIRRORED SAAS APPLICATION SESSIONS AND RELATED METHODS**

[54] **SYSTEME INFORMATIQUE FOURNISSANT DES SESSIONS D'APPLICATIONS SAAS EN MIROIR ET PROCEDES ASSOCIES**

[72] DING, JIAN, CN

[71] CITRIX SYSTEMS, INC., US

[85] 2021-03-19

[86] 2019-08-06 (PCT/US2019/045199)

[87] (WO2020/086138)

[30] US (16/171,618) 2018-10-26

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[21] **3,113,620**
[13] A1

[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **ALCOHOL CONCENTRATE FILLING SYSTEMS AND METHODS OF USE THEREOF**
[54] **SYSTEMES DE REMPLISSAGE DE CENTRE D'ALCOOL ET PROCEDES D'UTILISATION DE CEUX-CI**
[72] LUKAC, JURE, SI
[72] ZVER, STANKO, SI
[72] ROBBINS, JUSTIN, US
[72] EDWARDS, PETER, US
[72] GOSSELIN, PETER, US
[71] BEDFORD SYSTEMS LLC, US
[85] 2021-03-19
[86] 2019-08-23 (PCT/US2019/047960)
[87] (WO2020/041737)
[30] US (62/722,822) 2018-08-24

[21] **3,113,621**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 35/00 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT OF CANCER COMPRISING CDC7 INHIBITORS**
[54] **METHODES DE TRAITEMENT DU CANCER COMPRENANT DES INHIBITEURS DE CDC7**
[72] HASSIG, CHRISTIAN ANDREW, US
[72] HANSEN, RYAN JAMES, US
[72] MILUTINOVIC, SNEZANA, US
[72] STROUSE, BRYAN WILLIAM, US
[71] SIERRA ONCOLOGY, INC., US
[85] 2021-03-19
[86] 2019-08-28 (PCT/US2019/048657)
[87] (WO2020/068347)
[30] US (62/735,778) 2018-09-24
[30] US (62/760,638) 2018-11-13
[30] US (PCT/US2019/019676) 2019-02-26

[21] **3,113,622**
[13] A1

[51] **Int.Cl. C08F 210/16 (2006.01) C08F 4/6592 (2006.01) F16L 9/00 (2006.01) C08F 210/14 (2006.01)**
[25] EN
[54] **BIMODAL POLYETHYLENE COPOLYMER COMPOSITION AND PIPE MADE THEREOF**
[54] **COMPOSITION DE COPOLYMER BIMODAL DE POLYETHYLENE ET TUYAU FABRIQUE A PARTIR DE CETTE COMPOSITION**
[72] MURE, CLIFF R., US
[72] LYNN, TIMOTHY R., US
[72] KUHLMAN, ROGER L., US
[72] SZUL, JOHN F., US
[72] PADILLA-ACEVEDO, ANGELA I., US
[71] UNIVATION TECHNOLOGIES, LLC, US
[85] 2021-03-19
[86] 2019-09-10 (PCT/US2019/050362)
[87] (WO2020/068413)
[30] US (62/737,965) 2018-09-28

[21] **3,113,623**
[13] A1

[51] **Int.Cl. G06F 9/50 (2006.01) G06Q 10/06 (2012.01)**
[25] EN
[54] **TECHNIQUES FOR ADAPTING BEHAVIORAL PAIRING TO RUNTIME CONDITIONS IN A TASK ASSIGNMENT SYSTEM**
[54] **TECHNIQUES D'ADAPTATION D'UN APPARIEMENT COMPORTEMENTAL A DES CONDITIONS D'EXECUTION DANS UN SYSTEME D'ATTRIBUTION DE TACHES**
[72] RIZVI, SYED MEESUM RAZA, PK
[72] KHATRI, VIKASH, US
[71] AFINITI, LTD., BM
[85] 2021-03-19
[86] 2019-02-27 (PCT/US2019/019704)
[87] (WO2020/068152)
[30] US (16/146,783) 2018-09-28

[21] **3,113,626**
[13] A1

[51] **Int.Cl. H04L 29/06 (2006.01) G06K 9/00 (2006.01) G06K 9/62 (2006.01)**
[25] EN
[54] **MACHINE LEARNING CLUSTERING MODELS FOR DETERMINING THE CONDITION OF A COMMUNICATION SYSTEM**
[54] **MODELES DE REGROUPEMENT D'APPRENTISSAGE AUTOMATIQUE POUR DETERMINER L'ETAT D'UN SYSTEME DE COMMUNICATION**
[72] ARORA, AMIT, US
[72] GHARPURAY, ARCHANA, US
[72] KENYON, JOHN, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2021-03-19
[86] 2019-07-25 (PCT/US2019/043374)
[87] (WO2020/060669)
[30] US (16/135,182) 2018-09-19

[21] **3,113,628**
[13] A1

[51] **Int.Cl. C07F 17/00 (2006.01) C07C 49/623 (2006.01) C07C 49/633 (2006.01)**
[25] EN
[54] **SYNTHESIS OF SUBSTITUTED CYCLOPENTADIENE COMPOUNDS AND METALLOCENES**
[54] **SYNTHESE DE COMPOSES DE CYCLOPENTADIENE SUBSTITUES ET DE METALLOCENES**
[72] PADILLA-ACEVEDO, ANGELA I., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2021-03-19
[86] 2019-09-11 (PCT/US2019/050546)
[87] (WO2020/068420)
[30] US (62/737,974) 2018-09-28

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[21] **3,113,629**
[13] A1

[51] **Int.Cl. C08J 5/18 (2006.01) B32B 27/08 (2006.01) B32B 27/32 (2006.01) C08J 7/04 (2020.01)**

[25] EN

[54] **COATED HEAT-SHRINKABLE FILMS**

[54] **FILMS THERMORETRACTABLES REVETUS**

[72] VALLE, CAMILA DO, BR

[72] CASARRUBIAS, JUAN CARLOS, MX

[72] SOLARI, SERGIO ARIEL, AR

[72] ZANETTI, MAXIMILIANO, AR

[72] OLIVEIRA, MARLOS GIUNTINI DE, BR

[72] GOMES, JORGE CAMINERO, BR

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[71] ROHM AND HAAS COMPANY, US

[71] PBBPOLISUR S.R.L, AR

[85] 2021-03-19

[86] 2019-09-11 (PCT/US2019/050563)

[87] (WO2020/068422)

[30] US (62/738,022) 2018-09-28

[21] **3,113,630**
[13] A1

[51] **Int.Cl. G06Q 30/00 (2012.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR PROVIDING RECOMMENDATIONS BASED ON CONSUMER LOCATION**

[54] **SYSTEME ET PROCEDE POUR FOURNIR DES RECOMMANDATIONS SUR LA BASE D'UN EMPLACEMENT DE CONSOMMATEUR**

[72] AGARWAL, PAVAN, US

[72] RIVERA, JONATHAN ORTIZ, US

[72] SANCHEZ, GABRIEL ALBORS, US

[71] PAG FINANCIAL INTERNATIONAL LLC, US

[85] 2021-03-19

[86] 2019-09-11 (PCT/US2019/050688)

[87] (WO2020/060827)

[30] US (16/137,460) 2018-09-20

[21] **3,113,631**
[13] A1

[51] **Int.Cl. B27B 17/10 (2006.01) B27B 17/08 (2006.01) F02N 11/12 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR STARTING A SMALL COMBUSTION ENGINE**

[54] **PROCEDE ET APPAREIL DE DEMARRAGE D'UN PETIT MOTEUR A COMBUSTION**

[72] BUDDEN, DOYLE, CA

[71] BUDDEN, DOYLE, CA

[85] 2021-01-20

[86] 2017-08-29 (PCT/CA2017/051009)

[87] (WO2018/032118)

[30] US (15/655,659) 2017-07-20

[21] **3,113,632**
[13] A1

[51] **Int.Cl. B27B 17/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR STARTING A SMALL COMBUSTION ENGINE**

[54] **PROCEDE ET APPAREIL POUR DEMARRER UN PETIT MOTEUR A COMBUSTION EXTERNE**

[72] BUDDEN, DOYLE, CA

[71] BUDDEN, DOYLE, CA

[85] 2021-01-20

[86] 2018-03-12 (PCT/CA2018/050297)

[87] (WO2018/126327)

[30] US (15/655,659) 2017-07-20

[21] **3,113,633**
[13] A1

[51] **Int.Cl. H04L 12/26 (2006.01) H04L 12/24 (2006.01)**

[25] EN

[54] **COMMAND INTERCEPTION**

[54] **INTERCEPTION DE COMMANDE**

[72] TESOVIC, MILUN, CA

[72] KING, JACOB, CA

[72] BOWYER, MARTIN, CA

[72] TAYLOR, JASON, CA

[72] GIASSA, MATTHEW, CA

[71] CMD WATCH SECURITY INC., CA

[85] 2021-03-05

[86] 2018-09-05 (PCT/IB2018/056786)

[87] (WO2019/049051)

[30] US (15/698,286) 2017-09-07

[21] **3,113,634**
[13] A1

[51] **Int.Cl. B26B 19/06 (2006.01) B26B 19/20 (2006.01)**

[25] EN

[54] **ADJUSTABLE BLADE ASSEMBLY HAVING MAGNETIC TENSIONING**

[54] **ENSEMBLE LAME REGLABLE PRESENTANT UNE TENSION MAGNETIQUE**

[72] WERNER, EDWIN ALEN, US

[72] TRINGALI, RICHARD J., US

[72] TITZKOWSKI, ERVIN, US

[72] NOVAK, JOSEPH, US

[72] GROSS, JEFFREY D., US

[71] ANDIS COMPANY, US

[85] 2021-02-05

[86] 2019-08-15 (PCT/US2019/046656)

[87] (WO2020/037124)

[30] US (62/719,281) 2018-08-17

[30] US (62/830,829) 2019-04-08

[21] **3,113,635**
[13] A1

[51] **Int.Cl. F16B 25/10 (2006.01) F16B 25/00 (2006.01)**

[25] EN

[54] **FASTENER WITH CONTINUOUS DETENT REGION**

[54] **ELEMENT DE FIXATION AVEC REGION DE DETENTE CONTINUE**

[72] HOUCK, JOEL, US

[71] SIMPSON STRONG-TIE COMPANY, INC., US

[85] 2021-03-19

[86] 2019-09-16 (PCT/US2019/051248)

[87] (WO2020/060902)

[30] US (16/137,502) 2018-09-20

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[21] **3,113,636**
[13] A1

[51] **Int.Cl. A61M 21/02 (2006.01) G16H 20/70 (2018.01) A61B 5/00 (2006.01) A61B 5/024 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR FACILITATING THE TRANSITION BETWEEN A CONSCIOUS AND UNCONSCIOUS STATE**

[54] **PROCEDE ET SYSTEME PERMETTANT DE FACILITER LA TRANSITION ENTRE UN ETAT CONSCIENT ET UN ETAT INCONSCIENT**

[72] KOCHMAN, CARY, US
[71] KOCHMAN, CARY, US
[85] 2021-03-19
[86] 2019-09-19 (PCT/US2019/051945)
[87] (WO2020/068555)
[30] US (62/736,786) 2018-09-26
[30] US (16/272,443) 2019-02-11

[21] **3,113,637**
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) C12N 5/076 (2010.01) A61B 17/43 (2006.01) A61P 31/12 (2006.01) A61P 31/18 (2006.01)**

[25] EN

[54] **OKRA-DERIVED ANTIVIRAL COMPOSITION AND USES THEREOF**

[54] **COMPOSITION ANTIVIRALE DERIVEE DE GOMBO ET UTILISATIONS DE CELLE-CI**

[72] ARCHIBONG, ANTHONY, US
[72] LIU, BINDONG, US
[72] BATES, G. WILLIAM, US
[72] EZEKAKPU, ELOCHUKWU, US
[72] HILDRETH, JAMES E.K., US
[72] SIMON, LORIN W., US
[71] MEHARRY MEDICAL COLLEGE, US
[85] 2021-03-19
[86] 2019-09-16 (PCT/US2019/051330)
[87] (WO2020/060934)
[30] US (62/734,663) 2018-09-21

[21] **3,113,638**
[13] A1

[51] **Int.Cl. H04B 7/06 (2006.01) H04W 24/10 (2009.01) H04B 7/0417 (2017.01) H04L 5/00 (2006.01)**

[25] EN

[54] **CHANNEL STATE INFORMATION REFERENCE SIGNAL**

[54] **SIGNAUX DE REFERENCE D'INFORMATIONS D'ETAT DE CANAL**

[72] CHO, CHOONG WON, US
[72] PARK, JEONGHWAN, US
[71] TECHNOLOGY IN ARISCALE, LLC, US
[71] ARISCALE INC, KR
[85] 2021-03-19
[86] 2019-09-19 (PCT/US2019/052001)
[87] (WO2020/061361)
[30] US (62/734,902) 2018-09-21

[21] **3,113,639**
[13] A1

[51] **Int.Cl. G06Q 20/08 (2012.01) G06Q 20/38 (2012.01)**

[25] EN

[54] **PRE-BUILT USER INTERFACE FOR PAYMENT SYSTEM AND METHOD**

[54] **INTERFACE D'UTILISATEUR PRECONSTRUITE POUR SYSTEME ET PROCEDE DE PAIEMENT**

[72] SHARMA, SANKATE, US
[72] RAMOS, FACUNDO, US
[71] JPMORGAN CHASE BANK, N.A., US
[85] 2021-03-19
[86] 2019-09-18 (PCT/US2019/051617)
[87] (WO2020/061126)
[30] US (62/734,332) 2018-09-21

[21] **3,113,640**
[13] A1

[51] **Int.Cl. C12N 5/07 (2010.01) C12N 5/079 (2010.01)**

[25] EN

[54] **METHODS FOR DIFFERENTIATING PLURIPOTENT STEM CELLS IN DYNAMIC SUSPENSION CULTURE**

[54] **METHODES DE DIFFERENCIATION DE CELLULES SOUCHES PLURIPOTENTES D'UNE CULTURE EN SUSPENSION DYNAMIQUE**

[72] NAIR, REKHA R., US
[72] KAYSER, STEPHANIE, US
[72] PARIKH, ABHIRATH S., US
[72] SHOUKAT-MUMTAZ, UZMA, US
[72] WHITELEY, ERIK MICHAEL, US
[72] MANLEY, NATHAN C., US
[72] HALBERSTADT, CRAIG R., US
[71] LINEAGE CELL THERAPEUTICS, INC., US
[85] 2021-03-19
[86] 2019-09-19 (PCT/US2019/052015)
[87] (WO2020/061371)
[30] US (62/733,621) 2018-09-19

[21] **3,113,641**
[13] A1

[25] EN

[54] **METHOD TO REDUCE NOISE AND VIBRATION IN A JOINTED WIND TURBINE BLADE, AND ASSOCIATED WIND TURBINE BLADE**

[54] **PROCEDE DE REDUCTION DU BRUIT ET DES VIBRATIONS DANS UNE PALE D'EOLIENNE ARTICULEE, ET PALE D'EOLIENNE ASSOCIEE**

[72] MERZHAUSER, THOMAS, DE
[72] HERRIG, ANDREAS, DE
[71] GENERAL ELECTRIC COMPANY, US
[85] 2021-03-19
[86] 2019-09-19 (PCT/US2019/051869)
[87] (WO2020/068542)
[30] US (16/139,185) 2018-09-24

PCT Applications Entering the National Phase

[21] **3,113,642**
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) C12N 1/16 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**

[25] EN

[54] **ENGINEERED MICROORGANISMS AND METHODS OF MAKING AND USING SAME**

[54] **MICROORGANISMES MODIFIES ET PROCEDES DE FABRICATION ET D'UTILISATION ASSOCIES**

[72] DANTAS, GAUTAM, US

[72] KWAK, SURYANG, US

[72] VIRGIN, HERBERT, US

[71] WASHINGTON UNIVERSITY, US

[71] VIR BIOTECHNOLOGY, INC., US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052044)

[87] (WO2020/061389)

[30] US (62/733,896) 2018-09-20

[21] **3,113,643**
[13] A1

[51] **Int.Cl. B05B 11/00 (2006.01) B65D 47/34 (2006.01) B65D 83/76 (2006.01)**

[25] EN

[54] **VARIABLE DOSE CONTAINER**

[54] **CONTENANT DOSEUR VARIABLE**

[72] ORNOSKI, GREGORY A., US

[72] SABHERWAL, AMIT, US

[71] GLAXOSMITHKLINE CONSUMER HEALTHCARE HOLDINGS (US) LLC, US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052069)

[87] (WO2020/061402)

[30] US (62/733,841) 2018-09-20

[30] US (62/781,688) 2018-12-19

[21] **3,113,644**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **USE OF GABOXADOL FOR THE TREATMENT OF TOURETTE SYNDROME, TICS AND STUTTERING**

[54] **UTILISATION DE GABOXADOL POUR LE TRAITEMENT DU SYNDROME DE GILLES DE LA TOURETTE, DE TICS ET DU BEGAIEMENT**

[72] DURING, MATTHEW, US

[71] OVID THERAPEUTICS INC., US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052085)

[87] (WO2020/061410)

[30] US (62/733,730) 2018-09-20

[21] **3,113,645**
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) C12N 5/00 (2006.01)**

