Canadian Intellectual Property Office
An Agency of Industry Canada

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

ISSN-1712-4034

The Patent Office Record

La Gazette du Bureau des brevets

Vol. 152 No. 25 June 18, 2024

Vol. 152 No. 25 le 18 juin 2024

Canada

CIPO OPIC

THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

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

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

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Notices

1. Dates and Code Numerals Appearing in Patent Headings

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

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

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

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

[41] - Open to Public Inspection Date
[45] - Date of Issue
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[51] - International Classification
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[54] - Title of Invention
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[64] - Related by Reissue
[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
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[86] - PCT International Filing Data
[87] - PCT International Publication data

Avis

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

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

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

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

[11] - Numéro du brevet
[13] - Désignation du type de document
[21] - Numéro attribué à la demande
[22] - Date du dépôt de la demande ou
[22] - Date du dépôt de la demande divisionnaire apparentée
[25] - Langue dans laquelle la demande publiée a été initialement déposée
[30] - Données relatives à la priorité selon la Convention de Paris
[41] - Date de mise à la disponibilité du public
[45] - Date de délivrance
[48] - Date de correction (Redélivrance, Réexamen)
[51] - Classification internationale
[52] - Classification nationale
[54] - Titre de l'invention
[60] - Apparenté par divulgation supplémentaire
[62] - Apparenté par division
[64] - Apparenté par redélivrance
[71] - Nom(s) du (des) demandeur(s)
[72] - Nom(s) de(s) l'inventeur(s)
[73] - Nom(s) du (des) titulaire(s)
[85] - Date d'entrée en phase nationale
[86] - Données du dépôt international selon le PCT
[87] - Données de publication internationale selon le PCT

2. Country Code

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

2. Code des pays

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

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

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

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

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

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

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

4. Orders for Patents by Class or Sub-Class

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

4. Commande de brevets par classe ou sous-classe

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

5. Advice on Making a Patent Application

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

5. Conseils relatifs à la préparation de demandes de brevets

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

6. Licensing of Patents

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

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

6. Octroi de licences en vertu des brevets

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

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

7. Patents Available for Licence or Sale

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

7. Brevets disponibles pour licence ou vente

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

8. List of Patents Available for Licence or Sale

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

None

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

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

Aucun

9. Applications Open to Public Inspection

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

9. Demandes mises à la disponibilité du public

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

10. Language of Published Documents

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

10. Langue du document publié

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

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

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

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

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

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

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

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

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

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

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

Preliminary Examination

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

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

* International fees will be reduced by:

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

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

4. Taxe pour paiement tardif
50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

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

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

* Les frais seront réduits de:

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

12. PCT Notices

Patent Cooperation Treaty (PCT)

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

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

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

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

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

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

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

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

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

13. Practice Notice

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

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

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

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

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

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

13. Énoncé de pratique

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

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

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

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

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

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

Offices.

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

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

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

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

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

14. Correspondence Procedures

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

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

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

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

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

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14. Procédures de correspondance

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

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

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

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

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

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

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

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

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

1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the Fee Payment Form.

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

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

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

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

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

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

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

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

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

1.1 Établissements désignés

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

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

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

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

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

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

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

except statutory holiday

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

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

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

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

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2. Electronic Correspondence

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

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

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

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

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

2. Correspondance électronique

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

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

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

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

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

open for business.

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

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

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

2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

Patents

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

Brevets

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

2.2 Online

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

2.2 En ligne

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

Patents

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

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

Brevets

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

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

Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

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

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

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

Trademarks

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

Marques de commerce

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

accessing the following pages:

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

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

Opposition proceedings before the Trademarks Opposition Board

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

Section 45 proceedings before the Trademarks Opposition Board

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

:

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

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

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

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

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

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

Copyright

Droits d'auteur

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

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

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

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

Industrial Designs

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

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

Dessins industriels

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

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

Integrated Circuit Topographies

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

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

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

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

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

2.3 Supports électroniques

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

Brevets

Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Electronic Media accepted by the Patent Office

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

Trademarks and Industrial Design

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

Supports électroniques acceptés par le Bureau des brevets

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

Marques de commerce et dessins industriels

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

3. Details Concerning the Electronic Formats Accepted

Patents

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

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

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

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

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

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

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 ½" by 11" or A4.

PDF Format:

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

ASCII

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

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

Format TIFF

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

Format PDF

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

ASCII

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

Trademarks

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

Industrial Design

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

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

Marques de commerce

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

Dessins industriels

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

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

4. General Information

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

4. Renseignements généraux

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

5. Time Period Extensions

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

5. Prorogation des délais

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;

ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;

iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or

iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

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

Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;

ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;

iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou

iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

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

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

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

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

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

Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

Trademarks

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

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

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

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

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

Marques de commerce

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

8. Intellectual property acts, rules and regulations

- Copyright Act
- Copyright Regulations
- Industrial Design Act
- Industrial Design Regulations
- Integrated Circuit Topography Act
- Integrated Circuit Topography Regulations
- Interpretation Act
- Patent Act

8. Lois, règles et règlements sur la propriété intellectuelle

- Loi sur le droit d'auteur
- Règlement sur le droit d'auteur
- Loi sur les dessins industriels
- Règlement sur les dessins industriels
- Loi sur les topographies de circuits intégrés
- Règlement sur les topographies de circuits intégrés
- Loi d'interprétation
- Loi sur les brevets
- Règles sur les brevets

- Patent Rules
- Regulations under the PCT
- Trademarks Act
- Trademarks Regulations

- Règlement d'exécution du PCT
- Loi sur les marques de commerce
- Règlement sur les marques de commerce

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of June 18, 2024 contains applications open to public inspection from June 2, 2024 to June 8, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 18 juin 2024 contient les demandes disponibles au public pour consultation pour la période du 2 juin 2024 au 8 juin 2024.

Canadian Patents Issued

June 18, 2024

Brevets canadiens délivrés

18 juin 2024

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[11] **2,862,406**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/27 (2006.01) A61K 31/4174 (2006.01) A61K 31/496 (2006.01) A61K 31/573 (2006.01) A61K 31/7048 (2006.01) A61K 47/00 (2006.01) A61P 27/16 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **OTIC FORMULATIONS, METHODS AND DEVICES**
[54] **FORMULATIONS, PROCEDES ET DISPOSITIFS OTIQUES**
[72] BRANCH, MATTHEW, US
[72] OGLESBEE, VANCE, US
[73] ENTRX LLC, US
[85] 2014-06-27
[86] 2013-01-03 (PCT/US2013/020152)
[87] (WO2013/106230)
[30] US (61/585,031) 2012-01-10
[30] US (61/625,407) 2012-04-17
[30] US (61/649,663) 2012-05-21

---

[11] **2,873,811**
[13] C
[51] **Int.Cl. G06T 19/20 (2011.01) G06T 11/00 (2006.01) G06T 15/00 (2011.01)**
[25] EN
[54] **AN ARRANGEMENT FOR PHYSICALLY MOVING TWO DIMENSIONAL, THREE DIMENSIONAL AND/OR STEREOSCOPIC THREE DIMENSIONAL VIRTUAL OBJECTS**
[54] **UN ARRANGEMENT DE DEPLACEMENT PHYSIQUE D'OBJETS VIRTUELS EN DEUX DIMENSIONS, EN TROIS DIMENSIONS OU EN TROIS DIMENSIONS STEREOSCOPIQUES**
[72] KIMENKOWSKI, GERHARD, AU
[73] JUMBO VISION INTERNATIONAL PTY LTD, AU
[85] 2014-11-17
[86] 2013-05-16 (PCT/AU2013/000505)
[87] (WO2013/170302)
[30] AU (2012902045) 2012-05-18

---

[11] **2,884,859**
[13] C
[51] **Int.Cl. C07K 14/155 (2006.01) A61K 39/12 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **HIV-1 ANTIBODY EVOLUTION IMMUNOGENS**
[54] **IMMUNOGENES INDUCTEURS D'ANTICORPS DU VIH-1**
[72] HAYNES, BARTON F., US
[72] LIAO, HUA-XIN, US
[72] LYNCH, REBECCA M., US
[72] ZHOU, TONGQING, US
[72] GAO, FENG, US
[72] BOYD, SCOTT, US
[72] SHAW, GEORGE M., US
[72] HAHN, BEATRICE H., US
[72] KEPLER, THOMAS B., US
[72] KORBER, BETTE T., US
[72] KWONG, PETER, US
[72] MASCOLA, JOHN, US
[73] DUKE UNIVERSITY, US
[73] LOS ALAMOS NATIONAL SECURITY, LLC, US
[73] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[73] TRUSTEES OF BOSTON UNIVERSITY, US
[73] THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2015-03-12
[86] 2013-09-12 (PCT/US2013/000210)
[87] (WO2014/042669)
[30] US (61/700,252) 2012-09-12
[30] US (61/708,466) 2012-10-01
[30] US (61/764,421) 2013-02-13

---

[11] **2,904,642**
[13] C
[51] **Int.Cl. A61B 3/16 (2006.01)**
[25] EN
[54] **INTRAOCULAR PHYSIOLOGICAL SENSOR**
[54] **CAPTEUR PHYSIOLOGIQUE INTRA-OCULAIRE**
[72] HAFFNER, DAVID S., US
[72] HAQUE, RAZI-UL M., US
[72] WISE, KENSALL D., US
[73] GLAUKOS CORPORATION, US
[85] 2015-09-08
[86] 2014-03-10 (PCT/US2014/022851)
[87] (WO2014/164569)
[30] US (13/802,313) 2013-03-13

---

[11] **2,921,522**
[13] C
[51] **Int.Cl. F21V 29/70 (2015.01) F21V 29/74 (2015.01) F21V 29/76 (2015.01) F21V 29/77 (2015.01) F21K 9/00 (2016.01) F21S 8/02 (2006.01) F21V 21/04 (2006.01) F21V 23/00 (2015.01)**
[25] EN
[54] **SLIM RECESSED LIGHT FIXTURE**
[54] **APPAREIL D'ECLAIRAGE ENCASTRE MINCE**
[72] GHASABI, AMIR, CA
[73] LUMINIZ INC., CA
[86] (2921522)
[87] (2921522)
[22] 2016-02-22
[30] US (62/120180) 2015-02-24
[30] CA (2886730) 2015-03-31

[11] **2,930,041**
[13] C
[51] **Int.Cl. G06F 21/62 (2013.01) G06F 7/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR ANONYMIZING AND AGGREGATING PROTECTED INFORMATION**
[54] **SYSTEME D'ANONYMISATION ET D'AGREGATION D'INFORMATION PROTEGEE**
[72] LYNCH, CECIL O'DELL, US
[72] CARROLL, DENNIS JAMES, US
[72] TRUSCOTT, ANDREW JOHN, US
[72] ACUNA, GERMAN, US
[73] ACCENTURE GLOBAL SERVICES LIMITED, IE
[86] (2930041)
[87] (2930041)
[22] 2016-05-16
[30] US (14/716,154) 2015-05-19

[11] **2,930,319**
[13] C
[51] **Int.Cl. H04L 51/10 (2022.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SOCIAL MEDIA PLATFORM**
[54] **PLATEFORME DE MEDIA SOCIAL**
[72] CHAKRADHAR, ANURAG, AU
[73] BLRT PTY LTD, AU
[85] 2016-05-11
[86] 2014-11-12 (PCT/AU2014/050347)
[87] (WO2015/070286)
[30] AU (2013904364) 2013-11-12
[30] AU (2014901882) 2014-05-21

[11] **2,932,203**
[13] C
[51] **Int.Cl. C12P 7/20 (2006.01)**
[25] EN
[54] **RECOMBINANT STRAIN OF SACCHAROMYCES CEREVISIAE OVERPRODUCING GLYCEROL**
[54] **SOUCHE RECOMBINANTE DE SACCHAROMYCES CEREVISIAE SURPRODUCTRICES DE GLYCERINE**
[72] SIBIRNY, ANDRIY, UA
[72] DMYTRUK, KOSTYANTYN V., UA
[72] ABBAS, CHARLES, US
[72] MURASHCHENKO, LIDIIA R., UA
[73] ARCHER DANIELS MIDLAND COMPANY, US
[85] 2016-05-30
[86] 2014-12-05 (PCT/US2014/068699)
[87] (WO2015/088892)
[30] US (61/915,252) 2013-12-12

[11] **2,934,430**
[13] C
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **MASS LABELS AND METHODS OF USE THEREOF FOR LABELLING ANALYTES**
[54] **ETIQUETTES DE MASSE ET METHODES D'UTILISATION POUR ETIQUETER LES ANALYTES**
[72] THOMPSON, ANDREW HUGIN, GB
[72] KUHN, KARSTEN, DE
[72] BOEHM, GITTE, DE
[73] ELECTROPHORETICS LIMITED, GB
[85] 2016-06-17
[86] 2014-12-18 (PCT/EP2014/078602)
[87] (WO2015/091876)
[30] GB (1322567.7) 2013-12-19

[11] **2,934,677**
[13] C
[51] **Int.Cl. C04B 28/14 (2006.01) B32B 13/00 (2006.01) C04B 11/00 (2006.01) C04B 24/38 (2006.01)**
[25] EN
[54] **GYPSUM BOARD WITH IMPROVED STARCH BINDER**
[54] **PANNEAU EN GYPSE COMPORTANT UN LIANT A BASE D'AMIDON AMELIORE**
[72] STAV, ELI, US
[72] MIATUDILA, MA-IKAY, US
[72] WIGGINS, SUSAN, US
[73] GOLD BOND BUILDING PRODUCTS, LLC, US
[85] 2016-06-20
[86] 2014-12-18 (PCT/US2014/071285)
[87] (WO2015/095600)
[30] US (61/919,450) 2013-12-20

[11] **2,937,707**
[13] C
[51] **Int.Cl. G01N 35/02 (2006.01) G01N 35/04 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **AUTOMATED SAMPLE PROCESSING INSRUMENTS, SYSTEMS, PROCESSES, AND METHODS**
[54] **INSTRUMENTS DE TRAITEMENT D'ECHANTILLON AUTOMATISE, SYSTEMES, PROCEDES ET METHODES**
[72] SILBERT, ROLF, US
[73] GEN-PROBE INCORPORATED, US
[86] (2937707)
[87] (2937707)
[22] 2016-07-29
[30] US (62/199,690) 2015-07-31

[11] **2,941,081**
[13] C
[51] **Int.Cl. G01N 33/52 (2006.01)**
[25] EN
[54] **METHODS FOR CANNABINOID QUANTIFICATION**
[54] **PROCEDES DE QUANTIFICATION DE CANNABINOIDE**
[72] LUCAS, PHILIPPE, CA
[72] EADES, CALEB, CA
[73] COMPASSIONATE ANALYTICS INC., CA
[85] 2016-08-29
[86] 2014-02-28 (PCT/CA2014/000157)
[87] (WO2014/131114)
[30] US (61/771,263) 2013-03-01
[30] US (61/827,128) 2013-05-24
[30] US (61/884,409) 2013-09-30

[11] **2,948,021**
[13] C
[51] **Int.Cl. A61K 31/675 (2006.01) A61K 9/24 (2006.01) A61K 9/28 (2006.01) A61K 31/513 (2006.01) A61K 31/537 (2006.01) A61P 31/18 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATIONS OF (2R,5S,13 AR)-8HYDROXY-7,9-DIOXO-N-(2,4,6-TRIFLUOROBENZY1)-2,3,4,5,7,9,13,13A-OCTAHYDRO-2,5-METHANOPYRIDO[1'2':4,5]PYRAZINO [2,1-B][1,3] OXAZEPINE-10-CARBOXAMIDE**
[54] **FORMULATIONS PHARMACEUTIQUES DE (2R,5S,13AR)-8HYDROXY-7,9-DIOXO-N-(2,4,6-TRIFLUOROBENZYLE)-2,3,4,5,7,9,13,13A-OCTAHYDRO-2,5-METHANOPYRIDO[1'2':4,5]PYRAZINO[2,1-B][1,3]OXAZEPINE-10-CARBOXAMIDEMIDE**
[72] COLLMAN, BENJAMIN MICAH, US
[72] HONG, LEI, US
[72] KOZIARA, JOANNA M., US
[73] GILEAD SCIENCES, INC., US
[86] (2948021)
[87] (2948021)
[22] 2016-11-08
[30] US (62/399,999) 2016-09-26
[30] US (62/253,042) 2015-11-09

---

[11] **2,954,128**
[13] C
[51] **Int.Cl. G06F 16/40 (2019.01) H04N 21/433 (2011.01) H04N 21/472 (2011.01) G10L 17/22 (2013.01) G06F 16/43 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IDENTIFYING AND STORING A PORTION OF A MEDIA ASSET**
[54] **SYSTEMES ET PROCEDES PERMETTANT D'IDENTIFIER ET DE STOCKER UNE PARTIE D'UN CONTENU MULTIMEDIA**
[72] MALTAR, PAUL, US
[72] PATEL, MILAN, US
[72] GONG, YONG, US
[73] ROVI GUIDES, INC., US
[85] 2016-12-30
[86] 2016-03-28 (PCT/US2016/024485)
[87] (WO2016/160683)
[30] US (14/673,493) 2015-03-30

---

[11] **2,954,919**
[13] C
[51] **Int.Cl. F25D 25/00 (2006.01) A47G 29/00 (2006.01) A47J 47/00 (2006.01)**
[25] EN
[54] **REFRIGERATOR ICE BIN**
[54] **BAC A GLACE DE REFRIGERATEUR**
[72] THAYYULLATHIL, JEMSHEER, US
[72] LUCIC, EDWARD THOMAS, III, US
[72] BROWN, KEVIN, US
[73] VIKING RANGE, LLC, US
[86] (2954919)
[87] (2954919)
[22] 2017-01-16
[30] US (62/278,792) 2016-01-14
[30] US (15/405,671) 2017-01-13

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[11] **2,954,923**
[13] C
[51] **Int.Cl. F25D 23/00 (2006.01) E05D 11/00 (2006.01)**
[25] EN
[54] **REFRIGERATOR HINGE BRACKET MECHANISM**
[54] **MECANISME DE SUPPORT DE CHARNIERE DE REFRIGERATEUR**
[72] THAYYULLATHIL, JEMSHEER, US
[72] HENSEL, DAVID, US
[72] CARBONE, PHILIP, US
[73] VIKING RANGE, LLC, US
[86] (2954923)
[87] (2954923)
[22] 2017-01-16
[30] US (62/278,792) 2016-01-14
[30] US (15/405,682) 2017-01-13

---

[11] **2,955,741**
[13] C
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 11/00 (2021.01) A01H 6/54 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A23D 9/00 (2006.01) A23J 1/14 (2006.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01)**
[25] EN
[54] **SOYBEAN VARIETY SM14299337**
[54] **VARIETE DE SOJA SM14299337**
[72] ROJAS, EVELYN VALERA, CA
[72] GREASON, KARI, CA
[73] AGRIGENETICS, INC., US
[86] (2955741)
[87] (2955741)
[22] 2017-01-23
[30] US (62/428,819) 2016-12-01

---

[11] **2,956,235**
[13] C
[51] **Int.Cl. A23J 1/14 (2006.01) A23L 33/185 (2016.01) A23J 3/14 (2006.01) A23J 3/16 (2006.01) A23L 2/66 (2006.01)**
[25] EN
[54] **PREPARATION OF PULSE PROTEIN PRODUCTS ("YP810")**
[54] **PREPARATION DE PRODUITS DE PROTEINES DE LEGUMINEUSES ("YP810")**
[72] SEGALL, KEVIN I., CA
[72] GREEN, BRENT E., CA
[72] SCHWEIZER, MARTIN, CA
[73] BURCON NUTRASCIENCE (MB) CORP., CA
[85] 2017-01-25
[86] 2015-07-28 (PCT/CA2015/050712)
[87] (WO2016/015151)
[30] US (62/029,686) 2014-07-28

---

[11] **2,956,354**
[13] C
[51] **Int.Cl. B66F 11/04 (2006.01) B66F 3/30 (2006.01) E01D 18/00 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **GANGWAY HAVING HYDRAULIC POSITION LOCKING ASSEMBLY**
[54] **PASSAGE COMPORTANT UN MECANISME HYDRAULIQUE DE BLOCAGE DE POSITION**
[72] REICHERT, JEFF W., US
[72] SCOTT, JEFFREY DAVID, US
[73] SAFE RACK, LLC, US
[86] (2956354)
[87] (2956354)
[22] 2017-01-26
[30] US (62/287,187) 2016-01-26

---

[11] **2,958,567**
[13] C
[51] **Int.Cl. C04B 32/00 (2006.01) B28B 1/08 (2006.01) B28B 1/14 (2006.01)**
[25] EN
[54] **PROCESSED SLABS, AND SYSTEMS AND METHODS RELATED THERETO**
[54] **DALLES TRAITES, ET SYSTEMES ET PROCEDES CONNEXES**
[72] GRZESKOWIAK, JON LOUIS, II, US
[72] DAVIS, MARTIN E., US
[73] CAMBRIA COMPANY LLC, US
[85] 2017-02-17
[86] 2015-08-18 (PCT/US2015/045693)
[87] (WO2016/028780)
[30] US (14/463,494) 2014-08-19

[11] **2,966,652**
[13] C
[51] **Int.Cl. B28D 1/04 (2006.01) B28D 7/04 (2006.01)**
[25] EN
[54] **JOINT SAWING SYSTEM FOR CONCRETE BARRIERS**
[54] **SYSTEME DE SCIAGE DE JOINT DESTINE AUX BARRIERES DE BETON**
[72] BESSETTE, ROBERT, CA
[72] BOUCHER, YAN, CA
[73] GROUPE CRH CANADA INC., CA
[86] (2966652)
[87] (2966652)
[22] 2017-05-11

[11] **2,967,592**
[13] C
[51] **Int.Cl. H04W 36/20 (2009.01) H04W 36/18 (2009.01)**
[25] EN
[54] **SOFT HANDOVER METHOD USING GATEWAY SITES DIVERSITY AND IMPLEMENTED IN A SPACE TELECOMMUNICATION SYSTEM**
[54] **METHODE DE TRANSFERT FACILE EMPLOYANT LA DIVERSITE DES SITES DE PASSERELLE ET MISE EN OEUVRE DANS UN SYSTEME DE TELECOMMUNICATION SPATIAL**
[72] BAUDOIN, CEDRIC, FR
[72] CORBEL, ERWAN, FR
[72] TAYRAC, PIERRE, FR
[73] THALES, FR
[86] (2967592)
[87] (2967592)
[22] 2017-05-17
[30] FR (1600809) 2016-05-20

[11] **2,968,574**
[13] C
[51] **Int.Cl. E21B 4/00 (2006.01) E21B 44/00 (2006.01)**
[25] EN
[54] **MOTOR POWER SECTION WITH INTEGRATED SENSORS**
[54] **SECTION D'ALIMENTATION MOTEUR DOTEE DE CAPTEURS INTEGRES**
[72] KEISER, WILLIAM DANIEL, US
[73] SCIENTIFIC DRILLING INTERNATIONAL, INC., US
[86] (2968574)
[87] (2968574)
[22] 2017-05-26
[30] US (62/342,842) 2016-05-27
[30] US (15/605,429) 2017-05-25

[11] **2,968,874**
[13] C
[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4192 (2006.01) A61K 31/4196 (2006.01) A61K 31/4425 (2006.01) A61K 31/501 (2006.01) A61P 43/00 (2006.01) C07D 405/12 (2006.01)**
[25] EN
[54] **SMALL MOLECULE INHIBITORS OF FIBROSIS**
[54] **INHIBITEURS DE FIBROSE A PETITES MOLECULES**
[72] LAIRSON, LUKE, US
[72] CHATTERJEE, ARNAB K., US
[72] BOLLONG, MICHAEL, US
[72] YANG, BAIYUAN, US
[72] SCHULTZ, PETER G., US
[73] THE SCRIPPS RESEARCH INSTITUTE, US
[85] 2017-05-24
[86] 2015-12-09 (PCT/US2015/064814)
[87] (WO2016/094570)
[30] US (62/090,267) 2014-12-10
[30] US (62/117,846) 2015-02-18

[11] **2,970,040**
[13] C
[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/24 (2019.01) G06F 16/25 (2019.01)**
[25] EN
[54] **BUILDING REPORTS**
[54] **RAPPORTS DE CONSTRUCTION**
[72] RADIVOJEVIC, DUSAN, US
[72] MOSS, PETER, US
[73] AB INITIO TECHNOLOGY LLC, US
[85] 2017-06-06
[86] 2015-12-17 (PCT/US2015/066335)
[87] (WO2016/100641)
[30] US (62/093,666) 2014-12-18
[30] US (14/717,633) 2015-05-20

[11] **2,971,419**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 9/14 (2006.01)**
[25] EN
[54] **NANOPARTICLE COMPOSITIONS AND METHODS FOR IMMUNOTHERAPY**
[54] **COMPOSITIONS DE NANOPARTICULES ET METHODES POUR L'IMMUNOTHERAPIE**
[72] MCCREEDY, BRUCE, US
[73] NEXIMMUNE, INC, US
[85] 2017-06-16
[86] 2015-12-24 (PCT/US2015/000340)
[87] (WO2016/105542)
[30] US (62/096,725) 2014-12-24

[11] **2,975,140**
[13] C
[51] **Int.Cl. B01J 23/16 (2006.01) B01J 23/22 (2006.01) B01J 23/28 (2006.01) B01J 37/08 (2006.01)**
[25] EN
[54] **AGGLOMERATED ODH CATALYST**
[54] **CATALYSEUR DE DESHYDROGENATION OXYDANTE AGLOMERE**
[72] GAO, XIAOLIANG, CA
[72] BARNES, MARIE ANNETTE, CA
[72] KIM, YOONHEE, CA
[72] SIMANZHENKOV, VASILY, CA
[72] SULLIVAN, DAVID, CA
[72] ANSEEUW, RENEE LAUREL, CA
[72] STYLES, YIPEI, CA
[73] NOVA CHEMICALS CORPORATION, CA
[86] (2975140)
[87] (2975140)
[22] 2017-08-03

[11] **2,975,850**
[13] C
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 48/00 (2006.01) A61P 27/02 (2006.01) C12N 9/18 (2006.01) C12N 15/12 (2006.01) C12N 15/53 (2006.01) C12N 15/54 (2006.01) C12N 15/55 (2006.01) C12N 15/85 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **OPTIMIZED RPE65 PROMOTER AND CODING SEQUENCES**
[54] **PROMOTEUR RPE65 ET SEQUENCES DE CODAGE OPTIMISES**
[72] SMITH, ALEXANDER, GB
[72] ALI, ROBIN, GB
[73] UCL BUSINESS LTD, GB
[85] 2017-08-03
[86] 2016-02-08 (PCT/GB2016/050289)
[87] (WO2016/128722)
[30] GB (1502137.1) 2015-02-09

[11] **2,977,959**
[13] C
[51] **Int.Cl. H04N 21/45 (2011.01) H04N 21/258 (2011.01) H04L 12/16 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR RECOMMENDING MEDIA CONTENT**
[54] **PROCEDES ET SYSTEMES DE RECOMMANDATION DE CONTENU MULTIMEDIA**
[72] STATHACOPOULOS, PAUL, US
[72] MAUGHAN, BENJAMIN, US
[73] ROVI GUIDES, INC., US
[85] 2017-08-25
[86] 2016-02-25 (PCT/US2016/019536)
[87] (WO2016/138252)
[30] US (14/634,640) 2015-02-27

[11] **2,978,476**
[13] C
[51] **Int.Cl. G01N 1/40 (2006.01) C12Q 1/61 (2006.01) G01N 33/48 (2006.01) G01N 33/92 (2006.01)**
[25] EN
[54] **PREPARATION OF LIPEMIC PLASMA OR SERUM SAMPLES FOR THE DETERMINATION OF A LIPID INTERFERENCE**
[54] **PREPARATION DE PLASMA LIPEMIQUE OU D'ECHANTILLONS DE SERUM EN VUE DE LA DETERMINATION DE L'INTERFERENCE D'UN LIPIDE**
[72] PATZKE, JUERGEN, DE
[73] SIEMENS HEALTHCARE DIAGNOSTICS PRODUCTS GMBH, DE
[86] (2978476)
[87] (2978476)
[22] 2017-09-06
[30] EP (16187839.2) 2016-09-08

[11] **2,979,646**
[13] C
[51] **Int.Cl. E04B 2/74 (2006.01) E04B 2/82 (2006.01) E06B 3/44 (2006.01) E06B 3/48 (2006.01)**
[25] EN
[54] **VERTICAL FOLDING WALL PARTITION AND METHOD OF DEPLOYING SAME**
[54] **DIVISION MURALE PLIABLE VERTICALE ET METHODE DE DEPLOIEMENT ASSOCIEE**
[72] MCDONALD, MARK, CA
[73] SKYFOLD INC., CA
[86] (2979646)
[87] (2979646)
[22] 2017-09-18
[30] US (62/397,481) 2016-09-21

[11] **2,980,162**
[13] C
[51] **Int.Cl. A61K 31/10 (2006.01) A61K 31/445 (2006.01) A61K 31/473 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS TO INHIBIT SYMPTOMS ASSOCIATED WITH VEISALGIA**
[54] **PROCEDES ET COMPOSITIONS POUR INHIBER LES SYMPTOMES ASSOCIES A LA VEISALGIE**
[72] IVERSEN, JACQUELINE M., US
[72] IVERSEN, JAMES M., US
[73] IVERSEN, JACQUELINE M., US
[73] IVERSEN, JAMES M., US
[85] 2017-09-18
[86] 2016-03-18 (PCT/US2016/023200)
[87] (WO2016/154028)
[30] US (62/138,665) 2015-03-26

[11] **2,980,285**
[13] C
[51] **Int.Cl. F02K 7/04 (2006.01) F02C 5/10 (2006.01) F23R 7/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ANTI-PHASE OPERATION OF PULSE COMBUSTORS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE CHAMBRES DE COMBUSTION A PULSATION EN OPPOSITION DE PHASE**
[72] MAQBOOL, DAANISH, US
[73] UNIVERSITY OF MARYLAND, COLLEGE PARK, US
[85] 2017-09-19
[86] 2016-03-18 (PCT/US2016/023241)
[87] (WO2016/200460)
[30] US (62/135,310) 2015-03-19

[11] **2,981,586**
[13] C
[51] **Int.Cl. G06Q 20/40 (2012.01) G06Q 20/06 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **DIGITAL ASSET INTERMEDIARY ELECTRONIC SETTLEMENT PLATFORM**
[54] **PLATEFORME DE REGLEMENT ELECTRONIQUE INTERMEDIAIRE D'UN BIEN NUMERIQUE**
[72] WILSON, DONALD R., JR., US
[72] HIRANI, SUNIL, US
[72] SARANIECKI, W. ERIC, US
[72] ROOZ, YUVAL, US
[72] KFIR, SHAUL, US
[73] DIGITAL ASSET (SWITZERLAND) GMBH, CH
[85] 2017-10-02
[86] 2016-04-04 (PCT/US2016/025888)
[87] (WO2016/164310)
[30] US (62/178,315) 2015-04-05

[11] **2,982,745**
[13] C
[51] **Int.Cl. E21B 10/25 (2006.01) E21B 10/16 (2006.01) E21B 10/22 (2006.01)**
[25] EN
[54] **ROLLER CONE BIT HAVING GLAND FOR FULL SEAL CAPTURE**
[54] **TREPAN A MOLETTES COMPORTANT UN PRESSE-GARNITURE DESTINE A SAISIR PLEINEMENT LE JOINT**
[72] HOWARD, JOHNATHAN WALTER, US
[72] STROEVER, MATTHEW CHARLES, US
[72] CHIU, CHENGWEI, US
[73] VAREL INTERNATIONAL IND., L.P., US
[86] (2982745)
[87] (2982745)
[22] 2017-10-17
[30] US (62/419,511) 2016-11-09

[11] **2,982,790**
[13] C
[51] **Int.Cl. B65F 3/00 (2006.01) B65F 3/04 (2006.01)**
[25] EN
[54] **REFUSE COLLECTION SYSTEM**
[54] **SYSTEME DE COLLECTE DE DECHETS**
[72] RIMSA, JAMES, US
[73] PERKINS MANUFACTURING CO., US
[86] (2982790)
[87] (2982790)
[22] 2017-10-18
[30] US (62/437,379) 2016-12-21
[30] US (15/784,717) 2017-10-16

[11] **2,983,623**
[13] C
[51] **Int.Cl. C12N 15/10 (2006.01) G01N 1/40 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR EXTRACTION OF NUCLEIC ACIDS**
[54] **PROCEDE ET DISPOSITIF D'EXTRACTION D'ACIDES NUCLEIQUES**
[72] HILLEBRAND, TIMO, DE
[72] STROH, THORSTEN, DE
[73] IST INNUSCREEN GMBH, DE
[85] 2017-10-23
[86] 2016-02-26 (PCT/EP2016/054179)
[87] (WO2016/169678)
[30] DE (10 2015 207 481.1) 2015-04-23
[30] DE (10 2015 211 393.0) 2015-06-19
[30] DE (10 2015 211 394.0) 2015-06-19

[11] **2,984,140**
[13] C
[51] **Int.Cl. C08L 33/26 (2006.01) C08L 5/00 (2006.01) C09K 8/68 (2006.01) E21B 43/267 (2006.01) C09K 8/80 (2006.01)**
[25] EN
[54] **ENHANCED PROPPANT TRANSPORT FOR HYDRAULIC FRACTURING**
[54] **TRANSPORT AMELIORE D'AGENT DE SOUTENEMENT POUR LA FRACTURATION HYDRAULIQUE**
[72] RAHY, ABDELAZIZ, US
[72] KNOX, DEWITT, US
[72] MELBOUCI, MOHAND, US
[72] ALAMEDDIN, CHRISTOPHER, US
[72] SIEGEL, JOEL F., US
[72] POPPEL, BENJAMIN J., US
[72] WEIJERS, LEENDERT, US
[72] GUSEK, RONALD, US
[73] UNIVAR USA, INC., US
[85] 2017-10-26
[86] 2016-06-13 (PCT/US2016/037270)
[87] (WO2016/201445)
[30] US (62/174,883) 2015-06-12

[11] **2,984,629**
[13] C
[51] **Int.Cl. A61K 48/00 (2006.01) C12N 9/00 (2006.01) C12N 15/52 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **MODIFIED UBE3A GENE FOR A GENE THERAPY APPROACH FOR ANGELMAN SYNDROME**
[54] **GENE UBE3A MODIFIE POUR UNE APPROCHE DE THERAPIE GENIQUE DU SYNDROME D'ANGELMAN**
[72] NASH, KEVIN RON, US
[72] WEEBER, EDWIN JOHN, US
[72] DAILY, JENNIFER LEIGH, US
[73] UNIVERSITY OF SOUTH FLORIDA, US
[85] 2017-10-31
[86] 2016-05-09 (PCT/US2016/031468)
[87] (WO2016/179584)
[30] US (62/158,269) 2015-05-07

[11] **2,984,705**
[13] C
[51] **Int.Cl. C23F 11/12 (2006.01) C09K 8/54 (2006.01) C10G 75/02 (2006.01) C23F 11/14 (2006.01) E21B 41/02 (2006.01)**
[25] EN
[54] **CORROSION INHIBITOR FORMULATIONS**
[54] **FORMULATIONS D'INHIBITION DE LA CORROSION**
[72] HATCHMAN, KEVAN, GB
[73] ENERGY SOLUTIONS (US) LLC, US
[85] 2017-11-01
[86] 2016-05-12 (PCT/EP2016/060645)
[87] (WO2016/180916)
[30] US (62/160,837) 2015-05-13

[11] **2,985,621**
[13] C
[51] **Int.Cl. H04W 72/50 (2023.01) H04W 28/088 (2023.01)**
[25] EN
[54] **UPLINK DATA SPLITTING**
[54] **DIVISION DE DONNEES DE LIAISON MONTANTE**
[72] CAI, ZHIJUN, US
[73] BLACKBERRY LIMITED, CA
[85] 2017-11-09
[86] 2016-05-10 (PCT/US2016/031642)
[87] (WO2016/183078)
[30] US (14/712,480) 2015-05-14

[11] **2,986,661**
[13] C
[51] **Int.Cl. F01D 25/14 (2006.01) F01D 25/28 (2006.01)**
[25] FR
[54] **TURBINE RING ASSEMBLY**
[54] **ENSEMBLE D'ANNEAU DE TURBINE**
[72] ROUSSILLE, CLEMENT, FR
[72] EVAIN, GAEL, FR
[72] LYPRENDI, ADELE, FR
[72] QUENNEHEN, LUCIEN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-11-21
[86] 2016-05-18 (PCT/FR2016/051168)
[87] (WO2016/189223)
[30] FR (1554626) 2015-05-22

[11] **2,987,069**
[13] C
[51] **Int.Cl. B03C 1/28 (2006.01) B03C 1/01 (2006.01) B03C 1/033 (2006.01) B03C 1/30 (2006.01)**
[25] EN
[54] **FLOW-THROUGH PARAMAGNETIC PARTICLE-BASED CELL SEPARATION AND PARAMAGNETIC PARTICLE REMOVAL**
[54] **SEPARATION DE CELLULES BASEES SUR DES PARTICULES PARAMAGNETIQUES A ECOULEMENT TRAVERSANT ET ELIMINATION DES PARTICULES PARAMAGNETIQUES**
[72] FACHIN, FABIO, US
[72] RIETZE, RODNEY, US
[72] CAO, LAN, US
[72] GREENE, MICHAEL R., US
[73] NOVARTIS AG, CH
[73] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2017-11-23
[86] 2016-06-03 (PCT/US2016/035755)
[87] (WO2016/196957)
[30] US (62/171,787) 2015-06-05
[30] US (62/173,702) 2015-06-10

[11] **2,988,105**
[13] C
[51] **Int.Cl. G06F 15/16 (2006.01) G11B 27/10 (2006.01) H04N 5/00 (2011.01) H04N 5/14 (2006.01) H04N 5/76 (2006.01)**
[25] EN
[54] **CONTENT SEGMENTATION AND TIME RECONCILIATION**
[54] **SEGMENTATION DE CONTENU ET RECONCILIATION DE TEMPS**
[72] MILLER, BENJAMIN AARON, US
[72] JUSTMAN, JASON D., US
[72] GITCHELL, MATTHEW KEITH, US
[72] HAISCH, STACIA LYNN, US
[72] KERSTEN, JONATHAN DAVID, US
[72] MARCHIO, MATTHEW KARL, US
[72] PULLIAM, PETER ARTHUR, US
[72] SMITH, GEORGE ALLEN, US
[72] TIBBETTS, TODD CHRISTOPHER, US
[72] BOUCHARD, LORA CLARK, US
[72] BOUCHARD, MICHAEL ELLERY, US
[72] COTLOVE, KEVIN JAMES, US
[73] SINCLAIR BROADCAST GROUP, INC., US
[85] 2017-12-01
[86] 2016-06-01 (PCT/US2016/035359)
[87] (WO2016/196693)
[30] US (62/169,506) 2015-06-01

[11] **2,988,316**
[13] C
[51] **Int.Cl. H04W 72/11 (2023.01)**
[25] EN
[54] **SEMI-PERSISTENT SCHEDULING FOR ENHANCED MACHINE TYPE COMMUNICATIONS**
[54] **PROGRAMMATION SEMI-PERSISTANTE POUR COMMUNICATIONS AMELIOREES DE TYPE MACHINE**
[72] VAJAPEYAM, MADHAVAN SRINIVASAN, US
[72] CHEN, WANSHI, US
[72] XU, HAO, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-12-04
[86] 2016-07-22 (PCT/US2016/043461)
[87] (WO2017/015528)
[30] US (62/196,223) 2015-07-23
[30] US (15/215,809) 2016-07-21

[11] **2,988,427**
[13] C
[51] **Int.Cl. H04W 8/02 (2009.01) H04W 4/10 (2009.01) H04W 12/06 (2021.01) H04W 12/069 (2021.01)**
[25] EN
[54] **METHOD AND SYSTEM TO AUTHENTICATE MULTIPLE IMS IDENTITIES**
[54] **PROCEDE ET SYSTEME POUR AUTHENTIFIER DE MULTIPLES IDENTITES DE SOUS-SYSTEME MULTIMEDIA DE PROTOCOLE INTERNET (IMS)**
[72] BUCKLEY, ADRIAN, US
[72] ALLEN, ANDREW MICHAEL, US
[72] BUCKLEY, MICHAEL EOIN, US
[73] BLACKBERRY LIMITED, CA
[85] 2017-12-06
[86] 2016-06-29 (PCT/CA2016/050765)
[87] (WO2017/000071)
[30] US (14/788,099) 2015-06-30

[11] **2,989,855**
[13] C
[51] **Int.Cl. H01Q 19/17 (2006.01) H01P 3/00 (2006.01) H01Q 1/12 (2006.01) H01Q 21/06 (2006.01) H01Q 21/29 (2006.01)**
[25] EN
[54] **MECHANICAL ARCHITECTURE OF A BEAM FORMER FOR SINGLE-REFLECTOR MFPB ANTENNA WITH FEED SHARING IN TWO DIMENSIONS OF SPACE AND METHOD FOR PRODUCING THE BEAM FORMER**
[54] **ARCHITECTURE MECANIQUE D'UN APPAREIL DE FORMATION DE FAISCEAU DESTINE A UNE ANTENNE MFPB A SIMPLE REFLECTEUR A PARTAGE D'ALIMENTATION EN DEUX DIMENSIONS D'ESPACE ET METHODE DE FORMATION DE FAISCEAU**
[72] BOSSHARD, PIERRE, FR
[72] LEBRUN, FLORENT, FR
[72] JOCHEM, HELENE, FR
[73] THALES, FR
[86] (2989855)
[87] (2989855)
[22] 2017-12-21
[30] FR (1601834) 2016-12-22

[11] **2,990,942**
[13] C
[51] **Int.Cl. C12N 15/09 (2006.01) A01H 5/00 (2018.01) A01H 5/02 (2018.01) C12N 5/10 (2006.01)**
[25] EN
[54] **CREATION OF CHRYSANTHEMUM WITH BLUE FLOWER COLOR**
[54] **CREATION DE CHRYSANTHEMES A FLEURS DE COULEUR BLEUE**
[72] NODA, NAONOBU, JP
[72] AIDA, RYUTARO, JP
[72] HONGO, SATOSHI, JP
[72] SATO, SANAE, JP
[72] TANAKA, YOSHIKAZU, JP
[73] SUNTORY HOLDINGS LIMITED, JP
[85] 2017-12-27
[86] 2016-06-30 (PCT/JP2016/069536)
[87] (WO2017/002945)
[30] JP (2015-133069) 2015-07-01

[11] **2,993,575**
[13] C
[51] **Int.Cl. G05D 1/246 (2024.01) B60W 60/00 (2020.01) G09B 29/10 (2006.01)**
[25] EN
[54] **ACTIVE DRIVING MAP FOR SELF-DRIVING ROAD VEHICLE**
[54] **CARTES ROUTIERES ACTIVES DESTINEES A UN VEHICULE ROUTIER AUTONOME**
[72] POLLOCK, RICHARD, CA
[72] BETKE, BRENDAN, AU
[73] DYNAMIC MAP PLATFORM NORTH AMERICA, INC., US
[86] (2993575)
[87] (2993575)
[22] 2018-01-31
[30] US (62/454,379) 2017-02-03

[11] **2,994,611**
[13] C
[51] **Int.Cl. C12P 21/02 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12P 21/00 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **METHOD FOR INCREASING THE GALACTOSE CONTENT OF RECOMBINANT PROTEINS**
[54] **PROCEDE POUR AUGMENTER LA TENEUR EN GALACTOSE DE PROTEINES RECOMBINANTES**
[72] PUTICS, AKOS, HU
[72] ZALAI, DENES, HU
[72] NAGY, GASPAR, HU
[72] PARTA, LASZLO, HU
[72] SCHLEICHER, ARON, HU
[73] RICHTER GEDEON NYRT., HU
[85] 2018-02-02
[86] 2016-08-04 (PCT/EP2016/068651)
[87] (WO2017/021493)
[30] HU (P1500363) 2015-08-04

[11] **2,995,275**
[13] C
[51] **Int.Cl. C12N 15/82 (2006.01) A01N 43/90 (2006.01) C12N 9/02 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR HERBICIDE TOLERANCE IN PLANTS**
[54] **METHODES ET COMPOSITIONS POUR LA TOLERANCE AUX HERBICIDES DES PLANTES**
[72] EVDOKIMOV, ARTEM G., US
[72] LARUE, CLAYTON T., US
[72] MOSHIRI, FARHAD, US
[72] REAM, JOEL E., US
[72] ZHOU, XUEFENG, US
[73] MONSANTO TECHNOLOGY LLC, US
[85] 2018-02-08
[86] 2016-08-08 (PCT/US2016/046041)
[87] (WO2017/039969)
[30] US (62/212,716) 2015-09-01
[30] US (62/323,852) 2016-04-18
[30] US (15/228,993) 2016-08-04

[11] **2,995,375**
[13] C
[51] **Int.Cl. A61K 31/519 (2006.01) C12Q 1/6809 (2018.01) A61K 31/50 (2006.01) A61P 35/00 (2006.01) G01N 33/48 (2006.01) G01N 33/483 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR CANCER EXPRESSING PDE3A OR SLFN12**
[54] **COMPOSITIONS ET PROCEDES POUR LA DETECTION DE CELLULES CANCEREUSES EXPRIMANT PDE3A OU SLFN12**
[72] DE WAAL, LUC, US
[72] MEYERSON, MATTHEW, US
[72] GREULICH, HEIDI, US
[72] SCHENONE, MONICA, US
[72] BURGIN, ALEX, US
[72] WU, XIAOYUN, US
[72] SACK, ULRIKE, US
[73] THE BROAD INSTITUTE, INC., US
[73] DANA-FARBER CANCER INSTITUTE, INC., US
[73] BAYER PHARMA AKTIENGESELLSCHAFT, DE
[85] 2018-02-09
[86] 2016-08-12 (PCT/US2016/046912)
[87] (WO2017/027854)
[30] US (62/204,875) 2015-08-13

[11] **2,996,608**
[13] C
[51] **Int.Cl. H04B 1/18 (2006.01) H04B 1/04 (2006.01)**
[25] EN
[54] **ACTIVE ARRAY CALIBRATION**
[54] **CALIBRAGE D'UN RESEAU ACTIF**
[72] BANU, MIHAI, US
[72] FENG, YIPING, US
[73] NEC ADVANCED NETWORKS, INC., US
[85] 2018-02-23
[86] 2016-09-08 (PCT/US2016/050625)
[87] (WO2017/044528)
[30] US (62/216,592) 2015-09-10

[11] **2,999,142**
[13] C
[51] **Int.Cl. H01R 13/703 (2006.01) H02G 3/18 (2006.01)**
[25] EN
[54] **PLUG LOAD RECEPTACLE**
[54] **PRISE POUR CHARGE A FICHE**
[72] ABUGHAZALEH, SHADI ALEX, US
[72] PECK, DAVID, US
[72] DUPUIS, JOE, US
[73] HUBBELL INCORPORATED, US
[85] 2018-03-19
[86] 2016-09-22 (PCT/US2016/053045)
[87] (WO2017/053529)
[30] US (62/222,148) 2015-09-22

[11] **3,000,216**
[13] C
[51] **Int.Cl. B01J 20/20 (2006.01) B01D 53/04 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01) B01J 20/32 (2006.01)**
[25] EN
[54] **CARBON MOLECULAR SIEVE ADSORBENTS PREPARED FROM ACTIVATED CARBON AND USEFUL FOR PROPYLENE-PROPANE SEPARATION**
[54] **ADSORBANTS A TAMIS MOLECULAIRE DE CARBONE PREPARES A PARTIR DE CHARBON ACTIF ET UTILES POUR LA SEPARATION DE PROPYLENE-PROPANE**
[72] LIU, JUNQIANG, US
[72] HAN, CHAN, US
[72] GOSS, JANET M., US
[72] CALVERLEY, EDWARD M., US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2018-03-27
[86] 2016-09-08 (PCT/US2016/050695)
[87] (WO2017/058486)
[30] US (62/234,701) 2015-09-30

[11] **3,000,303**
[13] C
[51] **Int.Cl. C09C 1/36 (2006.01) C08K 3/00 (2018.01) C08K 9/02 (2006.01)**
[25] EN
[54] **TITANIUM DIOXIDE PARTICULATE SOLIDS TREATED WITH AN ALKYPHOSPHONIC ACID COATING MATERIAL**
[54] **SOLIDES PARTICULAIRES DE DIOXYDE DE TITANE TRAITES AU MOYEN D'UN MATERIAU DE REVETEMENT A L'ACIDE ALKYPHOSPHONIQUE**
[72] JONES, ANTHONY G, GB
[72] WILLIAMSON, DAVID, GB
[72] COSTELLO, PETER, GB
[72] EDWARDS, JOHN L, GB
[73] VENATOR MATERIALS UK LIMITED, GB
[85] 2018-03-28
[86] 2016-09-23 (PCT/GB2016/052963)
[87] (WO2017/055814)
[30] GB (1517478.2) 2015-10-02

[11] **3,000,421**
[13] C
[51] **Int.Cl. A61L 2/10 (2006.01)**
[25] EN
[54] **CURTAIN SANITIZER DEVICE AND METHOD OF USING THE SAME**
[54] **DISPOSITIF ASSAINISSANT POUR RIDEAUX ET SON PROCEDE D'UTILISATION**
[72] JURCENKO, JONATHAN, US
[72] MCCORMICK, SCOTT, US
[73] STANDARD TEXTILE CO., INC., US
[86] (3000421)
[87] (3000421)
[22] 2018-04-06
[30] US (15/481,864) 2017-04-07

[11] **3,001,265**
[13] C
[51] **Int.Cl. C08K 3/26 (2006.01) C08L 1/02 (2006.01)**
[25] EN
[54] **3D-FORMABLE SHEET MATERIAL**
[54] **MATERIAU EN FEUILLE POST-FORMABLE EN 3D**
[72] HUNZIKER, PHILIPP, CH
[72] GANE, PATRICK, CH
[72] KRITZINGER, JOHANNES, CH
[72] SCHENKER, MICHEL, CH
[73] FIBERLEAN TECHNOLOGIES LIMITED, GB
[85] 2018-04-06
[86] 2016-10-13 (PCT/IB2016/001573)
[87] (WO2017/064559)
[30] EP (15189863.2) 2015-10-14
[30] EP (16166349.7) 2016-04-21

[11] **3,002,145**
[13] C
[51] **Int.Cl. E02B 11/00 (2006.01) E02D 31/02 (2006.01)**
[25] EN
[54] **HEAT-BONDED POROUS STRUCTURES FROM RECYCLED PLASTICS AND METHODS FOR MAKING**
[54] **STRUCTURES POREUSES THERMOCOLLEES PRODUITES A PARTIR DE MATIERES PLASTIQUES RECYCLEES ET LEURS PROCEDES DE FABRICATION**
[72] CRAVEN, ROBIN JOHN, GB
[72] GRINDROD, JOHN, GB
[73] TEN CATE THIOLON B.V., NL
[85] 2018-04-13
[86] 2016-10-13 (PCT/NL2016/050704)
[87] (WO2017/065607)
[30] GB (1518066.4) 2015-10-13

[11] **3,003,468**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) G01N 33/574 (2006.01)**
[25] EN
[54] **BINDING MOLECULES SPECIFIC FOR ASCT2 AND USES THEREOF**
[54] **MOLECULES DE LIAISON SPECIFIQUES D'ASCT2 ET LEURS UTILISATIONS**
[72] PORE, NABENDU, US
[72] BORROK, MARTIN J., III, US
[72] CHOWDHURY, PARTHA, US
[72] MICHELOTTI, EMIL F., US
[72] TICE, DAVID A., US
[72] HOLLINGSWORTH, ROBERT E., US
[72] CHANG, CHIEN-YING, US
[73] MEDIMMUNE, LLC, US
[85] 2018-04-26
[86] 2016-11-10 (PCT/US2016/061219)
[87] (WO2017/083451)
[30] US (62/253,371) 2015-11-10
[30] US (62/253,774) 2015-11-11

[11] **3,004,629**
[13] C
[51] **Int.Cl. F24F 11/00 (2018.01) F24F 3/044 (2006.01) F24F 13/12 (2006.01) F24F 13/30 (2006.01)**
[25] EN
[54] **HVAC SYSTEM COMPRISING INDEPENDENTLY VARIABLE REFRIGERANT FLOW (VRF) AND VARIABLE AIR FLOW (VAF)**
[54] **SYSTEME CVC COMPRENANT UN FLUX DE REFRIGERANT VARIABLE (VRF) ET UN FLUX D'AIR VARIABLE (VAB) INDEPENDANTS**
[72] NELSON, JOHN, US
[73] ADDISON HVAC LLC, US
[85] 2018-05-07
[86] 2017-01-14 (PCT/US2017/013605)
[87] (WO2017/124055)
[30] US (62/279,193) 2016-01-15

[11] **3,005,335**
[13] C
[51] **Int.Cl. A61H 15/00 (2006.01)**
[25] EN
[54] **BODY MASSAGING APPARATUS**
[54] **APPAREIL DE MASSAGE CORPOREL**
[72] CROSS, TERRY, US
[72] BARTOLOTTA, NICOLAS, US
[73] RANGE OF MOTION PRODUCTS, LLC, US
[86] (3005335)
[87] (3005335)
[22] 2018-05-18
[30] US (15/982,956) 2018-05-17

[11] **3,005,359**
[13] C
[51] **Int.Cl. B62M 6/40 (2010.01) B62M 6/55 (2010.01) E05F 15/60 (2015.01) E05F 15/697 (2015.01) B60W 20/40 (2016.01) B60J 5/04 (2006.01) B60K 1/00 (2006.01) B60K 7/00 (2006.01) B62B 5/00 (2006.01) B62M 19/00 (2006.01) E05F 1/00 (2006.01) F16D 29/00 (2006.01)**
[25] EN
[54] **HUMAN-HYBRID POWERTRAIN FOR A VEHICLE OR MOVING EQUIPMENT USING MAGNETORHEOLOGICAL FLUID CLUTCH APPARATUS**
[54] **GROUPE MOTOPROPULSEUR HUMAIN-HYBRIDE POUR UN VEHICULE OU UN EQUIPEMENT DE DEPLACEMENT UTILISANT UN APPAREIL D'EMBRAYAGE A FLUIDE MAGNETO-RHEOLOGIQUE**
[72] DENNINGER, MARC, CA
[72] JULIO, GUIFRE, CA
[72] PLANTE, JEAN-SEBASTIEN, CA
[72] LAROSE, PASCAL, CA
[73] EXONETIK INC., CA
[85] 2018-05-15
[86] 2016-11-16 (PCT/CA2016/051338)
[87] (WO2017/083970)
[30] US (62/255,839) 2015-11-16
[30] US (62/358,216) 2016-07-05
[30] US (62/367,186) 2016-07-27

[11] **3,006,549**
[13] C
[51] **Int.Cl. G03B 15/07 (2021.01) H05B 47/105 (2020.01) H05B 47/155 (2020.01) F21V 33/00 (2006.01)**
[25] EN
[54] **LIGHTING SYSTEM AND METHOD FOR OPERATING LIGHTING SYSTEM**
[54] **SYSTEME D'ECLAIRAGE ET METHODE D'EXPLOITATION DUDIT SYSTEME D'ECLAIRAGE**
[72] ABOU-FADEL, SIMON ANTHONY, CA
[72] WEBSTER, CRAIG, US
[73] ABOU-FADEL, SIMON ANTHONY, CA
[73] WEBSTER, CRAIG, US
[86] (3006549)
[87] (3006549)
[22] 2018-05-29
[30] US (62/512,596) 2017-05-30

[11] **3,007,459**
[13] C
[51] **Int.Cl. B42D 25/435 (2014.01)**
[25] EN
[54] **SECURITY ELEMENT HAVING A LENTICULAR IMAGE**
[54] **ELEMENT DE SECURITE MUNI D'UNE IMAGE LENTICULAIRE**
[72] FUHSE, CHRISTIAN, DE
[72] RAUCH, ANDREAS, DE
[72] DEPTA, GEORG, DE
[73] GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, DE
[85] 2018-06-05
[86] 2016-12-12 (PCT/EP2016/002089)
[87] (WO2017/097430)
[30] DE (10 2015 015 991.7) 2015-12-10

[11] **3,007,515**
[13] C
[51] **Int.Cl. F16K 31/122 (2006.01) F15B 15/06 (2006.01) F15B 15/14 (2006.01) F16K 31/163 (2006.01)**
[25] FR
[54] **MULTI-POSITION ROTARY ACTUATOR CONTROLLED BY A FLUID**
[54] **ACTIONNEUR ROTATIF A POSITIONNEMENT MULTIPLE CONTROLE PAR UN FLUIDE**
[72] VILLERET, GUILLAUME, FR
[72] TADINO, VINCENT, BE
[72] LORENT, MARC, FR
[72] ORLEANS, ADRIEN, BE
[73] OUT AND OUT CHEMISTRY SPRL, BE
[85] 2018-06-04
[86] 2016-11-30 (PCT/EP2016/079204)
[87] (WO2017/097648)
[30] BE (2015/5817) 2015-12-11

[11] **3,007,843**
[13] C
[51] **Int.Cl. H01M 10/613 (2014.01) H01M 10/052 (2010.01) H01M 10/0585 (2010.01) H01M 10/0587 (2010.01) H01M 10/64 (2014.01) H01M 10/66 (2014.01)**
[25] EN
[54] **BATTERY WITH VARIABLE ELECTROCHEMICAL CELLS CONFIGURATION**
[54] **BATTERIE A CONFIGURATION VARIABLE DE CELLULES ELECTROCHIMIQUES**
[72] COTTON, FREDERIC, CA
[72] REBOUL-SALZE, CEDRIC, CA
[72] LEBLANC, PATRICK, CA
[72] GUENA, THIERRY, CA
[72] VALLEE, ALAIN, CA
[73] BLUE SOLUTIONS CANADA INC., CA
[85] 2018-06-08
[86] 2016-12-12 (PCT/CA2016/000312)
[87] (WO2017/096465)
[30] US (62/266,036) 2015-12-11

[11] **3,008,443**
[13] C
[51] **Int.Cl. B01J 19/24 (2006.01) B01F 25/431 (2022.01)**
[25] EN
[54] **STATIC MIXERS FOR CONTINUOUS FLOW CATALYTIC REACTORS**
[54] **MELANGEURS STATIQUES POUR REACTEURS CATALYTIQUES A FLUX CONTINU**
[72] HENRY, WILLIAM, AU
[72] TSANAKTSIDIS, JOHN, AU
[72] HORNUNG, CHRISTIAN, AU
[72] URBAN, ANDREW JOSEPH, AU
[72] FRASER, DARREN, AU
[72] GUNASEGARAM, DAYALAN ROMESH, AU
[72] HORNE, MICHAEL DAVID, AU
[72] VEDER, JEAN-PIERRE, AU
[72] RODOPOULOS, THEO, AU
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2018-06-14
[86] 2016-12-21 (PCT/AU2016/051267)
[87] (WO2017/106916)
[30] AU (2015905354) 2015-12-23
[30] AU (2016903998) 2016-10-03

[11] **3,008,573**
[13] C
[51] **Int.Cl. A01K 45/00 (2006.01)**
[25] EN
[54] **METHOD, DEVICE AND SYSTEM FOR HANDLING, GRADING AND VACCINATING LIVING BIRDS**
[54] **PROCEDE, DISPOSITIF ET SYSTEME DE MANIPULATION, CLASSEMENT ET VACCINATION D'OISEAUX VIVANTS**
[72] FORNER DOMENECH, IVAN, ES
[72] HERNANDEZ GOMEZ, SANTIAGO, ES
[73] AGRI ADVANCED TECHNOLOGIES GMBH, DE
[85] 2018-06-14
[86] 2017-01-17 (PCT/EP2017/050886)
[87] (WO2017/125387)
[30] EP (16151757.8) 2016-01-18

[11] **3,010,455**
[13] C
[51] **Int.Cl. A01J 25/00 (2006.01)**
[25] EN
[54] **CURD KNEADING MACHINE FOR THE PRODUCTION OF PULLED-CURD CHEESES**
[54] **MACHINE DE MALAXAGE DE CAILLE POUR LA FABRICATION DE FROMAGES TIRES DE CAILLEBOTTE**
[72] TOMATIS, STEFANO, IT
[73] CMT COSTRUZIONI MECCANICHE E TECNOLOGIA SPA, IT
[85] 2018-07-03
[86] 2017-03-10 (PCT/EP2017/055654)
[87] (WO2017/157785)
[30] IT (102016000026211) 2016-03-14

[11] **3,010,700**
[13] C
[51] **Int.Cl. A61B 1/00 (2006.01)**
[25] EN
[54] **HYBRID TRANSSEPTAL DILATOR AND METHODS OF USING THE SAME**
[54] **DILATATEUR TRANSSEPTAL HYBRIDE ET SES PROCEDES D'UTILISATION**
[72] THOMPSON SMITH, MELANIE, CA
[72] LEUNG, LINUS, CA
[72] DAVIES, GARETH, CA
[73] BOSTON SCIENTIFIC MEDICAL DEVICE LIMITED, IE
[85] 2018-07-05
[86] 2017-01-06 (PCT/IB2017/050065)
[87] (WO2017/118948)
[30] US (62/275,907) 2016-01-07

[11] **3,011,922**
[13] C
[51] **Int.Cl. G01S 11/16 (2006.01)**
[25] EN
[54] **RANGE-FINDING AND OBJECT-POSITIONING SYSTEMS AND METHODS USING SAME**
[54] **SYSTEMES DE TELEMETRIE ET DE POSITIONNEMENT D'OBJET ET PROCEDES LES UTILISANT**
[72] LOWE, MATTHEW WILLIAM, CA
[72] DEHGHANIAN, VAHID, CA
[73] ZEROKEY INC., CA
[85] 2018-07-19
[86] 2017-01-20 (PCT/CA2017/050066)
[87] (WO2017/124195)
[30] US (62/280,958) 2016-01-20

[11] **3,012,315**
[13] C
[51] **Int.Cl. B02C 17/02 (2006.01) B02C 17/00 (2006.01) B02C 17/18 (2006.01) B22D 31/00 (2006.01) B22D 43/00 (2006.01)**
[25] EN
[54] **MULTI DIRECTIONAL RIFLING AND MULTI FLOW VARIABLE SPEED RIFLING FOR LINER SEGMENTS FOR CRUSHERS, RECLAIMERS, SEPARATORS AND CLEANERS FOR PRODUCTS**
[54] **RAYURES MULTIDIRECTIONNELLES ET RAYURES A VITESSE VARIABLE A FLUX MULTIPLES POUR SEGMENTS DE REVETEMENT DE BROYEURS, DE DISPOSITIFS DE RECUPERATION, DE SEPARATEURS ET DE DISPOSITIFS DE NETTOYAGE POUR DES PRODUITS**
[72] DIDION, MICHAEL, US
[72] DIDION, MARK, US
[73] DIDION TECHNOLOGIES LLC, US
[85] 2018-07-23
[86] 2017-02-01 (PCT/US2017/000011)
[87] (WO2017/139043)
[30] US (62/388,839) 2016-02-08

[11] **3,013,624**
[13] C
[51] **Int.Cl. G09G 5/36 (2006.01) G06F 9/44 (2018.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR USING EGL WITH AN OPENGL API AND A VULKAN GRAPHICS DRIVER**
[54] **SYSTEMES ET METHODES D'UTILISATION D'EGL AVEC UNE API OPENGL ET UN PILOTE GRAPHIQUE VULKAN**
[72] HERRING, DANIEL, US
[72] WENGER, KENNETH, CA
[73] CHANNEL ONE HOLDINGS INC., US
[86] (3013624)
[87] (3013624)
[22] 2018-08-08
[30] US (62/543046) 2017-08-09

[11] **3,014,603**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/15 (2006.01) A61B 5/157 (2006.01) G06F 21/00 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR INTER-APP COMMUNICATIONS**
[54] **SYSTEMES ET PROCEDES DE COMMUNICATIONS ENTRE DES APPLICATIONS**
[72] MORRIS, GARY A., US
[72] BELLIVEAU, SCOTT M., US
[72] CABRERA, ESTEBAN, JR., US
[72] DRAEGER, RIAN, US
[72] DUNN, LAURA J., US
[72] HAMPAPURAM, HARI, US
[72] HANNEMANN, CHRISTOPHER ROBERT, US
[72] KAMATH, APURV ULLAS, US
[72] KOEHLER, KATHERINE YERRE, US
[72] MCBRIDE, PATRICK WILE, US
[72] MENSINGER, MICHAEL ROBERT, US
[72] PASCUAL, FRANCIS WILLIAM, US
[72] PELLOUCHOUD, PHILIP MANSIEL, US
[72] POLYTARIDIS, NICHOLAS, US
[72] PUPA, PHILIP THOMAS, US
[72] DAVIS, ANNA LEIGH, US
[72] SHOEMAKER, KEVIN, US
[72] SMITH, BRIAN CHRISTOPHER, US
[72] WEST, BENJAMIN ELROD, US
[72] WILEY, ATIIM JOSEPH, US
[72] GOLDSMITH, TIMOTHY JOSEPH, US
[73] DEXCOM, INC., US
[85] 2018-08-13
[86] 2017-03-30 (PCT/US2017/025170)
[87] (WO2017/173162)
[30] US (62/315,948) 2016-03-31
[30] US (62/370,182) 2016-08-02

[11] **3,014,674**
[13] C
[51] **Int.Cl. G01N 33/574 (2006.01) A61K 38/00 (2006.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS COMPRISING FIXED INTERMITTENT DOSING OF CEDIRANIB**
[54] **PROCEDES COMPRENANT UN DOSAGE INTERMITTENT ET FIXE DE CEDIRANIB**
[72] BARRY, SIMON, GB
[72] KENDREW, JANE, GB
[72] HO, TONY, US
[72] WEDGE, STEPHEN ROBERT, GB
[72] IVY, SUSAN PERCY, US
[72] KOHN, ELISE, US
[72] LEE, JUNG-MIN, US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[73] ASTRAZENECA AB, SE
[85] 2018-08-14
[86] 2017-02-14 (PCT/US2017/017804)
[87] (WO2017/142871)
[30] US (62/295,421) 2016-02-15

[11] **3,014,700**
[13] C
[51] **Int.Cl. H02G 15/18 (2006.01)**
[25] EN
[54] **SLEEVE ASSEMBLY**
[54] **ENSEMBLE MANCHON**
[72] SOUCY, GENEVIEVE, CA
[72] HILLION, NICOLAS, CA
[73] SICAME ENERGIE INC., CA
[85] 2018-08-15
[86] 2017-03-21 (PCT/CA2017/050356)
[87] (WO2017/161448)
[30] US (62/311,096) 2016-03-21

[11] **3,015,440**
[13] C
[51] **Int.Cl. C12N 15/79 (2006.01)**
[25] EN
[54] **EXPRESSION SYSTEM FOR EUKARYOTIC ORGANISMS**
[54] **SYSTEME D'EXPRESSION POUR DES ORGANISMES EUCARYOTES**
[72] MOJZITA, DOMINIK, FI
[72] RANTASALO, ANSSI, FI
[72] JANTTI, JUSSI, FI
[72] LANDOWSKI, CHRISTOPHER, FI
[72] KUIVANEN, JOOSU, FI
[73] TEKNOLOGIAN TUTKIMUSKESKUS VTT OY, FI
[85] 2018-08-22
[86] 2017-02-21 (PCT/FI2017/050114)
[87] (WO2017/144777)
[30] FI (20165137) 2016-02-22

[11] **3,016,937**
[13] C
[51] **Int.Cl. E04G 1/06 (2006.01) E04G 7/20 (2006.01) E04G 7/30 (2006.01) E04G 7/32 (2006.01) E04G 11/48 (2006.01) E04G 25/06 (2006.01)**
[25] EN
[54] **FRAME ELEMENT WITH A SUPPORT HEAD, AND BUILDING SCAFFOLD COMPRISING SUCH A FRAME ELEMENT**
[54] **ELEMENT D'ECHAFAUDAGE MUNI D'UNE TETE DE SUPPORT ET ECHAFAUDAGE EQUIPE D'UN TEL ELEMENT D'ECHAFAUDAGE**
[72] MEYER, ANDREAS, DE
[72] MIKIC, ERZAD, DE
[72] READ, ANDREW, DE
[72] SPECHT, RUDOLF, DE
[73] PERI SE, DE
[85] 2018-09-06
[86] 2017-03-01 (PCT/EP2017/054773)
[87] (WO2017/162415)
[30] DE (10 2016 204 694.2) 2016-03-22