[25] EN

[54] **TARGETING MOIETY-DRUG GRAFTED IMMUNE CELL COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS DE CELLULES IMMUNITAIRES GREFFEES CIBLANT UN COMPLEXE FRACTION-MEDICAMENT ET PROCEDES D'UTILISATION ASSOCIES**

[72] WON, YOUNGWOOK, US

[72] BULL, DAVID A., US

[72] LEE, DANIEL YONGWON, US

[71] ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA, US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052097)

[87] (WO2020/061419)

[30] US (62/733,929) 2018-09-20

[21] **3,113,646**
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01) G06F 1/20 (2006.01)**

[25] EN

[54] **LIQUID IMMERSION COOLING PLATFORM**

[54] **PLATE-FORME DE REFROIDISSEMENT PAR IMMERSION DANS UN LIQUIDE**

[72] ENRIGHT, JOHN DAVID, US

[72] MERTEL, JACOB, US

[71] TMGCORE, LLC, US

[85] 2021-03-19

[86] 2019-09-19 (PCT/US2019/051924)

[87] (WO2020/061305)

[30] US (62/733,430) 2018-09-19

[30] US (62/746,254) 2018-10-16

[30] US (16/165,594) 2018-10-19

[30] US (62/768,633) 2018-11-16

[30] US (16/283,181) 2019-02-22

[30] US (62/815,682) 2019-03-08

[30] US (62/875,222) 2019-07-17

[30] US (62/897,457) 2019-09-09

[21] **3,113,647**
[13] A1

[51] **Int.Cl. C07K 14/11 (2006.01) G16B 30/10 (2019.01) A61K 39/145 (2006.01) A61P 31/16 (2006.01) C07K 17/00 (2006.01) C12N 7/01 (2006.01) C12N 15/44 (2006.01)**

[25] EN

[54] **METHODS OF MAKING AND USING UNIVERSAL CENTRALIZED INFLUENZA VACCINE GENES**

[54] **PROCEDES DE FABRICATION ET D'UTILISATION DE GENES DE VACCINS ANTI-GRIPPAUX CENTRALISES UNIVERSELS**

[72] WEAVER, ERIC ANTHONY, US

[71] BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052137)

[87] (WO2020/061443)

[30] US (62/734,791) 2018-09-21

Demandes PCT entrant en phase nationale

[21] **3,113,648**
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/7105 (2006.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01) A61P 3/00 (2006.01) C12N 7/01 (2006.01) C12N 15/11 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS TO RESTORE PATERNAL UBE3A GENE EXPRESSION IN HUMAN ANGELMAN SYNDROME**

[54] **COMPOSITIONS ET PROCEDES POUR RESTAURER L'EXPRESSION DU GENE UBE3A PATERNEL DANS LE SYNDROME D'ANGELMAN HUMAIN**

[72] CHAMBERLAIN, STORMY, US
[72] GERMAIN, NOELLE, US
[71] UNIVERSITY OF CONNECTICUT, US

[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052272)
[87] (WO2020/061528)
[30] US (62/734,435) 2018-09-21

[21] **3,113,649**
[13] A1

[51] **Int.Cl. A23K 10/12 (2016.01) A23K 10/30 (2016.01) A23K 50/75 (2016.01) A23L 15/00 (2016.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR INTRODUCTION OF ODD-CHAIN FATTY ACIDS INTO POULTRY EGGS**

[54] **COMPOSITIONS ET PROCEDES POUR L'INTRODUCTION D'ACIDES GRAS A CHAINES IMPAIRES DANS DES OUFES DE VOLAILLE**

[72] EVANS, JAMIE, US
[72] LAMONT, MICHEAL, US
[71] HELIAE DEVELOPMENT, LLC, US

[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052143)
[87] (WO2020/061445)
[30] US (62/734,437) 2018-09-21

[21] **3,113,650**
[13] A1

[51] **Int.Cl. A61B 6/04 (2006.01) A61F 5/37 (2006.01) A61G 7/10 (2006.01) A61G 13/10 (2006.01) A61G 13/12 (2006.01)**

[25] EN

[54] **A SLED-TABLE FOR RADIOGRAPHIC IMAGING AND MEDICAL DEVICE INTEGRATION**

[54] **TABLE A PATIN POUR IMAGERIE RADIOGRAPHIQUE ET INTEGRATION DE DISPOSITIF MEDICAL**

[72] WILSON, ROBERT F., US
[72] GAINOR, JOHN P., US
[72] MONTAGUE, JAMES, US
[72] VALETI, UMA S., US
[71] EGG MEDICAL, INC., US

[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052280)
[87] (WO2020/061534)
[30] US (62/734,190) 2018-09-20

[21] **3,113,651**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 9/19 (2006.01)**

[25] EN

[54] **PREPARATION OF LIPID NANOPARTICLES AND METHODS OF ADMINISTRATION THEREOF**

[54] **PREPARATION DE NANOPARTICULES LIPIDIQUES ET LEURS METHODES D'ADMINISTRATION**

[72] HORHOTA, ALLEN, US
[72] MCLAUGHLIN, CHRISTOPHER KARL, US
[72] CHENEY, JESSICA, US
[72] GELDHOFF, BEN, US
[72] HRKACH, JEFFREY, US
[72] MOORE, MELISSA J., US
[72] HOGE, STEPHEN G., US
[71] MODERNATX, INC., US

[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052160)
[87] (WO2020/061457)
[30] US (62/733,974) 2018-09-20

[21] **3,113,653**
[13] A1

[51] **Int.Cl. H02M 3/335 (2006.01)**

[25] EN

[54] **EFFICIENT ELECTRICITY CONVERSION FOR HARVESTING ENERGY FROM LOW VOLTAGE SOURCES**

[54] **CONVERSION D'ELECTRICITE EFFICACE POUR COLLECTER D'ENERGIE EN PROVENANCE DE SOURCES BASSE TENSION**

[72] DING, HEPING, CA
[72] GRIFFIN, RYAN, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA

[85] 2021-03-12
[86] 2019-09-13 (PCT/CA2019/051298)
[87] (WO2020/051711)
[30] US (16/131,650) 2018-09-14

[21] **3,113,654**
[13] A1

[51] **Int.Cl. A61B 5/02 (2006.01) A61K 39/395 (2006.01) A61P 7/02 (2006.01) A61P 7/04 (2006.01) C07K 16/44 (2006.01)**

[25] EN

[54] **METHODS OF REVERSING TICAGRELOR ACTIVITY**

[54] **PROCEDES DE REVERSION D'ACTIVITE DE TICAGRELOR**

[72] LEE, JOHN, US
[72] BALLANCE, DAVID JAMES, US
[71] PHASEBIO PHARMACEUTICALS, INC., US

[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052173)
[87] (WO2020/061465)
[30] US (62/733,892) 2018-09-20
[30] US (62/806,225) 2019-02-15
[30] US (62/836,373) 2019-04-19

PCT Applications Entering the National Phase

[21] **3,113,655**
[13] A1

[51] **Int.Cl. A61L 2/00 (2006.01) A61K 35/16 (2015.01) A61M 1/02 (2006.01) C07D 219/10 (2006.01)**

[25] EN

[54] **METHODS AND KITS FOR PREPARING PATHOGEN-INACTIVATED WHOLE BLOOD**

[54] **PROCEDES ET TROUSSES POUR LA PREPARATION DE SANG TOTAL INACTIVE PAR DES AGENTS PATHOGENES**

[72] CAHYADI, HARRY, US
[72] NORTH, ANNE, US
[72] VON GOETZ, MELISSA, US
[72] ERICKSON, ANNA, US
[71] CERUS CORPORATION, US
[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052286)
[87] (WO2020/061537)
[30] US (62/734,117) 2018-09-20

[21] **3,113,657**
[13] A1

[51] **Int.Cl. G01N 1/40 (2006.01) C12N 5/078 (2010.01) C12Q 1/00 (2006.01) G01N 33/48 (2006.01) C12N 5/09 (2010.01) C12N 11/14 (2006.01)**

[25] EN

[54] **METHODS TO CAPTURE CELLS BASED ON PREFERENTIAL ADHERENCE**

[54] **PROCEDES DE CAPTURE DE CELLULES SUR LA BASE D'UNE ADHERENCE PREFERENTIELLE**

[72] LOEIAN, SEYED MASOUD, US
[72] PANCHAPAKESAN, BALAJI, US
[71] WORCESTER POLYTECHNIC INSTITUTE, US
[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052200)
[87] (WO2020/061479)
[30] US (62/733,849) 2018-09-20
[30] US (62/827,577) 2019-04-01

[21] **3,113,658**
[13] A1

[51] **Int.Cl. A61B 3/10 (2006.01) A61B 3/06 (2006.01) A61B 3/09 (2006.01)**

[25] EN

[54] **METHODS, APPARATUS, AND SYSTEMS FOR OPHTHALMIC TESTING AND MEASUREMENT**

[54] **PROCEDES, APPAREIL ET SYSTEMES DE TEST OPHTALMIQUE ET DE MESURE**

[72] JACKSON, GREGORY R., US
[72] BEECHER, DAVID E., US
[72] ORR, DAVID E., US
[72] JONES, FRANK, CA
[72] SMITH, NATHAN, US
[71] MACULOGIX, INC., US
[85] 2021-03-19
[86] 2019-09-21 (PCT/US2019/052303)
[87] (WO2020/061546)
[30] US (62/734,280) 2018-09-21
[30] US (62/734,274) 2018-09-21
[30] US (62/853,713) 2019-05-28

[21] **3,113,659**
[13] A1

[51] **Int.Cl. A61B 90/00 (2016.01) A61B 17/00 (2006.01)**

[25] EN

[54] **TISSUE REMOVAL CONTAINMENT SYSTEMS**

[54] **SYSTEME DE CONFINEMENT DE RETRAIT TISSULAIRE**

[72] PESCADOR, CESAR, US
[72] VELASCO, JOEL, US
[72] GARCIA, MEGAN, US
[72] PEREZ, DERYK, US
[71] APPLIED MEDICAL RESOURCES CORPORATION, US
[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052221)
[87] (WO2020/061495)
[30] US (62/734,093) 2018-09-20

[21] **3,113,660**
[13] A1

[51] **Int.Cl. A61G 3/08 (2006.01) A61G 1/02 (2006.01) A61G 1/044 (2006.01) A61G 1/056 (2006.01)**

[25] EN

[54] **GURNEY RESTRAINT SYSTEM**

[54] **SYSTEME DE RETENUE DE CHARIOT-BRANCARD**

[72] GIRARDIN, PATRICK, US
[72] SLEVINSKY, PAUL, CA
[72] EASTON, MARK, GB
[72] HOLLOWAY, GARETH, GB
[72] CUMMING, ROBERT, GB
[71] VALEDA COMPANY (D/B/A "Q'STRAIN"), US
[85] 2021-03-19
[86] 2019-09-23 (PCT/US2019/052328)
[87] (WO2020/068602)
[30] US (16/140,004) 2018-09-24

[21] **3,113,661**
[13] A1

[51] **Int.Cl. C07H 21/00 (2006.01) C12N 1/14 (2006.01) C12N 1/15 (2006.01) C12N 3/00 (2006.01) C12N 9/00 (2006.01) C12N 9/88 (2006.01) C12N 15/09 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PRODUCING HOMOKARYOTIC FILAMENTOUS FUNGAL CELLS**

[54] **PROCEDES ET COMPOSITIONS DE PRODUCTION DE CELLULES FONGIQUES FILAMENTEUSES HOMOCARYOTIQUES**

[72] GEISTLINGER, TIMOTHY, US
[72] DARST, BRIAN, US
[72] SCHUERG, TIMO, US
[72] RAMESH, BALAKRISHNAN, US
[72] YODER, WENDY, US
[71] PERFECT DAY, INC., US
[85] 2021-03-19
[86] 2019-09-20 (PCT/US2019/052238)
[87] (WO2020/061503)
[30] US (62/734,245) 2018-09-20

Demandes PCT entrant en phase nationale

[21] **3,113,662**
[13] A1

[51] **Int.Cl. A46B 11/00 (2006.01) A45D 19/00 (2006.01) A45D 20/00 (2006.01) A45D 24/00 (2006.01) A45D 24/22 (2006.01)**

[25] EN

[54] **ENHANCED HAIR PRODUCT APPLICATION WITH CONCURRENT STYLING**

[54] **APPLICATION DE PRODUIT CAPILLAIRE AMELIOREE AVEC COIFFAGE SIMULTANE**

[72] MYERS, DAWN N., US

[71] MYERS, DAWN N., US

[85] 2021-03-19

[86] 2019-09-21 (PCT/US2019/052309)

[87] (WO2020/061549)

[30] US (62/734,530) 2018-09-21

[30] US (16/278,091) 2019-02-16

[30] US (16/358,816) 2019-03-20

[21] **3,113,663**
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61B 17/00 (2006.01) A61B 5/02 (2006.01) A61M 5/142 (2006.01) A61M 25/10 (2013.01)**

[25] EN

[54] **APPARATUS FOR ASSESSMENT OF MICROVASCULAR DYSFUNCTION**

[54] **APPAREIL D'EVALUATION DE DYSFONCTIONNEMENT MICROVASCULAIRE**

[72] SCHWARTZ, ROBERT S., US

[72] HOEM, JON HELGE, CH

[72] ROTHMAN, MARTIN T., US

[71] CORFLOW THERAPEUTICS AG, CH

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052245)

[87] (WO2020/061507)

[30] US (62/734,364) 2018-09-21

[21] **3,113,664**
[13] A1

[51] **Int.Cl. A01D 34/74 (2006.01) A01D 34/64 (2006.01) A01D 34/78 (2006.01) A01D 34/82 (2006.01)**

[25] EN

[54] **DECK HEIGHT CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE DE HAUTEUR DE PLATEAU**

[72] CONRAD, JOSEPH, US

[72] CONRAD, MATTHEW, US

[71] GENERAC POWER SYSTEMS, INC., US

[85] 2021-03-19

[86] 2019-10-17 (PCT/US2019/056780)

[87] (WO2020/081844)

[30] US (62/746,658) 2018-10-17

[21] **3,113,665**
[13] A1

[51] **Int.Cl. G01N 33/24 (2006.01)**

[25] EN

[54] **EXTENSIBLE, MULTIMODAL SENSOR FUSION PLATFORM FOR REMOTE, PROXIMAL TERRAIN SENSING**

[54] **PLATE-FORME DE FUSION DE CAPTEURS MULTIMODE EXTENSIBLE POUR DETECTION DE TERRAIN PROXIMALE A DISTANCE**

[72] MANSERGH, RYAN, US

[72] RIDDER, STEVEN, US

[72] HIGHFILL, ELLIOTT, US

[71] TERALYTIC INC., US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052247)

[87] (WO2020/061509)

[30] US (62/734,639) 2018-09-21

[21] **3,113,666**
[13] A1

[51] **Int.Cl. C08J 11/24 (2006.01) C08L 67/02 (2006.01)**

[25] EN

[54] **PROCESS AND SYSTEM FOR DEPOLYMERIZING PLASTIC**

[54] **PROCEDE ET SYSTEME POUR LA DEPOLYMERISATION DE PLASTIQUE**

[72] PARROTT, MATTHEW CRAIG, US

[72] LUFT, JAMES CHRISTOPHER, US

[72] MATTIACE, MICHAEL DEAN, US

[72] SHUPING, DONALD B., US

[71] PREMIRR PLASTICS INC., US

[85] 2021-03-19

[86] 2019-09-20 (PCT/US2019/052263)

[87] (WO2020/061521)

[30] US (62/734,421) 2018-09-21

[30] US (62/831,787) 2019-04-10

[21] **3,113,667**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **2-AZABICYCLO HEXANE COMPOUND AS JAK INHIBITOR**

[54] **COMPOSE DE 2-AZABICYCLO HEXANE UTILISE EN TANT QU'INHIBITEUR DE JAK**

[72] FATHEREE, PAUL R., US

[72] JIANG, LAN, US

[71] THERAVANCE BIOPHARMA R&D IP, LLC, US

[85] 2021-03-19

[86] 2019-10-18 (PCT/US2019/056947)

[87] (WO2020/092019)

[30] US (62/751,967) 2018-10-29

PCT Applications Entering the National Phase

[21] **3,113,668**
[13] A1

[51] **Int.Cl. H05K 7/20 (2006.01) G06F 1/20 (2006.01)**
[25] EN
[54] **LIQUID IMMERSION COOLING PLATFORM**
[54] **PLATE-FORME DE REFROIDISSEMENT PAR IMMERSION DANS UN LIQUIDE**
[72] ENRIGHT, JOHN DAVID, US
[72] MERTEL, JACOB, US
[71] TMGCORE, LLC, US
[86] (3113668)
[87] (3113668)
[22] 2019-11-11
[30] US (62/768,633) 2018-11-16
[30] US (16/283,181) 2019-02-22
[30] US (62/815,682) 2019-03-08
[30] US (62/875,222) 2019-07-17
[30] US (62/897,457) 2019-09-09
[30] US (16/576,363) 2019-09-19
[30] US (16/576,285) 2019-09-19
[30] US (16/576,405) 2019-09-19
[30] US (16/576,191) 2019-09-19
[30] US (PCT/US2019/051924) 2019-09-19
[30] US (16/576,309) 2019-09-19
[30] US (16/576,239) 2019-09-19

[21] **3,113,669**
[13] A1

[51] **Int.Cl. B25J 9/16 (2006.01)**
[25] EN
[54] **DYNAMIC PROBABILISTIC MOTION PLANNING**
[54] **PLANIFICATION DE MOUVEMENT PROBABILISTE DYNAMIQUE**
[72] DUPUIS, JEAN-FRANCOIS, US
[72] GO, KEEGAN, US
[72] HEMMER, MICHAEL, US
[71] X DEVELOPMENT LLC, US
[85] 2021-03-19
[86] 2019-12-20 (PCT/US2019/067728)
[87] (WO2020/132386)
[30] US (16/229,484) 2018-12-21

[21] **3,113,670**
[13] A1

[51] **Int.Cl. G06Q 20/34 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G06Q 20/40 (2012.01)**
[25] EN
[54] **TAP TO AUTOFILL CARD DATA**
[54] **ROBINET POUR REMPLISSAGE AUTOMATIQUE DE DONNEES DE CARTE**
[72] RULE, JEFFREY, US
[72] LUTZ, WAYNE, US
[72] MORETON, PAUL, US
[71] CAPITAL ONE SERVICES, LLC, US
[85] 2021-03-19
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[87] (WO2020/154600)
[30] US (16/256,983) 2019-01-24

[21] **3,113,671**
[13] A1

[51] **Int.Cl. C12N 5/00 (2006.01) C12Q 1/00 (2006.01) G01N 33/50 (2006.01)**
[25] EN
[54] **ASSAYS FOR CELL-BASED THERAPIES OR TREATMENTS**
[54] **ESSAIS POUR THERAPIES OU TRAITEMENTS A BASE DE CELLULES**
[72] YANG, JING, US
[72] HSIANG, CHINHUI GINA, US
[72] KLASSEN, HENRY, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2021-03-19
[86] 2019-09-27 (PCT/US2019/053511)
[87] (WO2020/069352)
[30] US (62/737,359) 2018-09-27

[21] **3,113,673**
[13] A1

[51] **Int.Cl. G06F 9/48 (2006.01) G06F 9/54 (2006.01) H04L 29/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONSISTENT ENFORCEMENT POLICY ACROSS DIFFERENT SAAS APPLICATIONS VIA EMBEDDED BROWSER**
[54] **SYSTEMES ET PROCEDES POUR UNE POLITIQUE D'APPLICATION COHERENTE ENTRE DIFFERENTES APPLICATIONS SAAS PAR L'INTERMEDIAIRE D'UN NAVIGATEUR INTEGRE**
[72] FLECK, CHRISTOPHER, US
[72] VAN ROTTERDAM, JEROEN MATTIJS, US
[71] CITRIX SYSTEMS, INC., US
[85] 2021-03-19
[86] 2019-09-23 (PCT/US2019/052346)
[87] (WO2020/068613)
[30] US (16/139,800) 2018-09-24

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[13] A1

[51] **Int.Cl. H05B 47/11 (2020.01) H05B 47/155 (2020.01) H05B 47/17 (2020.01)**
[25] EN
[54] **SYSTEM AND METHOD TO GROUP LIGHT SENSORS FOR CONTROLLING ILLUMINATION UNIFORMLY BASED ON AMBIENT LIGHT**
[54] **SYSTEME ET PROCEDE DESTINES A GROUPE DES CAPTEURS DE LUMIERE POUR COMMANDER L'ECLAIRAGE DE MANIERE UNIFORME SUR LA BASE DE LA LUMIERE AMBIANTE**
[72] SENESCU, REID, US
[72] MOHAN, TANUJ, US
[72] FARQUHAR, NORMAN, US
[72] KURASHIGE, JASON, US
[72] KAMISHETTI, SREEDHAR, US
[71] ENLIGHTED, INC., US
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[30] US (16/137,777) 2018-09-21

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[13] A1

[51] **Int.Cl. A61K 35/30 (2015.01) C12N 5/073 (2010.01) A61P 27/02 (2006.01)**

[25] EN

[54] **METHODS OF HUMAN RETINAL PROGENITOR CELL ISOLATION AND CULTURE**

[54] **PROCEDES D'ISOLEMENT ET DE CULTURE DE CELLULES PROGENITRICES RETINIENNES HUMAINES**

[72] YANG, JING, US

[72] KLASSEN, HENRY, US

[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US

[85] 2021-03-19

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[87] (WO2020/069360)

[30] US (62/737,622) 2018-09-27

[21] **3,113,676**
[13] A1

[51] **Int.Cl. C12Q 1/68 (2018.01) A61K 48/00 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING DIABETES, AND METHODS FOR ENRICHING MRNA CODING FOR SECRETED PROTEINS**

[54] **METHODES ET COMPOSITIONS POUR LE TRAITEMENT DU DIABETE, ET METHODES POUR L'ENRICHISSEMENT EN UN ARNM CODANT POUR DES PROTEINES SECRETEES**

[72] RIVERA-FELICIANO, JOSE, US

[72] ROSADO-OLIVIERI, EDWIN ANTONIO, US

[72] MELTON, DOUGLAS A., US

[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US

[85] 2021-03-19

[86] 2019-09-23 (PCT/US2019/052517)

[87] (WO2020/061591)

[30] US (62/734,981) 2018-09-21

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[13] A1

[51] **Int.Cl. E03C 1/05 (2006.01) H03K 17/96 (2006.01)**

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[54] **CAPACITIVE SENSING FAUCET**

[54] **ROBINET DE DETECTION CAPACITIF**

[72] VEROS, MICHAEL J., US

[72] THOMAS, KURT JUDSON, US

[72] SCHNEIDER II, RANDY L., US

[71] DELTA FAUCET COMPANY, US

[85] 2021-02-26

[86] 2019-09-16 (PCT/US2019/051324)

[87] (WO2020/056420)

[30] US (62/731,743) 2018-09-14

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[13] A1

[51] **Int.Cl. H02G 3/06 (2006.01)**

[25] EN

[54] **SPLICE PLATE FOR CONNECTING CABLE BUS ENCLOSURES**

[54] **PLAQUE D'EPISSURE DE RACCORDEMENT D'ENVELOPPES POUR CABLES DE LIAISON**

[72] LUKOVIC, ANDRE, US

[71] ADVANCED CABLE BUS, INC., US

[85] 2021-03-19

[86] 2019-09-24 (PCT/US2019/052568)

[87] (WO2020/072229)

[30] US (16/148,689) 2018-10-01

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[13] A1

[51] **Int.Cl. C23C 18/00 (2006.01)**

[25] EN

[54] **ALUMINAS AND METHODS FOR PRODUCING SAME**

[54] **ALUMINES ET LEURS PROCEDES DE PRODUCTION**

[72] PEOPLES, BRIAN, US

[72] HANN, ALLISON, US

[71] SASOL (USA) CORPORATION, US

[85] 2021-03-19

[86] 2019-10-02 (PCT/US2019/054244)

[87] (WO2020/072607)

[30] US (62/740,493) 2018-10-03

[21] **3,113,682**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01) C12Q 1/686 (2018.01) G01N 25/04 (2006.01)**

[25] EN

[54] **METHODS OF PREPARING AND ANALYZING NUCLEIC ACID LIBRARIES**

[54] **PROCEDES DE PREPARATION ET D'ANALYSE DE BANQUES D'ACIDE NUCLEIQUE**

[72] KAMBEROV, EMMANUEL, US

[72] KIMURA, YOSHITAKA, US

[72] LALIBERTE, JULIE CATHERINE, US

[72] MARTIN, PATRICK KEVIN, US

[72] MEYERS, JACOB, US

[71] TAKARA BIO USA, INC., US

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[86] 2020-02-14 (PCT/US2020/018360)

[87] (WO2020/168239)

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[21] **3,113,683**
[13] A1

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[54] **BIHAPTENIZED AUTOLOGOUS VACCINES AND USES THEREOF**

[54] **VACCINS AUTOLOGUES BIHAPTENISES ET LEURS UTILISATIONS**

[72] BERD, DAVID, US

[71] BIOVAXYS LLC, US

[85] 2021-03-19

[86] 2019-09-24 (PCT/US2019/052644)

[87] (WO2020/068786)

[30] US (62/735,381) 2018-09-24

[30] US (62/746,066) 2018-10-16

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[51] **Int.Cl. A61K 35/66 (2015.01) A61K 35/742 (2015.01) A61K 35/745 (2015.01) A61K 35/74 (2015.01) A61P 3/10 (2006.01)**

[25] EN

[54] **MICROBIAL COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS MICROBIENNES ET METHODES D'UTILISATION**

[72] EID, JOHN S., US

[72] CUTCLIFFE, COLLEEN, US

[72] KOLTERMAN, ORVILLE, US

[72] PERRAUDEAU, FANNY, US

[72] BULLARD, JAMES, US

[72] MCMURDIE, PAUL, US

[72] CHENG, ANDREW, US

[72] SCHICKLBERGER, MARCUS, US

[72] JUSTICE, NICHOLAS, US

[71] PENDULUM THERAPEUTICS, INC., US

[85] 2021-03-19

[86] 2019-09-24 (PCT/US2019/052694)

[87] (WO2020/068827)

[30] US (62/735,747) 2018-09-24

[30] US (62/801,983) 2019-02-06

[21] **3,113,685**
[13] A1

[51] **Int.Cl. F16K 17/10 (2006.01) F16K 31/122 (2006.01) G05D 16/16 (2006.01)**

[25] EN

[54] **PILOT-OPERATED RELIEF VALVE ASSEMBLY**

[54] **ENSEMBLE SOUPAPE DE DETENTE ACTIONNEE PAR PILOTE**

[72] KALYANASUNDARAM, VISHWA, US

[72] MCNEELY, MICHAEL, US

[72] ALMAZAN, RAUL, US

[72] BOCKELOH, WILLIAM, US

[71] EMERSON AUTOMATION SOLUTIONS FINAL CONTROL US LP, US

[85] 2021-03-20

[86] 2019-09-30 (PCT/US2019/053865)

[87] (WO2020/069519)

[30] US (62/738,064) 2018-09-28

[21] **3,113,687**
[13] A1

[51] **Int.Cl. B65D 19/44 (2006.01) B65D 25/04 (2006.01) B65D 25/10 (2006.01) B65D 19/18 (2006.01)**

[25] EN

[54] **TRANSPORT CONTAINER FOR FAN COMPONENTS AND TRANSPORTABLE FAN COMPONENT SYSTEM**

[54] **CONTENANT DE TRANSPORT DESTINE A DES ELEMENTS DE VENTILATEUR ET SYSTEME D'ELEMENTS DE VENTILATEUR TRANSPORTABLE**

[72] MARTIN, INDIAN, US

[72] MARTIN, CHAD, US

[72] KEUGLER, RON, US

[72] JARVIS, SCOTT, US

[71] E&C FINFAN, INC., US

[85] 2021-03-19

[86] 2019-10-03 (PCT/US2019/054494)

[87] (WO2020/072771)

[30] US (62/740,923) 2018-10-03

[21] **3,113,688**
[13] A1

[51] **Int.Cl. A61B 18/14 (2006.01) A61B 90/00 (2016.01) A61B 17/28 (2006.01) A61B 18/00 (2006.01) A61B 18/12 (2006.01)**

[25] EN

[54] **SCISSOR STYLE VESSEL SEALER**

[54] **DISPOSITIF DE SCHELLEMENT DE VAISSEAU DE TYPE CISEAUX**

[72] EILERS, DEREK, US

[71] CONMED CORPORATION, US

[85] 2021-03-19

[86] 2019-10-21 (PCT/US2019/057212)

[87] (WO2020/082067)

[30] US (62/747,725) 2018-10-19

[21] **3,113,690**
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/12 (2006.01)**

[25] EN

[54] **THREE-DIMENSIONAL BIOREACTORS**

[54] **BIOREACTEURS TRIDIMENSIONNELS**

[72] LING, JIAN, US

[72] WELLINGHOFF, STEPHEN T., US

[72] RUBAL, MICHAEL J., US

[71] SOUTHWEST RESEARCH INSTITUTE, US

[85] 2021-03-19

[86] 2019-09-24 (PCT/US2019/052713)

[87] (WO2020/068840)

[30] US (62/735,531) 2018-09-24

[21] **3,113,692**
[13] A1

[51] **Int.Cl. B01J 47/12 (2017.01) C08J 5/22 (2006.01) C25B 13/08 (2006.01)**

[25] EN

[54] **MONOVALENT SELECTIVE CATION EXCHANGE MEMBRANE**

[54] **MEMBRANE ECHANGEUSE DE CATIONS SELECTIVE MONOVALENTE**

[72] GU, GEORGE, US

[72] HADJIKYRIACOU, SAVVAS, US

[72] DUKES, SIMON P., US

[72] SHAW, MICHAEL J., US

[71] EVOQUA WATER TECHNOLOGIES LLC, US

[85] 2021-03-19

[86] 2019-09-25 (PCT/US2019/052889)

[87] (WO2020/068932)

[30] US (62/736,176) 2018-09-25

[30] US (62/737,373) 2018-09-27

[30] US (62/861,608) 2019-06-14

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[13] A1

[51] **Int.Cl. A43B 5/12 (2006.01) A43B 7/14 (2006.01) A43B 13/14 (2006.01) A43B 13/41 (2006.01) A43B 23/22 (2006.01)**

[25] EN

[54] **BALLET POINTE SHOE**

[54] **CHAUSSON DE POINTE DE BALLET**

[72] RANSAN, LISIAS, US

[71] RANSAN, LISIAS, US

[85] 2021-03-19

[86] 2019-10-25 (PCT/US2019/058206)

[87] (WO2020/087034)

[30] US (62/751,243) 2018-10-26

[30] US (62/754,105) 2018-11-01

[30] US (62/794,589) 2019-01-19

[30] US (62/925,729) 2019-10-24

[21] **3,113,694**
[13] A1

[51] **Int.Cl. A01K 5/01 (2006.01) A47G 19/22 (2006.01) A47J 41/00 (2006.01) A47J 41/02 (2006.01) B65D 81/38 (2006.01)**

[25] EN

[54] **BOWL AND METHOD OF FORMING A BOWL**

[54] **CUVETTE ET PROCEDE DE FORMATION ASSOCIE**

[72] ELLISON, KYLE, US

[72] BULLOCK, DUSTIN, US

[72] DARLING, COLIN, US

[71] YETI COOLERS, LLC, US

[85] 2021-03-19

[86] 2019-09-26 (PCT/US2019/053252)

[87] (WO2020/069189)

[30] US (16/146,692) 2018-09-28

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[13] A1

[51] **Int.Cl. A47C 17/52 (2006.01) A47C 17/84 (2006.01) A47C 17/86 (2006.01) A47C 19/22 (2006.01) A47C 21/00 (2006.01)**

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[54] **SYSTEMS AND METHODS FOR IMPROVED OPERATION OF MOVEABLE ROBOTIC ELEMENTS**

[54] **SYSTEMES ET PROCEDES POUR AMELIORER LE FONCTIONNEMENT D'ELEMENTS ROBOTIQUES MOBILES**

[72] RUBIO, CARLOS, US

[72] BEAN, CHAD, US

[72] CASADEVANTE, IVAN FERNANDEZ DE, US

[72] LARREA-TAMAYO, HASIER, US

[72] HSIUNG, ROBERT T., US

[72] RITTS, DANIEL, US

[71] ORI INC., US

[85] 2021-03-19

[86] 2019-11-08 (PCT/US2019/060553)

[87] (WO2020/097517)

[30] US (62/757,964) 2018-11-09

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[13] A1

[51] **Int.Cl. A61F 2/95 (2013.01)**

[25] EN

[54] **CONSTRAINING MECHANISMS AND ASSOCIATED METHODS**

[54] **MECANISMES DE CONTRAINTE ET PROCEDES ASSOCIES**

[72] STASTKA, JERRY J., US

[71] W. L. GORE & ASSOCIATES, INC., US

[85] 2021-03-19

[86] 2019-10-04 (PCT/US2019/054630)

[87] (WO2020/072861)

[30] US (62/741,944) 2018-10-05

[21] **3,113,698**
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/30 (2018.01) H04W 4/029 (2018.01) G06N 20/00 (2019.01) A61B 5/024 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD TO IMPROVE INTERACTION BETWEEN USERS THROUGH MONITORING OF EMOTIONAL STATE OF THE USERS AND REINFORCEMENT OF GOAL STATES**

[54] **SYSTEME ET PROCEDE POUR AMELIORER L'INTERACTION ENTRE UTILISATEURS PAR LA SURVEILLANCE DE L'ETAT EMOTIONNEL DES UTILISATEURS ET LE RENFORCEMENT D'ETATS D'OBJECTIFS**

[72] CURTIS, STEVE, CA

[71] CURTIS, STEVE, CA

[85] 2021-03-22

[86] 2019-09-20 (PCT/CA2019/051340)

[87] (WO2020/056519)

[30] US (62/734,490) 2018-09-21

[30] US (62/734,522) 2018-09-21

[30] US (62/734,553) 2018-09-21

[30] US (62/734,608) 2018-09-21

[21] **3,113,699**
[13] A1

[51] **Int.Cl. A61F 2/24 (2006.01) A61F 2/95 (2013.01)**

[25] EN

[54] **CONSTRAINING MECHANISMS FOR SELECTIVE DEPLOYMENT AND ASSOCIATED METHODS**

[54] **MECANISMES DE CONTRAINTE POUR LE DEPLOIEMENT SELECTIF ET PROCEDES ASSOCIES**

[72] STASTKA, JERRY J., US

[71] W. L. GORE & ASSOCIATES, INC., US

[85] 2021-03-19

[86] 2019-10-04 (PCT/US2019/054652)