[11] **3,017,058**
[13] C
[51] **Int.Cl. H01Q 1/52 (2006.01) H01Q 9/04 (2006.01) H01Q 21/06 (2006.01) H01Q 21/08 (2006.01)**
[25] EN
[54] **ANTENNA ARRAY ASSEMBLY**
[54] **ENSEMBLE RESEAU D'ANTENNES**
[72] CLARK, PAUL, GB
[72] WILKINS, ADAM, GB
[72] MORRELL, CARL, GB
[72] KING, NIGEL, GB
[73] CAMBIUM NETWORKS LTD, GB
[85] 2018-09-07
[86] 2017-03-07 (PCT/GB2017/050597)
[87] (WO2017/153730)
[30] GB (1603966.1) 2016-03-08
[30] US (15/074,781) 2016-03-18

[11] **3,017,060**
[13] C
[51] **Int.Cl. H04B 7/0452 (2017.01) H04B 7/06 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR CHANNEL SOUNDING FOR A MU-MIMO WIRELESS COMMUNICATION NETWORK**
[54] **PROCEDE ET APPAREIL DE SONDAGE DE CANAL DESTINES A UN RESEAU DE COMMUNICATION SANS FIL MU-MIMO**
[72] STRONG, PETER, GB
[73] CAMBIUM NETWORKS LTD, GB
[85] 2018-09-07
[86] 2017-03-07 (PCT/GB2017/050599)
[87] (WO2017/153732)
[30] GB (1603978.6) 2016-03-08
[30] US (15/074,821) 2016-03-18

[11] **3,017,604**
[13] C
[51] **Int.Cl. G01N 33/53 (2006.01) G01N 33/48 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **CALCIUM BINDING PROTEIN, SPERMATID SPECIFIC 1, AS A BIOMARKER FOR DIAGNOSIS OR TREATMENT OF STRESS**
[54] **PROTEINE DE LIAISON AU CALCIUM, SPECIFIQUE DU SPERMATIDE 1, COMME BIOMARQUEUR POUR DIAGNOSTIC OU TRAITEMENT DU STRESS**
[72] RITZ, THOMAS, CA
[72] ST-LAURENT, CHRIS, CA
[72] ST-LAURENT, KATHERINE, CA
[72] BEFUS, DEAN, CA
[73] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2018-09-13
[86] 2017-03-14 (PCT/CA2017/050331)
[87] (WO2017/156625)
[30] US (62/308,655) 2016-03-15

[11] **3,018,214**
[13] C
[51] **Int.Cl. G01T 1/20 (2006.01) G01T 1/24 (2006.01) G01T 7/00 (2006.01)**
[25] EN
[54] **RADIATION DETECTOR FOR SIMULTANEOUSLY DETECTING A PLURALITY OF RADIATIONS**
[54] **DETECTEUR DE RAYONNEMENT POUR LA DETECTION SIMULTANEE D'UNE PLURALITE DE RAYONNEMENTS**
[72] QUEVEDO-LOPEZ, MANUEL, US
[72] MEJIA SILVA, JESUS I., US
[72] PRADHAN, BHABENDRA K., US
[72] GNADE, BRUCE E., US
[73] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[73] NANOHOLDINGS LLC, US
[85] 2018-09-18
[86] 2017-03-17 (PCT/US2017/022893)
[87] (WO2017/161229)
[30] US (62/310,338) 2016-03-18

[11] **3,018,933**
[13] C
[51] **Int.Cl. A01F 12/60 (2006.01) A01D 41/12 (2006.01) A01D 41/127 (2006.01)**
[25] EN
[54] **A COMBINE HARVESTER HAVING A GRAIN BIN**
[54] **MOISSONNEUSE-BATTEUSE POURVUE D'UNE CELLULE A GRAIN**
[72] DUCROQUET, FREDERIC, IT
[73] AGCO CORPORATION, US
[85] 2018-09-25
[86] 2017-03-29 (PCT/IB2017/000328)
[87] (WO2017/187249)
[30] US (62/327,502) 2016-04-26

[11] **3,018,973**
[13] C
[51] **Int.Cl. H05B 3/42 (2006.01) B05B 11/04 (2006.01) H01R 35/04 (2006.01)**
[25] EN
[54] **TOPICAL PREPARATION WARMING DEVICE**
[54] **DISPOSITIF DE RECHAUFFEMENT DE PREPARATION A USAGE EXTERNE**
[72] DA SILVA, JORGE, US
[72] GILLESPIE, RONALD J., US
[72] PAUNESCU, ALEXANDRU, US
[73] JOHNSON & JOHNSON CONSUMER INC. (A DELAWARE CORPORATION), US
[85] 2018-09-25
[86] 2017-03-29 (PCT/US2017/024672)
[87] (WO2017/172865)
[30] US (62/314,706) 2016-03-29

[11] **3,019,225**
[13] C
[51] **Int.Cl. A01C 23/00 (2006.01) A01B 15/18 (2006.01) A01B 49/06 (2006.01) A01C 5/04 (2006.01) A01C 5/06 (2006.01) A01C 15/00 (2006.01) A01G 25/09 (2006.01)**
[25] EN
[54] **IMPLEMENTS AND APPLICATION UNITS HAVING AT LEAST ONE APPLICATION MEMBER FOR PLACEMENT OF APPLICATIONS WITH RESPECT TO AGRICULTURAL PLANTS OF AGRICULTURAL FIELDS**
[54] **OUTILS ET UNITES D'APPLICATION AYANT AU MOINS UN ELEMENT D'APPLICATION POUR LA REALISATION D'APPLICATIONS PAR RAPPORT A DES PLANTES AGRICOLES DE CHAMPS AGRICOLES**
[72] LEMAN, TRACY, US
[72] STOLLER, JASON, US
[72] RADTKE, IAN, US
[72] WILDERMUTH, PAUL, US
[73] PRECISION PLANTING LLC, US
[85] 2018-09-26
[86] 2017-04-18 (PCT/US2017/028188)
[87] (WO2017/184639)
[30] US (62/324,095) 2016-04-18
[30] US (62/365,824) 2016-07-22
[30] US (62/442,895) 2017-01-05

[11] **3,019,363**
[13] C
[51] **Int.Cl. A61F 13/56 (2006.01) A61F 13/471 (2006.01) A61F 13/58 (2006.01)**
[25] EN
[54] **FOLDABLE URINE ABSORBENT PAD THAT ENVELOPS MALE GENITALIA**
[54] **SERVIETTE ABSORBANTE REPLIABLE ENVELOPPANT L'ORGANE SEXUEL MASCULIN POUR L'ABSORPTION D'URINE**
[72] LUMAQUE-STEEMAN, LORNA MATEO, US
[72] JOHNSON, WADE C., US
[73] EZ MALE PADS, INCORPORATED, US
[85] 2018-09-27
[86] 2017-03-30 (PCT/US2017/025121)
[87] (WO2017/173132)
[30] US (15/087,557) 2016-03-31

[11] **3,019,871**
[13] C
[51] **Int.Cl. A61B 5/369 (2021.01) A61B 5/291 (2021.01) A61B 5/00 (2006.01)**
[25] EN
[54] **BIOSIGNAL ACQUISITION DEVICE AND SYSTEM, METHOD FOR ACQUISITION OF BIOSIGNALS**
[54] **DISPOSITIF ET SYSTEME D'ACQUISITION DE SIGNAUX BIOLOGIQUES, PROCEDE D'ACQUISITION DE SIGNAUX BIOLOGIQUES**
[72] VON LUHMANN, ALEXANDER, DE
[72] MULLER, KLAUS-ROBERT, DE
[73] TECHNISCHE UNIVERSITAT BERLIN, DE
[85] 2018-10-03
[86] 2017-03-17 (PCT/EP2017/056411)
[87] (WO2017/174330)
[30] US (15/090,141) 2016-04-04

[11] **3,019,959**
[13] C
[51] **Int.Cl. B25J 9/16 (2006.01) B25J 9/00 (2006.01) B25J 9/14 (2006.01) B25J 15/00 (2006.01) B25J 15/12 (2006.01)**
[25] EN
[54] **SOFT ROBOTIC ACTUATORS FOR POSITIONING, PACKAGING, AND ASSEMBLING**
[54] **ACTIONNEURS ROBOTIQUES SOUPLES POUR POSITIONNEMENT, EMBALLAGE ET ASSEMBLAGE**
[72] LESSING, JOSHUA AARON, US
[72] HARBURG, DANIEL VINCENT, NL
[72] SINGH, SARV PARTEEK, US
[72] CURHAN, JEFFREY, US
[73] SOFT ROBOTICS, INC., US
[85] 2018-10-03
[86] 2017-04-07 (PCT/US2017/026581)
[87] (WO2017/177126)
[30] US (62/319,571) 2016-04-07

[11] **3,019,971**
[13] C
[51] **Int.Cl. E04G 11/38 (2006.01) A62B 35/00 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **SAFETY POST**
[54] **COLONNE DE FIXATION**
[72] BORNACK, KLAUS, DE
[72] KELLER, MARTIN, DE
[73] PERI SE, DE
[85] 2018-10-03
[86] 2017-04-07 (PCT/EP2017/058464)
[87] (WO2017/174808)
[30] DE (10 2016 106 533.1) 2016-04-08

[11] **3,020,151**
[13] C
[51] **Int.Cl. A61K 8/35 (2006.01) A61K 8/02 (2006.01) A61K 8/36 (2006.01) A61Q 15/00 (2006.01)**
[25] EN
[54] **SOLID STICK DEODORANT COMPRISING DIPROPYLENE GLYCOL AND PROPYLENE GLYCOL**
[54] **BATON SOLIDE DE DEODORANT COMPRENANT UN DIPROPYLENE GLYCOL ET UN PROPYLENE GLYCOL**
[72] BARREIRA, RAQUEL ALZIRA CUNHA, US
[72] BREWSTER, DAVID ALLEN, US
[72] DEGUERVILLE, ELODIE AURORE SUZANNE, GB
[72] EMSLIE, BRUCE STEVEN, GB
[72] KOWCZ, ALYSSA VICTORIA, US
[73] UNILEVER GLOBAL IP LIMITED, GB
[85] 2018-09-27
[86] 2017-04-12 (PCT/EP2017/058766)
[87] (WO2017/182358)
[30] EP (16166000.6) 2016-04-19

[11] **3,020,201**
[13] C
[51] **Int.Cl. E04G 11/38 (2006.01) E04G 17/00 (2006.01) E04G 21/32 (2006.01)**
[25] EN
[54] **SIDE PROTECTOR, CEILING FORMWORK SYSTEM HAVING AT LEAST ONE SUCH SIDE PROTECTOR, AND METHOD FOR ERECTING SUCH A SIDE PROTECTOR**
[54] **PROTECTION LATERALE, SYSTEME DE COFFRAGE DE PLAFOND POURVU D'AU MOINS UNE TELLE PROTECTION LATERALE ET PROCEDE DE FABRICATION D'UNE TELLE PROTECTION LATERALE**
[72] SCHNEIDER, WERNER, DE
[72] EPPELT, GISBERT, DE
[73] PERI SE, DE
[85] 2018-10-05
[86] 2017-03-01 (PCT/EP2017/054812)
[87] (WO2017/174264)
[30] DE (10 2016 205 957.2) 2016-04-08

[11] **3,020,219**
[13] C
[51] **Int.Cl. B01D 53/14 (2006.01) C10L 3/10 (2006.01)**
[25] EN
[54] **PREMIX FOR PRODUCING AN ABSORPTION AGENT FOR REMOVING ACID GASES FROM A FLUID FLOW**
[54] **PREMELANGE POUR LA PRODUCTION D'UN AGENT D'ABSORPTION POUR L'ELIMINATION DE GAZ ACIDES D'UN FLUX DE FLUIDE**
[72] INGRAM, THOMAS, DE
[72] VORBERG, GERALD, DE
[72] SIEDER, GEORG, DE
[73] BASF SE, DE
[85] 2018-10-05
[86] 2017-04-06 (PCT/EP2017/058285)
[87] (WO2017/182289)
[30] EP (16165810.9) 2016-04-18

[11] **3,020,285**
[13] C
[51] **Int.Cl. C08F 120/20 (2006.01) C08K 5/09 (2006.01) C08K 5/098 (2006.01) C09K 5/20 (2006.01)**
[25] EN
[54] **A MULTIPLE-COMPONENT COMPOSITION FOR PRODUCING A CORROSION INHIBITING HYDROGEL**
[54] **COMPOSITION A CONSTITUANTS MULTIPLES POUR LA PRODUCTION D'UN HYDROGEL INHIBITEUR DE CORROSION**
[72] HAUFE, MARKUS, CH
[72] HUG, MAX, CH
[72] BAKALLI, MIRDASH, CH
[73] SIKA TECHNOLOGY AG, CH
[85] 2018-10-05
[86] 2017-04-13 (PCT/EP2017/059015)
[87] (WO2017/186517)
[30] EP (16167301.7) 2016-04-27

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[11] **3,020,828**
[13] C
[51] **Int.Cl. G09C 5/00 (2006.01) G06F 7/72 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR CHEON RESISTANT STATIC DIFFIE-HELLMAN SECURITY**
[54] **PROCEDE ET SYSTEME DE SECURITE DE DIFFIE-HELMAN STATIQUE A RESISTANCE DE CHEON**
[72] BROWN, DANIEL RICHARD L., CA
[73] BLACKBERRY LIMITED, CA
[85] 2018-10-12
[86] 2017-02-14 (PCT/CA2017/050175)
[87] (WO2017/190223)
[30] US (15/145,428) 2016-05-03

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[11] **3,020,847**
[13] C
[51] **Int.Cl. A61K 31/538 (2006.01) A61P 27/16 (2006.01)**
[25] EN
[54] **(+)-AZASETRON FOR USE IN THE TREATMENT OF EAR DISORDERS**
[54] **(+)-AZASETRON DESTINE A ETRE UTILISE DANS LE TRAITEMENT DE TROUBLES DE L'OREILLE**
[72] DYHRFJELD-JOHNSEN, JONAS, FR
[73] SENSORION, FR
[85] 2018-10-12
[86] 2017-04-14 (PCT/EP2017/059058)
[87] (WO2017/178645)
[30] US (62/322,690) 2016-04-14
[30] EP (16180192.3) 2016-07-19

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[11] **3,020,962**
[13] C
[51] **Int.Cl. B25C 7/00 (2006.01) F16P 3/14 (2006.01)**
[25] EN
[54] **SMART TRIGGER SYSTEM**
[54] **SYSTEME DE DECLENCHEMENT INTELLIGENT**
[72] NAGURKA, MARK L., US
[72] MARKLIN, RICHARD W., US
[73] MARQUETTE UNIVERSITY, US
[85] 2018-10-12
[86] 2016-04-15 (PCT/US2016/027867)
[87] (WO2017/180155)

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[11] **3,021,149**
[13] C
[51] **Int.Cl. A61J 1/14 (2006.01) A61J 1/20 (2006.01)**
[25] EN
[54] **A SEPTUM HOLDER WITH MOVEABLE SEPTUM**
[54] **SUPPORT DE SEPTUM A SEPTUM MOBILE**
[72] KRIHELI, MARINO, IL
[72] TAVOR, RAANAN, IL
[73] EQUASHIELD MEDICAL LTD., IL
[85] 2018-10-15
[86] 2017-04-19 (PCT/IL2017/050457)
[87] (WO2017/183031)
[30] IL (245289) 2016-04-21

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[11] **3,021,383**
[13] C
[51] **Int.Cl. C08F 112/08 (2006.01)**
[25] EN
[54] **PROCESS AND CATALYST FOR HYDROGEN MEDIATED SALINE HYDRIDE INITIATED ANIONIC CHAIN TRANSFER POLYMERIZATION**
[54] **PROCEDE ET CATALYSEUR POUR LA POLYMERISATION PAR TRANSFERT DE CHAINE ANICONIQUE INITIEE PAR UN HYDRURE SALIN, MEDIEE PAR L'HYDROGENE**
[72] LAYMAN, WILLIAM J., US
[73] ALBEMARLE CORPORATION, US
[85] 2018-10-18
[86] 2017-04-06 (PCT/US2017/026340)
[87] (WO2017/184350)
[30] US (62/325,149) 2016-04-20

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[11] **3,021,600**
[13] C
[51] **Int.Cl. C10G 65/04 (2006.01) C10G 7/06 (2006.01) C10G 21/14 (2006.01) C10G 27/12 (2006.01) C10G 31/09 (2006.01) C10G 31/10 (2006.01) C10G 32/02 (2006.01) C10G 45/08 (2006.01) C10G 47/12 (2006.01) C10G 65/12 (2006.01)**
[25] FR
[54] **CONVERSION PROCESS COMPRISING PERMUTABLE HYDRODEMETALLIZATION GUARD BEDS, A FIXED-BED HYDROTREATMENT STEP AND A HYDROCRACKING STEP IN PERMUTABLE REACTORS**
[54] **PROCEDE DE CONVERSION COMPRENANT DES LITS DE GARDE PERMUTABLES D'HYDRODEMETALLATION, UNE ETAPE D'HYDROTRAITEMENT EN LIT FIXE ET UNE ETAPE D'HYDROCRAQUAGE EN REACTEURS PERMUTABLES**
[72] WEISS, WILFRIED, FR
[72] TELLIER, ELODIE, FR
[72] CHATRON-MICHAUD, PASCAL, FR
[73] IFP ENERGIES NOUVELLES, FR
[85] 2018-10-18
[86] 2017-04-11 (PCT/EP2017/058686)
[87] (WO2017/186484)
[30] FR (1653751) 2016-04-27

[11] **3,022,419**
[13] C
[51] **Int.Cl. C23C 2/00 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01) C23C 2/20 (2006.01) C23C 2/40 (2006.01)**
[25] FR
[54] **APPARATUS FOR THE CONTINUOUS HOT DIP COATING OF A METAL STRIP, AND ASSOCIATED METHOD**
[54] **INSTALLATION DE REVETEMENT AU TREMPE A CHAUD ET EN CONTINU D'UNE BANDE METALLIQUE ET PROCEDE ASSOCIE**
[72] SAINT-RAYMOND, HUBERT, FR
[72] VEG, JOSE, FR
[72] DAUCHELLE, DIDIER, FR
[73] ARCELORMITTAL, LU
[85] 2018-10-25
[86] 2017-04-26 (PCT/IB2017/052413)
[87] (WO2017/187364)
[30] IB (PCT/IB2016/052358) 2016-04-26

[11] **3,022,766**
[13] C
[51] **Int.Cl. A61C 8/00 (2006.01)**
[25] EN
[54] **PROSTHETIC ASSEMBLY AND METHOD FOR PRODUCING THE SAME**
[54] **ENSEMBLE PROTHETIQUE ET SON PROCEDE DE PRODUCTION**
[72] THOME, GENINHO, BR
[72] MERTIN, FELIX ANDREAS, BR
[72] PEREIRA DA SILVA, IVANIO, BR
[72] CALIXTO SALATTI, RAFAEL, BR
[73] JJGC INDUSTRIA E COMERCIO DE MATERIAIS DENTARIOS S.A., BR
[85] 2018-10-31
[86] 2017-04-28 (PCT/BR2017/050101)
[87] (WO2017/190207)
[30] BR (BR102016010184-0) 2016-05-05

[11] **3,023,103**
[13] C
[51] **Int.Cl. E05F 15/605 (2015.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING THE OPERATION OF A MOVABLE PANEL WALL SYSTEM**
[54] **SYSTEMES ET PROCEDES POUR COMMANDER LE FONCTIONNEMENT D'UN SYSTEME DE PANNEAU MURAL MOBILE**
[72] JONES, BRADLEY A., US
[72] WELCH, BRYAN THOMAS, US
[72] BEELER, MICHAEL W., US
[72] DREITLEIN, JONATHAN TAYLOR, US
[72] MEYERS, WILLIAM S., US
[73] MODERNFOLD, INC., US
[85] 2018-11-02
[86] 2017-05-04 (PCT/US2017/030977)
[87] (WO2017/196624)
[30] US (62/333,235) 2016-05-08

[11] **3,025,102**
[13] C
[51] **Int.Cl. B23C 5/20 (2006.01) B23C 5/06 (2006.01)**
[25] EN
[54] **CUTTING TOOL AND TRIANGULAR-SHAPED INDEXABLE CUTTING INSERT THEREFOR**
[54] **OUTIL DE COUPE ET PLAQUETTE DE COUPE INDEXABLE DE FORME TRIANGULAIRE ASSOCIEE**
[72] MEN, YURI, IL
[73] ISCAR LTD., IL
[85] 2018-11-21
[86] 2017-06-06 (PCT/IL2017/050629)
[87] (WO2018/002911)
[30] US (15/197,855) 2016-06-30

[11] **3,025,594**
[13] C
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/496 (2006.01) A61P 35/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **BICYCLIC PYRIDINE, PYRAZINE, AND PYRIMIDINE DERIVATIVES AS PI3K BETA INHIBITORS**
[54] **DERIVES BICYCLIQUES DE PYRIDINE, DE PYRAZINE ET DE PYRIMIDINE UTILISES EN TANT QU'INHIBITEURS DE PI3K BETA**
[72] BERTHELOT, DIDIER JEAN-CLAUDE, FR
[72] MEVELLEC, LAURENCE ANNE, FR
[72] ANGIBAUD, PATRICK RENE, FR
[72] COUPA, SOPHIE, FR
[72] DEMESTRE, CHRISTOPHE GABRIEL MARCEL, FR
[72] MEERPOEL, LIEVEN, BE
[72] MERCEY, GUILLAUME JEAN MAURICE, FR
[72] MEYER, CHRISTOPHE, FR
[72] PASQUIER, ELISABETH THERESE JEANNE, FR
[72] PILATTE, ISABELLE NOELLE CONSTANCE, FR
[72] PONCELET, VIRGINIE SOPHIE, FR
[72] QUEROLLE, OLIVIER ALEXIS GEORGES, FR
[73] JANSSEN PHARMACEUTICA NV, BE
[85] 2018-11-26
[86] 2017-06-15 (PCT/EP2017/064671)
[87] (WO2017/216292)
[30] EP (16174715.9) 2016-06-16

[11] **3,026,270**
[13] C
[51] **Int.Cl. A61K 8/89 (2006.01) A61K 8/02 (2006.01) A61K 8/64 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **EXTERNAL PREPARATION FOR SKIN FOR WRINKLE IMPROVEMENT**
[54] **PREPARATION EXTERNE POUR LA PEAU, ET POUR L'AMELIORATION DES RIDES**
[72] HINOKITANI, TOSHIHIRO, JP
[72] HOMMA, SHIGETSUGU, JP
[73] POLA CHEMICAL INDUSTRIES, INC., JP
[85] 2018-11-30
[86] 2017-06-21 (PCT/JP2017/022824)
[87] (WO2017/221973)
[30] JP (2016-125685) 2016-06-24

[11] **3,027,691**
[13] C
[51] **Int.Cl. B01L 3/00 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **ACOUSTIC SEPARATION FOR BIOPROCESSING**
[54] **SEPARATION ACOUSTIQUE POUR BIOTRAITEMENT BIOPROCEDESBIOPROCEDES**
[72] FIERING, JASON O., US
[72] KOTZ, KENNETH, US
[73] THE CHARLES STARK DRAPER LABORATORY, INC., US
[85] 2018-12-13
[86] 2017-04-28 (PCT/US2017/030232)
[87] (WO2018/022158)
[30] US (62/367,773) 2016-07-28

[11] **3,028,546**
[13] C
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 9/15 (2021.01) C25B 9/00 (2021.01) C25B 15/08 (2006.01)**
[25] EN
[54] **WATER RESERVOIR AND ELECTROLYSIS CELL COMBINATION**
[54] **COMBINAISON DE RESERVOIR D'EAU ET DE CELLULE D'ELECTROLYSE**
[72] FORTUNE, DOUGLAS, CA
[73] EMPIRE HYDROGEN ENERGY SYSTEMS INC., CA
[86] (3028546)
[87] (3028546)
[22] 2018-12-21

[11] **3,028,868**
[13] C
[51] **Int.Cl. B01J 20/18 (2006.01) B01J 20/28 (2006.01) B01J 20/30 (2006.01) C07C 7/13 (2006.01)**
[25] FR
[54] **ZEOLITE ADSORBENT IN THE FORM OF LOW-TORTUOSITY AGGLOMERATES**
[54] **ADSORBANT ZEOLITHIQUE SOUS FORME D'AGGLOMERES A FAIBLE TORTUOSITE**
[72] LAROCHE, CATHERINE, FR
[72] LEFLAIVE, PHILIBERT, FR
[72] BOUVIER, LUDIVINE, FR
[72] LUTZ, CECILE, FR
[73] IFP ENERGIES NOUVELLES, FR
[73] ARKEMA FRANCE, FR
[85] 2018-12-20
[86] 2017-06-28 (PCT/EP2017/066054)
[87] (WO2018/002174)
[30] FR (1656031) 2016-06-28

[11] **3,029,266**
[13] C
[51] **Int.Cl. G01D 3/02 (2006.01) G01S 17/04 (2020.01) G01S 13/04 (2006.01)**
[25] EN
[54] **DETERMINING A LOAD STATUS OF A PLATFORM**
[54] **DETERMINATION DE L'ETAT DE CHARGE D'UNE PLATE-FORME**
[72] CHENNAKESHU, SANDEEP, US
[72] GAO, YU, CA
[72] STOLPMAN, VICTOR JAMES, US
[72] BENNETT, JESSE WILLIAM, US
[73] BLACKBERRY LIMITED, CA
[85] 2018-12-21
[86] 2017-08-02 (PCT/US2017/045102)
[87] (WO2018/026919)
[30] US (15/229,495) 2016-08-05

[11] **3,030,361**
[13] C
[51] **Int.Cl. C09J 197/00 (2006.01) C08H 7/00 (2011.01) B27N 3/14 (2006.01) C07G 1/00 (2011.01) C08L 61/06 (2006.01) C08L 97/00 (2006.01) C09J 161/06 (2006.01)**
[25] EN
[54] **LIGNIN-BASED PHENOLIC RESIN**
[54] **RESINE PHENOLIQUE A BASE DE LIGNINE**
[72] ZAFAR, ASHAR, SE
[72] ARESKOGH, DIMITRI, SE
[72] EKSTROM, JESPER, SE
[73] STORA ENSO OYJ, FI
[85] 2019-01-09
[86] 2017-07-03 (PCT/IB2017/054006)
[87] (WO2018/011668)
[30] SE (1651025-7) 2016-07-11

[11] **3,030,414**
[13] C
[51] **Int.Cl. F16L 41/06 (2006.01) F16K 3/30 (2006.01) F16K 43/00 (2006.01) F16L 47/34 (2006.01) F16L 55/07 (2006.01) F16L 55/105 (2006.01)**
[25] EN
[54] **AUTOMATED PRESSURE EQUALIZATION ABOVE AND BELOW COMPLETION PLUG OF GATE VALVE CARTRIDGE OR A COMPLETION PLUG OF A LINE STOP FITTING**
[54] **EGALISATION DE PRESSION AUTOMATISEE AU-DESSUS ET AU-DESSOUS D'UN BOUCHON DE COMPLETION D'UNE CARTOUCHE DE ROBINET-VANNE OU DE BOUCHON DE COMPLETION D'UN RACCORD D'ARRET DE LIGNE**
[72] NELSON, ANDREW J., US
[72] VAZZANA, CHRISTOPHER C., US
[72] STRICKLAND, COLE, US
[72] MASTNY, CARL, US
[73] HYDRA-STOP LLC, US
[86] (3030414)
[87] (3030414)
[22] 2019-01-17
[30] US (15/950,634) 2018-04-11

[11] **3,030,511**
[13] C
[51] **Int.Cl. C07D 471/14 (2006.01) A61K 51/04 (2006.01)**
[25] EN
[54] **COMPOUNDS FOR IMAGING TAU PROTEIN AGGREGATES**
[54] **COMPOSES POUR L'IMAGERIE D'AGREGATS DE PROTEINES TAU**
[72] KROTH, HEIKO, CH
[72] MOLETTE, JEROME, FR
[72] DARMENCY, VINCENT, CH
[72] SCHIEFERSTEIN, HANNO, DE
[72] MULLER, ANDRE, DE
[72] SCHMITT-WILLICH, HERIBERT, DE
[72] BERNDT, MATHIAS, DE
[72] ODEN, FELIX, DE
[72] GABELLIERI, EMANUELE, CH
[73] AC IMMUNE S.A., CH
[73] LIFE MOLECULAR IMAGING LIMITED, GB
[85] 2019-01-10
[86] 2017-07-21 (PCT/EP2017/068509)
[87] (WO2018/015549)
[30] EP (16180908.2) 2016-07-22

[11] **3,031,406**
[13] C
[51] **Int.Cl. B04C 5/04 (2006.01)**
[25] EN
[54] **CLASSIFYING APPARATUS, SYSTEMS AND METHODS**
[54] **APPAREIL, SYSTEMES ET PROCEDES DE CLASSIFICATION**
[72] GRIMM, LAFE, US
[72] HANSON, SHANE, US
[72] ILOTT, PAUL, US
[73] SUPERIOR INDUSTRIES, INC., US
[85] 2019-01-18
[86] 2017-07-21 (PCT/US2017/043276)
[87] (WO2018/017950)
[30] US (62/365,214) 2016-07-21
[30] US (29/591,837) 2017-01-24
[30] US (29/591,840) 2017-01-24
[30] US (62/465,132) 2017-02-28

[11] **3,031,546**
[13] C
[51] **Int.Cl. H04N 19/176 (2014.01) H04N 19/132 (2014.01) H04N 19/154 (2014.01) H04N 19/182 (2014.01) H04N 19/59 (2014.01) H04N 19/593 (2014.01)**
[25] EN
[54] **DATA COMPRESSION BY MEANS OF ADAPTIVE SUBSAMPLING**
[54] **COMPRESSION DE DONNEES PAR SOUS-ECHANTILLONNAGE ADAPTATIF**
[72] WANG, ZHE, DE
[72] BAROUD, YOUSEF, DE
[72] NAJMABADI, SEYYED MAHDI, DE
[72] SIMON, SVEN, DE
[73] UNIVERSITAT STUTTGART, DE
[85] 2019-01-22
[86] 2017-03-23 (PCT/EP2017/057011)
[87] (WO2017/162835)
[30] DE (10 2016 003 681.8) 2016-03-24

[11] **3,033,077**
[13] C
[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/69 (2017.01) A61K 9/127 (2006.01) A61K 31/517 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ALPHA AND GAMMA-D POLYGLUTAMATED ANTIFOLATES AND USES THEREOF**
[54] **ANTIFOLATES ALPHA ET GAMMA-D DE POLYGLUTAMATES ET LEURS UTILISATIONS**
[72] NIYIKIZA, CLET, US
[72] MOYO, VICTOR MANDLA, US
[73] L.E.A.F. HOLDINGS GROUP LLC, US
[85] 2019-02-05
[86] 2017-08-12 (PCT/US2017/046666)
[87] (WO2018/031979)
[30] US (62/374,458) 2016-08-12
[30] US (15/675,695) 2017-08-11
[30] US (15/675,701) 2017-08-11

[11] **3,033,333**
[13] C
[51] **Int.Cl. A23L 33/175 (2016.01) A61K 31/198 (2006.01) C12P 13/12 (2006.01)**
[25] EN
[54] **NUTRITIONAL TREATMENT FOR CANCER**
[54] **TRAITEMENT NUTRITIONNEL ANTICANCEREUX**
[72] LI, XIYAN, US
[72] SNYDER, MICHAEL, US
[72] WANG, XIN, US
[73] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2019-02-07
[86] 2016-09-20 (PCT/US2016/052720)
[87] (WO2017/053328)
[30] US (62/221,589) 2015-09-21

[11] **3,034,792**
[13] C
[51] **Int.Cl. A61B 34/10 (2016.01) A61B 34/00 (2016.01) A61B 17/62 (2006.01) A61B 90/00 (2016.01) A61B 17/66 (2006.01)**
[25] EN
[54] **ORTHOPEDIC FIXATION CONTROL AND MANIPULATION**
[54] **CONTROLE ET MANIPULATION DE FIXATION ORTHOPEDIQUE**
[72] WAHL, MICHAEL, US
[72] GUTMANN, BERND, DE
[72] CLANCY, KEVIN, US
[72] HEAVEY, DANA, US
[72] COREY, TINA, US
[72] KENT, TODD, US
[73] DEPUY SYNTHES PRODUCTS, INC., US
[73] DEPUY SYNTHES PRODUCTS, INC., US
[85] 2019-02-22
[86] 2017-08-14 (PCT/IB2017/054952)
[87] (WO2018/037314)
[30] US (15/247,333) 2016-08-25

[11] **3,034,853**
[13] C
[51] **Int.Cl. G02C 7/02 (2006.01) B29D 11/00 (2006.01) G02C 13/00 (2006.01)**
[25] EN
[54] **METHOD FOR MONITORING A SPECTACLE LENS**
[54] **PROCEDE DE SURVEILLANCE D'UN VERRE DE LUNETTES**
[72] MAURICE, SEBASTIEN, FR
[72] FERREIRA, DANIEL, FR
[72] HUBERT, CHRISTOPHE, FR
[72] AUFFRAY, STEPHANE, FR
[73] ESSILOR INTERNATIONAL, FR
[85] 2019-02-22
[86] 2017-09-07 (PCT/EP2017/072421)
[87] (WO2018/046579)
[30] EP (16306122.9) 2016-09-07

[11] **3,035,267**
[13] C
[51] **Int.Cl. A01F 15/07 (2006.01) A01F 15/10 (2006.01)**
[25] EN
[54] **CONTINUOUS ROUND BALER AND IMPROVED METHOD OF ROUND BALE FORMATION**
[54] **PRESSE A BALLES RONDES CONTINUE ET PROCEDE AMELIORE DE FORMATION DE BALLES RONDES**
[72] FREY, OSCAR, CA
[72] KNORR, ORVIE, CA
[73] TUBE-LINE MANUFACTURING LTD., CA
[85] 2019-02-27
[86] 2017-08-31 (PCT/CA2017/051031)
[87] (WO2018/039801)
[30] GB (1614767.0) 2016-08-31
[30] GB (1702063.7) 2017-02-08
[30] GB (1702065.2) 2017-02-08

[11] **3,035,271**
[13] C
[51] **Int.Cl. A61M 1/00 (2006.01)**
[25] EN
[54] **SUCTIONING AND SUPPLYING DEVICE WITH DRIVE UNIT AND CONNECTING PART**
[54] **DISPOSITIF D'ASPIRATION ET D'AMENEE COMPRENANT UNE UNITE D'ENTRAINEMENT ET UNE PIECE DE RACCORDEMENT**
[72] EHLERT, HILMAR, CH
[72] BANNWART, LUKAS, CH
[73] MEDELA HOLDING AG, CH
[85] 2019-02-27
[86] 2017-09-18 (PCT/EP2017/073464)
[87] (WO2018/054833)
[30] EP (16189674.1) 2016-09-20

[11] **3,036,752**
[13] C
[51] **Int.Cl. C04B 35/56 (2006.01) C22C 29/08 (2006.01)**
[25] EN
[54] **A ROCK DRILL INSERT**
[54] **ORGANE DE PERCAGE DE ROCHE**
[72] MARTENSSON, MALIN, SE
[72] ARVANITIDIS, IOANNIS, SE
[72] TURBA, KRYSTOF, SE
[73] SANDVIK INTELLECTUAL PROPERTY AB, SE
[85] 2019-03-13
[86] 2017-09-25 (PCT/EP2017/074193)
[87] (WO2018/060125)
[30] EP (16191046.8) 2016-09-28

[11] **3,038,653**
[13] C
[51] **Int.Cl. B26B 21/22 (2006.01)**
[25] EN
[54] **SINGLE-BLADE RAZOR APPARATUS**
[54] **APPAREIL DE TYPE RASOIR A LAME UNIQUE**
[72] BARRETT, TOD, US
[72] STANSBERRY, FRANK PORTER, US
[72] PROMMEL, MARK, US
[73] ONEBLADE, INC., US
[85] 2019-03-27
[86] 2016-10-25 (PCT/US2016/058696)
[87] (WO2018/080463)

[11] **3,038,698**
[13] C
[51] **Int.Cl. H01R 13/73 (2006.01) H01H 83/02 (2006.01) H01R 13/66 (2006.01) H02G 3/14 (2006.01) H02G 3/18 (2006.01) H02M 7/04 (2006.01)**
[25] EN
[54] **WALL-MOUNTED MULTIFUNCTIONAL ELECTRICAL RECEPTACLE**
[54] **RECEPTACLE ELECTRIQUE MULTIFONCTIONNEL A MONTAGE MURAL**
[72] IACONIS, JEAN-LOUIS, CA
[72] ANGUELOV, JORDAN, CA
[72] ZHAO, LONG FEI, CA
[72] TAYLOR, ROBERT J. B., CA
[73] SHD SMART HOME DEVICES LTD., CA
[85] 2019-03-28
[86] 2016-10-07 (PCT/CA2016/051176)
[87] (WO2017/059546)
[30] US (62/238,654) 2015-10-07

[11] **3,039,069**
[13] C
[51] **Int.Cl. C09K 15/20 (2006.01) C07C 269/04 (2006.01) C07C 271/20 (2006.01) C09K 8/524 (2006.01) C09K 8/528 (2006.01) F17D 1/05 (2006.01)**
[25] EN
[54] **HYDROXYALKYLURETHANE KINETIC HYDRATE INHIBITORS**
[54] **INHIBITEURS D'HYDRATES CINETIQUES D'HYDROXYALKYLURETHANE**
[72] CLEMENTS, JOHN H., US
[72] PAKULSKI, MAREK, US
[72] LEWIS, DAVID C., US
[73] INDORAMA VENTURES OXIDES LLC, US
[85] 2019-04-01
[86] 2018-01-30 (PCT/US2018/015859)
[87] (WO2018/160306)
[30] US (62/464,493) 2017-02-28

[11] **3,039,791**
[13] C
[51] **Int.Cl. A01C 5/06 (2006.01) A01C 5/00 (2006.01) A01C 7/08 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **AIR SEEDER PRESS WHEEL AND CLOSING WHEEL FORCE CONTROL**
[54] **ROUE TASSEUSE DE SEMOIR PNEUMATIQUE ET COMMANDE DE FORCE DE ROUE DE FERMETURE**
[72] FRANK, WILLIAM, US
[72] PLATTNER, CHAD, US
[73] PRECISION PLANTING LLC, US
[85] 2019-04-08
[86] 2017-10-19 (PCT/US2017/057421)
[87] (WO2018/075788)
[30] US (62/410,742) 2016-10-20

[11] **3,040,020**
[13] C
[51] **Int.Cl. B01D 33/04 (2006.01) B01D 37/02 (2006.01) C02F 1/28 (2006.01) C02F 1/38 (2006.01)**
[25] EN
[54] **DEVICE FOR TREATING AN EFFLUENT AND METHOD FOR TREATING AN EFFLUENT**
[54] **DISPOSITIF DE TRAITEMENT D'UN EFFLUENT ET PROCEDE DE TRAITEMENT D'UN EFFLUENT**
[72] DOMENJOUD, BRUNO, FR
[72] MANIC, GILDAS, FR
[73] SUEZ INTERNATIONAL, FR
[85] 2019-04-10
[86] 2017-10-11 (PCT/EP2017/075902)
[87] (WO2018/073061)
[30] FR (1660035) 2016-10-17

[11] **3,040,923**
[13] C
[51] **Int.Cl. G06F 16/95 (2019.01) G06F 16/29 (2019.01) G09B 29/00 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **FEATURE MANAGEMENT FOR WEB MAP TILE SERVICES**
[54] **GESTION DE CARACTERISTIQUES POUR DES SERVICES DE TUILES DE CARTE WEB**
[72] JETER, GARY W., US
[72] BAIG, MOHIDDIN, US
[73] INTERGRAPH CORPORATION, US
[85] 2019-04-16
[86] 2017-11-03 (PCT/US2017/059884)
[87] (WO2018/085632)
[30] US (62/417,620) 2016-11-04
[30] US (62/444,964) 2017-01-11

[11] **3,041,079**
[13] C
[51] **Int.Cl. G06F 3/04842 (2022.01) G06F 3/0488 (2022.01) G06F 9/451 (2018.01)**
[25] EN
[54] **LAYERED CONTENT SELECTION**
[54] **SELECTION DE CONTENU PAR COUCHES**
[72] WON, SUNG JOON, US
[73] MICROSOFT TECHNOLOGY LICENSING, LLC, US
[85] 2019-04-17
[86] 2017-11-07 (PCT/US2017/060262)
[87] (WO2018/089320)
[30] US (15/350,403) 2016-11-14

[11] **3,041,866**
[13] C
[51] **Int.Cl. A61C 7/00 (2006.01) A61C 19/00 (2006.01)**
[25] EN
[54] **ORTHODONTIC CORD SEGMENT**
[54] **SEGMENT DE CORDON ORTHODONTIQUE**
[72] PAGE, RUTH A., US
[73] PAGE, RUTH A., US
[86] (3041866)
[87] (3041866)
[22] 2019-04-30
[30] US (16/379,353) 2019-04-09

[11] **3,043,794**
[13] C
[51] **Int.Cl. A01B 63/114 (2006.01) A01B 63/32 (2006.01)**
[25] EN
[54] **IMPLEMENT CONTOURING TOOLBAR**
[54] **BARRE PORTE-OUTILS DE LABOUR EN COURBES DE NIVEAUX D'INSTRUMENT**
[72] FANSHIER, BENJAMIN ANSON, US
[72] SCHERTZ, REX, US
[73] AGCO CORPORATION, US
[85] 2019-05-14
[86] 2017-10-26 (PCT/IB2017/001298)
[87] (WO2018/109545)
[30] US (62/435,118) 2016-12-16

[11] **3,044,563**
[13] C
[51] **Int.Cl. F01D 15/10 (2006.01) F02C 7/08 (2006.01) F02C 7/10 (2006.01) F28D 7/10 (2006.01) F28D 7/16 (2006.01) F28F 1/04 (2006.01) F28F 9/26 (2006.01)**
[25] FR
[54] **TURBOMACHINE, NAMELY TURBOGENERATOR AND APPARATUS FOR SAID TURBOMACHINE**
[54] **TURBOMACHINE, NOTAMMENT TURBOGENERATEUR ET ECHANGEUR POUR UNE TELLE TURBOMACHINE**
[72] FAUVET, DAMIEN, FR
[73] TURBOTECH, FR
[85] 2019-05-22
[86] 2017-11-09 (PCT/FR2017/053060)
[87] (WO2018/096233)
[30] FR (16 61539) 2016-11-25

[11] **3,047,603**
[13] C
[51] **Int.Cl. G02B 1/10 (2015.01) G02B 1/14 (2015.01) C03C 17/36 (2006.01) G02B 1/11 (2015.01)**
[25] EN
[54] **LOW-EMISSIVITY COATING FOR A GLASS SUBSTRATE**
[54] **REVETEMENT A FAIBLE EMISSIVITE POUR UN SUBSTRAT EN VERRE**
[72] CID AGUILAR, JOSE GUADALUPE, MX
[72] CABRERA LLANOS, ROBERTO, MX
[72] HERNANDEZ CARRILLO, RUBI AGLAE, MX
[72] TAVARES CORTEZ, JOSE LUIS, MX
[72] JERG, CARMEN, AT
[72] WEGENER, INGO, DE
[72] XU, JIA LIN, CN
[73] VIDRIO PLANO DE MEXICO, S.A. DE C.V., MX
[85] 2019-06-18
[86] 2016-12-20 (PCT/MX2016/000188)
[87] (WO2018/117801)

[11] **3,047,723**
[13] C
[51] **Int.Cl. G01V 9/00 (2006.01) G16Z 99/00 (2019.01) E21B 44/00 (2006.01)**
[25] EN
[54] **SUBSURFACE MODELER WORKFLOW AND TOOL**
[54] **FLUX DE TRAVAIL DE MODELISATEUR DE SUBSURFACE ET OUTIL**
[72] SCHNEIDER, CURT E., US
[72] SYLTE, JAMES E., US
[72] GREER, JAMES R., US
[72] BUNCH, DAVID W., US
[73] CONOCOPHILLIPS COMPANY, US
[85] 2019-06-19
[86] 2017-11-22 (PCT/US2017/062999)
[87] (WO2018/118335)
[30] US (62/435,964) 2016-12-19
[30] US (15/820,712) 2017-11-22

[11] **3,049,778**
[13] C
[51] **Int.Cl. C12Q 1/6834 (2018.01) C12Q 1/6883 (2018.01) G01N 33/50 (2006.01)**
[25] EN
[54] **BIOMARKERS FOR SYSTEMIC LUPUS ERYTHEMATOSUS DISEASE ACTIVITY, AND INTENSITY AND FLARE**
[54] **BIOMARQUEURS DE L'ACTIVITE, DE L'INTENSITE ET DE L'ERUPTION DE LA MALADIE DU LUPUS ERYTHEMATEUX DISSEMINE**
[72] JAMES, JUDITH A., US
[72] MUNROE, MELISSA E., US
[73] OKLAHOMA MEDICAL RESEARCH FOUNDATION, US
[85] 2019-07-09
[86] 2018-01-25 (PCT/US2018/015246)
[87] (WO2018/140606)
[30] US (62/450,880) 2017-01-26

[11] **3,050,725**
[13] C
[51] **Int.Cl. A61B 5/00 (2006.01) G01N 33/49 (2006.01) G01N 33/497 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ASSESSING DRINKING BEHAVIOR**
[54] **PROCEDE ET SYSTEME POUR EVALUER UN COMPORTEMENT D'ALCOOLISATION**
[72] MOELLER, MICHAEL, US
[73] 1A SMART START LLC, US
[85] 2019-07-17
[86] 2018-01-17 (PCT/US2018/014107)
[87] (WO2018/136558)
[30] US (62/447,214) 2017-01-17

[11] **3,053,848**
[13] C
[51] **Int.Cl. B60D 1/24 (2006.01) B60D 1/36 (2006.01) B60D 1/58 (2006.01)**
[25] EN
[54] **AUTOMATED TRAILER COUPLING ARRANGEMENT**
[54] **SYSTEME D'ATTELAGE DE REMORQUE AUTOMATISE**
[72] JOHNSON, MARC R., US
[72] REDEKER, BRYAN A., US
[72] HEWITT, LARRY D., II, US
[73] SAF-HOLLAND, INC., US
[86] (3053848)
[87] (3053848)
[22] 2019-08-30
[30] US (62/731.483) 2018-09-14

[11] **3,055,538**
[13] C
[51] **Int.Cl. B25J 15/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR EFFICIENTLY MOVING A VARIETY OF OBJECTS**
[54] **SYSTEMES ET PROCEDES POUR DEPLACER EFFICACEMENT DIVERS OBJETS**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
[85] 2019-09-05
[86] 2018-03-05 (PCT/US2018/020908)
[87] (WO2018/165017)
[30] US (62/467,509) 2017-03-06

[11] **3,055,780**
[13] C
[51] **Int.Cl. B27B 31/00 (2006.01)**
[25] EN
[54] **LUMBER LOADING SYSTEM AND METHOD FOR SIMULTANEOUS LOADING AND LONGITUDINAL DISPLACEMENT OF SUCCESSIVE LUMBER PIECES USING SAME**
[54] **SYSTEME DE CHARGEMENT DE BOIS DE CONSTRUCTION ET PROCEDE PERMETTANT LE CHARGEMENT ET LE DEPLACEMENT LONGITUDINAL SIMULTANES DE PIECES DE BOIS DE CONSTRUCTION SUCCESSIVES UTILISANT CELUI-CI**
[72] GRAVEL, CLAUDE, CA
[73] SMART MILL BD INC., CA
[85] 2019-09-09
[86] 2018-03-09 (PCT/CA2018/050286)
[87] (WO2018/161174)
[30] US (62/469,882) 2017-03-10

[11] **3,057,682**
[13] C
[51] **Int.Cl. F25B 7/00 (2006.01) F25B 25/02 (2006.01)**
[25] EN
[54] **CYCLE ENHANCEMENT METHODS, SYSTEMS, AND DEVICES**
[54] **PROCEDES, SYSTEMES ET DISPOSITIFS D'AMELIORATION DE CYCLE**
[72] GOLDFARBMUREN, RUSSELL, US
[72] ERICKSON, LUKE, US
[73] REBOUND TECHNOLOGIES, INC., US
[85] 2019-09-23
[86] 2018-03-27 (PCT/US2018/024436)
[87] (WO2018/183238)
[30] US (62/477,162) 2017-03-27
[30] US (15/935,005) 2018-03-25

[11] **3,059,244**
[13] C
[51] **Int.Cl. B65B 23/22 (2006.01) B65D 5/50 (2006.01) B65D 85/42 (2006.01)**
[25] EN
[54] **PACKAGING FOR LIGHT BULBS**
[54] **EMBALLAGE POUR AMPOULES ELECTRIQUES**
[72] SPARTIS, ELIAS, US
[72] NEIPP, MAELIN, US
[72] BROUGHAM, JUSTIN, US
[73] HOME DEPOT INTERNATIONAL, INC., US
[85] 2019-10-04
[86] 2018-06-04 (PCT/US2018/035896)
[87] (WO2018/226601)
[30] US (15/615,296) 2017-06-06

[11] **3,059,720**
[13] C
[51] **Int.Cl. F24F 11/70 (2018.01) F24F 11/62 (2018.01) F24F 3/14 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR SUPPLY-AIR RE-CIRCULATION**
[54] **METHODE ET SYSTEME DE RECIRCULATION D'AIR FOURNI**
[72] GOEL, RAKESH, US
[72] PEREZ, ERIC, US
[73] LENNOX INDUSTRIES INC., US
[86] (3059720)
[87] (3059720)
[22] 2019-10-23
[30] US (16/208,880) 2018-12-04

[11] **3,060,327**
[13] C
[51] **Int.Cl. C08F 220/18 (2006.01) C08F 275/00 (2006.01) C09D 133/08 (2006.01)**
[25] EN
[54] **AQUEOUS POLYMER DISPERSION**
[54] **DISPERSION POLYMERE AQUEUSE**
[72] LI, YAN, CN
[72] CHEN, JUNYU, CN
[72] WANG, TAO, CN
[72] GONG, ZHIJUAN, CN
[72] SHEN, CHENG, CN
[72] BOHLING, JAMES, US
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[73] ROHM AND HAAS COMPANY, US
[85] 2019-10-17
[86] 2017-04-24 (PCT/CN2017/081588)
[87] (WO2018/195680)

[11] **3,063,301**
[13] C
[51] **Int.Cl. A61B 90/90 (2016.01) A61B 90/98 (2016.01) A61B 90/00 (2016.01) A61B 17/00 (2006.01) A61B 17/122 (2006.01) A61B 17/29 (2006.01)**
[25] EN
[54] **SELF-IDENTIFYING SURGICAL CLAMP, FIDUCIAL ELEMENT FOR USE WITH SUCH A CLAMP AND KITS COMPRISING SUCH CLAMPS AND FIDUCIAL ELEMENTS**
[54] **PINCE CHIRURGICALE AUTO-IDENTIFIABLE, ELEMENT DE REFERENCE A UTILISER AVEC UNE PINCE DE CE TYPE ET TROUSSES COMPRENANT LESDITES PINCES ET ELEMENTS DE REFERENCE**
[72] ONATIVIA BRAVO, JON, ES
[72] PRESA ALONSO, JORGE, ES
[72] ESCUDERO MARTINEZ DE IBARRETA, ALVARO, ES
[72] URZAINQUI GLARIA, ALFONSO, ES
[72] BERTELSEN SIMONETTI, ALVARO, ES
[73] CYBER SURGERY, S.L., ES
[85] 2019-11-12
[86] 2017-05-12 (PCT/ES2017/070304)
[87] (WO2018/206829)

[11] **3,063,538**
[13] C
[51] **Int.Cl. A61M 5/178 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **SYSTEM FOR COLLECTING INJECTION INFORMATION**
[54] **SYSTEME DE COLLECTE D'INFORMATIONS D'INJECTION**
[72] DIAZ, STEPHEN H., US
[72] SHLUZAS, ALAN E., US
[72] SHANLEY, JOHN F., US
[72] TILLACK, JEFF, US
[72] MERHIGE, JOHN, US
[72] LITVACK, FRANK, US
[72] THAYER, DAN, US
[73] CREDENCE MEDSYSTEMS, INC., US
[85] 2019-11-13
[86] 2018-05-21 (PCT/US2018/033721)
[87] (WO2018/213837)
[30] US (62/508,508) 2017-05-19

[11] **3,064,242**
[13] C
[51] **Int.Cl. H01P 1/19 (2006.01) B81B 7/02 (2006.01)**
[25] EN
[54] **PLANAR MEMS-BASED PHASE SHIFTER**
[54] **DEPHASEUR FONDE SUR LE MEMS PLANAIRE**
[72] RAEESI, AMIR, CA
[72] GHAFARIAN, NAIME, CA
[72] GIGOYAN, SUREN, CA
[72] SAFAVI-NAEINI, SAFIEDDIN, CA
[73] C-COM SATELLITE SYSTEMS INC., CA
[86] (3064242)
[87] (3064242)
[22] 2019-12-09

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[11] **3,065,208**
[13] C
[51] **Int.Cl. A61B 5/36 (2021.01) A61B 5/349 (2021.01)**
[25] EN
[54] **LONG QT SYNDROME DIAGNOSIS AND CLASSIFICATION**
[54] **DIAGNOSTIC ET CLASSIFICATION DU SYNDROME DU QT LONG**
[72] HAJIMOLAHOSEINI, HABIB, CA
[72] REDFEARN, DAMIEN P., CA
[72] HASHEMI, JAVAD, CA
[73] QUEEN'S UNIVERSITY AT KINGSTON, CA
[73] KINGSTON HEALTH SCIENCES CENTRE, CA
[86] (3065208)
[87] (3065208)
[22] 2019-12-16

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[11] **3,065,894**
[13] C
[51] **Int.Cl. E04F 15/02 (2006.01)**
[25] EN
[54] **DEVICE FOR LOCKING TWO FLOOR PANELS**
[54] **SYSTEME POUR ENCLIQUETER DEUX PANNEAUX DE SOL**
[72] GRAFENAUER, THOMAS, DE
[73] FALQUON GMBH, DE
[85] 2019-11-13
[86] 2018-05-18 (PCT/EP2018/063032)
[87] (WO2018/211054)
[30] DE (10 2017 110 878.5) 2017-05-18
[30] DE (10 2017 110 880.7) 2017-05-18

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[11] **3,065,920**
[13] C
[51] **Int.Cl. B25J 15/06 (2006.01)**
[25] EN
[54] **SUCTION HEAD FOR A WASTE SORTING SYSTEM**
[54] **TETE ASPIRANTE POUR SYSTEME DE TRI DE DECHETS**
[72] VOGELAAR, JOHANNES SIJBRAND, NL
[73] BOLLEGRAAF PATENTS AND BRANDS B.V., NL
[86] (3065920)
[87] (3065920)
[22] 2019-12-23
[30] NL (2022320) 2018-12-28

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[11] **3,066,268**
[13] C
[51] **Int.Cl. C09D 121/00 (2006.01) A61G 17/007 (2006.01) A61G 17/04 (2006.01) B29C 41/08 (2006.01) C08C 19/08 (2006.01) C08J 11/10 (2006.01) C08L 21/00 (2006.01) C09D 195/00 (2006.01)**
[25] EN
[54] **RUBBER COATING**
[54] **REVETEMENT DE CAOUTCHOUC**
[72] ACCOLLA, RAYMOND W., US
[73] ACCOLLA, RAYMOND W., US
[86] (3066268)
[87] (3066268)
[22] 2019-12-30
[30] US (16433038) 2019-06-06

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[11] **3,066,952**
[13] C
[51] **Int.Cl. A01N 65/06 (2009.01) A01N 25/10 (2006.01) A01P 1/00 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COMPOSITION COMPRISING CONIFEROUS RESIN ACID**
[54] **COMPOSITION ANTIMICROBIENNE COMPRENANT UN ACIDE DE RESINE DE CONIFERE**
[72] ALHA, KARI, FI
[72] RAMO, KOSTI, FI
[73] PREMIX OY, FI
[85] 2019-12-11
[86] 2018-06-14 (PCT/EP2018/065810)
[87] (WO2018/229190)
[30] EP (17175923.6) 2017-06-14

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[11] **3,067,431**
[13] C
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 17/10 (2006.01) E21B 17/12 (2006.01) E21B 33/05 (2006.01) E21B 33/13 (2006.01) E21B 33/134 (2006.01)**
[25] EN
[54] **DELAYED FIN DEPLOYMENT WIPER PLUG**
[54] **BOUCHON D'ESSUIE-TIGES A DEPLOIEMENT D'AILETTE RETARDE**
[72] NANNEY, JAMES G., US
[72] WHITE, MATTHEW L., US
[73] CONOCOPHILLIPS COMPANY, US
[85] 2019-12-13
[86] 2018-07-12 (PCT/US2018/041803)
[87] (WO2019/014436)
[30] US (62/532,762) 2017-07-14

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[11] **3,069,303**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/0537 (2021.01) A61B 5/00 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR DETERMINING FLUID VOLUMES USING BIOIMPEDANCE INFORMATION**
[54] **TECHNIQUES DE DETERMINATION DE VOLUMES DE FLUIDE A L'AIDE D'INFORMATIONS DE BIO-IMPEDANCE**
[72] ZHU, FANSAN, US
[72] KOTANKO, PETER, US
[72] LEVIN, NATHAN W., US
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2020-01-07
[86] 2018-07-10 (PCT/US2018/041474)
[87] (WO2019/014241)
[30] US (62/531,254) 2017-07-11

[11] **3,071,805**
[13] C
[51] **Int.Cl. A23D 7/00 (2006.01) A23C 9/152 (2006.01) A23D 7/02 (2006.01)**
[25] EN
[54] **OIL AND FAT COMPOSITION CONTAINING UNSATURATED FATTY ACID**
[54] **COMPOSITION D'HUILE ET DE GRAS CONTENANT UN ACIDE GRAS INSATURE**
[72] MORIKAWA, MIWAKO, JP
[72] KATO, MASAHARU, JP
[73] FUJI OIL HOLDINGS INC., JP
[85] 2020-01-31
[86] 2018-08-02 (PCT/JP2018/028957)
[87] (WO2019/044351)
[30] JP (2017-168917) 2017-09-01

[11] **3,071,849**
[13] C
[51] **Int.Cl. A61F 2/10 (2006.01) A61B 17/00 (2006.01)**
[25] EN
[54] **HAIR IMPLANTS COMPRISING ENHANCED ANCHORING AND MEDICAL SAFETY FEATURES**
[54] **IMPLANTS CAPILLAIRES PRESENTANT DES CARACTERISTIQUES D'ANCRAGE ET DE SECURITE MEDICALE AMELIOREES**
[72] LORIA, VICTOR, US
[73] LORIA HAIR IMPLANT COMPANY LLC, US
[85] 2020-01-31
[86] 2018-07-30 (PCT/US2018/044298)
[87] (WO2019/027864)
[30] US (15/665,369) 2017-07-31
[30] US (15/718,637) 2017-09-28

[11] **3,072,514**
[13] C
[51] **Int.Cl. G06F 16/24 (2019.01) G06F 16/25 (2019.01) G06F 16/26 (2019.01) G06F 16/907 (2019.01) G06N 20/00 (2019.01)**
[25] EN
[54] **KNOWLEDGE-DRIVEN FEDERATED BIG DATA QUERY AND ANALYTICS PLATFORM**
[54] **GRANDE PLATE-FORME FEDEREE D`ANALYSE ET DE DEMANDE DE DONNEES FONDEE SUR LES CONNAISSANCES**
[72] AGGOUR, KAREEM SHERIF, US
[72] CUDDIHY, PAUL, US
[72] KUMAR, VIJAY SHIV, US
[72] WILLIAMS, JENNY MARIE WEISENBERG, US
[72] VINCIQUERRA, ANTHONY JOSEPH, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3072514)
[87] (3072514)
[22] 2020-02-13
[30] US (16/282,643) 2019-02-22

[11] **3,072,894**
[13] C
[51] **Int.Cl. B01D 53/34 (2006.01) B01D 53/64 (2006.01) C10G 17/02 (2006.01) C10G 17/095 (2006.01) C10G 27/02 (2006.01) C10G 31/06 (2006.01) G01N 33/28 (2006.01)**
[25] EN
[54] **PROCESS FOR REMOVING MERCURY FROM CRUDE OIL**
[54] **PROCEDE D'ELIMINATION DU MERCURE PRESENT DANS DU PETROLE BRUT**
[72] LAMBERTSSON, LARS T., SE
[72] LORD, CHARLES J., US
[72] BJORN, ERIK L., SE
[72] FRECH, WOLFGANG, SE
[73] CONOCOPHILLIPS COMPANY, US
[85] 2020-02-12
[86] 2018-08-01 (PCT/US2018/044804)
[87] (WO2019/036194)
[30] US (62/545,653) 2017-08-15

[11] **3,073,547**
[13] C
[51] **Int.Cl. H05K 7/20 (2006.01) H03H 7/01 (2006.01)**
[25] EN
[54] **SELF-CONTAINED COOLING DEVICE FOR AN ELECTROMAGNETIC INTERFERENCE FILTER**
[54] **DISPOSITIF DE REFROIDISSEMENT AUTONOME POUR UN FILTRE D`INTERFERENCE ELECTROMAGNETIQUE**
[72] MESSER, TIMOTHY D., US
[72] WILLIAMS, JOHN DALTON, US
[73] THE BOEING COMPANY, US
[86] (3073547)
[87] (3073547)
[22] 2020-02-21
[30] US (16/394,609) 2019-04-25

[11] **3,074,317**
[13] C
[51] **Int.Cl. C12N 15/13 (2006.01) A61K 47/62 (2017.01) A61K 38/39 (2006.01) A61K 39/44 (2006.01) A61P 35/00 (2006.01) C07K 14/735 (2006.01) C07K 14/78 (2006.01) C07K 16/18 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C07K 19/00 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12P 21/02 (2006.01)**
[25] EN
[54] **FC.GAMMA.RII BINDING FIBRONECTIN TYPE III DOMAINS, THEIR CONJUGATES AND MULTISPECIFIC MOLECULES COMPRISING THEM**
[54] **DOMAINES DE TYPE III DE FIBRONECTINE LIANT FC.GAMMA.RII, LEURS CONJUGUES ET MOLECULES MULTISPECIFIQUES LES COMPRENANT**
[72] CHIU, MARK, US
[72] WHITAKER, BRIAN, US
[72] ZHANG, DI, US
[73] JANSSEN BIOTECH, INC., US
[85] 2020-02-21
[86] 2018-08-24 (PCT/US2018/047843)
[87] (WO2019/040808)
[30] US (62/550,152) 2017-08-25

[11] **3,075,931**
[13] C
[51] **Int.Cl. G02B 23/00 (2006.01) F41G 1/473 (2006.01) G01S 17/08 (2006.01) G02B 13/16 (2006.01) G02B 25/00 (2006.01) G02B 27/34 (2006.01)**
[25] EN
[54] **INTEGRATED OPTICAL SIGHTING SYSTEM**
[54] **SYSTEME DE VISEE OPTIQUE INTEGRE**
[72] BROWN, DOUGLAS J., CA
[72] NOBES, RYAN WALTER, CA
[72] ROSS BRIEN D., CA
[72] THORPE, MICHAEL DAVID, CA
[72] WAGNER, KEVIN BURGESS, CA
[73] RAYTHEON CANADA LIMITED, CA
[85] 2020-03-16
[86] 2017-09-29 (PCT/CA2017/000214)
[87] (WO2019/060975)

[11] **3,076,514**
[13] C
[51] **Int.Cl. G05D 1/43 (2024.01) B65G 1/04 (2006.01) B65G 1/137 (2006.01) G05D 1/244 (2024.01)**
[25] EN
[54] **DISCONTINUOUS GRID SYSTEM FOR USE IN SYSTEMS AND METHODS FOR PROCESSING OBJECTS INCLUDING MOBILE MATRIX CARRIER SYSTEMS**
[54] **SYSTEME DE GRILLE DISCONTINUE DESTINE A ETRE UTILISE DANS DES SYSTEMES ET DES PROCEDES DE TRAITEMENT D'OBJETS COMPRENANT DES SYSTEMES DE SUPPORT MATRICIEL MOBILE SUR UNE GRILLE DI SCONTINUE**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] AMEND, JOHN RICHARD JR., US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] FORT, WILLIAM HARTMAN, US
[72] GEYER, CHRISTOPHER, US
[72] KING, JENNIFER EILEEN, US
[72] KOLETSCHKA, THOMAS, US
[72] KOVAL, MICHAEL CAP, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW T., US
[72] MCMAHAN, WILLIAM CHU-HYON, US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
[85] 2020-03-19
[86] 2018-10-26 (PCT/US2018/057788)
[87] (WO2019/084457)
[30] US (62/578,030) 2017-10-27
[30] US (62/641,640) 2018-03-12
[30] US (62/681,409) 2018-06-06

[11] **3,076,975**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61P 27/06 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING CONDITIONS ASSOCIATED WITH MASP-2 DEPENDENT COMPLEMENT ACTIVATION**
[54] **METHODES DE TRAITEMENT D'ETATS ASSOCIES A UNE ACTIVATION DU COMPLEMENT DEPENDANT DR MASP-2**
[72] DEMOPULOS, GREGORY A., US
[72] DUDLER, TOM, US
[72] SCHWAEBLE, HANS-WILHELM, GB
[73] OMEROS CORPORATION, US
[73] UNIVERSITY OF LEICESTER, GB
[86] (3076975)
[87] (3076975)
[22] 2012-04-06
[62] 2,977,009
[30] US (61/473,698) 2011-04-08

[11] **3,076,981**
[13] C
[51] **Int.Cl. B65D 5/42 (2006.01) B65D 5/40 (2006.01)**
[25] EN
[54] **LIQUID PAPER CONTAINER**
[54] **RECIPIENT DE PAPIER LIQUIDE**
[72] WADA, TATSUO, JP
[72] SASE, KAZUHIKO, JP
[72] OMORI, TAKASHI, JP
[72] TANAKA, YUKIHIRO, JP
[72] ASOI, EIICHI, JP
[73] NIPPON PAPER INDUSTRIES CO., LTD., JP
[85] 2020-03-25
[86] 2018-09-19 (PCT/JP2018/034536)
[87] (WO2019/059199)
[30] JP (2017-183729) 2017-09-25

[11] **3,077,865**
[13] C
[51] **Int.Cl. F42B 6/04 (2006.01) F42B 6/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ADJUSTING THE TRAJECTORY OF AN ARROW**
[54] **SYSTEME ET METHODE D'AJUSTEMENT DE LA TRAJECTOIRE D'UNE FLECHE**
[72] FERGUSON, MICHAEL D., US
[73] PRO-TRACKER IP HOLDING, LLC, US
[86] (3077865)
[87] (3077865)
[22] 2018-10-22
[62] 3,021,779
[30] US (15/962975) 2018-04-25

[11] **3,078,267**
[13] C
[51] **Int.Cl. C07H 19/207 (2006.01) A61K 39/39 (2006.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) A61P 37/04 (2006.01) C07H 19/20 (2006.01) C07H 19/213 (2006.01) C12N 9/12 (2006.01) C12N 15/54 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS OF MODULATING THE IMMUNE RESPONSE BY ACTIVATING ALPHA PROTEIN KINASE 1**
[54] **COMPOSITIONS ET PROCEDES DE MODULATION DE LA REPONSE IMMUNITAIRE PAR ACTIVATION DE LA PROTEINE KINASE ALPHA 1**
[72] XU, TIAN, CN
[72] XU, CONG, CN
[72] LIU, DANYANG, CN
[72] FAN, JIEQING, CN
[72] PAN, YANFANG, CN
[72] LI, TONGRUEI RAYMOND, CN
[72] CHEN, XIAODONG, CN
[73] SHANGHAI YAO YUAN BIOTECHNOLOGY CO., LTD., CN
[85] 2020-04-02
[86] 2018-10-25 (PCT/CN2018/111885)
[87] (WO2019/080898)
[30] CN (PCT/CN2017/107962) 2017-10-27
[30] CN (PCT/CN2018/083153) 2018-04-16
[30] CN (PCT/CN2018/100871) 2018-08-16