[87] (WO2020/072876)

[30] US (62/741,948) 2018-10-05

[30] US (62/746,270) 2018-10-16

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[13] A1

[51] **Int.Cl. C04B 12/04 (2006.01)**
[25] EN
[54] **SINTERED GEOPOLYMER COMPOSITIONS AND ARTICLES**
[54] **COMPOSITIONS ET ARTICLES GEOPOLYMERES FRITES**
[72] GRAYTEE, AHMED REDHA SALEEM, AU
[71] GRAYTEE, AHMED REDHA SALEEM, AU
[85] 2021-03-21
[86] 2019-09-23 (PCT/AU2019/051021)
[87] (WO2020/056470)
[30] AU (2018903545) 2018-09-21

[21] **3,113,713**
[13] A1

[51] **Int.Cl. F16L 27/08 (2006.01)**
[25] EN
[54] **SWIVEL BEARING ASSEMBLY**
[54] **ENSEMBLE PALIER A PIVOT**
[72] HAVILAND, SEAN, AU
[71] HAVILAND HOLDINGS PTY LTD, AU
[85] 2021-03-22
[86] 2019-09-16 (PCT/AU2019/000109)
[87] (WO2020/061608)
[30] AU (2018903653) 2018-09-27

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[13] A1

[51] **Int.Cl. A47G 9/10 (2006.01) A47C 20/02 (2006.01)**
[25] EN
[54] **CAVITY CONTOUR PILLOW**
[54] **OREILLER DE CONTOUR DE CAVITE**
[72] DENNEWALD, ADRIAN, AU
[71] DENNEROLL HOLDINGS PTY LTD, AU
[85] 2021-03-22
[86] 2019-10-09 (PCT/AU2019/051087)
[87] (WO2020/061652)
[30] US (16/581,726) 2019-09-24

[21] **3,113,721**
[13] A1

[51] **Int.Cl. C02F 1/46 (2006.01) C02F 1/463 (2006.01) C02F 1/52 (2006.01) C02F 1/66 (2006.01)**
[25] EN
[54] **CURRENT BASED WATER TREATMENT PROCESS AND SYSTEM**
[54] **PROCEDE ET SYSTEME TRAITEMENT DE L'EAU BASE SUR LE COURANT**
[72] STEPHENSON, ROBERT JOHN, CA
[72] REID, TRAVIS DAVID WAYNE, CA
[72] GARDNER, MICHAEL STEPHEN, CA
[71] MUDDY RIVER TECHNOLOGIES INC., CA
[85] 2021-03-22
[86] 2019-09-23 (PCT/CA2019/051355)
[87] (WO2020/061686)
[30] CA (3018901) 2018-09-27
[30] US (62/737,283) 2018-09-27

[21] **3,113,724**
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 31/05 (2006.01) A61K 36/185 (2006.01) A61P 1/00 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)**
[25] EN
[54] **PHARMACEUTICALLY ACTIVE CANNABIS-BASED COMPOSITIONS AND METHODS OF USE FOR TREATING GASTROINTESTINAL CONDITIONS**
[54] **COMPOSITIONS PHARMACEUTIQUES ACTIVES A BASE DE CANNABIS ET PROCEDES D'UTILISATION POUR TRAITER DES AFFECTIONS GASTRO-INTESTINALES**
[72] KOWALCZEWSKI, JAN, CA
[72] ANDREWS, CHRISTOPHER, CA
[71] VISCERAL THERAPEUTICS INC., CA
[85] 2021-03-22
[86] 2019-09-23 (PCT/CA2019/051357)
[87] (WO2020/061687)
[30] US (62/738,091) 2018-09-28

[21] **3,113,727**
[13] A1

[51] **Int.Cl. C07D 487/14 (2006.01) C07D 487/16 (2006.01) C12N 1/12 (2006.01) C12P 17/18 (2006.01)**
[25] EN
[54] **A SEMISYNTHETIC METHOD OF PREPARING NEOSAXITOXIN**
[54] **PROCEDE SEMI-SYNTHETIQUE DE PREPARATION DE NEOSAXITOXINE**
[72] SELWOOD, ANDREW IAN, NZ
[72] VAN GINKEL, ROELOF, NZ
[72] WAUGH, CRAIG ALAN, NZ
[71] THE CAWTHRON INSTITUTE TRUST BOARD, NZ
[85] 2021-03-17
[86] 2018-09-21 (PCT/IB2018/057274)
[87] (WO2020/058750)

[21] **3,113,732**
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/506 (2006.01) A61P 17/14 (2006.01) A61P 35/00 (2006.01) C07D 403/04 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **AROMATIC HETEROCYCLIC COMPOUND WITH KINASE INHIBITORY ACTIVITY**
[54] **COMPOSE HETEROCYCLIQUE AROMATIQUE AYANT UNE ACTIVITE INHIBITRICE DE KINASE**
[72] JIANG, LEI, CN
[72] DENG, JIANWEN, CN
[72] FENG, ZHIYONG, CN
[72] LIU, SHENGYANG, CN
[72] MAO, XUDONG, CN
[72] SHANG, KE, CN
[72] SHOU, JIANYONG, CN
[72] WU, DANYI, CN
[72] XIE, XIAOPING, CN
[72] XU, YUAN, CN
[72] ZHAO, HAIXIA, CN
[72] ZHANG, JIANHUA, CN
[72] ZHENG, MINGWEI, CN
[71] SHANGHAI ENNOVABIO PHARMACEUTICALS CO., LTD., CN
[85] 2021-03-22
[86] 2019-09-23 (PCT/CN2019/107381)
[87] (WO2020/057669)
[30] CN (201811110497.7) 2018-09-21
[30] CN (201811109355.9) 2018-09-21

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[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 38/26 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C12P 21/02 (2006.01)**

[25] EN

[54] **GLP1-FC FUSION PROTEIN AND CONJUGATE THEREOF**

[54] **PROTEINE DE FUSION GLP1-FC ET CONJUGUE ASSOCIE**

[72] WANG, YALI, CN
[72] CHEN, XIAN, CN
[72] ZHU, LUYAN, CN
[72] LIU, BIN, CN
[72] WANG, XIAOSHAN, CN
[72] REN, ZIJIA, CN
[72] ZHOU, TINGTING, CN
[72] YAN, HAIXIA, CN
[72] XU, YINGYING, CN
[72] GAO, HUIHUI, CN
[72] WANG, JIN, CN
[72] XU, YANG, CN
[72] LIU, YAHUI, CN
[72] MO, WEICHUAN, CN
[72] CHEN, XIN, CN
[72] GAO, JIE, CN
[72] SU, HONGSHENG, CN
[71] JIANGSU GENSCIENCES INC., CN
[85] 2021-03-22
[86] 2019-09-25 (PCT/CN2019/107709)
[87] (WO2020/063628)
[30] CN (201811125762.9) 2018-09-26

[21] **3,113,740**
[13] A1

[51] **Int.Cl. H04N 19/593 (2014.01)**

[25] EN

[54] **IMAGE COMPONENT PREDICTION METHOD, ENCODER, DECODER, AND STORAGE MEDIUM**

[54] **PROCEDE DE PREDICTION DE COMPOSANTE D'IMAGE, ENCODEUR, DECODEUR ET SUPPORT D'INFORMATIONS**

[72] HUO, JUNYAN, CN
[72] MA, YANZHUO, CN
[72] ZHANG, WEI, CN
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[85] 2021-03-22
[86] 2020-05-15 (PCT/CN2020/090688)
[87] (WO2021/004155)
[30] US (62/872,488) 2019-07-10
[30] US (62/872,830) 2019-07-11
[30] US (62/873,170) 2019-07-11

[21] **3,113,742**
[13] A1

[51] **Int.Cl. H04W 24/02 (2009.01)**

[25] EN

[54] **METHOD EXECUTED BY USER DEVICE AND USER DEVICE**

[54] **PROCEDE EXECUTE PAR UN DISPOSITIF UTILISATEUR, ET DISPOSITIF UTILISATEUR**

[72] LUO, CHAO, CN
[72] LIU, RENMAO, CN
[71] SHARP KABUSHIKI KAISHA, JP
[85] 2021-03-22
[86] 2019-09-24 (PCT/CN2019/107524)
[87] (WO2020/063587)
[30] CN (201811118443.5) 2018-09-25

[21] **3,113,748**
[13] A1

[51] **Int.Cl. B22F 9/10 (2006.01)**

[25] EN

[54] **ROTARY DISC STRUCTURE SPECIAL FOR DROP-BY-DROP CENTRIFUGAL ATOMIZATION METHOD**

[54] **STRUCTURE DE DISQUE ROTATIF SPECIALEMENT CONCUE POUR UN PROCEDE D'ATOMISATION CENTRIFUGE PAR GOUTTE-A-GOUTTE**

[72] WANG, XIAOMING, CN
[72] ZHAO, YANG, CN
[72] REN, ZHIQIANG, CN
[72] WANG, WENYU, CN
[72] CHANG, QING, CN
[72] HAN, GUOFENG, CN
[72] ZHU, SHENG, CN
[72] SHI, JING, CN
[72] TENG, TAO, CN
[72] SUN, YU, CN
[72] QIN, ZHIYONG, CN
[72] DONG, WEI, CN
[72] MENG, YAO, CN
[72] XU, FUMIN, CN
[72] BAI, ZHAOFENG, CN
[72] WANG, YANYANG, CN
[72] HAN, YANG, CN
[72] LI, GUOBIN, CN
[71] DALIAN UNIVERSITY OF TECHNOLOGY, CN
[71] WANG, XIAOMING, CN
[71] ZHAO, YANG, CN
[71] REN, ZHIQIANG, CN
[71] WANG, WENYU, CN
[71] CHANG, QING, CN
[71] HAN, GUOFENG, CN
[71] ZHU, SHENG, CN
[71] SHI, JING, CN
[71] TENG, TAO, CN
[71] SUN, YU, CN
[71] QIN, ZHIYONG, CN
[85] 2021-03-22
[86] 2019-09-25 (PCT/CN2019/107705)
[87] (WO2020/063627)
[30] CN (201811116502.5) 2018-09-25

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[21] **3,113,749**
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/4439 (2006.01)**
[25] EN
[54] **MULTILAYER MEDIA BED FILTER COMPRISING GLASS BEAD MICROMEDIA**
[54] **FILTRE A LIT DE MILIEUX MULTICOUCHE COMPRENANT DES MICROSUPPORTS DE BILLES DE VERRE**
[72] SILVERWOOD, ALAIN, CA
[71] NEPTUNE-BENSON, LLC, US
[85] 2021-03-18
[86] 2019-10-24 (PCT/US2019/057748)
[87] (WO2020/086781)
[30] US (62/749,701) 2018-10-24

[21] **3,113,750**
[13] A1

[51] **Int.Cl. G06F 13/12 (2006.01)**
[25] EN
[54] **DATA PROCESSING APPARATUS HAVING MULTIPLE PROCESSORS AND MULTIPLE INTERFACES**
[54] **DISPOSITIF DE TRAITEMENT DE DONNEES COMPRENANT UNE PLURALITE DE PROCESSEURS ET UNE PLURALITE D'INTERFACES**
[72] REUBOLD, TIMO, DE
[71] ROCKWELL COLLINS DEUTSCHLAND GMBH, DE
[85] 2021-03-22
[86] 2019-07-18 (PCT/EP2019/069362)
[87] (WO2020/064168)
[30] DE (10 2018 124 106.2) 2018-09-28

[21] **3,113,752**
[13] A1

[51] **Int.Cl. E03F 7/06 (2006.01)**
[25] EN
[54] **RAT AND VERMIN BARRIER SUITABLE FOR INSTALLATION IN A SEWAGE PIPE**
[54] **BARRIERE CONTRE LES RATS ET LA VERMINE CONVENANT A UNE INSTALLATION DANS UN TUYAU D'EGOUT**
[72] LYKKE SORENSEN, MICHAEL, DK
[72] HASAGER, NIELS, DK
[71] SEWATECH APS, DK
[85] 2021-03-22
[86] 2018-10-02 (PCT/DK2018/050248)
[87] (WO2019/068301)
[30] DK (PA 2017 70752) 2017-10-03
[30] DK (PA 2018 70096) 2018-02-16

[21] **3,113,754**
[13] A1

[51] **Int.Cl. C01B 37/00 (2006.01) C01B 39/02 (2006.01)**
[25] EN
[54] **PROCESS FOR THE MANUFACTURE OF PULVERULENT, POROUS CRYSTALLINE METAL SILICATES EMPLOYING FLAME SPRAY PYROLYSIS**
[54] **PROCEDE DE FABRICATION DE SILICATES METALLIQUES CRISTALLINS POREUX ET PULVERULENTS UTILISANT UNE PYROLYSE AU PISTOLET A FLAMME**
[72] SCHMIDT, FRANZ, DE
[72] ANTON, JOHAN, DE
[72] PASCALY, MATTHIAS, DE
[72] HEINROTH, ANDREA, DE
[72] WIELAND, STEFAN, DE
[72] MORELL, HEIKO, DE
[72] KRESS, PETER, DE
[72] HAGEMANN, MICHAEL GERHARD, CN
[72] LI, ZHEN, DE
[72] HABERKORN, JULIAN DOMINIC, DE
[72] REINSDORF, ARNE, DE
[71] EVONIK OPERATIONS GMBH, DE
[85] 2021-03-22
[86] 2019-09-16 (PCT/EP2019/074707)
[87] (WO2020/064401)
[30] EP (18196479.2) 2018-09-25

[21] **3,113,755**
[13] A1

[51] **Int.Cl. H04N 19/00 (2014.01) H04N 19/463 (2014.01) H04N 19/597 (2014.01) H04N 19/70 (2014.01)**
[25] EN
[54] **MEDIA BISTREAM HAVING BACKWARDS COMPATIBILITY**
[54] **FLUX BINAIRE MULTIMEDIA AVEC RETROCOMPATIBILITE**
[72] PETERSSON, MARTIN, SE
[72] DAMGHANIAN, MITRA, SE
[72] SJOBERG, RICKARD, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2021-03-22
[86] 2019-09-24 (PCT/EP2019/075713)
[87] (WO2020/064733)
[30] US (62/736,002) 2018-09-25

[21] **3,113,756**
[13] A1

[51] **Int.Cl. G01N 33/483 (2006.01) C07K 1/22 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) G01N 1/28 (2006.01) G01N 1/34 (2006.01) G01N 27/00 (2006.01)**
[25] EN
[54] **ANTIBODY QUANTIFICATION IN BIOLOGICAL SAMPLES**
[54] **QUANTIFICATION D'ANTICORPS DANS DES ECHANTILLONS BIOLOGIQUES**
[72] GUDI, GIRISH, CH
[72] GN, SUNITHA, CH
[72] FLUHLER, ERIC, CH
[71] ICHNOS SCIENCES S.A., CH
[85] 2021-03-22
[86] 2019-09-25 (PCT/EP2019/075918)
[87] (WO2020/064865)
[30] EP (18196523.7) 2018-09-25
[30] EP (18196773.8) 2018-09-26

[21] **3,113,757**
[13] A1

[51] **Int.Cl. H04N 21/218 (2011.01) H04N 21/231 (2011.01) H04N 21/6587 (2011.01) H04N 21/81 (2011.01) H04N 13/117 (2018.01) G06T 15/20 (2011.01)**
[25] EN
[54] **IMAGE SYNTHESIS**
[54] **SYNTHESE D'IMAGE**
[72] VAREKAMP, CHRISTIAAN, NL
[71] KONINKLIJKE PHILIPS N.V., NL
[85] 2021-03-22
[86] 2019-09-16 (PCT/EP2019/074617)
[87] (WO2020/064381)
[30] EP (18196617.7) 2018-09-25

[21] **3,113,758**
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**
[25] EN
[54] **ADAPTIVE SERVICE UNIT OF A BEVERAGE MACHINE**
[54] **UNITE DE SERVICE ADAPTATIVE D'UNE MACHINE A BOISSON**
[72] ABDO, SAMER, CH
[72] FOURNIER, MICHAEL, CH
[72] GUYON, BERTRAND, FR
[72] MAGATTI, MARCO, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2021-03-22
[86] 2019-09-27 (PCT/EP2019/076137)
[87] (WO2020/064982)
[30] EP (18197094.8) 2018-09-27

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[21] **3,113,760**
[13] A1

[51] **Int.Cl. A01G 25/16 (2006.01) A01G 9/24 (2006.01) A01G 31/02 (2006.01)**

[25] EN

[54] **PLANT GROWTH CONTROL SYSTEM**

[54] **SYSTEME DE REGULATION DE LA CROISSANCE DE PLANTES**

[72] BOUWENS, PAUL J. L. H., DK

[72] LEE, ANDREW WREATHALL, DK

[72] SPOOR, PETER BENJAMIN, DK

[71] ROCKWOOL INTERNATIONAL A/S, DK

[85] 2021-03-18

[86] 2019-09-27 (PCT/EP2019/076280)

[87] (WO2020/065050)

[30] EP (18197457.7) 2018-09-28

[30] EP (18213149.0) 2018-12-17

[21] **3,113,761**
[13] A1

[51] **Int.Cl. A01N 43/80 (2006.01) C07D 261/04 (2006.01)**

[25] EN

[54] **INSECTICIDAL COMPOUNDS**

[54] **COMPOSES INSECTICIDES**

[72] BIGOT, AURELIEN, CH

[72] JEANGUENAT, ANDRE, CH

[72] EL QACEMI, MYRIEM, CH

[71] SYNGENTA CROP PROTECTION AG, CH

[85] 2021-03-22

[86] 2019-09-20 (PCT/EP2019/075394)