[11] **3,078,443**
[13] C
[51] **Int.Cl. E21B 43/16 (2006.01) E21B 43/013 (2006.01)**
[25] EN
[54] **UNDERWATER SYSTEM AND METHOD FOR PRESSURIZATION OF AN UNDERWATER OIL RESERVOIR BY INDEPENDENT INJECTION OF WATER AND GAS**
[54] **SYSTEME SUBAQUATIQUE ET PROCEDE POUR METTRE SOUS PRESSION UN RESERVOIR DE PETROLE SUBAQUATIQUE PAR INJECTION INDEPENDANTE D'EAU ET DE GAZ**
[72] RODRIGUES, ROBERTO, BR
[72] ALBERTO BANDEIRA RIBEIRO CARDOSO, CARLOS, BR
[73] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR
[85] 2020-04-03
[86] 2018-10-05 (PCT/GB2018/052853)
[87] (WO2019/069094)
[30] BR (102017021444-3) 2017-10-06

[11] **3,078,890**
[13] C
[51] **Int.Cl. B29C 70/40 (2006.01) B64F 5/10 (2017.01) B64C 1/12 (2006.01) B64C 3/26 (2006.01) F16B 5/00 (2006.01) F16B 11/00 (2006.01) F16S 1/10 (2006.01)**
[25] EN
[54] **A METHOD OF FORMING A REINFORCED PANEL COMPONENT AND A RELATED APPARATUS**
[54] **METHODE PERMETTANT DE FORMER UNE PIECE DE PANNEAU RENFORCEE ET APPAREIL CORRESPONDANT**
[72] FERRIELL, DANIEL RICHARD, US
[72] LUCHINI, TIMOTHY J., US
[72] BELCHER, MARCUS ANTHONY, US
[73] THE BOEING COMPANY, US
[86] (3078890)
[87] (3078890)
[22] 2020-04-17
[30] US (16/517,264) 2019-07-19

[11] **3,080,777**
[13] C
[51] **Int.Cl. H03H 7/01 (2006.01) H03F 19/00 (2006.01)**
[25] EN
[54] **CRYOGENIC RADIO-FREQUENCY RESONATOR FOR SURFACE ION TRAPS**
[54] **RESONATEUR A RADIOFREQUENCES CRYOGENIQUE POUR PIEGES A IONS EN SURFACE**
[72] REED, ADAM, US
[72] SPAUN, BENJAMIN, US
[72] PRICE, ZACHARY, US
[73] HONEYWELL INTERNATIONAL INC., US
[86] (3080777)
[87] (3080777)
[22] 2020-05-11
[30] US (16/412278) 2019-05-14

[11] **3,081,231**
[13] C
[51] **Int.Cl. G01N 33/74 (2006.01) C12Q 1/6804 (2018.01) C12Q 1/6897 (2018.01) G01N 33/566 (2006.01)**
[25] EN
[54] **TEST KITS AND ASSAYS**
[54] **TROUSSES D'ESSAI ET DOSAGES**
[72] HEATHER, ALISON KAY, NZ
[72] SOWERBY, STEPHEN JOHN, NZ
[73] INSITUGEN LIMITED, NZ
[85] 2020-04-30
[86] 2018-11-02 (PCT/NZ2018/050154)
[87] (WO2019/088852)
[30] US (62/581,260) 2017-11-03
[30] US (62/614,680) 2018-01-08
[30] NZ (745713) 2018-08-27

[11] **3,081,266**
[13] C
[51] **Int.Cl. G03G 15/06 (2006.01)**
[25] EN
[54] **CARTRIDGE, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS**
[54] **CARTOUCHE, CARTOUCHE DE TRAITEMENT ET APPAREIL DE FORMATION D'IMAGE ELECTROPHOTOGRAPHIQUE**
[72] UNEME, TETSUSHI, JP
[72] SATO, MASAAKI, JP
[73] CANON KABUSHIKI KAISHA, JP
[86] (3081266)
[87] (3081266)
[22] 2016-06-03
[62] 2,987,891
[30] JP (2015-115199) 2015-06-05
[30] JP (2016-098243) 2016-05-16

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[11] **3,082,941**
[13] C
[51] **Int.Cl. B24B 7/18 (2006.01) B24B 27/00 (2006.01) B24B 41/00 (2006.01) B24B 49/08 (2006.01) B24B 49/16 (2006.01)**
[25] EN
[54] **ATTACHMENT AND HANDLING DEVICE WITH AN ATTACHMENT**
[54] **EQUIPEMENT RAPPORTE AINSI QUE DISPOSITIF DE MANIPULATION MUNI D'UN EQUIPEMENT RAPPORTE**
[72] WUERTENBERGER, CHRISTOPH, DE
[73] SCHWAMBORN GERAETEBAU GMBH, DE
[85] 2020-05-19
[86] 2018-11-19 (PCT/EP2018/081805)
[87] (WO2019/097059)
[30] DE (10 2017 127 339.5) 2017-11-20

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[11] **3,083,291**
[13] C
[51] **Int.Cl. H04W 74/0833 (2024.01)**
[25] EN
[54] **RANDOM ACCESS METHOD, USER EQUIPMENT, AND NETWORK DEVICE**
[54] **PROCEDE D'ACCES ALEATOIRE, EQUIPEMENT UTILISATEUR ET DISPOSITIF DE RESEAU**
[72] XU, HAIBO, CN
[72] CAO, ZHENZHEN, CN
[72] LI, BINGZHAO, CN
[72] YAO, CHUTING, CN
[72] ZHANG, XIANGDONG, CN
[72] WANG, JIAN, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2020-04-29
[86] 2018-09-20 (PCT/CN2018/106635)
[87] (WO2019/095843)
[30] CN (201711132847.5) 2017-11-15

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[11] **3,084,620**
[13] C
[51] **Int.Cl. G01N 33/53 (2006.01) A61M 1/34 (2006.01) A61M 1/36 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PURIFICATION OF BLOOD FROM CIRCULATING CELL FREE DNA**
[54] **PROCEDE ET DISPOSITIF POUR PURIFIER LE SANG DE L'ADN LIBRE CIRCULANT**
[72] SURKOV, KIRILL, RU
[73] SANTERSUS AG, CH
[85] 2020-04-14
[86] 2018-09-17 (PCT/EP2018/075014)
[87] (WO2019/053243)
[30] US (62/559,822) 2017-09-18

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[11] **3,084,636**
[13] C
[51] **Int.Cl. E04D 5/10 (2006.01) E04D 5/06 (2006.01)**
[25] EN
[54] **ROOFING UNDERLAYMENT WITH ENHANCED WALKABILITY AND TRACTION**
[54] **DOUBLURE INFERIEURE D`UNE TOITURE MUNIE D`UNE FONCTION AMELIOREE DE MARCHABILITE ET DE TRACTION**
[72] ROBINSON, CHRIS, US
[72] VIDO, MARTIN, CA
[72] SUN, ZHENCHAO, US
[72] WOODALL, JASON, US
[72] THAXTON, STEVE, US
[72] DIFILIPPO, SABRINA, US
[72] PRUZINSKY, STEPHANIE, US
[73] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US
[86] (3084636)
[87] (3084636)
[22] 2020-06-22
[30] US (62/865,572) 2019-06-24

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[11] **3,087,462**
[13] C
[51] **Int.Cl. G03G 15/06 (2006.01)**
[25] EN
[54] **DEVELOPER SUPPLY CONTAINER AND DEVELOPER SUPPLYING SYSTEM**
[54] **RECIPIENT DE REMPLISSAGE DE REVELATEUR ET SYSTEME DE REMPLISSAGE DE REVELATEUR**
[72] JIMBA, MANABU, JP
[72] OKINO, AYATOMO, JP
[72] MURAKAMI, KATSUYA, JP
[72] NAGASHIMA, TOSHIAKI, JP
[72] TAZAWA, FUMIO, JP
[73] CANON KABUSHIKI KAISHA, JP
[86] (3087462)
[87] (3087462)
[22] 2012-06-06
[62] 2,837,690
[30] JP (2011-126137) 2011-06-06

[11] **3,088,442**
[13] C
[51] **Int.Cl. C01B 32/19 (2017.01) C01B 32/182 (2017.01) C01B 32/184 (2017.01) B01J 2/00 (2006.01)**
[25] EN
[54] **GRAPHENE NANOPLATELETS DERIVED FROM THERMOMECHANICAL EXFOLIATION OF GRAPHITE**
[54] **NANOPLAQUETTES DE GRAPHENE ISSUES DE L'EXFOLIATION THERMOMECANIQUE DE GRAPHITE**
[72] OSAZUWA, OSAYUKI, CA
[72] KONTOPOULOU, MARIANNA, CA
[73] QUEEN'S UNVIVERSITY AT KINGSTON, CA
[85] 2020-07-14
[86] 2019-02-04 (PCT/CA2019/050138)
[87] (WO2019/148295)
[30] US (62/625,948) 2018-02-02

[11] **3,089,639**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **IMIDAZO[1,2-C]PYRIMIDINYL COMPOUNDS AS PRC2 INHIBITORS**
[54] **COMPOSES D'IMIDAZO[1,2-C]PYRIMIDINYLE COMME INHIBITEURS DE PRC2**
[72] MARX, MATTHEW ARNOLD, US
[72] LEE, MATTHEW RANDOLPH, US
[72] BOBINSKI, THOMAS P., US
[72] BURNS, AARON CRAIG, US
[72] ARORA, NIDHI, US
[72] CHRISTENSEN, JAMES GAIL, US
[72] KETCHAM, JOHN MICHAEL, US
[73] MIRATI THERAPEUTICS, INC., US
[85] 2020-07-24
[86] 2019-01-29 (PCT/US2019/015677)
[87] (WO2019/152419)
[30] US (62/624,176) 2018-01-31
[30] US (62/672,701) 2018-05-17
[30] US (62/747,736) 2018-10-19

[11] **3,090,897**
[13] C
[51] **Int.Cl. A61M 5/168 (2006.01) A61M 5/172 (2006.01)**
[25] EN
[54] **INTEGRATED SENSOR TO MONITOR FLUID DELIVERY**
[54] **CAPTEUR INTEGRE POUR SURVEILLER LA DISTRIBUTION DE FLUIDE**
[72] WALSH, TIMOTHY ADAM, US
[72] SANDMANN, CHRISTIAN, US
[73] CAREFUSION 303, INC., US
[85] 2020-08-10
[86] 2019-02-12 (PCT/US2019/017699)
[87] (WO2019/160874)
[30] US (15/896,375) 2018-02-14

[11] **3,092,737**
[13] C
[51] **Int.Cl. A24B 15/16 (2020.01) A24D 3/06 (2006.01) A24F 47/00 (2020.01)**
[25] EN
[54] **AEROSOL GENERATION**
[54] **GENERATION D'AEROSOL**
[72] HEPWORTH, RICHARD, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2020-09-01
[86] 2019-03-01 (PCT/EP2019/055179)
[87] (WO2019/166640)
[30] GB (1803424.9) 2018-03-02

[11] **3,093,357**
[13] C
[51] **Int.Cl. E21B 43/24 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR USING SUPERHEATED STEAM IN A HYDROCARBON RECOVERY PROCESS**
[54] **SYSTEME ET METHODE D'UTILISATION DE VAPEUR SUPERCHAUFFEE DANS UN PROCEDE DE RECUPERATION D'HYDROCARBURES**
[72] DONALD, ANDREW, CA
[72] RASMUSSEN, JAN, CA
[73] SUNCOR ENERGY INC., CA
[86] (3093357)
[87] (3093357)
[22] 2020-09-16

[11] **3,098,142**
[13] C
[51] **Int.Cl. H05K 9/00 (2006.01)**
[25] EN
[54] **SUPPLY STATION WITH DOOR SHIELD**
[54] **STATION D'ALIMENTATION DOTEE D'UN BLINDAGE DE PORTE**
[72] RAHILLY, MICHAEL, US
[72] FERNER, EDWARD STEPHEN, US
[72] BURGESS, BRENDAN JOHN, US
[72] RILEY, SCOTT, US
[72] JOYCE, MICHAEL DUGAN, US
[72] ARROYO, NOE, US
[72] PEDERSEN, CHRIS, US
[73] CAREFUSION 303, INC., US
[85] 2020-10-22
[86] 2019-05-02 (PCT/US2019/030378)
[87] (WO2019/217195)
[30] US (15/977,758) 2018-05-11

[11] **3,098,400**
[13] C
[51] **Int.Cl. A01B 69/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS OF WORKING A FIELD AND DETERMINING A LOCATION OF IMPLEMENTS WITHIN A FIELD**
[54] **SYSTEMES ET PROCEDES DE TRAVAIL D'UN CHAMP ET DE DETERMINATION D'UN EMPLACEMENT D'OUTILS DANS UN CHAMP**
[72] ALLGAIER, RYAN, US
[73] PRECISION PLANTING LLC, US
[85] 2020-10-26
[86] 2019-06-17 (PCT/IB2019/055021)
[87] (WO2020/016677)
[30] US (62/700,276) 2018-07-18

[11] **3,098,539**
[13] C
[51] **Int.Cl. A61B 5/107 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR DETERMINING ANIMAL BODY SURFACE AREA AND SUBSEQUENTLY DETERMING ANIMAL HEALTH STATUS**
[54] **SYSTEME ET PROCEDE DE DETERMINATION DE LA SURFACE CORPORELLE D'UN ANIMAL ET DE DETERMINATION ULTERIEURE DE L'ETAT DE SANTE D'UN ANIMAL**
[72] GEISSLER, RANDOLPH KEITH, US
[72] LEWIS, STEVEN ARTHUR, US
[73] GEISSLER COMPANIES, LLC, US
[85] 2020-10-26
[86] 2019-05-02 (PCT/US2019/030451)
[87] (WO2019/213429)
[30] US (62/665,820) 2018-05-02
[30] US (16/401,978) 2019-05-02

[11] **3,100,404**
[13] C
[51] **Int.Cl. G21K 1/093 (2006.01) A61N 5/10 (2006.01) G21K 5/04 (2006.01)**
[25] EN
[54] **A GANTRY AND APPARATUS FOR FOCUSSING BEAMS OF CHARGED PARTICLES**
[54] **PORTIQUE ET APPAREIL DE FOCALISATION DE FAISCEAUX DE PARTICULES CHARGEES**
[72] BOTTURA, LUCA, CH
[73] CERN-EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH, CH
[85] 2020-11-16
[86] 2019-05-21 (PCT/EP2019/063152)
[87] (WO2019/224215)
[30] EP (18173426.0) 2018-05-21

[11] **3,101,421**
[13] C
[51] **Int.Cl. C07J 31/00 (2006.01) A61K 31/565 (2006.01) A61K 31/58 (2006.01) A61K 31/663 (2006.01) A61P 35/00 (2006.01) A61P 35/04 (2006.01) C07J 41/00 (2006.01)**
[25] EN
[54] **PRODRUGS OF FULVESTRANT**
[54] **PROMEDICAMENTS DE FULVESTRANT**
[72] PUROHIT, PARVA YOGESHCHANDRA, IN
[72] BRAHMKSHATRIYA, PATHIK SUBHASHCHANDRA, IN
[72] GOSWAMI, VISHALGIRI GUNVANTGIRI, IN
[73] KI PHARMACEUTICALS, LLC, US
[85] 2020-11-24
[86] 2019-05-24 (PCT/IB2019/054315)
[87] (WO2019/224790)
[30] IN (201821019542) 2018-05-24
[30] IN (201821047939) 2018-12-18

[11] **3,103,228**
[13] C
[51] **Int.Cl. C08L 67/02 (2006.01) C08J 3/20 (2006.01)**
[25] EN
[54] **IMPROVED SOIL BIODEGRADABLE BLOWN FILM BAG FORMULATION**
[54] **FORMULATION AMELIOREE DE SAC A FILM SOUFFLE BIODEGRADABLE DANS LE SOL**
[72] OKAMOTO, KELVIN T., US
[72] HAWKINSON, ROBERT NEAL ALFRED, US
[73] GREEN IP, LLC, US
[85] 2020-12-09
[86] 2019-06-10 (PCT/US2019/036294)
[87] (WO2019/241111)
[30] US (62/683,103) 2018-06-11

[11] **3,103,606**
[13] C
[51] **Int.Cl. A61M 13/00 (2006.01) A61B 17/34 (2006.01)**
[25] EN
[54] **SURGICAL GAS DELIVERY DEVICE WITH INTERNAL GASEOUS SEALING MODULE AND FILTERED TUBE SET THEREFOR**
[54] **DISPOSITIF DE DISTRIBUTION DE GAZ CHIRURGICAL AVEC MODULE D'ETANCHEITE GAZEUX INTERNE ET ENSEMBLE DE TUBES FILTRES POUR CELUI-CI**
[72] SILVER, MIKIYA, US
[72] AUGELLI, MICHAEL J., US
[72] STEARNS, RALPH, US
[72] KANE, MICHAEL J., US
[73] CONMED CORPORATION, US
[85] 2020-12-11
[86] 2019-06-06 (PCT/US2019/035735)
[87] (WO2019/245745)
[30] US (16/015,462) 2018-06-22

[11] **3,104,190**
[13] C
[51] **Int.Cl. H02J 15/00 (2006.01) H01G 11/18 (2013.01) H01M 10/48 (2006.01) H02H 5/08 (2006.01) H02H 7/16 (2006.01) H02H 7/18 (2006.01)**
[25] EN
[54] **STORAGE UNIT FOR ELECTRICAL ENERGY, METHOD FOR MONITORING A STORAGE UNIT OF THIS KIND AND VEHICLE**
[54] **UNITE DE STOCKAGE D'ENERGIE ELECTRIQUE, PROCEDE DE SURVEILLANCE D'UNE TELLE UNITE DE STOCKAGE AINSI QUE VEHICULE**
[72] KLUBER, THOMAS, DE
[73] MERITOR ELECTRIC VEHICLES GERMANY GMBH, DE
[85] 2020-12-17
[86] 2019-06-12 (PCT/EP2019/065276)
[87] (WO2019/243120)
[30] EP (18178574.2) 2018-06-19

[11] **3,106,299**
[13] C
[51] **Int.Cl. C08K 5/00 (2006.01) C08J 3/20 (2006.01) C08K 5/098 (2006.01)**
[25] EN
[54] **ADDITIVE COMPOSITION AND METHOD FOR PRODUCING A POLYMER COMPOSITION USING THE SAME**
[54] **COMPOSITION D'ADDITIF ET PROCEDE DE PRODUCTION D'UNE COMPOSITION DE POLYMERE FAISANT APPEL A CELLE-CI**
[72] DOTSON, DARIN L., US
[72] XU, XIAOYOU, US
[72] FORRISTER, WALTER, US
[72] TSAI, CHI-CHUN, US
[73] MILLIKEN & COMPANY, US
[85] 2021-01-11
[86] 2019-07-22 (PCT/US2019/042820)
[87] (WO2020/023384)
[30] US (62/702,389) 2018-07-24

[11] **3,106,515**
[13] C
[51] **Int.Cl. G21F 9/12 (2006.01) G21F 9/28 (2006.01) G21F 9/30 (2006.01)**
[25] EN
[54] **METHOD FOR CONDITIONING ION EXCHANGE RESINS AND APPARATUS FOR CARRYING OUT THE METHOD**
[54] **PROCEDE DE CONDITIONNEMENT DE RESINES ECHANGEUSES D'IONS ET DISPOSITIF POUR METTRE EN OEUVRE LE PROCEDE**
[72] SEYBERT, GERT, DE
[72] LEHR, ROBERT, DE
[72] ZEILER, BERTRAM, DE
[72] SCHUBERTH, PHILIP, DE
[72] WEISS, STEFFEN, DE
[73] FRAMATOME GMBH, DE
[85] 2021-01-14
[86] 2019-11-28 (PCT/EP2019/082826)
[87] (WO2020/120143)
[30] DE (10 2018 131 902.9) 2018-12-12

[11] **3,106,860**
[13] C
[51] **Int.Cl. C07D 213/61 (2006.01) A61K 31/44 (2006.01) A61P 19/00 (2006.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01) C07C 317/32 (2006.01)**
[25] EN
[54] **1-METHYL-4-[(4-PHENYLPHENYL)SULFONYLMETHYL]CYCLOHEXANOL AND 1-METHYL-4-[[4-(2-PYRIDYL)PHENYL]SULFONYLMETHYL]CYCLOHEXANOL COMPOUNDS AND THEIR THERAPEUTIC USE**
[54] **COMPOSES DE 1-METHYLE-4-[(4-PHENYLPHENYLE)SULFONYLMETHYLE]CYCLOHEXANOL ET DE 1-METHYLE-4-[[4-(2-PYRIDYLE)PHENYLE]SULFONYLMETHYLE]CYCLOHEXANOL ET UTILISATION THERAPEUTIQUE**
[72] PATEL, LISA, GB
[72] SMITH, STEPHEN ALLAN, GB
[73] MODERN BIOSCIENCES LIMITED, GB
[85] 2021-01-19
[86] 2019-08-15 (PCT/EP2019/071917)
[87] (WO2020/035560)
[30] GB (1813312.4) 2018-08-15

[11] **3,108,164**
[13] C
[51] **Int.Cl. E21B 33/12 (2006.01)**
[25] EN
[54] **PLUGGING DEVICE**
[54] **DISPOSITIF BOUCHON**
[72] BRANDSDAL, VIGGO, NO
[72] VALESTRAND AASHEIM, GEIR, NO
[73] NINE DOWNHOLE TECHNOLOGIES, LLC, US
[86] (3108164)
[87] (3108164)
[22] 2021-02-04
[30] US (16/796,769) 2020-02-20

[11] **3,108,242**
[13] C
[51] **Int.Cl. C02F 11/14 (2019.01) C02F 1/52 (2006.01) C02F 11/12 (2019.01) G01N 27/06 (2006.01) G01N 29/02 (2006.01) C02F 1/36 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DEWATERING SLURRIES**
[54] **SYSTEMES ET PROCEDES DE DESHYDRATATION DE BOUES**
[72] ANDERSON, GREGORY, US
[72] STORM, BRANDON, US
[72] STROBEL, ANDREW, US
[72] LANOUE, COREY, US
[72] ASKELSEN, TAYTE, US
[72] WHITTOME, SAMUEL EDMUND, GB
[72] JONES, ROSS PETER, GB
[73] VERMEER MANUFACTURING COMPANY, US
[85] 2021-01-08
[86] 2018-07-18 (PCT/US2018/042592)
[87] (WO2020/013870)
[30] US (62/696,201) 2018-07-10
[30] US (PCT/US2018/041647) 2018-07-11

[11] **3,109,185**
[13] C
[51] **Int.Cl. B01J 20/22 (2006.01) A61K 31/715 (2006.01) A61K 47/10 (2017.01) A61P 3/00 (2006.01) A61P 3/04 (2006.01) C08L 3/02 (2006.01) C08L 5/00 (2006.01) C08L 5/12 (2006.01)**
[25] EN
[54] **SUPERABSORBENT MATERIALS AND METHODS OF MAKING THE SAME**
[54] **MATERIAUX SUPERABSORBANTS ET LEURS PROCEDES DE FABRICATION**
[72] SUN, LIJUN, US
[73] HEALTHALL LABORATORY, INC., US
[85] 2021-02-09
[86] 2019-08-10 (PCT/US2019/046077)
[87] (WO2020/033939)
[30] US (62/717,644) 2018-08-10

[11] **3,110,459**
[13] C
[51] **Int.Cl. B60K 1/04 (2019.01) B60L 50/50 (2019.01) B60R 16/04 (2006.01)**
[25] EN
[54] **BATTERY SYSTEM FOR HEAVY DUTY VEHICLES**
[54] **SYSTEME DE BATTERIE POUR VEHICULES UTILITAIRES LOURDS**
[72] SLOAN, TODD F., CA
[72] FORSBERG, CHRIS, CA
[72] TYERMAN, LANDON, CA
[72] COUPAL-SIKES, ERIC M., CA
[72] VAN HANEGEM, BRAD JONATHAN, CA
[73] HEXAGON PURUS NORTH AMERICA HOLDINGS INC., US
[85] 2021-02-22
[86] 2019-08-22 (PCT/US2019/047773)
[87] (WO2020/041630)
[30] US (62/722,758) 2018-08-24

[11] **3,110,492**
[13] C
[51] **Int.Cl. G01N 21/64 (2006.01)**
[25] EN
[54] **AUTONOMOUS MONITORING SYSTEM**
[54] **SYSTEME DE SURVEILLANCE AUTONOME**
[72] ISANO, TAISUKE, US
[72] LESCHINSKY, CONNOR, US
[72] ELSAGHIR, HESHAM, US
[72] PASCUAL, LEONARD, US
[72] WHEELESS, THOMAS, US
[72] RISQUE, PAUL, US
[73] CANON VIRGINIA, INC., US
[85] 2021-02-23
[86] 2019-08-28 (PCT/US2019/048602)
[87] (WO2020/047121)
[30] US (62/725,137) 2018-08-30
[30] US (62/818,432) 2019-03-14

[11] **3,111,036**
[13] C
[51] **Int.Cl. A61M 25/09 (2006.01)**
[25] EN
[54] **GUIDE WIRE JOINT**
[54] **RACCORD DE FIL DE GUIDAGE**
[72] LI, XIAOCHUN, CN
[72] XU, CHAOWEI, CN
[72] LI, CHANGQING, CN
[72] LENG, DERONG, CN
[72] LIU, CHUNJUN, CN
[73] MICRO-TECH (NANJING) CO., LTD., CN
[85] 2021-03-01
[86] 2019-07-04 (PCT/CN2019/094692)
[87] (WO2020/052331)
[30] CN (201811060589.9) 2018-09-11

[11] **3,112,727**
[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] (3112727)
[87] (3112727)
[22] 2014-02-04
[62] 3,012,813
[30] US (13/758,151) 2013-02-04

[11] **3,112,820**
[13] C
[51] **Int.Cl. H01S 5/183 (2006.01) H01S 5/065 (2006.01)**
[25] EN
[54] **ELECTRICALLY PUMPED VERTICAL CAVITY LASER**
[54] **LASER A CAVITE VERTICALE A POMPAGE ELECTRIQUE**
[72] JAYARAMAN, VIJAYSEKHAR, US
[72] SEGAL, STEPHEN, US
[72] LASCOLA, KEVIN, US
[73] THORLABS, INC., US
[73] PRAEVIUM RESEARCH, INC., US
[85] 2021-03-12
[86] 2019-10-08 (PCT/US2019/055141)
[87] (WO2020/076787)
[30] US (62/742,637) 2018-10-08

[11] **3,112,986**
[13] C
[51] **Int.Cl. C07C 59/70 (2006.01) A61K 31/192 (2006.01) A61K 38/28 (2006.01) C07C 51/43 (2006.01)**
[25] EN
[54] **ERBUMINE SALT OF TREPROSTINIL**
[54] **SEL ERBUMINE DE TREPROSTINIL**
[72] REMICK, DAVID MICHAEL, US
[73] ELI LILLY AND COMPANY, US
[85] 2021-03-16
[86] 2019-09-11 (PCT/US2019/050632)
[87] (WO2020/060823)
[30] US (62/732,799) 2018-09-18

[11] **3,114,066**
[13] C
[51] **Int.Cl. C07C 403/24 (2006.01)**
[25] EN
[54] **PURIFIED XANTHOPHYLL COMPOSITION COMPRISING (TRANS,R,R)- LUTEIN AND(TRANS,R,R)- ZEAXANTHIN AND PROCESS FOR THE PREPARATION THEREOF**
[54] **COMPOSITION DE XANTHOPHYLLE PURIFIEE COMPRENANT (TRANS,R,R)-LUTEINE ET (TRANS,R,R)-ZEAXANTHINE ET SON PROCEDE DE PREPARATION**
[72] KUMAR T.K., SUNIL, IN
[72] SAWANT, LAXMAN, IN
[72] JANGIR, MOHAN LAL, IN
[73] OMNIACTIVE HEALTH TECHNOLOGIES LIMITED, IN
[85] 2021-03-24
[86] 2019-09-21 (PCT/IB2019/058007)
[87] (WO2020/065484)
[30] IN (201821036199) 2018-09-26

[11] **3,114,093**
[13] C
[51] **Int.Cl. G01S 5/00 (2006.01) G06F 30/13 (2020.01) G01D 1/16 (2006.01) G01M 7/02 (2006.01) G02B 27/01 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR AUGMENTED VIRTUAL MODELS AND ORIENTEERING**
[54] **PROCEDE ET APPAREIL DE MODELES VIRTUELS AUGMENTES ET D'ORIENTATION**
[72] SANTARONE, MICHAEL, US
[72] WODRICH, MICHAEL, US
[72] DUFF, JASON, US
[73] MIDDLE CHART, LLC, US
[85] 2021-03-24
[86] 2019-05-20 (PCT/US2019/033134)
[87] (WO2020/068177)
[30] US (16/142,275) 2018-09-26
[30] US (16/165,517) 2018-10-19
[30] US (16/176,002) 2018-10-31
[30] US (16/249,574) 2019-01-16
[30] US (62/793,714) 2019-01-17
[30] US (16/297,383) 2019-03-08

[11] **3,114,132**
[13] C
[51] **Int.Cl. C07D 413/10 (2006.01)**
[25] EN
[54] **METHOD FOR METHYLATION OF ISOXAZOLINE-CONTAINING URACILS**
[54] **METHODE POUR LA METHYLATION D'URACILES CONTENANT DE L'ISOXAZOLINE**
[72] WU, ENMING, CN
[72] YE, YANMING, CN
[72] YU, CHUNRUI, CN
[72] YU, FUQIANG, CN
[72] XUE, YOUREN, CN
[72] YANG, JICHUN, CN
[72] WU, QIAO, CN
[72] BAI, LIPING, CN
[72] GUAN, AIYING, CN
[73] SHENYANG SINOCHEM AGROCHEMICALS R&D CO., LTD., CN
[73] JIANGSU YANGNONG CHEMICAL CO., LTD., CN
[85] 2021-03-24
[86] 2019-09-25 (PCT/CN2019/107666)
[87] (WO2020/063613)
[30] CN (201811146442.1) 2018-09-29

[11] **3,114,597**
[13] C
[51] **Int.Cl. H01R 39/58 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING THE STATUS OF ONE OR MORE COMPONENTS OF AN ELECTRICAL MACHINE**
[54] **SYSTEME ET PROCEDE POUR SURVEILLER L'ETAT D'UN OU PLUSIEURS COMPOSANT(S) D'UNE MACHINE ELECTRIQUE**
[72] CUTSFORTH, ROBERT S., US
[72] CUTSFORTH, DUSTIN L., US
[72] BRUEY, DOUGLAS CHRISTOPHER, US
[72] SCHAAF, MICHAEL LEE, US
[72] HARRISON, DAVID WILLIAM DRURY, US
[73] CUTSFORTH, INC., US
[85] 2021-03-26
[86] 2019-10-03 (PCT/US2019/054542)
[87] (WO2020/072802)
[30] US (62/741,152) 2018-10-04

[11] **3,115,723**
[13] C
[51] **Int.Cl. C08B 30/12 (2006.01) C08B 30/16 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR THE DIGESTION OF STARCH**
[54] **PROCEDE ET DISPOSITIF POUR LA DECOMPOSITION D'AMIDON**
[72] STIRN, CHRISTIAN, AT
[72] STEINDL, ROMAN, AT
[72] BARTELMUSS, KLAUS, AT
[73] PGA PUTZ-GRANITZER-ANLAGENBAU GESELLSCHAFT M.B.H., AT
[85] 2021-04-08
[86] 2019-10-08 (PCT/EP2019/077149)
[87] (WO2020/074471)
[30] AT (A 313/2018) 2018-10-08

[11] **3,116,505**
[13] C
[51] **Int.Cl. H01H 31/02 (2006.01) H01B 9/00 (2006.01) H01H 21/56 (2006.01)**
[25] EN
[54] **A CONDUCTOR FOR ELECTRICAL EQUIPMENT**
[54] **CONDUCTEUR POUR MATERIEL ELECTRIQUE**
[72] DEMISSY, DANIEL, CA
[72] BABIN, PASCAL, CA
[72] LEGER, MARTIN, CA
[72] ROLLIER, CLEMENT, CA
[72] KECHROUD, RIYAD, CA
[73] GENERAL ELECTRIC TECHNOLOGY GMBH, CH
[86] (3116505)
[87] (3116505)
[22] 2014-03-27
[62] 2,908,076
[30] FR (13 52841) 2013-03-28

[11] **3,117,090**
[13] C
[51] **Int.Cl. C12M 1/00 (2006.01) B01L 3/00 (2006.01) B01L 9/00 (2006.01) C12M 1/34 (2006.01) G01N 33/48 (2006.01) G01N 35/00 (2006.01)**
[25] EN
[54] **MULTI FUNCTION SPINNING PLATFORM**
[54] **PLATE-FORME DE CENTRIFUGATION MULTIFONCTION**
[72] BOISEN, ANJA, DK
[72] HWU, EN-TE, DK
[72] ZOR, KINGA IUDITH, SE
[72] RANJENDRAN, SRIRAM THOPPE, DK
[72] SERIOLI, LAURA, DK
[73] DANMARKS TEKNISKE UNIVERSITET, DK
[85] 2021-04-20
[86] 2019-10-24 (PCT/EP2019/079115)
[87] (WO2020/084099)
[30] EP (18202261.6) 2018-10-24

[11] **3,117,718**
[13] C
[51] **Int.Cl. H05B 3/44 (2006.01) H05B 3/10 (2006.01)**
[25] EN
[54] **HIGH-VOLTAGE CERAMIC ELECTRIC HEATING ELEMENT**
[54] **CORPS DE CHAUFFAGE ELECTRIQUE EN CERAMIQUE A HAUTE TENSION**
[72] LEIGH, PETER, CN
[73] CHONGQING LE-MARK TECHNOLOGY CO., LTD., CN
[85] 2021-04-26
[86] 2019-11-11 (PCT/CN2019/117043)
[87] (WO2020/125267)
[30] CN (201811548834.0) 2018-12-18

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[11] **3,118,044**
[13] C
[51] **Int.Cl. H04N 21/4363 (2011.01) H04N 21/43 (2011.01)**
[25] EN
[54] **SOURCE DEVICES, SINK DEVICES, METHODS AND COMPUTER PROGRAMS**
[54] **DISPOSITIF SOURCE, DISPOSITIFS COLLECTEURS, PROCEDES ET PROGRAMMES D'ORDINATEUR**
[72] KRAEGELOH, STEFAN, DE
[72] HELLER, THOMAS, DE
[72] ZEH, RINAT, DE
[72] THOMA, HERBERT, DE
[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[85] 2021-04-23
[86] 2019-10-24 (PCT/EP2019/079109)
[87] (WO2020/084095)
[30] EP (18202428.1) 2018-10-24

---

[11] **3,119,502**
[13] C
[51] **Int.Cl. A61K 31/045 (2006.01) A61K 31/05 (2006.01) A61K 31/10 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL FORMULATIONS AND COMPOSITIONS SUITABLE TO TREAT MUCOSITIS**
[54] **FORMULATIONS ET COMPOSITIONS PHARMACEUTIQUES APPROPRIEES POUR TRAITER LA MUCOSITE**
[72] ASCULAI, SAMUEL, CA
[72] HUGHES, IVOR, CA
[73] ASCULAI, SAMUEL, CA
[73] HUGHES, IVOR, CA
[85] 2021-05-10
[86] 2019-11-26 (PCT/US2019/063143)
[87] (WO2020/117546)
[30] US (62/774,527) 2018-12-03

---

[11] **3,119,810**
[13] C
[51] **Int.Cl. B64F 1/32 (2006.01) A47G 29/14 (2006.01) B64D 1/02 (2006.01) B64D 1/22 (2006.01) B66B 9/187 (2006.01) B66B 9/193 (2006.01)**
[25] EN
[54] **A DRONE DELIVERY PLATFORM TO FACILITATE DELIVERY OF PARCELS BY UNMANNED AERIAL VEHICLES**
[54] **PLATEFORME DE LIVRAISON PAR DRONE POUR FACILITER LA LIVRAISON DE COLIS PAR DES VEHICULES AERIENS SANS PILOTE**
[72] GIL, JULIO, NL
[72] GANESH, BALA, US
[72] RAMSAGER, THOMAS, US
[73] UNITED PARCEL SERVICE OF AMERICA, INC., US
[85] 2021-05-12
[86] 2019-12-06 (PCT/US2019/064933)
[87] (WO2020/118182)
[30] US (62/776,355) 2018-12-06
[30] US (16/704,967) 2019-12-05

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[11] **3,120,115**
[13] C
[51] **Int.Cl. C07C 253/30 (2006.01) A01N 37/34 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARATION OF 2,6-DICHLOROBENZONITRILE**
[54] **PROCEDE DE PREPARATION DE 2,6-DICHLOROBENZONITRILE**
[72] KATARIA, KAMAL, IN
[72] PRASAD, VIC, US
[72] LARSON, CHRISTOPHER LYNN, US
[72] GIBB, CAMERON SEATH, US
[72] DESAI, KIRIT, IN
[72] GUPTA, ASHWANI, IN
[72] SISODE, GIRISH, IN
[73] ARYSTA LIFESCIENCE INC., US
[85] 2021-05-14
[86] 2019-11-15 (PCT/US2019/061792)
[87] (WO2020/102716)
[30] US (62/768,407) 2018-11-16

---

[11] **3,120,356**
[13] C
[51] **Int.Cl. E21B 33/12 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) B22F 3/105 (2006.01) B22F 5/10 (2006.01)**
[25] EN
[54] **VARIABLE DENSITY ELEMENT RETAINER FOR USE DOWNHOLE**
[54] **DISPOSITIF DE RETENUE D'ELEMENT A DENSITE VARIABLE POUR UTILISATION EN FOND DE TROU**
[72] PELTO, CHRISTOPHER MICHAEL, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-05-18
[86] 2019-02-05 (PCT/US2019/016636)
[87] (WO2020/162883)

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[11] **3,120,851**
[13] C
[51] **Int.Cl. B60N 2/68 (2006.01) B60N 2/24 (2006.01)**
[25] EN
[54] **FRAME FOR SEATS IN PUBLIC TRANSPORT VEHICLES**
[54] **CADRE POUR SIEGES DANS DES VEHICULES DE TRANSPORT EN COMMUN**
[72] SZYMANSKI, MACIEJ, PL
[73] SZYMANSKI, MACIEJ, PL
[85] 2021-05-21
[86] 2019-11-19 (PCT/PL2019/000104)
[87] (WO2020/106166)
[30] PL (P.427882) 2018-11-23

[11] **3,121,629**
[13] C
[51] **Int.Cl. B01J 31/40 (2006.01) B01J 31/22 (2006.01) B01J 38/00 (2006.01)**
[25] EN
[54] **METHOD FOR REGENERATING WASTE ORGANIC ZINC CATALYST THROUGH SURFACE MODIFICATION**
[54] **PROCEDE DE REGENERATION D'UN CATALYSEUR DE ZINC ORGANIQUE USAGE PAR MODIFICATION DE SURFACE**
[72] KIM, SUNG KYOUNG, KR
[73] LG CHEM, LTD., KR
[85] 2021-05-31
[86] 2019-12-20 (PCT/KR2019/018250)
[87] (WO2020/130735)
[30] KR (10-2018-0167325) 2018-12-21

[11] **3,121,671**
[13] C
[51] **Int.Cl. H04N 19/50 (2014.01) H04N 19/186 (2014.01)**
[25] EN
[54] **CONTEXT-BASED INTRA PREDICTION**
[54] **PREDICTION INTRA EN FONCTION DU CONTEXTE**
[72] ZHANG, KAI, US
[72] ZHANG, LI, US
[72] LIU, HONGBIN, CN
[72] XU, JIZHENG, US
[72] WANG, YUE, CN
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[73] BYTEDANCE INC., US
[85] 2021-06-01
[86] 2019-12-05 (PCT/CN2019/123229)
[87] (WO2020/114445)
[30] CN (PCT/CN2018/119709) 2018-12-07
[30] CN (PCT/CN2018/125412) 2018-12-29
[30] CN (PCT/CN2019/070002) 2019-01-01
[30] CN (PCT/CN2019/075874) 2019-02-22
[30] CN (PCT/CN2019/075993) 2019-02-24
[30] CN (PCT/CN2019/076195) 2019-02-26
[30] CN (PCT/CN2019/079396) 2019-03-24
[30] CN (PCT/CN2019/079431) 2019-03-25
[30] CN (PCT/CN2019/079769) 2019-03-26

[11] **3,121,765**
[13] C
[51] **Int.Cl. H04L 47/263 (2022.01)**
[25] EN
[54] **USE OF DIFFERENT DATA RATES FOR POLLING IN A MULTI-RATE NETWORK**
[54] **UTILISATION DE DEBITS BINAIRES DIFFERENTS POUR INTERROGATION D'UN RESEAU A DEBITS MULTIPLES**
[72] BARTIER, JEROME, US
[72] KHALED,YACINE, US
[73] ITRON GLOBAL SARL, US
[86] (3121765)
[87] (3121765)
[22] 2021-06-09
[30] US (16/909,354) 2020-06-23

[11] **3,121,912**
[13] C
[51] **Int.Cl. C08K 5/521 (2006.01) C08K 5/5317 (2006.01) C08K 5/00 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING PHOSPHORUS-CONTAINING FLAME RETARDANTS AND THEIR USE IN POLYMER COMPOSITIONS**
[54] **PROCEDE DE PREPARATION D'AGENTS IGNIFUGES CONTENANT DU PHOSPHORE ET LEUR UTILISATION DANS DES COMPOSITIONS POLYMERES**
[72] BONYHADY, SIMON J., US
[72] LEE, JULIA YUE, US
[72] HE, QINGLIANG, US
[72] SHARMA, RAMESH, US
[73] LANXESS CORPORATION, US
[85] 2021-06-02
[86] 2019-12-18 (PCT/US2019/067184)
[87] (WO2020/132075)
[30] US (62/782,948) 2018-12-20
[30] US (62/923,446) 2019-10-18

[11] **3,122,074**
[13] C
[51] **Int.Cl. H04Q 9/00 (2006.01)**
[25] EN
[54] **BATTERY LIFE EXTENSION VIA CHANGES IN TRANSMISSION RATES**
[54] **PROLONGEMENT DE LA DUREE DE VIE D'UNE BATTERIE AU MOYEN DE MODIFICATIONS DE DEBITS DE TRANSMISSION**
[72] CORNWALL, MARK K., US
[72] KANN, JAMES LEE, US
[73] ITRON, INC., US
[85] 2021-06-03
[86] 2019-12-13 (PCT/US2019/066383)
[87] (WO2020/131642)
[30] US (16/231,145) 2018-12-21

[11] **3,122,579**
[13] C
[51] **Int.Cl. B01J 19/24 (2006.01)**
[25] EN
[54] **MULTIPLE REACTOR AND MULTIPLE ZONE POLYOLEFIN POLYMERIZATION**
[54] **POLYMERISATION DE POLYOLEFINE A MULTIPLES REACTEURS ET A ZONES MULTIPLES**
[72] CURREN, JOSEPH A., US
[72] GONZALES, REBECCA A., US
[72] KUFELD, SCOTT E., US
[72] MUTCHLER, JOEL A., US
[72] NETEMEYER, ERIC J., US
[72] SUTHERLAND, JAMIE N., US
[72] DESLAURIERS, PAUL J., US
[72] FODOR, JEFFREY S., US
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2021-06-08
[86] 2019-12-18 (PCT/US2019/067012)
[87] (WO2020/139637)
[30] US (16/234,153) 2018-12-27

[11] **3,124,410**
[13] C
[51] **Int.Cl. G21C 19/32 (2006.01) B25J 3/04 (2006.01) B25J 13/00 (2006.01)**
[25] EN
[54] **MAST APPARATUS AND METHOD OF NUCLEAR DISMANTLING**
[54] **APPAREIL DE MAT ET METHODE DE DEMANTELEMENT NUCLEAIRE**
[72] MORIKAWA, DAVID TARO, CA
[72] JOHANNESSON, MARK, CA
[73] ATS CORPORATION, CA
[86] (3124410)
[87] (3124410)
[22] 2021-03-30
[62] 3,113,627
[30] US (63/002,920) 2020-03-31

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[11] **3,124,548**
[13] C
[51] **Int.Cl. C10G 31/08 (2006.01) C10G 33/00 (2006.01) C10G 33/06 (2006.01)**
[25] EN
[54] **A METHOD FOR DESALTING PRODUCED HYDROCARBONS**
[54] **PROCEDE DE DESSALEMENT D'HYDROCARBURES PRODUITS**
[72] HAUG, INGVILD JOHANNE, NO
[72] BORRESEN, BORRE TORE, NO
[72] MEDIAAS, HEIDI, NO
[72] KUMMERNES, HEGE, NO
[72] LARSEN, IVAR OYSTEIN, NO
[73] EQUINOR ENERGY AS, NO
[85] 2021-06-21
[86] 2019-12-19 (PCT/NO2019/050286)
[87] (WO2020/130850)
[30] GB (1821093.0) 2018-12-21

---

[11] **3,124,938**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/4985 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL COMPOUND AND PHARMACEUTICAL COMPOSITION COMPRISING SAME FOR ENHANCING ANTICANCER ACTIVITY**
[54] **NOUVEAU COMPOSE ET COMPOSITION PHARMACEUTIQUE LE COMPRENANT POUR RENFORCER L'ACTIVITE ANTICANCEREUSE**
[72] PARK, KI CHEONG, KR
[72] CHEONG, JAE HO, KR
[72] KIM, SEOK MO, KR
[72] YUN, YEO JIN, KR
[72] KIM, BYEONG MO, KR
[73] HOLOSMEDIC, KR
[85] 2021-06-24
[86] 2019-12-27 (PCT/KR2019/018660)
[87] (WO2020/139044)
[30] KR (10-2018-0170842) 2018-12-27
[30] KR (10-2019-0176706) 2019-12-27

---

[11] **3,126,968**
[13] C
[51] **Int.Cl. G05B 19/048 (2006.01)**
[25] EN
[54] **OPERATION MONITORING SYSTEM AND MONITORING METHOD**
[54] **SYSTEME DE CONTROLE DE FONCTIONNEMENT ET SON PROCEDE DE CONTROLE**
[72] QIN, SHUO, CN
[72] QI, JIAYUAN, CN
[72] XU, BING, CN
[72] WU, YICHAO, CN
[73] FJ DYNAMICS TECHNOLOGY ACADEMY (CHANG ZHOU) CO., LTD, CN
[85] 2021-07-16
[86] 2019-09-18 (PCT/CN2019/106298)
[87] (WO2020/147325)
[30] CN (201910048403.6) 2019-01-18
[30] CN (201910187499.4) 2019-03-13

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[11] **3,128,331**
[13] C
[51] **Int.Cl. A61K 31/4155 (2006.01) A61K 31/4166 (2006.01) A61K 31/4439 (2006.01) A61P 5/28 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTI-ANDROGENS FOR THE TREATMENT OF METASTATIC CASTRATION-SENSITIVE PROSTATE CANCER**
[54] **ANTI-ANDROGENES POUR LE TRAITEMENT DU CANCER DE LA PROSTATE METASTATIQUE SENSIBLE A LA CASTRATION**
[72] YU, MARGARET K., US
[73] ARAGON PHARMACEUTICALS, INC., US
[85] 2021-07-29
[86] 2020-01-30 (PCT/IB2020/050752)
[87] (WO2020/157699)
[30] US (62/798,836) 2019-01-30
[30] US (62/803,096) 2019-02-08
[30] US (62/822,312) 2019-03-22
[30] US (62/833,371) 2019-04-12
[30] US (62/836,920) 2019-04-22
[30] US (62/901,694) 2019-09-17

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[11] **3,128,636**
[13] C
[51] **Int.Cl. B05B 7/28 (2006.01)**
[25] EN
[54] **CONCENTRATE CARTRIDGE WITH MEMBRANE**
[54] **CARTOUCHE DE CONCENTRE AVEC MEMBRANE**
[72] YACKO, R. BRUCE, US
[72] YACKO, CHRISTOPHER J., US
[72] SIKULA, MARTIN, US
[73] IDISPENSE, LLC, US
[86] (3128636)
[87] (3128636)
[22] 2021-08-19
[30] US (17/405,467) 2021-08-18
[30] US (63/067,677) 2020-08-19

[11] **3,129,269**
[13] C
[51] **Int.Cl. B65B 9/06 (2012.01) B65B 9/067 (2012.01) B65B 11/08 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR PRODUCING TUBULAR PACKAGES**
[54] **APPAREIL ET PROCEDES DE PRODUCTION D'EMBALLAGES TUBULAIRES**
[72] FERRIS, KEVIN, GB
[72] BORTOS, DANIEL, DE
[72] MUMAN, LEESHA, GB
[73] INTERCONTINENTAL GREAT BRANDS LLC, US
[85] 2021-08-05
[86] 2020-02-04 (PCT/IB2020/000035)
[87] (WO2020/174277)
[30] GB (GB1902604.6) 2019-02-27

[11] **3,129,417**
[13] C
[51] **Int.Cl. E05F 3/10 (2006.01) E05F 3/12 (2006.01) E05F 3/22 (2006.01)**
[25] EN
[54] **DOOR CLOSER ADJUSTMENT WITH BACKOUT PREVENTION**
[54] **AJUSTEMENT DE FERME-PORTE AVEC PREVENTION DE RETOUR**
[72] SHETTY, ADITHYA G., IN
[72] PATTAR, JONAH, M., IN
[72] JACOB, COLINS, V., IN
[72] BARBON, MITCHELL T., US
[72] TOLODAY, DAVID V., US
[72] KOESKE, PAUL, US
[73] SCHLAGE LOCK COMPANY LLC, US
[85] 2021-08-06
[86] 2020-02-10 (PCT/US2020/017472)
[87] (WO2020/163858)
[30] US (16/271,184) 2019-02-08

[11] **3,129,717**
[13] C
[51] **Int.Cl. A63C 17/12 (2006.01) A63C 17/01 (2006.01) A63C 17/08 (2006.01) G01C 19/42 (2006.01)**
[25] EN
[54] **SELF-STABILIZING SKATEBOARD**
[54] **PLANCHE A ROULETTE AUTO-STABILISATRICE**
[72] DOERKSEN, KYLE JONATHAN, US
[72] ROBERTSON, BEAU, US
[72] WOOD, DANIEL J., US
[72] DE LA RUA, JULIAN, US
[73] FUTURE MOTION, INC., US
[85] 2021-08-10
[86] 2020-01-29 (PCT/US2020/015724)
[87] (WO2020/167477)
[30] US (62/804,021) 2019-02-11
[30] US (16/298,274) 2019-03-11
[30] US (16/664,977) 2019-10-28

[11] **3,130,182**
[13] C
[51] **Int.Cl. F16J 15/32 (2016.01) F16J 15/3232 (2016.01) F16C 33/78 (2006.01)**
[25] EN
[54] **SEAL CASE WITH OVER-MOLDED RUBBER GASKET SECURING PLASTIC WAFER**
[54] **BOITIER DE JOINT D'ETANCHEITE AYANT UN JOINT EN CAOUTCHOUC SURMOULE FIXANT UNE PLAQUETTE EN PLASTIQUE**
[72] YU, XIN, US
[73] CONSOLIDATED METCO, INC., US
[85] 2021-09-10
[86] 2020-03-10 (PCT/US2020/021903)
[87] (WO2020/185787)
[30] US (62/817,471) 2019-03-12

[11] **3,130,736**
[13] C
[51] **Int.Cl. A01G 13/04 (2006.01)**
[25] EN
[54] **NANO-COATED EARTHENWARE COMPARTMENT PLANT PROTECTOR TO ENHANCE PLANT SURVIVAL AND REDUCE THE NEGATIVE EFFECTS OF THE ENVIRONMENTAL STRESSES**
[54] **PROTECTEUR DE PLANTE DE COMPARTIMENT DE TERRE CUITE NANO-REVETU POUR AMELIORER LA SURVIE DES PLANTES ET REDUIRE LES EFFETS NEGATIFS DES CONTRAINTES ENVIRONNEMENTALES**
[72] BAVI, ADEL, IR
[72] MOTIEI, AHMAD, IR
[73] BAVI, ADEL, IR
[85] 2021-08-18
[86] 2020-12-11 (PCT/IR2020/050048)
[87] (WO2021/074934)

[11] **3,130,995**
[13] C
[51] **Int.Cl. C04B 35/58 (2006.01) F01D 5/28 (2006.01) F01D 25/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS CONTAINING GALLIUM AND/OR INDIUM AND METHODS OF FORMING THE SAME**
[54] **COMPOSITIONS CONTENANT DU GALLIUM ET/OU DE L'INDIUM ET LEURS PROCEDES DE FORMATION**
[72] KIRBY, GLEN HAROLD, US
[72] WAN, JULIN, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3130995)
[87] (3130995)
[22] 2017-09-01
[62] 3,036,964
[30] US (15/267,400) 2016-09-16
[30] US (15/267,370) 2016-09-16
[30] US (15/267,335) 2016-09-16

[11] **3,131,271**
[13] C
[51] **Int.Cl. G16Z 99/00 (2019.01) G06N 20/00 (2019.01)**
[25] EN
[54] **AUTOMATED IDENTIFICATION AND USE OF BUILDING FLOOR PLAN INFORMATION**
[54] **IDENTIFICATION AUTOMATISEE ET UTILISATION DES RENSEIGNEMENTS DE PLAN D'ETAGE D'UN BATIMENT**
[72] YIN, YU, US
[72] HUTCHCROFT, WILL ADRIAN, US
[72] BOYADZHIEV, IVAYLO, US
[72] KANG, SING BING, US
[72] LI, YUJIE, US
[72] MOULON, PIERRE, US
[73] MFTB HOLDCO, INC., US
[86] (3131271)
[87] (3131271)
[22] 2021-09-17
[30] US (63/081,744) 2020-09-22

[11] **3,131,286**
[13] C
[51] **Int.Cl. H04N 19/117 (2014.01) H04N 19/124 (2014.01) H04N 19/136 (2014.01) H04N 19/176 (2014.01) H04N 19/30 (2014.01) H04N 19/82 (2014.01) H04N 19/98 (2014.01)**
[25] EN
[54] **CONSTRAINTS ON MODEL-BASED RESHAPING IN VIDEO PROCESSING**
[54] **CONTRAINTES SUR UN REMODELAGE BASE SUR UN MODELE DANS UN TRAITEMENT VIDEO**
[72] ZHANG, KAI, US
[72] ZHANG, LI, US
[72] LIU, HONGBIN, CN
[72] WANG, YUE, CN
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN
[73] BYTEDANCE INC., US
[85] 2021-08-24
[86] 2020-03-09 (PCT/CN2020/078388)
[87] (WO2020/182092)
[30] CN (PCT/CN2019/077429) 2019-03-08

[11] **3,133,154**
[13] C
[51] **Int.Cl. B65G 23/04 (2006.01)**
[25] EN
[54] **BELT CONVEYOR ROLLER WEAR LINER, BELT CONVEYOR ROLLER AND CONVEYOR INCLUDING SAME AND CORRESPONDING METHOD**
[54] **REVETEMENT D'USURE DE ROULEAU DE CONVOYEUR A COURROIE, ROULEAU DE CONVOYEUR ET CONVOYEUR LE COMPRENANT ET METHODE CORRESPONDANTE**
[72] LAFLAMME, RICHARD, CA
[72] BOIES, DAVID, CA
[73] TECHNOLOGIES ENDURIDE INC., CA
[86] (3133154)
[87] (3133154)
[22] 2021-09-30
[30] US (63/117,075) 2020-11-23

[11] **3,134,891**
[13] C
[51] **Int.Cl. A61K 39/00 (2006.01) A23K 10/30 (2016.01) A23K 20/147 (2016.01) A23K 40/30 (2016.01) A23L 33/135 (2016.01) A23L 33/18 (2016.01) A61K 9/52 (2006.01) A61K 36/04 (2006.01) A61K 38/02 (2006.01) A61K 45/00 (2006.01) A61K 47/46 (2006.01) A61P 31/00 (2006.01) C12N 1/12 (2006.01) C12N 1/13 (2006.01) C12N 15/12 (2006.01) C12N 15/62 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **DRUG DELIVERY COMPOSITION**
[54] **COMPOSITION D'ADMINISTRATION DE MEDICAMENT**
[72] FUJIWARA, TAKAYUKI, JP
[72] HIROOKA, SHUNSUKE, JP
[72] MIYAGISHIMA, SHIN-YA, JP
[72] OMATSU, TSUTOMU, JP
[73] JAPAN SCIENCE AND TECHNOLOGY AGENCY, JP
[85] 2021-09-24
[86] 2020-03-27 (PCT/JP2020/014131)
[87] (WO2020/203816)
[30] JP (2019-069029) 2019-03-29

[11] **3,135,232**
[13] C
[51] **Int.Cl. C12P 21/02 (2006.01) C12N 5/071 (2010.01) C07K 14/71 (2006.01) C07K 16/00 (2006.01) C07K 19/00 (2006.01) C12N 5/02 (2006.01) C12N 5/10 (2006.01)**
[25] EN
[54] **SERUM-FREE CELL CULTURE MEDIUM**
[54] **MILIEU DE CULTURE CELLULAIRE SANS SERUM**
[72] JOHNSON, AMY, US
[72] LAWRENCE, SHAWN, US
[72] OSHODI, SHADIA, US
[73] REGENERON PHARMACEUTICALS, INC., US
[86] (3135232)
[87] (3135232)
[22] 2014-03-14
[62] 2,906,768
[30] US (61/790,136) 2013-03-15
[30] US (14/211,245) 2014-03-14

[11] **3,135,780**
[13] C
[51] **Int.Cl. B41M 5/52 (2006.01) B41M 5/50 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVED INK RECEPTIVE SUBSTRATE**
[54] **SYSTEMES ET PROCEDES POUR UN MEILLEUR SUBSTRAT DE RECEPTION D'ENCRE**
[72] LABELLE, MICHAEL D., US
[72] MIESNER, HARRY, US
[72] LANDFRIED, ALEXIS M., US
[73] BRADY WORLDWIDE, INC., US
[85] 2021-09-30
[86] 2020-03-19 (PCT/US2020/023694)
[87] (WO2020/205268)
[30] US (62/827,385) 2019-04-01

[11] **3,136,197**
[13] C
[51] **Int.Cl. E21B 19/16 (2006.01) E21B 47/002 (2012.01) G06T 7/73 (2017.01) E21B 47/00 (2012.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR LOCATING TOOL JOINT**
[54] **APPAREIL ET METHODE DE LOCALISATION D'UN JOINT DE TIGE**
[72] RUEHMANN, RAINER, DE
[72] BRUENING, ANDREAS, DE
[73] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[85] 2021-10-05
[86] 2020-04-07 (PCT/US2020/027085)
[87] (WO2020/210242)
[30] US (16/379,142) 2019-04-09

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[11] **3,136,659**
[13] C
[51] **Int.Cl. C12N 15/90 (2006.01)**
[25] EN
[54] **STABLE TARGETED INTEGRATION**
[54] **INTEGRATION CIBLEE STABLE**
[72] BAHR, SCOTT, US
[72] JOHNS, MICHAEL, US
[72] RAVELLETTE, JAMES, US
[72] MASCARENHAS, JOAQUINA, US
[72] BORGSCHULTE, TRISSA, US
[73] SIGMA-ALDRICH CO. LLC, US
[85] 2021-10-08
[86] 2020-04-20 (PCT/US2020/028991)
[87] (WO2020/215077)
[30] US (62/835,810) 2019-04-18

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[11] **3,137,576**
[13] C
[51] **Int.Cl. G03G 15/06 (2006.01) G03G 15/08 (2006.01)**
[25] EN
[54] **DEVELOPER CONTAINER, DEVELOPING DEVICE, PROCESS UNIT, AND IMAGE FORMING APPARATUS**
[54] **RECIPIENT DE REVELATEUR, DISPOSITIF DE DEVELOPPEMENT, UNITE DE TRAITEMENT ET APPAREIL DE FORMATION D'IMAGE**
[72] KUBOTA, TOMOHIRO, JP
[72] NAKATAKE, NAOKI, JP
[72] SHIMIZU, YOSHIYUKI, JP
[72] TSURITANI, SHOH, JP
[72] HAMADA, MANABU, JP
[72] TSUJI, MASATO, JP
[72] FUJITA, MASANARI, JP
[73] RICOH COMPANY, LTD., JP
[86] (3137576)
[87] (3137576)
[22] 2012-07-27
[62] 3,040,950
[30] JP (2011-164036) 2011-07-27
[30] JP (2012-019937) 2012-02-01
[30] JP (2012-019940) 2012-02-01

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[11] **3,138,018**
[13] C
[51] **Int.Cl. E21B 33/12 (2006.01) E21B 33/13 (2006.01) E21B 34/00 (2006.01)**
[25] EN
[54] **FLAPPER ON FRAC PLUG**
[54] **CLAPET SUR BOUCHON DE FRACTURATION**
[72] NICHOLS, MATTHEW TAYLOR, US
[72] NGUYEN, NIN M., US
[72] WALTON, ZACHARY WILLIAM, US
[72] FRIPP, MICHAEL LINLEY, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2021-10-26
[86] 2020-02-26 (PCT/US2020/019930)
[87] (WO2021/040792)
[30] US (62/890,922) 2019-08-23
[30] US (16/800,342) 2020-02-25

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[11] **3,138,215**
[13] C
[51] **Int.Cl. H04N 25/57 (2023.01) G01S 17/894 (2020.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR EXTENDING IMAGE DYNAMIC RANGE USING PER-PIXEL CODING OF PIXEL PARAMETERS**
[54] **PROCEDE ET SYSTEME POUR ETENDRE UNE PLAGE DYNAMIQUE D'IMAGE A L'AIDE D'UN CODAGE PAR PIXEL DE PARAMETRES DE PIXEL**
[72] GENOV, ROMAN, CA
[72] KUTULAKOS, KIRIAKOS, CA
[72] SARHANGNEJAD, NAVID, CA
[72] GULVE, RAHUL, CA
[72] KE, HUI, CA
[73] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2021-10-27
[86] 2020-06-19 (PCT/CA2020/050858)
[87] (WO2020/252592)
[30] US (62/864,895) 2019-06-21

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[11] **3,140,593**
[13] C
[51] **Int.Cl. A47L 13/22 (2006.01) A47L 13/24 (2006.01)**
[25] EN
[54] **FLOOR CLEANING DEVICE**
[54] **DISPOSITIF DE NETTOYAGE DE SOLS**
[72] YOUDOVIN, DAVID N., US
[73] BUTLER'S BRAND, INC., US
[85] 2021-12-03
[86] 2019-08-29 (PCT/US2019/048770)
[87] (WO2020/247004)
[30] US (62/857,450) 2019-06-05

[11] **3,140,972**
[13] C
[51] **Int.Cl. A61K 31/454 (2006.01) A61K 31/444 (2006.01) A61K 31/4545 (2006.01) A61K 31/46 (2006.01) A61K 31/506 (2006.01) A61K 45/06 (2006.01) A61P 1/16 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**
[25] EN
[54] **COMBINATIONS COMPRISING BENZODIOXOL AS GLP-1R AGONISTS FOR USE IN THE TREATMENT OF NASH/NAFLD AND RELATED DISEASES**
[54] **COMBINAISONS COMPRENANT DU BENZODIOXOL EN TANT QU'AGONISTES DE GLP-1R DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DE LA NASH/NAFLD ET DE MALADIES ASSOCIEES**
[72] ASPNES, GARY E., DE
[72] BAGLEY, SCOTT W., US
[72] CURTO, JOHN M., US
[72] DOWLING, MATTHEW, US
[72] EDMONDS, DAVID JAMES, US
[72] FERNANDO, DILINIE, US
[72] FLANAGAN, MARK E., US
[72] FUTATSUGI, KENTARO, US
[72] GRIFFITH, DAVID ANDREW, US
[72] HUARD, KIM, US
[72] INGLE, GAJENDRA, US
[72] JIAO, WENHUA, US
[72] LACASSE, SHAWN M., US
[72] LIAN, YAJING, US
[72] LIMBERAKIS, CHRIS, US
[72] LONDREGAN, ALLYN T., US
[72] MATHIOWETZ, ALAN M., US
[72] PIOTROWSKI, DAVID WALTER, US
[72] RUGGERI, ROGER B., US
[72] WIGLESWORTH, KRISTIN, US
[73] PFIZER INC., US
[85] 2021-11-17
[86] 2020-05-15 (PCT/IB2020/054637)
[87] (WO2020/234726)
[30] US (62/850,133) 2019-05-20

[11] **3,141,371**
[13] C
[51] **Int.Cl. F16L 55/38 (2006.01) F16L 55/40 (2006.01)**
[25] EN
[54] **WEAR INDICATOR FOR USE WITH PIPELINE PIG COMPONENTS HAVING A PIPE WALL CONTACTING SURFACE**
[54] **INDICATEUR D'USURE DESTINE A ETRE UTILISE AVEC DES COMPOSANTS DE RACLEUR DE PIPELINE AYANT UNE SURFACE EN CONTACT AVEC UNE PAROI DE TUYAU**
[72] MORTON, JOSEPH ALAN, US
[72] HENDRICKS, ROBERT FULTON, US
[72] POE, ROGER L., US
[73] TDW DELAWARE, INC., US
[85] 2021-12-10
[86] 2020-07-14 (PCT/US2020/041961)
[87] (WO2021/011552)
[30] US (62/874,753) 2019-07-16

[11] **3,142,555**
[13] C
[51] **Int.Cl. E04H 12/34 (2006.01) B23K 7/10 (2006.01) E04H 12/16 (2006.01)**
[25] EN
[54] **METHOD FOR CUTTING TENSIONED TENSIONING MEMBERS OF A CONCRETE TOWER, CUTTING DEVICE FOR CUTTING TENSIONED TENSIONING MEMBERS OF A CONCRETE TOWER, AND USE OF A CUTTING DEVICE**
[54] **PROCEDE DE SEPARATION D'ELEMENTS PRECONTRAINTS ASSEMBLES D'UNE TOUR EN BETON, DISPOSITIF DE SEPARATION D'ELEMENTS PRECONTRAINTS ASSEMBLES D'UNE TOUR EN BETON ET UTILISATION D'UN DISPOSITIF DE SEPARATION**
[72] HARMS, JOHANN, DE
[72] IHNEN, THOMAS, DE
[72] SAATHOFF, HOLGER, DE
[73] WOBBEN PROPERTIES GMBH, DE
[85] 2021-12-02
[86] 2020-06-12 (PCT/EP2020/066262)
[87] (WO2020/254199)
[30] DE (10 2019 116 840.6) 2019-06-21

[11] **3,142,941**
[13] C
[51] **Int.Cl. H04N 19/12 (2014.01) H04N 19/107 (2014.01) H04N 19/176 (2014.01)**
[25] EN
[54] **IMAGE PROCESSING METHOD AND APPARATUS THEREFOR**
[54] **METHODE DE TRAITEMENT D'IMAGE ET APPAREIL ASSOCIE**
[72] JANG, HYEONGMOON, KR
[72] NAM, JUNGHAK, KR
[72] KIM, SEUNGHWAN, KR
[72] LIM, JAEHYUN, KR
[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
[86] (3142941)
[87] (3142941)
[22] 2017-12-27
[62] 3,049,196
[30] US (62/441,588) 2017-01-03
[30] US (62/446,535) 2017-01-16

[11] **3,143,251**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/05 (2006.01) A61N 1/372 (2006.01)**
[25] EN
[54] **SPINAL CORD STIMULATION SYSTEM DETERMINING OPTIMAL SUB-PERCEPTION THERAPY BY USING NEURAL DOSE**
[54] **SYSTEME DE STIMULATION DE LA MOELLE EPINIERE DETERMINANT UNE THERAPIE DE SOUS-PERCEPTION OPTIMALE A L'AIDE D'UNE DOSE NEURONALE**
[72] HUERTAS FERNANDEZ, ISMAEL, ES
[72] DOAN, QUE T., US
[72] MOFFITT, MICHAEL A., US
[73] BOSTON SCIENTIFIC NEUROMODULATION CORPORATION, US
[85] 2021-12-09
[86] 2020-07-01 (PCT/US2020/040529)
[87] (WO2021/003290)
[30] US (16/460,640) 2019-07-02
[30] US (16/460,655) 2019-07-02
[30] US (16/657,560) 2019-10-18
[30] US (16/738,786) 2020-01-09
[30] US (62/986,365) 2020-03-06

[11] **3,143,318**
[13] C
[51] **Int.Cl. A61K 35/74 (2015.01) A23K 10/16 (2016.01) A23K 10/18 (2016.01) A23K 20/142 (2016.01) A23L 33/135 (2016.01) A23L 33/175 (2016.01) A61K 31/198 (2006.01) A61P 1/00 (2006.01) A61P 1/04 (2006.01) A61P 31/04 (2006.01) C12N 1/20 (2006.01) C12P 13/08 (2006.01)**
[25] EN
[54] **COMPOSITION FOR PREVENTING, TREATING, OR IMPROVING GASTROINTESTINAL DISEASES COMPRISING STRAIN OF GENUS CORYNEBACTERIUM AND CULTURE THEREOF**
[54] **COMPOSITION POUR PREVENIR, TRAITER OU SOULAGER DES MALADIES GASTRO-INTESTINALES COMPRENANT UNE SOUCHE DU GENRE CORYNEBACTERIUM ET LA CULTURE DE CELLE-CI**
[72] KIM, YANG-SU, KR
[72] LEE, NAHUM, KR
[72] HONG, YOUNG GI, KR
[73] CJ CHEILJEDANG CORPORATION, KR
[85] 2021-12-13
[86] 2020-06-02 (PCT/KR2020/007169)
[87] (WO2020/251208)

[11] **3,143,781**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC VALVE WITH ASYMMETRIC LEAFLETS**
[54] **VALVE PROTHETIQUE A FEUILLETS ASYMETRIQUES**
[72] COLAVITO, KYLE W, US
[72] SHEPARD, MICHAEL J., US
[73] EDWARDS LIFESCIENCES CORPORATION, US
[85] 2022-01-12
[86] 2020-08-10 (PCT/US2020/045614)
[87] (WO2021/026531)
[30] US (62/884,559) 2019-08-08

[11] **3,144,164**
[13] C
[51] **Int.Cl. A23L 29/206 (2016.01) A23L 33/21 (2016.01) C08B 37/00 (2006.01) C08L 5/14 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHODS FOR PREPARING HEMICELLULOSE PRODUCT FROM SPENT COFFEE GROUND**
[54] **COMPOSITION ET PROCEDES DE PREPARATION DE PRODUIT D'HEMICELLULOSE A PARTIR DE MARC DE CAFE USE**
[72] PAN, LI, US
[72] POTINENI, RAJESH, US
[72] LU, YINGSHUANG, US
[72] LEE, PETER, US
[72] MUCHENA, JOHN KAILEMIA, US
[72] CHEE, CELIA, US
[73] KERRY GROUP SERVICES INTERNATIONAL LIMITED, IE
[85] 2022-01-14
[86] 2020-07-15 (PCT/EP2020/070033)
[87] (WO2021/009248)
[30] US (62/874,063) 2019-07-15
[30] US (16/689,430) 2019-11-20

[11] **3,144,747**
[13] C
[51] **Int.Cl. H02P 6/00 (2016.01) H02P 6/28 (2016.01) B25F 5/00 (2006.01) H02P 6/08 (2016.01) B25B 13/46 (2006.01)**
[25] EN
[54] **CONTROLLING BRUSHLESS MOTOR COMMUTATION**
[54] **CONTROLE DE LA COMMUTATION DE MOTEUR SANS BALAIS**
[72] RAJZER, MICHAEL T., US
[72] GENZ, JASON, US
[73] SNAP-ON INCORPORATED, US
[86] (3144747)
[87] (3144747)
[22] 2022-01-05
[30] US (17/147,205) 2021-01-12

[11] **3,145,561**
[13] C
[51] **Int.Cl. B65D 5/38 (2006.01) B65D 5/66 (2006.01) B65D 5/68 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **CONSUMER PRODUCT**
[54] **PRODUIT DE CONSOMMATION**
[72] NG PAK LEUNG, CLARA SOPHIE, BE
[72] HOEFTE, PAULUS ANTONIUS AUGUSTINUS, BE
[72] LEFLERE, JOOST, BE
[72] MARTINEZ-BECARES, ALBERTO, BE
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-01-25
[86] 2020-08-11 (PCT/US2020/070396)
[87] (WO2021/030838)
[30] EP (19191707.9) 2019-08-14
[30] EP (20189797.2) 2020-08-06

[11] **3,145,707**
[13] C
[51] **Int.Cl. G01N 27/00 (2006.01) H01J 49/26 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR ANALYSING SAMPLES OF BIOMOLECULES USING MASS SPECTROMETRY WITH DATA-INDEPENDENT ACQUISITION**
[54] **METHODE ET APPAREIL POUR ANALYSER DES ECHANTILLONS DE BIOMOLECULES AU MOYEN DE LA SPECTROMETRIE DE MASSE A L'AIDE D'UNE ACQUISITION INDEPENDANTE DES DONNEES**
[72] ZUBAREV, ROMAN, SE
[72] BEUSCH, CHRISTIAN, SE
[73] THERMO FISHER SCIENTIFIC (BREMEN) GMBH, DE
[86] (3145707)
[87] (3145707)
[22] 2022-01-13
[30] EP (21157833.1) 2021-02-18

[11] **3,145,778**
[13] C
[51] **Int.Cl. A21D 8/04 (2006.01) A21D 2/26 (2006.01) A21D 15/00 (2006.01) C12N 9/52 (2006.01)**
[25] EN
[54] **METHOD OF DOUGH RELAXATION INVOLVING ENDOPEPTIDASES**
[54] **PROCEDE DE RELAXATION DE PATE IMPLIQUANT DES ENDOPEPTIDASES**
[72] MATVEEVA, IRINA VICTOROVNA, RU
[72] PUDER, KATJA, DK
[72] AKBAR, SAJID, IN
[73] NOVOZYMES A/S, DK
[85] 2021-12-31
[86] 2020-08-05 (PCT/EP2020/071984)
[87] (WO2021/023767)
[30] IN (201941031941) 2019-08-07

[11] **3,146,027**
[13] C
[51] **Int.Cl. A47B 3/087 (2006.01) A47B 3/08 (2006.01)**
[25] EN
[54] **TWO-STAGE LOCK ASSEMBLY**
[54] **ENSEMBLE DE VERROUILLAGE A DEUX ETAGES**
[72] NYE, CURTIS S., US
[73] LIFETIME PRODUCTS, INC., US
[85] 2022-01-05
[86] 2020-07-09 (PCT/US2020/041414)
[87] (WO2021/007438)
[30] US (62/872,240) 2019-07-09
[30] US (16/923,924) 2020-07-08

[11] **3,146,493**
[13] C
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/30 (2020.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01)**
[25] EN
[54] **VAPOUR DELIVERY SYSTEMS**
[54] **SYSTEMES DE DISTRIBUTION DE VAPEUR**
[72] POTTER, MARK, GB
[72] BALL, DANIEL, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2022-01-07
[86] 2020-07-08 (PCT/GB2020/051642)
[87] (WO2021/005365)
[30] GB (1909883.9) 2019-07-10

[11] **3,146,788**
[13] C
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61P 31/04 (2006.01) C07D 401/04 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF RIDINILAZOLE AND CRYSTALLINE FORMS THEREOF**
[54] **PROCEDE DE PREPARATION DE RIDINILAZOLE ET DE FORMES CRISTALLINES DE CELUI-CI**
[72] WILSON, FRANCIS XAVIER, GB
[72] ADAMS, NIGEL, GB
[72] CARNIAUX, JEAN-FRANCOIS, GB
[73] SUMMIT (OXFORD) LIMITED, GB
[85] 2022-01-10
[86] 2020-07-16 (PCT/GB2020/051710)
[87] (WO2021/009514)
[30] GB (1910250.8) 2019-07-17
[30] GB (1912144.1) 2019-08-23

[11] **3,146,924**
[13] C
[51] **Int.Cl. H04L 69/165 (2022.01) H04W 80/06 (2009.01) H04L 41/082 (2022.01) H04L 9/40 (2022.01)**
[25] EN
[54] **EFFICIENT COMMUNICATION FOR DEVICES OF A HOME NETWORK**
[54] **COMMUNICATION EFFICACE DESTINEE A DES DISPOSITIFS DANS UN RESEAU DOMESTIQUE**
[72] ERICKSON, GRANT M., US
[72] LOGUE, JAY D., US
[72] BOROSS, CHRISTOPHER A., US
[72] SMITH, ZACHARY B., US
[72] HARDISON, OSBORNE B., US
[72] SCHULTZ, RICHARD J., US
[72] GUJJARU, SUNNY P., US
[72] NEELEY, MATTHEW G., US
[73] GOOGLE LLC, US
[86] (3146924)
[87] (3146924)
[22] 2014-06-23
[62] 3,081,957
[30] US (13/926,335) 2013-06-25

[11] **3,147,063**
[13] C
[51] **Int.Cl. B44C 5/00 (2006.01) A47G 33/00 (2006.01)**
[25] EN
[54] **ORNAMENT**
[54] **ORNEMENT**
[72] LEE, CHE-YU, TW
[73] LEE, CHE-YU, TW
[86] (3147063)
[87] (3147063)
[22] 2022-01-28
[30] CN (202122311589.5) 2021-09-24

[11] **3,147,203**
[13] C
[51] **Int.Cl. A43B 7/12 (2006.01)**
[25] EN
[54] **MOISTURE-PERMEABLE WATERPROOF SHOE**
[54] **CHAUSSURE IMPERMEABLE A L'EAU PERMEABLE A L'HUMIDITE**
[72] WANG, HUNG-JUNG, TW
[73] VESSI FOOTWEAR LTD., CA
[86] (3147203)
[87] (3147203)
[22] 2022-01-31
[30] TW (110208135) 2021-07-12

[11] **3,148,468**
[13] C
[51] **Int.Cl. C10G 1/00 (2006.01) C10G 1/04 (2006.01) E21B 21/06 (2006.01)**
[25] EN
[54] **PROCESS AND SYSTEM FOR THE ABOVE GROUND EXTRACTION OF CRUDE OIL FROM OIL BEARING MATERIALS**
[54] **PROCEDE ET SYSTEME D'EXTRACTION A CIEL OUVERT DE PETROLE BRUT A PARTIR DE MATIERES PETROLIFERES**
[72] COMFORT, CHARLES H., III, US
[72] ROGERS, TRACY D., US
[72] ROGERS, RONNIE D., US
[72] RHOTEN, AARON T., US
[72] DOYLE, MICHAEL P., US
[72] DOYLE, LELAND, US
[72] PLUNKETT, TYLER R., US
[72] COMFORT, CHARLES H., IV, US
[73] TRC OPERATING COMPANY, INC., US
[85] 2022-01-21
[86] 2020-07-23 (PCT/US2020/043341)
[87] (WO2021/016488)
[30] US (16/519,967) 2019-07-23

[11] **3,148,893**
[13] C
[51] **Int.Cl. E04G 17/06 (2006.01) E04G 11/06 (2006.01)**
[25] EN
[54] **CONCRETE FORM ASSEMBLY**
[54] **COFFRAGE A BETON**
[72] CHAPMAN, KURTIS, CA
[73] LOGIX BRANDS LTD., CA
[86] (3148893)
[87] (3148893)
[22] 2022-02-15
[30] US (17/188,618) 2021-03-01
[30] US (17/668,082) 2022-02-09

[11] **3,149,654**
[13] C
[51] **Int.Cl. C10G 65/12 (2006.01) C10G 45/02 (2006.01) C10G 45/44 (2006.01) C10G 45/54 (2006.01)**
[25] EN
[54] **FULL CONVERSION METHOD AND DEVICE FOR PRODUCING LIGHT AROMATIC HYDROCARBONS FROM LIGHT CYCLE OIL**
[54] **PROCEDE DE CONVERSION COMPLETE ET DISPOSITIF DE PRODUCTION D'HYDROCARBURES AROMATIQUES LEGERS A PARTIR DE DIESEL CATALYTIQUE**
[72] ZHENG, JUNLIN, CN
[72] JIANG, XIANGDONG, CN
[72] SONG, QI, CN
[72] KONG, DEJIN, CN
[73] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[73] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN
[85] 2022-02-02
[86] 2020-08-04 (PCT/CN2020/106710)
[87] (WO2021/023172)
[30] CN (201910715616.X) 2019-08-05

[11] **3,151,514**
[13] C
[51] **Int.Cl. H04L 43/10 (2022.01) G06F 21/56 (2013.01) G06N 20/00 (2019.01) H04W 12/128 (2021.01) H04L 9/40 (2022.01)**
[25] EN
[54] **END USER'S REMOTE DEVICE, AND SYSTEM COMPRISING SAID END USER'S REMOTE DEVICE AND SERVER**
[54] **TELECOMMANDE D'UTILISATEUR FINAL ET SYSTEME COMPRENANT LADITE TELECOMMANDE ET UN SERVEUR**
[72] YOUSSEF, MOHAMED AMINE, BE
[72] ANDRIES, GERT-JAN, BE
[72] MEUTER, CEDRIC, BE
[72] TIMMERMANS, PETER, BE
[73] INGENICO BELGIUM, BE
[85] 2022-02-16
[86] 2020-08-19 (PCT/EP2020/073151)
[87] (WO2021/037618)
[30] EP (19193499.1) 2019-08-23

[11] **3,152,344**
[13] C
[51] **Int.Cl. B26B 13/26 (2006.01) B26B 13/28 (2006.01)**
[25] EN
[54] **A CUTTING DEVICE**
[54] **DISPOSITIF DE COUPE**
[72] HEINE, MIKKO, FI
[73] FISKARS FINLAND OY AB, FI
[86] (3152344)
[87] (3152344)
[22] 2022-03-11
[30] FI (20215327) 2021-03-23

[11] **3,152,530**
[13] C
[51] **Int.Cl. B01D 29/15 (2006.01) B01D 29/19 (2006.01) B01D 35/02 (2006.01) C02F 1/00 (2006.01) F25D 23/12 (2006.01) H01R 33/74 (2006.01)**
[25] EN
[54] **FILTER BASE FOR ELECTRONIC CONNECTION TO MATING FILTER HOUSING ASSEMBLY**
[54] **BASE DE FILTRE POUR CONNEXION ELECTRONIQUE A UN ENSEMBLE BOITIER DE FILTRE D'ACCOUPLEMENT**
[72] ASTLE, ROBERT, US
[72] LAURI, GEORGE, US
[72] HUDA, STEPHEN P., US
[72] SHERMAN, MICHAEL J., US
[72] HAEHN, STEVEN J., US
[72] KLIMPEL, ERIK R., US
[72] YI, CHONG HUN, US
[72] WEAVER, BRIAN KEITH, US
[72] MOYER, WILLIAM JAMES, US
[72] SKOVIRA, RONALD, US
[72] ALTEMOSE, GARY, US
[72] EMENHEISER, RICHARD BENJAMIN, US
[72] ANNISS, WILL, US
[72] GRANT, WILLARD, US
[72] BARRIOS, RAONY, US
[72] SMALL, WILLIAM, US
[72] MACHADO, MARCELLO CORREA, US
[72] MCCOLLOUGH, THOMAS W., US
[72] ROUSEY, CHRISTOPHER, US
[72] SUBRAMANIAN, RAMESH, US
[73] KX TECHNOLOGIES LLC, US
[85] 2022-02-24
[86] 2020-09-10 (PCT/US2020/050156)
[87] (WO2021/050693)
[30] WO (PCT/US2019/051076) 2019-09-13
[30] US (16/687,214) 2019-11-18

[11] **3,154,344**
[13] C
[51] **Int.Cl. F02N 19/00 (2010.01) H01M 10/615 (2014.01) H01M 10/625 (2014.01) H01M 10/63 (2014.01) F02D 41/00 (2006.01) F02N 11/08 (2006.01)**
[25] EN
[54] **BATTERY KEY, STARTER AND IMPROVED CRANK**
[54] **CLE DE BATTERIE, DEMARREUR ET MANIVELLE AMELIOREE**
[72] BLAKE, DALLAS J., US
[72] BARCZAK, JAMES A., US
[72] HOSALUK, LAWRENCE J., US
[72] HEDLUND, DARREN J., US
[72] YOUNG, OLIVER J., GB
[72] REEVES, MATTHEW D., US
[72] THARALDSON, JOSEPH D., US
[72] DALE, CHAD A., US
[72] CRAIN, STEPHEN J., US
[72] RHODES, TREVOE F., US
[73] POLARIS INDUSTRIES INC., US
[86] (3154344)
[87] (3154344)
[22] 2018-10-02
[62] 3,078,345
[30] US (62/567,512) 2017-10-03
[30] US (16/145,475) 2018-09-28

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[11] **3,154,831**
[13] C
[51] **Int.Cl. C08L 51/08 (2006.01) C11D 3/37 (2006.01) C11D 7/26 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **PARTICULATE FABRIC CARE COMPOSITION**
[54] **COMPOSITION D'ENTRETIEN DE TISSUS PARTICULAIRE**
[72] FOSSUM, RENAE DIANNA, US
[72] GONZALEZ, LIDIANY, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2022-04-13
[86] 2020-12-17 (PCT/US2020/070920)
[87] (WO2021/127697)
[30] US (16/722,492) 2019-12-20

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[11] **3,155,115**
[13] C
[51] **Int.Cl. B25J 11/00 (2006.01) A23L 5/00 (2016.01) A47J 44/00 (2006.01) B25J 15/04 (2006.01) B25J 19/02 (2006.01)**
[25] EN
[54] **A ROBOTIC COOKING SYSTEM**
[54] **SYSTEME DE CUISSON ROBOTISE**
[72] PORUKS, JANIS, LV
[72] KORCJOMKINS, KONSTANTINS, LV
[73] ROBOEATZ, SIA, LV
[85] 2022-03-18
[86] 2020-08-28 (PCT/LV2020/050002)
[87] (WO2021/066637)
[30] LV (P-19-52) 2019-10-03

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[11] **3,155,691**
[13] C
[51] **Int.Cl. B29D 23/00 (2006.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING A THERMOFORMABLE FOAM AIR DUCT**
[54] **PROCEDE DE FABRICATION D'UN CONDUIT EN MOUSSE THERMOFORMABLE**
[72] LANTHIER, ERIC, CA
[73] HUTCHINSON AERONAUTIQUE & INDUSTRIE LIMITEE, CA
[86] (3155691)
[87] (3155691)
[22] 2022-04-15

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[11] **3,156,297**
[13] C
[51] **Int.Cl. C07F 17/00 (2006.01) C08F 4/6592 (2006.01) C08F 10/00 (2006.01)**
[25] EN
[54] **CATALYST COMPOSITION AND METHOD FOR PREPARING POLYETHYLENE**
[54] **COMPOSITION DE CATALYSEUR ET PROCEDE DE PREPARATION DE POLYETHYLENE**
[72] LIEF, GRAHAM R., US
[72] YANG, QING, US
[72] HASCHKE, ERIC, US
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US
[85] 2022-03-30
[86] 2020-09-28 (PCT/US2020/052996)
[87] (WO2021/067148)
[30] US (16/593,566) 2019-10-04

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[11] **3,156,318**
[13] C
[51] **Int.Cl. C22C 38/60 (2006.01) C21D 6/00 (2006.01) C21D 6/02 (2006.01) C21D 9/30 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/44 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01)**
[25] EN
[54] **FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF**
[54] **PIECE FORGEE EN ACIER ET SON PROCEDE DE FABRICATION**
[72] BORDEREAU, VICTOR, FR
[72] PERSEM, CAROLINE, FR
[72] LHUILLERY, MATHIEU, FR
[73] ARCELORMITTAL, LU
[85] 2022-03-30
[86] 2019-11-18 (PCT/IB2019/059868)
[87] (WO2021/099815)

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[11] **3,157,095**
[13] C
[51] **Int.Cl. H04L 12/40 (2006.01) H04L 69/40 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR HIGH INTEGRITY CAN BUS TRAFFIC SUPERVISION IN SAFETY CRITICAL APPLICATION**
[54] **PROCEDE ET SYSTEME DE SUPERVISION DE TRAFIC DE BUS CAN A INTEGRITE ELEVEE DANS UNE APPLICATION CRITIQUE DE SECURITE**
[72] GREEN, ALON, CA
[72] KANNER, ABE, CA
[72] LUNGU, MIHAI, CA
[73] GROUND TRANSPORTATION SYSTEMS CANADA INC., CA
[85] 2022-05-03
[86] 2020-12-08 (PCT/IB2020/061663)
[87] (WO2021/116921)
[30] US (62/945,675) 2019-12-09

[11] **3,158,055**
[13] C
[51] **Int.Cl. B60K 13/04 (2006.01) B60P 1/04 (2006.01) B60P 1/28 (2006.01)**
[25] EN
[54] **DUAL HEAT PATH BODY**
[54] **CARROSSERIE A DEUX VOIES THERMIQUES**
[72] REYNOLDS, FREDERICK J., US
[72] SOULE, WAYNE D., US
[73] AUSTIN ENGINEERING USA SERVICES, INC., US
[86] (3158055)
[87] (3158055)
[22] 2022-05-09
[30] US (17/738,949) 2022-05-06
[30] US (63/186,460) 2021-05-10

[11] **3,158,148**
[13] C
[51] **Int.Cl. A61K 8/36 (2006.01) A61K 8/37 (2006.01) A61K 8/41 (2006.01)**
[25] EN
[54] **SULFATE-FREE SURFACTANT SYSTEM**
[54] **SYSTEME TENSIOACTIF EXEMPT DE SULFATE**
[72] BORISH, EDWARD T., US
[72] ANDERSON, STEPHANIE, US
[73] ETHOX CHEMICALS, LLC, US
[85] 2022-04-13
[86] 2020-10-16 (PCT/US2020/055934)
[87] (WO2021/076860)
[30] US (62/923,227) 2019-10-18

[11] **3,158,242**
[13] C
[51] **Int.Cl. C07F 9/40 (2006.01) A61K 31/683 (2006.01) A61K 31/685 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **LIPOPHOSPHONOXINS, THEIR PREPARATION AND USE**
[54] **LIPOPHOSPHONOXINES, LEUR PREPARATION ET LEUR UTILISATION**
[72] REJMAN, DOMINIK, CZ
[72] POHL, RADEK, CZ
[72] MOJR, VIKTOR, CZ
[72] DO PHAM, DUY DINH, CZ
[72] KOLAR, MILAN, CZ
[72] KRASNY, LIBOR, CZ
[73] USTAV ORGANICKE CHEMIE A BIOCHEMIE AV CR, V.V.I., CZ
[73] MIKROBIOLOGICKY USTAV AV CR, V.V.I., CZ
[73] UNIVERZITA PALACKEHO V OLOMOUCI, CZ
[85] 2022-05-12
[86] 2020-12-09 (PCT/CZ2020/050095)
[87] (WO2021/115503)
[30] CZ (PV 2019-769) 2019-12-12

[11] **3,160,505**
[13] C
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC DEVICE FOR A HEART VALVE**
[54] **DISPOSITIF PROSTHETIQUE POUR UNE VALVULE CARDIAQUE**
[72] RIGHINI, GIOVANNI, CH
[72] ZANON, SARAH, CH
[73] INNOVHEART S.R.L., IT
[86] (3160505)
[87] (3160505)
[22] 2015-02-04
[62] 2,936,168
[30] IT (BO2014A000050) 2014-02-04
[30] IT (BO2015A000040) 2015-01-30

[11] **3,160,826**
[13] C
[51] **Int.Cl. H04L 12/28 (2006.01) H04L 12/12 (2006.01)**
[25] EN
[54] **A NETWORK DEVICE FOR PROVIDING REDUNDANCY IN AN INDUSTRIAL NETWORK**
[54] **DISPOSITIF DE RESEAU POUR FOURNIR UNE REDONDANCE DANS UN RESEAU INDUSTRIEL**
[72] RAHIMI MALEKSHAN, KAMAL, CA
[72] SILVER, NATHAN, CA
[72] PUSTYLNIK, MICHAEL, CA
[72] BAGLAENKO, IGOR, CA
[73] SIEMENS CANADA LIMITED, CA
[85] 2022-05-09
[86] 2019-11-11 (PCT/IB2019/001281)
[87] (WO2021/094803)

[11] **3,160,902**
[13] C
[51] **Int.Cl. G07C 15/00 (2006.01) A47F 10/00 (2006.01)**
[25] EN
[54] **LOTTERY TICKET DISPENSING METHOD AND SYSTEM WITH ADDITIONAL PURCHASE RECOMMENDATION CAPABILITY**
[54] **METHODE ET SYSTEME DE DISTRIBUTION DE BILLETS DE LOTERIE COMPRENANT UNE CAPACITE DE RECOMMANDATION D'ACHAT SUPPLEMENTAIRE**
[72] ROLFS, SUSAN EMILY, US
[72] STOVER, TODD GEORGE, US
[72] KREIDER, JACOB EZRA, US
[72] DICROCE, RICHARD COLIN, US
[72] CHRISTENSEN, KENT D., US
[73] SCIENTIFIC GAMES, LLC, US
[86] (3160902)
[87] (3160902)
[22] 2022-05-13
[30] US (17/328,468) 2021-05-24

[11] **3,163,362**
[13] C
[51] **Int.Cl. B32B 17/10 (2006.01)**
[25] EN
[54] **COMPOSITE PANE HAVING SOLAR PROTECTION COATING AND THERMAL RADIATION-REFLECTING COATING**
[54] **VITRE COMPOSITE DOTEE D'UN REVETEMENT DE PROTECTION SOLAIRE ET REVETEMENT REFLECHISSANT LES RAYONNEMENTS THERMIQUES**
[72] PENGEL, STEFANIE, DE
[72] BRONSTEIN, YAEL, FR
[72] HUHN, NORBERT, DE
[72] CAILLET, XAVIER, FR
[73] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2022-06-29
[86] 2021-03-03 (PCT/EP2021/055332)
[87] (WO2021/180544)
[30] EP (20161947.5) 2020-03-10

[11] **3,163,975**
[13] C
[51] **Int.Cl. C23F 11/18 (2006.01) C01B 25/32 (2006.01) C01B 25/45 (2006.01) C09C 1/02 (2006.01) C09D 5/08 (2006.01)**
[25] EN
[54] **PHOSPHATE-CONTAINING ANTI-CORROSIVE PIGMENT**
[54] **PIGMENT ANTICORROSION CONTENANT DU PHOSPHATE**
[72] FUTTERER, THOMAS, DE
[72] WISSEMBORSKI, RUDIGER, DE
[72] MOSCHEL, SEBASTIAN, DE
[72] MENGEL, SIEGFRIED, DE
[72] GARCIA MARTINEZ, DAVID, ES
[72] LITTERSCHEID, CHRISTIAN, DE
[72] BACH, SVEN, DE
[72] MALLMANN, STEFAN, DE
[72] ERBACH, LAURA, DE
[72] SCHOLLER, MIKEL, DE
[72] WERMTER, HENDRIK, DE
[72] FASSBENDER, BIRGIT, DE
[73] CHEMISCHE FABRIK BUDENHEIM KG, DE
[85] 2022-06-07
[86] 2020-12-07 (PCT/EP2020/084914)
[87] (WO2021/116030)
[30] DE (10 2019 134 205.8) 2019-12-12
[30] DE (10 2020 107 797.1) 2020-03-20

[11] **3,164,036**
[13] C
[51] **Int.Cl. C22C 38/38 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/06 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/32 (2006.01) C23C 2/06 (2006.01) C23C 14/14 (2006.01)**
[25] EN
[54] **COLD-ROLLED AND ANNEALED STEEL SHEET AND MANUFACTURING METHOD**
[54] **TOLE D'ACIER LAMINEE A FROID ET RECUITE ET SON PROCEDE DE FABRICATION**
[72] DRILLET, JOSEE, FR
[73] ARCELORMITTAL, LU
[85] 2022-06-03
[86] 2019-12-18 (PCT/IB2019/061000)
[87] (WO2021/123880)

[11] **3,164,855**
[13] C
[51] **Int.Cl. B32B 27/08 (2006.01) B32B 27/32 (2006.01) C08J 11/04 (2006.01)**
[25] EN
[54] **PACKAGING FILMS FROM RECYCLED PLASTICS**
[54] **FEUILLES D'EMBALLAGE EN PLASTIQUES RECYCLES**
[72] RIEKER, FRANK, DE
[73] KBG KUNSTSTOFF BETEILIGUNGEN GMBH, DE
[85] 2022-07-14
[86] 2021-01-05 (PCT/EP2021/050062)
[87] (WO2021/151627)
[30] DE (10 2020 102 459.2) 2020-01-31
[30] DE (10 2020 103 009.6) 2020-02-06
[30] DE (10 2020 103 362.1) 2020-02-11

[11] **3,165,559**
[13] C
[51] **Int.Cl. G06F 9/50 (2006.01) G06F 21/57 (2013.01) G06F 9/4401 (2018.01) H04L 41/04 (2022.01)**
[25] EN
[54] **REDUCING ATTACK SURFACE BY SELECTIVELY COLLOCATING APPLICATIONS ON HOST COMPUTERS**
[54] **REDUCTION DE SURFACE D'ATTAQUE PAR COLOCATION SELECTIVE D'APPLICATIONS SUR DES ORDINATEURS HOTES**
[72] LE, MICHAEL VU, US
[72] JAMJOOM, HANI TALAL, US
[72] MOLLOY, IAN MICHAEL, US
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-20
[86] 2021-03-17 (PCT/EP2021/056780)
[87] (WO2021/191014)
[30] US (16/827,798) 2020-03-24

[11] **3,166,039**
[13] C
[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 1PGBW33**
[54] **MAIS AUTOGAME 1PGBW33**
[72] GROTE, EDWIN MICHAEL, US
[73] PIONEER HI-BRED INTERNATIONAL, INC., US
[86] (3166039)
[87] (3166039)
[22] 2022-06-29
[30] US (17/366,086) 2021-07-02

[11] **3,167,956**
[13] C
[51] **Int.Cl. C02F 1/28 (2006.01)**
[25] EN
[54] **METHODS OF TREATING WATER WITH POWDER ACTIVATED CARBON TO REDUCE ORGANIC MATTER CONTENT**
[54] **PROCEDES DE TRAITEMENT DE L'EAU AVEC DU CHARBON ACTIF EN POUDRE POUR REDUIRE LA TENEUR EN MATIERE ORGANIQUE**
[72] GODWIN, DOUGLAS A., US
[73] CHEMTREAT, INC, US
[85] 2022-08-12
[86] 2020-12-30 (PCT/US2020/067496)
[87] (WO2021/183204)
[30] US (62/987,052) 2020-03-09

[11] **3,168,045**
[13] C
[51] **Int.Cl. D21H 17/37 (2006.01) D21H 17/41 (2006.01) D21H 17/42 (2006.01) D21H 17/44 (2006.01) D21H 17/55 (2006.01) D21H 21/20 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR MANUFACTURE OF PAPER, BOARD OR TISSUE**
[54] **COMPOSITION ET METHODE DE FABRICATION DE PAPIER, DE CARTON OU DE PAPIER MINCE**
[72] STRENGELL, KIMMO, FI
[72] KARPPI, ASKO, FI
[73] KEMIRA OYJ, FI
[85] 2022-08-15
[86] 2021-03-04 (PCT/FI2021/050156)
[87] (WO2021/176143)
[30] FI (20205241) 2020-03-06

[11] **3,169,527**
[13] C
[51] **Int.Cl. H03K 3/38 (2006.01) H03K 19/195 (2006.01)**
[25] EN
[54] **SUPERCONDUCTING LATCH SYSTEM**
[54] **SYSTEME DE VERROUILLAGE SUPRACONDUCTEUR**
[72] GALAN, ELIAS J., US
[73] NORTHROP GRUMMAN SYSTEMS CORPORATION, US
[85] 2022-08-25
[86] 2021-03-23 (PCT/US2021/023742)
[87] (WO2021/216246)
[30] US (16/857,325) 2020-04-24

[11] **3,169,558**
[13] C
[51] **Int.Cl. A01G 31/02 (2006.01)**
[25] EN
[54] **DEEP WATER CULTURE HYDROPONIC SYSTEM**
[54] **SYSTEME HYDROPONIQUE DE CULTURE A EAU PROFONDE**
[72] CAMPAU, DANIEL N., US
[72] KLOOTE, SCOTT T., US
[73] HYDRA UNLIMITED, LLC, US
[85] 2022-08-25
[86] 2021-01-29 (PCT/US2021/015671)
[87] (WO2021/211187)
[30] US (16/851,258) 2020-04-17

[11] **3,170,565**
[13] C
[51] **Int.Cl. E04B 1/00 (2006.01) E04G 21/18 (2006.01)**
[25] EN
[54] **BALCONY COMPRISING AN ACTIVATABLE BALCONY FIXING AND METHOD THEREFOR**
[54] **BALCON COMPRENANT UNE FIXATION DE BALCON ACTIVABLE ET METHODE CONNEXE**
[72] PARSONS, ANDREW, GB
[72] HILL, TIM, GB
[73] SAPPHIRE BALCONIES LIMITED, GB
[85] 2022-09-02
[86] 2020-03-03 (PCT/EP2020/055584)
[87] (WO2021/175416)

[11] **3,170,842**
[13] C
[51] **Int.Cl. C11B 3/10 (2006.01) A23D 9/00 (2006.01) A23D 9/007 (2006.01) C11B 1/08 (2006.01) C11B 1/10 (2006.01) C11B 3/00 (2006.01)**
[25] EN
[54] **HIGH-POLYPHENOL RAPESEED OIL AND PREPARATION METHOD THEREOF**
[54] **HUILE DE COLZA HAUTE EN POLYPHENOL ET METHODE DE PREPARATION**
[72] YAO, YINGZHENG, CN
[72] LIANG, QIANG, CN
[72] XIONG, WEI, CN
[72] XUAN, PU, CN
[72] XU, XIA, CN
[72] ZHAO, LING, CN
[72] LI, PU, CN
[72] LI, YANLIN, CN
[73] INSTITUTE OF AGRO-PRODUCTS PROCESSING SCIENCE AND TECHNOLOGY, SICHUAN ACADEMY OF AGRICULTURAL SCIENCES, CN
[86] (3170842)
[87] (3170842)
[22] 2022-08-18
[30] CN (202110952235.0) 2021-08-19

[11] **3,176,792**
[13] C
[51] **Int.Cl. C07K 16/46 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 16/00 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **ANTI-CD3 AND ANTI-BCMA BISPECIFIC ANTIBODIES WTH MODIFIED HEAVY CHAIN CONSTANT REGIONS**
[54] **ANTICORPS BISPECIFIQUES ANTI-CD3 ET ANTI-BCMA A REGIONS CONSTANTES DE CHAINE LOURDE MODIFIEES**
[72] HARRIS, KATHERINE, US
[72] SCHELLENBERGER, UTE, US
[72] VAFA, OMID, US
[72] TRINKLEIN, NATHAN, US
[72] VAN SCHOOTEN, WIM, US
[72] FORCE ALDRED, SHELLEY, US
[72] PHAM, DUY, US
[72] CLARKE, STARLYNN, US
[73] TENEOONE, INC., US
[85] 2022-10-25
[86] 2021-04-29 (PCT/US2021/029909)
[87] (WO2021/222578)
[30] US (63/017,589) 2020-04-29
[30] US (63/108,796) 2020-11-02

[11] **3,176,969**
[13] C
[51] **Int.Cl. A63F 13/24 (2014.01) A63F 13/23 (2014.01)**
[25] EN
[54] **PORTABLE MICRO CONTROLLER DEVICE, SYSTEM, AND METHOD OF USE**
[54] **DISPOSITIF MICROCONTROLEUR PORTATIF, SYSTEME, ET PROCEDE D'UTILISATION**
[72] MAO, DUN DUN, CA
[73] MAO, DUN DUN, CA
[85] 2022-10-26
[86] 2020-10-19 (PCT/IB2020/000870)
[87] (WO2021/224652)
[30] US (16/867,239) 2020-05-05

[11] **3,178,135**
[13] C
[51] **Int.Cl. B01D 57/02 (2006.01)**
[25] EN
[54] **SEPARATION APPARATUS FOR HIGH-LEVEL NUCLEAR WASTE**
[54] **APPAREIL DE SEPARATION POUR LES DECHETS A HAUT NIVEAU DE RADIOACTIVITE**
[72] DARDA, SHARIF ABU, CA
[72] GABER, HOSSAM, CA
[73] HANDA, JANAK H., CA
[73] GABER, HOSSAM, CA
[86] (3178135)
[87] (3178135)
[22] 2022-09-30

[11] **3,178,584**
[13] C
[51] **Int.Cl. F03B 3/04 (2006.01) F03B 11/00 (2006.01) F03B 13/12 (2006.01) F03B 17/06 (2006.01)**
[25] EN
[54] **HYDROELECTRIC ENERGY SYSTEMS, AND RELATED COMPONENTS AND METHODS**
[54] **SYSTEMES A ENERGIE HYDROELECTRIQUE, ET COMPOSANTS ET PROCEDES ASSOCIES**
[72] POWER, III, DANIEL E., US
[73] OCEANA ENERGY COMPANY, US
[86] (3178584)
[87] (3178584)
[22] 2016-10-19
[62] 3,001,696
[30] US (62/244,846) 2015-10-22

[11] **3,181,357**
[13] C
[51] **Int.Cl. G01N 33/30 (2006.01) G01N 21/3577 (2014.01)**
[25] EN
[54] **OIL DEGRADATION DIAGNOSIS DEVICE**
[54] **DISPOSITIF DE DIAGNOSTIC DE DEGRADATION D'HUILE**
[72] ONO, ICHIRO, JP
[73] MITO KOGYO CO., LTD., JP
[85] 2022-10-26
[86] 2021-10-28 (PCT/JP2021/039761)
[87] (WO2022/130795)
[30] JP (2020-207492) 2020-12-15

[11] **3,182,252**
[13] C
[51] **Int.Cl. G01N 1/28 (2006.01) A01B 79/02 (2006.01) G01N 1/08 (2006.01) G01N 1/38 (2006.01) G01N 21/25 (2006.01)**
[25] EN
[54] **AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS**
[54] **SYSTEME D'ECHANTILLONNAGE AGRICOLE ET PROCEDES ASSOCIES**
[72] SWANSON, TODD, US
[72] KOCH, DALE M., US
[72] SPLECHTER, HAYDEN, US
[72] SCHAEFER, TIMOTHY, US
[73] PRECISION PLANTING LLC., US
[86] (3182252)
[87] (3182252)
[22] 2019-07-10
[62] 3,104,255
[30] US (62/696,271) 2018-07-10
[30] US (62/729,623) 2018-09-11
[30] US (62/745,606) 2018-10-15
[30] US (62/792,987) 2019-01-16
[30] US (62/829,807) 2019-04-05
[30] US (62/860,297) 2019-06-12

[11] **3,182,405**
[13] C
[51] **Int.Cl. G01N 1/34 (2006.01) G01N 1/08 (2006.01) G01N 21/25 (2006.01) A01B 79/02 (2006.01)**
[25] EN
[54] **AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS**
[54] **SYSTEME D'ECHANTILLONNAGE AGRICOLE ET PROCEDES ASSOCIES**
[72] SWANSON, TODD, US
[72] KOCH, DALE M., US
[72] HARMAN, REID, US
[73] PRECISION PLANTING LLC, US
[86] (3182405)
[87] (3182405)
[22] 2019-07-10
[62] 3,104,255
[30] US (62/696,271) 2018-07-10
[30] US (62/729,623) 2018-09-11
[30] US (62/745,606) 2018-10-15
[30] US (62/792,987) 2019-01-16
[30] US (62/829,807) 2019-04-05
[30] US (62/860,297) 2019-06-12

[11] **3,185,308**
[13] C
[51] **Int.Cl. C01B 3/38 (2006.01) C01B 3/48 (2006.01) C01B 3/52 (2006.01)**
[25] EN
[54] **LOW CARBON HYDROGEN FUEL**
[54] **COMBUSTIBLE A BASE D'HYDROGENE A FAIBLE TENEUR EN CARBONE**
[72] CHRISTENSEN, STEFFEN SPANGSBERG, DK
[72] SAHAI, ARUNABH, IN
[72] AASBERG-PETERSEN, KIM, DK
[73] TOPSOE A/S, DK
[85] 2023-01-09
[86] 2021-08-16 (PCT/EP2021/072731)
[87] (WO2022/038090)
[30] IN (202011035430) 2020-08-17
[30] DK (PA 2020 01155) 2020-10-08

[11] **3,186,538**
[13] C
[51] **Int.Cl. H01R 13/52 (2006.01) H02J 7/00 (2006.01) H05K 5/02 (2006.01) H05K 5/03 (2006.01)**
[25] EN
[54] **COVER ASSEMBLY FOR CHARGING PORT OF ELECTRIC MACHINES**
[54] **ENSEMBLE COUVERCLE POUR ORIFICE DE CHARGEMENT DE MACHINES ELECTRIQUES**
[72] SPRINGER, STEVEN D., US
[72] GOLDWIN, NIRMAL, IN
[73] CATERPILLAR UNDERGROUND MINING PTY LTD, AU
[85] 2023-01-18
[86] 2021-07-23 (PCT/AU2021/050795)
[87] (WO2022/016228)
[30] US (16/936,651) 2020-07-23

[11] **3,188,041**
[13] C
[51] **Int.Cl. F26B 9/06 (2006.01) F26B 21/00 (2006.01) F26B 21/02 (2006.01) F26B 21/04 (2006.01) F26B 21/08 (2006.01)**
[25] EN
[54] **DEVICE FOR DRYING AND/OR DISINFECTING OBJECTS**
[54] **DISPOSITIF POUR SECHER ET/OU DESINFECTER DES OBJETS**
[72] SEIDL, ANDREAS, AT
[73] STEURER TROCKNUNGS- UND AUFBEWAHRUNGSSYSTEME GMBH, AT
[85] 2022-12-22
[86] 2021-06-02 (PCT/EP2021/064856)
[87] (WO2022/012813)
[30] DE (10 2020 118 881.1) 2020-07-16

[11] **3,190,438**
[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **DEFAULT RULES IN CONTROL CHANNEL REPETITION**
[54] **REGLES PAR DEFAUT DANS UNE REPETITION D'UN CANAL DE COMMANDE**
[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL HEJAZI, US
[72] YI, YUNJUNG, US
[72] ZHOU, HUA, US
[72] PARK, JONGHYUN, US
[73] OFINNO, LLC, US
[85] 2023-01-27
[86] 2021-08-24 (PCT/US2021/047271)
[87] (WO2022/046717)
[30] US (63/070,476) 2020-08-26

[11] **3,198,263**
[13] C
[51] **Int.Cl. C09J 103/02 (2006.01) C03C 25/321 (2018.01) C08K 5/053 (2006.01)**
[25] FR
[54] **BINDER COMPOSITION BASED ON BIOSOURCED INGREDIENTS AND USE THEREOF FOR FORMING NON-WOVEN GLASS-FIBRE WEBS**
[54] **COMPOSITION DE LIANT A BASE D'INGREDIENTS BIOSOURCES ET SON UTILISATION POUR FORMER DES VOILES NON-TISSES DE FIBRES DE VERRE**
[72] SIMONIN, LEO, FR
[73] SAINT-GOBAIN ADFORS, FR
[85] 2023-05-10
[86] 2021-11-19 (PCT/FR2021/052042)
[87] (WO2022/106789)
[30] FR (FR2011924) 2020-11-20

[11] **3,199,147**
[13] C
[51] **Int.Cl. G07C 9/30 (2020.01) G06V 20/52 (2022.01) G06V 40/20 (2022.01) G06N 3/02 (2006.01) G06N 3/08 (2023.01)**
[25] EN
[54] **AUTONOMOUS SELF-LEARNING ARTIFICIAL INTELLIGENCE INTENT SYSTEM FOR ACCESS CONTROL**
[54] **SYSTEME AUTONOME D'INTENTION D'INTELLIGENCE ARTIFICIELLE A AUTO-APPRENTISSAGE POUR COMMANDE D'ACCES**
[72] LIPCHIN, ALEKSEY, US
[72] MALAKUTI, KAVEH, CA
[72] RUSSO, PIETRO, US
[72] WILSON, RON, US
[73] MOTOROLA SOLUTIONS, INC, US
[85] 2023-05-16
[86] 2021-11-11 (PCT/US2021/072349)
[87] (WO2022/120316)
[30] US (17/108,852) 2020-12-01

[11] **3,201,408**
[13] C
[51] **Int.Cl. G06F 1/3287 (2019.01) H04W 52/02 (2009.01) H04B 1/3827 (2015.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR THROTTLING CURRENT TO PERIPHERALS**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE LIMITATION DE COURANT VERS DES PERIPHERIQUES**
[72] LEE, WAI MUN, MY
[72] WOO, TZUN CHUAN, MY
[72] BARTELS, PETER J., US
[72] ROKACH, YEHUDA, IL
[73] MOTOROLA SOLUTIONS, INC., US
[85] 2023-06-06
[86] 2021-12-07 (PCT/US2021/062142)
[87] (WO2022/140050)
[30] US (17/131,979) 2020-12-23

[11] **3,205,046**
[13] C
[51] **Int.Cl. G01N 37/00 (2006.01) G01N 35/02 (2006.01) G01N 35/04 (2006.01) G06K 7/015 (2006.01) G06K 7/14 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR READING MACHINE-READABLE LABELS ON SAMPLE RECEPTACLES**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE LIRE DES ETIQUETTES LISIBLES PAR MACHINE SUR DES RECIPIENTS D'ECHANTILLONS**
[72] HAGEN, NORBERT, US
[72] OPALSKY, DAVID, US
[72] SILBERT, ROLF, US
[73] GEN-PROBE INCORPORATED, US
[86] (3205046)
[87] (3205046)
[22] 2016-04-06
[62] 2,979,609
[30] US (62/143,963) 2015-04-07

[11] **3,205,948**
[13] C
[51] **Int.Cl. G06F 8/41 (2018.01)**
[25] EN
[54] **PREVENTING GARBAGE OBJECT ACCUMULATION ON MINIMAL RUNTIMES**
[54] **PREVENTION DE L'ACCUMULATION D'OBJETS INUTILES SUR DES TEMPS D'EXECUTION MINIMAUX**
[72] SAMUEL, MICHAEL VINCENT, US
[72] NAGRA, JASVIR, US
[73] TEMPER SYSTEMS, INC., US
[85] 2023-06-20
[86] 2021-12-21 (PCT/US2021/064529)
[87] (WO2022/140332)
[30] US (17/131,583) 2020-12-22

[11] **3,215,389**
[13] C
[51] **Int.Cl. C07C 237/10 (2006.01) A61K 9/10 (2006.01) A61K 47/00 (2006.01) A61K 47/18 (2017.01) C07C 215/14 (2006.01) C07C 229/16 (2006.01) C07C 271/20 (2006.01)**
[25] EN
[54] **IONIZABLE LIPIDS AND COMPOSITIONS FOR NUCLEIC ACID DELIVERY**
[54] **LIPIDES IONISABLES ET COMPOSITIONS POUR L'ADMINISTRATION D'ACIDES NUCLEIQUES**
[72] SONG, XIANGRONG, CN
[72] WEI, XIAWEI, CN
[72] WEI, YUQUAN, CN
[73] WESTGENE BIOPHARMA CO., LTD., CN
[85] 2023-10-12
[86] 2022-04-12 (PCT/CN2022/086310)
[87] (WO2022/218295)
[30] CN (202110396368.4) 2021-04-13

[11] **3,216,027**
[13] C
[51] **Int.Cl. B62B 5/00 (2006.01) B60R 19/02 (2006.01)**
[25] EN
[54] **BUMPER ASSEMBLY FOR A HOUSEKEEPING CART**
[54] **ENSEMBLE PARE-CHOCS POUR CHARIOT D'ENTRETIEN MENAGER**
[72] THUMA, MICHAEL, US
[72] VOGLER, MICHAEL R., US
[72] UFFNER, MICHAEL, US
[73] SUNCAST TECHNOLOGIES, LLC, US
[86] (3216027)
[87] (3216027)
[22] 2017-05-12
[62] 2,967,204
[30] US (62/335,914) 2016-05-13
[30] US (15/593,838) 2017-05-12

[11] **3,219,948**
[13] C
[51] **Int.Cl. B60R 21/38 (2011.01)**
[25] EN
[54] **PEDESTRIAN PROTECTION AUTOMOTIVE HINGE**
[54] **CHARNIERE D'AUTOMOBILE POUR PROTECTION DE PIETON**
[72] MCDONALD, GEORGE, GB
[72] CURTIS, CHESTER, GB
[72] AVERMATE, STEVEN, BE
[73] MULTIMATIC, INC., CA
[85] 2023-11-22
[86] 2022-05-25 (PCT/IB2022/054884)
[87] (WO2022/249083)
[30] DE (10 2021 205 306.8) 2021-05-25

[11] **3,221,718**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01) H05K 7/14 (2006.01)**
[25] EN
[54] **MODULAR FIBER OPTIC CASSETTE, SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE CASSETTE DE FIBRES OPTIQUES MODULAIRE**
[72] PILON, VINCENT, CA
[73] BELDEN CANADA ULC, CA
[86] (3221718)
[87] (3221718)
[22] 2018-09-27
[62] 3,019,081
[30] US (62/567,339) 2017-10-03

---

[11] **3,222,755**
[13] C
[51] **Int.Cl. B01F 23/2375 (2022.01) B01F 25/452 (2022.01) B01F 33/05 (2022.01)**
[25] EN
[54] **METHOD AND GENERATOR OF PRODUCING SOLVATED NANOCLUSTERS**
[54] **PROCEDE ET GENERATEUR DE PRODUCTION DE NANOAGREGATS SOLVATES**
[72] ENGLISH, N., GB
[73] ENGLISH, N., GB
[85] 2023-12-07
[86] 2023-04-17 (PCT/EP2023/059933)
[87] (WO2023/202990)
[30] GB (2205666.7) 2022-04-18
[30] GB (2302376.5) 2023-02-20

Canadian Applications Open to Public Inspection

June 2, 2024 to June 8, 2024

Demandes canadiennes mises à la disponibilité du public

2 juin 2024 au 8 juin 2024

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[21] **3,183,287**
[13] A1
[51] **Int.Cl. G07C 15/00 (2006.01) A63F 3/06 (2006.01)**
[25] EN
[54] **MATCH 59**
[54] **MATCH 59**
[72] MACDONELL, ALEXANDER, CA
[71] MACDONELL, ALEXANDER, CA
[22] 2022-12-05
[41] 2024-06-05

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[21] **3,183,407**
[13] A1
[51] **Int.Cl. G01N 15/00 (2024.01) G03H 1/04 (2006.01) G01N 15/0227 (2024.01)**
[25] EN
[54] **DYNAMIC NANO-DIHM FOR REAL-TIME AND IN-SITU MEASUREMENT OF PARTICLES SUCH AS VIRUSES**
[54] **NANOMICROSCOPE HOLOGRAPHIQUE NUMERIQUE EN CONDUITE (NANO-DIHM) DYNAMIQUE POUR LA MESURE EN TEMPS REEL ET SUR PLACE DE PARTICULES, PAR EXEMPLE DE VIRUS**
[72] ARIYA, PARISA A., CA
[72] PAL, DEVENDRA, CA
[71] THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY, CA
[22] 2022-12-07
[41] 2024-06-07

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[21] **3,183,464**
[13] A1
[51] **Int.Cl. E21B 33/03 (2006.01) E21B 34/02 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **LUBRICATOR FLANGE-MOUNTED CATCHER**
[54] **RECEPTEUR SUR BRIDE DE GRAISSEUR**
[72] BUTTNOR, CLINTON, CA
[72] GELDENHUYS, MATHYS, CA
[71] TIER 1 ENERGY TECH, INC., CA
[22] 2022-12-06
[41] 2024-06-06

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[21] **3,183,504**
[13] A1
[51] **Int.Cl. B25B 13/08 (2006.01) B25B 13/20 (2006.01) B25B 13/50 (2006.01) B25B 23/16 (2006.01)**
[25] EN
[54] **A PIPE WRENCH**
[54] **CLE A TUYAU**
[72] MILLER, CONNOR, CA
[71] MILLER, CONNOR, CA
[22] 2022-12-05
[41] 2024-06-05

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[21] **3,183,506**
[13] A1
[51] **Int.Cl. B66C 1/10 (2006.01) B66C 13/04 (2006.01)**
[25] EN
[54] **HOISTING APPARATUS WITH AUTOMATED LOAD LEVELING**
[54] **APPAREIL DE LEVAGE A EQUILIBRAGE DE CHARGE AUTOMATIQUE**
[72] CARTER, SHAWN, CA
[71] CARTER, SHAWN, CA
[22] 2022-12-07
[41] 2024-06-06
[30] US (18/062,120) 2022-12-06

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[21] **3,183,539**
[13] A1
[51] **Int.Cl. A45C 9/00 (2006.01) A45C 3/02 (2006.01) A45F 3/02 (2006.01) A45F 3/14 (2006.01) A45F 5/00 (2006.01)**
[25] EN
[54] **CONVERTIBLE CARRYING CASE**
[54] **MALLETTE DE TRANSPORT CONVERTIBLE**
[72] CHEUNG, PAUL KWONG SHUN, CN
[72] GUO, DINGYU, CA
[72] BEVIS, MATTHEW EDWARD, CA
[71] BRIGHT FAST INTERNATIONAL LIMITED, CN
[22] 2022-12-06
[41] 2024-06-06

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[21] **3,183,641**
[13] A1
[51] **Int.Cl. B60J 11/08 (2006.01)**
[25] EN
[54] **WINDSHIELD PROTECTION APPARATUS**
[54] **APPAREIL DE PROTECTION DE PARE-BRISE**
[72] BLACK, KEITH, CA
[71] BLACK, KEITH, CA
[22] 2022-12-07
[41] 2024-06-06
[30] US (18/062,170) 2022-12-06

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[21] **3,183,692**
[13] A1
[51] **Int.Cl. A63J 21/00 (2006.01)**
[25] EN
[54] **WET DRY PRODUCTION TUBE**
[54] **TUBE DE PRODUCTION RENFERMANT DES MATIERES SECHES ET LIQUIDES**
[72] CHOUINARD, RENE, CA
[71] CHOUINARD, RENE, CA
[22] 2022-12-08
[41] 2024-06-08

[21] **3,183,749**
[13] A1
[51] **Int.Cl. E04C 2/288 (2006.01) B28B 1/14 (2006.01) B28B 7/38 (2006.01) B28B 11/00 (2006.01) B28B 23/02 (2006.01) E04C 2/04 (2006.01) E04C 2/06 (2006.01) E04F 13/075 (2006.01) E04F 13/14 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT DECORATIVE CONCRETE PANEL**
[54] **PANNEAU DECORATIF DE BETON LEGER**
[72] REYES CINCO, VICTOR HUGO, CA
[71] REYES CINCO, VICTOR HUGO, CA
[22] 2022-12-07
[41] 2024-06-07

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[21] **3,183,785**
[13] A1
[51] **Int.Cl. B63B 35/44 (2006.01) B63B 73/00 (2020.01) B63B 7/04 (2020.01)**
[25] EN
[54] **MODULAR FLOATATION PUMP BARGE**
[54] **BARGE DE POMPAGE POUR FLOTTATION MODULAIRE**
[72] WESTRUP, JASON, CA
[71] WESTRUP, JASON, CA
[22] 2022-12-07
[41] 2024-06-07

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[21] **3,184,042**
[13] A1
[51] **Int.Cl. A61N 5/06 (2006.01) G16H 20/90 (2018.01)**
[25] EN
[54] **SYSTEM FOR PROVIDING BIO-RESONANCE THERAPY AND USE THEREOF**
[54] **SYSTEME DE THERAPIE PAR BIORESONANCE ET UTILISATION CONNEXE**
[72] DAVIS, STEPHEN, CA
[72] KING, STEVEN, CA
[71] WAVE FORCE ELECTRONICS INC., CA
[22] 2022-12-02
[41] 2024-06-02

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[21] **3,184,079**
[13] A1
[51] **Int.Cl. H10K 71/00 (2023.01) H10K 30/10 (2023.01) H10K 30/50 (2023.01) H10K 30/80 (2023.01) H10K 85/50 (2023.01)**
[25] EN
[54] **ORGANIC-INORGANIC HOLE TRANSPORT BILAYER FOR CARBON ELECTRODE PEROVSKITE SOLAR CELLS AND CARBON ELECTRODE PEROVSKITE SOLAR CELLS WITH ORGANIC-INORGANIC HOLE TRANSPORT BILAYER**
[54] **BICOUCHE DE TRANSPORT TROUEE ORGANIQUE-INORGANIQUE POUR DES PILES SOLAIRES AU PEROVSKITE ET A ELECTRODE DE CARBONE ET PILES SOLAIRES CONNEXES POSSEDANT LADITE BICOUCHE**
[72] TAN, FURUI, CN
[72] LI, YAQING, CN
[72] WANG, WANLONG, CN
[72] DONG, CHEN, CN
[71] HENAN UNIVERSITY, CN
[71] SOLAIRES ENTREPRISES INC., CA
[22] 2022-12-05
[41] 2024-06-05

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[21] **3,184,103**
[13] A1
[51] **Int.Cl. A63F 13/98 (2014.01) A63F 13/24 (2014.01)**
[25] EN
[54] **ACCESSORY USABLE WITH DIFFERENT VIDEO GAME CONTROLLERS**
[54] **ACCESSOIRE UTILISABLE AVEC DIFFERENTES MANETTES DE JEU VIDEO**
[72] DORNBUSCH, KEN, CA
[72] ALI, DARREN, CA
[71] COLLECTIVE MINDS GAMING CO. LTD., CA
[22] 2022-12-15
[41] 2024-06-07
[30] US (63/430,919) 2022-12-07

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[21] **3,184,655**
[13] A1
[51] **Int.Cl. A47G 9/02 (2006.01)**
[25] EN
[54] **SENSI POCKET**
[54] **POCHE SENSI**
[72] NELSON, JOSLIN, CA
[71] NELSON, JOSLIN, CA
[22] 2022-12-08
[41] 2024-06-08

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[21] **3,184,675**
[13] A1
[51] **Int.Cl. G09F 7/18 (2006.01) A47F 5/00 (2006.01)**
[25] EN
[54] **DISPLAY PANEL FOR WAREHOUSE SHELVING UNITS**
[54] **PANNEAU D'AFFICHAGE POUR ETAGERES EN ENTREPOT**
[72] CALON, JAMIE, CA
[72] DALSIN, MITCH PATRICK, CA
[72] GODINEZ, LEON IVAN GONZALEZ, CA
[72] TSAI, JOE KOU, CA
[71] 54BLUE COMMUNICATIONS INC., CA
[22] 2022-12-07
[41] 2024-06-07

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[21] **3,186,346**
[13] A1
[51] **Int.Cl. A41C 3/00 (2006.01) A41C 3/12 (2006.01)**
[25] EN
[54] **BRA WITH ADJUSTABLE BUILT-IN CUP SPACING**
[54] **SOUTIEN-GORGE COMPRENANT UN ESPACEMENT AJUSTABLE INTEGRE DES BONNETS**
[72] LAI, ZHENHUI, CN
[71] LAI, ZHENHUI, CN
[22] 2023-01-11
[41] 2024-06-06
[30] JP (2022-004015) 2022-12-06

[21] **3,190,952**
[13] A1
[51] **Int.Cl. F21K 9/90 (2016.01) F21S 4/10 (2016.01)**
[25] EN
[54] **CHRISTMAS LED BULB MANUFACTURING PROCESS**
[54] **PROCEDE DE FABRICATION D~AMPOULE A DEL DE NOEL**
[72] WANG, XIANGYONG, CN
[72] YANG, HONG, CN
[71] HESHAN ZHISHAN YONGCHUANG LIGHTING HARDWARE FACTORY, CN
[71] ZHONGSHAN HUWEI HARDWARE PRODUCTS CO., LTD, CN
[22] 2023-02-23
[41] 2024-06-06
[30] CN (202211578352.6) 2022-12-06

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[21] **3,198,974**
[13] A1
[51] **Int.Cl. B01D 35/28 (2006.01) B01D 46/10 (2006.01)**
[25] EN
[54] **REMOVABLE FLUE GAS STRAINER AND ASSOCIATED METHODS**
[54] **FILTRE A GAZ DE CARNEAU AMOVIBLE ET METHODES CONNEXES**
[72] ESQUIVEL, MICHAEL, US
[72] SPIELVOGEL, ETHAN, US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2023-05-05
[41] 2024-06-08
[30] US (63/386,586) 2022-12-08
[30] US (18/142,111) 2023-05-02

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[21] **3,208,186**
[13] A1
[51] **Int.Cl. H01R 13/52 (2006.01) H01R 12/51 (2011.01) H01R 13/639 (2006.01) H01R 13/73 (2006.01)**
[25] EN
[54] **TWO-PIECE MOISTURE RESISTANT LOCKING CONNECTOR WITH MULTI PIN CONNECTION**
[54] **CONNECTEUR DE VERROUILLAGE RESISTANCE A L'HUMIDITE EN DEUX MORCEAUX A CONNEXION A FICHES MULTIPLES**
[72] CORONA, SERGIO, US
[71] DSM&T COMPANY INC., US
[22] 2023-07-31
[41] 2024-06-07
[30] US (18/062,971) 2022-12-07
[30] US (18/315,610) 2023-05-11

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[21] **3,210,426**
[13] A1
[51] **Int.Cl. H01M 10/48 (2006.01) H01M 10/637 (2014.01) H01M 50/284 (2021.01) H01M 6/50 (2006.01) H01M 10/44 (2006.01) H05K 1/14 (2006.01)**
[25] EN
[54] **BATTERY PACK AND METHOD OF OPERATING THE SAME**
[54] **BLOC-BATTERIE ET METHODE D~EXPLOITATION**
[72] NGUYEN, ANH, US
[72] REMOR, JOSE, US
[72] MELING, DANIEL, US
[72] LI, SHENG PING, CN
[71] TECHTRONIC CORDLESS GP, US
[22] 2023-08-29
[41] 2024-06-05
[30] US (18/061,891) 2022-12-05

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[21] **3,211,390**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A23L 33/105 (2016.01) A23L 33/135 (2016.01)**
[25] EN
[54] **PLANT FERMENTED LIQUID, PLANT FERMENTED PRODUCT PRODUCED USING GLUCONOBACTER THAILANDICUS STRAIN AND USE THEREOF**
[54] **LIQUIDE FERMENTE DE PLANTES, PRODUIT FERMENTE DE PLANTES FABRIQUE AU MOYEN D~UNE LIGNEE DE GLUCONOBACTER THAILANDICUS ET UTILISATION CONNEXE**
[72] KIM, MIRIM, KR
[72] MUNEMITSU, FUKUSHI, JP
[72] JUNG, HAEMIN, KR
[72] CUI, HEQING, KR
[71] LG HOUSEHOLD & HEALTH CARE LTD., KR
[71] KELP INC., JP
[22] 2023-09-06
[41] 2024-06-05
[30] KR (10-2022-0167828) 2022-12-05

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[21] **3,213,105**
[13] A1
[51] **Int.Cl. B64C 13/28 (2006.01) B64C 5/00 (2006.01)**
[25] EN
[54] **LOWER ATTACHMENT FOR TRIMMABLE HORIZONTAL STABILISER ACTUATOR**
[54] **FIXATION INFERIEURE POUR UN ACTIONNEUR DE STABILISATEUR HORIZONTAL AJUSTABLE**
[72] ABDUL BARI, ANH VU, FR
[72] MEDINA, RAPHAEL, FR
[71] GOODRICH ACTUATION SYSTEMS SAS, FR
[22] 2023-09-19
[41] 2024-06-07
[30] EP (22306810.7) 2022-12-07

[21] **3,214,168**
[13] A1
[51] **Int.Cl. F16H 25/18 (2006.01) F16H 25/22 (2006.01) H02K 7/10 (2006.01) H02K 7/116 (2006.01) H02K 7/14 (2006.01)**
[25] EN
[54] **LINEAR ACTUATOR**
[54] **ACTIONNEUR LINEAIRE**
[72] MOLINELLI, DARIO, IT
[71] MICROTECNICA S.R.L., IT
[22] 2023-09-26
[41] 2024-06-06
[30] EP (22425058.9) 2022-12-06

[21] **3,214,689**
[13] A1
[51] **Int.Cl. G06F 11/07 (2006.01) G06F 21/50 (2013.01) G06F 11/30 (2006.01) G06F 11/34 (2006.01)**
[25] EN
[54] **ENTITY COMPONENT SYSTEM UTILIZATION FOR DATA CENTER AND HARDWARE PERFORMANCE ANALYTICS**
[54] **UTILISATION D~UN SYSTEME ENTITE-COMPOSANT POUR UN CENTRE DE DONNEES ET L~ANALYSE DE RENDEMENT DU MATERIEL**
[72] PODOLSKI, PETER, US
[72] CHIRICHIELLO, STEFFEN, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[22] 2023-09-29
[41] 2024-06-05
[30] US (18/061,787) 2022-12-05

[21] **3,214,824**
[13] A1
[51] **Int.Cl. H01R 13/52 (2006.01) H01R 12/51 (2011.01) F21V 27/02 (2006.01) F21V 31/00 (2006.01) H01R 13/405 (2006.01) H01R 13/502 (2006.01)**
[25] EN
[54] **TWO-PIECE MOISTURE RESISTANT LOCKING CONNECTOR WITH MULTI PIN CONNECTION**
[54] **CONNECTEUR DE VERROUILLAGE RESISTANCE A L'HUMIDITE EN DEUX MORCEAUX A CONNEXION A FICHES MULTIPLES**
[72] CORONA, SERGIO, US
[71] DSM&T COMPANY INC., US
[22] 2023-09-29
[41] 2024-06-07
[30] US (18/062,971) 2022-12-07

[21] **3,215,424**
[13] A1
[51] **Int.Cl. H04N 13/246 (2018.01)**
[25] EN
[54] **PROVISION OF REAL WORLD AND IMAGE SENSOR CORRESPONDENCE POINTS FOR USE IN CALIBRATION OF AN IMAGING SYSTEM FOR THREE DIMENSIONAL IMAGING BASED ON LIGHT TRIANGULATION**
[54] **FOURNITURE DE POINTS DE CORRESPONDANCE ENTRE LE MONDE REEL ET LE CAPTEUR D'IMAGE POUR L~ETALONNAGE D~UN SYSTEME D~IMAGERIE 3D FONDE SUR LA TRIANGULATION DE LA LUMIERE**
[72] RYDSTROM, DANIEL, SE
[71] SICK IVP AB, SE
[22] 2023-10-04
[41] 2024-06-02
[30] EP (22211198.1) 2022-12-02

[21] **3,215,645**
[13] A1
[51] **Int.Cl. F23R 3/16 (2006.01) F23C 3/00 (2006.01) F23M 9/00 (2006.01)**
[25] EN
[54] **COMBUSTOR**
[54] **CHAMBRE DE COMBUSTION**
[72] O'DONNELL, MICHAEL J., US
[71] BECKETT THERMAL SOLUTIONS, US
[22] 2023-10-04
[41] 2024-06-07
[30] US (63/430,693) 2022-12-07

[21] **3,215,897**
[13] A1
[25] EN
[54] **SECURITY SCHEME FOR IDENTIFICATION TAGS**
[54] **SCHEMA DE SECURITE POUR DES ETIQUETTES D~IDENTIFICATION**
[72] RYG, JAMES, US
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US
[22] 2023-10-10
[41] 2024-06-05
[30] US (18/075,287) 2022-12-05

[21] **3,216,573**
[13] A1
[51] **Int.Cl. E06B 9/68 (2006.01) E06B 9/58 (2006.01)**
[25] EN
[54] **QUICKLY-ASSEMBLED ELECTRIC SUNSHADE CURTAIN**
[54] **RIDEAU PARE-SOLEIL ELECTRIQUE A ASSEMBLAGE RAPIDE**
[72] JIANG, CHUN, CN
[71] NINGBO SUNFREE MOTOR TECHNOLOGY COMPANY LIMITED, CN
[22] 2023-10-16
[41] 2024-06-07
[30] CN (202211567121.5) 2022-12-07