[87] (WO2020/064569)

[30] EP (18196932.0) 2018-09-26

[21] **3,113,762**
[13] A1

[51] **Int.Cl. A61B 18/18 (2006.01)**

[25] EN

[54] **ELECTROSURGICAL INSTRUMENT**

[54] **INSTRUMENT ELECTROCHIRURGICAL**

[72] HANCOCK, CHRISTOPHER PAUL, GB

[72] GEORGE, ULLRICH, GB

[72] MORRIS, STEVE, GB

[72] WEBB, DAVID, GB

[72] PRESTON, SHAUN, GB

[72] GEOGHEGAN, LEIF, GB

[72] CROCKER, DAN, GB

[72] SWAIN, SANDRA, GB

[71] CREO MEDICAL LIMITED, GB

[85] 2021-03-22

[86] 2019-10-01 (PCT/EP2019/076567)

[87] (WO2020/070113)

[30] GB (1816128.1) 2018-10-03

[21] **3,113,767**
[13] A1

[51] **Int.Cl. B01J 8/00 (2006.01) B01J 8/02 (2006.01)**

[25] EN

[54] **RADIAL OR AXIAL-RADIAL CHEMICAL REACTOR WITH A FINE CATALYST**

[54] **REACTEUR CHIMIQUE RADIAL OU AXIAL-RADIAL AVEC UN CATALYSEUR FIN**

[72] PANZA, SERGIO, IT

[72] BIASI, PIERDOMENICO, IT

[72] FILIPPI, ERMANNO, CH

[71] CASALE SA, CH

[85] 2021-03-22

[86] 2019-10-07 (PCT/EP2019/077019)

[87] (WO2020/088886)

[30] EP (18203181.5) 2018-10-29

[21] **3,113,770**
[13] A1

[51] **Int.Cl. C07C 229/08 (2006.01) A61K 31/198 (2006.01) A61K 47/12 (2006.01) A61P 5/14 (2006.01) C07C 55/07 (2006.01) C07C 59/08 (2006.01) C07C 59/255 (2006.01)**

[25] EN

[54] **CO-CRYSTALS COMPRISING LEVOTHYROXINE AND A DICARBOXYLIC ACID**

[54] **CO-CRISTAUX COMPRENANT DE LA LEVOTHYROXINE ET UN ACIDE DICARBOXYLIQUE**

[72] STEFINOVIC, MARIJAN, AT

[72] ENKELMANN, DENNIS DIMO, AT

[72] GRIESSER, ULRICH, AT

[72] GELBRICH, THOMAS, AT

[71] SANDOZ AG, CH

[85] 2021-03-22

[86] 2019-10-16 (PCT/EP2019/078084)

[87] (WO2020/079079)

[30] EP (18200869.8) 2018-10-17

[30] EP (19201020.5) 2019-10-02

[21] **3,113,771**
[13] A1

[51] **Int.Cl. G01N 31/22 (2006.01) G01N 21/64 (2006.01) G01N 21/77 (2006.01)**

[25] EN

[54] **METHOD FOR MEASURING CONCENTRATION OF POLYELECTROLYTE AND PHOSPHONATE BLENDS**

[54] **PROCEDE DE MESURE DE LA CONCENTRATION DE MELANGES DE POLYELECTROLYTES ET DE PHOSPHONATE**

[72] PUUPPONEN, SALLA, FI

[72] KRAPU, SARI, FI

[71] KEMIRA OYJ, FI

[85] 2021-03-22

[86] 2019-09-27 (PCT/FI2019/050694)

[87] (WO2020/070385)

[30] FI (20185816) 2018-10-01

[21] **3,113,772**
[13] A1

[51] **Int.Cl. A01J 5/007 (2006.01)**

[25] EN

[54] **METHOD FOR MILKING, MILKING SYSTEM THEREFOR AND MILKING STALL WITH SUCH A MILKING SYSTEM**

[54] **PROCEDE DE TRAITE, SYSTEME DE TRAITE ASSOCIE ET STALLE DE TRAITE COMPRENANT UN TEL SYSTEME DE TRAITE**

[72] DE GROOT, PIETER GERLOF, NL

[72] STEENBERGEN, RIK, NL

[72] TEN HAVE, IDA HELENA, NL

[72] GOUW, ANNEKE, NL

[71] LELY PATENT N.V., NL

[85] 2021-03-22

[86] 2019-10-10 (PCT/NL2019/050674)

[87] (WO2020/080936)

[30] NL (2021820) 2018-10-16

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[21] **3,113,773**
[13] A1

[51] **Int.Cl. G10H 1/02 (2006.01) G10H 1/36 (2006.01)**

[25] EN

[54] **REAL-TIME MUSIC GENERATION ENGINE FOR INTERACTIVE SYSTEMS**

[54] **MOTEUR DE GENERATION DE MUSIQUE EN TEMPS REEL POUR SYSTEMES INTERACTIFS**

[72] NORDIN, JESPER, SE
[72] LILJEDAHL, JONATAN, SE
[72] KJELLBERG, JONAS, SE
[72] GUNNARS RISBERG, PAR, SE
[71] GESTRUMENT AB, SE
[85] 2021-03-22
[86] 2019-09-20 (PCT/SE2019/050899)
[87] (WO2020/067969)
[30] SE (1851145-1) 2018-09-25

[21] **3,113,774**
[13] A1

[51] **Int.Cl. H02G 1/08 (2006.01) B66C 1/44 (2006.01) B66F 3/00 (2006.01) F16G 11/04 (2006.01) F16G 11/10 (2006.01) F16L 13/00 (2006.01) F16L 17/00 (2006.01)**

[25] EN

[54] **CABLE SECURING DEVICE**

[54] **DISPOSITIF DE FIXATION DE CABLE**

[72] CROMPTON, DAVID B., US
[72] DIAS, LIBARDO OCHOA, US
[72] BOUCHARD, HERBERT J., US
[71] QUICK FITTING HOLDING COMPANY, LLC, US
[85] 2021-03-22
[86] 2018-10-01 (PCT/US2018/053775)
[87] (WO2019/070592)
[30] US (62/569,101) 2017-10-06

[21] **3,113,775**
[13] A1

[51] **Int.Cl. G10H 1/02 (2006.01) G10H 1/26 (2006.01) G10H 1/36 (2006.01)**

[25] EN

[54] **INSTRUMENT AND METHOD FOR REAL-TIME MUSIC GENERATION**

[54] **INSTRUMENT ET PROCEDE POUR LA PRODUCTION DE MUSIQUE EN TEMPS REEL**

[72] NORDIN, JESPER, SE
[72] LILJEDAHL, JONATAN, SE
[72] KJELLBERG, JONAS, SE
[72] GUNNARS RISBERG, PAR, SE
[71] GESTRUMENT AB, SE
[85] 2021-03-22
[86] 2019-09-24 (PCT/SE2019/050909)
[87] (WO2020/067972)

[21] **3,113,776**
[13] A1

[25] EN

[54] **SYSTEMS AND METHODS OF IDENTIFYING AND MANAGING REMOTELY PILOTED AND PILOTED AIR TRAFFIC**

[54] **SYSTEMES ET PROCEDES D'IDENTIFICATION ET DE GESTION DE TRAFIC AERIEN PILOTE ET PILOTE A DISTANCE**

[72] PIERCE, AARON, US
[71] PIERCE AEROSPACE, LLC, US
[85] 2021-03-22
[86] 2018-09-22 (PCT/US2018/052328)
[87] (WO2020/060573)

[21] **3,113,777**
[13] A1

[51] **Int.Cl. A61K 8/72 (2006.01) A61K 8/73 (2006.01) A61K 8/81 (2006.01) A61Q 11/00 (2006.01)**

[25] EN

[54] **ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME**

[54] **COMPOSITIONS DE SOIN BUCCAL ET PROCEDES DESDITES COMPOSITIONS**

[72] NORTH, MICHAEL, US
[72] DONG, RONG, US
[72] PIMENTA, PALOMA, US
[72] PILCH, SHIRA, US
[71] COLGATE-PALMOLIVE COMPANY, US
[85] 2021-03-22
[86] 2018-10-16 (PCT/US2018/055971)
[87] (WO2020/081050)

[21] **3,113,779**
[13] A1

[51] **Int.Cl. E21B 43/26 (2006.01) E21B 41/00 (2006.01) E21B 43/17 (2006.01)**

[25] EN

[54] **HIGH-PRESSURE MANIFOLD FOR WELL STIMULATION MATERIAL DELIVERY**

[54] **COLLECTEUR HAUTE PRESSION POUR DISTRIBUTION DE MATERIAU DE STIMULATION DE Puits**

[72] GULLICKSON, GEOFFREY WEDELL, US
[72] STABENAU, JOHN DEAN, US
[72] DOUCETTE, JON PRESTON, US
[72] RUHLE, WILLIAM OWEN ALEXANDER, US
[72] GRISINGER, RICHARD DAVID, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-03-22
[86] 2018-12-10 (PCT/US2018/064661)
[87] (WO2020/122854)

[21] **3,113,780**
[13] A1

[51] **Int.Cl. B65F 5/00 (2006.01) B01D 45/00 (2006.01) B01D 46/00 (2006.01) B04C 11/00 (2006.01) B65F 1/10 (2006.01) B65G 43/00 (2006.01) B65G 53/34 (2006.01)**

[25] EN

[54] **METHOD FOR HANDLING MATERIAL IN A MATERIAL CONVEYING SYSTEM, A SEPARATING DEVICE ARRANGEMENT AND A MATERIAL CONVEYING SYSTEM**

[54] **PROCEDE DE MANIPULATION DE MATERIAU DANS UN SYSTEME DE TRANSPORT DE MATERIAU, AGENCEMENT DE DISPOSITIF DE SEPARATION ET SYSTEME DE TRANSPORT DE MATERIAU**

[72] SUNDHOLM, GORAN, FI
[71] MARICAP OY, FI
[85] 2021-03-22
[86] 2019-10-11 (PCT/FI2019/050729)
[87] (WO2020/084190)
[30] FI (20185883) 2018-10-22

Demandes PCT entrant en phase nationale

[21] **3,113,781**
[13] A1

[51] **Int.Cl. F16L 19/00 (2006.01) F16L 37/00 (2006.01) F16L 37/084 (2006.01) H02G 3/06 (2006.01)**

[25] EN

[54] **FITTING DEVICE, ARRANGEMENT AND METHOD**

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

[72] CROMPTON, DAVID B., US

[72] DIAS, LIBARDO OCHOA, US

[72] BOUCHARD, HERBERT J., US

[71] QUICK FITTING HOLDING COMPANY, LLC, US

[85] 2021-03-22

[86] 2018-09-24 (PCT/US2018/052337)

[87] (WO2019/067333)

[30] US (15/716,869) 2017-09-27

[21] **3,113,782**
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01) A61K 47/58 (2017.01) A61K 47/64 (2017.01) A61K 47/65 (2017.01) A61K 47/69 (2017.01) A61K 9/00 (2006.01) A61K 9/107 (2006.01) A61K 39/385 (2006.01) A61K 47/18 (2017.01)**

[25] EN

[54] **AROMATIC RING SUBSTITUTED AMPHIPHILIC POLYMERS AS DRUG DELIVERY SYSTEMS**

[54] **POLYMERES AMPHIPHILES SUBSTITUES PAR UN NOYAU AROMATIQUE EN TANT QUE SYSTEMES D'ADMINISTRATION DE MEDICAMENT**

[72] LYNN, GEOFFREY, US

[72] ZHU, YALING, US

[72] NICHOLS, SARAH, US

[72] ISHIZUKA, ANDREW, US

[71] AVIDEA TECHNOLOGIES, INC., US

[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US

[85] 2021-03-22

[86] 2019-10-02 (PCT/US2019/054343)

[87] (WO2020/072681)

[30] US (62/740,837) 2018-10-03

[30] US (62/851,523) 2019-05-22

[21] **3,113,783**
[13] A1

[51] **Int.Cl. B66C 1/42 (2006.01)**

[25] EN

[54] **LIFT FIXTURE FOR HEAT EXCHANGER HEADER AND METHOD OF LIFTING HEAT EXCHANGER HEADER**

[54] **ACCESSOIRE DE LEVAGE POUR UN COLLECTEUR D'ECHANGEUR DE CHALEUR ET PROCEDE DE LEVAGE DE COLLECTEUR D'ECHANGEUR DE CHALEUR**

[72] LANPHIER, MICHAEL, US

[72] SNELL, DAVID, US

[71] E&C FINFAN, INC., US

[85] 2021-03-22

[86] 2019-10-17 (PCT/US2019/056750)

[87] (WO2020/081821)

[30] US (62/747,633) 2018-10-18

[21] **3,113,784**
[13] A1

[51] **Int.Cl. G06F 40/166 (2020.01) G06Q 10/10 (2012.01) G06F 40/103 (2020.01) G06F 40/186 (2020.01) G06F 40/56 (2020.01)**

[25] EN

[54] **AUTOMATED PRODUCTION OF DATA-DRIVEN REPORTS WITH DESCRIPTIVE AND RICH TEXT AND GRAPHICAL CONTENTS**

[54] **PRODUCTION AUTOMATISEE DE RAPPORTS DIRIGES PAR DES DONNEES AVEC UN TEXTE DESCRIPTIF ET RICHE ET DES CONTENUS GRAPHIQUES**

[72] CHOE, KEESUP, GB

[71] PREDICTX LIMITED, GB

[85] 2021-03-22

[86] 2019-05-23 (PCT/US2019/033864)

[87] (WO2019/226965)

[30] US (62/675,711) 2018-05-23

[30] US (62/676,277) 2018-05-24

[21] **3,113,785**
[13] A1

[51] **Int.Cl. A61N 1/372 (2006.01) A61N 1/36 (2006.01) G06T 7/00 (2017.01)**

[25] EN

[54] **TOOL TO USE IMAGE FOR PROGRAMMING NEUROMODULATION**

[54] **OUTIL POUR UTILISER UNE IMAGE POUR PROGRAMMER UNE NEUROMODULATION**

[72] HUERTAS FERNANDEZ, ISMAEL, ES

[72] MCDONALD, MATTHEW LEE, US

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[54] **PROCEDES ET DISPOSITIFS DE CARACTERISATION DE MEMBRANE A L'AIDE D'ULTRASON ET D'ECLAIRAGE OPTIQUE**
[72] MOEHRING, MARK A., US
[72] KREINDLER, DANIEL, US
[72] CORREDOR, CHARLIE, US
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[72] THEURL, IGOR, GB
[72] CARVALHO, JOANA DE ABREU, GB
[72] LECOINTRE, MORGANE MARIE, GB
[72] PAPWORTH, JONATHAN LESLIE, GB
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[54] **PROTEINES DE LIAISON SIRPA ET METHODES D'UTILISATION DE CELLES-CI**
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[72] FENALTI, GUSTAVO, US
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[54] **PROCEDES DE FABRICATION ET DE FONCTIONNEMENT DE CAPTEURS DE CARACTERISTIQUES PHYSIOLOGIQUES**
[72] MAIRS, NICHOLAS S., US
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[72] MATTHEWS, JUSTIN CLIFFORD, AU
[72] KARLGAARD, MATTHEW DONALD, US
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[72] DRAKE, BRANDON LEE GOODCHILD, US

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[54] **AGREGATION DE MODELES PAR ENCAPSULATION DE MODELES D'APPRENTISSAGE AUTOMATIQUE ITERATIF ORIENTE PAR L'UTILISATEUR**

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[71] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB
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[71] LYONDELL CHEMICAL TECHNOLOGY, L.P., US
[71] VP RACING FUELS, INC., US
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[72] FUNK, BRIAN J., US
[72] VANDENBRINK, EVAN, US
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[72] DUAN, SHENGQUAN, US
[72] HAWKINS, JOEL MICHAEL, US
[72] HAYWARD, CHERYL MYERS, US
[72] MALONEY, MARK THOMAS, US
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[30] US (62/736,010) 2018-09-25
[30] US (62/870,462) 2019-07-03
[30] US (62/892,884) 2019-08-28

[21] **3,113,833**
[13] A1

[51] **Int.Cl. A61B 17/17 (2006.01)**
[25] EN
[54] **METAPHYSEAL REFERENCING TECHNIQUE AND INSTRUMENT**
[54] **INSTRUMENT ET TECHNIQUE DE REFERENCEMENT DE METAPHYSE**
[72] WOLFE, ALEXANDER PAUL, US
[72] STUMP, DAVID R., US
[71] TORNIER, INC., US
[85] 2021-03-22
[86] 2019-10-01 (PCT/US2019/054024)
[87] (WO2020/072466)
[30] US (62/740,257) 2018-10-02

[21] **3,113,835**
[13] A1

[51] **Int.Cl. A61L 9/22 (2006.01) A61L 2/14 (2006.01)**
[25] EN
[54] **A DEVICE AND METHOD FOR CONTROLLING SCENT**
[54] **DISPOSITIF ET PROCEDURE POUR REGULER UN PARFUM**
[72] ROACH, BRANDON, US
[72] LEI, OU, US
[72] NG, TECK KHOON, US
[72] NGAI, TIN HUNG, US
[72] WU, SIU WA RICKY, US
[72] MCCUNE, CLARK, US
[71] WILDGAME INNOVATIONS, LLC, US
[85] 2021-03-22
[86] 2019-10-02 (PCT/US2019/054179)
[87] (WO2020/072569)
[30] US (62/739,957) 2018-10-02
[30] US (16/589,847) 2019-10-01