[21] **3,217,552**
[13] A1
[51] **Int.Cl. G06F 30/3308 (2020.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR SIMULATING AN ELECTRICAL CIRCUIT, DIGITAL REAL-TIME SIMULATOR, COMPUTER PROGRAM AND COMPUTER-READABLE MEDIUM**
[54] **METHODE ET APPAREIL POUR SIMULER UN CIRCUIT ELECTRIQUE, SIMULATEUR NUMERIQUE EN TEMPS REEL, PROGRAMME INFORMATIQUE ET SUPPORT LISIBLE PAR ORDINATEUR**
[72] ALLMELING, JOST, CH
[71] PLEXIM GMBH, CH
[22] 2023-10-23
[41] 2024-06-08
[30] EP (22212271.5) 2022-12-08

[21] **3,218,558**
[13] A1
[51] **Int.Cl. B60T 13/66 (2006.01) B60T 1/087 (2006.01) B60T 11/28 (2006.01) B60T 13/24 (2006.01) B60T 13/26 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FAILSAFE OPERATION OF A TRACTOR PROTECTION CONTROL MODULE**
[54] **SYSTEME ET METHODE D~EXPLOITATION A SECURITE INTEGREE D~UN MODULE DE COMMANDE DE PROTECTION DE TRACTEUR**
[72] HURLEY, RYAN S., US
[72] SALVATORA, RANDY J., US
[72] SASMAL, SUBASHISH, US
[72] HOBAN, EDWARD F., US
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US
[22] 2023-10-31
[41] 2024-06-08
[30] US (18/077641) 2022-12-08

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[21] **3,218,621**
[13] A1
[51] **Int.Cl. F16F 9/32 (2006.01) B64C 25/22 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO IMPROVE SHOCK STRUT PERFORMANCE**
[54] **SYSTEMES ET METHODES POUR AMELIORER LE RENDEMENT D~UN ARMOTISSEUR**
[72] BODKI, BASAVARAJ, IN
[72] MN, HEMANTH, IN
[71] GOODRICH CORPORATION, US
[22] 2023-11-01
[41] 2024-06-05
[30] IN (202241070155) 2022-12-05
[30] US (18/099,124) 2023-01-19

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[21] **3,218,644**
[13] A1
[51] **Int.Cl. F16B 21/08 (2006.01) B64C 25/18 (2006.01) F16B 19/00 (2006.01)**
[25] EN
[54] **SELF-LOCKING BUSHINGS**
[54] **BAGUES AUTOBLOQUANTES**
[72] WILLIAMSON, JAMES KEITH, US
[71] GOODRICH CORPORATION, US
[22] 2023-11-01
[41] 2024-06-07
[30] US (18/077,011) 2022-12-07

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[21] **3,218,685**
[13] A1
[51] **Int.Cl. C25B 15/02 (2021.01) C25B 9/15 (2021.01) C25B 9/63 (2021.01) C25B 9/65 (2021.01) C02F 1/461 (2006.01) C02F 1/467 (2006.01) C25B 1/26 (2006.01) C25B 11/04 (2021.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR PREVENTING SCALE**
[54] **DISPOSITIF, SYSTEME ET METHODE POUR PREVENIR LE CALAMINAGE**
[72] GHORBANIYAN, MASOUD, NO
[72] VARANKO, YURY, NO
[71] GRANT PRIDECO, INC, US
[22] 2023-11-02
[41] 2024-06-06
[30] EP (22211659.2) 2022-12-06

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[21] **3,218,700**
[13] A1
[51] **Int.Cl. B64D 45/00 (2006.01) B64C 25/00 (2006.01) B64C 25/60 (2006.01) F16F 9/32 (2006.01) G07C 5/08 (2006.01)**
[25] EN
[54] **AIRCRAFT HARD LANDING INDICATOR**
[54] **INDICATEUR D~ATTERRISSAGE DUR D~AERONEF**
[72] MN, HEMANTH, IN
[72] BODKI, BASAVARAJ, IN
[71] GOODRICH CORPORATION, US
[22] 2023-11-01
[41] 2024-06-05
[30] IN (202241070156) 2022-12-05
[30] US (18/115,159) 2023-02-28

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[21] **3,218,726**
[13] A1
[51] **Int.Cl. G08G 1/017 (2006.01) G08G 1/015 (2006.01)**
[25] FR
[54] **METHOD FOR CREATING AN IMAGE DOCUMENT**
[54] **PROCEDE DE GENERATION D'UN DOCUMENT D'IMAGE**
[72] GUIDON, ERIC, FR
[72] DOMINGUES, JONATHAN, FR
[72] HARBI, RACHID, FR
[72] ALLIOT, SAMUEL, FR
[71] IDEMIA IDENTITY & SECURITY FRANCE, FR
[22] 2023-11-03
[41] 2024-06-07
[30] FR (FR2212874) 2022-12-07

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[21] **3,218,939**
[13] A1
[51] **Int.Cl. E05D 15/24 (2006.01) E05D 13/00 (2006.01) E05D 15/20 (2006.01) E05D 15/22 (2006.01) E06B 9/58 (2006.01)**
[25] EN
[54] **STABILIZATION ROLLER BRACKET FOR LONG ROLLER STEMS OF A MOVABLE BARRIER**
[54] **SUPPORT DE GALET DE STABILISATION POUR DE LONGUES TIGES A GALET D~UNE BARRIERE MOBILE**
[72] KORNISH, DWAYNE J., US
[72] PREISING, DANNY L., US
[71] OVERHEAD DOOR CORPORATION, US
[22] 2023-11-06
[41] 2024-06-05
[30] US (18/075,227) 2022-12-05

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[21] **3,219,773**
[13] A1
[51] **Int.Cl. E05B 17/22 (2006.01) E05B 47/00 (2006.01) E05B 55/00 (2006.01) H02K 7/14 (2006.01) H02P 31/00 (2006.01)**
[25] EN
[54] **ELECTRIC LOCK AND CONTROL METHOD THEREOF**
[54] **VERROU ELECTRIQUE ET METHODE DE COMMANDE**
[72] SHIH, I-CHANG, TW
[72] LU, SHIH-MIN, TW
[72] CHANG, PI-SHUN, TW
[72] LIN, YEN-TANG, TW
[71] TAIWAN FU HSING INDUSTRIAL CO., LTD., CN
[22] 2023-11-09
[41] 2024-06-02
[30] TW (111146386) 2022-12-02

[21] **3,219,817**
[13] A1
[51] **Int.Cl. C09D 5/00 (2006.01) C09D 7/63 (2018.01) C09D 7/65 (2018.01) C09D 201/10 (2006.01) E04B 1/64 (2006.01)**
[25] EN
[54] **REMOVABLE MOISTURE BARRIER**
[54] **BARRIERE D'ETANCHEITE AMOVIBLE**
[72] ZAREMBA, ANDREW, US
[72] BOLT, WHITNEY, US
[72] DDAMULIRA, ROBERT K., US
[71] AMERICAN SEALANTS, INC., US
[22] 2023-11-13
[41] 2024-06-02
[30] US (63/385,802) 2022-12-02

[21] **3,219,891**
[13] A1
[51] **Int.Cl. B60W 50/04 (2006.01) B60W 50/14 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHOD FOR IDENTIFYING TRACTORS ASSOCIATED WITH FAULTS AT A TRAILER OR DOLLY**
[54] **SYSTEMES ET METHODE DE REMORQUE OU DE CHARIOT POUR CERNER LES TRACTEURS ASSOCIES A DES DEFAILLANCES**
[72] TENORIO, STEPHANIA LOPEZ, DE
[72] FRASHURE, ANNA F., US
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US
[22] 2023-11-13
[41] 2024-06-02
[30] US (18/073978) 2022-12-02

[21] **3,220,171**
[13] A1
[51] **Int.Cl. H01M 4/131 (2010.01) H01M 4/1315 (2010.01) H01M 4/1391 (2010.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **POSITIVE ACTIVE MATERIAL FOR RECHARGEABLE LITHIUM BATTERIES, PREPARATION METHOD THEREOF AND RECHARGEABLE LITHIUM BATTERIES INCLUDING THE SAME**
[54] **MATIERE ACTIVE POSITIVE POUR BATTERIES RECHARGEABLES AU LITHIUM, METHODE DE PREPARATION ET BATTERIES RECHARGEABLES AU LITHIUM COMPRENANT LADITE MATIERE**
[72] KIM, JINHWA, KR
[72] KIM, MINHAN, KR
[72] SEOG, JIHYUN, KR
[72] CHAE, YOUNGJOO, KR
[71] SAMSUNG SDI CO., LTD., KR
[22] 2023-11-15
[41] 2024-06-07
[30] KR (10-2022-0169819) 2022-12-07
[30] KR (10-2023-0123254) 2023-09-15

[21] **3,220,337**
[13] A1
[51] **Int.Cl. G06F 11/30 (2006.01) G06F 11/36 (2006.01)**
[25] EN
[54] **CENTRALIZED CONFIGURATION AND CHANGE TRACKING FOR A COMPUTING PLATFORM**
[54] **CONFIGURATION CENTRALISEE ET SUIVI DES MODIFICATIONS POUR UNE PLATEFORMEINFORMATIQUE**
[72] WAPLINGTON, BRIAN JAMES, US
[72] KIM, HYUNG, US
[72] LUDWIG, MICHAEL STEVEN, US
[72] BANSAL, RAVINDRA, US
[72] VAN DE SOMPELE, BENNY, US
[72] PATEL, SWAPNESH, US
[71] SERVICENOW, INC., US
[22] 2023-11-16
[41] 2024-06-07
[30] US (18/076736) 2022-12-07

[21] **3,220,373**
[13] A1
[51] **Int.Cl. B66C 23/72 (2006.01) B62D 37/04 (2006.01)**
[25] EN
[54] **HIGHLY VISIBLE COUNTERWEIGHTS FOR LIFTING MACHINES**
[54] **CONTREPOIDS A GRANDE VISIBILITE POUR DES MACHINES DE LEVAGE**
[72] TABUTIN, SIMON, US
[72] LAWSON, SEAN D., US
[71] CATERPILLAR INC., US
[22] 2023-11-17
[41] 2024-06-04
[30] US (18/061466) 2022-12-04

[21] **3,220,624**
[13] A1
[51] **Int.Cl. G06F 16/24 (2019.01) G06F 16/22 (2019.01) G06F 16/248 (2019.01)**
[25] EN
[54] **COMPUTATIONALLY EFFICIENT TRAVERSAL OF VIRTUAL TABLES**
[54] **CONSULTATION EFFICIENTE SUR LE PLAN DES CALCULS DE TABLEAUX VIRTUELS**
[72] WAPLINGTON, BRIAN JAMES, US
[71] SERVICENOW, INC., US
[22] 2023-11-21
[41] 2024-06-07
[30] US (18/076744) 2022-12-07

[21] **3,220,685**
[13] A1
[51] **Int.Cl. G06Q 40/03 (2023.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR FACILITATING PROVISION OF MERCHANT PREQUALIFICATION AMOUNTS TO USERS**
[54] **METHODE ET APPAREIL POUR FACILITER LA FOURNITURE DE MONTANTS DE PREQUALIFICATION AUPRES D~UN MARCHAND AUX UTILISATEURS**
[72] DAO, ANGELA, US
[72] LAGORE, CHAD, US
[72] EIMER, KENNY, US
[72] SRIPATHY, ARAVIND, US
[72] LIEU, KLEIN, US
[72] LEUNG, IDA, US
[72] MADANI, ARMAN, US
[71] AFFIRM, INC., US
[22] 2023-11-22
[41] 2024-06-08
[30] US (18/077,282) 2022-12-08

[21] **3,220,852**
[13] A1
[51] **Int.Cl. A63F 3/00 (2006.01) A63F 13/80 (2014.01) A63F 1/00 (2006.01)**
[25] EN
[54] **TOY FOR A GAME AND PROGRAM THEREFOR**
[54] **JOUET POUR UN JEU ET PROGRAMME CONNEXE**
[72] FUKUI, TOMONORI, JP
[71] BANDAI CO., LTD., JP
[22] 2023-11-22
[41] 2024-06-05
[30] JP (2022-194551) 2022-12-05

[21] **3,221,006**
[13] A1
[51] **Int.Cl. H04W 72/20 (2023.01) H04W 84/20 (2009.01) H04W 72/40 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IDENTIFYING SPATIAL RESOURCE FOR IOT NETWORK BASED ON MACHINE LEARNING**
[54] **SYSTEME ET METHODE POUR DETERMINER UNE RESSOURCE SPATIALE POUR UN RESEAU INTERNET DES OBJETS FONDE SUR L~APPRENTISSAGE AUTOMATIQUE**
[72] CHO, SUNG RAE, KR
[72] NA, WOONG SOO, KR
[72] LEE, DONG HYUN, KR
[72] OH, JUN SUK, KR
[71] CHUNG ANG UNIVERSITY INDUSTRY ACADEMIC COOPERATION FOUNDATION, KR
[22] 2023-11-24
[41] 2024-06-08
[30] KR (10-2022-0170766) 2022-12-08

[21] **3,221,145**
[13] A1
[51] **Int.Cl. B27B 5/36 (2006.01) B27B 5/02 (2006.01) B27G 19/02 (2006.01)**
[25] EN
[54] **PIVOTABLE LOG SAW FOR MAINTENANCE IMPROVEMENT**
[54] **SCIE A BOIS PIVOTANTE AUX FINS D~AMELIORATION DE L~ENTRETIEN**
[72] LAJOIE, JACQUES, CA
[72] LAJOIE, THOMAS, CA
[71] CARBOTECH INTERNATIONAL, CA
[22] 2023-11-27
[41] 2024-06-02
[30] US (63429674) 2022-12-02

[21] **3,221,160**
[13] A1
[51] **Int.Cl. A47C 17/58 (2006.01) A47B 13/00 (2006.01) A47C 17/62 (2006.01)**
[25] EN
[54] **FURNITURE OBJECTS FOR STORING FOLDABLE BEDS**
[54] **MOBILIER POUR RANGER DES LITS PLIANTS**
[72] PORTER, HOWARD, MY
[72] GROSSMAN, JOEL, MY
[71] NIGHT AND DAY FURNITURE LLC, US
[22] 2023-11-27
[41] 2024-06-02
[30] US (18/061,259) 2022-12-02

[21] **3,221,233**
[13] A1
[51] **Int.Cl. B28B 7/34 (2006.01) B33Y 80/00 (2015.01) B22F 10/22 (2021.01) B28B 23/22 (2006.01) C04B 35/64 (2006.01) C04B 35/80 (2006.01) C22C 13/00 (2006.01)**
[25] EN
[54] **TOOL COMPRISING EUTECTIC ALLOY, METHOD OF MAKING THE TOOL AND METHOD OF USING THE TOOL**
[54] **OUTIL COMPRENANT UN ALLIAGE EUTECTIQUE, METHODE DE FABRICATION DE L~OUTIL ET METHODE D~UTILISATION DE L~OUTIL**
[72] NEVINSKY, MICHAEL D., US
[72] MISCIAGNA, DAVID THOMAS, US
[72] D'OLIO, MICHAEL VINCENT, US
[72] FELKER, CHRISTOPHER JAY, US
[71] THE BOEING COMPANY, US
[22] 2023-11-27
[41] 2024-06-07
[30] US (18/063,051) 2022-12-07

[21] **3,221,273**
[13] A1
[51] **Int.Cl. B66D 1/36 (2006.01) B65H 57/06 (2006.01)**
[25] EN
[54] **MULTI-ANGLE BEARING HEAD**
[54] **TETE DE PALIER A ANGLES MULTIPLES**
[72] DUFOUR, MARTIN, CA
[72] PARKER, MICHAEL, CA
[71] 9105-0732 QUEBEC INC., CA
[22] 2023-11-28
[41] 2024-06-02
[30] US (63429682) 2022-12-02

[21] **3,221,308**
[13] A1
[51] **Int.Cl. C21D 8/00 (2006.01) C21D 1/18 (2006.01) C21D 7/06 (2006.01)**
[25] EN
[54] **METHOD FOR MANUFACTURING REFERENCE PIECE FOR MEASURING RETAINED AUSTENITE**
[54] **METHODE DE FABRICATION D~UNE PIECE DE REFERENCE POUR MESURER UNE AUSTENITE RETENUE**
[72] SAITO, YUTA, JP
[72] KUROKAWA, ATSUKI, JP
[72] AOKI, KAN, JP
[71] SINTOKOGIO, LTD., JP
[22] 2023-11-28
[41] 2024-06-06
[30] JP (2022-194778) 2022-12-06

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[21] **3,221,348**
[13] A1
[51] **Int.Cl. B65F 9/00 (2006.01) A01K 29/00 (2006.01) B65D 81/18 (2006.01) B65F 3/02 (2006.01) B65F 7/00 (2006.01)**
[25] EN
[54] **DEAD LIVESTOCK COLLECTION SYSTEM**
[54] **SYSTEME DE COLLECTE DU BETAIL MORT**
[72] CODINA RELATS, DAVID, ES
[72] ROCA ENRICH, RAMON, ES
[71] SUBPRODUCTOS CARNICOS ECHEVARRIA Y ASOCIADOS, SL, ES
[71] SUSTAINCO INVEST, SLU, ES
[22] 2023-11-28
[41] 2024-06-02
[30] EP (EP22383177.7) 2022-12-02

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[21] **3,221,438**
[13] A1
[51] **Int.Cl. E03D 3/10 (2006.01) E03D 1/24 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FLUSING AN OBJECT**
[54] **SYSTEME ET METHODE D~ECOULEMENT D~UN OBJET**
[72] HENNESSY, PHILIP DAWSON, CA
[71] P&C HENNESSY HOLDINGS, INC., CA
[22] 2023-11-29
[41] 2024-06-07
[30] US (63/386,388) 2022-12-07

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[21] **3,221,445**
[13] A1
[51] **Int.Cl. B61D 27/00 (2006.01) F25B 41/40 (2021.01) B60H 1/00 (2006.01) B60H 1/34 (2006.01) F24F 13/06 (2006.01)**
[25] EN
[54] **INTERFACE MODULE BETWEEN AN AIR TREATMENT UNIT AND AN INTERIOR SPACE OF A DOUBLE-DECK CAR BODY**
[54] **MODULE D~INTERFACE ENTRE UNE UNITE DE TRAITEMENT D~AIR ET UN ESPACE INTERIEUR D~UNE CARROSSERIE DE WAGON A DEUX ETAGES**
[72] ZECHLIN, JORG, DE
[72] PRAUSE, MARTIN, DE
[72] RADTKE, PHILIPP, DE
[72] GLOMB, CHRISTIAN, DE
[72] MARTENS, HOLGER, DE
[72] THOMAS, FALK, DE
[72] STENGEL, DIETMAR, DE
[72] HORTMANN, HARALD, DE
[71] ALSTOM HOLDINGS, FR
[22] 2023-11-29
[41] 2024-06-07
[30] EP (EP22306807.3) 2022-12-07

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[21] **3,221,475**
[13] A1
[51] **Int.Cl. H04N 21/462 (2011.01) H04H 60/15 (2009.01) H04H 60/47 (2009.01) H04N 21/4405 (2011.01) H04N 21/8352 (2011.01) H04N 21/8358 (2011.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR DETERMINING CREATION ATTRIBUTES OF VIDEO CONTENT**
[54] **METHODES ET SYSTEMES POUR DETERMINER DES ATTRIBUTS DE CREATION DE CONTENU VIDEO**
[72] RAMESH, SUNIL, US
[72] CUTTER, MICHAEL, US
[72] PINKERTON, CHARLES BRIAN, US
[72] LEVITIAN, KARINA, US
[71] ROKU, INC., US
[22] 2023-11-29
[41] 2024-06-02
[30] US (18/061.076) 2022-12-02

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[21] **3,221,498**
[13] A1
[51] **Int.Cl. F22B 37/32 (2006.01) G21C 15/16 (2006.01) G21C 1/08 (2006.01)**
[25] EN
[54] **STEAM SEPARATOR AND BOILING WATER REACTOR INCLUDING SAME**
[54] **SEPARATEUR DE VAPEUR ET REACTEUR A EAU BOUILLANTE LE COMPRENANT**
[72] FUJIMOTO, KIYOSHI, JP
[72] ISHIDA, NAOYUKI, JP
[71] HITACHI-GE NUCLEAR ENERGY, LTD., JP
[22] 2023-11-29
[41] 2024-06-06
[30] JP (2022-195103) 2022-12-06

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[21] **3,221,504**
[13] A1
[51] **Int.Cl. B62K 23/06 (2006.01) B62K 11/14 (2006.01) F02D 9/00 (2006.01)**
[25] EN
[54] **THROTTLE ACTUATOR POSITION VERIFICATION**
[54] **VERIFICATION DE LA POSITION D~UNE COMMANDE DE GAZ**
[72] THARALDSON, JOSEPH D., US
[72] RHODES, TREVOR F., US
[72] KERN, PETER, US
[72] MICKELSON, JOSHUA J., US
[72] BENTOW, TYLER, US
[72] HEDLUND, MICHAEL A., US
[72] MCCONNELL, CRAIG, US
[72] SANCHEZ, LUIS FELIPE, US
[72] VOLK, SCOTT RICHARD, US
[71] POLARIS INDUSTRIES INC., US
[22] 2023-11-29
[41] 2024-06-02
[30] US (63/429,915) 2022-12-02
[30] US (18/517,073) 2023-11-22

[21] **3,221,535**
[13] A1
[51] **Int.Cl. E06B 1/12 (2006.01) E06B 1/56 (2006.01) E06B 3/12 (2006.01)**
[25] EN
[54] **PRE-HUNG DOOR ASSEMBLY AND METHOD FOR THE SAME**
[54] **ASSEMBLAGE DE PORTE MONTEE ET METHODE CONNEXE**
[72] SCARFO, LOUIS, US
[72] GESICKI, HEIDI, US
[72] HARVEY, DERON, US
[72] KOESTER, MICHAEL GARY, US
[72] SNAPP, JR., MARK STEPHEN, US
[71] ASSA ABLOY AMERICAS RESIDENTIAL INC., US
[22] 2023-11-30
[41] 2024-06-06
[30] US (63/430,431) 2022-12-06

[21] **3,221,537**
[13] A1
[51] **Int.Cl. B05B 15/60 (2018.01) B05B 1/22 (2006.01) E03C 1/06 (2006.01) E03C 1/08 (2006.01) F16L 7/00 (2006.01)**
[25] EN
[54] **FAUCET WITH FLOW CONDITIONER COUPLING**
[54] **ROBINET COMPRENANT UN RACCORD DE CONDITIONNEUR D~ECOULEMENT**
[72] LIUZZI, VINCENT, US
[72] VAN LEYEN, JAN CHRISTOPHER, US
[71] ASSA ABLOY AMERICAS RESIDENTIAL INC., US
[22] 2023-11-30
[41] 2024-06-06
[30] US (63/430,501) 2022-12-06

[21] **3,221,571**
[13] A1
[51] **Int.Cl. H02G 3/08 (2006.01) H02G 3/14 (2006.01)**
[25] EN
[54] **ADJUSTABLE-DEPTH RING ASSEMBLY**
[54] **ASSEMBLAGE DE BAGUE A PROFONDEUR AJUSTABLE**
[72] WITHERBEE, MARTIN L., US
[72] SEMPLE, SHANE A., US
[71] EATON INTELLIGENT POWER LIMITED, IE
[22] 2023-11-30
[41] 2024-06-05
[30] US (63/386,000) 2022-12-05

[21] **3,221,587**
[13] A1
[51] **Int.Cl. F04C 2/07 (2006.01) F01B 13/06 (2006.01) F01B 31/00 (2006.01) F01C 1/24 (2006.01) F04B 1/107 (2020.01) F16J 1/00 (2006.01)**
[25] EN
[54] **BIDIRECTIONAL ROTARY HYDRAULIC MOTOR AND PUMP**
[54] **MOTEUR HYDRAULIQUE ROTATIF BIDIRECTIONNEL ET POMPE**
[72] DYM, HERBERT, US
[71] DYM, HERBERT, US
[22] 2023-11-30
[41] 2024-06-05
[30] US (18/074,817) 2022-12-05

[21] **3,221,610**
[13] A1
[51] **Int.Cl. B25B 7/12 (2006.01) B25B 7/16 (2006.01) B25B 7/22 (2006.01) B25B 25/00 (2006.01)**
[25] EN
[54] **TIE PLIER**
[54] **PINCE A ATTACHES**
[72] DENG, XIAOMING, CN
[72] SHEN, YUEJUAN, CN
[71] ZHUJI ITOP HARDWARE TOOLS CO., LTD., CN
[71] ZHEJIANG IWISS ELECTRIC CO., LTD., CN
[22] 2023-12-01
[41] 2024-06-05
[30] CN (2022233019935) 2022-12-05
[30] CN (2023230030570) 2023-11-07

[21] **3,221,618**
[13] A1
[25] EN
[54] **METHOD FOR VERIFYING VIDEO DATA ENCODED IN AN ENCODER UNIT**
[54] **METHODE DE VERIFICATION DE DONNEES VIDEO CODEES DANS UN CODEUR**
[72] AUCHMANN, MATTHIAS, AT
[71] AUCHMANN, MATTHIAS, AT
[22] 2023-12-01
[41] 2024-06-05
[30] EP (22 020 594.2) 2022-12-05

[21] **3,221,638**
[13] A1
[51] **Int.Cl. C25B 1/02 (2006.01) C25B 15/023 (2021.01) C01B 3/02 (2006.01) C25C 1/00 (2006.01)**
[25] EN
[54] **RENEWABLE HYDROGEN PRODUCTION FROM THE PURIFICATION OF RAW METALS**
[54] **PRODUCTION D~HYDROGENE RENOUVELABLE DE L~EPURATION DE METAUX BRUTS**
[72] SHORT, DANIEL Z., US
[71] MARATHON PETROLEUM COMPANY LP, US
[22] 2023-12-01
[41] 2024-06-02
[30] US (18/526,316) 2023-12-01
[30] US (63/385,914) 2022-12-02

[21] **3,221,663**
[13] A1
[51] **Int.Cl. A61F 15/00 (2006.01) B65D 83/08 (2006.01)**
[25] EN
[54] **PLASTER DISPENSER**
[54] **DISTRIBUTEUR DE PANSEMENTS**
[72] BARKHOLT, BO WINTHER, DK
[71] PLUM SAFETY APS, DK
[22] 2023-11-30
[41] 2024-06-05
[30] EP (22211293.0) 2022-12-05

[21] **3,221,670**
[13] A1
[51] **Int.Cl. B26D 5/30 (2006.01) B26D 1/04 (2006.01) B26D 5/38 (2006.01) B26D 7/26 (2006.01)**
[25] EN
[54] **WINDOW COVERING CUTTING APPARATUS AND METHOD OF CUTTING WINDOW COVERING**
[54] **APPAREIL ET METHODE DE COUPE DE COUVERTURE DE FENETRE**
[72] NIEN, CHAO-HUNG, TW
[72] TANG, WEI-CHIEH, TW
[72] KE, SHUN-YUAN, TW
[72] KUO, SHANG-JU, TW
[71] NIEN MADE ENTERPRISE CO., LTD., TW
[22] 2023-12-01
[41] 2024-06-02
[30] TW (111213421) 2022-12-02
[30] TW (112207503) 2023-07-17

[21] **3,221,700**
[13] A1
[51] **Int.Cl. B23K 37/00 (2006.01) B23K 28/02 (2014.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO HAVE MULTIPLE WELDING-TYPE POWER SUPPLIES CONCURRENTLY SET UP**
[54] **SYSTEMES ET METHODES POUR LA PREPARATION DE MULTIPLES SOURCES D~ALIMENTATION DE SOUDAGE EN MEME TEMPS**
[72] GELLINGS, BEAU, US
[72] BROSCO, LUKE, US
[72] RUMAO, MANNY, US
[72] HELEIN, DAN, US
[72] PASHKINA, VERONIKA, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2023-12-01
[41] 2024-06-02
[30] US (63/429,807) 2022-12-02
[30] US (18/523,050) 2023-11-29

[21] **3,221,703**
[13] A1
[51] **Int.Cl. C25D 1/04 (2006.01) C25D 3/38 (2006.01) C25D 5/04 (2006.01) H01M 4/66 (2006.01) H01M 4/75 (2006.01)**
[25] EN
[54] **COPPER FOIL, ELECTRODE COMPRISING THE SAME, SECONDARY BATTERY COMPRISING THE SAME, AND METHOD FOR MANUFACTURING THE SAME**
[54] **FEUILLE DE CUIVRE, ELECTRODE LA COMPRENANT, BATTERIE SECONDAIRE LA COMPRENANT ET METHODE DE FABRICATION**
[72] JIN, SHAN HUA, KR
[72] YOON, MIN SEOK, KR
[71] SK NEXILIS CO., LTD., KR
[22] 2023-12-01
[41] 2024-06-06
[30] KR (10-2022-0168761) 2022-12-06
[30] KR (10-2023-0132907) 2023-10-05

[21] **3,221,715**
[13] A1
[51] **Int.Cl. F16K 15/02 (2006.01) E21B 34/08 (2006.01) F16K 27/00 (2006.01)**
[25] EN
[54] **FLOAT VALVE ASSEMBLY**
[54] **ASSEMBLAGE DE ROBINET A FLOTTEUR**
[72] SANTOS, FRANCIS, US
[72] ANWER, SOHAIB, US
[71] FORUM US, INC., US
[22] 2023-12-01
[41] 2024-06-02
[30] US (18/508,908) 2023-11-14
[30] US (63/429,595) 2022-12-02

[21] **3,221,716**
[13] A1
[51] **Int.Cl. H03F 3/58 (2006.01) H03F 3/189 (2006.01) H03F 3/20 (2006.01) H04B 1/04 (2006.01) H04B 7/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MANAGING THE OPERATION OF A TRAVELLING WAVE TUBE AMPLIFIER**
[54] **SYSTEME ET METHODE POUR GERER L~EXPLOITATION D~UN AMPLIFICATEUR DE TUBE A ONDES PROGRESSIVES**
[72] PEQUET, ERIC, BE
[72] LISMONDE, XAVIER, BE
[72] FAYT, PHILIPPE, BE
[71] THALES, FR
[22] 2023-12-01
[41] 2024-06-02
[30] EP (22306781.0) 2022-12-02

[21] **3,221,721**
[13] A1
[51] **Int.Cl. H04B 7/204 (2006.01) H04W 72/04 (2023.01) H04B 7/02 (2018.01)**
[25] EN
[54] **METHOD FOR ALLOCATING TIME-FREQUENCY RESOURCES IN A SATELLITE TELECOMMUNICATION SYSTEM USING BEAMFORMING, AND ASSOCIATED DEVICE AND COMPUTER PROGRAM**
[54] **METHODE POUR AFFECTER DES RESSOURCES DE FREQUENCE-TEMPS DANS UN SYSTEME DE TELECOMMUNICATION PAR SATELLITE AU MOYEN DE LA FORMATION DE FAISCEAU ET DISPOSITIF ET PROGRAMME INFORMATIQUE CONNEXES**
[72] ARNAUD, MATHIEU, US
[72] BAUDRY, BENJAMIN, US
[72] EL JAAFARI, MOHAMED, US
[72] CHAMAILLARD, BAPTISTE, US
[71] THALES, FR
[22] 2023-12-01
[41] 2024-06-06
[30] FR (2212806) 2022-12-06

[21] **3,221,726**
[13] A1
[51] **Int.Cl. A45B 17/00 (2006.01) A45B 23/00 (2006.01) A45B 25/00 (2006.01)**
[25] EN
[54] **UMBRELLA WITH PIVOTING LOCKING DEVICE AND RELATED METHODS**
[54] **PARAPLUIE COMPRENANT UN DISPOSITIF DE VERROUILLAGE PIVOTANT ET METHODES CONNEXES**
[72] BROWNE, WILLIAM MARTIN, US
[71] ATLEISURE, LLC, US
[22] 2023-12-01
[41] 2024-06-02
[30] US (63/385,883) 2022-12-02
[30] US (18/329,782) 2023-06-06

[21] **3,221,727**
[13] A1
[25] EN
[54] **TEST BENCH FOR SNUBBER**
[54] **BANC D~ESSAI POUR AMORTISSEUR**
[72] VERA TORRES, BERNARDO LUIS, CL
[72] ZAMORANO JONES, CLAUDIO DEVON, CL
[71] MINETEC S.A., CL
[22] 2023-12-01
[41] 2024-06-07
[30] CL (202203481) 2022-12-07

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[21] **3,221,729**
[13] A1
[51] **Int.Cl. G06Q 50/10 (2012.01) G06Q 50/40 (2024.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR AUTOMATED COORDINATION OF PICKUP AND DELIVERY OF LAUNDRY SERVICES**
[54] **SYSTEME ET METHODE POUR LA COORDINATION AUTOMATIQUE DU RAMASSAGE ET DE LA LIVRAISON DE SERVICES DE BUANDERIE**
[72] LEE, CHARLES, CA
[72] CHAN, VICTOR, CA
[72] SINGH, GURPREET, CA
[71] TECHTREX INC., CA
[22] 2023-12-01
[41] 2024-06-02
[30] US (63/385,895) 2022-12-02

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[21] **3,221,736**
[13] A1
[51] **Int.Cl. A45B 25/00 (2006.01) A45B 19/04 (2006.01) E04H 15/46 (2006.01) F16B 7/14 (2006.01)**
[25] EN
[54] **UMBRELLA WITH SLIDING MAST AND RELATED METHODS**
[54] **PARAPLUIE COMPRENANT UN MAT COULISSANT ET METHODES CONNEXES**
[72] BROWNE, WILLIAM MARTIN, US
[71] ATLEISURE, LLC, US
[22] 2023-12-01
[41] 2024-06-02
[30] US (63/385,883) 2022-12-02
[30] US (18/186,375) 2023-03-20

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[21] **3,221,797**
[13] A1
[51] **Int.Cl. C25D 1/04 (2006.01) C25D 3/38 (2006.01) C25D 5/04 (2006.01) H01M 4/66 (2006.01) H01M 4/75 (2006.01)**
[25] EN
[54] **COPPER FOIL, ELECTRODE COMPRISING THE SAME, SECONDARY BATTERY COMPRISING THE SAME, AND METHOD FOR MANUFACTURING THE SAME**
[54] **FEUILLE DE CUIVRE, ELECTRODE LA COMPRENANT, BATTERIE SECONDAIRE LA COMPRENANT ET METHODE DE FABRICATION**
[72] JIN, SHAN HUA, KR
[72] YOON, MIN SEOK, KR
[71] SK NEXILIS CO., LTD., KR
[22] 2023-12-04
[41] 2024-06-06
[30] KR (10-2022-0168762) 2022-12-06
[30] KR (10-2023-0132908) 2023-10-05

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[21] **3,221,809**
[13] A1
[51] **Int.Cl. F25C 1/12 (2006.01) B65D 90/26 (2006.01)**
[25] EN
[54] **ICE MAKER WITH STAND PIPE DRAIN**
[54] **MACHINE A FABRIQUER DE LA GLACE COMPRENANT UN DRAIN A TUYAU VERTICAL**
[72] KNATT, KEVIN D., US
[71] TRUE MANUFACTURING CO., INC., US
[22] 2023-12-01
[41] 2024-06-02
[30] US (18/061194) 2022-12-02

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[21] **3,221,824**
[13] A1
[51] **Int.Cl. E06B 3/58 (2006.01) E06B 1/04 (2006.01)**
[25] EN
[54] **SELF-CINCHING DEVICE FOR FENESTRATION UNIT**
[54] **DISPOSITIF D~AUTOSERRAGE POUR UNE UNITE DE FENESTRATION**
[72] MORRIS, PAUL MICHAEL ALLAN, US
[72] DEPEW, JUSTIN MICHAEL, US
[71] ANDERSEN CORPORATION, US
[22] 2023-12-01
[41] 2024-06-02
[30] US (63/429713) 2022-12-02

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[21] **3,221,830**
[13] A1
[51] **Int.Cl. E06B 7/22 (2006.01) E06B 3/30 (2006.01)**
[25] EN
[54] **ANTI-SHRINK WEATHERSTRIP CLIP**
[54] **ATTACHE A BANDE D'ETANCHEITE ANTIRETRECISSEMENT**
[72] JOHNSON, CRAIG MICHAEL, US
[72] MORRIS, PAUL MICHAEL ALLAN, US
[71] ANDERSEN CORPORATION, US
[22] 2023-12-01
[41] 2024-06-02
[30] US (63/429715) 2022-12-02

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[21] **3,221,917**
[13] A1
[51] **Int.Cl. G01N 33/00 (2006.01)**
[25] EN
[54] **APPARATUSES AND METHODS FOR MEASURING DUSTINESS OF A PRODUCT**
[54] **APPAREILS ET METHODES POUR MESURER L~EMPOUSSIEREMENT D~UN PRODUIT**
[72] OVALLE, SAUL C., US
[72] SCHNEPF, JAMES, US
[72] EUSKE, AMY, US
[71] PETSMART HOME OFFICE, INC., US
[22] 2023-12-04
[41] 2024-06-08
[30] US (18/077,792) 2022-12-08

[21] **3,221,937**
[13] A1
[51] **Int.Cl. B60T 17/22 (2006.01) B60T 13/14 (2006.01) B60T 13/36 (2006.01) B62D 53/00 (2006.01)**
[25] EN
[54] **TRACTOR PROTECTION SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE DE PROTECTION DE TRACTEUR**
[72] KOMANDUR, DEEPAK K., US
[72] MONTAGNA, JAMES, US
[72] COOPER, JAMES MICHAEL, US
[72] SAMAYAMANTULA, JESWANTH, IN
[72] PARIKH, NIRAV K., US
[72] SASMAL, SUBASHISH, US
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US
[22] 2023-12-04
[41] 2024-06-08
[30] US (18/077,622) 2022-12-08

[21] **3,221,959**
[13] A1
[51] **Int.Cl. A01H 6/34 (2018.01) A01H 1/02 (2006.01) A01H 1/04 (2006.01) A01H 4/00 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) C12N 5/04 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **MELON CULTIVARS ME300, ME535, ME594, ME597, ME598, ME670, ME671 AND ME675**
[54] **CULTIVARS DE MELON ME300, ME535, ME594, ME597, ME598, ME670, ME671 ET ME675**
[72] KUMAR, RAKESH, US
[71] SYNGENTA CROP PROTECTION AG, CH
[22] 2023-12-06
[41] 2024-06-06
[30] US (18/062,253) 2022-12-06

[21] **3,221,965**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) F04B 47/12 (2006.01) F04B 53/18 (2006.01)**
[25] EN
[54] **LUBRICATOR ASSEMBLY WITH FLANGE OR FLOW BLOCK MOUNTED CATCHER**
[54] **ASSEMBLAGE DE GRAISSEUR COMPRENANT UN RECEPTEUR SUR BRIDE OU BLOC D~ECOULEMENT**
[72] BUTTNOR, CLINTON, CA
[72] GELDENHUYS, MATHYS, CA
[71] TIER 1 ENERGY SOLUTIONS, INC., CA
[22] 2023-12-06
[41] 2024-06-06
[30] US (63/430,535) 2022-12-06
[30] US (63/484,254) 2023-02-10

[21] **3,221,993**
[13] A1
[51] **Int.Cl. B01D 47/02 (2006.01) A61L 9/00 (2006.01) B01D 53/14 (2006.01)**
[25] EN
[54] **AIR CLEANING APPARATUS AND METHODS**
[54] **APPAREIL ET METHODES D~ASSAINISSEMENT DE L~AIR**
[72] JOSEPH, KURIAKOSE T., US
[71] JOSEPH, KURIAKOSE T., US
[22] 2023-12-04
[41] 2024-06-05
[30] US (18/075,170) 2022-12-05

[21] **3,221,994**
[13] A1
[51] **Int.Cl. E02F 3/28 (2006.01) E02F 9/00 (2006.01)**
[25] EN
[54] **ASSEMBLY FOR WEAR MONITORING AND PREVENTION OF BUSHINGS AND PINS IN PIVOT CONNECTIONS OF ELECTRIC SHOVEL BUCKETS**
[54] **ASSEMBLAGE DE SURVEILLANCE ET DE PREVENTION DE L~USURE DES BAGUES ET DES TIGES DANS LES RACCORDS ARTICULES DE GODETS DE PELLES ELECTRIQUES**
[72] VERA TORRES, BERNARDO LUIS, CL
[72] FLORES MORALES, EDWIN ANTONIO, CL
[72] MORALES MERINO, JOSE LUIS, CL
[71] MINETEC S.A., CL
[22] 2023-12-05
[41] 2024-06-07
[30] CL (202203482) 2022-12-07

[21] **3,222,013**
[13] A1
[51] **Int.Cl. B65B 69/00 (2006.01) B65B 13/02 (2006.01) B65B 13/18 (2006.01)**
[25] EN
[54] **STRAPPING APPARATUS AND METHOD OF HANDLING A STRAPPING BAND**
[54] **APPAREIL D~EMBALLAGE A COURROIE ET METHODE DE MANIPULATION D~UNE COURROIE**
[72] NOLKE, CHRISTIAN, DE
[72] PROTZMANN, BASTIAN, DE
[72] BUHNE, LUKAS, DE
[71] TITAN UMREIFUNGSTECHNIK GMBH & CO. KG, DE
[22] 2023-12-05
[41] 2024-06-05
[30] EP (EP22211357.3) 2022-12-05

[21] **3,222,035**
[13] A1
[51] **Int.Cl. E21B 33/068 (2006.01) E21B 23/08 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **WELLBORE SATELLITE LAUNCHER AND SYSTEMS THEREOF**
[54] **LANCEUR DE SATELLITE EN TROU DE FORAGE ET SYSTEMES CONNEXES**
[72] ST GEORGE, ED, CA
[72] CHEREWYK, BORIS P, CA
[71] ISOLATION EQUIPMENT SERVICES INC., CA
[22] 2023-12-05
[41] 2024-06-06
[30] US (63/430,456) 2022-12-06
[30] US (63/430,871) 2022-12-07

[21] **3,222,043**
[13] A1
[51] **Int.Cl. F03D 7/00 (2006.01) G06N 5/00 (2023.01)**
[25] FR
[54] **METHOD FOR CONTROLLING A WIND FARM BY MEANS OF REINFORCEMENT LEARNING**
[54] **PROCEDE DE CONTROLE D'UNE FERME D'EOLIENNES AU MOYEN D'UNE METHODE D'APPRENTISSAGE PAR RENFORMCEMENT**
[72] BOUBA, EVA, FR
[72] DUBUC, DONATIEN, FR
[72] ZHU, JIAMIN, FR
[72] BIZON MONROC, CLAIRE, FR
[72] BUSIC, ANA, FR
[71] IFP ENERGIES NOUVELLES, FR
[71] INSTITUT DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE, FR
[22] 2023-12-05
[41] 2024-06-05
[30] FR (FR 2212772) 2022-12-05

[21] **3,222,065**
[13] A1
[51] **Int.Cl. G06Q 40/02 (2023.01) G06Q 20/12 (2012.01) G06F 21/31 (2013.01) G06N 20/00 (2019.01)**
[25] EN
[54] **COMPUTER SYSTEM, METHOD, AND DEVICE FOR A FINANCIAL SERVICES AGGREGATION SYSTEM**
[54] **SYSTEME INFORMATIQUE, METHODE ET DISPOSITIF POUR UN SYSTEME D'AGREGATION DE SERVICES FINANCIERS**
[72] CHURCH, MARK, CA
[71] 10353744 CANADA LTD., CA
[22] 2023-12-05
[41] 2024-06-05
[30] US (63/430,340) 2022-12-05

[21] **3,222,069**
[13] A1
[51] **Int.Cl. G06Q 20/08 (2012.01) G06Q 20/10 (2012.01) G06Q 20/38 (2012.01) G06Q 20/20 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01)**
[25] EN
[54] **COMPUTER SYSTEM, METHOD, AND DEVICE FOR TRANSFERRING VALUE WITH OFFLINE FUNCTIONALITY**
[54] **SYSTEME INFORMATIQUE, METHODE ET DISPOSITIF POUR TRANSFERER UNE VALEUR COMPRENANT UNE FONCTIONNALITE HORS LIGNE**
[72] CHURCH, MARK, CA
[71] 10353744 CANADA LTD., CA
[22] 2023-12-05
[41] 2024-06-05
[30] US (63/430,341) 2022-12-05

[21] **3,222,073**
[13] A1
[25] EN
[54] **A SCALE FOR A TOWABLE VEHICLE**
[54] **BALANCE POUR VEHICULE REMORQUABLE**
[72] AFARIAN, GARO, AU
[72] MIRFENDERESKI, SHOJAEDDIN, AU
[71] ARK CORPORATION PTY LTD, AU
[22] 2023-12-05
[41] 2024-06-05
[30] AU (2022903712) 2022-12-05

[21] **3,222,075**
[13] A1
[51] **Int.Cl. B01D 46/10 (2006.01)**
[25] EN
[54] **FRAMED AIR FILTER WITH REINFORCING PLATE**
[54] **FILTRE A AIR ENCADRE COMPRENANT UNE PLAQUE DE RENFORT**
[72] MENKEN, FIONA ELIZABETH, US
[72] ZICH, JONATHAN JOSEPH, US
[71] 3M INNOVATIVE PROPERTIES COMPANY, US
[22] 2023-11-30
[41] 2024-06-02
[30] US (63/429690) 2022-12-02

[21] **3,222,076**
[13] A1
[51] **Int.Cl. A61G 17/04 (2006.01)**
[25] EN
[54] **SUPPORT BRACKET FOR A CASKET LID**
[54] **FERRURE DE SUPPORT POUR UN COUVERCLE DE CERCUEIL**
[72] DAVIS, JUSTIN F., US
[72] WILBER, BRENT, US
[71] VANDOR GROUP, INC., US
[22] 2023-12-05
[41] 2024-06-05
[30] US (63/386,063) 2022-12-05

[21] **3,222,089**
[13] A1
[51] **Int.Cl. B66F 17/00 (2006.01) B66F 9/06 (2006.01) B66F 9/24 (2006.01) B66F 11/00 (2006.01)**
[25] EN
[54] **ELECTRICALLY INSULATED MOUNTING PLATFORM AND ASSOCIATED AERIAL SYSTEMS**
[54] **PLATEFORME DE MONTAGE ISOLEE ELECTRIQUEMENT ET SYSTEME AERIEN CONNEXE**
[72] BEAM, DENNIS, IV, US
[71] STECO BARRIERS LLC, US
[22] 2023-12-05
[41] 2024-06-07
[30] US (18/076,655) 2022-12-07

[21] **3,222,092**
[13] A1
[51] **Int.Cl. H02G 3/08 (2006.01) H02G 3/02 (2006.01) H02G 3/14 (2006.01)**
[25] EN
[54] **ELECTRICAL BOX**
[54] **BOITIER ELECTRIQUE**
[72] MARROTTE, JOHN R., US
[72] MURRAY, DANIEL PARKER, US
[72] ABBOTT, SHAUN ERIC, US
[72] DIAMANTOPLOS, MICHAEL, US
[72] BELLEMARE, JOHN ARTHUR, US
[72] CHANG, XINGUO, CN
[72] XIAO, HUA, CN
[71] THE WIREMOLD COMPANY, US
[22] 2023-12-06
[41] 2024-06-06
[30] US (63/386,203) 2022-12-06

[21] **3,222,155**
[13] A1
[51] **Int.Cl. F24F 13/22 (2006.01) F24F 1/36 (2011.01) F24F 11/30 (2018.01) F24D 19/08 (2006.01) F25B 39/00 (2006.01) F25D 21/14 (2006.01)**
[25] EN
[54] **CONDENSATE COLLECTION ASSEMBLY**
[54] **ASSEMBLAGE DE COLLECTE DE CONDENSAT**
[72] ALY, AMR MAHER, US
[72] CHENG, XIANJIN, US
[72] ROMERO, ELMER WAYNE, US
[72] GARRETT, D'MARCUS, US
[72] ERGUL, SELIN NUR, US
[72] BALJEKAR, AKSHAY, IN
[71] JOHNSON CONTROLS TYCO IP HOLDINGS LLP, US
[22] 2023-12-05
[41] 2024-06-05
[30] US (18/075,133) 2022-12-05

[21] **3,222,174**
[13] A1
[25] FR
[54] **DEVICE FOR STEERING A DRILLING TOOL AND ASSOCIATED PROCESS**
[54] **DISPOSITIF DE GUIDAGE EN ROTATION D'UN OUTIL DE FORAGE ET PROCEDE ASSOCIE**
[72] MILLET, FRANCOIS GUY JACQUES RENE, FR
[71] BREAKTHROUGH DESIGN, FR
[22] 2023-12-07
[41] 2024-06-08
[30] FR (FR 22 12987) 2022-12-08

[21] **3,222,180**
[13] A1
[51] **Int.Cl. E21B 33/13 (2006.01) E04F 21/02 (2006.01) E21B 47/10 (2012.01)**
[25] EN
[54] **CEMENT TOP JOBS IN WELLBORE ANNULI USING EXPANDABLE COMPOSITIONS**
[54] **COUCHES SUPERIEURES DE CIMENT DANS LES ESPACES ANNULAIRES DE TROUS DE FORAGE UTILISANT DES COMPOSITIONS EXPANSIBLES**
[72] ARCENEAUX, DOUGLAS CORY, US
[72] KRANE, BENJAMIN JAMES, US
[72] CARROLL, CALEB KIMBRELL, US
[72] FULLER, MICHAEL JAMES, US
[71] CHEVRON U.S.A. INC., US
[22] 2023-12-06
[41] 2024-06-08
[30] US (63/386,672) 2022-12-08

[21] **3,222,191**
[13] A1
[51] **Int.Cl. G02B 30/50 (2020.01) G02B 27/01 (2006.01) H03M 7/42 (2006.01)**
[25] EN
[54] **CODING VERTEX INFORMATION OF A POINT CLOUD**
[54] **CODAGE DES RENSEIGNEMENTS DE VERTEX D~UN NUAGE DE POINTS**
[72] LASSERRE, SEBASTIEN, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-12-05
[41] 2024-06-05
[30] US (63/430,305) 2022-12-05

[21] **3,222,193**
[13] A1
[51] **Int.Cl. C11B 9/00 (2006.01) C08F 2/44 (2006.01) C08K 11/00 (2006.01) C08L 33/08 (2006.01)**
[25] EN
[54] **POLYMER SYNTHESIS AND USE**
[54] **SYNTHESE DE POLYMERE ET UTILISATION**
[72] PALAFOX, PATRICK, US
[72] CAGLE, JOHN, US
[72] LIVELY, CHRISTINA, US
[71] THE YANKEE CANDLE COMPANY, INC., US
[22] 2023-12-06
[41] 2024-06-07
[30] US (63/386,416) 2022-12-07

[21] **3,222,227**
[13] A1
[25] EN
[54] **BLOCK VECTOR SIGNALING FOR RECONSTRUCTION-REORDERED INTRA BLOCK COPY**
[54] **SIGNALEMENT DE VECTEURS DE BLOCS POUR UNE COPIE DE BLOC INTRA REORDONNE PAR RECONSTRUCTION**
[72] FILIPPOV, ALEXEY KONSTANTINOVICH, US
[72] RUFITSKIY, VASILY ALEXEEVICH, US
[72] DINAN, ESMAEL HEJAZI, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-12-06
[41] 2024-06-06
[30] US (63/430,424) 2022-12-06

[21] **3,222,235**
[13] A1
[51] **Int.Cl. B65B 11/54 (2006.01) B65B 11/02 (2006.01) B65B 45/00 (2006.01) B65B 49/00 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR WRAPPING AN ARTICLE**
[54] **APPAREIL ET METHODE D~EMBALLAGE D~UN ARTICLE**
[72] PERREAULT, MARTIN, CA
[72] SASSEVILLE, PATRICK, CA
[71] 9192 9281 QUEBEC INC., CA
[22] 2023-12-07
[41] 2024-06-08
[30] US (63/386.520) 2022-12-08

[21] **3,222,407**
[13] A1
[51] **Int.Cl. A45C 13/22 (2006.01) A45C 5/03 (2006.01) A45C 5/14 (2006.01)**
[25] EN
[54] **LUGGAGE ARTICLE ATTACHMENT MEMBER**
[54] **ELEMENT DE FIXATION D~ARTICLE DE BAGAGES**
[72] KARL, PHILIP JUSTIN, US
[72] BOPANNA, ULLIYADA, US
[71] SAMSONITE IP HOLDINGS S.A R.L., LU
[22] 2023-12-07
[41] 2024-06-07
[30] US (18/077150) 2022-12-07

[21] **3,222,426**
[13] A1
[51] **Int.Cl. B63B 27/14 (2006.01)**
[25] EN
[54] **POCKET STYLE FOLDING BOAT LADDER ASSEMBLY**
[54] **ASSEMBLAGE D~ECHELLE PORTATIVE DE BATEAU**
[72] ROGERS, ERIK, US
[72] YOBE, MICHAEL, US
[72] STOCKMAN, JOHN CB, US
[71] POLARIS INDUSTRIES INC., US
[22] 2023-12-07
[41] 2024-06-07
[30] US (63/430,818) 2022-12-07

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[21] **3,222,433**
[13] A1
[51] **Int.Cl. A45C 13/04 (2006.01) A45C 5/03 (2006.01) A45C 5/14 (2006.01)**
[25] EN
[54] **LUGGAGE ARTICLE ATTACHMENT MEMBER**
[54] **ELEMENT DE FIXATION D~ARTICLE DE BAGAGES**
[72] KARL, PHILIP JUSTIN, US
[72] BOPANNA, ULLIYADA, US
[71] SAMSONITE IP HOLDINGS S.A R.L., LU
[22] 2023-12-07
[41] 2024-06-07
[30] US (18/077,146) 2022-12-07

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[21] **3,222,451**
[13] A1
[51] **Int.Cl. A61C 7/12 (2006.01) A61C 5/80 (2017.01) A61C 3/00 (2006.01) A61C 19/04 (2006.01)**
[25] EN
[54] **APPARATUS, SYSTEM AND METHOD FOR DIRECT BONDING OF ORTHODONTIC BRACKETS**
[54] **APPAREIL, SYSTEME ET METHODE POUR UN COLLAGE DIRECT DE BOITIERS ORTHODONTIQUES**
[72] SHUNOCK, MICHAEL, CA
[71] 2860296 ONTARIO INC., CA
[22] 2023-12-08
[41] 2024-06-08
[30] US (63/431,168) 2022-12-08

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[21] **3,222,472**
[13] A1
[51] **Int.Cl. B60J 11/06 (2006.01) B60R 9/06 (2006.01) B60R 9/10 (2006.01) B62D 33/023 (2006.01)**
[25] EN
[54] **TAILGATE PAD**
[54] **TABLIER POUR HAYON**
[72] SCHREIBER, GARY, US
[72] LACROIX, JEAN FRANCOIS, US
[72] ROBERTS, ROBBIE, US
[72] DA MOTTA, RODRIGO, US
[72] ROTA, MARCO, US
[71] FOX FACTORY, INC., US
[22] 2023-12-08
[41] 2024-06-08
[30] US (63/431,291) 2022-12-08
[30] US (63/431,292) 2022-12-08
[30] US (63/431,293) 2022-12-08
[30] US (63/431,296) 2022-12-08
[30] US (18/532,660) 2023-12-07

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[21] **3,222,481**
[13] A1
[51] **Int.Cl. A47K 13/24 (2006.01) A47K 13/00 (2006.01) F16B 5/02 (2006.01) F16B 5/06 (2006.01)**
[25] EN
[54] **FASTENING DEVICE FOR A SEAT FITTING OR LID FITTING ON A SANITARY OBJECT, AND SANITARY ARRANGEMENT COMPRISING A SANITARY OBJECT AND A SEAT FITTING OR LID FITTING**
[54] **DISPOSITIF D~ATTACHE POUR UN RACCORD DE SIEGE OU UN RACCORD DE COUVERCLE D~UN PRODUIT SANITAIRE, ET ENSEMBLE SANITAIRE COMPRENANT UN OBJET SANITAIRE ET UN RACCORD DE SIEGE OU UN RACCORD DE COUVERCLE**
[72] DEMMEL, RUDIGER, DE
[71] DURAVIT AKTIENGESELLSCHAFT, DE
[22] 2023-12-08
[41] 2024-06-08
[30] DE (10 2022 132 678.0) 2022-12-08

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[21] **3,222,557**
[13] A1
[51] **Int.Cl. H02S 20/22 (2014.01)**
[25] EN
[54] **MODULAR PHOTOVOLTAIC ASSEMBLY**
[54] **ASSEMBLAGE PHOTOVOLTAIQUE MODULAIRE**
[72] VAN OS, JAN-JAAP EDUARD, NL
[71] EXASUN B.V., NL
[22] 2023-12-08
[41] 2024-06-08
[30] NL (2033690) 2022-12-08

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[21] **3,223,803**
[13] A1
[51] **Int.Cl. A44B 19/16 (2006.01) B29C 48/16 (2019.01)**
[25] EN
[54] **MOISTURE PROTECTED ENCLOSURE COMPONENTS**
[54] **COMPOSANTS D~ENCEINTE PROTEGEE CONTRE L~HUMIDITE**
[72] SEPTIEN ROJAS, JOSE MANUEL, US
[72] JOHNSON, MARION, US
[72] PLOURDE, ERIC, US
[72] PIEDRA, JUAN, US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2023-12-19
[41] 2024-06-07
[30] US (63/430,789) 2022-12-07
[30] US (18/526,241) 2023-12-01

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[21] **3,227,658**
[13] A1
[51] **Int.Cl. G09F 3/10 (2006.01) A01G 9/029 (2018.01)**
[25] EN
[54] **HORTICULTURE LABEL STAKE**
[54] **PIQUET D~ETIQUETTE HORTICOLE**
[72] HONG, LE-HOA, US
[72] SATO, JAY, US
[71] CCL LABEL, INC., US
[22] 2024-01-30
[41] 2024-06-08
[30] US (63/431,109) 2022-12-08

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[21] **3,234,108**
[13] A1
[51] **Int.Cl. G08G 5/00 (2006.01) B64D 45/00 (2006.01)**
[25] EN
[54] **METHOD OF AND SYSTEM FOR GENERATING A FLIGHT LEG UNIQUE IDENTIFIER (FLUID)**
[54] **METHODE ET SYSTEME POUR GENERER UN IDENTIFIANT D~ETAPE DE VOL (FLUID)**
[72] SUCHOCKI, RAFAL, US
[71] CAE FLIGHT SERVICES USA, INC., US
[22] 2024-04-04
[41] 2024-06-04

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[21] **3,234,245**
[13] A1
[51] **Int.Cl. B01D 46/82 (2022.01) F24F 8/10 (2021.01) B01D 39/00 (2006.01) B03C 3/00 (2006.01)**
[25] EN
[54] **ELECTROCATALYTIC FILTER APPARATUS FOR A HEATING, VENTILATION AND AIR CONDITIONING SYSTEM**
[54] **APPAREIL A FILTRE ELECTROCATALYTIQUE POUR UN SYSTEME DE CHAUFFAGE, VENTILATION ET CLIMATISATION**
[72] HERRING, RODNEY, CA
[71] HERRING, RODNEY, CA
[22] 2024-04-04
[41] 2024-06-04

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,212,815**
[13] A1
[51] **Int.Cl. E02D 33/00 (2006.01) E02D 5/22 (2006.01) G01N 3/30 (2006.01)**
[25] EN
[54] **RAPID LOAD TEST METHOD FOR PILE BY USE OF SEGMENTAL UNLOADING POINT CONNECTION METHOD**
[54] **METHODE D'ESSAI DE CHARGEMENT RAPIDE POUR PIEU A L'AIDE D'UNE METHODE DE RACCORDEMENT PAR POINT DE DECHARGEMENT SEGMENTAIRE**
[72] YAMAMOTO, ISAKU, JP
[72] KAMEI, SHUICHI, JP
[72] MATSUMOTO, TATSUNORI, JP
[72] KOBAYASHI, GO, JP
[72] LIN, SHIHCHUN, JP
[71] JIBANSHIKENJO CO., LTD., JP
[85] 2023-09-13
[86] 2022-12-06 (PCT/JP2022/044886)
[87] (3212815)

[21] **3,216,975**
[13] A1
[51] **Int.Cl. A01C 9/00 (2006.01) A01C 5/06 (2006.01) A01C 7/06 (2006.01) A01C 7/20 (2006.01) A01C 11/02 (2006.01)**
[25] EN
[54] **PLANTER SUITABLE FOR BLOCK SEEDS**
[54] **JARDINIERE POUR SEMENCES EN BLOC**
[72] LIAO, MIN, CN
[72] SU, CHAO, CN
[72] YANG, JIE, CN
[72] CHEN, RUI, CN
[72] ZHANG, YU, CN
[72] LI, XIUYIN, CN
[72] GAN, XIAOFENG, CN
[72] DENG, RUHU, CN
[72] YANG, HU, CN
[72] LI, JUNJU, CN
[72] XIA, HAILONG, CN
[72] WANG, JIARUI, CN
[71] XIHUA UNIVERSITY, CN
[85] 2023-10-18
[86] 2022-12-28 (PCT/CA2022/142896)
[87] (3216975)
[30] CN (202211566448.0) 2022-12-07

[21] **3,227,024**
[13] A1
[25] EN
[54] **RADIATION SHIELDING GLASS HAVING ZINC-BARIUM-BOROSILICATE COMPOSITION**
[54] **VERRE ANTIRADIATION PRESENTANT UNE COMPOSITION DE ZINC-BARYUM-BOROSILICATE**
[72] KURTULUS, RECEP, TR
[72] KAVAS, TANER, TR
[71] GUROK HOLDING B.V., NL
[85] 2024-01-24
[86] 2022-12-02 (PCT/IB2022/061710)
[87] (3227024)

[21] **3,231,452**
[13] A1
[51] **Int.Cl. A23J 3/34 (2006.01) A23L 33/19 (2016.01) A23C 21/02 (2006.01) A23J 1/20 (2006.01)**
[25] EN
[54] **DENATURED MILK PROTEINS AND METHODS OF MAKING THEM**
[54] **PROTEINES DE LAIT DENATUREES ET METHODES DE FABRICATION**
[72] TESFE, PAULOS, US
[72] LI, JIANCAI, US
[72] MAIER, BRADLEY, US
[72] MERRILL, RICHARD K., US
[71] LEPRINO FOODS COMPANY, US
[85] 2024-03-08
[86] 2024-03-11 (PCT/US2023/081034)
[87] (3231452)
[30] US (18/097,003) 2023-01-13
[30] US (18/503,535) 2023-11-07

[21] **3,232,853**
[13] A1
[51] **Int.Cl. C07F 9/30 (2006.01) C07C 229/20 (2006.01) C07F 9/28 (2006.01)**
[25] EN
[54] **PREPARATION METHOD OF GLUFOSINATE OR DERIVATIVES THEREOF**
[54]
[72] ZUO, XIANG, CN
[72] YIN, YINGSUI, CN
[72] LI, YUEDONG, CN
[72] LIU, YONGJIANG, CN
[72] QIN, YUTING, CN
[72] CHENG, KE, CN
[72] ZENG, XIAOLIANG, CN
[71] LIER CHEMICAL CO., LTD., CN
[85] 2024-03-22
[86] 2023-03-24 (PCT/CN2023/083701)
[87] (3232853)
[30] CN (202211545734.9) 2022-12-02

[21] **3,234,921**
[13] A1
[51] **Int.Cl. G01F 1/84 (2006.01)**
[25] EN
[54] **CORIOLIS FLOWMETER WITH MULTIPLE FLOW TUBES**
[54] **DEBITMETRE DE CORIOLIS COMPRENANT DE MULTIPLES TUBES DE DEBIT**
[72] WANG, TAO, CN
[72] ROLPH, CHRIS, CN
[72] SHANG, BAOYUAN, CN
[71] WALSN MEASUREMENT AND CONTROL TECHNOLOGY (HEBEI) CO., LTD, CN
[71] WALSN LIMITED, GB
[85] 2024-04-11
[86] 2023-03-13 (PCT/CN2023/080963)
[87] (3234921)
[30] CN (202211552633.4) 2022-12-06

[21] **3,239,296**
[13] A1
[51] **Int.Cl. G06Q 20/06 (2012.01) G06Q 20/22 (2012.01) G06Q 20/38 (2012.01)**
[25] EN
[54] **OMNIBUS ADDRESS GENERATION AND AUTOCONVERSION OF CRYPTOCURRENCY**
[54] **GENERATION D'ADRESSES OMNIBUS ET AUTOCONVERSION DE CRYPTOMONNAIE**
[72] KINSEY, DUSTIN, US
[72] LI, JASON, US
[72] CAI, JIM, US
[71] COINBASE, INC., US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/076628)
[87] (WO2023/064666)
[30] US (17/502,419) 2021-10-15

[21] **3,239,559**
[13] A1
[25] EN
[54] **VIBRATION DAMPING DEVICE, CAB AND COLLABORATIVE OPTIMIZATION METHOD FOR FATIGUE LIFE AND LIGHTWEIGHT OF CAB**
[54]
[72] NI, XIANGYU, CN
[72] ZHANG, DA, CN
[72] XU, YUBING, CN
[72] ZHUANG, CHAO, CN
[71] JIANGSU XCMG STATE KEY LABORATORY TECHNOLOGY CO., LTD., CN
[85] 2024-05-29
[86] 2022-12-08 (PCT/CN2022/137398)
[87] (3239559)
[30] CN (202211553046.7) 2022-12-06

[21] **3,239,646**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61P 3/06 (2006.01)**
[25] EN
[54] **LINC COMPLEX INHIBITING POLYPEPTIDES**
[54] **POLYPEPTIDES INHIBITEURS DE COMPLEXE LINC**
[72] LEE, YIN LOON, SG
[72] BURKE, BRIAN, SG
[72] WERNER, HENDRIKJE, SG
[72] TAN, YANN CHONG, SG
[72] RUSSELL, DAVID W., SG
[71] AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH, SG
[71] NUEVOCOR PTE. LTD., SG
[85] 2024-05-30
[86] 2022-11-30 (PCT/SG2022/050871)
[87] (WO2023/101607)
[30] SG (10202113391P) 2021-12-01

[21] **3,239,652**
[13] A1
[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/14 (2006.01) A61F 5/058 (2006.01)**
[25] EN
[54] **ORTHOTIC BRACE AND CLIP ATTACHMENT MECHANISM AND ORTHOTIC SPRING TENSIONER**
[54] **MECANISME DE FIXATION DE PINCE ET D'ATTELLE ORTHETIQUE ET TENDEUR DE RESSORT ORTHETIQUE**
[72] MITCHELL, LUCAS J., US
[72] POWELL, MARCUS WILLIAM, US
[72] TWYMAN, SHAWN EDWARD, US
[71] MD ORTHOPAEDICS, INC., US
[85] 2024-05-30
[86] 2022-11-30 (PCT/US2022/051443)
[87] (WO2023/102072)
[30] US (63/284,411) 2021-11-30
[30] US (63/284,416) 2021-11-30
[30] US (63/340,206) 2022-05-10

[21] **3,239,661**
[13] A1
[51] **Int.Cl. H02G 15/107 (2006.01) H02G 15/184 (2006.01)**
[25] EN
[54] **CABLE JOINT**
[54] **RACCORD DE CABLE**
[72] LANGENS, ACHIM, DE
[71] HSP HOCHSPANNUNGSGERATE GMBH, DE
[85] 2024-05-30
[86] 2021-11-30 (PCT/EP2021/083545)
[87] (WO2023/098973)

[21] **3,239,663**
[13] A1
[51] **Int.Cl. A23P 10/25 (2016.01) A23P 30/20 (2016.01) A23P 30/34 (2016.01)**
[25] EN
[54] **REDUCED OR ZERO ADDED SODIUM SNACK FOOD PELLETS**
[54] **GRANULES D?ALIMENT DE TYPE EN-CAS A TENEUR EN SODIUM AJOUTE REDUITE OU NULLE**
[72] DUCKWORTH, RACHEL, CH
[72] JONES, DAVID, CH
[72] PATEL, BHAVNITA, CH
[72] PATEL, ROSHNI, CH
[72] TALSANIA, MONICA, CH
[71] FRITO-LAY TRADING COMPANY GMBH, CH
[85] 2024-05-30
[86] 2022-11-30 (PCT/EP2022/083890)
[87] (WO2023/099583)
[30] GB (2117360.4) 2021-12-01

[21] **3,239,665**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) C12N 5/071 (2010.01)**
[25] EN
[54] **METHOD FOR REPAIRING HAIR CYCLE-RELATED GENES AND METHOD FOR TREATING HAIR CYCLE-RELATED DISEASES USING MIR-520D-5P**
[54] **PROCEDE DE REPARATION DE GENES LIES A UN CYCLE DES CHEVEUX ET PROCEDE DE TRAITEMENT DE MALADIES LIEES A UN CYCLE DES CHEVEUX A L'AIDE DE MIR-520D-5P**
[72] MIURA, NORIMASA, SG
[71] LIVIUS PTE. LTD., SG
[85] 2024-05-30
[86] 2022-12-16 (PCT/SG2022/050912)
[87] (WO2023/128862)
[30] SG (10202114489Q) 2021-12-29

[21] **3,239,667**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 39/00 (2006.01) A61P 11/06 (2006.01) A61P 37/06 (2006.01) C07K 16/24 (2006.01)**
[25] EN
[54] **INTERLEUKIN 5 BINDING PROTEIN DOSAGE REGIMEN FOR USE IN TREATING POLYANGIITIS, HYPEREOSINOPHILIC SYNDROME, HYPEREOSINOPHILIC SYNDROME CHRONIC RHINOSINUSITIS WITH NASAL POLYPS (CRSWNP), OR CHRONIC RHINOSINUSITIS WITHOUT NASAL POLYPS (CRSSNP**
[54] **REGIME POSOLOGIQUE A BASE DE PROTEINE DE LIAISON A L'INTERLEUKINE 5 DESTINE A ETRE UTILISE DANS LE TRAITEMENT DE LA POLYANGEITE, DU SYNDROME HYPEREOSINOPHILE, DU SYNDROME HYPEREOSINOPHILE, DE LA RHINO-SINUSITE CHRONIQUE AVEC POLYPES NASAUX (CRSWNP), OU DE LA RHINO-SINUSITE CHRONIQUE SANS POLYPES NASAUX (CRSSNP**
[72] AUSTIN, DAREN J, GB
[72] BERGES, ALIENOR C, GB
[72] BIRD, NICHOLAS P, GB
[72] MONCK, MYRNA A, US
[72] POULIQUEN, ISABELLE J, GB
[72] SHUMAN, MELISSA A, US
[72] ZECCHIN, CHIARA, GB
[71] GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GB
[85] 2024-05-30
[86] 2022-12-01 (PCT/EP2022/084075)
[87] (WO2023/099668)
[30] US (63/285,513) 2021-12-03
[30] EP (PCT/EP2021/086689) 2021-12-20
[30] US (63/349,622) 2022-06-07

[21] **3,239,668**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/53 (2006.01) A61P 35/00 (2006.01) C07D 487/22 (2006.01) C07D 498/18 (2006.01) C07D 498/22 (2006.01)**
[25] EN
[54] **2,7-SUBSTITUTED PYRROLO[2,1-F][1,2,4]TRIAZINE COMPOUND HAVING PROTEIN KINASE INHIBITORY ACTIVITY**
[54] **COMPOSE DE PYRROLO[2,1-F][1,2,4]TRIAZINE SUBSTITUE EN POSITIONS 2 ET 7 AYANT UNE ACTIVITE INHIBITRICE DE PROTEINE KINASE**
[72] SIM, TAE BO, KR
[72] SHIN, IN JAE, KR
[72] SANDIP, SENGUPTA, KR
[72] KIM, NAM KYOUNG, KR
[72] KIM, YOUNG HOON, KR
[72] CHOI, HA SOON, KR
[71] MAGICBULLETTHERAPEUTICS CO., LTD., KR
[85] 2024-05-30
[86] 2022-11-30 (PCT/KR2022/019157)
[87] (WO2023/101387)
[30] KR (10-2021-0169177) 2021-11-30
[30] KR (10-2022-0162449) 2022-11-29

[21] **3,239,671**
[13] A1
[51] **Int.Cl. A63B 59/40 (2015.01) A63B 59/56 (2015.01) A63B 59/80 (2015.01) A63B 60/50 (2015.01)**
[25] EN
[54] **OPEN THROAT PADDLE**
[54] **RAQUETTE A COEUR OUVERT**
[72] BARNES, ROBERT JAMES, US
[72] BARNES, JAMES FRANCIS, US
[72] BARNES, MICHAEL JAMES, US
[71] SELKIRK SPORT, LLC, US
[85] 2024-05-30
[86] 2022-12-16 (PCT/US2022/053197)
[87] (WO2023/114486)
[30] US (63/290,461) 2021-12-16

[21] **3,239,674**
[13] A1
[51] **Int.Cl. G06F 21/64 (2013.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) H04L 9/32 (2006.01)**
[25] EN
[54] **METHODS FOR DISTRIBUTED DATA MANAGEMENT**
[54] **PROCEDES DE GESTION DE DONNEES DISTRIBUEES**
[72] WESTLAKE, COLIN PHILLIP, GB
[71] WESTLAKE, COLIN PHILLIP, GB
[85] 2024-05-30
[86] 2022-12-01 (PCT/GB2022/053054)
[87] (WO2023/099901)
[30] US (63/284,816) 2021-12-01

[21] **3,239,678**
[13] A1
[51] **Int.Cl. A01K 61/73 (2017.01) A01K 61/78 (2017.01)**
[25] EN
[54] **DEVICE FOR THE PROLIFERATION OF UNDERWATER BIODIVERSITY**
[54] **DISPOSITIF POUR LA PROLIFERATION D'UNE BIODIVERSITE SOUS-MARINE**
[72] FERRER PELLICER, IGNACIO, ES
[72] DE MAS ROMEU, MIREIA, ES
[71] OCEAN ECOSTRUCTURES S.L., ES
[85] 2024-05-30
[86] 2022-12-02 (PCT/IB2022/061693)
[87] (WO2023/100144)
[30] EP (21383095.3) 2021-12-03

[21] **3,239,679**
[13] A1
[51] **Int.Cl. D06F 25/00 (2006.01) D06F 58/00 (2020.01)**
[25] EN
[54] **LAUNDRY TREATMENT APPARATUS**
[54] **DISPOSITIF DE TRAITEMENT DE VETEMENTS**
[72] LI, XING, CN
[72] DUAN, CHUANLIN, CN
[72] YAN, YADONG, CN
[72] YANG, ZHIMIN, CN
[72] QUAN, GANG, CN
[71] SHENZHEN ROBOROCK INNOVATION TECHNOLOGY CO., LTD., CN
[85] 2024-05-30
[86] 2022-11-30 (PCT/CN2022/135667)
[87] (WO2023/098763)
[30] CN (202111450553.3) 2021-11-30
[30] CN (PCT/CN2022/116387) 2022-08-31

[21] **3,239,683**
[13] A1
[51] **Int.Cl. A61K 35/28 (2015.01) A61K 35/51 (2015.01)**
[25] EN
[54] **MITOCHONDRIAL AUGMENTATION THERAPY FOR MYELODYSPLASTIC SYNDROME**
[54] **THERAPIE D'AUGMENTATION MITOCHONDRIALE POUR LE SYNDROME MYELODYSPLASIQUE**
[72] YIVGI-OHANA, NATALIE, IL
[72] SHER, NOA, IL
[71] MINOVIA THERAPEUTICS LTD., IL
[85] 2024-05-30
[86] 2022-12-01 (PCT/IL2022/051280)
[87] (WO2023/112018)
[30] US (63/289,069) 2021-12-13

[21] **3,239,685**
[13] A1
[51] **Int.Cl. G06F 21/10 (2013.01) G06Q 30/018 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR VERIFYING, AUTHENTICATING AND TAGGING OF CONTENT CREATORS**
[54] **SYSTEME ET PROCEDE DE VERIFICATION, D'AUTHENTIFICATION ET DE MARQUAGE DE CREATEURS DE CONTENU**
[72] KILLIAN, JOHN MICHAEL, IE
[72] MCCAULEY, CHRISTOPHER ANTHONY, IE
[71] SPRIG TECHNOLOGIES LTD., IE
[85] 2024-05-30
[86] 2022-12-07 (PCT/IB2022/061889)
[87] (WO2023/105443)
[30] US (17/545,175) 2021-12-08

[21] **3,239,686**
[13] A1
[51] **Int.Cl. C01B 3/06 (2006.01)**
[25] EN
[54] **METHOD FOR DISSOCIATING WATER MOLECULES TO OBTAIN HYDROGEN AND OXYGEN GAS AND APPARATUS FOR DISSOCIATING WATER MOLECULES**
[54] **PROCEDE DE DISSOCIATION DE MOLECULES D'EAU POUR L'OBTENTION D'HYDROGENE ET D'OXYGENE GAZEUX ET APPAREIL DE DISSOCIATION DE MOLECULES D'EAU**
[72] KORBEL, VIKTOR, CZ
[71] ADASUNE S.R.O., CZ
[85] 2024-05-30
[86] 2022-12-13 (PCT/CZ2022/050130)
[87] (WO2023/109989)
[30] CZ (2021-568) 2021-12-14

[21] **3,239,690**
[13] A1
[51] **Int.Cl. C07D 307/68 (2006.01) C07C 219/06 (2006.01) C07C 237/20 (2006.01) C07D 211/58 (2006.01) C07D 295/125 (2006.01) C07D 405/04 (2006.01) C07D 405/06 (2006.01) C07D 495/14 (2006.01)**
[25] EN
[54] **NOVEL COMPOUND FOR DEGRADING TARGET PROTEIN OR POLYPEPTIDE BY USING POLYUBIQUITINATION**
[54] **NOUVEAU COMPOSE POUR DEGRADER UNE PROTEINE OU UN POLYPEPTIDE CIBLE PAR POLYUBIQUITINATION**
[72] INN, KYUNG SOO, KR
[72] KIM, NAM JUNG, KR
[72] LEE, JONG KIL, KR
[72] KIM, GA YEONG, KR
[72] KIM, KYEO JIN, KR
[72] KIM, DONG HWAN, KR
[72] KIM, SO YOUNG, KR
[72] KIM, SOO LIM, KR
[72] KIM, HEE JIN, KR
[72] DO, JI MIN, KR
[72] MIN, CHAN KI, KR
[72] SEO, MIN JUNG, KR
[72] SONG, CHAE WON, KR
[72] LEE, NA RAE, KR
[72] LEE, HYE WON, KR
[72] SON, SEUNG HWAN, KR
[72] LEE, DAN BI, KR
[72] LEE, SE IN, KR
[71] PRAZER THERAPEUTICS INC., KR
[85] 2024-05-30
[86] 2022-12-14 (PCT/KR2022/020310)
[87] (WO2023/113457)
[30] KR (10-2021-0178569) 2021-12-14
[30] KR (10-2022-0067712) 2022-06-02

[21] **3,239,693**
[13] A1
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 50/531 (2021.01) H01M 50/538 (2021.01)**
[25] EN
[54] **RESISTANCE-REDUCED CYLINDRICAL CELL**
[54] **BATTERIE CYLINDRIQUE A RESISTANCE REDUITE**
[72] LIM, HAE JIN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-30
[86] 2022-11-30 (PCT/KR2022/019219)
[87] (WO2023/101422)
[30] KR (10-2021-0169768) 2021-12-01

[21] **3,239,695**
[13] A1
[51] **Int.Cl. B01D 53/04 (2006.01) B01J 20/02 (2006.01) B01J 20/28 (2006.01)**
[25] EN
[54] **VAPOR ADSORBENT FOR ENCLOSED VOLUMES**
[54] **ADSORBANT DE VAPEUR POUR VOLUMES FERMES**
[72] BUTTERWORTH, STEVEN L., US
[71] CALGON CARBON CORPORATION, US
[85] 2024-05-30
[86] 2022-12-01 (PCT/US2022/080724)
[87] (WO2023/102461)
[30] US (63/264,759) 2021-12-01

[21] **3,239,696**
[13] A1
[51] **Int.Cl. B28D 1/14 (2006.01) B28D 7/00 (2006.01)**
[25] EN
[54] **AUTOMATIC DRIVING AND ACCURATE POSITIONING DRILLING ROBOT**
[54] **ROBOT DE FORAGE A CONDUITE AUTONOME ET POSITIONNEMENT PRECIS**
[72] REN, YUXING, CN
[72] XIE, SHAOQIN, CN
[72] WONG, KIT NGA, CN
[72] NG, KA KUI, CN
[72] LI, SEAN, CN
[72] XIAO, MINGXIANG, CN
[71] CSC ROBOTIC ENGINEERING LIMITED, CN
[85] 2024-05-30
[86] 2023-10-26 (PCT/CN2023/126629)
[87] (WO2024/109433)
[30] CN (202223107944.8) 2022-11-23

[21] **3,239,697**
[13] A1
[51] **Int.Cl. A61B 5/11 (2006.01) A61B 5/107 (2006.01) G01G 19/414 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR AUTOMATED WEIGHT-BASED MEDICATION DOSE PREPARATION**
[54] **PROCEDES ET SYSTEMES DE PREPARATION AUTOMATISEE DE DOSES DE MEDICAMENT SUR LA BASE DU POIDS**
[72] POWELL, GEORGIA KATHLEEN, CA
[72] ADDAB, SOFIA RANDA, CA
[72] LACOMBE, JEAN-GABRIEL, CA
[71] NURA MEDICAL INC., CA
[85] 2024-05-30
[86] 2022-12-07 (PCT/CA2022/051782)
[87] (WO2023/102651)
[30] US (63/288,060) 2021-12-10

[21] **3,239,700**
[13] A1
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/04 (2006.01) A61N 1/40 (2006.01)**
[25] EN
[54] **MEDICAL ELECTRODE**
[54] **ELECTRODE MEDICALE**
[72] MASKO, MARSHALL T., US
[72] VELURE, JOHN C., US
[72] DUNCAN, THU-HA, US
[71] I-LUMEN SCIENTIFIC, INC., US
[85] 2024-05-30
[86] 2022-11-28 (PCT/US2022/051076)
[87] (WO2023/101910)
[30] US (29/817,501) 2021-12-01

[21] **3,239,703**
[13] A1
[51] **Int.Cl. C21B 3/02 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING A FERROUS ALLOY IN A METALLURGICAL FURNACE**
[54] **PROCEDE DE PRODUCTION D'UN ALLIAGE FERREUX DANS UN FOUR METALLURGIQUE**
[72] OREFICI, LUCA, IT
[72] MAPELLI, CARLO, IT
[71] PIPEX ENERGY S.R.L., IT
[85] 2024-05-30
[86] 2022-12-15 (PCT/IB2022/062279)
[87] (WO2023/111927)
[30] IT (102021000031460) 2021-12-15

[21] **3,239,705**
[13] A1
[51] **Int.Cl. A24F 40/70 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **CARTRIDGE PACKAGING SYSTEMS AND METHODS**
[54] **PROCEDES ET SYSTEMES D'EMBALLAGE DE CARTOUCHE**
[72] KWON, ALEX, US
[72] HWANG, STEVEN, US
[72] GORDON, ALEX, US
[71] NEXT LEVEL VENTURES LLC, US
[85] 2024-05-30
[86] 2022-12-02 (PCT/US2022/051704)
[87] (WO2023/102218)
[30] US (63/285,323) 2021-12-02

[21] **3,239,706**
[13] A1
[51] **Int.Cl. A61B 18/04 (2006.01) A61B 18/14 (2006.01)**
[25] EN
[54] **DEVICES AND METHODS FOR TREATING LUNG TUMORS**
[54] **DISPOSITIFS ET PROCEDES POUR LE TRAITEMENT DU CANCER DU POUMON**
[72] KIM, JUNE-HONG, KR
[71] TAU MEDICAL INC., US
[71] INSTITUTE FOR RESEARCH & INDUSTRY COOPERATION,, PUSAN NATIONAL UNIVER..., KR
[71] TAU MEDICAL INC., KR
[85] 2024-05-30
[86] 2022-12-02 (PCT/US2022/051727)
[87] (WO2023/102235)
[30] US (63/285,982) 2021-12-03
[30] US (63/291,428) 2021-12-19
[30] US (63/341,359) 2022-05-12
[30] US (63/351,384) 2022-06-11
[30] US (63/351,430) 2022-06-12
[30] US (63/358,806) 2022-07-06
[30] EP (22189768.9) 2022-08-10
[30] US (63/417,600) 2022-10-19

[21] **3,239,707**
[13] A1
[51] **Int.Cl. E21B 33/043 (2006.01) E21B 23/02 (2006.01) E21B 33/035 (2006.01) E21B 33/04 (2006.01)**
[25] EN
[54] **DOWNHOLE TOOL, ASSEMBLY AND ASSOCIATED METHODS**
[54] **OUTIL DE FOND DE TROU, ENSEMBLE ET PROCEDES ASSOCIES**
[72] VINGE, TORSTEIN, NO
[72] OVSTEBO, TOMMY, NO
[71] EQUINOR ENERGY AS, NO
[85] 2024-05-30
[86] 2022-11-29 (PCT/NO2022/050274)
[87] (WO2023/101560)
[30] GB (2117446.1) 2021-12-02

[21] **3,239,708**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) G01N 33/50 (2006.01) G01N 33/566 (2006.01)**
[25] EN
[54] **NOVEL POTENCY ASSAY FOR ANTIBODY-BASED DRUGS AND USEFUL MEANS THEREFOR**
[54] **NOUVEAU DOSAGE DE PUISSANCE POUR DES MEDICAMENTS A BASE D'ANTICORPS ET MOYENS UTILES ASSOCIES**
[72] MICHALON, AUBIN, CH
[71] NEURIMMUNE AG, CH
[85] 2024-05-30
[86] 2022-12-05 (PCT/EP2022/084451)
[87] (WO2023/099788)
[30] EP (21212178.4) 2021-12-03

[21] **3,239,711**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) H04L 41/16 (2022.01) H04B 7/185 (2006.01)**
[25] EN
[54] **CARRIER ACQUISITION IN SATELLITE COMMUNICATIONS**
[54] **ACQUISITION DE PORTEUSE DANS DES COMMUNICATIONS PAR SATELLITE**
[72] FAN, ZENGQUAN, US
[72] JADHAV, KISH, US
[72] WHITEFIELD, DAVID, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2024-05-30
[86] 2022-09-22 (PCT/US2022/044357)
[87] (WO2023/101750)
[30] US (17/537,860) 2021-11-30

[21] **3,239,712**
[13] A1
[51] **Int.Cl. F24F 7/06 (2006.01)**
[25] EN
[54] **FLUID FLOW AUGMENTING DEVICE FOR A FLUID CIRCULATION SYSTEM**
[54] **DISPOSITIF D'AUGMENTATION D'ECOULEMENT DE FLUIDE POUR SYSTEME DE CIRCULATION DE FLUIDE**
[72] CAMPBELL, PAUL, CA
[72] SHANNON, DEREK, CA
[72] HAKKER, DARREN, CA
[72] WILLISTON, L. RICHARD, CA
[71] 2874108 ONTARIO LIMITED, CA
[85] 2024-05-30
[86] 2022-12-23 (PCT/CA2022/051898)
[87] (WO2023/115228)
[30] US (63/293,732) 2021-12-24
[30] US (63/364,336) 2022-05-06

[21] **3,239,713**
[13] A1
[51] **Int.Cl. A61K 47/54 (2017.01) A61K 47/68 (2017.01) C07D 257/08 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 498/14 (2006.01) C07F 9/6524 (2006.01) C07F 9/6558 (2006.01)**
[25] EN
[54] **HYDROPHILIC TETRAZINE-FUNCTIONALIZED PAYLOADS FOR PREPARATION OF TARGETING CONJUGATES**
[54] **CHARGES UTILES HYDROPHILES FONCTIONNALISEES A LA TETRAZINE DESTINEES A LA PREPARATION DE CONJUGUES DE CIBLAGE**
[72] LEMKE, EDWARD A., DE
[72] SCHULTZ, CARSTEN, US
[72] KOHLER, CHRISTINE, DE
[72] SAUTER, PAUL FELIX, DE
[71] EUROPEAN MOLECULAR BIOLOGY LABORATORY, DE
[71] VERAXA BIOTECH GMBH, DE
[85] 2024-05-30
[86] 2022-12-08 (PCT/EP2022/084914)
[87] (WO2023/104941)
[30] EP (21213081.9) 2021-12-08

[21] **3,239,714**
[13] A1
[51] **Int.Cl. B29C 48/80 (2019.01)**
[25] EN
[54] **TWO-DIRECTION MATERIAL HEATING SYSTEM**
[54] **SYSTEME DE CHAUFFAGE DE MATERIAU A DEUX DIRECTIONS**
[72] FARAG, SHERIF, CA
[72] ATTIA, MAI, CA
[71] FARAG, SHERIF, CA
[71] ATTIA, MAI, CA
[85] 2024-05-30
[86] 2022-12-22 (PCT/CA2022/051890)
[87] (WO2023/122832)
[30] US (63/295,834) 2021-12-31
[30] US (63/354,687) 2022-06-23

[21] **3,239,715**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CDH6 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES THEREOF**
[54] **ANTICORPS ANTI-CDH6 ET CONJUGUES ANTICORPS-MEDICAMENT DE CEUX-CI**
[72] MENG, XUN, CN
[72] LIU, SHU-HUI, CN
[72] SHI, JING, CN
[72] WANG, MINGQIAO, CN
[72] PAN, RONG, CN
[72] JIANG, YUEYUN, CN
[72] WANG, YIQIANG, CN
[72] WANG, ZHAOHUI, CN
[71] MULTITUDE THERAPEUTICS INC., CN
[85] 2024-05-30
[86] 2022-12-09 (PCT/CN2022/137932)
[87] (WO2023/104188)
[30] CN (202111507685.5) 2021-12-10
[30] CN (PCT/CN2021/136994) 2021-12-10

[21] **3,239,716**
[13] A1
[51] **Int.Cl. H04W 4/06 (2009.01)**
[25] EN
[54] **COMMUNICATION METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION**
[72] XU, SHENGFENG, CN
[72] LI, MENG, CN
[72] YANG, YANMEI, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-05-30
[86] 2022-12-21 (PCT/CN2022/140808)
[87] (WO2023/125211)
[30] CN (202111672790.4) 2021-12-31
[30] CN (202210239509.6) 2022-03-11

[21] **3,239,717**
[13] A1
[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 487/00 (2006.01) C07D 491/04 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS GCN2 AND PERK KINASE INHIBITORS**
[54] **COMPOSES HETEROCYCLIQUES UTILISES COMME INHIBITEURS DES KINASES GCN2 ET PERK**
[72] AHN, YU MI, US
[72] AL-ANI, GADA, US
[72] FLYNN, DANIEL L., US
[72] JAVED, SALIM, US
[72] KEARNEY, PATRICK, US
[72] LE BOURDONNEC, BERTRAND, US
[72] STOLTZ, KRISTEN, US
[72] ZWICKER, JEFFERY, US
[71] DECIPHERA PHARMACEUTICALS, LLC, US
[85] 2024-05-30
[86] 2022-12-02 (PCT/US2022/051717)
[87] (WO2023/102228)
[30] US (63/285,833) 2021-12-03

[21] **3,239,718**
[13] A1
[51] **Int.Cl. E05B 15/00 (2006.01) E05B 17/00 (2006.01) E05B 17/04 (2006.01) E05B 27/00 (2006.01) E05B 47/00 (2006.01) E05B 47/02 (2006.01) E05B 47/06 (2006.01) E05B 63/00 (2006.01)**
[25] EN
[54] **LOCK WITH OVERRIDE MECHANISM**
[54] **VERROU DOTE D'UN MECANISME D'INTERRUPTION**
[72] REVANASIDDAIAH, SHIVALINGASWAMY M., IN
[72] PADDILLAYA, NARESH, IN
[72] DHANVANTRI, ACHYUTA, IN
[72] TELANG, RAVI, IN
[71] SCHLAGE LOCK COMPANY LLC, US
[85] 2024-05-30
[86] 2022-11-30 (PCT/US2022/051377)
[87] (WO2023/102030)
[30] US (17/538,033) 2021-11-30

[21] **3,239,719**
[13] A1
[51] **Int.Cl. C03C 1/00 (2006.01) C03C 3/091 (2006.01) C03C 13/00 (2006.01) C03C 13/06 (2006.01)**
[25] FR
[54] **RECYCLED GLASS WOOL FUSION AND FIBERIZING**
[54] **FUSION ET FIBRAGE DE LAINE DE VERRE RECYCLEE**
[72] GUILLET, ANTOINE, FR
[72] JANUSZ, MARCIN, PL
[71] SAINT-GOBAIN ISOVER, FR
[85] 2024-05-30
[86] 2022-12-20 (PCT/FR2022/052437)
[87] (WO2023/118728)
[30] FR (FR2114175) 2021-12-21

[21] **3,239,720**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01) A61K 31/4965 (2006.01)**
[25] EN
[54] **TRANSDERMAL THERAPEUTIC SYSTEM FOR THE TRANSDERMAL ADMINISTRATION OF SELEXIPAG**
[54] **SYSTEME THERAPEUTIQUE TRANSDERMIQUE POUR L'ADMINISTRATION TRANSDERMIQUE DE SELEXIPAG**
[72] HAMMES, FLORIAN, DE
[72] TOMELERI, ANJA, DE
[72] KLEUDGEN, TOBIAS, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2024-05-30
[86] 2023-01-26 (PCT/EP2023/051945)
[87] (WO2023/144276)
[30] EP (22153580.0) 2022-01-27

[21] **3,239,721**
[13] A1
[51] **Int.Cl. D04H 1/4209 (2012.01) D04H 1/4266 (2012.01) D04H 1/587 (2012.01) C03C 25/32 (2018.01) D04H 1/64 (2012.01)**
[25] FR
[54] **METHOD FOR PRODUCING INSULATION PRODUCTS BASED ON MINERAL FIBRES OR ORGANIC FIBRES OF NATURAL ORIGIN**
[54] **PROCEDE DE FABRICATION DE PRODUITS D'ISOLATION A BASE DE FIBRES MINERALES OU DE FIBRES ORGANIQUES NATURELLES**
[72] SOISSON, ARNAUD, FR
[71] SAINT-GOBAIN ISOVER, FR
[85] 2024-05-30
[86] 2022-12-15 (PCT/FR2022/052374)
[87] (WO2023/111465)
[30] FR (2113776) 2021-12-17

[21] **3,239,722**
[13] A1
[51] **Int.Cl. G01S 7/497 (2006.01) G01S 7/481 (2006.01)**
[25] EN
[54] **MODULAR LIDAR SYSTEM AND RELATED METHODS**
[54] **SYSTEME LIDAR MODULAIRE ET PROCEDES ASSOCIES**
[72] PELLETIER, MAUDE, CA
[72] KLEIN, ANDREAS, CA
[72] GRAVIT, SEBASTIEN, CA
[71] 9459-6467 QUEBEC INC., CA
[85] 2024-05-30
[86] 2022-12-01 (PCT/CA2022/051757)
[87] (WO2023/097396)
[30] US (63/264,754) 2021-12-01

[21] **3,239,723**
[13] A1
[51] **Int.Cl. G06K 19/077 (2006.01) G06Q 10/087 (2023.01) G06K 7/10 (2006.01) G06K 19/07 (2006.01)**
[25] EN
[54] **SYSTEMS, DEVICES AND METHODS OF TRACKING INVENTORY**
[54] **SYSTEMES, DISPOSITIFS ET PROCEDES DE SUIVI DE STOCKS**
[72] BUHLER, JAMES, CA
[72] ELIAS, LUKE, CA
[71] BUHLER, JAMES, CA
[71] ELIAS, LUKE, CA
[85] 2024-05-30
[86] 2023-08-22 (PCT/CA2023/051109)
[87] (WO2024/040340)
[30] US (63/399,877) 2022-08-22

[21] **3,239,724**
[13] A1
[51] **Int.Cl. G06V 10/60 (2022.01) G06V 10/82 (2022.01) G06V 20/17 (2022.01)**
[25] EN
[54] **ANGLE-AWARE OBJECT CLASSIFICATION**
[54] **CLASSIFICATION D'OBJETS SENSIBLE A L'ANGLE**
[72] ERIBERG, TAPIO, FI
[72] LAURILA, PEKKA, FI
[72] STRONG, SHAY, FI
[71] ICEYE OY, FI
[85] 2024-05-30
[86] 2022-11-30 (PCT/EP2022/083868)
[87] (WO2023/110404)
[30] GB (2118441.1) 2021-12-17

[21] **3,239,725**
[13] A1
[51] **Int.Cl. A61L 24/00 (2006.01)**
[25] FR
[54] **BONE ADHESIVE COMPOSITION**
[54] **COMPOSITION ADHESIVE OSSEUSE**
[72] SCHLUND, MATHIAS, FR
[72] CHAI, FENG, FR
[72] LYSKAWA, JOEL, FR
[72] FERRI, JOEL, FR
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE LILLE, FR
[71] UNIVERSITE DE LILLE, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] CENTRALE LILLE INSTITUT, FR
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[85] 2024-05-30
[86] 2022-12-16 (PCT/FR2022/052402)
[87] (WO2023/111485)
[30] FR (FR2113780) 2021-12-17

[21] **3,239,726**
[13] A1
[51] **Int.Cl. G01N 33/547 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING AND TESTING BIOLOGICAL SAMPLES**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT ET D'ESSAI D'ECHANTILLONS BIOLOGIQUES**
[72] RUBY, TOM, US
[72] PIZZO, STEPHEN, US
[72] BULLOCH, KYLE, US
[72] NAWANA, NAMAL, US
[71] GRAPHENE-DX, INC., US
[85] 2024-05-30
[86] 2022-11-30 (PCT/US2022/051372)
[87] (WO2023/102027)
[30] US (63/285,029) 2021-12-01
[30] US (18/071,887) 2022-11-30

[21] **3,239,727**
[13] A1
[51] **Int.Cl. A61B 17/86 (2006.01) B25B 23/06 (2006.01)**
[25] EN
[54] **AUTOLOADING SCREWDRIVER APPARATUS**
[54] **APPAREIL TOURNEVIS A CHARGEMENT AUTOMATIQUE**
[72] NASR, MICHAEL, US
[71] BIO MED PRO LLC, US
[85] 2024-05-30
[86] 2022-11-29 (PCT/US2022/051270)
[87] (WO2023/101978)
[30] US (17/539,015) 2021-11-30

[21] **3,239,728**
[13] A1
[51] **Int.Cl. A61K 31/404 (2006.01) C07D 209/12 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **METHODS OF TREATING CANCER**
[54] **METHODES DE TRAITEMENT DU CANCER**
[72] SCHALM, STEFANIE, US
[72] CHEN, DAPENG, US
[72] PROCTOR, WILLIAM, US
[72] GROWNEY, JOSEPH, US
[72] WILLIAMS, JULIET, US
[72] ENERSON, BRADLEY, US
[72] CHUTAKE, YOGESH, US
[72] MAYO, MICHELE, US
[72] QI, JIANFENG, US
[72] HO, CHRIS, US
[72] WEISS, MATTHEW M., US
[72] RONG, HAOJING, US
[72] MCDONALD, ALICE, US
[71] KYMERA THERAPEUTICS, INC., US
[85] 2024-05-30
[86] 2022-12-15 (PCT/US2022/081699)
[87] (WO2023/114933)
[30] US (63/265,474) 2021-12-15
[30] US (63/375,820) 2022-09-15
[30] US (63/384,043) 2022-11-16

[21] **3,239,729**
[13] A1
[51] **Int.Cl. B27N 3/04 (2006.01) B27N 1/00 (2006.01)**
[25] EN
[54] **BALSA-LIKE WOOD ALTERNATIVE PRODUCTS AND METHODS FOR PREPARING SAME**
[54] **PRODUITS DE SUBSTITUTION DU BOIS DE TYPE BALSA ET LEURS PROCEDES DE PREPARATION**
[72] BALTHES, GARRY, CA
[72] NICHOLAS, KARL, CA
[71] INCA RENEWABLE TECHNOLOGIES INC., CA
[85] 2024-05-30
[86] 2022-12-07 (PCT/CA2022/000059)
[87] (WO2023/102636)
[30] US (63/286,942) 2021-12-07

[21] **3,239,730**
[13] A1
[51] **Int.Cl. A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/41 (2006.01) A61K 31/427 (2006.01) A61K 31/4523 (2006.01) A61K 31/66 (2006.01)**
[25] EN
[54] **STAT3 DEGRADERS AND USES THEREOF**
[54] **AGENTS DE DEGRADATION DE STAT3 ET LEURS UTILISATIONS**
[72] DE SAVI, CHRISTOPHER, US
[72] HO, CHRIS, US
[72] RONG, HAOJING, US
[72] GOLLOB, JARED, US
[72] ENERSON, BRADLEY, US
[72] DEY, JOYOTI, US
[72] AGARWAL, SAGAR, US
[72] DIXIT, VAISHALI, US
[72] GOLLERKERI, ASHWIN, US
[72] MAYO, MICHELE, US
[72] YANG, BIN, US
[71] KYMERA THERAPEUTICS, INC., US
[85] 2024-05-30
[86] 2022-12-09 (PCT/US2022/052428)
[87] (WO2023/107706)
[30] US (63/265,275) 2021-12-11
[30] US (63/383,372) 2022-11-11

[21] **3,239,731**
[13] A1
[51] **Int.Cl. C07K 14/37 (2006.01) C07K 14/39 (2006.01) C12N 9/90 (2006.01) C12N 15/80 (2006.01) C12P 21/00 (2006.01)**
[25] EN
[54] **IMPROVED PRODUCTION OF SECRETED PROTEINS IN YEAST CELLS**
[54] **PRODUCTION AMELIOREE DE PROTEINES SECRETEES DANS DES CELLULES DE LEVURE**
[72] DESFOUGERES, THOMAS, FR
[72] DULERMO, THIERRY, FR
[72] PIGNEDE, GEORGES, FR
[72] STEINMETZ, LARS, DE
[72] JOHANSSON, S. ANDREAS, DE
[71] LESAFFRE ET COMPAGNIE, FR
[71] EUROPEAN MOLECULAR BIOLOGY LABORATORY, DE
[85] 2024-05-30
[86] 2022-12-07 (PCT/EP2022/084829)
[87] (WO2023/104902)
[30] EP (21213084.3) 2021-12-08

[21] **3,239,732**
[13] A1
[51] **Int.Cl. A61K 8/49 (2006.01) A61K 8/67 (2006.01) A61K 8/73 (2006.01)**
[25] EN
[54] **PERSONAL CARE COMPOSITION**
[54] **COMPOSITION DE SOINS PERSONNELS**
[72] BIAN, WEI, NL
[72] WEI, PING, NL
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2024-05-30
[86] 2022-11-08 (PCT/EP2022/081032)
[87] (WO2023/099130)
[30] CN (PCT/CN2021/134721) 2021-12-01
[30] EP (22151278.3) 2022-01-13

[21] **3,239,733**
[13] A1
[51] **Int.Cl. A01N 31/16 (2006.01) A01N 31/02 (2006.01) A01N 31/08 (2006.01) A61K 31/05 (2006.01)**
[25] EN
[54] **AN ANTIMICROBIAL COMPOSITION**
[54] **COMPOSITION ANTIMICROBIENNE**
[72] DASGUPTA, ANINDYA, NL
[72] SAJI, MAYA TREESA, NL
[72] SALGAONKAR, NEHA, NL
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2024-05-30
[86] 2022-12-01 (PCT/EP2022/083973)
[87] (WO2023/099633)
[30] IN (202121056268) 2021-12-03
[30] EP (22153771.5) 2022-01-27

[21] **3,239,734**
[13] A1
[51] **Int.Cl. A61K 31/352 (2006.01) A61P 15/00 (2006.01) A61P 15/16 (2006.01) A61P 15/18 (2006.01)**
[25] EN
[54] **STERILANTS COMPOSITION, KITS AND METHODS OF USE THEREOF**
[54] **COMPOSITION STERILISANTE, KITS ET PROCEDES D'UTILISATION ASSOCIES**
[72] BARR, TAMI, IL
[72] MAROM, HILIK, IL
[71] COMMUNITREAT LTD., IL
[85] 2024-05-30
[86] 2022-12-01 (PCT/IL2022/051283)
[87] (WO2023/100184)
[30] US (63/285,101) 2021-12-02

[21] **3,239,735**
[13] A1
[51] **Int.Cl. A61B 5/145 (2006.01) C12N 15/11 (2006.01) G06V 10/00 (2022.01)**
[25] EN
[54] **GENERATIVE ADVERSARIAL NETWORK FOR URINE BIOMARKERS**
[54] **RESEAU ANTAGONISTE GENERATIF POUR BIOMARQUEURS URINAIRES**
[72] YAZAR, WANZIN, US
[72] SARWAL, REUBEN, US
[72] GHOSH, SRINKA, US
[71] KIDNEYMETRIX INC., US
[85] 2024-05-30
[86] 2022-11-23 (PCT/US2022/050974)
[87] (WO2023/101886)
[30] US (63/284,590) 2021-11-30

[21] **3,239,740**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **HIGH SELECTIVE CD229 ANTIGEN BINDING DOMAINS AND METHODS OF USE**
[54] **DOMAINES DE LIAISON A L'ANTIGENE CD229 HAUTEMENT SELECTIFS ET LEURS PROCEDES D'UTILISATION**
[72] LEUTKENS, TIM C., US
[72] VANDER MAUSE, ERICA, US
[72] ATANACKOVIC, DJORDJE, US
[71] UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[71] UNIVERSITY OF MARYLAND BALTIMORE OFFICE OF TECHNOLOGY TRANSFER, US
[85] 2024-05-31
[86] 2022-12-02 (PCT/US2022/051680)
[87] (WO2023/102201)
[30] US (63/285,843) 2021-12-03

[21] **3,239,741**
[13] A1
[51] **Int.Cl. G06N 10/00 (2022.01)**
[25] EN
[54] **TECHNIQUE FOR PREPARING A FAULT-TOLERANT CLUSTER STATE**
[54] **TECHNIQUE DE PREPARATION D'UN ETAT DE GRAPPE INSENSIBLE AUX DEFAILLANCES**
[72] SAHAY, KAAVYA, US
[72] PURI, SHRUTI, US
[72] CLAES, JAHAN, US
[71] YALE UNIVERSITY, US
[85] 2024-05-31
[86] 2022-12-06 (PCT/US2022/051990)
[87] (WO2023/107475)
[30] US (63/286,362) 2021-12-06
[30] US (63/292,868) 2021-12-22

[21] **3,239,743**
[13] A1
[51] **Int.Cl. B60H 1/00 (2006.01) F25B 45/00 (2006.01)**
[25] EN
[54] **USER-GUIDED REFRIGERANT RECHARGE FOR VEHICLES**
[54] **RECHARGE DE FLUIDE FRIGORIGENE GUIDEE PAR UTILISATEUR POUR VEHICULES**
[72] KULKARNI, TUSHAR, US
[72] SHERMAN, MICHAEL K., US
[72] FAHSBENDER, JACOB, US
[72] BOURNE, CHRISTOPHER A., US
[72] CELESTINA, JOANNA LYNN, US
[72] TRAN, THANH NGOC, US
[71] ENERGIZER AUTO, INC., US
[85] 2024-05-31
[86] 2022-12-05 (PCT/US2022/051824)
[87] (WO2023/102260)
[30] US (63/264,898) 2021-12-03

[21] **3,239,744**
[13] A1
[51] **Int.Cl. H04W 84/06 (2009.01) H04W 88/02 (2009.01)**
[25] EN
[54] **DISTRIBUTED MULTIPLE-INPUT MULTIPLE-OUTPUT LOW EARTH ORBIT SATELLITE SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE SATELLITES A ORBITE BASSE A ENTREES MULTIPLES ET SORTIES MULTIPLES DISTRIBUES**
[72] ABDELSADEK, MOHAMMED, CA
[72] KARABULUT KURT, GUNES, CA
[72] YANIKOMEROGLU, HALIM, CA
[71] CARLETON UNIVERSITY, CA
[85] 2024-05-31
[86] 2022-12-05 (PCT/CA2022/051777)
[87] (WO2023/097408)
[30] US (63/264,890) 2021-12-03

[21] **3,239,745**
[13] A1
[51] **Int.Cl. H02K 5/04 (2006.01) H02K 5/20 (2006.01) H02K 5/22 (2006.01) H02K 7/10 (2006.01) H02K 9/19 (2006.01) H02K 9/26 (2006.01)**
[25] EN
[54] **ELECTRIC DRIVE UNIT WITH MOTOR ASSEMBLY ISOLATED FROM BEAMING LOADS TRANSMITTED THROUGH HOUSING ASSEMBLY**
[54] **UNITE D'ENTRAINEMENT ELECTRIQUE AVEC ENSEMBLE MOTEUR ISOLE DE CHARGES DE FLEXION TRANSMISES PAR L'INTERMEDIAIRE D'UN ENSEMBLE CARTER**
[72] DOWNS, JAMES P., US
[72] VALENTE, PAUL J., US
[71] AMERICAN AXLE & MANUFACTURING, INC., US
[85] 2024-05-31
[86] 2022-11-29 (PCT/US2022/051149)
[87] (WO2023/101925)
[30] US (63/264,743) 2021-12-01

[21] **3,239,746**
[13] A1
[51] **Int.Cl. B23K 26/064 (2014.01) G02B 27/09 (2006.01)**
[25] EN
[54] **LASER MARKING SYSTEM**
[54] **SYSTEME DE MARQUAGE LASER**
[72] BOERKAMP, MARTIJN JOSEPH, NL
[72] VAN DEN BOOM, FLOOR ANNA, NL
[71] INPHOCAL B.V., NL
[85] 2024-05-31
[86] 2022-12-02 (PCT/NL2022/050694)
[87] (WO2023/101553)
[30] NL (2030028) 2021-12-03

[21] **3,239,748**
[13] A1
[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/02 (2006.01)**
[25] EN
[54] **WINDOW DEFOGGER FOR SAMPLE PREPARATION SYSTEM**
[54] **DESEMBUEUR DE FENETRE POUR SYSTEME DE PREPARATION D'ECHANTILLON**
[72] NAVA, SIMON A., US
[71] BECKMAN COULTER, INC., US
[85] 2024-05-31
[86] 2022-12-02 (PCT/US2022/080851)
[87] (WO2023/102547)
[30] US (63/285,737) 2021-12-03
[30] US (63/294,736) 2021-12-29

[21] **3,239,749**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12N 9/22 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **METHOD OF EDITING NUCLEIC ACID**
[54] **PROCEDE D'EDITION D'ACIDE NUCLEIQUE**
[72] ZHAO, ZHIHAN, NL
[72] SHANG, PENG, NL
[72] GEIJSEN, NIELS, NL
[71] ACADEMISCH ZIEKENHUIS LEIDEN A/U LEIDEN UNIVERSITY MEDICAL CENTER, NL
[85] 2024-05-31
[86] 2022-12-02 (PCT/EP2022/084232)
[87] (WO2023/099746)
[30] GB (2117455.2) 2021-12-02

[21] **3,239,750**
[13] A1
[51] **Int.Cl. C12N 9/24 (2006.01) C12N 15/113 (2010.01) C12N 9/22 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **REDUCED EXPRESSION OF SARM1 FOR USE IN CELL THERAPY**
[54] **EXPRESSION REDUITE DE SARM1 POUR UNE UTILISATION EN THERAPIE CELLULAIRE**
[72] EMMANUEL, RAFI, IL
[72] GOLAN MASHIACH, MICHAL, IL
[72] DIAMANT, RACHEL, IL
[71] EMENDOBIO INC., US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/080749)
[87] (WO2023/102478)
[30] US (63/284,995) 2021-12-01

[21] **3,239,751**
[13] A1
[51] **Int.Cl. G06F 11/26 (2006.01)**
[25] EN
[54] **CONTAINER FOR DOSING A FLOWABLE SOLID**
[54] **RECIPIENT DE DOSAGE DE SOLIDE FLUIDIFIABLE**
[72] CORTADELLAS, XAVIER, US
[72] PEER, SYED, US
[72] WINGFIELD, TOBY RICHARD DAVID, US
[72] KWAK, ALBERT, US
[72] PARADISE, CHARLES SIMON, US
[72] WILLMER-SHILES, EMMA PEARL, US
[71] PEPSICO, INC., US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/051552)
[87] (WO2023/102128)
[30] US (17/457,368) 2021-12-02

[21] **3,239,752**
[13] A1
[51] **Int.Cl. A61K 45/06 (2006.01) A61P 17/02 (2006.01) A61P 17/12 (2006.01)**
[25] EN
[54] **METHODS OF TREATING LYMPHEDEMA**
[54] **METHODES DE TRAITEMENT D'UN LYMPHOEDEME**
[72] ROCKSON, STANLEY GLENN, US
[72] NICOLLS, MARK R., US
[72] JIANG, XINGUO, US
[72] TIAN, WEN, US
[72] SPRINGMAN, ERIC B., US
[72] HEFFERNAN, EILEEN, US
[71] CELLTAXIS, LLC, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2024-05-31
[86] 2022-12-08 (PCT/US2022/052230)
[87] (WO2023/107608)
[30] US (63/287,748) 2021-12-09

[21] **3,239,753**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/113 (2010.01) A61K 35/28 (2015.01)**
[25] EN
[54] **ENGINEERED HIGH ACTIVITY OMNI-79 NUCLEASE VARIANTS**
[54] **VARIANTS DE NUCLEASE OMNI-79 A HAUTE ACTIVITE GENETIQUEMENT MODIFIES**
[72] IZHAR, LIOR, IL
[72] EMMANUEL, RAFI, IL
[72] ROCKAH, LIAT, IL
[72] MAROM DAVID, MILIT, IL
[71] EMENDOBIO INC., US
[85] 2024-05-31
[86] 2022-11-30 (PCT/US2022/080627)
[87] (WO2023/102407)
[30] US (63/284,858) 2021-12-01

[21] **3,239,754**
[13] A1
[51] **Int.Cl. G01F 23/80 (2022.01) G01F 15/07 (2006.01)**
[25] EN
[54] **INSTRUMENTS, SYSTEMS, AND METHODS FOR MEASURING LIQUID FLOW THROUGH CHANNELS**
[54] **INSTRUMENTS, SYSTEMES ET PROCEDES DE MESURE D'ECOULEMENT DE LIQUIDE A TRAVERS DES CANAUX**
[72] CAO, ZHENNING, US
[72] FOLEY, JENNIFER, US
[72] DELATTRE, CYRIL, US
[72] PATEL, MAULIK, US
[72] MAR, CAMERON, US
[71] ILLUMINA, INC., US
[85] 2024-05-31
[86] 2022-12-21 (PCT/US2022/082103)
[87] (WO2023/122642)
[30] US (63/292,658) 2021-12-22

[21] **3,239,755**
[13] A1
[51] **Int.Cl. C08B 16/00 (2006.01) C08B 1/00 (2006.01) C08J 3/09 (2006.01) C08L 1/02 (2006.01) D01F 2/02 (2006.01)**
[25] EN
[54] **PROCESS FOR FABRICATION OF REGENERATED CELLULOSE YARNS DERIVED FROM RECYCLED WASTE FEEDSTOCKS**
[54] **PROCEDE DE FABRICATION DE FILS DE CELLULOSE REGENEREE DERIVES DE CHARGES DE DECHETS RECYCLES**
[72] HEIGHT, MURRAY, AU
[72] HERRERO ACERO, ENRIQUE, AT
[72] PIELES, UWE, DE
[71] HEIQ MATERIALS AG, CH
[71] TECHNIKUM LAUBHOLZ GMBH, DE
[85] 2024-05-31
[86] 2022-12-01 (PCT/EP2022/084070)
[87] (WO2023/104635)
[30] EP (21212418.4) 2021-12-06

[21] **3,239,759**
[13] A1
[51] **Int.Cl. H04L 41/14 (2022.01) H04L 41/16 (2022.01)**
[25] EN
[54] **DEPLOYING AND UPDATING MACHINE LEARNING MODELS OVER A COMMUNICATION NETWORK**
[54] **DEPLOIEMENT ET MISE A JOUR DE MODELES D'APPRENTISSAGE AUTOMATIQUE SUR UN RESEAU DE COMMUNICATION**
[72] GANESAN, VENKAT, US
[72] JAIN, KAUSTUBH, US
[72] BEAL, EDDIE, US
[72] SAMAVEDAM, KRISHNA, US
[71] HUGHES NETWORK SYSTEMS, LLC, US
[85] 2024-05-31
[86] 2022-12-15 (PCT/US2022/081693)
[87] (WO2023/114929)
[30] US (17/555,055) 2021-12-17

[21] **3,239,760**
[13] A1
[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/16 (2006.01) A61B 17/56 (2006.01)**
[25] EN
[54] **ARTICULATING ROTARY CUTTING TOOL**
[54] **OUTIL DE COUPE ROTATIF ARTICULE**
[72] BHATIA, SANJEEV, US
[72] MILLETT, PETER J., US
[72] ORRICO, JAMES, US
[71] JOINT PRESERVATION INNOVATIONS, LLC, US
[85] 2024-05-31
[86] 2021-12-17 (PCT/US2021/064168)
[87] (WO2023/113827)

[21] **3,239,761**
[13] A1
[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 4/02 (2006.01) H01M 4/36 (2006.01)**
[25] EN
[54] **POSITIVE ELECTRODE ACTIVE MATERIAL AND METHOD FOR MANUFACTURING SAME**
[54] **MATERIAU ACTIF D'ELECTRODE POSITIVE ET SON PROCEDE DE FABRICATION**
[72] JUNG, WON SIG, KR
[72] BAEK, HYEON HUI, KR
[72] JUNG, YONG JO, KR
[72] KIM, SANG JUN, KR
[72] KIM, JONG PIL, KR
[72] LEE, EUNG JU, KR
[71] LG CHEM, LTD., KR
[85] 2024-05-31
[86] 2023-05-22 (PCT/KR2023/006941)
[87] (WO2023/224445)
[30] KR (10-2022-0062287) 2022-05-20

[21] **3,239,762**
[13] A1
[51] **Int.Cl. A61K 31/353 (2006.01) A23L 33/10 (2016.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING BETA BLOCKER AND CHOLINESTERASE INHIBITOR FOR TREATMENT OF NEURODEGENERATIVE DISEASE**
[54] **COMPOSITION COMPRENANT UN BETA-BLOQUANT ET UN INHIBITEUR DE LA CHOLINESTERASE POUR LE TRAITEMENT D'UNE MALADIE NEURODEGENERATIVE**
[72] LEE, JI HYUN, KR
[72] KIM, EUN JUNG, KR
[71] DR.NOAH BIOTECH INC., KR
[85] 2024-05-31
[86] 2023-01-16 (PCT/KR2023/000760)
[87] (WO2023/149682)
[30] KR (10-2022-0014784) 2022-02-04

[21] **3,239,764**
[13] A1
[51] **Int.Cl. H01M 4/131 (2010.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01)**
[25] EN
[54] **POSITIVE ELECTRODE ACTIVE MATERIAL AND POSITIVE ELECTRODE INCLUDING SAME**
[54] **MATERIAU ACTIF D'ELECTRODE POSITIVE ET ELECTRODE POSITIVE LE COMPRENANT**
[72] JUNG, WON SIG, KR
[72] KIM, JONG PIL, KR
[72] LEE, EUNG JU, KR
[72] RHEE, TAE YOUNG, KR
[72] CHOI, HWAN YOUNG, KR
[71] LG CHEM, LTD., KR
[85] 2024-05-31
[86] 2023-05-22 (PCT/KR2023/006942)
[87] (WO2023/224446)
[30] KR (10-2022-0062288) 2022-05-20

[21] **3,239,765**
[13] A1
[51] **Int.Cl. G02F 1/295 (2006.01)**
[25] FR
[54] **OPTOELECTRONIC EMITTER HAVING A PHASE-CONTROLLED ANTENNA ARRAY COMPRISING OPTICAL ANTENNAS SUITABLE FOR EMITTING LIGHT RADIATION ACCORDING TO A PREDEFINED EMISSION PROFILE AND IN A PREDEFINED DIRECTION**
[54] **EMETTEUR OPTOELECTRONIQUE A ANTENNE RESEAU A COMMANDE DE PHASE COMPORTANT DES ANTENNES OPTIQUES ADAPTEES A EMETTRE UN RAYONNEMENT LUMINEUX SELON UN PROFIL D'EMISSION ET UNE DIRECTION PREDEFINIS**
[72] GUERBER, SYLVAIN, FR
[72] FOWLER, DAIVID, FR
[71] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[85] 2024-05-31
[86] 2022-11-29 (PCT/EP2022/083579)
[87] (WO2023/099434)
[30] FR (FR2112786) 2021-12-01

[21] **3,239,766**
[13] A1
[51] **Int.Cl. E21B 7/02 (2006.01) E02D 7/06 (2006.01) E02D 7/22 (2006.01) E02F 9/20 (2006.01)**
[25] EN
[54] **FOUNDATION MACHINE EQUIPPED WITH AN INTERCHANGEABLE ELECTRIC STORAGE SYSTEM AND A HANDLING EQUIPMENT FOR THE STORAGE SYSTEM**
[54] **ENGIN DE FONDATION EQUIPE D'UN SYSTEME DE STOCKAGE ELECTRIQUE INTERCHANGEABLE ET D'UN EQUIPEMENT DE MANIPULATION POUR LE SYSTEME DE STOCKAGE**
[72] DITILLO, ALESSANDRO, IT
[72] CURIC, JASMIN, IT
[71] SOILMEC S.P.A., IT
[85] 2024-05-31
[86] 2022-11-30 (PCT/IB2022/061572)
[87] (WO2023/100089)
[30] IT (102021000030644) 2021-12-03

[21] **3,239,768**
[13] A1
[51] **Int.Cl. G05B 13/02 (2006.01) G05B 23/02 (2006.01) H02J 3/38 (2006.01)**
[25] EN
[54] **CONDITION MONITORING OF ELECTRICAL DEVICES**
[54] **SURVEILLANCE D'ETAT DE DISPOSITIFS ELECTRIQUES**
[72] BAR-NESS, DANIEL, IL
[72] BARAK, ASSAF, IL
[72] YOSKOVITZ, SAAR, US
[72] KOBO, OREN, IL
[72] SHAUL, GAL, IL
[72] KOGAN, GIDEON, IL
[72] RINOTT, SHAHAR, IL
[71] AUGURY SYSTEMS LTD., IL
[85] 2024-05-31
[86] 2022-12-01 (PCT/IL2022/051282)
[87] (WO2023/100183)
[30] US (63/285,191) 2021-12-02

[21] **3,239,769**
[13] A1
[51] **Int.Cl. G06T 7/70 (2017.01) G06T 7/80 (2017.01)**
[25] EN
[54] **SYSTEM AND METHODS FOR VALIDATING IMAGERY PIPELINES**
[54] **SYSTEME ET PROCEDES DE VALIDATION DE PIPELINES D'IMAGERIE**
[72] MURALI, GIRIDHAR, US
[72] SHREE, ATULYA, US
[72] DZITSIUK, YEVHENIIA, US
[71] HOVER INC., US
[85] 2024-05-31
[86] 2022-12-02 (PCT/US2022/080861)
[87] (WO2023/102552)
[30] US (63/285,939) 2021-12-03

[21] **3,239,770**
[13] A1
[51] **Int.Cl. A44B 13/02 (2006.01)**
[25] EN
[54] **CLIP SYSTEM FOR WEARABLES**
[54] **SYSTEME D'ATTACHE POUR DISPOSITIFS PORTABLES**
[72] XIE, AIGUO, US
[71] WAYZAR CORPORATION, US
[85] 2024-05-31
[86] 2022-12-06 (PCT/US2022/052037)
[87] (WO2023/107506)
[30] US (63/286,158) 2021-12-06

[21] **3,239,771**
[13] A1
[51] **Int.Cl. C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 403/02 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **MODULATORS OF RHO-ASSOCIATED PROTEIN KINASE (ROCK)**
[54] **MODULATEURS DE LA PROTEINE KINASE ASSOCIEE A RHO (ROCK)**
[72] GUISOT, NICOLAS E.S., GB
[72] JONES, CLIFFORD D., GB
[71] REDX PHARMA LIMITED, GB
[85] 2024-05-31
[86] 2023-01-19 (PCT/GB2023/050109)
[87] (WO2023/139379)
[30] GB (2200735.5) 2022-01-20

[21] **3,239,773**
[13] A1
[51] **Int.Cl. E03F 1/00 (2006.01) E03F 5/02 (2006.01) E03F 5/04 (2006.01) E03F 5/10 (2006.01) E03F 5/14 (2006.01)**
[25] EN
[54] **STORM WATER FILTRATION SYSTEM**
[54] **SYSTEME DE FILTRATION D'EAUX PLUVIALES D'ORAGE**
[72] THEUNISSEN, JACK ELISABETH MARIE, DK
[72] SEVRIENS, DAVE M. J., DK
[71] ROCKWOOL A/S, DK
[85] 2024-05-31
[86] 2022-12-02 (PCT/EP2022/084290)
[87] (WO2023/099768)
[30] EP (21212346.7) 2021-12-03
[30] EP (21212348.3) 2021-12-03

[21] **3,239,774**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **COMPACT SPLICE ENCLOSURE WITH IMPROVED ACCESS TO ADAPTERS**
[54] **ENCEINTE D'EPISSURE COMPACTE A ACCES AMELIORE A DES ADAPTATEURS**
[72] DONCHEV, STEFAN, GB
[72] VA, AFZAL, US
[71] PPC BROADBAND, INC., US
[85] 2024-05-31
[86] 2022-12-02 (PCT/US2022/051633)
[87] (WO2023/102173)
[30] US (63/285,576) 2021-12-03

[21] **3,239,775**
[13] A1
[51] **Int.Cl. B01J 21/12 (2006.01) B01J 23/888 (2006.01) B01J 29/06 (2006.01) B01J 29/072 (2006.01) B01J 29/076 (2006.01) B01J 29/08 (2006.01) B01J 29/78 (2006.01)**
[25] FR
[54] **CATALYST COMPRISING A SUPPORT BASED ON SILICO-ALUMINIC MATRIX AND ON ZEOLITE, PREPARATION THEREOF AND PROCESS FOR HYDROCRACKING HYDROCARBON FEEDSTOCKS**
[54] **CATALYSEUR COMPRENANT UN SUPPORT A BASE DE MATRICE SILICO-ALUMINIQUE ET DE ZEOLITHE, SA PREPARATION ET PROCEDE D'HYDROCRAQUAGE DE CHARGES HYDROCARBONEES**
[72] DUBREUIL, ANNE-CLAIRE, FR
[72] LAMBERT, ARNOLD, FR
[72] RIVALLAN, MICKAEL, FR
[72] PIRNGRUBER, GERHARD, FR
[71] IFP ENERGIES NOUVELLES, FR
[85] 2024-05-31
[86] 2022-12-09 (PCT/EP2022/085090)
[87] (WO2023/117475)
[30] FR (FR2114114) 2021-12-21

[21] **3,239,776**
[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) C12N 15/113 (2010.01)**
[25] EN
[54] **5'-UTR WITH IMPROVED TRANSLATION EFFICIENCY, A SYNTHETIC NUCLEIC ACID MOLECULE INCLUDING THE SAME, AND A VACCINE OR THERAPEUTIC COMPOSITION INCLUDING THE SAME**
[54] **5'-UTR A EFFICACITE DE TRADUCTION AMELIOREE, UNE MOLECULE D'ACIDE NUCLEIQUE SYNTHETIQUE LA CONTENANT, ET UN VACCIN OU UNE COMPOSITION THERAPEUTIQUE LA CONTENANT**
[72] SHIN, MIN-KYUNG, KR
[72] HA, HONGSEOK, KR
[72] PARK, JOORI, KR
[72] LEE, SENA, KR
[72] KIM, YOON KI, KR
[72] JUNG, JAESUNG, KR
[72] LEE, YOON SUK, KR
[72] KWON, HYOKYOUNG, KR
[72] KIM, TAE-HEE, KR
[72] YUN, YEOMIN, KR
[71] MOGAM INSTITUTE FOR BIOMEDICAL RESEARCH, KR
[71] GREEN CROSS CORPORATION, KR
[85] 2024-05-31
[86] 2022-12-02 (PCT/KR2022/019491)
[87] (WO2023/101508)
[30] KR (10-2021-0172306) 2021-12-03

[21] **3,239,777**
[13] A1
[51] **Int.Cl. F16J 15/34 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR OPTIMIZING A FLUID ENVIRONMENT IN SPLIT MECHANICAL SEALS**
[54] **SYSTEME ET PROCEDE D'OPTIMISATION D'UN ENVIRONNEMENT FLUIDIQUE DANS DES JOINTS MECANIQUES FENDUS**
[72] POWERS, ROBERT JAMES, US
[72] AZIBERT, HENRI VINCENT, US
[71] A.W. CHESTERTON COMPANY, US
[85] 2024-05-31
[86] 2023-02-20 (PCT/US2023/013428)
[87] (WO2023/158857)
[30] US (63/311,724) 2022-02-18

[21] **3,239,778**
[13] A1
[51] **Int.Cl. C07K 14/005 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **ALPHARETROVIRUS-BASED PARTICLES FOR DELIVERY OF RNA INTO CELLS**
[54] **PARTICULES A BASE D'ALPHARETROVIRUS POUR L'ADMINISTRATION D'ARN DANS DES CELLULES**
[72] SCHAMBACH, AXEL, DE
[72] GALLA, MELANIE, DE
[72] BARON, YVONNE, DE
[71] MEDIZINISCHE HOCHSCHULE HANNOVER, DE
[85] 2024-05-31
[86] 2022-12-21 (PCT/EP2022/087224)
[87] (WO2023/118290)
[30] EP (21216354.7) 2021-12-21

[21] **3,239,779**
[13] A1
[51] **Int.Cl. C22C 1/04 (2023.01) B22F 3/24 (2006.01) C22C 21/02 (2006.01) C22C 21/08 (2006.01) C22C 21/14 (2006.01) C22C 21/16 (2006.01) C22C 32/00 (2006.01) C22F 1/00 (2006.01) C22F 1/05 (2006.01)**
[25] EN
[54] **PRECIPITATION HARDENING POWDER METAL COMPOSITION**
[54] **COMPOSITION DE METAL EN POUDRE A DURCISSEMENT PAR PRECIPITATION**
[72] BISHOP, DONALD PAUL, CA
[72] WILSON, MARGARET F., CA
[72] DONALDSON, IAN W., US
[72] HEXEMER, RICHARD L. JR., US
[71] GKN SINTER METALS, LLC, US
[85] 2024-05-31
[86] 2022-07-29 (PCT/US2022/038820)
[87] (WO2023/101727)
[30] US (63/285,804) 2021-12-03
[30] US (63/285,871) 2021-12-03

[21] **3,239,780**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01) B65H 75/44 (2006.01)**
[25] EN
[54] **FIBER REEL AND DEMARCATION BOX ASSEMBLY WITH REEL CONTROLLER AND/OR REVERSIBLE COVER**
[54] **BOBINE DE FIBRE ET ENSEMBLE BOITE DE DEMARCATION DOTE D'UN DISPOSITIF DE COMMANDE DE BOBINE ET/OU D'UN COUVERCLE REVERSIBLE**
[72] LEESON, KIM, GB
[72] TREZISE, SHAUN, GB
[71] PPC BROADBAND FIBER LTD., GB
[85] 2024-05-31
[86] 2022-12-02 (PCT/IB2022/061730)
[87] (WO2023/100155)
[30] US (63/285,589) 2021-12-03

[21] **3,239,781**
[13] A1
[51] **Int.Cl. G07F 13/06 (2006.01) G06Q 20/32 (2012.01) G07F 9/00 (2006.01) G07F 9/02 (2006.01)**
[25] EN
[54] **BEVERAGE MENU CREATION**
[54] **CREATION DE CARTE DE BOISSONS**
[72] BALAN, SAJAN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-31
[86] 2022-12-07 (PCT/EP2022/084689)
[87] (WO2023/104842)
[30] EP (21213097.5) 2021-12-08

[21] **3,239,782**
[13] A1
[51] **Int.Cl. H01M 10/42 (2006.01) G01R 31/364 (2019.01) G01R 31/385 (2019.01)**
[25] EN
[54] **JIG FOR EVALUATING SAFETY OF SECONDARY BATTERY**
[54] **GABARIT POUR EVALUER LA SECURITE D'UNE BATTERIE SECONDAIRE**
[72] PARK, SUNG KWAN, KR
[72] RYU, DUK HYUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-05-31
[86] 2022-12-02 (PCT/KR2022/019515)
[87] (WO2023/101515)
[30] KR (10-2021-0171664) 2021-12-03

[21] **3,239,783**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/444 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **SOLID STATE FORMS OF TAVAPADON AND PROCESSES FOR PREPARATION THEREOF**
[54] **FORMES A L'ETAT SOLIDE DE TAVAPADON ET LEURS PROCESSUS DE PREPARATION**
[72] PRZECZKOVA, ZUZANA, CZ
[72] BARTOVA, ADELA, CZ
[72] KOLESA, PAVEL, CZ
[72] JEGOROV, ALEXANDR, CZ
[72] ROMANOVA, JANA, CZ
[71] TEVA CZECH INDUSTRIES S.R.O, CZ
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/051470)
[87] (WO2023/102087)
[30] US (63/285,566) 2021-12-03
[30] US (63/309,726) 2022-02-14

[21] **3,239,784**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **CCR8 ANTIGEN BINDING UNIT AND USES THEREOF**
[54] **UNITE DE LIAISON A L'ANTIGENE CCR8 ET SES UTILISATIONS**
[72] KANG, LISHAN, CN
[72] LIU, HONGSHUI, CN
[72] WANG, LINA, CN
[72] YIN, SHANG, CN
[72] LI, SHOU, CN
[72] WAN, BING, CN
[72] SHI, WENHUA, CN
[72] CHEN, MIN, CN
[72] DAI, XINCHUAN, CN
[72] BELLOVIN, DAVID, US
[72] ZHANG, JING, US
[71] ZAI LAB (SHANGHAI) CO., LTD., CN
[71] ZAI LAB (US) LLC, US
[85] 2024-05-31
[86] 2022-12-02 (PCT/CN2022/136276)
[87] (WO2023/098888)
[30] CN (PCT/CN2021/134930) 2021-12-02

[21] **3,239,786**
[13] A1
[51] **Int.Cl. A23G 3/36 (2006.01) A23L 27/10 (2016.01) A23L 29/30 (2016.01) A23L 33/155 (2016.01) A23L 33/21 (2016.01) A23G 3/48 (2006.01) A61K 9/20 (2006.01) A61K 31/07 (2006.01)**
[25] EN
[54] **AN ORGANIC CHEWABLE COMPOSITION COMPRISING CERTIFIED ORGANIC INGREDIENTS, AND PROCESS FOR PREPARING THE SAME**
[54] **COMPOSITION BIOLOGIQUE A MACHER COMPRENANT DES INGREDIENTS BIOLOGIQUES CERTIFIES, ET SON PROCEDE DE PREPARATION**
[72] KARAN, KAPISH, US
[72] PARMAR, MAHIMNSINH, US
[72] PAUL, JUNIOR JEAN, US
[71] HERCULES LLC, US
[85] 2024-05-31
[86] 2022-11-29 (PCT/US2022/051228)
[87] (WO2023/101951)
[30] US (63/285,602) 2021-12-03

[21] **3,239,787**
[13] A1
[51] **Int.Cl. H02J 3/32 (2006.01)**
[25] EN
[54] **A METHOD OF CHARGING AN AUXILIARY BATTERY**
[54] **PROCEDE DE CHARGE D'UNE BATTERIE AUXILIAIRE**
[72] SZAMOCKI-HOFFMAN, NINA, GB
[71] MYENERGI LIMITED, GB
[85] 2024-05-31
[86] 2022-11-30 (PCT/EP2022/083920)
[87] (WO2023/099602)
[30] GB (2117346.3) 2021-12-01

[21] **3,239,788**
[13] A1
[51] **Int.Cl. A47J 31/22 (2006.01)**
[25] EN
[54] **BEVERAGE PREPARATION BY CENTRIFUGATION WITH RELIABLE CAPSULE TRANSFER**
[54] **PREPARATION DE BOISSON PAR CENTRIFUGATION AVEC TRANSFERT DE CAPSULE FIABLE**
[72] FANKHAUSER, MARCEL, CH
[72] GAVILLET, GILLES, CH
[72] SCHENK, RUDOLF, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-31
[86] 2022-12-21 (PCT/EP2022/087149)
[87] (WO2023/118248)
[30] EP (21216919.7) 2021-12-22