[21] **3,113,836**
[13] A1

[51] **Int.Cl. A61K 8/24 (2006.01) A61Q 11/00 (2006.01)**
[25] EN
[54] **ORAL CARE COMPOSITIONS COMPRISING MEDIUM LENGTH POLYPHOSPHATES**
[54] **COMPOSITIONS DE SOINS BUCCODENTAIRES COMPRENANT DES POLYPHOSPHATES DE LONGUEUR MOYENNE**
[72] RAMJI, NIRANJAN, US
[72] CURTIS, MICHAEL DAVID, US
[72] ST. JOHN, SAMUEL JAMES, US
[72] PEARSON, KATHLEEN, US
[72] WITTE, LINA AURORA, US
[72] NOLAND, ANDREA, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2021-03-22
[86] 2019-11-07 (PCT/US2019/060207)
[87] (WO2020/097290)
[30] US (62/756,666) 2018-11-07

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[21] **3,113,837**
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) C07K 14/54 (2006.01)**
[25] EN
[54] **SAFE AND EFFECTIVE METHOD OF TREATING ULCERATIVE COLITIS WITH ANTI-IL12/IL23 ANTIBODY**
[54] **METHODE SURE ET EFFICACE DE TRAITEMENT DE LA RECTOCOLITE HEMORRAGIQUE AVEC UN ANTICORPS ANTI-IL12/IL23**
[72] JOHANNES, JEWEL, US
[72] LI, KATHERINE, US
[72] MARANO, COLLEEN, US
[72] STRAUSS, RICHARD, US
[72] ZHANG, HONGYAN, US
[72] ADEDOKUN, OMONIYI, US
[72] O'BRIEN, CHRISTOPHER, US
[72] SHIELDS-TUTTLE, KIMBERLY, US
[71] JANSSEN BIOTECH, INC., US
[85] 2021-03-22
[86] 2019-09-24 (PCT/IB2019/058098)
[87] (WO2020/065532)
[30] US (62/735,501) 2018-09-24
[30] US (62/769,818) 2018-11-20
[30] US (62/895,774) 2019-09-04

[21] **3,113,839**
[13] A1

[51] **Int.Cl. G06F 9/44 (2018.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ENHANCING A USER INTERFACE FOR A WEB APPLICATION**
[54] **PROCEDE ET SYSTEME POUR AMELIORER UNE INTERFACE UTILISATEUR POUR UNE APPLICATION WEB**
[72] MYERS, CHRISTOPHER M., US
[71] EXPRESS SCRIPTS STRATEGIC DEVELOPMENT, INC., US
[85] 2021-03-22
[86] 2019-11-19 (PCT/US2019/062152)
[87] (WO2020/106686)
[30] US (16/196,321) 2018-11-20

[21] **3,113,840**
[13] A1

[51] **Int.Cl. H05B 3/02 (2006.01) C23C 4/04 (2006.01) C23C 4/10 (2016.01) H05B 3/12 (2006.01)**
[25] EN
[54] **A HEATING DEVICE, APPLICATIONS THEREFORE, AN OHMICALLY RESISTIVE COATING, A METHOD OF DEPOSITING THE COATING USING COLD SPRAY AND A BLEND OF PARTICLES FOR USE THEREIN**
[54] **DISPOSITIF DE CHAUFFAGE, SES APPLICATIONS, REVETEMENT A RESISTANCE OHMIQUE, PROCEDE DE DEPOT DU REVETEMENT A L'AIDE D'UNE PULVERISATION A FROID ET MELANGE DE PARTICULES A UTILISER DANS CE DERNIER**
[72] LEWIS, JOHN FREDERICK, GB
[72] RUTHERFORD, MARCUS WILLIAM, GB
[72] KEATING, STEVEN GEORGE, GB
[71] 2D HEAT LIMITED, GB
[85] 2021-03-22
[86] 2019-09-27 (PCT/IB2019/058239)
[87] (WO2020/065612)
[30] GB (1815753.7) 2018-09-27

[21] **3,113,841**
[13] A1

[51] **Int.Cl. C12N 15/10 (2006.01)**
[25] EN
[54] **HIGH-THROUGHPUT SINGLE-NUCLEI AND SINGLE-CELL LIBRARIES AND METHODS OF MAKING AND OF USING**
[54] **BANQUES DE NOYAUX UNIQUES ET A CELLULE UNIQUE A HAUT RENDEMENT ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**
[72] SRIVATSAN, SANJAY, US
[72] MCFALINE-FIGUEROA, JOSE, US
[72] RAMANI, VIJAY, US
[72] CAO, JUNYUE, US
[72] BOOTH, GREGORY, US
[72] SHENDURE, JAY, US
[72] TRAPNELL, COLE, US
[72] STEEMERS, FRANK J., US
[71] ILLUMINA, INC., US
[71] UNIVERSITY OF WASHINGTON, US
[85] 2021-03-22
[86] 2020-03-02 (PCT/US2020/020637)
[87] (WO2020/180778)
[30] US (62/812,853) 2019-03-01

[21] **3,113,842**
[13] A1

[51] **Int.Cl. A47C 3/026 (2006.01)**
[25] EN
[54] **CHAIR**
[54] **CHAISE**
[72] KINOSHITA, YOJIRO, JP
[72] HAYASHI, KATSUAKI, JP
[72] SUGANO, TAKAO, JP
[72] ASANO, KENTA, JP
[72] KANOU, TAKAYOSHI, JP
[72] SHIOZAWA, KENTA, JP
[72] NAKAMURA, KENSUKE, JP
[72] TSUKADAIRA, KAZUKI, JP
[72] NIIMURA, NAOYA, JP
[71] KOKUYO CO., LTD., JP
[71] TAKANO CO., LTD., JP
[85] 2021-03-22
[86] 2018-10-19 (PCT/JP2018/039048)
[87] (WO2020/079840)

[21] **3,113,844**
[13] A1

[51] **Int.Cl. B23Q 11/10 (2006.01)**
[25] EN
[54] **MACHINE TOOL FLUID NOZZLE DEVICE**
[54] **DISPOSITIF DE BUSE DE FLUIDE POUR MACHINE-OUTIL**
[72] SEKINE, ATSUHIRO, JP
[72] NAKAMURA, TETSUYA, JP
[72] YAJIMA, MASAHIRO, JP
[71] MITSUISEIKI KOGYO KABUSHIKI KAISHA, JP
[85] 2021-03-22
[86] 2019-09-18 (PCT/JP2019/036520)
[87] (WO2020/066782)
[30] JP (2018-181407) 2018-09-27

[21] **3,113,848**
[13] A1

[51] **Int.Cl. A23L 13/70 (2016.01) A23L 13/40 (2016.01) A23L 17/00 (2016.01) A23L 17/40 (2016.01)**
[25] EN
[54] **LIQUID FOR FLESH PROCESSING**
[54] **LIQUIDE DE TRAITEMENT DE VIANDE**
[72] KATO, KENTA, JP
[72] KASAHARA, TSUKASA, JP
[72] SAITO, SANSHIRO, JP
[71] J-OIL MILLS, INC., JP
[85] 2021-03-22
[86] 2019-09-19 (PCT/JP2019/036807)
[87] (WO2020/066845)
[30] JP (2018-185925) 2018-09-28

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[21] **3,113,849**
[13] A1

[51] **Int.Cl. C04B 28/04 (2006.01) B33Y 70/10 (2020.01) B28B 19/00 (2006.01) C04B 14/10 (2006.01) C04B 24/02 (2006.01) C04B 24/26 (2006.01) C04B 24/38 (2006.01)**

[25] EN

[54] **CEMENT-BASED DIRECT INK FOR 3D PRINTING OF COMPLEX ARCHITECTED STRUCTURES**

[54] **ENCRE DIRECTE A BASE DE CIMENT POUR IMPRESSION 3D DE STRUCTURES ARCHITECTUREES COMPLEXES**

[72] RAHMAN, MUHAMMAD M., US
[72] SAJADI, SEYED MOHAMMAD, US
[72] KUMAR, ASHOK, US
[72] BOUL, PETER J., US
[72] THAEMLITZ, CARL, US
[72] AJAYAN, PULICKEL M., US
[71] SAUDI ARABIAN OIL COMPANY, SA

[71] WILLIAM MARSH RICE UNIVERSITY, US

[85] 2021-03-22
[86] 2019-10-07 (PCT/US2019/055039)
[87] (WO2020/076724)
[30] US (62/742,706) 2018-10-08

[21] **3,113,852**
[13] A1

[51] **Int.Cl. B01F 15/04 (2006.01) B29B 7/74 (2006.01) B29B 7/76 (2006.01) B29C 44/34 (2006.01) B29C 67/24 (2006.01) B29B 7/80 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR PRODUCING AND DISPENSING A REACTION MIXTURE**

[54] **APPAREIL ET PROCEDE DE PRODUCTION ET DE DISTRIBUTION D'UN MELANGE REACTIF**

[72] VERBANCK, KAREL, BE
[72] SICHEN, LIEVEN, BE
[72] VANDERVELDEN, JURGEN, BE
[72] TRIMBOS, YVO F H, NL
[72] BOEYKENS, IVAN, BE
[72] LANNOO, BART, BE
[71] SOUDAL, BE

[85] 2020-10-20
[86] 2019-04-26 (PCT/EP2019/060769)
[87] (WO2019/207121)
[30] BE (BE2018/5279) 2018-04-26

[21] **3,113,854**
[13] A1

[51] **Int.Cl. H04N 19/136 (2014.01) H04N 19/159 (2014.01) H04N 19/176 (2014.01) H04N 19/186 (2014.01)**

[25] EN

[54] **METHOD AND APPARATUS OF ENCODING OR DECODING USING REFERENCE SAMPLES DETERMINED BY PREDEFINED CRITERIA**

[54] **PROCEDE ET APPAREIL DE CODAGE OU DE DECODAGE A L'AIDE D'ECHANTILLONS DE REFERENCE DETERMINES PAR DES CRITERES PREDEFINIS**

[72] LIN, ZHI-YI, CN
[72] CHUANG, TZU-DER, CN
[72] CHEN, CHING-YEH, CN
[71] MEDIATEK INC., CN

[85] 2021-03-23
[86] 2019-10-09 (PCT/CN2019/110160)
[87] (WO2020/073924)
[30] US (62/743,284) 2018-10-09
[30] US (62/767,609) 2018-11-15
[30] US (62/818,314) 2019-03-14

[21] **3,113,858**
[13] A1

[51] **Int.Cl. B65H 45/12 (2006.01) B42C 19/00 (2006.01) B65H 29/46 (2006.01) B65H 29/62 (2006.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR FOLDING AND STOCKING BOOK DOCUMENTS**

[54] **DISPOSITIF ET PROCEDE DE PLIAGE ET DE MISE EN RESERVE DES DOCUMENTS DE TYPE LIVRE**

[72] KLEINDIENST, UWE, DE
[71] MUEHLBAUER GMBH & CO. KG, DE

[85] 2021-03-19
[86] 2019-11-27 (PCT/EP2019/082652)
[87] (WO2020/109345)
[30] DE (10 2018 009 417.1) 2018-11-30

[21] **3,113,860**
[13] A1

[51] **Int.Cl. H04N 19/597 (2014.01) H04N 19/11 (2014.01) H04N 19/117 (2014.01) H04N 19/119 (2014.01) H04N 19/124 (2014.01) H04N 19/13 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/593 (2014.01) H04N 19/625 (2014.01)**

[25] EN

[54] **IMAGE ENCODING/DECODING METHOD AND DEVICE**

[54] **PROCEDE ET DISPOSITIF DE CODAGE/DECODAGE D'IMAGE**

[72] KIM, KI BAEK, KR
[71] B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., KR

[85] 2021-03-22
[86] 2019-09-24 (PCT/KR2019/012404)
[87] (WO2020/067700)
[30] KR (10-2018-0114536) 2018-09-24
[30] KR (10-2018-0114540) 2018-09-24
[30] KR (10-2018-0114539) 2018-09-24

[21] **3,113,861**
[13] A1

[51] **Int.Cl. H04N 19/593 (2014.01) H04N 19/11 (2014.01) H04N 19/119 (2014.01) H04N 19/122 (2014.01) H04N 19/124 (2014.01) H04N 19/129 (2014.01) H04N 19/132 (2014.01) H04N 19/176 (2014.01) H04N 19/61 (2014.01)**

[25] EN

[54] **METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE FOR SAME**

[54] **PROCEDE DE CODAGE/DECODAGE DE SIGNAL D'IMAGE ET DISPOSITIF ASSOCIE**

[72] LEE, BAE KEUN, KR
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2021-03-22
[86] 2019-10-11 (PCT/KR2019/013384)
[87] (WO2020/076125)
[30] KR (10-2018-0121713) 2018-10-12
[30] KR (10-2018-0121757) 2018-10-12
[30] KR (10-2019-0006611) 2019-01-18

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[51] Int.Cl. A61K 9/00 (2006.01) A61K 31/4168 (2006.01) A61K 31/541 (2006.01) A61K 47/44 (2017.01) A61P 33/02 (2006.01) A61P 35/00 (2006.01) [25] EN [54] NANOSTRUCTURED NANOPARTICLES THAT INCLUDE ONE OR MORE ACTIVE INGREDIENTS FOR THE TREATMENT OF DISEASES PRODUCED BY TRYPANOSOMES AND FOR THE TREATMENT OF TUMOURS OF NEURAL ORIGIN, COMPOSITIONS THAT INCLUDE THEM, A METHOD OF PREPARATION AND USE	[51] Int.Cl. C07K 16/18 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07K 16/22 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 1/15 (2006.01) C12N 1/19 (2006.01) C12N 1/21 (2006.01) C12N 5/10 (2006.01) C12N 15/09 (2006.01) C12N 15/13 (2006.01) C12N 15/63 (2006.01) [25] EN [54] ANTI-CD79B ANTIBODIES, DRUG CONJUGATES, AND APPLICATIONS THEREOF [54] ANTICORPS ANTI-CD79B, CONJUGUES ANTICORPS-MEDICAMENTS ET UTILISATIONS ASSOCIEES	[51] Int.Cl. B65D 81/38 (2006.01) B65D 85/78 (2006.01) [25] EN [54] REUSABLE CONTAINER FOR FROZEN PRODUCTS [54] RECIPIENT REUTILISABLE DESTINE A DES PRODUITS CONGELES [72] SEE THO, TOMMY, MY [71] SOCIETE DES PRODUITS NESTLE S.A., CH [85] 2021-03-23 [86] 2019-10-11 (PCT/EP2019/077558) [87] (WO2020/074685) [30] US (62/744891) 2018-10-12
[54] NANOPARTICULES NANOSTRUCUREES QUI COMPRENENT UN OU PLUSIEURS PRINCIPES ACTIFS POUR LE TRAITEMENT DE MALADIES PRODUITES PAR DES TRYPANOSOMES ET POUR LE TRAITEMENT DE TUMEURS D'ORIGINE NEURALE, COMPOSITIONS QUI COMPRENENT CES NANOPARTICULES NANOSTRUCUREES, PROCEDE DE PREPARATION ET D'UTILISATION THERAPEUTIQUES DE CES DERNIERES [72] CARRICARTE, VALENTINA, AR [72] ROLDAN, EMILIO, AR [71] GADOR LIMITADA, CL [85] 2021-03-23 [86] 2018-08-21 (PCT/CL2018/050067) [87] (WO2020/037438)	[72] HAN, NIANHE, CN [72] SONG, LIWEI, CN [72] AN, DEQIANG, CN [72] ZENG, DI, CN [72] LI, HUALI, CN [72] YANG, CHUN, CN [71] NEWBIO THERAPEUTICS, INC., CN [85] 2021-03-23 [86] 2019-10-31 (PCT/CN2019/114676) [87] (WO2020/088587) [30] CN (201811296100.8) 2018-11-01	[21] 3,113,868 [13] A1
	[21] 3,113,865 [13] A1	[51] Int.Cl. A61K 36/16 (2006.01) A61K 9/00 (2006.01) A61K 31/70 (2006.01) A61P 7/02 (2006.01) A61P 9/10 (2006.01) [25] EN [54] GINKGO BILOBA KETONE ESTER AND PREPARATION METHOD THEREOF [54] EXTRAIT DE FEUILLES DE GINKGO BILOBA ET SON PROCEDE DE PREPARATION [72] WANG, JUN, CN [72] GAO, QI, CN [72] SHEN, QIN, CN [72] ZHU, BAOZHONG, CN [72] WANG, DANDAN, CN [72] WANG, JINFENG, CN [72] WEI, YAFANG, CN [72] ZHU, GUOQIN, CN [71] SPH XING LING SCI. & TECH. PHARMACEUTICAL CO., LTD., CN [85] 2021-03-23 [86] 2018-09-12 (PCT/CN2018/105257) [87] (WO2020/037737) [30] CN (201810945379.1) 2018-08-20
	[51] Int.Cl. G01S 19/04 (2010.01) G01S 19/07 (2010.01) [25] EN [54] METHOD FOR PRECISE POINT POSITIONING IN A SATELLITE NAVIGATION SYSTEM [54] PROCEDE DE POSITIONNEMENT PONCTUEL PRECIS DANS UN SYSTEME DE NAVIGATION PAR SATELLITE [72] HENKEL, PATRICK, DE [71] HENKEL, PATRICK, DE [85] 2021-03-23 [86] 2018-09-26 (PCT/EP2018/076182) [87] (WO2019/063645) [30] EP (17193912.7) 2017-09-28	