[21] **3,239,792**
[13] A1
[51] **Int.Cl. A61K 31/4184 (2006.01)**
[25] EN
[54] **SOLID STATE FORMS OF AN FGFR INHIBITOR**
[54] **FORMES A L'ETAT SOLIDE D'UN INHIBITEUR DE FGFR**
[72] KANOUNI, TOUFIKE, US
[72] PHIMISTER, ANDREW, US
[72] REDDY, JAYACHANDRA P., US
[72] TYHONAS, JOHN, US
[72] CHOPADE, SHUBHAM, US
[72] PANDEY, PREETANSHU, US
[72] COX, JASON M., US
[72] KANIA, ROBERT, US
[72] KALDOR, STEPHEN W. (DECEASED), XX
[71] KINNATE BIOPHARMA INC., US
[85] 2024-05-31
[86] 2022-12-07 (PCT/US2022/081060)
[87] (WO2023/107980)
[30] US (63/287,212) 2021-12-08

[21] **3,239,793**
[13] A1
[51] **Int.Cl. A47J 31/22 (2006.01)**
[25] EN
[54] **BEVERAGE PREPARATION WITH SIMPLE CAPSULE TRANSFER**
[54] **PREPARATION DE BOISSONS PAR SIMPLE TRANSFERT DE CAPSULES**
[72] FANKHAUSER, MARCEL, CH
[72] GAVILLET, GILLES, CH
[72] SCHENK, RUDOLF, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-31
[86] 2022-12-21 (PCT/EP2022/087148)
[87] (WO2023/118247)
[30] EP (21216930.4) 2021-12-22

[21] **3,239,794**
[13] A1
[51] **Int.Cl. A61K 35/742 (2015.01) A23K 10/16 (2016.01) A23L 33/135 (2016.01) A61P 1/14 (2006.01)**
[25] EN
[54] **COMPOSITION FOR PREVENTION OR TREATMENT OF COGNITIVE DYSFUNCTION AND INTESTINAL DYSFUNCTION, COMPRISING LACTOBACILLUS PARACASEI NK112, CUSCUTA AUSTRALIS EXTRACT, AND CUSCUTA JAPONICA EXTRACT**
[54] **COMPOSITION POUR LA PREVENTION OU LE TRAITEMENT D'UN DYSFONCTIONNEMENT COGNITIF ET D'UN DYSFONCTIONNEMENT INTESTINAL COMPRENANT UN EXTRAIT DE LACTOBACILLUS PARACASEI NK112, UN EXTRAIT DE CUSCUTA AUSTRALIS ET UN EXTRAIT DE CUSCUTA JAPONICA**
[72] SOHN, MI WON, KR
[72] CHOI, JIN GYU, KR
[72] KIM, SINYEON, KR
[72] PARK, SANG CHEOL, KR
[72] KIM, DONG HYUN, KR
[72] KIM, SUN YEOU, KR
[72] HONG, SUNG MIN, KR
[72] OH, MYUNG SOOK, KR
[72] JU, IN GYOUNG, KR
[72] LEE, CHOONG HWAN, KR
[71] MTHERA PHARMA CO., LTD., KR
[85] 2024-05-31
[86] 2021-12-08 (PCT/KR2021/018529)
[87] (WO2023/106444)
[30] KR (10-2021-0173108) 2021-12-06

[21] **3,239,795**
[13] A1
[51] **Int.Cl. A61F 2/00 (2006.01)**
[25] EN
[54] **CONTROLLED ABSORBABLE SLING SYSTEM**
[54] **SYSTEME D'ELINGUE A ABSORPTION CONTROLEE**
[72] STASKIN, DAVID, US
[72] NEALON, JOHN, US
[72] KOELLER, GREGORY, US
[72] ROOVERS, JAN PAUL, NL
[72] GULER, ZELIHA, TR
[71] STASKIN, DAVID, US
[71] NEALON, JOHN, US
[85] 2024-05-31
[86] 2022-12-05 (PCT/US2022/051868)
[87] (WO2023/102268)
[30] US (63/286,057) 2021-12-05

[21] **3,239,796**
[13] A1
[51] **Int.Cl. C22B 3/44 (2006.01) C22B 11/08 (2006.01)**
[25] EN
[54] **METHOD OF CONVERTING COPPER CYANIDE TO COPPER OXIDE AND SYSTEM THEREOF**
[54] **PROCEDE DE CONVERSION DE CYANURE DE CUIVRE EN OXYDE DE CUIVRE ET SYSTEME CORRESPONDANT**
[72] MOYO, PAMELA, US
[72] DIXON, STEVE, US
[72] NORCROSS, ROY, US
[71] CYANCO CORPORATION, US
[85] 2024-05-31
[86] 2022-12-05 (PCT/US2022/080947)
[87] (WO2023/102570)
[30] US (63/285,532) 2021-12-03

[21] **3,239,797**
[13] A1
[51] **Int.Cl. G02B 30/56 (2020.01)**
[25] EN
[54] **VIRTUAL SCREEN**
[54] **ECRAN VIRTUEL**
[72] GULDKULA, HAKAN, GB
[71] GULDKULA, HAKAN, GB
[85] 2024-05-31
[86] 2023-01-03 (PCT/EP2023/050077)
[87] (WO2023/131610)
[30] US (63/266,521) 2022-01-07
[30] SE (2250598-6) 2022-05-19

[21] **3,239,798**
[13] A1
[51] **Int.Cl. C08G 77/50 (2006.01) C01B 33/107 (2006.01) C07F 7/18 (2006.01) C08G 77/24 (2006.01) C09D 5/00 (2006.01) C09D 183/14 (2006.01) C23C 14/04 (2006.01) C23C 16/04 (2006.01) H01L 21/00 (2006.01)**
[25] EN
[54] **COMPOUNDS COMPRISING A PLURALITY OF SILSESQUIOXANE GROUPS FOR FORMING A PATTERNING COATING AND DEVICES INCORPORATING SAME**
[54] **COMPOSES COMPRENANT UNE PLURALITE DE GROUPES SILSESQUIOXANE POUR LA FORMATION D'UN REVETEMENT DE FORMATION DES MOTIFS, ET DISPOSITIFS LES INCORPORANT**
[72] HELANDER, MICHAEL, CA
[71] OTI LUMIONICS INC., CA
[85] 2024-05-31
[86] 2022-12-20 (PCT/IB2022/062560)
[87] (WO2023/119165)
[30] US (63/291,844) 2021-12-20

[21] **3,239,799**
[13] A1
[51] **Int.Cl. C22C 1/04 (2023.01) B22F 3/24 (2006.01) C22C 21/02 (2006.01) C22C 21/08 (2006.01) C22C 21/14 (2006.01) C22C 21/16 (2006.01) C22C 32/00 (2006.01) C22F 1/00 (2006.01) C22F 1/05 (2006.01)**
[25] EN
[54] **HOT DEFORMATION PROCESSING OF A PRECIPITATION HARDENING POWDER METAL ALLOY**
[54] **TRAITEMENT PAR DEFORMATION A CHAUD D'UN ALLIAGE DE METAL EN POUDRE A DURCISSEMENT PAR PRECIPITATION**
[72] BISHOP, DONALD PAUL, CA
[72] WILSON, MARGARET F., CA
[72] DONALDSON, IAN W., US
[72] HEXEMER, RICHARD L. JR., US
[71] GKN SINTER METALS, LLC, US
[85] 2024-05-31
[86] 2022-07-29 (PCT/US2022/038828)
[87] (WO2023/101728)
[30] US (63/285,871) 2021-12-03
[30] US (63/285,804) 2021-12-03

[21] **3,239,800**
[13] A1
[51] **Int.Cl. G06F 3/00 (2006.01) G07F 19/00 (2006.01)**
[25] FR
[54] **DATA INPUT DEVICE COMPRISING MEANS FOR DETECTING A SPY DEVICE, AND CORRESPONDING DETECTION METHOD AND COMPUTER PROGRAM**
[54] **DISPOSITIF DE SAISIE DE DONNEES COMPRENANT DES MOYENS DE DETECTION D'UN DISPOSITIF ESPION, PROCEDE DE DETECTION ET PRODUIT PROGRAMME D'ORDINATEUR CORRESPONDANTS**
[72] GOULON, MAXIME, FR
[72] MICHIEL, GREGORY, FR
[72] TESTU, DOMINIQUE, FR
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR
[85] 2024-05-31
[86] 2022-11-23 (PCT/EP2022/082936)
[87] (WO2023/104517)
[30] FR (FR2112984) 2021-12-06

[21] **3,239,801**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01) A61K 39/42 (2006.01) A61P 31/14 (2006.01) C12N 15/13 (2006.01) C12P 21/08 (2006.01)**
[25] EN
[54] **NEUTRALIZING ANTIBODIES AGAINST SARS-RELATED CORONAVIRUS**
[54] **ANTICORPS NEUTRALISANTS CONTRE LE CORONAVIRUS ASSOCIE AU SARS**
[72] KLEIN, FLORIAN, DE
[72] VANSHYLLA, KANIKA, DE
[72] GRUELL, HENNING, DE
[71] UNIVERSITAET ZU KOELN, DE
[85] 2024-05-31
[86] 2022-12-01 (PCT/EP2022/084119)
[87] (WO2023/099688)
[30] EP (21211717.0) 2021-12-01
[30] EP (21215292.0) 2021-12-16

[21] **3,239,802**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 9/02 (2006.01)**
[25] EN
[54] **ANTAGONIST ANTI-NPR1 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-NPR1 ANTAGONISTES ET LEURS PROCEDES D'UTILISATION**
[72] DUNN, MICHAEL, US
[72] MORTON, LORI, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-05-31
[86] 2022-12-06 (PCT/US2022/081031)
[87] (WO2023/107957)
[30] US (63/286,476) 2021-12-06
[30] US (63/310,078) 2022-02-14

[21] **3,239,804**
[13] A1
[51] **Int.Cl. F01N 3/20 (2006.01) F01N 3/28 (2006.01)**
[25] EN
[54] **EXHAUST GAS MIXER, SYSTEM, AND METHOD OF USING**
[54] **MELANGEUR DE GAZ D'ECHAPPEMENT, SYSTEME ET PROCEDE D'UTILISATION**
[72] MASOUDI, MANSOUR, US
[72] NOORFESHAN, SAHM, US
[72] POLIAKOV, NIKOLAI ALEX, US
[71] EMISSOL, LLC, US
[85] 2024-05-31
[86] 2022-12-09 (PCT/US2022/052442)
[87] (WO2023/107716)
[30] US (63/287,945) 2021-12-09

[21] **3,239,808**
[13] A1
[51] **Int.Cl. A47J 31/22 (2006.01)**
[25] EN
[54] **BEVERAGE PREPARATION WITH COMPACT CONDITIONING CHAMBER**
[54] **PREPARATION DE BOISSON A CHAMBRE DE CONDITIONNEMENT COMPACTE**
[72] FANKHAUSER, MARCEL, CH
[72] GAVILLET, GILLES, CH
[72] GORTCHACOW, MIGUEL, CH
[72] STALDER, STEFAN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-31
[86] 2022-12-21 (PCT/EP2022/087146)
[87] (WO2023/118245)
[30] EP (21216965.0) 2021-12-22

[21] **3,239,811**
[13] A1
[51] **Int.Cl. A47J 31/22 (2006.01)**
[25] EN
[54] **BEVERAGE PREPARATION WITH A STABLE OUTLET VALVE**
[54] **PREPARATION DE BOISSON AU MOYEN D'UNE SOUPAPE DE SORTIE STABLE**
[72] FANKHAUSER, MARCEL, CH
[72] GAVILLET, GILLES, CH
[72] GORTCHACOW, MIGUEL, CH
[72] STALDER, STEFAN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-31
[86] 2022-12-21 (PCT/EP2022/087145)
[87] (WO2023/118244)
[30] EP (21216970.0) 2021-12-22

[21] **3,239,813**
[13] A1
[51] **Int.Cl. C07D 405/14 (2006.01) A61K 31/4188 (2006.01) A61P 3/10 (2006.01) C07D 495/04 (2006.01)**
[25] EN
[54] **CRYSTAL FORMS OF THIENOIMIDAZOLE COMPOUND AND PREPARATION METHOD THEREOF**
[54] **FORMES CRISTALLINES DE COMPOSE THIENOIMIDAZOLE ET LEUR PROCEDE DE PREPARATION**
[72] GAN, LU, CN
[72] YU, TAO, CN
[72] WU, CHENGDE, CN
[72] YAO, TING, CN
[71] HANGZHOU SCIWIND BIOSCIENCES CO., LTD., CN
[85] 2024-05-31
[86] 2022-12-02 (PCT/CN2022/136097)
[87] (WO2023/098852)
[30] CN (202111474324.5) 2021-12-03

[21] **3,239,814**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) C12N 5/071 (2010.01) C12N 5/0783 (2010.01)**
[25] EN
[54] **A NOVEL METHOD OF TREATING TARGETED ABNORMAL CELLS, AND CYTOTOXIC CELL USED THEREIN**
[54] **NOUVEAU PROCEDE DE TRAITEMENT DE CELLULES ANORMALES CIBLEES ET CELLULE CYTOTOXIQUE UTILISEE DANS CE PROCEDE**
[72] HSIAO, CHING-WEN, US
[72] CHENG, ZIH-FEI, TW
[72] WU, TAI-SHENG, TW
[72] LIN, YAN-LIANG, TW
[72] LI, HAO-KANG, TW
[72] TANG, SAI-WEN, US
[72] YANG, HSIU-PING, TW
[72] HSIAO, SHIH-CHIA, TW
[71] ACEPODIA BIOTECHNOLOGIES LTD., TW
[85] 2024-05-31
[86] 2022-12-12 (PCT/US2022/081368)
[87] (WO2023/114719)
[30] US (63/288,728) 2021-12-13

[21] **3,239,816**
[13] A1
[51] **Int.Cl. A47J 31/22 (2006.01)**
[25] EN
[54] **BEVERAGE PREPARATION WITH A FLEXIBLE OUTLET VALVE**
[54] **PREPARATION DE BOISSON A SOUPAPE DE SORTIE FLEXIBLE**
[72] FANKHAUSER, MARCEL, CH
[72] GAVILLET, GILLES, CH
[72] GORTCHACOW, MIGUEL, CH
[72] STALDER, STEFAN, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-05-31
[86] 2022-12-21 (PCT/EP2022/087147)
[87] (WO2023/118246)
[30] EP (21216976.7) 2021-12-22

[21] **3,239,817**
[13] A1
[51] **Int.Cl. G01N 21/64 (2006.01) E21B 12/02 (2006.01) E21B 47/01 (2012.01) E21B 49/08 (2006.01) G01N 21/01 (2006.01) G01N 21/17 (2006.01) G01N 21/85 (2006.01) G01N 21/88 (2006.01)**
[25] EN
[54] **SENSOR ASSEMBLY**
[54] **ENSEMBLE CAPTEUR**
[72] BAHEMIA, DAVID ADAM, AU
[72] BERTI, DANIEL, AU
[72] LEECH, AARON, AU
[72] SUE, AYRTON, AU
[71] WEAR DETECTION TECHNOLOGIES PTY LTD, AU
[85] 2024-05-31
[86] 2022-12-06 (PCT/AU2022/051460)
[87] (WO2023/102602)
[30] AU (2021903977) 2021-12-08

[21] **3,239,818**
[13] A1
[51] **Int.Cl. B65B 5/02 (2006.01) B29C 64/147 (2017.01) B65B 43/08 (2006.01) B65B 57/12 (2006.01) B65B 59/02 (2006.01) B65B 61/16 (2006.01) B65D 5/32 (2006.01)**
[25] FR
[54] **METHOD FOR DIGITALLY DESIGNING AND DIGITALLY MANUFACTURING MADE-TO-MEASURE PACKAGING FOR AN OBJECT, MEANS FOR IMPLEMENTING SAID METHOD AND PACKAGING OBTAINED THEREBY**
[54] **PROCEDE DE CONCEPTION NUMERIQUE ET DE FABRICATION NUMERIQUE D'UN EMBALLAGE SUR-MESURE D'UN OBJET, LES MOYENS PERMETTANT SA MISE EN ?UVRE, AINSI QUE L'EMBALLAGE OBTENU**
[72] CUNIN, DENIS, FR
[72] DELEBECQUE, BENOIT, FR
[72] BARLIER, CLAUDE, FR
[71] CIRTES SRC, FR
[71] BARLIER, CLAUDE, FR
[85] 2024-05-31
[86] 2022-12-20 (PCT/EP2022/087103)
[87] (WO2023/126258)
[30] FR (FR2114580) 2021-12-28

[21] **3,239,821**
[13] A1
[25] EN
[54] **INTEGRATED SYSTEMS EMPLOYING CARBON OXIDE ELECTROLYSIS IN STEEL PRODUCTION**
[54] **SYSTEMES INTEGRES UTILISANT L'ELECTROLYSE D'OXYDE DE CARBONE DANS LA PRODUCTION D'ACIER**
[72] CINTRON, ENRIQUE, US
[72] FLANDERS, NICHOLAS H., US
[72] DICOSOLA, GREGORY, US
[71] TWELVE BENEFIT CORPORATION, US
[85] 2024-05-31
[86] 2022-12-06 (PCT/US2022/081034)
[87] (WO2023/107960)
[30] US (63/265,090) 2021-12-07

[21] **3,239,822**
[13] A1
[51] **Int.Cl. A47K 11/02 (2006.01)**
[25] EN
[54] **INCINERATION TOILET WITH SAFETY SYSTEM**
[54] **TOILETTE A INCINERATION DOTEE DE SYSTEME DE SECURITE**
[72] HANSEN, FRODE, NO
[72] ASLAKSEN, ODD ARNE, NO
[72] MOEN, FREDDY ROGER, NO
[71] CINDERELLA TECHNOLOGY AS, NO
[85] 2024-05-31
[86] 2023-01-19 (PCT/EP2023/051299)
[87] (WO2023/139184)
[30] NO (20220109) 2022-01-21

[21] **3,239,826**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/715 (2006.01)**
[25] EN
[54] **CANINIZED ANTIBODIES TO CANINE INTERLEUKIN-31 RECEPTOR ALPHA II**
[54] **ANTICORPS CANINISES CONTRE LE RECEPTEUR ALPHA II DE L'INTERLEUKINE-31 CANINE**
[72] MORSEY, MOHAMAD, US
[72] ZHANG, YUANZHENG, US
[71] INTERVET INTERNATIONAL B.V., NL
[85] 2024-05-31
[86] 2022-12-15 (PCT/EP2022/086040)
[87] (WO2023/111128)
[30] US (63/290,256) 2021-12-16
[30] US (63/290,259) 2021-12-16
[30] US (63/341,443) 2022-05-13

[21] **3,239,827**
[13] A1
[51] **Int.Cl. G01N 33/543 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TESTING BIOLOGICAL SAMPLES**
[54] **SYSTEME ET PROCEDE DE TEST D'ECHANTILLONS BIOLOGIQUES**
[72] RUBY, TOM, US
[72] PIZZO, STEPHEN, US
[72] BULLOCH, KYLE, US
[72] NAWANA, NAMAL, US
[71] GRAPHENE-DX, INC., US
[85] 2024-05-31
[86] 2022-11-30 (PCT/US2022/051411)
[87] (WO2023/102053)
[30] US (63/285,032) 2021-12-01
[30] US (18/072,106) 2022-11-30

[21] **3,239,828**
[13] A1
[51] **Int.Cl. C07C 5/48 (2006.01) C07C 7/04 (2006.01) C07C 7/167 (2006.01) C07C 9/06 (2006.01) C07C 11/04 (2006.01) C07C 51/25 (2006.01) C07C 53/08 (2006.01) C10G 9/36 (2006.01) C10G 51/06 (2006.01) C10G 70/02 (2006.01) C10G 70/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING ONE OR MORE HYDROCARBONS**
[54] **PROCEDE ET INSTALLATION DESTINES A LA FABRICATION D'UN OU DE PLUSIEURS HYDROCARBURES**
[72] KRACKER, GUNTHER, DE
[72] ZELLHUBER, MATHIEU, DE
[72] MCCRACKEN, SEAN, DE
[72] MEISWINKEL, ANDREAS, DE
[72] SCHUBERT, MARTIN, DE
[72] TOTA, DESISLAVA, DE
[71] LINDE GMBH, DE
[85] 2024-05-31
[86] 2022-12-08 (PCT/EP2022/084975)
[87] (WO2023/104962)
[30] EP (21020622.3) 2021-12-08

[21] **3,239,829**
[13] A1
[51] **Int.Cl. A01G 22/15 (2018.01) A01G 22/25 (2018.01) C05D 9/02 (2006.01)**
[25] EN
[54] **METHOD FOR GROWING LEAF VEGETABLES AND/OR HERBS AND/OR POTATO PLANTS AND DEVICE THERE FOR**
[54] **PROCEDE DE CULTURE DE LEGUMES A FEUILLES ET/OU D'HERBES ET/OU DE PLANTS DE POMMES DE TERRE ET DISPOSITIF ASSOCIE**
[72] SAMIMI-SEDEH, SINA, NL
[72] TISSINGH, ROBERT LUC, NL
[72] BRUINS, HENDRICUS JOHANNES RICHARD, NL
[72] PETERS, RONALDUS CORNELIS MARIA, NL
[72] PETERS, THEUN, NL
[72] PETERS, THOMAS, NL
[71] FERR TECH B.V., NL
[71] PETERS, RONALDUS CORNELIS MARIA, NL
[85] 2024-05-31
[86] 2022-09-23 (PCT/NL2022/050536)
[87] (WO2023/048570)
[30] NL (2029252) 2021-09-24
[30] NL (2030699) 2022-01-25

[21] **3,239,830**
[13] A1
[51] **Int.Cl. A61K 36/8966 (2006.01) A61K 35/32 (2015.01) A61K 35/413 (2015.01) A61P 11/14 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **A TRADITIONAL CHINESE MEDICINE COMPOSITION AND USE THEREOF**
[54] **COMPOSITION DE MEDECINE TRADITIONNELLE CHINOISE ET SON UTILISATION**
[72] XIAO, WEI, CN
[72] LI, HAIBO, CN
[72] LI, GUIPING, CN
[72] WANG, TUANJIE, CN
[72] GU, SHASHA, CN
[72] LI, XU, CN
[72] ZHANG, QUANCHANG, CN
[72] CAO, LIANG, CN
[72] LIU, WENJUN, CN
[72] ZHANG, CHENGFENG, CN
[72] WANG, ZHENZHONG, CN
[71] JIANGSU KANION PHARMACEUTICAL CO., LTD., CN
[85] 2024-05-31
[86] 2022-09-13 (PCT/CN2022/118405)
[87] (WO2023/098224)
[30] CN (202111467244.7) 2021-12-02

[21] **3,239,831**
[13] A1
[51] **Int.Cl. A47C 1/14 (2006.01) A47C 1/16 (2006.01) A47C 3/16 (2006.01) A47C 4/28 (2006.01)**
[25] EN
[54] **SURFACE CHAIR**
[54] **CHAISE SANS PIEDS**
[72] MALEY, IAN, AU
[71] IAN MALEY & ASSOCIATES PTY LTD, AU
[85] 2024-05-31
[86] 2022-12-01 (PCT/AU2022/051438)
[87] (WO2023/097371)
[30] AU (2021903897) 2021-12-01

[21] **3,239,832**
[13] A1
[51] **Int.Cl. C07C 5/48 (2006.01) C07C 7/04 (2006.01) C07C 9/06 (2006.01) C07C 11/04 (2006.01) C07C 51/25 (2006.01) C07C 53/08 (2006.01) C10G 9/36 (2006.01) C10G 51/06 (2006.01) C10G 70/02 (2006.01) C10G 70/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR PRODUCING ONE OR MORE HYDROCARBONS**
[54] **PROCEDE ET INSTALLATION POUR PRODUIRE UN OU PLUSIEURS HYDROCARBURES**
[72] KRACKER, GUNTHER, DE
[72] ZELLHUBER, MATHIEU, DE
[72] MCCRACKEN, SEAN, DE
[72] MEISWINKEL, ANDREAS, DE
[72] SCHUBERT, MARTIN, DE
[72] TOTA, DESISLAVA, DE
[71] LINDE GMBH, DE
[85] 2024-05-31
[86] 2022-12-08 (PCT/EP2022/084977)
[87] (WO2023/104963)
[30] EP (21020623.1) 2021-12-08

[21] **3,239,833**
[13] A1
[51] **Int.Cl. H04M 3/51 (2006.01) H04M 3/523 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR OPTIMIZING ASSISTANCE CHANNEL ROUTING**
[54] **TECHNIQUES D'OPTIMISATION DE ROUTAGE DE CANAL D'ASSISTANCE**
[72] GARCIA-LOPEZ, JULIAN LOPEZ-PORTILLO, BM
[72] O'BRIEN, CAROLINE CECILIA, BM
[72] SINHA, ALEKSHANDRA ARJUN, BM
[72] DUJOL, FELIX XAVIER SOLIMAN MARIE, GB
[71] AFINITI, LTD., BM
[71] AFINITI, INC., US
[85] 2024-05-31
[86] 2022-12-22 (PCT/US2022/053782)
[87] (WO2023/122256)
[30] US (63/292,684) 2021-12-22

[21] **3,239,834**
[13] A1
[51] **Int.Cl. A61K 45/00 (2006.01) A23L 33/135 (2016.01) A61K 35/74 (2015.01) A61P 1/00 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **IMMUNOSTIMULATORY COMPOSITION**
[54] **COMPOSITION IMMUNOSTIMULATRICE**
[72] GAO, PENG, JP
[72] SHINKURA, REIKO, JP
[71] SHINKURA, REIKO, JP
[85] 2024-05-31
[86] 2022-11-24 (PCT/JP2022/043424)
[87] (WO2023/100745)
[30] JP (2021-196561) 2021-12-02

[21] **3,239,837**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **TREATMENT**
[54] **TRAITEMENT**
[72] DAR, MOHAMMED, GB
[72] MARSHALL, SHANNON, GB
[72] ABDULLAH, SHAAD, GB
[71] IMMUNOCORE LIMITED, GB
[85] 2024-05-31
[86] 2022-11-30 (PCT/EP2022/083952)
[87] (WO2023/099622)
[30] US (63/285,044) 2021-12-01

[21] **3,239,838**
[13] A1
[51] **Int.Cl. G16H 20/13 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **OPTIMIZING EMBEDDED FORMULATIONS FOR DRUG DELIVERY**
[54] **OPTIMISATION DE FORMULATIONS INCORPOREES POUR L'ADMINISTRATION DE MEDICAMENTS**
[72] LEE, JOON BOK, US
[72] ZHENG, YIBIN, US
[72] O'CONNOR, JASON, US
[72] ZADE, ASHUTOSH, US
[71] INSULET CORPORATION, US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/051534)
[87] (WO2023/102114)
[30] US (17/539,270) 2021-12-01
[30] US (17/752,236) 2022-05-24

[21] **3,239,839**
[13] A1
[51] **Int.Cl. B61D 17/00 (2006.01) B61D 17/04 (2006.01) B62D 29/00 (2006.01) B62D 31/02 (2006.01)**
[25] EN
[54] **CARRIAGE BODY FOR A PASSENGER TRANSPORT VEHICLE**
[54] **CORPS DE CARROSSERIE POUR UN VEHICULE DE TRANSPORT DE PASSAGERS**
[72] LANGERT, WOLFGANG, DE
[72] SCHELLHAUS, STEFAN, DE
[72] WILHELM, MARKUS, DE
[71] SIEMENS MOBILITY GMBH, DE
[85] 2024-05-31
[86] 2022-11-21 (PCT/EP2022/082622)
[87] (WO2023/117244)
[30] DE (10 2021 214 650.3) 2021-12-20

[21] **3,239,840**
[13] A1
[51] **Int.Cl. A61K 35/742 (2015.01) A23L 33/135 (2016.01)**
[25] EN
[54] **BACILLUS CLAUSII STRAIN, COMPOSITIONS THEREOF, AND METHODS OF USE**
[54] **SOUCHE DE BACILLUS CLAUSII, COMPOSITIONS DE CELLE-CI ET PROCEDES D'UTILISATION**
[72] DEATON, JOHN, US
[71] DEERLAND PROBIOTICS & ENZYMES, INC., US
[85] 2024-05-31
[86] 2022-12-08 (PCT/US2022/081161)
[87] (WO2023/108055)
[30] IE (2021/0209) 2021-12-08

[21] **3,239,841**
[13] A1
[51] **Int.Cl. B01D 35/143 (2006.01)**
[25] EN
[54] **FLUID HANDLING SYSTEM, CARTRIDGE THEREFOR AND METHOD OF MANUFACTURING A RANGE OF THE CARTRIDGES**
[54] **SYSTEME DE MANIPULATION DE FLUIDE, CARTOUCHE ASSOCIEE ET PROCEDE DE FABRICATION D'UNE GAMME DE CARTOUCHES**
[72] WEIDNER, PETER, DE
[72] CONRADT, BERTHOLD, DE
[72] SCHONECK, JORIS, DE
[72] BUT, ALEXEJ, DE
[72] RAZIN, DENIS, DE
[72] HEEP, MARIO, DE
[72] HORNING, THOMAS, DE
[72] BUBINGER, MICHAEL, DE
[71] BRITA SE, DE
[85] 2024-05-31
[86] 2022-12-02 (PCT/EP2022/084271)
[87] (WO2023/110464)
[30] EP (21215089.0) 2021-12-16

[21] **3,239,842**
[13] A1
[51] **Int.Cl. A61K 35/742 (2015.01) A23L 33/135 (2016.01)**
[25] EN
[54] **BACILLUS COAGULANS STRAIN, COMPOSITIONS THEREOF, AND METHODS OF USE**
[54] **SOUCHE DE BACILLUS COAGULANS, COMPOSITIONS DE CELLE-CI ET PROCEDES D'UTILISATION**
[72] DEATON, JOHN, US
[71] DEERLAND PROBIOTICS & ENZYMES, INC., US
[85] 2024-05-31
[86] 2022-12-08 (PCT/US2022/081195)
[87] (WO2023/108080)
[30] IE (2021/0210) 2021-12-08

[21] **3,239,843**
[13] A1
[51] **Int.Cl. B29B 17/02 (2006.01) B29B 17/04 (2006.01) C10B 47/12 (2006.01) C10B 53/07 (2006.01) C10K 1/04 (2006.01)**
[25] EN
[54] **GLASS FIBER RECLAMATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE RECUPERATION DE FIBRE DE VERRE**
[72] GALLO, PASCAL, CH
[72] ANDERSON, MITCHELL, CH
[72] PERBEN, GUILLAUME, CH
[71] COMPOSITE RECYCLING SA, CH
[85] 2024-05-31
[86] 2022-12-06 (PCT/EP2022/084673)
[87] (WO2023/104837)
[30] US (63/286,263) 2021-12-06

[21] **3,239,844**
[13] A1
[51] **Int.Cl. A61K 35/742 (2015.01) A23L 33/135 (2016.01)**
[25] EN
[54] **BACILLUS MEGATERIUM STRAIN, COMPOSITIONS THEREOF, AND METHODS OF USE**
[54] **SOUCHE DE BACILLUS MEGATERIUM, COMPOSITIONS DE CELLE-CI ET PROCEDES D'UTILISATION**
[72] DEATON, JOHN, US
[71] DEERLAND PROBIOTICS & ENZYMES, INC., US
[85] 2024-05-31
[86] 2022-12-08 (PCT/US2022/081191)
[87] (WO2023/108077)
[30] IE (2021/0211) 2021-12-08

[21] **3,239,845**
[13] A1
[51] **Int.Cl. B01D 25/127 (2006.01) B01D 25/28 (2006.01) B01D 33/46 (2006.01)**
[25] EN
[54] **FILTER APPARATUS AND FILTERING METHOD**
[54] **APPAREIL DE FILTRATION ET PROCEDE DE FILTRATION**
[72] BENESI, STEVE C., US
[71] BENESI, STEVE C., US
[85] 2024-05-31
[86] 2022-11-22 (PCT/US2022/050663)
[87] (WO2023/101860)
[30] US (63/285,272) 2021-12-02

[21] **3,239,846**
[13] A1
[51] **Int.Cl. A61K 35/74 (2015.01) C12Q 1/6869 (2018.01)**
[25] EN
[54] **MICROBIAL CONSORTIA**
[54] **CONSORTIA MICROBIENS**
[72] SWEM, LEE ROBERT, US
[72] KUMAR, PAWAN, US
[72] TRIPATHI, SHITAL A., US
[72] BHALLA, ADITYA, US
[72] PARMAR, ANUPREET, US
[72] HAMILTON, JOSHUA J., US
[72] BRUMBAUGH, ARIEL R., US
[72] RICCI, DANTE P., US
[72] LAYMAN, HANS RICHARD WILLIAM, US
[72] CIGLAR, ARIANA M., US
[72] BERLEMAN, JAMES, US
[72] WALTERS, ZACHARY, US
[72] JACOBY, KYLE, US
[72] YOUNGBLUT, NICHOLAS D., US
[72] GRAUER, ANDREAS, US
[72] CONLEY, EMILY DRABANT, US
[72] ROMASKO, HEATHER, US
[71] KANVAS BIOSCIENCES, INC, US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/051477)
[87] (WO2023/102091)
[30] US (63/285,010) 2021-12-01
[30] US (63/305,476) 2022-02-01

[21] **3,239,847**
[13] A1
[51] **Int.Cl. B25B 15/00 (2006.01) F16B 23/00 (2006.01)**
[25] EN
[54] **SCREW, TOOL AND ARRANGEMENT WITH A SCREW AND A TOOL**
[54] **VIS, OUTIL ET AGENCEMENT COMPRENANT UNE VIS ET UN OUTIL**
[72] LEB, GERHARD, AT
[72] KUBINGER, PHILIP, AT
[71] SCHMID SCHRAUBEN HAINFELD GMBH, AT
[85] 2024-05-31
[86] 2022-11-28 (PCT/EP2022/083482)
[87] (WO2023/099404)
[30] DE (10 2021 213 643.5) 2021-12-01

[21] **3,239,848**
[13] A1
[51] **Int.Cl. A01N 25/04 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **BIOCIDE COMPOSITIONS**
[54] **COMPOSITIONS BIOCIDES**
[72] KLIMA, RODNEY F., US
[72] OESTER, DEAN A., US
[71] BASF SE, DE
[85] 2024-05-31
[86] 2022-11-28 (PCT/EP2022/083386)
[87] (WO2023/099366)
[30] US (63/284,745) 2021-12-01
[30] EP (22151072.0) 2022-01-12

[21] **3,239,849**
[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01)**
[25] EN
[54] **IL10 VARIANTS AND USES THEREOF**
[54] **VARIANTS D'IL10 ET LEURS UTILISATIONS**
[72] WONG, MICHAEL, US
[72] MCCAULEY, SCOTT, US
[72] MORIN, ANDREW, US
[71] SYNTHEKINE, INC., US
[85] 2024-05-31
[86] 2022-12-01 (PCT/US2022/080769)
[87] (WO2023/102493)
[30] US (63/285,019) 2021-12-01

[21] **3,239,850**
[13] A1
[51] **Int.Cl. A24F 40/90 (2020.01) H02J 50/20 (2016.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE COMPRISING A RADIO FREQUENCY RECEIVER FOR POWER HARVESTING**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL COMPRENANT UN RECEPTEUR RADIOFREQUENCE DE COLLECTE D'ENERGIE**
[72] AL-AMIN, MOHAMMED, GB
[72] BRUTON, CONNOR, GB
[72] MUSGRAVE, DAMYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-05-31
[86] 2022-12-08 (PCT/GB2022/053139)
[87] (WO2023/105236)
[30] GB (2117822.3) 2021-12-09

[21] **3,239,851**
[13] A1
[51] **Int.Cl. C07C 227/18 (2006.01) A61K 31/198 (2006.01) A61K 31/616 (2006.01) A61P 31/12 (2006.01) C07C 69/157 (2006.01) C07C 227/42 (2006.01) C07C 229/26 (2006.01)**
[25] EN
[54] **IMPROVED SYNTHESIS OF LYSINE ACETYLSALICYLATE · GLYCINE PARTICLES**
[54] **SYNTHESE AMELIOREE DE PARTICULES D'ACETYLSALICYLATE DE LYSINE · GLYCINE**
[72] NOCKER, KARLHEINZ, DE
[72] VON SCHRADER, THOMAS, DE
[72] ZUHSE, RALF, DE
[72] BRAUNE, CHRISTIAN, DE
[71] ASPIAIR GMBH, DE
[85] 2024-05-31
[86] 2023-01-05 (PCT/EP2023/050175)
[87] (WO2023/131645)
[30] EP (22150312.1) 2022-01-05

[21] **3,239,852**
[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/90 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE COMPRISING TWO CHARGING MODULES**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL COMPRENANT DEUX MODULES DE CHARGE**
[72] AL-AMIN, MOHAMMED, GB
[72] MUSGRAVE, DAMYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-05-31
[86] 2022-12-08 (PCT/GB2022/053140)
[87] (WO2023/105237)
[30] GB (2117825.6) 2021-12-09

[21] **3,239,853**
[13] A1
[51] **Int.Cl. F17C 3/02 (2006.01) F17C 3/08 (2006.01)**
[25] EN
[54] **VACUUM INSULATED CRYOGENIC STORAGE VESSEL**
[54] **RECIPIENT DE STOCKAGE CRYOGENIQUE ISOLE SOUS VIDE**
[72] COOPERMAN, ALEXANDER, US
[72] EBERLY, RANDY LEE, US
[72] JACOBSON, JOHN ANDREW, US
[72] CIHLAR, STEVEN MATTHEW, US
[72] CREECH, DAVID, US
[71] CB&I STS DELAWARE LLC, US
[85] 2024-05-31
[86] 2022-12-02 (PCT/US2022/080833)
[87] (WO2023/102536)
[30] US (63/285,898) 2021-12-03

[21] **3,239,854**
[13] A1
[51] **Int.Cl. H01L 21/02 (2006.01) G01Q 60/10 (2010.01) B82Y 10/00 (2011.01) B82Y 40/00 (2011.01) G06N 10/40 (2022.01) B28B 3/00 (2006.01) C30B 23/02 (2006.01) C30B 25/18 (2006.01) C30B 29/04 (2006.01)**
[25] EN
[54] **ATOMIC SCALE FABRICATION OF DIAMOND QUANTUM COMPUTERS**
[54] **FABRICATION A L'ECHELLE ATOMIQUE D'ORDINATEURS QUANTIQUES EN DIAMANT**
[72] DOHERTY, MARCUS, AU
[72] OBERG, LACHLAN, AU
[72] WEBER, CEDRIC, AU
[72] SERGEIEVA, TETIANA, AU
[72] PAKES, CHRIS, AU
[72] SCHENK, ALEX, AU
[72] STACEY, ALASTAIR, AU
[71] QUANTUM BRILLIANCE PTY LTD, AU
[71] THE AUSTRALIAN NATIONAL UNIVERSITY, AU
[85] 2024-05-31
[86] 2022-11-29 (PCT/AU2022/051425)
[87] (WO2023/097361)
[30] AU (2021903915) 2021-12-03
[30] AU (2022902826) 2022-09-29

[21] **3,239,855**
[13] A1
[51] **Int.Cl. B04B 1/20 (2006.01)**
[25] EN
[54] **SOLID BOWL CENTRIFUGE AND METHOD FOR CONTROLLING THE SEPARATION PROCESS OF THE SOLID BOWL CENTRIFUGE**
[54] **CENTRIFUGEUSE A BOL PLEIN ET PROCEDE DE COMMANDE DU PROCESSUS DE SEPARATION DE LA CENTRIFUGEUSE A BOL PLEIN**
[72] OVERBERG, MARTIN, DE
[71] GEA WESTFALIA SEPARATOR GROUP GMBH, DE
[85] 2024-05-31
[86] 2023-01-05 (PCT/EP2023/050173)
[87] (WO2023/135051)
[30] DE (10 2022 100 511.9) 2022-01-11

[21] **3,239,856**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01) C07K 16/30 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **CEA ASSAY FOR PATIENT SELECTION IN CANCER THERAPY**
[54] **DOSAGE DU CEA POUR LA SELECTION D'UN PATIENT DANS UNE THERAPIE ANTICANCEREUSE**
[72] CHADJAA, MUSTAPHA, FR
[72] BAUCHET, ANNE-LAURE, FR
[72] COMBEAU, CELINE, FR
[72] HENRY, CHRISTOPHE, FR
[72] DEMERS, BRIGITTE, FR
[72] BENSFIA, SAMIRA, US
[71] SANOFI, FR
[85] 2024-05-31
[86] 2022-12-01 (PCT/EP2022/084107)
[87] (WO2023/099683)
[30] EP (21306692.1) 2021-12-02
[30] US (63/385,375) 2022-11-29

[21] **3,239,857**
[13] A1
[51] **Int.Cl. C07D 471/10 (2006.01) A61P 35/02 (2006.01) C07D 487/10 (2006.01)**
[25] EN
[54] **CARBONYL SUBSTITUTED DIAZASPIRO COMPOUNDS AND ITS USE**
[54] **COMPOSES DIAZASPIRO CARBONYLE SUBSTITUE ET LEUR UTILISATION**
[72] HU, TAISHAN, CN
[72] HUANG, BRYAN, CN
[72] SHEN, QUANRONG, CN
[72] LI, HONGHAI, CN
[72] MA, XIAOCHU, CN
[71] BIONOVA PHARMACEUTICALS (SHANGHAI) LIMITED, CN
[85] 2024-05-31
[86] 2022-12-02 (PCT/CN2022/136203)
[87] (WO2023/098876)
[30] CN (PCT/CN2021/135427) 2021-12-03
[30] CN (PCT/CN2022/115162) 2022-08-26

[21] **3,239,872**
[13] A1
[51] **Int.Cl. A63B 21/16 (2006.01) G16H 20/30 (2018.01) A63B 24/00 (2006.01) A63B 21/04 (2006.01)**
[25] EN
[54] **PERSONAL REHABILITATION DEVICE AND METHOD FOR THE ELDERLY**
[54] **DISPOSITIF ET PROCEDE DE REEDUCATION PERSONNELLE POUR LES PERSONNES AGEES**
[72] SHYR, SONG-TSE, US
[71] SHYR, SONG-TSE, US
[85] 2024-06-03
[86] 2022-05-31 (PCT/US2022/031557)
[87] (WO2023/140881)
[30] US (63/300,267) 2022-01-18

[21] **3,239,875**
[13] A1
[51] **Int.Cl. A23L 33/115 (2016.01) A61K 31/202 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS RELATING TO TREATMENT AND PREVENTION OF FATTY ACID DEFICIENCIES**
[54] **METHODES ET COMPOSITIONS SE RAPPORTANT AU TRAITEMENT ET A LA PREVENTION DE DEFICIENCES EN ACIDES GRAS**
[72] PUDER, MARK, US
[72] FLIGOR, SCOTT, US
[72] GURA, KATHLEEN, US
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2024-06-03
[86] 2022-12-07 (PCT/US2022/052076)
[87] (WO2023/107527)
[30] US (63/287,564) 2021-12-09

[21] **3,239,877**
[13] A1
[51] **Int.Cl. C21C 5/52 (2006.01) F27D 99/00 (2010.01) F27B 3/08 (2006.01) F27B 3/18 (2006.01)**
[25] EN
[54] **ELECTRIC ARC FURNACE FOR MELTING METAL MATERIAL AND STEEL PLANT COMPRISING SAID ELECTRIC ARC FURNACE**
[54] **FOUR ELECTRIQUE A ARC PERMETTANT LA FUSION D'UN MATERIAU METALLIQUE ET ACIERIE COMPRENANT LEDIT FOUR ELECTRIQUE A ARC**
[72] ANSOLDI, MARCO, IT
[72] PATRIZIO, DAMIANO, IT
[72] TERLICHER, STEFANO, IT
[72] MARCONI, GIANFRANCO, IT
[71] DANIELI & C. OFFICINE MECCANICHE S.P.A., IT
[85] 2024-06-03
[86] 2022-12-06 (PCT/IT2022/050315)
[87] (WO2023/105541)
[30] IT (102021000030824) 2021-12-07

[21] **3,239,888**
[13] A1
[51] **Int.Cl. A61F 11/00 (2022.01) H04B 1/3827 (2015.01) H04R 25/00 (2006.01)**
[25] EN
[54] **A SOUND RECEIVER WATCH FOR NON-SURGICAL HEARING AID**
[54] **MONTRE DE RECEPTEUR SONORE POUR UNE AIDE AUDITIVE NON CHIRURGICALE**
[72] PATEL, KANISHKA, IN
[71] WEHEAR INNOVATIONS PRIVATE LIMITED, IN
[85] 2024-06-03
[86] 2022-11-18 (PCT/IB2022/061121)
[87] (WO2023/237923)
[30] IN (202223032861) 2022-06-08

[21] **3,239,889**
[13] A1
[51] **Int.Cl. H04L 7/033 (2006.01) H04L 27/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROCESSING VARIABLE CODING AND MODULATION (VCM) BASED COMMUNICATION SIGNALS USING FEEDFORWARD CARRIER AND TIMING RECOVERY**
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT DE SIGNAUX DE COMMUNICATION BASE SUR UNE MODULATION ET UN CODAGE VARIABLES (VCM) A L'AIDE D'UNE PORTEUSE A ACTION DIRECTE ET D'UNE RECUPERATION DE SYNCHRONISATION**
[72] KING, BRANDON GREGORY, US
[72] JARRIEL, JEFFREY DAVID, US
[72] SUTTON, DANIEL JOSEPH, US
[72] STOLTENBERG, MATTHEW JAMES, US
[71] KRATOS INTEGRAL HOLDINGS, LLC, US
[85] 2024-06-03
[86] 2021-12-09 (PCT/US2021/062689)
[87] (WO2023/107115)

[21] **3,239,893**
[13] A1
[51] **Int.Cl. A01N 25/30 (2006.01) A01N 43/90 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITIONS**
[54] **COMPOSITIONS HERBICIDES**
[72] SCHEUBLE, NATHALIE, CH
[72] SIEBOLD, CLAUDIA, CH
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-06-03
[86] 2022-12-01 (PCT/EP2022/084025)
[87] (WO2023/104624)
[30] GB (2117595.5) 2021-12-06

[21] **3,239,898**
[13] A1
[51] **Int.Cl. G06N 10/40 (2022.01) G06N 10/20 (2022.01)**
[25] EN
[54] **METHODS AND CIRCUITS FOR PERFORMING TWO-QUBIT QUANTUM GATES**
[54] **PROCEDES ET CIRCUITS POUR REALISER DES PORTES LOGIQUES QUANTIQUES A DEUX BITS QUANTIQUES**
[72] ETHIER-MAJCHER, GABRIEL, CA
[72] OUELLET-PLAMONDON, CLAUDERIC, CA
[72] NAJAFI-YAZDI, ALIREZA, CA
[71] ANYON SYSTEMS INC., CA
[85] 2024-06-03
[86] 2022-12-08 (PCT/CA2022/051786)
[87] (WO2023/102654)
[30] US (63/287,591) 2021-12-09

[21] **3,239,903**
[13] A1
[51] **Int.Cl. F16L 57/00 (2006.01) B65D 59/06 (2006.01) E21B 17/00 (2006.01) F16L 55/115 (2006.01)**
[25] EN
[54] **PROTECTOR ASSEMBLY**
[54] **ENSEMBLE DE PROTECTION**
[72] CARBALLO, ANGEL ANDRES, NL
[72] EGGER, PABLO, NL
[72] MANTOVANO, LUCIANO OMAR, NL
[72] MAZZAFERRO, GASTON MAURO, NL
[72] ZABALOY, JULIAN IGNACIO, NL
[71] TENARIS CONNECTIONS B.V., NL
[85] 2024-06-03
[86] 2022-12-02 (PCT/EP2022/084279)
[87] (WO2023/104666)
[30] EP (21212589.2) 2021-12-06

[21] **3,239,905**
[13] A1
[51] **Int.Cl. A61N 7/00 (2006.01) A61B 8/06 (2006.01) A61B 8/08 (2006.01)**
[25] EN
[54] **NEUROVASCULAR ULTRASOUND ANALYSIS FOR ALLERGY TESTING**
[54] **ANALYSE NEUROVASCULAIRE PAR ULTRASONS POUR TEST D'ALLERGIE**
[72] BUSSELL, MARK, US
[71] LOMA LINDA UNIVERSITY, US
[85] 2024-06-03
[86] 2022-12-06 (PCT/US2022/081044)
[87] (WO2023/107969)
[30] US (63/265,028) 2021-12-06

[21] **3,239,907**
[13] A1
[51] **Int.Cl. A01N 25/30 (2006.01) A01P 13/00 (2006.01)**
[25] EN
[54] **HERBICIDAL COMPOSITIONS**
[54] **COMPOSITIONS HERBICIDES**
[72] LAMERS, PHILIP, CH
[72] SIEBOLD, CLAUDIA, CH
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-06-03
[86] 2022-12-01 (PCT/EP2022/084027)
[87] (WO2023/104625)
[30] GB (2117597.1) 2021-12-06

[21] **3,239,912**
[13] A1
[51] **Int.Cl. H01M 50/519 (2021.01) H01M 50/211 (2021.01) H01M 50/242 (2021.01) H01M 50/509 (2021.01) H01M 50/516 (2021.01) H01M 50/548 (2021.01) H01M 50/557 (2021.01) H01M 50/569 (2021.01) H01M 50/105 (2021.01)**
[25] FR
[54] **METHOD FOR MANUFACTURING A BATTERY PACK**
[54] **PROCEDE DE FABRICATION D'UN ENSEMBLE BATTERIE**
[72] DERANGERE, NICOLAS, BE
[72] DHAUSSY, FRANCK, BE
[71] PLASTIC OMNIUM CLEAN ENERGY SYSTEMS RESEARCH, FR
[85] 2024-06-03
[86] 2023-01-27 (PCT/EP2023/051973)
[87] (WO2023/144287)
[30] FR (FR2200770) 2022-01-28

[21] **3,239,914**
[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01) A61P 25/00 (2006.01) C07C 39/23 (2006.01) C07D 311/80 (2006.01)**
[25] EN
[54] **ORAL CANNABINOID COMPOSITIONS AND METHODS FOR TREATING NEUROLOGICAL DISEASES AND DISORDERS**
[54] **COMPOSITIONS DE CANNABINOIDES POUR VOIE ORALE ET METHODES DE TRAITEMENT DE MALADIES ET DE TROUBLES NEUROLOGIQUES**
[72] LE DEVEDEC, FRANTZ HENRI EMMANUEL, CA
[72] AN, DONG, CA
[72] AZADIAN, ARAS, CA
[71] AVICANNA INC., CA
[85] 2024-06-03
[86] 2022-12-01 (PCT/IB2022/061666)
[87] (WO2023/100138)
[30] US (63/264,903) 2021-12-03

[21] **3,239,915**
[13] A1
[51] **Int.Cl. A61M 37/00 (2006.01) A61M 5/32 (2006.01) A61M 31/00 (2006.01)**
[25] EN
[54] **DEVICE FOR SUBDERMAL INSERTION OF SOLID MEDIA**
[54] **DISPOSITIF D'INSERTION SOUS-CUTANEE DE MILIEUX SOLIDES**
[72] CLARK, MEREDITH ROBERTS, US
[72] THURMAN, ANDREA, US
[72] DONCEL, GUSTAVO, US
[72] PEET, M. MELISSA, US
[72] ROBINSON, JASON, US
[72] BROCKMEIER, OIVIND, US
[71] EASTERN VIRGINIA MEDICAL SCHOOL, US
[85] 2024-06-03
[86] 2022-12-02 (PCT/US2022/051602)
[87] (WO2023/102155)
[30] US (63/285,294) 2021-12-02

[21] **3,239,916**
[13] A1
[25] EN
[54] **SEQUENTIALLY STACKED MULTI-STAGE DESALINATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DESSALEMENT A ETAGES MULTIPLES EMPILES SEQUENTIELLEMENT**
[72] HAN, JONGYOON, US
[72] YOON, JUNGHYO, US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2024-06-03
[86] 2022-10-27 (PCT/US2022/047975)
[87] (WO2023/129265)
[30] US (63/294,475) 2021-12-29

[21] **3,239,922**
[13] A1
[51] **Int.Cl. A23P 30/20 (2016.01)**
[25] FR
[54] **NOZZLE FOR EXTRUDING A MATERIAL RICH IN PROTEINS AND WATER, AND SYSTEM FOR CONTINUOUS PREPARATION OF AN EXTRUDED FOOD PRODUCT**
[54] **FILIERE POUR L'EXTRUSION D'UNE MATIERE RICHE EN PROTEINES ET EN EAU, AINSI QUE SYSTEME DE PREPARATION EN CONTINU D'UN PRODUIT ALIMENTAIRE EXTRUDE**
[72] BRUNEL, SYLVIE ANDREE, FR
[72] LAVOCAT, EMMANUEL, FR
[72] MOTTAZ, JEROME, FR
[72] SALQUES, DIDIER PIERRE CLAUDE, FR
[71] CLEXTRAL, FR
[85] 2024-06-03
[86] 2022-12-19 (PCT/EP2022/086711)
[87] (WO2023/117945)
[30] FR (FR2113973) 2021-12-20

[21] **3,239,923**
[13] A1
[51] **Int.Cl. H02J 13/00 (2006.01) G05B 19/045 (2006.01) H02H 3/02 (2006.01) H02J 15/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING MULTIPLE-MICROGRID SYSTEMS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE SYSTEMES A MICRO-RESEAUX MULTIPLES**
[72] GHASAEI, ARMAN, CA
[72] IRAVANI, MOHAMMAD REZA, CA
[71] EDGETUNEPOWER INC., CA
[85] 2024-06-03
[86] 2022-12-12 (PCT/IB2022/062081)
[87] (WO2023/111821)
[30] US (63/289,089) 2021-12-13
[30] US (63/427,987) 2022-11-25

[21] **3,239,924**
[13] A1
[51] **Int.Cl. A01D 41/12 (2006.01) A01F 12/40 (2006.01)**
[25] EN
[54] **WEED SEED DESTRUCTION ON A COMBINE HARVESTER**
[54] **DESTRUCTION DE GRAINES DE MAUVAISES HERBES SUR UNE MOISSONNEUSE-BATTEUSE**
[72] MAYERLE, DEAN, CA
[71] TRITANA INTELLECTUAL PROPERTY LTD., CA
[85] 2024-06-03
[86] 2023-02-16 (PCT/CA2023/050198)
[87] (WO2023/155007)
[30] US (63/310,759) 2022-02-16
[30] US (63/322,735) 2022-03-23

[21] **3,239,925**
[13] A1
[51] **Int.Cl. B01D 15/04 (2006.01) B01J 20/02 (2006.01) B01J 20/22 (2006.01) B03D 1/00 (2006.01) C02F 1/20 (2006.01) C02F 1/72 (2006.01)**
[25] EN
[54] **BUOYANT PERMEABLE REACTIVE BARRIER**
[54] **BARRIERE REACTIVE PERMEABLE FLOTTANTE**
[72] LESHUK, TIM, CA
[72] YOUNG, ZAC, CA
[72] GU, FRANK, CA
[71] H2NANO INC., CA
[85] 2024-06-03
[86] 2022-12-01 (PCT/CA2022/051758)
[87] (WO2023/097397)
[30] US (63/284,758) 2021-12-01

[21] **3,239,926**
[13] A1
[51] **Int.Cl. F23G 5/027 (2006.01) C10J 3/18 (2006.01) F23G 5/08 (2006.01) F23G 5/10 (2006.01) A62D 3/19 (2007.01) C10J 3/72 (2006.01)**
[25] EN
[54] **PLASMA/IONIC REACTOR**
[54] **REACTEUR A PLASMA/IONIQUE**
[72] KONG, PETER C., US
[72] BITSOI, RODNEY J., US
[71] COGENT ENERGY SYSTEMS, INC., US
[85] 2024-06-03
[86] 2022-12-01 (PCT/US2022/051547)
[87] (WO2023/102123)
[30] US (63/285,076) 2021-12-01
[30] US (63/286,681) 2021-12-07
[30] US (63/296,209) 2022-01-04
[30] US (63/426,110) 2022-11-17

[21] **3,239,927**
[13] A1
[51] **Int.Cl. A61K 36/61 (2006.01) A61K 47/14 (2017.01) A61K 47/44 (2017.01)**
[25] EN
[54] **CLEANSING, MOISTURIZING AND NON-IRRITATING TOPICAL COMPOSITIONS**
[54] **COMPOSITIONS TOPIQUES DE NETTOYAGE, HYDRATANTES ET NON IRRITANTES**
[72] SARKAR, PARAMITA, US
[72] SANDS, BRANDON, US
[72] SMITH, TROY, US
[71] OCUSOFT, INC., US
[85] 2024-06-03
[86] 2022-12-14 (PCT/US2022/081569)
[87] (WO2023/114855)
[30] US (63/291,116) 2021-12-17

[21] **3,239,928**
[13] A1
[51] **Int.Cl. D04H 1/728 (2012.01) H01M 4/13 (2010.01) H01M 4/139 (2010.01)**
[25] EN
[54] **NANOMATERIAL COMPOSITIONS AND METHODS OF MAKING THE SAME**
[54] **COMPOSITIONS DE NANOMATERIAUX ET LEURS PROCEDES DE FABRICATION**
[72] IGNACIO-DE LEON, PATRICIA A., US
[72] YADAV, RADESH K., US
[72] MOODY, JARED R., US
[71] DONALDSON COMPANY, INC., US
[85] 2024-06-03
[86] 2022-12-02 (PCT/US2022/051726)
[87] (WO2023/102234)
[30] US (63/285,903) 2021-12-03

[21] **3,239,933**
[13] A1
[51] **Int.Cl. A61L 29/06 (2006.01) A61L 29/16 (2006.01)**
[25] EN
[54] **COMPOUNDED ACTIVE PHARMACEUTICAL AGENTS IN THERMOPLASTIC POLYMER COMPOSITIONS AND METHODS OF MANUFACTURE**
[54] **AGENTS PHARMACEUTIQUES ACTIFS COMPOSES DANS DES COMPOSITIONS POLYMERES THERMOPLASTIQUES ET PROCEDES DE FABRICATION**
[72] GUPTA, NISHA, US
[72] SECHRIST, KEVIN, US
[72] MARCHESE, ERIC, US
[71] TELEFLEX MEDICAL INCORPORATED, US
[85] 2024-06-03
[86] 2022-12-22 (PCT/US2022/082235)
[87] (WO2023/129866)
[30] US (63/295,132) 2021-12-30

[21] **3,239,934**
[13] A1
[51] **Int.Cl. A24F 40/60 (2020.01) A24F 40/20 (2020.01) A24F 40/50 (2020.01)**
[25] EN
[54] **AEROSOL GENERATING DEVICE AND METHOD OF OPERATING THE SAME**
[54] **DISPOSITIF DE GENERATION D'AEROSOL ET SON PROCEDE DE FONCTIONNEMENT**
[72] KIM, YONGHWAN, KR
[72] KIM, DONGSUNG, KR
[72] LIM, HUNIL, KR
[72] JANG, SEOKSU, KR
[71] KT & G CORPORATION, KR
[85] 2024-06-03
[86] 2022-12-06 (PCT/KR2022/019743)
[87] (WO2023/106804)
[30] KR (10-2021-0174257) 2021-12-07

[21] **3,239,935**
[13] A1
[51] **Int.Cl. G16B 40/20 (2019.01) G16B 5/00 (2019.01) G16B 20/30 (2019.01) G16B 40/00 (2019.01) C12N 15/10 (2006.01)**
[25] EN
[54] **ZINC FINGER DESIGN USING A HIERARCHICAL MACHINE LEARNING MODEL**
[54] **CONCEPTION DE DOIGT DE ZINC A L'AIDE D'UN MODELE D'APPRENTISSAGE AUTOMATIQUE HIERARCHIQUE**
[72] KIM, PHILIP MJONG-HYON SHIN, CA
[72] ABDIN, OSAMA, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2024-06-03
[86] 2022-12-02 (PCT/CA2022/051774)
[87] (WO2023/097406)
[30] US (63/285,282) 2021-12-02

[21] **3,239,937**
[13] A1
[51] **Int.Cl. H04L 9/06 (2006.01) H04L 9/32 (2006.01)**
[25] EN
[54] **NON-REPUDIABLE ENDORSEMENT OF A PRIVATE ATTESTATION**
[54] **APPROBATION NON REPUDIABLE D'UNE ATTESTATION PRIVEE**
[72] ROMANE, FREDERIC, FR
[72] DEBOIS, GEORGES, FR
[72] FAHER, MOURAD, FR
[71] THALES DIS FRANCE SAS, FR
[85] 2024-06-03
[86] 2022-12-02 (PCT/EP2022/084289)
[87] (WO2023/099767)
[30] EP (21306698.8) 2021-12-03

[21] **3,239,939**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 33/50 (2006.01)**
[25] EN
[54] **3D BIOASSAYS TO MEASURE ANTIBODY-DEPENDENT CELL-MEDIATED CYTOTOXICITY**
[54] **BIOESSAIS 3D DE MESURE DE CYTOTOXICITE A MEDIATION CELLULAIRE DEPENDANT D'ANTICORPS**
[72] JIA, XIAOQING, CN
[72] CHEN, MIN, CN
[71] WUXI BIOLOGICS IRELAND LIMITED, IE
[85] 2024-06-03
[86] 2022-11-24 (PCT/CN2022/133859)
[87] (WO2023/103785)
[30] CN (PCT/CN2021/135837) 2021-12-06

[21] **3,239,941**
[13] A1
[51] **Int.Cl. B61D 1/08 (2006.01) B61D 25/00 (2006.01)**
[25] EN
[54] **PASSENGER RAIL VEHICLE HAVING AN EMERGENCY EXIT**
[54] **VEHICULE FERROVIAIRE A VOYAGEURS AYANT UNE SORTIE DE SECOURS**
[72] FUSSI, ANDREAS, AT
[72] POGLITSCH, HELMUT, AT
[72] STOESZ, HARALD, AT
[71] SIEMENS MOBILITY AUSTRIA GMBH, AT
[85] 2024-06-03
[86] 2022-12-12 (PCT/EP2022/085408)
[87] (WO2023/110756)
[30] AT (A 51000/2021) 2021-12-14

[21] **3,239,943**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01)**
[25] EN
[54] **BIOASSAYS TO MEASURE SYNERGISTIC ANTIBODY-DEPENDENT ENHANCEMENT (ADE) EFFECT OF SARS-COV-2 NEUTRALIZING ANTIBODIES**
[54] **ESSAIS BIOLOGIQUES POUR MESURER L'EFFET SYNERGIQUE DE LA FACILITATION DE L'INFECTION PAR DES ANTICORPS (ADE) D'ANTICORPS NEUTRALISANT LE SARS-COV-2**
[72] CHEN, MIN, CN
[72] JIA, XIAOQING, CN
[71] WUXI BIOLOGICS IRELAND LIMITED, IE
[85] 2024-06-03
[86] 2022-11-30 (PCT/CN2022/135470)
[87] (WO2023/103856)
[30] CN (PCT/CN2021/135840) 2021-12-06

[21] **3,239,944**
[13] A1
[51] **Int.Cl. C12Q 1/686 (2018.01)**
[25] EN
[54] **RECEPTOR-MEDIATED DELIVERY OF NUCLEIC ACIDS**
[54] **ADMINISTRATION D'ACIDES NUCLEIQUES MEDIEE PAR UN RECEPTEUR**
[72] JOHNSON, ANTHONY, US
[72] BERNAL-MIZRACHI, LEON, US
[72] CINAR, MUNEVVER, US
[71] KODIKAZ THERAPEUTIC SOLUTIONS, INC., US
[71] EMORY UNIVERSITY, US
[85] 2024-06-03
[86] 2022-12-06 (PCT/US2022/081039)
[87] (WO2023/107964)
[30] US (63/286,915) 2021-12-07
[30] US (63/369,908) 2022-07-29

[21] **3,239,945**
[13] A1
[51] **Int.Cl. D04H 1/4266 (2012.01) D04H 1/492 (2012.01) D04H 1/732 (2012.01)**
[25] EN
[54] **HEMP HURD-BASED NON-WOVEN MATERIAL AND RELATED PRODUCTION METHOD**
[54] **MATERIAU NON TISSE A BASE D'ETOUPE DE CHANVRE ET PROCEDE DE PRODUCTION ASSOCIE**
[72] GAGLIARDINI, ALESSANDRO, IT
[72] CIMINI, CARMINE, IT
[72] ODOARDI, RENZO MARCELLO, IT
[71] TEXOL S.R.L., IT
[85] 2024-06-03
[86] 2023-01-12 (PCT/IB2023/050285)
[87] (WO2023/135548)
[30] IT (102022000000437) 2022-01-13

[21] **3,239,946**
[13] A1
[51] **Int.Cl. F04D 29/046 (2006.01) F16C 17/26 (2006.01)**
[25] EN
[54] **BEARING ASSEMBLIES, APPARATUSES, DEVICES, SYSTEMS, AND METHODS INCLUDING BEARINGS**
[54] **ENSEMBLES PALIERS, APPAREILS, DISPOSITIFS, SYSTEMES ET PROCEDES COMPRENANT DES PALIERS**
[72] CHAMPLIN, BRETT, US
[72] WITT, JOEY, US
[72] HICKS, BRIAN, US
[72] HAGEMAN, ALEX, US
[71] PCS FERGUSON, INC., US
[85] 2024-06-03
[86] 2022-11-10 (PCT/US2022/049632)
[87] (WO2023/113952)
[30] US (17/549,628) 2021-12-13

[21] **3,239,947**
[13] A1
[51] **Int.Cl. F01K 25/02 (2006.01)**
[25] EN
[54] **ENERGY STORAGE SYSTEMS AND METHODS USING HETEROGENEOUS PRESSURE MEDIA AND INTERACTIVE ACTUATION MODULE**
[54] **SYSTEMES ET PROCEDES DE STOCKAGE D'ENERGIE A L'AIDE DE MODULE DE FLUIDES SOUS PRESSION HETEROGENES ET D'ACTIONNEMENT INTERACTIF**
[72] DING, LIEN CHUN, TW
[72] SU, QIU SHUI, CN
[72] LIN, SONG YUAN, CN
[72] TAI, CHIH CHENG, US
[71] POWER8 TECH INC., US
[85] 2024-06-03
[86] 2022-05-16 (PCT/US2022/029374)
[87] (WO2023/101718)
[30] CN (202111466565.5) 2021-12-03

[21] **3,239,949**
[13] A1
[51] **Int.Cl. G01N 24/08 (2006.01) E21B 47/13 (2012.01) G01N 24/12 (2006.01) G01V 3/32 (2006.01) E21B 49/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR NUCLEAR MAGNETIC RESONANCE (NMR) WELL LOGGING**
[54] **SYSTEMES ET PROCEDES DE DIAGRAPHIE DE PUITS PAR RESONANCE MAGNETIQUE NUCLEAIRE (RMN)**
[72] JIANG, TIANMIN, US
[72] BONNIE, RONALD J. M., US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2024-06-03
[86] 2023-01-24 (PCT/US2023/011417)
[87] (WO2023/141350)
[30] US (63/302,391) 2022-01-24

[21] **3,239,950**
[13] A1
[51] **Int.Cl. A61K 8/49 (2006.01) A61Q 17/04 (2006.01) A61Q 19/00 (2006.01) C07D 221/04 (2006.01) C07D 309/08 (2006.01) C07D 311/94 (2006.01)**
[25] EN
[54] **COMPOUNDS ATTACHABLE TO SKIN**
[54] **COMPOSES POUVANT SE FIXER SUR LA PEAU**
[72] CAPUTO, CHRISTOPHER B., CA
[72] MANHAS, SANJAY, CA
[71] INKBOX INK INCORPORATED, CA
[85] 2024-06-03
[86] 2022-12-07 (PCT/CA2022/051783)
[87] (WO2023/102652)
[30] US (63/287,069) 2021-12-07

[21] **3,239,954**
[13] A1
[51] **Int.Cl. D01F 9/127 (2006.01) D01F 9/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCING CARBON SOLIDS**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION DE SOLIDES DE CARBONE**
[72] SOANE, DAVID S., US
[72] SOANE, ALEXANDER V., US
[71] SOANE LABS, LLC, US
[85] 2024-06-03
[86] 2022-12-21 (PCT/US2022/053699)
[87] (WO2023/122204)
[30] US (63/292,151) 2021-12-21