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[21] **3,113,869**
[13] A1

[51] **Int.Cl. A01N 57/20 (2006.01) A01N 25/00 (2006.01) A01P 13/00 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **USE OF GLYPHOSATE HERBICIDE FOR CONTROLLING UNWANTED VEGETATION IN BETA VULGARIS GROWING AREAS**

[54] **UTILISATION D'UN HERBICIDE A BASE DE GLYPHOSATE POUR LUTTER CONTRE LA VEGETATION INDESIRABLE DANS DES ZONES DE CROISSANCE DE BETA VULGARIS**

[72] CZARNECKI, OLAF, DE
[72] GERTZ, MAIK, DE
[72] LEIN, JENS CHRISTOPH, DE
[72] WURBS, DAVID, DE
[71] KWS SAAT SE & CO. KGAA, DE
[85] 2021-03-23
[86] 2019-09-24 (PCT/EP2019/075634)
[87] (WO2020/064688)
[30] EP (18196615.1) 2018-09-25

[21] **3,113,870**
[13] A1

[51] **Int.Cl. G06Q 20/40 (2012.01) H04L 29/06 (2006.01)**

[25] EN

[54] **AN APPARATUS, COMPUTER PROGRAM AND METHOD**

[54] **APPAREIL, PROGRAMME INFORMATIQUE ET PROCEDE**

[72] DEWAR, MICHAEL, GB
[71] IPCO 2012 LIMITED, GB
[85] 2021-03-23
[86] 2019-09-18 (PCT/EP2019/075022)
[87] (WO2020/064462)
[30] EP (18197520.2) 2018-09-28

[21] **3,113,871**
[13] A1

[51] **Int.Cl. H04W 74/08 (2009.01)**

[25] EN

[54] **METHODS, APPARATUS AND SYSTEMS FOR PERFORMING A RANDOM ACCESS PROCEDURE IN A WIRELESS COMMUNICATION**

[54] **PROCEDES, APPAREIL ET SYSTEMES POUR EFFECTUER UNE PROCEDURE D'ACCES ALEATOIRE DANS UNE COMMUNICATION SANS FIL**

[72] HUANG, HE, CN
[71] ZTE CORPORATION, CN
[85] 2021-03-23
[86] 2018-09-27 (PCT/CN2018/107998)
[87] (WO2020/034319)

[21] **3,113,872**
[13] A1

[51] **Int.Cl. D04H 3/002 (2012.01) D04H 3/011 (2012.01) D04H 3/016 (2012.01) D04H 3/147 (2012.01) D04H 3/07 (2012.01) E02B 3/12 (2006.01) E02D 17/20 (2006.01)**

[25] EN

[54] **PROTECTIVE DEVICE, SLOPE SECURING MEANS AW WELL AS USE OF AND METHOD FOR PRODUCING THE PROTECTIVE DEVICE**

[54] **DISPOSITIF DE PROTECTION, STABILISATEUR DE TALUS, AINSI QU'UTILISATION ET PROCEDE DE FABRICATION DU DISPOSITIF DE PROTECTION**

[72] WENDELER-GOEGGELMANN, CORINNA, CH
[71] GEOBRUGG AG, CH
[85] 2021-03-23
[86] 2019-09-24 (PCT/EP2019/075703)
[87] (WO2020/064725)
[30] DE (10 2018 123 477.5) 2018-09-24

[21] **3,113,873**
[13] A1

[51] **Int.Cl. C12N 15/82 (2006.01) C12Q 1/6895 (2018.01) A01H 1/04 (2006.01) A01H 5/00 (2018.01) A01H 5/06 (2018.01) A01N 57/20 (2006.01) C12N 9/10 (2006.01) C12N 15/54 (2006.01)**

[25] EN

[54] **METHOD FOR CONTROLLING WEED BEETS AND OTHER WEEDS**

[54] **PROCEDE POUR LE DESHERBAGE DE LA BETTERAVE SUCRIERE ET POUR D'AUTRES MAUVAISES HERBES**

[72] CZARNECKI, OLAF, DE
[72] GERTZ, MAIK, DE
[72] LEIN, JENS CHRISTOPH, DE
[72] WURBS, DAVID, DE
[71] KWS SAAT SE & CO. KGAA, DE
[85] 2021-03-23
[86] 2019-09-24 (PCT/EP2019/075633)
[87] (WO2020/064687)
[30] EP (18196607.8) 2018-09-25

[21] **3,113,874**
[13] A1

[51] **Int.Cl. C07C 67/30 (2006.01) C07B 53/00 (2006.01) C07D 261/04 (2006.01)**

[25] EN

[54] **PROCESS FOR PREPARATION OF OPTICALLY ENRICHED ALDOL COMPOUNDS**

[54] **PROCEDE DE PREPARATION DE COMPOSES D'ALDOL OPTIQUEMENT ENRICHIS**

[72] KOERBER, KARSTEN, DE
[72] HUWYLER, NIKOLAS, DE
[72] NARINE, ARUN, DE
[72] MCLAUGHLIN, MARTIN JOHN, DE
[72] BORATE, KAILASKUMAR, IN
[71] BASF SE, DE
[85] 2021-03-23
[86] 2019-10-18 (PCT/EP2019/078309)
[87] (WO2020/088949)
[30] EP (18203033.8) 2018-10-29

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[21] **3,113,875**
[13] A1

[51] **Int.Cl. H01L 41/45 (2013.01) H01L 41/29 (2013.01) H01L 41/297 (2013.01) H01L 41/047 (2006.01) H01L 41/193 (2006.01)**

[25] EN

[54] **ELECTROACTIVE POLYMER DEVICE AND METHOD FOR MANUFACTURING SUCH AN ELECTROACTIVE POLYMER DEVICE**

[54] **DISPOSITIF POLYMERE ELECTROACTIF ET PROCEDE DE FABRICATION DE CE DISPOSITIF POLYMERE ELECTROACTIF**

[72] TAINE, EMMANUEL, MC
[72] JEAN, PHILLIPE, MC
[72] BOULARD, REGIS, MC
[71] SINGLE BUOY MOORINGS INC., CH
[85] 2021-03-23
[86] 2019-09-25 (PCT/EP2019/075930)
[87] (WO2020/064872)
[30] EP (18306262.9) 2018-09-26

[21] **3,113,877**
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 31/7105 (2006.01) A61K 31/713 (2006.01) A61K 48/00 (2006.01) C12N 15/88 (2006.01) C12N 15/90 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR TRANSFECTING MRNA INTO A CELL AND THEIR APPLICATIONS**

[54] **COMPOSITIONS POUR TRANSFECTER UN ARNM DANS UNE CELLULE ET LEURS APPLICATIONS**

[72] STOCK, FABRICE, FR
[72] TOUSSAINT MOREAU, VALERIE, FR
[72] ERBACHER, PATRICK, FR
[71] POLYPLUS TRANSFECTION, FR
[85] 2021-03-23
[86] 2019-10-30 (PCT/EP2019/079742)
[87] (WO2020/089342)
[30] EP (18306417.9) 2018-10-30

[21] **3,113,879**
[13] A1

[51] **Int.Cl. B60N 3/02 (2006.01)**

[25] EN

[54] **GRAB BAR ASSEMBLY FOR A VEHICLE**

[54] **ENSEMBLE BARRE D'APPUI DESTINEE A UN VEHICULE**

[72] SMITH, TIMOTHY CLAYTON, US
[72] HENRICKSON, JESSE, US
[72] WYGANT, LUCAS, US
[71] KA GROUP AG, CH
[85] 2021-03-23
[86] 2018-09-28 (PCT/IB2018/057573)
[87] (WO2020/065383)

[21] **3,113,881**
[13] A1

[51] **Int.Cl. G06F 21/31 (2013.01) H04L 9/32 (2006.01)**

[25] EN

[54] **METHOD FOR PROCESSING A TRANSACTION, CORRESPONDING DEVICE, SYSTEM AND PROGRAM**

[54] **PROCEDE DE TRAITEMENT D'UNE TRANSACTION, DISPOSITIF, SYSTEME ET PROGRAMME CORRESPONDANT**

[72] QUENTIN, PIERRE, FR
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[85] 2021-03-23
[86] 2019-09-25 (PCT/EP2019/075953)
[87] (WO2020/064890)
[30] FR (1858754) 2018-09-25

[21] **3,113,883**
[13] A1

[51] **Int.Cl. C04B 35/636 (2006.01) C04B 35/83 (2006.01)**

[25] EN

[54] **METHOD OF PRODUCING A CARBON-CERAMIC SHAPED BODY**

[54] **PROCEDE DE PRODUCTION D'UN CORPS MOULE EN CARBONE-CERAMIQUE**

[72] SCHNECK, TANJA, DE
[72] HERMANUTZ, FRANK, DE
[71] DEUTSCHE INSTITUTE FUR TEXTIL- UND FASERFORSCHUNG DENKENDORF, DE
[85] 2021-03-23
[86] 2019-09-26 (PCT/EP2019/076117)
[87] (WO2020/064972)

[21] **3,113,886**
[13] A1

[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 31/47 (2006.01) A61K 31/4709 (2006.01) A61K 31/49 (2006.01) A61K 31/4965 (2006.01) A61K 31/506 (2006.01) A61K 31/513 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/551 (2006.01) A61K 31/7052 (2006.01) A61K 31/7076 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **USE OF AN INHIBITOR OF AN ENT FAMILY TRANSPORTER IN THE TREATMENT OF CANCER AND COMBINATION THEREOF WITH AN ADENOSINE RECEPTOR ANTAGONIST**

[54] **UTILISATION D'UN INHIBITEUR D'UN TRANSPORTEUR DE LA FAMILLE DES ENT DANS LE TRAITEMENT DU CANCER ET DE LA COMBINAISON DE CEUX-CI AVEC UN ANTAGONISTE DU RECEPTEUR DE L'ADENOSINE**

[72] CROSIGNANI, STEFANO, BE
[72] HOUTHUYS, ERICA JOKE KATELIJNE HELEEN, BE
[72] DE HENAU, OLIVIER, BE
[71] ITEOS BELGIUM SA, BE
[85] 2021-03-23
[86] 2019-09-27 (PCT/EP2019/076244)
[87] (WO2020/065036)
[30] BE (2018/0115) 2018-09-27
[30] US (62/737,717) 2018-09-27

PCT Applications Entering the National Phase

<p style="text-align: center;">[21] 3,113,887 [13] A1</p> <p>[51] Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/4709 (2006.01) A61K 31/506 (2006.01) A61K 31/5365 (2006.01) A61K 31/5377 (2006.01) A61P 3/00 (2006.01) A61P 9/00 (2006.01) A61P 25/00 (2006.01) A61P 27/00 (2006.01) A61P 29/00 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01) C07D 491/107 (2006.01) C07D 491/20 (2006.01) C07D 495/04 (2006.01) C07D 498/04 (2006.01)</p> <p>[25] EN</p> <p>[54] NOVEL COMPOUNDS AS NADPH OXIDASE INHIBITORS</p> <p>[54] NOUVEAUX COMPOSES UTILISES EN TANT QU'INHIBITEURS DE LA NADPH OXYDASE</p> <p>[72] MACHIN, PETER, GB</p> <p>[72] CHAMBERS, MARK, GB</p> <p>[72] HODGES, ALASTAIR, GB</p> <p>[72] SHARPE, ANDREW, GB</p> <p>[72] WISHART, GRANT, GB</p> <p>[72] PERRY, BENJAMIN, FR</p> <p>[72] CELANIRE, SYLVAIN, FR</p> <p>[72] HEITZ, FREDDY, CH</p> <p>[71] GENKYOTEX SUISSE SA, CH</p> <p>[85] 2021-03-23</p> <p>[86] 2019-09-27 (PCT/EP2019/076273)</p> <p>[87] (WO2020/065048)</p> <p>[30] EP (18197787.7) 2018-09-28</p>	<p style="text-align: center;">[21] 3,113,890 [13] A1</p> <p>[51] Int.Cl. C03C 25/321 (2018.01) D04H 1/4218 (2012.01) C08L 3/02 (2006.01)</p> <p>[25] EN</p> <p>[54] GLASS TEXTILE COATED WITH PARTIALLY SOLUBLE DEXTRIN-CONTAINING COATING</p> <p>[54] TEXTILE EN VERRE REVETU D'UN REVETEMENT CONTENANT DE LA DEXTRINE PARTIELLEMENT SOLUBLE</p> <p>[72] MIKULECKY, BOHUSLAV, CZ</p> <p>[72] KULHAVY, LUKAS, CZ</p> <p>[72] CESKA, MATEJ, CZ</p> <p>[71] SAINT-GOBAIN ADFORS, FR</p> <p>[85] 2021-03-23</p> <p>[86] 2019-10-01 (PCT/EP2019/076517)</p> <p>[87] (WO2020/070096)</p> <p>[30] EP (18198145.7) 2018-10-02</p>	<p style="text-align: center;">[21] 3,113,893 [13] A1</p> <p>[51] Int.Cl. E01D 15/133 (2006.01) E01D 19/00 (2006.01)</p> <p>[25] EN</p> <p>[54] MODULAR LONGITUDINAL SYSTEM FOR BRIDGE DECKS FOR DOUBLE-TRACK RAILWAYS</p> <p>[54] SYSTEME MODULAIRE LONGITUDINAL AVEC TABLIERS DE PONTS POUR VOIES FERREES A DEUX VOIES ET PROCEDE DE CONSTRUCTION</p> <p>[72] FACAL ANDRADE, CARLOS, ES</p> <p>[72] CORBAL DEBEN, FERNANDO, ES</p> <p>[72] CORRES PEIRETTI, HUGO EDUARDO, ES</p> <p>[72] TORRICO LIZ, JAVIER, ES</p> <p>[71] ATESVI, S.L., ES</p> <p>[71] FHECOR INGENIEROS CONSULTORES, S.A., ES</p> <p>[85] 2021-03-23</p> <p>[86] 2018-10-03 (PCT/ES2018/070639)</p> <p>[87] (WO2020/070346)</p>
<p style="text-align: center;">[21] 3,113,888 [13] A1</p> <p>[25] EN</p> <p>[54] METHODS FOR PREPARING PLATELET RELEASATE</p> <p>[54] PROCEDES DE PREPARATION D'UN AGENT DE LIBERATION DES PLAQUETTES</p> <p>[72] FEYS, HENDRIK B., BE</p> <p>[72] VANDEKERCKHOVE, PHILIPPE, BE</p> <p>[72] COMPERNOLLE, VEERLE, BE</p> <p>[71] ONDERZOEKS- EN ONTWIKKELINGSFONDS RODE KRUIS-VLAANDEREN, BE</p> <p>[85] 2021-03-23</p> <p>[86] 2019-11-14 (PCT/EP2019/081257)</p> <p>[87] (WO2020/099530)</p> <p>[30] EP (18206107.7) 2018-11-14</p>	<p style="text-align: center;">[21] 3,113,891 [13] A1</p> <p>[51] Int.Cl. A47L 15/24 (2006.01)</p> <p>[25] EN</p> <p>[54] CLEANING DEVICE AND METHOD FOR CLEANING ARTICLES TO BE CLEANED</p> <p>[54] DISPOSITIF DE NETTOYAGE ET PROCEDE DE NETTOYAGE D'ARTICLES A NETTOYER</p> <p>[72] GAUS, BRUNO, DE</p> <p>[71] MEIKO MASCHINENBAU GMBH & CO. KG, DE</p> <p>[85] 2021-03-23</p> <p>[86] 2019-10-04 (PCT/EP2019/076865)</p> <p>[87] (WO2020/070264)</p> <p>[30] DE (10 2018 217 052.5) 2018-10-05</p>	<p style="text-align: center;">[21] 3,113,894 [13] A1</p> <p>[51] Int.Cl. H04W 12/08 (2021.01) H04W 60/00 (2009.01) H04L 29/06 (2006.01)</p> <p>[25] EN</p> <p>[54] SYSTEMS AND METHOD FOR SECURITY PROTECTION OF NAS MESSAGES</p> <p>[54] SYSTEMES ET PROCEDE DE PROTECTION DE SECURITE DE MESSAGES NAS</p> <p>[72] LIU, JENNIFER, US</p> <p>[71] NOKIA TECHNOLOGIES OY, FI</p> <p>[85] 2021-03-23</p> <p>[86] 2019-09-24 (PCT/FI2019/050685)</p> <p>[87] (WO2020/065132)</p> <p>[30] US (62/735,732) 2018-09-24</p>

Demandes PCT entrant en phase nationale

[21] **3,113,895**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/117 (2010.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **TLR9 AGONISTS FOR USE IN DOWNREGULATING CLEVER-1 EXPRESSION ON ALTERNATIVELY ACTIVATED MACROPHAGES**
[54] **AGONISTES DE TLR9 DESTINES A ETRE UTILISES DANS LA REGULATION NEGATIVE DE L'EXPRESSION DE CLEVER-1 SUR DES MACROPHAGES ACTIVES ALTERNATIVEMENT**
[72] HOLLMEN, MAIJA-LEENA, FI
[72] VIITALA, MIRO, FI
[71] FARON PHARMACEUTICALS OY, FI
[85] 2021-03-23
[86] 2019-11-01 (PCT/FI2019/050778)
[87] (WO2020/089531)
[30] FI (20185926) 2018-11-01

[21] **3,113,898**
[13] A1
[51] **Int.Cl. C09K 5/06 (2006.01)**
[25] EN
[54] **METAL NITRATE BASED COMPOSITIONS FOR USE AS PHASE CHANGE MATERIALS**
[54] **COMPOSITIONS A BASE DE NITRATE METALLIQUE DESTINEES A ETRE UTILISEES EN TANT QUE MATERIAUX A CHANGEMENT DE PHASE**
[72] BISSELL, ANDREW JOHN, GB
[72] OLIVER, DAVID, GB
[72] PULHAM, COLIN RICHARD, GB
[72] GODDARD, EMILY JANE, GB
[72] ODLING, GYLEN, GB
[72] FISHER, KATE, GB
[71] SUNAMP LIMITED, GB
[85] 2021-03-23
[86] 2019-10-08 (PCT/GB2019/052851)
[87] (WO2020/074883)
[30] GB (1816380.8) 2018-10-08

[21] **3,113,896**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **CHIMERIC ANTIGEN RECEPTOR**
[54] **RECEPTEUR ANTIGENIQUE CHIMERIQUE**
[72] PULE, MARTIN, GB
[72] CORDOBA, SHAUN, GB
[72] THOMAS, SIMON, GB
[72] ONUOHA, SHIMOB, GB
[72] CHEAN LIM, WEN, GB
[72] MA, BIAO, GB
[72] FERRARI, MATHIEU, GB
[71] AUTOLUS LIMITED, GB
[85] 2021-03-23
[86] 2019-09-26 (PCT/GB2019/052726)
[87] (WO2020/065330)
[30] GB (1815775.0) 2018-09-27
[30] GB (1902021.3) 2019-02-14

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

<p>[21] 3,112,118 [13] A1</p> <p>[51] Int.Cl. G01V 5/10 (2006.01) [25] EN [54] MULTIPLE SOURCE NEUTRON MEASUREMENT, DEVICE, SYSTEM AND USE THEREOF [54] MESURE DES NEUTRONS DE SOURCES MULTIPLES, DISPOSITIF, SYSTEME ET UTILISATION ASSOCIES</p> <p>[72] KRAMER, HERMANN, CA [71] ROKE TECHNOLOGIES LTD., CA [22] 2014-02-18 [41] 2014-08-28 [62] 2,901,490 [30] US (61/766,826) 2013-02-20 [30] US (61/766,825) 2013-02-20 [30] US (61/766,823) 2013-02-20</p>	<p>[21] 3,112,123 [13] A1</p> <p>[51] Int.Cl. C12Q 1/24 (2006.01) C12N 5/09 (2010.01) C12Q 1/6806 (2018.01) C12Q 1/00 (2006.01) C12Q 1/68 (2018.01) G01N 1/28 (2006.01) G01N 1/40 (2006.01) G01N 33/48 (2006.01) G01N 33/53 (2006.01)</p> <p>[25] EN [54] PROCESS FOR MULTI-ANALYSES OF RARE CELLS EXTRACTED OR ISOLATED FROM BIOLOGICAL SAMPLES THROUGH FILTRATION. [54] PROCEDE DE MULTI-ANALYSES DE CELLULES RARES EXTRAITES OU ISOLEES A PARTIR D'ECHANTILLONS BIOLOGIQUES PAR FILTRATION.</p> <p>[72] CAPIOD, THIERRY, FR [72] LAGET, SOPHIE, FR [72] HOFMAN, PAUL, FR [72] PATERLINI-BRECHOT, PATRIZIA, FR [71] UNIVERSITE PARIS DESCARTES, FR [71] RARECELLS, FR [71] ASSISTANCE PUBLIQUE - HOPITAUX DE PARIS, FR [71] CAPIOD, THIERRY, FR [71] LAGET, SOPHIE, FR [71] HOFMAN, PAUL, FR [71] PATERLINI-BRECHOT, PATRIZIA, FR [71] INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHER MEDICALE (INSERM), FR [22] 2013-05-23 [41] 2013-11-28 [62] 2,874,048 [30] US (61/651,437) 2012-05-24</p>	<p>[21] 3,112,126 [13] A1</p> <p>[25] EN [54] METHODS AND APPARATUS TO MONITOR MEDIA PRESENTATIONS [54] PROCEDES ET APPAREIL DE SURVEILLANCE DE PRESENTATIONS MULTIMEDIAS</p> <p>[72] RAMASWAMY, ARUN, US [72] ALLA, MADHUSUDHAN REDDY, US [71] THE NIELSEN COMPANY (US), LLC, US [22] 2014-04-16 [41] 2014-10-23 [62] 3,028,472 [30] US (61/813,019) 2013-04-17 [30] US (13/963,737) 2013-08-09</p> <hr/> <p>[21] 3,112,254 [13] A1</p> <p>[51] Int.Cl. C04B 28/14 (2006.01) B32B 13/00 (2006.01) B32B 37/15 (2006.01) C04B 24/38 (2006.01) A23L 29/212 (2016.01) C01F 11/46 (2006.01)</p> <p>[25] EN [54] PREGELATINIZED STARCH WITH MID-RANGE VISCOSITY, AND PRODUCT, SLURRY AND METHODS RELATED THERETO [54] AMIDON PREGELATINISE DE VISCOSITE MOYENNE ET PRODUIT, SUSPENSION ET PROCEDES ASSOCIES</p> <p>[72] SANG, YIJUN, US [72] LEE, CHRIS C., US [72] CHAN, CESAR, US [72] SONG, WEIXIN D., US [71] UNITED STATES GYPSUM COMPANY, US [22] 2013-10-14 [41] 2014-05-01 [62] 2,887,346 [30] US (61/717,588) 2012-10-23 [30] US (13/835,002) 2013-03-15 [30] US (14/044,582) 2013-10-02</p>

**Demandes canadiennes apparentées par division et
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,112,552**
[13] A1

[51] **Int.Cl. A41D 19/015 (2006.01) A41D 13/04 (2006.01) A41D 19/04 (2006.01)**

[25] EN

[54] **PERSONAL PROTECTIVE EQUIPMENT FOR CBRN OR OTHER PROTECTION**

[54] **EQUIPEMENT DE PROTECTION INDIVIDUELLE POUR CBRN OU AUTRE PROTECTION**

[72] DIONNE, LUC, CA

[72] VANDENBOSCH, JILL, CA

[72] MORISSETTE, JEAN-FRANCOIS, CA

[72] LEMYRE, JEAN-LUC, CA

[72] MEUNIER, ALEXANDRE, CA

[71] AIRBOSS ENGINEERED PRODUCTS INC., CA

[22] 2014-03-07

[41] 2014-09-12

[62] 2,903,591

[30] CA (2,808,848) 2013-03-07

[21] **3,112,566**
[13] A1

[25] EN

[54] **MOBILE, MODULAR, ELECTRICALLY POWERED SYSTEM FOR USE IN FRACTURING UNDERGROUND FORMATIONS**

[54] **SYSTEME ELECTRIQUE MOBILE ET MODULAIRE UTILISE POUR FRACTURER DES FORMATIONS SOUTERRAINES**

[72] COLI, TODD, CA

[72] SCHELSKE, ELDON, CA

[71] TYPHON TECHNOLOGY SOLUTIONS, LLC, US

[22] 2012-04-10

[41] 2012-10-07

[62] 2,955,706

[30] US (61/472,861) 2011-04-07

[21] **3,112,632**
[13] A1

[51] **Int.Cl. C12N 9/16 (2006.01) A61K 38/46 (2006.01) A61P 3/00 (2006.01) C12N 5/10 (2006.01) C12N 9/00 (2006.01) C12N 15/52 (2006.01) C12N 15/55 (2006.01) C12N 15/85 (2006.01) C12P 21/00 (2006.01) C12Q 1/34 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **MANUFACTURE OF ACTIVE HIGHLY PHOSPHORYLATED HUMAN LYSOSOMAL SULFATASE ENZYMES AND USES THEREOF**

[54] **FABRICATION D'ENZYMES DE SULFATASE LYSOSOMALES HUMAINES HAUTEMENT PHOSPHORYLEES ACTIVES ET LEURS UTILISATIONS**

[72] HAGUE, CHARLES, US

[72] PUNGOR, ERNO, US

[72] KOPPAKA, VISH, US

[72] VELLARD, MICHEL CLAUDE, US

[72] DVORAK-EWELL, MELITA, US

[71] BIOMARIN PHARMACEUTICAL INC., US

[22] 2009-01-16

[41] 2009-07-23

[62] 2,711,590

[30] US (61/022,179) 2008-01-18

[30] US (61/099,373) 2008-09-23

[30] US (61/110,246) 2008-10-31

[21] **3,112,639**
[13] A1

[51] **Int.Cl. A23G 9/04 (2006.01) A23G 9/08 (2006.01) A23G 9/22 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR THE PREPARATION OF COOLED EDIBLE PRODUCTS**

[54] **SYSTEME ET PROCEDE DE PREPARATION DE PRODUITS COMESTIBLES REFROIDIS**

[72] BETH HALACHMI, BARAK, IL

[71] SOLO GELATO LTD., IL

[22] 2013-02-11

[41] 2013-08-22

[62] 3,027,306

[30] US (61/598,481) 2012-02-14

[30] US (61/650,734) 2012-05-23

[30] US (61/749,652) 2013-01-07

[21] **3,112,646**
[13] A1

[25] EN

[54] **COMPOSED ELEMENT, MULTI-LAYERED BOARD AND PANEL-SHAPED ELEMENT FOR FORMING THIS COMPOSED ELEMENT**

[54] **ELEMENT COMPOSE, CONTREPLAQUE MULTIPLIS ET ELEMENT EN FORME DE PANNEAU POUR FORMER LEDIT ELEMENT COMPOSE**

[72] MAERTENS, LUC, BE

[72] CAPPELLE, MARK, BE

[72] VANHASTEL, LUC, BE

[72] DEMAN, LUC, BE

[72] VAN HOOYDONCK, GUY, BE

[71] UNILIN BVBA, BE

[22] 2009-10-29

[41] 2010-06-24

[62] 3,028,044

[30] BE (BE2008/0677) 2008-12-17

[30] US (61/175,596) 2009-05-05

[30] DE (20 2009 008 825.1) 2009-06-26

[21] **3,112,649**
[13] A1

[25] EN

[54] **ACCESS DOOR FOR POSSIBLE USE WITH A HELICOPTER FUEL TANK**

[54] **PORTE D'ACCES POUR UTILISATION POSSIBLE AVEC UN RESERVOIR DE CARBURANT D'HELICOPTERE**

[72] SANNADI, AMINE, FR

[72] PICCO, NICOLAS, FR

[71] SAFRAN AEROSYSTEMS, FR

[22] 2014-01-14

[41] 2014-07-17

[62] 2,896,717

[30] US (61/752,071) 2013-01-14

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

[21] **3,112,661**
[13] A1
[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6844 (2018.01) C07H 19/02 (2006.01) C07H 19/10 (2006.01) C07H 19/20 (2006.01) C07H 21/00 (2006.01) C12N 15/10 (2006.01) C12P 19/34 (2006.01)**
[25] EN
[54] **NUCLEOTIDE ANALOGS**
[54] **ANALOGUES NUCLEOTIDIQUE**
[72] KIM, DAE HYUN, US
[71] ABBOTT MOLECULAR INC., US
[22] 2014-08-19
[41] 2015-02-26
[62] 2,921,619
[30] US (61/867,202) 2013-08-19

[21] **3,112,664**
[13] A1
[51] **Int.Cl. E06B 5/00 (2006.01)**
[25] EN
[54] **ACCESS DOOR FOR POSSIBLE USE WITH A HELICOPTER FUEL TANK**
[54] **PORTE D'ACCES POUR UTILISATION POSSIBLE AVEC UN RESERVOIR DE CARBURANT D'HELICOPTERE**
[72] PICCO, NICOLAS, FR
[72] SANNADI, AMINE, FR
[71] SAFRAN AEROSYSTEMS, FR
[22] 2014-01-14
[41] 2014-07-17
[62] 2,896,717
[30] US (61/752,071) 2013-01-14

[21] **3,113,778**
[13] A1
[25] EN
[54] **DUCT SYSTEM INCLUDING INFORMATION MODULES CONFIGURED TO EMIT POSITIONAL INFORMATION AND METHOD OF THE SAME**
[54] **RESEAU DE CONDUITS COMPORTANT DES MODULES D'INFORMATION CONFIGURES POUR EMETTRE DE L'INFORMATION DE POSITIONNEMENT ET METHODE ASSOCIEE**
[72] GRIMSLEY, TIMOTHY A., US
[72] MCCALL, THOMAS, US
[71] DURA-LINE CORPORATION, US
[22] 2014-01-07
[41] 2014-07-08
[62] 2,977,693
[30] US (61/750,103) 2013-01-08
[30] US (14/146,874) 2014-01-03

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10353744 CANADA LTD.	2,986,822	AKTAS, HUSEYIN	2,866,175	ASANO, SATOSHI	3,076,598
10353744 CANADA LTD.	3,075,345	ALASKA AIRLINES, INC.	2,852,494	ASHTON, THOMAS JAMES	2,851,695
10353744 CANADA LTD.	3,075,351	ALASKAR, MOHAMMED	3,053,405	ASPHALT ZIPPER, INC.	3,025,562
10353744 CANADA LTD.	3,075,380	ALBINGER, ROBERT E.	2,952,114	ASSELAH, TARIK	2,826,065
2603701 ONTARIO INC.	2,816,135	ALCON INC.	2,912,530	ASSISTANCE PUBLIQUE- HOPITAUX DE PARIS	2,826,065
4III INNOVATIONS INC.	3,075,709	ALFA LAVAL CORPORATE AB	3,028,242	ASTEX THERAPEUTICS LIMITED	2,853,366
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FERNANDEZ, ADRIAN	3,014,815	GE ENERGY (UK) LIMITED	2,858,469	GRUHN, DAVID	2,909,506
FERRETTI, LUCA	2,898,423	GELARDI, PEPIN	2,816,135	GRUNDEN, PHILIPP	3,051,618
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FISHER CONTROLS INTERNATIONAL LLC	2,874,645	GENERAL ELECTRIC COMPANY	3,029,429	GUILLEN NAVARRO, MARIA JOSE	2,995,018
FISHER CONTROLS INTERNATIONAL LLC	2,895,267	GENODIVE PHARMA INC.	2,909,989	GUO, HUIHUI	2,978,857
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STEINAR HOLDING B.V.	2,912,356	TAKENOUCI, HIROSHI	3,076,598	THORLABS, INC.	2,896,241
STEINIGER-BRACH, BJORN	2,909,504	TAMMES, PIM ROELOF CLEMENT	2,912,356	THRU TUBING SOLUTIONS, INC.	3,046,487
STEINIGER-BRACH, BJORN	2,909,506	TAN, XUEWEI	3,036,911	THURGOOD, JEFFREY	3,013,213
STERNBY, JAN	2,899,720	TANG, PAUL E.	3,027,431	THYSSENKRUPP AG	3,051,618
STEVENS, MARCEL	2,925,802	TANG, YONG	2,989,209	THYSSENKRUPP STEEL EUROPE AG	3,051,618
STICHTING RADBOUD UNIVERSITAIR MEDISCH CENTRUM	2,918,408	TANGUAY, CHRISTOPHER M.	2,906,562	TIAN, HUI	2,978,046
STOCK, NICHOLAS SIMON	2,894,281	TANNERY CREEK SYSTEMS INC.	2,916,418	TIETZ, MARCO	3,051,618
STOESZ, CARL W.	2,930,416	TAPPEL, RYAN CHRISTOPHER	3,078,228	TIME WARNER CABLE ENTERPRISES LLC	3,034,726
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STRASKY, DOUGLAS G.	3,023,405	TATA CONSULTANCY SERVICES LIMITED	3,017,655	TISSELLI, PATRIZIA	2,907,751
STRATA PRODUCTS WORLDWIDE, LLC	2,952,114	TAYLOR, MATTHEW H.	3,025,562	TJASSENS, NATHALIE	2,856,583
STRATO, INC.	2,964,513	TCHISTIAKOVA, LIUDMILA	2,859,755	TOBII AB	2,970,035
STROBEL, HEIKE MARIA	3,036,301	TE BOOIJ, MERIJN	2,936,389	TOGNETTI, ALESSANDRO	2,898,423
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SUMITOMO SEIKA CHEMICALS CO., LTD.	2,916,160	TELEFLEX MEDICAL INCORPORATED	2,982,676	TONER, ADAM	2,877,350
SUMITOMO SEIKA CHEMICALS CO., LTD.	2,920,490	TELEFLEX MEDICAL INCORPORATED	3,033,276	TORAY INDUSTRIES, INC.	2,969,646
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GROTE, EDWIN MICHAEL	3,058,405	KELLER, ERICH	3,094,663	MATHEW, SANGEETA	3,057,637
GROTE, EDWIN MICHAEL	3,058,430	KEVERN, THOMAS CRAIG	3,058,297	MATHEW, SANGEETA	3,057,663
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KWS SAAT SE & CO. KGAA	3,113,873	LOEW, ANDREAS	3,113,826	MCLAUGHLIN,	
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