[21] **3,239,956**
[13] A1
[51] **Int.Cl. G06F 21/31 (2013.01) G06V 10/10 (2022.01) G06V 30/224 (2022.01)**
[25] EN
[54] **PREDICTIVE SYSTEM OF IDENTIFICATION AND AUTHENTICATION THROUGH IMAGES**
[54] **SYSTEME PREDICTIF D'IDENTIFICATION ET D'AUTHENTIFICATION A TRAVERS DES IMAGES**
[72] CATANIA, ANTONMARCO, IT
[71] CATANIA, ANTONMARCO, IT
[85] 2024-06-03
[86] 2022-12-06 (PCT/IB2022/061813)
[87] (WO2023/105400)
[30] IT (102021000030803) 2021-12-06

[21] **3,239,957**
[13] A1
[51] **Int.Cl. A01K 5/02 (2006.01) A01K 29/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETECTING EATING PATTERNS OF A PET**
[54] **SYSTEMES ET PROCEDES DE DETECTION DE MOTIFS D'ALIMENTATION D'UN ANIMAL DE COMPAGNIE**
[72] CARSON, ALETHA, US
[72] ALLEN, DAVID, US
[72] PRESCOTT, LAURA, US
[71] MARS, INCORPORATED, US
[85] 2024-06-03
[86] 2022-12-06 (PCT/US2022/080981)
[87] (WO2023/107918)
[30] US (63/286,721) 2021-12-07

[21] **3,239,960**
[13] A1
[51] **Int.Cl. D21H 19/20 (2006.01) D21H 19/22 (2006.01) D21H 19/82 (2006.01) D21H 21/16 (2006.01)**
[25] EN
[54] **GAS BARRIER LAMINATE**
[54] **STRATIFIE FORMANT UNE BARRIERE AUX GAZ**
[72] YAN, QIANGQIANG, CN
[72] SONG, XIAOMEI, CN
[72] HE, YAFEI, CN
[72] CHEN, HONGYU, CN
[72] EINSLA, BRIAN, US
[72] DRUMRIGHT, RAY, US
[72] ZHANG, XIANGYI, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-06-03
[86] 2021-12-07 (PCT/CN2021/136058)
[87] (WO2023/102725)

[21] **3,239,961**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01) E21B 43/30 (2006.01) G06F 30/20 (2020.01)**
[25] EN
[54] **OPTIMIZING WELL SEQUENCES IN A WELL DEVELOPMENT ZONE**
[54] **OPTIMISATION DE SEQUENCES DE PUITS DANS UNE ZONE DE DEVELOPPEMENT DE PUITS**
[72] COFFMAN, SARAH W., US
[72] PAZ LOPEZ, RAFAEL E., US
[72] NUNEZ, OSWALDO, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2024-06-03
[86] 2023-01-24 (PCT/US2023/011423)
[87] (WO2023/141351)
[30] US (63/302,307) 2022-01-24

[21] **3,239,964**
[13] A1
[51] **Int.Cl. B65H 26/02 (2006.01) B65H 26/00 (2006.01) B65H 43/00 (2006.01) B65H 43/08 (2006.01)**
[25] EN
[54] **WEB POSITION TRACKING**
[54] **SUIVI DE POSITION DE BANDE**
[72] REUNANEN, JUHA, CA
[72] BRIDGE,COLIN PETER, CA
[71] IBS AUSTRIA GMBH, AT
[85] 2024-06-03
[86] 2022-12-08 (PCT/CA2022/051791)
[87] (WO2023/102657)
[30] US (63/287,675) 2021-12-09

[21] **3,239,965**
[13] A1
[51] **Int.Cl. C08F 265/06 (2006.01)**
[25] EN
[54] **ACRYLIC COPOLYMER COMPOSITIONS FOR USE AS SEALANTS**
[54] **COMPOSITIONS DE COPOLYMERE ACRYLIQUE DESTINEES A ETRE UTILISEES EN TANT QUE PRODUITS D'ETANCHEITE**
[72] YEUNG, KIMY, US
[72] LISS, AUDREY, US
[72] WESTMEYER, MARK, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-06-03
[86] 2022-10-25 (PCT/US2022/047655)
[87] (WO2023/107204)
[30] US (63/287,182) 2021-12-08

[21] **3,239,966**
[13] A1
[51] **Int.Cl. B23K 26/03 (2006.01) B23K 26/046 (2014.01) B23K 26/082 (2014.01) B23K 26/402 (2014.01) B23K 26/53 (2014.01) B23K 26/70 (2014.01) B23K 26/36 (2014.01)**
[25] EN
[54] **LASER DEVICE AND ITS USE AND METHOD FOR PROCESSING A GLASS SHEET**
[54] **DISPOSITIF LASER ET SON UTILISATION, ET PROCEDE DE TRAITEMENT D'UNE FEUILLE DE VERRE**
[72] HOTGER, BERNHARD, DE
[72] RAINER, THOMAS, DE
[71] HEGLA BORAIDENT GMBH & CO. KG, DE
[85] 2024-06-03
[86] 2022-11-09 (PCT/EP2022/081267)
[87] (WO2023/117195)
[30] DE (10 2021 215 023.3) 2021-12-23

[21] **3,239,967**
[13] A1
[51] **Int.Cl. A47G 33/06 (2006.01) F21S 4/00 (2016.01)**
[25] EN
[54] **COLLAPSIBLE CONE TREE**
[54] **ARBRE A CONE PLIABLE**
[72] NGUY, CHUNWA, US
[71] HOLIDAY DESIGNS, LLC, US
[85] 2024-06-03
[86] 2022-12-06 (PCT/US2022/051936)
[87] (WO2023/107432)
[30] US (63/286,831) 2021-12-07
[30] US (18/075,157) 2022-12-05

[21] **3,239,968**
[13] A1
[51] **Int.Cl. A01G 23/00 (2006.01) B66C 1/58 (2006.01)**
[25] EN
[54] **AUXILIARY BEAM FOR AN ENERGY WOOD GRAPPLE AND A SYSTEM AND METHOD FOR HARVESTING ENERGY WOOD**
[54] **POUTRE AUXILIAIRE POUR GRAPPIN A BOIS SOURCE D'ENERGIE ET SYSTEME ET PROCEDE DE RECOLTE DE BOIS SOURCE D'ENERGIE**
[72] KOPONEN, TENHO, FI
[72] KOPONEN, MIKA, FI
[71] TMK MACHINERY OY, FI
[85] 2024-06-03
[86] 2022-11-23 (PCT/FI2022/050781)
[87] (WO2023/099811)
[30] FI (20216245) 2021-12-03

[21] **3,239,969**
[13] A1
[51] **Int.Cl. G04F 5/14 (2006.01) H03L 7/26 (2006.01)**
[25] EN
[54] **MODULAR SOFTWARE DEFINED ATOMIC CLOCK SYSTEMS AND METHODS THEREOF**
[54] **SYSTEMES D'HORLOGE ATOMIQUE DEFINIS PAR LOGICIEL MODULAIRE ET LEURS PROCEDES**
[72] GROP, SERGE, CH
[71] OROLIA SWITZERLAND S.A., CH
[85] 2024-06-03
[86] 2022-11-30 (PCT/IB2022/000745)
[87] (WO2023/105287)
[30] US (17/548,140) 2021-12-10

[21] **3,239,970**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06F 30/20 (2020.01) G06N 3/08 (2023.01)**
[25] EN
[54] **MACHINE LEARNING BASED RESERVOIR MODELING**
[54] **MODELISATION DE RESERVOIR BASEE SUR L'APPRENTISSAGE AUTOMATIQUE**
[72] HUANG, CHUNG-KAN, US
[72] CHEN, QING, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2024-06-03
[86] 2023-01-24 (PCT/US2023/011427)
[87] (WO2023/141354)
[30] US (63/302,322) 2022-01-24

[21] **3,239,971**
[13] A1
[51] **Int.Cl. G01N 29/46 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ACOUSTIC MONITORING OF TRAYED DISTILLATION COLUMNS**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE ACOUSTIQUE DE COLONNES DE DISTILLATION A PLATEAUX**
[72] GEORGE, SHERINE, US
[72] HEIDER, PATRICK L., US
[72] WANG, ZHENYU, US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-03
[86] 2022-12-07 (PCT/US2022/081061)
[87] (WO2023/107981)
[30] US (63/287,201) 2021-12-08

[21] **3,239,972**
[13] A1
[51] **Int.Cl. A63F 9/08 (2006.01) A63F 9/12 (2006.01) A63F 9/34 (2006.01)**
[25] EN
[54] **DUAL GEOMETRY HINGED MAGNETIC PUZZLES**
[54] **PUZZLES MAGNETIQUES A CHARNIERE A GEOMETRIE DOUBLE**
[72] SHENG, YU, CN
[72] SCHLAPIK, KEVIN D., US
[71] SCHLAPIK, KEVIN D., US
[85] 2024-06-03
[86] 2023-01-10 (PCT/US2023/060406)
[87] (WO2023/137277)
[30] US (63/298,718) 2022-01-12

[21] **3,239,973**
[13] A1
[51] **Int.Cl. G01J 3/02 (2006.01) G01J 3/42 (2006.01)**
[25] FR
[54] **OPTICAL IMAGING SYSTEM WITH MULTIPLE PATHS ARRANGED IN PARALLEL AND A COMMON ENTRANCE APERTURE**
[54] **SYSTEME OPTIQUE IMAGEUR A PLUSIEURS VOIES DISPOSEES EN PARALLELE ET OUVERTURE D'ENTREE COMMUNE**
[72] DRUART, GUILLAUME, FR
[72] DOMEL, ROLAND, FR
[72] MAS, ADRIEN, FR
[72] COMPAIN, ERIC, FR
[72] FAVIER, SYLVAIN, FR
[71] OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, FR
[85] 2024-06-03
[86] 2022-11-29 (PCT/EP2022/083682)
[87] (WO2023/110391)
[30] FR (FR2113519) 2021-12-14

[21] **3,239,974**
[13] A1
[51] **Int.Cl. C23C 4/129 (2016.01)**
[25] EN
[54] **THIN COATINGS FOR HYDRAULIC COMPONENTS**
[54] **REVETEMENTS MINCES POUR COMPOSANTS HYDRAULIQUES**
[72] SORDELET, DANIEL J., US
[72] GOSLOVICH, KURT S., US
[72] HENDERSON, STEVEN J., US
[71] CATERPILLAR INC., US
[85] 2024-06-03
[86] 2022-11-22 (PCT/US2022/080309)
[87] (WO2023/107821)
[30] US (17/643,343) 2021-12-08

[21] **3,239,975**
[13] A1
[51] **Int.Cl. A61K 36/77 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS COMPRISING DIMOCARPUS EXTRACT FOR USE IN THE TREATMENT OR PREVENTION OF AN INFECTION CAUSED BY AN ENVELOPED VIRUS**
[54] **COMPOSITIONS COMPRENANT UN EXTRAIT DE DIMOCARPUS DESTINE A ETRE UTILISE DANS LE TRAITEMENT OU LA PREVENTION D'UNE INFECTION PROVOQUEE PAR UN VIRUS ENVELOPPE**
[72] MAHAGITSIRI, PRAYUDH, TH
[72] MAHAGITSIRI, CHALERMCHAI, TH
[72] MAHAGITSIRI, AUSANA, TH
[72] JAKSCHITZ, THOMAS, AT
[72] SENLI, GOKHAN, AT
[72] BONN, GUNTHER, AT
[71] PM GROUP COMPANY LIMITED, TH
[85] 2024-06-03
[86] 2022-12-07 (PCT/IB2022/061868)
[87] (WO2023/105429)
[30] EP (21212834.2) 2021-12-07

[21] **3,239,976**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) A63F 13/35 (2014.01) A63F 3/08 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR ELECTRONIC INSTANT RAFFLES**
[54] **PROCEDE ET SYSTEME DE TOMBOLA INSTANTANEE ELECTRONIQUE**
[72] CORRENTE, MATTHEW, CA
[72] MATICH, MIKE, CA
[71] SQUARESCORE INC., CA
[85] 2024-06-03
[86] 2022-12-05 (PCT/CA2022/051778)
[87] (WO2023/097409)
[30] US (63/285,743) 2021-12-03

[21] **3,239,977**
[13] A1
[51] **Int.Cl. C09C 1/48 (2006.01) C01B 3/24 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PRODUCING CARBON SOLIDS**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION DE SOLIDES DE CARBONE**
[72] SOANE, DAVID S., US
[72] SOANE, ALEXANDER V., US
[71] SOANE LABS, LLC, US
[85] 2024-06-03
[86] 2022-12-21 (PCT/US2022/053697)
[87] (WO2023/122202)
[30] US (63/292,161) 2021-12-21

[21] **3,239,978**
[13] A1
[51] **Int.Cl. E21B 7/15 (2006.01) G01N 21/67 (2006.01)**
[25] EN
[54] **CONTINUOUS EMISSIONS MONITOR FOR DIRECTED-ENERGY BOREHOLE DRILLING**
[54] **DISPOSITIF DE SURVEILLANCE D'EMISSIONS CONTINUES POUR FORAGE DE TROU DE FORAGE A ENERGIE DIRIGEE**
[72] WOSKOV, PAUL P., US
[71] MASSACHUSETTS INSTITUTE OF TECHNOLOGY, US
[85] 2024-06-03
[86] 2022-10-18 (PCT/US2022/078254)
[87] (WO2023/122371)
[30] US (63/291,744) 2021-12-20

[21] **3,239,979**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING POLYPEPTIDE COMPLEXES CONTAINING EXTRACELLULAR DOMAINS OF TNFSF LIGANDS**
[54] **COMPLEXES POLYPEPTIDIQUES DE LIAISON A L'ANTIGENE CONTENANT DES DOMAINES EXTRACELLULAIRES DE LIGANDS DE TNFSF**
[72] KAMP, HEATHER DAWN, US
[72] SEUNG, EDWARD, US
[72] YANG, ZHI-YONG, US
[72] NABEL, GARY J., US
[72] WEI, RONNIE R., US
[72] ZERHOUNI, ELIAS, US
[71] MODEX THERAPEUTICS, INC., US
[85] 2024-06-03
[86] 2022-12-16 (PCT/US2022/081745)
[87] (WO2023/114965)
[30] US (63/291,305) 2021-12-17

[21] **3,239,980**
[13] A1
[51] **Int.Cl. G06F 21/70 (2013.01) G06F 21/55 (2013.01) G06F 21/56 (2013.01) G06F 21/57 (2013.01) G06F 21/60 (2013.01) G06F 21/50 (2013.01)**
[25] EN
[54] **SECURE SENTINEL NETWORK**
[54] **RESEAU SENTINELLE SECURISE**
[72] HAMILL, COLIN, US
[71] SENTINEL FORGED TECHNOLOGIES, US
[85] 2024-06-03
[86] 2022-12-05 (PCT/US2022/080919)
[87] (WO2023/102566)
[30] US (63/285,645) 2021-12-03
[30] US (18/061,677) 2022-12-05

[21] **3,239,981**
[13] A1
[51] **Int.Cl. C12N 15/90 (2006.01)**
[25] EN
[54] **MULTI-VECTOR RECOMBINASE MEDIATED CASSETTE EXCHANGE**
[54] **ECHANGE DE CASSETTE A MEDIATION PAR RECOMBINASE A VECTEURS MULTIPLES**
[72] NG, CHI KIN DOMINGOS, US
[72] SHEN, AMY, US
[72] BARNARD, GAVIN CHRISTIAN, US
[71] GENENTECH, INC., US
[85] 2024-06-03
[86] 2022-12-22 (PCT/US2022/053761)
[87] (WO2023/122246)
[30] US (63/292,869) 2021-12-22

[21] **3,239,982**
[13] A1
[51] **Int.Cl. G01N 17/02 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR MEASURING A CONDUIT IN A SUBMERGED OR SUBTERRANEOUS ENVIRONMENT**
[54] **DISPOSITIF ET PROCEDE DE MESURE D'UN CONDUIT DANS UN ENVIRONNEMENT IMMERGE OU SOUTERRAIN**
[72] DESMET, YVES MARIE-LOUIS GABRIEL, BE
[71] ISENSPRO NV, BE
[85] 2024-06-03
[86] 2022-12-09 (PCT/EP2022/085145)
[87] (WO2023/110665)
[30] NL (2030136) 2021-12-15

[21] **3,239,983**
[13] A1
[51] **Int.Cl. E21B 47/04 (2012.01) E21B 47/01 (2012.01) E21B 47/024 (2006.01)**
[25] EN
[54] **DEPTH MEASUREMENT WITHIN A BOREHOLE**
[54] **MESURE DE PROFONDEUR A L'INTERIEUR D'UN TROU DE FORAGE**
[72] KOPLAN, CHRIS, AU
[72] HAY, WAYNE, AU
[72] WHITE, MATTHEW, AU
[72] BLAINE, FRED, AU
[71] IMDEX TECHNOLOGIES PTY LTD, AU
[85] 2024-06-04
[86] 2022-12-22 (PCT/AU2022/051577)
[87] (WO2023/115151)
[30] AU (2021904223) 2021-12-23

[21] **3,240,009**
[13] A1
[51] **Int.Cl. G06F 30/18 (2020.01) G06F 30/12 (2020.01)**
[25] EN
[54] **PIPING DESIGN SUPPORT DEVICE**
[54] **DISPOSITIF D'AIDE A LA CONCEPTION DE TUYAUTERIE**
[72] TAKAHASHI, SHIMPEI, JP
[72] HAYASHI, MITSUO, JP
[71] KUBOTA CORPORATION, JP
[85] 2024-06-04
[86] 2022-11-21 (PCT/JP2022/042975)
[87] (WO2023/106074)
[30] JP (2021-199490) 2021-12-08

[21] **3,240,012**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 9/01 (2021.01) C25B 9/05 (2021.01) C25B 9/23 (2021.01) C25B 9/60 (2021.01) C25B 9/63 (2021.01) C25B 9/67 (2021.01) C25B 9/77 (2021.01) C25B 15/021 (2021.01) C25B 15/023 (2021.01) C25B 15/025 (2021.01) C25B 1/26 (2006.01)**
[25] EN
[54] **ELECTROLYSIS CELL WITH A CELL CASING MADE FROM METAL FOIL AND ELECTROLYZER**
[54] **CELLULE D'ELECTROLYSE DOTEE D'UN BOITIER DE CELLULE EN FEUILLE METALLIQUE ET ELECTROLYSEUR**
[72] TOROS, PETER, DE
[72] AUSTENFELD, SEBASTIAN, DE
[71] THYSSENKRUPP NUCERA AG & CO. KGAA, DE
[85] 2024-06-04
[86] 2022-12-06 (PCT/EP2022/084554)
[87] (WO2023/104776)
[30] EP (21 213 031.4) 2021-12-08

[21] **3,240,013**
[13] A1
[51] **Int.Cl. A01K 51/00 (2006.01)**
[25] EN
[54] **SUBLIMATION DEVICE FOR PROTECTING HONEY BEES AGAINST INSECTS**
[54] **DISPOSITIF DE SUBLIMATION POUR LA PROTECTION DES ABEILLES MELLIFERES CONTRE LES INSECTES**
[72] FENYOSY, JANOS, HU
[71] FENYOSY, JANOS, HU
[85] 2024-06-04
[86] 2022-12-14 (PCT/HU2022/050089)
[87] (WO2023/111605)
[30] HU (P2100431) 2021-12-14

[21] **3,240,017**
[13] A1
[51] **Int.Cl. B23F 5/16 (2006.01) B23F 21/20 (2006.01) B23F 19/10 (2006.01)**
[25] EN
[54] **WORKPIECE CHAMFERING**
[54] **CHANFREINAGE DE PIECE A TRAVAILLER**
[72] BOGAERTS, KRIS MARIA ROBERT, FR
[71] FELSOMAT GMBH & CO. KG, DE
[85] 2024-06-04
[86] 2022-12-05 (PCT/GB2022/053084)
[87] (WO2023/105199)
[30] GB (2117716.7) 2021-12-08

[21] **3,240,018**
[13] A1
[51] **Int.Cl. A61K 35/15 (2015.01) A61K 35/17 (2015.01) A61P 9/14 (2006.01)**
[25] EN
[54] **COMPOSITION FOR TREATING OR PREVENTING VASCULITIS AND DISEASES ASSOCIATED WITH VASCULITIS**
[54] **COMPOSITION POUR LE TRAITEMENT OU LA PREVENTION DE LA VASCULARITE ET DES MALADIES ASSOCIEES A LA VASCULARITE**
[72] ANKERSMIT, HENDRIK JAN, AT
[72] MILDNER, MICHAEL, AT
[71] APOSCIENCE AG, AT
[85] 2024-06-04
[86] 2022-12-20 (PCT/EP2022/087106)
[87] (WO2023/118219)
[30] EP (21216132.7) 2021-12-20

[21] **3,240,021**
[13] A1
[51] **Int.Cl. A61J 7/00 (2006.01) A61J 7/04 (2006.01)**
[25] EN
[54] **AUTOMATIC, GRAVITY-FED, SOLID DOSAGE FORM DISPENSER**
[54] **DISTRIBUTEUR AUTOMATIQUE DE FORME POSOLOGIQUE SOLIDE ALIMENTE PAR GRAVITE**
[72] MARCOZ, ALAIN, FR
[71] BIOCORP PRODUCTION S.A.S., FR
[85] 2024-06-04
[86] 2022-01-21 (PCT/IB2022/000046)
[87] (WO2023/139400)

[21] **3,240,023**
[13] A1
[51] **Int.Cl. C02F 1/467 (2006.01) C02F 1/36 (2006.01)**
[25] EN
[54] **DEVICES, SYSTEMS AND METHODS FOR FLUID TREATMENT**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DESTINES AU TRAITEMENT DE FLUIDES**
[72] SCHMITT, DANIEL, DE
[72] TRETBAR, STEFFEN, DE
[72] BECKER, MICHAEL FRANK, US
[72] WITT, SUZANNE, US
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE
[71] FRAUNHOFER, USA, INC., US
[85] 2024-06-04
[86] 2023-01-04 (PCT/US2023/060056)
[87] (WO2023/133384)
[30] US (63/266,370) 2022-01-04

[21] **3,240,024**
[13] A1
[51] **Int.Cl. A47J 27/086 (2006.01)**
[25] EN
[54] **LID ASSEMBLY AND MULTIFUNCTIONAL COOKING UTENSIL**
[54] **ENSEMBLE COUVERCLE ET USTENSILE DE CUISSON MULTIFONCTIONNEL**
[72] XU, FEI, CN
[72] OUYANG, XUZHONG, CN
[71] ZHEJIANG SHAOXING SUPOR DOMESTIC ELECTRICAL APPLIANCE CO., LTD., CN
[85] 2024-06-04
[86] 2022-09-21 (PCT/CN2022/120300)
[87] (WO2023/116092)
[30] CN (202111589569.2) 2021-12-23
[30] CN (202123264535.4) 2021-12-23
[30] CN (202210416736.1) 2022-04-20
[30] CN (202220918150.0) 2022-04-20

[21] **3,240,025**
[13] A1
[51] **Int.Cl. A61B 17/12 (2006.01)**
[25] EN
[54] **DEVICE, SYSTEM AND METHOD FOR TREATMENT OF A VESSEL**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE TRAITEMENT D'UN VAISSEAU**
[72] POUPONNEAU, PIERRE, FR
[71] ARTEDRONE, FR
[85] 2024-06-04
[86] 2022-12-22 (PCT/EP2022/087403)
[87] (WO2023/118400)
[30] EP (21315292.9) 2021-12-24

[21] **3,240,026**
[13] A1
[51] **Int.Cl. B63B 35/44 (2006.01) B63B 77/00 (2020.01) E02B 17/02 (2006.01) E02D 27/52 (2006.01)**
[25] EN
[54] **GRAVITY-BASED STRUCTURE (GBS)**
[54] **BASE DE TYPE GRAVITAIRE (BTG)**
[72] MIKHELSON, LEONID VIKTOROVICH, RU
[72] RETIVOV, VALERIY NIKOLAEVICH, RU
[72] SOLOVYEV, SERGEY GENNADYEVICH, RU
[71] PUBLICHNOE AKTSIONERNOE OBSCHESTVO "NOVATEK", RU
[85] 2024-06-04
[86] 2022-10-10 (PCT/RU2022/000310)
[87] (WO2023/113640)
[30] RU (2021137146) 2021-12-15

[21] **3,240,027**
[13] A1
[25] EN
[54] **SUPPORT STRUCTURES FOR AUTOMATED CELL ENGINEERING SYSTEMS**
[54] **STRUCTURES DE SUPPORT POUR SYSTEMES D'INGENIERIE CELLULAIRE AUTOMATISES**
[72] PARSONS, SCOTT, CA
[72] LOVELESS, MIKE, CA
[72] MERIC, KEVIN, CA
[72] CHAMBERLIN, WES, CA
[72] MAGYAR, ROBERT, CA
[72] NUTTALL, MICHAEL, CA
[71] OCTANE BIOTECH, INC., CA
[85] 2024-06-04
[86] 2023-01-23 (PCT/US2023/061083)
[87] (WO2023/141621)
[30] US (63/302,366) 2022-01-24

[21] **3,240,030**
[13] A1
[51] **Int.Cl. G02F 1/15 (2019.01) G02F 1/1524 (2019.01) E06B 3/67 (2006.01) G02F 1/153 (2006.01) G02F 1/163 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING CURVED ELECTROCHROMIC DEVICES**
[54] **PROCEDE DE FABRICATION DE DISPOSITIFS ELECTROCHROMIQUES INCURVES**
[72] BERLINGUETTE, CURTIS PAUL, CA
[72] CHAU, PAK LUN, CA
[72] KIRKEY, AARON MATTHEW LORNE, CA
[72] LEHNER, MELISSA LAN, CA
[71] MIRU SMART TECHNOLOGIES CORP., CA
[85] 2024-06-04
[86] 2022-12-06 (PCT/CA2022/000068)
[87] (WO2023/102643)
[30] US (63/286,247) 2021-12-06

[21] **3,240,031**
[13] A1
[51] **Int.Cl. G06F 16/21 (2019.01) G06F 16/25 (2019.01) G06F 16/907 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TENANT SPECIFIC DATA MODELING FOR FIELD VERSIONING AND DOMAIN INTERCONNECTION**
[54] **SYSTEME ET PROCEDE DE MODELISATION DE DONNEES SPECIFIQUES DE LOCATAIRE POUR UN VERSIONNAGE DE CHAMP ET UNE INTERCONNEXION DE DOMAINE**
[72] CARR, BRIAN M., US
[72] SNYDER, JAMES D., US
[72] MACAULAY, ROBERT J., US
[71] CS DISCO, INC., US
[85] 2024-06-04
[86] 2022-12-16 (PCT/US2022/053102)
[87] (WO2023/121953)
[30] US (63/291,747) 2021-12-20

[21] **3,240,032**
[13] A1
[51] **Int.Cl. E06B 3/663 (2006.01) E06B 3/673 (2006.01)**
[25] EN
[54] **SPACER WITH IMPROVED MECHANICAL STIFFNESS**
[54] **ENTRETOISE A RIGIDITE MECANIQUE AMELIOREE**
[72] BORCHMANN, NIKOLAI, DE
[72] SCHREIBER, WALTER, DE
[72] MARJAN, CHRISTOPHER, DE
[72] DELEURENCE, REMI, DE
[72] BOUSMAT, JONAS, DE
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2024-06-04
[86] 2023-04-11 (PCT/EP2023/059441)
[87] (WO2023/198709)
[30] EP (22168277.6) 2022-04-14

[21] **3,240,034**
[13] A1
[51] **Int.Cl. B24C 5/02 (2006.01) B24C 5/04 (2006.01) B25G 1/06 (2006.01) B05B 15/60 (2018.01) B05B 15/63 (2018.01) A62C 33/04 (2006.01)**
[25] EN
[54] **APPARATUS, METHODS, AND SYSTEMS FOR ABRASIVE BLASTING**
[54] **APPAREIL, PROCEDES ET SYSTEMES DE SABLAGE ABRASIF**
[72] NGUYEN, PHUONG TAYLOR, US
[72] HUMMEL, JEFFREY WAYNE, US
[71] AXXIOM MANUFACTURING, INC., US
[85] 2024-06-04
[86] 2022-12-01 (PCT/US2022/051502)
[87] (WO2023/107325)
[30] US (63/286,547) 2021-12-06

[21] **3,240,035**
[13] A1
[51] **Int.Cl. G07D 7/00 (2016.01) B42D 25/328 (2014.01) G06V 10/10 (2022.01) G06V 10/20 (2022.01) G06V 10/56 (2022.01) G06V 10/70 (2022.01) G06V 30/40 (2022.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR THE AUTHENTICATION OF HOLOGRAM PROTECTED IDENTITY DOCUMENTS**
[54] **PROCEDE ET SYSTEME D'AUTHENTIFICATION DE DOCUMENTS D'IDENTITE PROTEGES PAR UN HOLOGRAMME**
[72] VINCENT, NICOLE, FR
[72] KURTZ, CAMILLE, FR
[72] KADA, OUMAYMA, FR
[72] VAN KIEU, CUONG, CA
[71] IMDS GROUP INC., CA
[85] 2024-06-04
[86] 2023-01-28 (PCT/CA2023/050120)
[87] (WO2023/141726)
[30] US (63/304,608) 2022-01-29

[21] **3,240,036**
[13] A1
[51] **Int.Cl. C08G 18/20 (2006.01) C08G 18/18 (2006.01) C08G 18/48 (2006.01) C08G 18/76 (2006.01) C08K 3/04 (2006.01) C08K 3/30 (2006.01) C08K 3/34 (2006.01) C08L 75/04 (2006.01)**
[25] EN
[54] **FOAMABLE MULTICOMPONENT COMPOSITION, AND FOAMED FIRE-PROTECTION PROFILE COMPRISING TEMPERATURE-REGULATING FILLERS**
[54] **COMPOSITION EXPANSIBLE A CONSTITUANTS MULTIPLES, ET PROFILE DE PROTECTION CONTRE L'INCENDIE EXPANSE AYANT DES CHARGES DE REGULATION DE TEMPERATURE**
[72] SCHWABBAUER, LAURA, DE
[72] FORG, CHRISTIAN, DE
[72] PAETOW, MARIO, DE
[72] OBER, ANDREAS, DE
[72] BAMBACH, BJORN, DE
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-06-04
[86] 2023-01-25 (PCT/EP2023/051773)
[87] (WO2023/148059)
[30] EP (22154963.7) 2022-02-03

[21] **3,240,037**
[13] A1
[51] **Int.Cl. B01D 3/38 (2006.01) B01D 1/14 (2006.01) F02G 5/02 (2006.01)**
[25] EN
[54] **WATER, MINERALS AND COOLING GENERATION SYSTEM**
[54] **SYSTEME DE GENERATION D'EAU, DE MINERAUX ET DE REFROIDISSEMENT**
[72] JURANITCH, JAMES CHARLES, US
[71] XDI HOLDINGS, LLC, US
[85] 2024-06-04
[86] 2022-12-02 (PCT/US2022/051672)
[87] (WO2023/102194)
[30] US (63/286,010) 2021-12-04

[21] **3,240,038**
[13] A1
[51] **Int.Cl. A61P 1/04 (2006.01)**
[25] EN
[54] **A NON-SWALLOWED, ANTACID CHEWING GUM PRODUCT, A PROCESS FOR ITS PREPARATION AND USES THEREOF**
[54] **PRODUIT DE GOMME A MACHER ANTIACIDE NON AVALABLE, SON PROCEDE DE PREPARATION ET SES UTILISATIONS**
[72] RIZO, JOSE MIGUEL, ES
[72] VICEDO, LAURA, ES
[71] CHEMO RESEARCH, S.L., ES
[85] 2024-06-04
[86] 2022-12-15 (PCT/EP2022/086016)
[87] (WO2023/117653)
[30] EP (21383196.9) 2021-12-22

[21] **3,240,042**
[13] A1
[51] **Int.Cl. C04B 28/02 (2006.01)**
[25] EN
[54] **ADDITIVE OR SEALING COMPOSITION FOR CEMENTITOUS COMPOSITIONS, CEMENTITIOUS COMPOSITION, METHODS OF MANUFACTURING THE SAME, AND METHODS OF PREPARING A CEMENTITIOUS STRUCTURE AND TREATING A SURFACE THEREOF**
[54] **COMPOSITION D'ADDITIF OU D'ETANCHEITE POUR COMPOSITIONS A BASE DE CIMENT, COMPOSITION A BASE DE CIMENT, PROCEDES POUR LEUR FABRICATION, ET PROCEDES DE PREPARATION D'UNE STRUCTURE A BASE DE CIMENT ET DE TRAITEMENT D'UNE SURFACE CORRESPONDANTE**
[72] HOU, XIAOHUI, CN
[72] BAUCHKAR, SUNIL, CN
[72] HE, BEI, CN
[72] AYKAN, GULNIHAL, AE
[71] CONSTRUCTION RESEARCH & TECHNOLOGY GMBH, DE
[85] 2024-06-04
[86] 2022-12-21 (PCT/EP2022/087351)
[87] (WO2023/126283)
[30] CN (PCT/CN2021/142082) 2021-12-28

[21] **3,240,044**
[13] A1
[51] **Int.Cl. A61P 31/04 (2006.01) A61P 31/12 (2006.01)**
[25] EN
[54] **NITRIC OXIDE-RELEASING NASAL COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS NASALES LIBERANT DE L'OXYDE NITRIQUE ET PROCEDES D'UTILISATION ASSOCIES**
[72] RICCIO, DANIEL ALBERT, US
[72] GEER, CARRI BRODNAX, US
[72] PRIVETT, BENJAMIN JOSEPH MONROE, US
[72] WALTER, SHAYLYN ELIZABETH, US
[71] LNHC, INC., US
[85] 2024-06-04
[86] 2022-12-16 (PCT/US2022/081754)
[87] (WO2023/114971)
[30] US (63/290,928) 2021-12-17

[21] **3,240,045**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 9/01 (2021.01) C25B 9/05 (2021.01) C25B 9/19 (2021.01) C25B 9/60 (2021.01) C25B 9/77 (2021.01) C25B 1/26 (2006.01)**
[25] EN
[54] **METHOD FOR SEALING AN ELECTROLYSIS CELL AND SEALED ELECTROLYSIS CELL**
[54] **PROCEDE POUR L'ETANCHEIFICATION D'UNE CELLULE D'ELECTROLYSE ET CELLULE D'ELECTROLYSE ETANCHE**
[72] TOROS, PETER, DE
[72] AUSTENFELD, SEBASTIAN, DE
[71] THYSSENKRUPP NUCERA AG & CO. KGAA, DE
[85] 2024-06-04
[86] 2022-12-06 (PCT/EP2022/084645)
[87] (WO2023/104817)
[30] EP (21213033.0) 2021-12-08

[21] **3,240,046**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **DUAL MHC-TARGETING T CELL ENGAGER**
[54] **ACTIVATEUR DOUBLE DE LYMPHOCYTES T CIBLANT LE CMH**
[72] BORRAS, LEONARDO, CH
[72] JUNGMICHEL, STEPHANIE, CH
[72] MERTEN, HANNES, CH
[72] RICHLE, PHILIPP ROBERT, CH
[72] SCHEIFELE, FABIAN BERT, CH
[72] SOBIERAJ, ANNA MARIA, CH
[71] CDR-LIFE AG, CH
[85] 2024-06-04
[86] 2022-12-13 (PCT/EP2022/085689)
[87] (WO2023/110918)
[30] US (63/289,380) 2021-12-14
[30] US (63/317,256) 2022-03-07
[30] US (63/328,417) 2022-04-07

[21] **3,240,047**
[13] A1
[51] **Int.Cl. A47K 3/034 (2006.01)**
[25] EN
[54] **FUNCTIONAL SUPPORTER FOR BABY**
[54] **SUPPORT FONCTIONNEL POUR NOURRISSON**
[72] HWA, SEONG HYE, KR
[71] PROPREBEBE INC., KR
[85] 2024-06-04
[86] 2022-07-21 (PCT/KR2022/010662)
[87] (WO2023/106540)
[30] KR (10-2021-0172749) 2021-12-06

[21] **3,240,048**
[13] A1
[51] **Int.Cl. C09K 3/18 (2006.01)**
[25] EN
[54] **ECO-FRIENDLY LIQUID DEICING AGENT WITH SUPPRESSED CONCRETE BREAKAGE**
[54] **AGENT DE DEGIVRAGE LIQUIDE RESPECTUEUX DE L?ENVIRONNEMENT SUPPRIMANT LA RUPTURE DU BETON**
[72] YANG, SEUNGCHAN, KR
[71] STARS TECH CO.,LTD, KR
[85] 2024-06-04
[86] 2022-11-01 (PCT/KR2022/016925)
[87] (WO2023/132449)
[30] KR (10-2022-0001753) 2022-01-05

[21] **3,240,049**
[13] A1
[51] **Int.Cl. F04B 53/16 (2006.01) F16K 15/04 (2006.01)**
[25] EN
[54] **DIAPHRAGM PUMP WITH OFF-SET BALL CHECK VALVE AND ELBOW CAVITY**
[54] **POMPE A MEMBRANE COMPORTANT UN CLAPET ANTI-RETOUR A BILLE DECALE ET UNE CAVITE COUDEE**
[72] MORRIS, BRENT, US
[72] FRYE, MARK, US
[72] ROCKWELL, JIM, US
[71] WARREN RUPP, INC., US
[85] 2024-06-04
[86] 2023-02-22 (PCT/US2023/062977)
[87] (WO2023/164450)
[30] US (63/312,513) 2022-02-22
[30] US (63/331,980) 2022-04-18

[21] **3,240,051**
[13] A1
[51] **Int.Cl. C07D 403/14 (2006.01) C07D 471/10 (2006.01)**
[25] EN
[54] **DEGRADATION OF BRUTON'S TYROSINE KINASE (BTK) BY CONJUGATION OF BTK INHIBITORS WITH E3 LIGASE LIGAND AND METHODS OF USE**
[54] **DEGRADATION DE LA TYROSINE KINASE DE BRUTON (BTK) PAR CONJUGAISON D'INHIBITEURS DE BTK AVEC UN LIGAND DE LIGASE E3 ET PROCEDES D'UTILISATION**
[72] HUO, CHANGXIN, CN
[72] WANG, HEXIANG, CN
[72] QI, RUIPENG, CN
[72] WANG, ZHIWEI, CN
[72] LIU, HUAQING, CN
[71] BEIGENE SWITZERLAND GMBH, CH
[85] 2024-06-04
[86] 2022-12-30 (PCT/CN2022/143837)
[87] (WO2023/125908)
[30] CN (PCT/CN2021/142804) 2021-12-30

[21] **3,240,052**
[13] A1
[51] **Int.Cl. A01K 67/02 (2006.01) A01K 67/0275 (2024.01)**
[25] EN
[54] **TRANSGENIC PRISTELLA**
[54] **PRISTELLA TRANSGENIQUE**
[72] NASEVICIUS, AIDAS, US
[71] GLOFISH, LLC, US
[85] 2024-06-04
[86] 2022-11-21 (PCT/US2022/080233)
[87] (WO2023/107818)
[30] US (63/287,153) 2021-12-08

[21] **3,240,053**
[13] A1
[51] **Int.Cl. C07F 9/30 (2006.01) A01N 43/28 (2006.01) A01N 57/20 (2006.01) C07F 9/6506 (2006.01)**
[25] EN
[54] **SYNTHESIS OF GLUFOSINATE USING A HYDANTOINASE-BASED PROCESS**
[54] **SYNTHESE DE GLUFOSINATE A L'AIDE D'UN PROCEDE A BASE D'HYDANTOINASE**
[72] DITRICH, KLAUS, DE
[72] BREUER, MICHAEL, DE
[72] POTT, MORITZ STEFAN, DE
[72] ZIMMERMANN, GUNTHER, DE
[72] SEEMAYER, STEFAN, DE
[71] BASF SE, DE
[85] 2024-06-04
[86] 2022-12-12 (PCT/EP2022/085315)
[87] (WO2023/105080)
[30] EP (21213750.9) 2021-12-10

[21] **3,240,054**
[13] A1
[51] **Int.Cl. B02C 4/28 (2006.01)**
[25] EN
[54] **ROLLER MACHINE WITH A RADAR MONITORING UNIT, RADAR MONITORING UNIT FOR A I ROLLER MACHINE AND A METHOD HERETO**
[54] **MACHINE A ROULEAUX DOTEE D'UNE UNITE DE SURVEILLANCE RADAR, UNITE DE SURVEILLANCE RADAR POUR MACHINE A ROULEAUX ET PROCEDE ASSOCIE**
[72] WINKEL, REIK, DE
[72] KIRSCH, STEPHAN W., AU
[71] INDURAD GMBH, DE
[85] 2024-06-04
[86] 2021-12-07 (PCT/EP2021/084615)
[87] (WO2023/104294)

[21] **3,240,055**
[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01) H04W 12/08 (2021.01)**
[25] FR
[54] **METHOD FOR CONTROLLING ACCESS TO AN AREA TO BE SECURED, AND ASSOCIATED INITIALISATION METHOD**
[54] **PROCEDE DE CONTROLE D'ACCES A UNE ZONE A SECURISER ET PROCEDE D'INITIALISATION ASSOCIE**
[72] BABAY ROUIS, OUAJDI, FR
[72] LEDEDANTEC, GAEL, FR
[71] AKIDAIA, FR
[85] 2024-06-04
[86] 2022-11-30 (PCT/EP2022/083769)
[87] (WO2023/104598)
[30] FR (FR2113335) 2021-12-10

[21] **3,240,056**
[13] A1
[51] **Int.Cl. G06T 7/73 (2017.01)**
[25] EN
[54] **METHOD FOR DETERMINING THE POSITION AND/OR ORIENTATION OF A SOCKET OF AN ELECTRIC CAR FOR THE PURPOSE OF AUTOMATICALLY PLUGGING IN A CONNECTOR**
[54] **PROCEDE DE DETERMINATION DE LA POSITION ET/OU DE L?ORIENTATION D?UNE PRISE D?UNE VOITURE ELECTRIQUE A DES FINS DE BRANCHEMENT AUTOMATIQUE DANS UN CONNECTEUR**
[72] VAN DEURZEN, KANTER, NL
[72] HIJZEN, TOBY JOANNES, NL
[71] ROCSYS B.V., NL
[85] 2024-06-04
[86] 2022-12-30 (PCT/EP2022/088101)
[87] (WO2023/131577)
[30] NL (2030458) 2022-01-07

[21] **3,240,057**
[13] A1
[51] **Int.Cl. E21B 17/00 (2006.01) E21B 17/07 (2006.01)**
[25] EN
[54] **DAMPING DRILL STRING VIBRATIONS**
[54] **AMORTISSEMENT DE VIBRATIONS DE TRAIN DE TIGES DE FORAGE**
[72] CAYEUX, ERIC, NO
[71] NORCE INNOVATION AS, NO
[85] 2024-06-04
[86] 2022-12-05 (PCT/NO2022/050279)
[87] (WO2023/106926)
[30] NO (20211466) 2021-12-07

[21] **3,240,058**
[13] A1
[51] **Int.Cl. H01M 10/48 (2006.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **METHOD FOR MONITORING THE STATE OF HEALTH OF A BATTERY WITH EXPLOSIVE CELLS AND DEVICE IMPLEMENTING THIS METHOD**
[54] **PROCEDE DE SURVEILLANCE DE L'ETAT DE SANTE D'UNE BATTERIE A CELLULES EXPLOSIVES ET DISPOSITIF METTANT EN OUVRE CE PROCEDE**
[72] SCHMITTER, ROMAIN, FR
[71] SAFRAN ELECTRICAL & POWER, FR
[85] 2024-06-04
[86] 2022-12-01 (PCT/FR2022/052211)
[87] (WO2023/111416)
[30] FR (FR2113505) 2021-12-14

[21] **3,240,059**
[13] A1
[51] **Int.Cl. C07D 403/14 (2006.01) A61K 45/06 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 413/04 (2006.01) C07D 417/14 (2006.01)**
[25] EN
[54] **TREATMENT OF CANCER WITH AN FGFR KINASE INHIBITOR**
[54] **TRAITEMENT DU CANCER AVEC UN INHIBITEUR DE LA KINASE FGFR**
[72] FRANOVIC, ALEKSANDRA, US
[72] VASSAR, ANGIE, US
[72] MILLER, NICHOL, US
[72] KOBAYASHI, KEN, US
[72] WILLIAMS, RICHARD THOMAS, US
[72] TYHONAS, JOHN, US
[72] KANIA, ROBERT, US
[72] COX, JASON M., US
[72] TIMPLE, NOELITO, US
[72] MARTIN, ERIC S., US
[72] MURPHY, ERIC A., US
[71] KINNATE BIOPHARMA INC., US
[85] 2024-06-04
[86] 2022-12-07 (PCT/US2022/081059)
[87] (WO2023/107979)
[30] US (63/287,456) 2021-12-08

[21] **3,240,060**
[13] A1
[51] **Int.Cl. A47J 37/06 (2006.01) A47J 37/10 (2006.01) H05B 6/06 (2006.01) H05B 6/12 (2006.01)**
[25] EN
[54] **DOUBLE-SIDED INDUCTION RANGE SYSTEM**
[54]
[72] LEE, MYUNG OCK, KR
[72] KIM, SANG WOO, KR
[71] PEACEWORLD CO., LTD, KR
[85] 2024-06-04
[86] 2022-06-07 (PCT/KR2022/007965)
[87] (WO2023/106521)
[30] KR (10-2021-0176245) 2021-12-10

[21] **3,240,061**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **METHOD FOR QUANTIFYING MYOCARDIAL BLOOD FLOW FROM A NUCLEAR MEDICINE TOMOGRAPHIC IMAGE**
[54] **PROCEDE DE QUANTIFICATION D'UN DEBIT SANGUIN MYOCARDIQUE A PARTIR D'UNE IMAGE TOMOGRAPHIQUE EN MEDECINE NUCLEAIRE**
[72] NAMIAS, MAURO, AR
[72] PALAU SAN PEDRO, ALEY, AR
[72] JOSE PENA AFONSO DE ABRUNHOSA, ANTERO, PT
[71] FUNDACION CENTRO DIAGNOSTICO NUCLEAR, AR
[71] COMISION NACIONAL DE ENERGIA ATOMICA, AR
[71] UNIVERSIDADE DE COIMBRA, PT
[85] 2024-06-04
[86] 2022-12-14 (PCT/PT2022/050033)
[87] (WO2023/113630)
[30] AR (20210103514) 2021-12-15

[21] **3,240,062**
[13] A1
[51] **Int.Cl. C25C 3/02 (2006.01) B01D 17/06 (2006.01) C25C 7/06 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR PRODUCING LI METAL**
[54] **APPAREIL ET PROCEDE DE PRODUCTION DE LITHIUM METALLIQUE**
[72] AMOUZEGAR, KAMYAB, CA
[72] ALLARD, FRANCOIS, CA
[72] CHAMPAGNE, PASCAL, CA
[72] BOUCHARD, PATRICK, CA
[72] LEBLANC, DOMINIC, CA
[72] TOUGAS, BERNARD, CA
[72] TURCOTTE, NANCY, CA
[71] HYDRO-QUEBEC, CA
[85] 2024-06-04
[86] 2023-01-12 (PCT/CA2023/050030)
[87] (WO2023/133636)
[30] US (63/299,114) 2022-01-13

[21] **3,240,063**
[13] A1
[51] **Int.Cl. D21H 11/14 (2006.01) D21H 17/34 (2006.01) D21H 21/24 (2006.01)**
[25] EN
[54] **PAPER WEB AND METHOD FOR FORMING A PAPER WEB**
[54] **BANDE DE PAPIER ET PROCEDE DE FORMATION D'UNE BANDE DE PAPIER**
[72] BERGLUND, LARS GORAN, SE
[72] FIFIELSKI, DAWID, PL
[72] MARCIN, GAJOS, PL
[72] GOESS, PAULUS, AT
[72] SCHWAIGER, ELISABETH, AT
[71] MONDI AG, AT
[85] 2024-06-04
[86] 2022-11-30 (PCT/AT2022/060419)
[87] (WO2023/115079)
[30] AT (A 51043/2021) 2021-12-23

[21] **3,240,064**
[13] A1
[51] **Int.Cl. C07F 9/30 (2006.01) A01N 43/28 (2006.01) A01N 57/20 (2006.01) C07F 9/6506 (2006.01)**
[25] EN
[54] **ENZYMATIC DECARBAMOYLATION OF GLUFOSINATE DERIVATIVES**
[54] **DECARBAMOYLATION ENZYMATIQUE DE DERIVES DE GLUFOSINATE**
[72] ZIMMERMANN, GUNTHER, DE
[72] POTT, MORITZ STEFAN, DE
[72] BREUER, MICHAEL, DE
[72] DITRICH, KLAUS, DE
[72] SEEMAYER, STEFAN, DE
[71] BASF SE, DE
[85] 2024-06-04
[86] 2022-12-12 (PCT/EP2022/085314)
[87] (WO2023/105079)
[30] EP (21213752.5) 2021-12-10

[21] **3,240,065**
[13] A1
[51] **Int.Cl. A01K 67/027 (2024.01) C12N 15/85 (2006.01)**
[25] EN
[54] **TRANSGENIC PURPLE BETTA AND METHODS OF MAKING THE SAME**
[54] **COMBATTANT VIOLET TRANSGENIQUE ET SES PROCEDES DE FABRICATION**
[72] NASEVICIUS, AIDAS, US
[71] GLOFISH, LLC, US
[85] 2024-06-04
[86] 2022-11-21 (PCT/US2022/080223)
[87] (WO2023/107817)
[30] US (63/287,799) 2021-12-09

[21] **3,240,066**
[13] A1
[51] **Int.Cl. C12M 1/34 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR STERILE AND NONINVASIVE MEASUREMENTS OF SUBSTANCES IN BIOREACTORS AND OTHER STERILE ENVIRONMENTS**
[54] **PROCEDE ET APPAREIL POUR LA MESURE STERILE ET NON INVASIVE DE SUBSTANCES DANS DES BIOREACTEURS ET AUTRES ENVIRONNEMENTS STERILES**
[72] RAO, GOVIND, US
[72] RAHMATNEJAD, VIDA, US
[72] GE, XUDONG, US
[72] KUMAR, VIKASH, US
[72] TOLOSA, MICHAEL, US
[71] UNIVERSITY OF MARYLAND BALTIMORE COUNTY, US
[85] 2024-06-04
[86] 2022-12-05 (PCT/US2022/080899)
[87] (WO2023/107879)
[30] US (63/286,219) 2021-12-06
[30] US (63/287,138) 2021-12-08
[30] US (63/347,739) 2022-06-01

[21] **3,240,067**
[13] A1
[51] **Int.Cl. F04D 29/26 (2006.01) F04D 25/08 (2006.01) F04D 29/28 (2006.01) F04D 29/30 (2006.01) F04D 29/40 (2006.01) F04D 29/44 (2006.01) F04D 29/66 (2006.01)**
[25] EN
[54] **COMBINED BLADE DEVICE AND COMBINED AIR OUTLET DEVICE**
[54] **DISPOSITIF A PALE COMBINEE ET DISPOSITIF DE SORTIE D'AIR COMBINE**
[72] ZHANG, PING, CN
[72] HU, SHANXIAN, CN
[72] SUN, XINGLIN, CN
[72] ZHOU, HUIZHU, CN
[72] SUN, YELIN, CN
[72] LUO, LANYING, CN
[71] XUXIN TECHNOLOGY (SHENZHEN) GROUP CO., LTD, CN
[85] 2024-06-04
[86] 2022-11-29 (PCT/CN2022/134892)
[87] (WO2023/124700)
[30] CN (202111639861.0) 2021-12-29

[21] **3,240,068**
[13] A1
[51] **Int.Cl. E06C 1/52 (2006.01) B63B 27/14 (2006.01) E06C 1/38 (2006.01) E06C 1/58 (2006.01) E06C 7/50 (2006.01) E06C 9/14 (2006.01)**
[25] FR
[54] **LADDER COMPRISING AT LEAST ONE RAIL AND A PLURALITY OF RUNGS**
[54] **ECHELLE COMPORTANT AU MOINS UN MONTANT ET UNE PLURALITE D'ECHELONS**
[72] ZINAI, AMINE EL BOUDALI AISSA, CH
[71] ZINAI, AMINE EL BOUDALI AISSA, CH
[85] 2024-06-04
[86] 2022-12-08 (PCT/EP2022/084988)
[87] (WO2023/104968)
[30] EP (21213839.0) 2021-12-10

[21] **3,240,069**
[13] A1
[51] **Int.Cl. B44C 1/20 (2006.01) B44C 5/04 (2006.01) B44F 9/02 (2006.01) B44F 9/04 (2006.01)**
[25] EN
[54] **A DECORATIVE SHEET AND METHOD FOR MANUFACTURING**
[54] **FEUILLE DECORATIVE ET SON PROCEDE DE FABRICATION**
[72] SYMKENS, STEFAN, BE
[71] CHIYODA EUROPA, BE
[85] 2024-06-04
[86] 2022-12-02 (PCT/EP2022/084187)
[87] (WO2023/104653)
[30] EP (21212520.7) 2021-12-06

[21] **3,240,070**
[13] A1
[51] **Int.Cl. A61K 47/10 (2017.01) A61P 27/02 (2006.01)**
[25] EN
[54] **METHOD AND COMPOSITION FOR TREATING INFECTIOUS CONJUNCTIVITIS**
[54] **METHODE ET COMPOSITION POUR TRAITER LA CONJONCTIVITE INFECTIEUSE**
[72] SAADEH, DENNIS, US
[71] HARROW IP, LLC, US
[85] 2024-06-04
[86] 2022-12-13 (PCT/US2022/052728)
[87] (WO2023/114222)
[30] US (17/550,802) 2021-12-14

[21] **3,240,071**
[13] A1
[51] **Int.Cl. C07D 239/94 (2006.01) C07D 401/12 (2006.01) C07D 403/12 (2006.01) C07D 405/12 (2006.01) C07D 413/12 (2006.01)**
[25] EN
[54] **HETEROCYCLIC COMPOUNDS AS KIT KINASE INHIBITORS**
[54] **COMPOSES HETEROCYCLIQUES EN TANT QU'INHIBITEURS DE LA KINASE KIT**
[72] AHN, YU MI, US
[72] CALDWELL, TIMOTHY, US
[72] FLYNN, DANIEL L., US
[72] LE BOURDONNEC, BERTRAND, US
[71] DECIPHERA PHARMACEUTICALS, LLC, US
[85] 2024-06-04
[86] 2022-12-02 (PCT/US2022/080828)
[87] (WO2023/107863)
[30] US (63/287,857) 2021-12-09
[30] US (63/329,674) 2022-04-11

[21] **3,240,072**
[13] A1
[51] **Int.Cl. H02K 1/276 (2022.01)**
[25] EN
[54] **ROTARY ELECTRIC MACHINE**
[54] **MACHINE ELECTRIQUE ROTATIVE**
[72] HONMA, REI, JP
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-06-04
[86] 2023-03-20 (PCT/JP2023/010902)
[87] (WO2023/189824)
[30] JP (2022-053600) 2022-03-29

[21] **3,240,073**
[13] A1
[51] **Int.Cl. C07F 9/30 (2006.01) A01N 43/28 (2006.01) A01N 57/20 (2006.01) C07F 9/6506 (2006.01)**
[25] EN
[54] **HERBICIDAL ACTIVITY OF ALKYL PHOSPHINATES**
[54] **ACTIVITE HERBICIDE DE PHOSPHINATES D'ALKYLE**
[72] DITRICH, KLAUS, DE
[72] BREUER, MICHAEL, DE
[72] POTT, MORITZ STEFAN, DE
[72] ZIMMERMANN, GUNTHER, DE
[71] BASF SE, DE
[85] 2024-06-04
[86] 2022-12-12 (PCT/EP2022/085312)
[87] (WO2023/105078)
[30] EP (21213751.7) 2021-12-10

[21] **3,240,075**
[13] A1
[51] **Int.Cl. A61C 19/06 (2006.01) H05H 1/26 (2006.01)**
[25] EN
[54] **PLASMA IRRADIATION DEVICE**
[54] **DISPOSITIF D'EMISSION DE PLASMA**
[72] NAKANO, YOSHIHIRO, JP
[72] MATSUMOTO, YUJI, JP
[72] SUGIYAMA, YUMI, JP
[72] SONE, SHINICHIRO, JP
[72] NOMATA, IKUMI, JP
[72] ABE, YASUHIKO, JP
[71] NITERRA CO., LTD., JP
[85] 2024-06-04
[86] 2022-12-02 (PCT/JP2022/044535)
[87] (WO2024/084718)
[30] JP (2022-166222) 2022-10-17

[21] **3,240,076**
[13] A1
[51] **Int.Cl. C21B 3/04 (2006.01) C22B 5/10 (2006.01)**
[25] EN
[54] **WASTEWATER TREATMENT PROCESS**
[54] **PROCEDE DE TRAITEMENT D'EAUX USEES**
[72] BERGGREN, SCOTT LEE, US
[72] KENNEDY, PAUL STANTON, US
[72] MISHRA, BRAJENDRA, US
[72] TANVAR, HIMANSHU, US
[71] GRON METALLIC GROUP, INC., US
[85] 2024-06-04
[86] 2022-12-06 (PCT/US2022/051941)
[87] (WO2023/107436)
[30] US (63/286,416) 2021-12-06

[21] **3,240,077**
[13] A1
[51] **Int.Cl. C07D 403/02 (2006.01)**
[25] EN
[54] **BCL-2 INHIBITORS**
[54] **INHIBITEURS DE BCL-2**
[72] KYSIL, VOLODYMYR, US
[72] PARCHINSKY, VLADISLAV ZENONOVICH, RU
[72] PUSHECHNIKOV, ALEXEI, US
[72] IVACHTCHENKO, ALEXANDRE VASILIEVICH, US
[72] ABAGYAN, RUBEN, US
[72] SAVCHUK, NIKOLAY, US
[71] EIL THERAPEUTICS, INC., US
[85] 2024-06-04
[86] 2022-12-27 (PCT/US2022/054091)
[87] (WO2023/129553)
[30] US (63/294,646) 2021-12-29
[30] US (63/415,203) 2022-10-11

[21] **3,240,078**
[13] A1
[51] **Int.Cl. H01M 10/54 (2006.01) C22B 1/00 (2006.01) C22B 7/00 (2006.01)**
[25] EN
[54] **STORAGE BATTERY RECYCLING METHOD**
[54] **PROCEDE DE RECYCLAGE DE BATTERIE DE STOCKAGE**
[72] OZAKI, RYOICHI, JP
[72] MORIYAMA, TOMOHIRO, JP
[72] SAKURAI, YUTA, JP
[72] TADA, KOSHI, JP
[72] YOSHIDA, TAKUJI, JP
[72] TERAKADO, SHINGO, JP
[72] UCHIDA, KAZUHITO, JP
[72] HEMMI, MASARU, JP
[71] JERA CO., INC., JP
[85] 2024-06-04
[86] 2022-12-09 (PCT/JP2022/045559)
[87] (WO2023/106417)
[30] JP (2021-201050) 2021-12-10

[21] **3,240,079**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **CONDITIONALLY ACTIVATED ANTIGEN BINDING POLYPEPTIDE COMPLEXES AND METHODS OF USE THEREOF**
[54] **COMPLEXES POLYPEPTIDIQUES DE LIAISON A L'ANTIGENE ACTIVES DE MANIERE CONDITIONNELLE ET LEURS PROCEDES D'UTILISATION**
[72] XU, LING, US
[72] WU, LAN, US
[72] SEUNG, EDWARD, US
[72] YANG, ZHI-YONG, US
[72] NABEL, GARY J., US
[72] ZERHOUNI, ELIAS, US
[72] WEI, RONNIE R., US
[72] CHEN, HAO, US
[72] GRECI, MARK, US
[72] JONES, NICHOLAS, US
[71] MODEX THERAPEUTICS, INC., US
[85] 2024-06-04
[86] 2022-12-21 (PCT/US2022/082131)
[87] (WO2023/122659)
[30] US (63/292,382) 2021-12-21

[21] **3,240,080**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01)**
[25] EN
[54] **JUNCTOPHILIN-2 (JPH2) GENE THERAPY USING AAV VECTOR**
[54] **THERAPIE GENIQUE POUR JUNCTOPHILINE-2 (JPH2) AU MOYEN D'UN VECTEUR VAA**
[72] HERZOG, CHRISTOPHER DEAN, US
[72] SACRAMENTO, CHESTER BITTENCORT, US
[72] RICKS, DAVID, US
[72] PRABHAKAR, RAJ, US
[71] SPACECRAFT SEVEN, LLC, US
[85] 2024-06-04
[86] 2022-12-07 (PCT/US2022/081122)
[87] (WO2023/108029)
[30] US (63/287,393) 2021-12-08

[21] **3,240,081**
[13] A1
[51] **Int.Cl. A61K 35/17 (2015.01) A61P 35/02 (2006.01) C07K 14/725 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **TREATMENT OF B CELL MALIGNANCIES**
[54] **TRAITEMENT DE MALIGNITES DES LYMPHOCYTES B**
[72] AFTAB, BLAKE, US
[72] GALMI, FRANCESCO, US
[72] LAI, ROSE KAMYEE, US
[72] MALLER, ORI, US
[71] ADICET THERAPEUTICS, INC., US
[85] 2024-06-04
[86] 2022-12-05 (PCT/US2022/051848)
[87] (WO2023/102264)
[30] US (63/286,086) 2021-12-05

[21] **3,240,082**
[13] A1
[51] **Int.Cl. E21B 10/64 (2006.01) E21B 17/046 (2006.01) E21B 21/10 (2006.01) E21B 23/12 (2006.01) E21B 25/02 (2006.01) E21B 34/14 (2006.01)**
[25] EN
[54] **DEPLOYMENT TOOL AND METHOD**
[54] **OUTIL DE DEPLOIEMENT ET PROCEDE**
[72] BEACH, ANDREW PHILLIP, AU
[72] HOLLIDAY, MATT, AU
[71] IMDEX TECHNOLOGIES PTY LTD, AU
[85] 2024-06-04
[86] 2022-12-14 (PCT/IB2022/062174)
[87] (WO2023/111870)
[30] AU (2021904077) 2021-12-15

[21] **3,240,098**
[13] A1
[51] **Int.Cl. E04C 3/08 (2006.01) E04C 3/04 (2006.01)**
[25] EN
[54] **BEAM**
[54] **POUTRE**
[72] WILKMAN, LAURI, FI
[72] HALONEN, LAURI, FI
[71] MULTIBEAM FINLAND OY, FI
[85] 2024-06-05
[86] 2022-12-08 (PCT/FI2022/050819)
[87] (WO2023/105122)
[30] FI (20216256) 2021-12-08

[21] **3,240,106**
[13] A1
[51] **Int.Cl. C08G 65/28 (2006.01) C08G 18/48 (2006.01) C08G 65/30 (2006.01)**
[25] EN
[54] **A PROCESS FOR OBTAINING A POLYETHER POLYOL WITH A BIMODAL MOLECULAR WEIGHT DISTRIBUTION, FOR THE PRODUCTION OF FLEXIBLE POLYURETHANE FOAMS**
[54] **PROCESSUS D'OBTENTION D'UN POLYOL DE POLYETHER AVEC UNE DISTRIBUTION BIMODALE DE POIDS MOLECULAIRE, POUR LA PRODUCTION DE MOUSSES DE POLYURETHANE SOUPLES**
[72] WACEK, JERZY, PL
[72] WOJDYLA, HENRYK, PL
[71] PCC ROKITA SPOLKA AKCYJNA, PL
[85] 2024-06-05
[86] 2023-02-14 (PCT/IB2023/051318)
[87] (WO2023/156898)
[30] EP (22461504.7) 2022-02-18

[21] **3,240,112**
[13] A1
[51] **Int.Cl. F42C 11/04 (2006.01) F42B 12/34 (2006.01) F42B 12/46 (2006.01) F42B 30/02 (2006.01) F42C 17/04 (2006.01) F42C 19/12 (2006.01)**
[25] EN
[54] **PROJECTILE CONSTRUCTION, LAUNCHER, AND LAUNCHER ACCESSORY**
[54] **STRUCTURE DE PROJECTILE, LANCEUR, ET ACCESSOIRE DE LANCEUR**
[72] PEDICINI, CHRISTOPHER, US
[72] PEDICINI, JOSHUA, US
[72] HUNER, COLE, US
[71] NL ENTERPRISES, LLC, US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/052318)
[87] (WO2024/030146)
[30] US (63/287,265) 2021-12-08
[30] US (18/078,028) 2022-12-08

[21] **3,240,113**
[13] A1
[51] **Int.Cl. A61K 35/42 (2015.01) C12N 5/071 (2010.01)**
[25] EN
[54] **MULTIPOTENT LUNG PROGENITOR CELLS FOR LUNG REGENERATION**
[54] **CELLULES PROGENITRICES PULMONAIRES MULTIPOTENTES POUR LA REGENERATION PULMONAIRE**
[72] REISNER, YAIR, US
[72] ROSEN, CHAVA, IL
[72] SHEZEN, ELIAS, IL
[72] ORGAD, RAN, IL
[72] MILMAN KRENTSIS, IRIT, IL
[72] SU, XIAOHUA, US
[72] YADAV, RAJ KUMAR, US
[72] ZHENG, YANGXI, US
[71] YEDA RESEARCH AND DEVELOPMENT CO. LTD., IL
[71] BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2024-06-05
[86] 2022-12-08 (PCT/IL2022/051302)
[87] (WO2023/105526)
[30] US (63/287,147) 2021-12-08

[21] **3,240,114**
[13] A1
[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **BEVERAGE POD SYSTEM WITH IMPROVED SEAL**
[54] **SYSTEME DE DOSETTE DE BOISSON A JOINT D'ETANCHEITE AMELIORE**
[72] VUAGNIAUX, DIDIER, CH
[72] KOLLEP, ALEXANDRE, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-05
[86] 2022-12-19 (PCT/EP2022/086674)
[87] (WO2023/117918)
[30] EP (21216610.2) 2021-12-21

[21] **3,240,115**
[13] A1
[51] **Int.Cl. E06B 9/303 (2006.01)**
[25] EN
[54] **COVERING WITH LIFT STRAP-BASED LEVELING SHIMS AND RELATED METHODS**
[54] **REVETEMENT AVEC CALES DE NIVELLEMENT A BASE DE SANGLE DE LEVAGE ET PROCEDES ASSOCIES**
[72] SCHULMAN, MICHAEL JAY, US
[71] LEVOLOR, INC., US
[85] 2024-06-05
[86] 2022-12-07 (PCT/US2022/052090)
[87] (WO2023/107535)
[30] US (63/287,253) 2021-12-08

[21] **3,240,117**
[13] A1
[51] **Int.Cl. F16H 55/12 (2006.01) B65G 23/06 (2006.01) F16H 55/30 (2006.01) F16H 55/46 (2006.01)**
[25] EN
[54] **A SPROCKET ASSEMBLY, AND A METHOD FOR ASSEMBLING OR REPLACING SAME**
[54] **ENSEMBLE PIGNON ET SON PROCEDE D'ASSEMBLAGE OU DE REMPLACEMENT**
[72] MALMIN, ARNE, NO
[72] HAALAND, ARNE THOMAS, NO
[71] CUBILITY AS, NO
[85] 2024-06-05
[86] 2022-09-16 (PCT/NO2022/050216)
[87] (WO2023/121469)
[30] NO (20211571) 2021-12-22

[21] **3,240,119**
[13] A1
[51] **Int.Cl. C25B 1/04 (2021.01) C25B 9/70 (2021.01) C25B 9/75 (2021.01) C25B 9/77 (2021.01)**
[25] EN
[54] **A METHOD FOR ASSEMBLING AND/OR DISASSEMBLING ALKALINE ELECTROLYZER UNITS OF A HYDROGEN PRODUCING PLANT**
[54] **PROCEDE DE MONTAGE ET/OU DE DEMONTAGE D'UNITES D'ELECTROLYSE ALCALINE D'UNE INSTALLATION DE PRODUCTION D'HYDROGENE**
[72] THORBURN, STEFAN, SE
[71] ABB SCHWEIZ AG, CH
[85] 2024-06-05
[86] 2022-12-07 (PCT/EP2022/084722)
[87] (WO2023/110565)
[30] EP (21214977.7) 2021-12-16

[21] **3,240,120**
[13] A1
[51] **Int.Cl. H01H 35/34 (2006.01)**
[25] EN
[54] **PRESSURE THRESHOLD DETECTOR FOR MEDICAL INJECTOR**
[54] **DETECTEUR DE SEUIL DE PRESSION POUR INJECTEUR MEDICAL**
[72] COLEMAN, DAVID JAMES, IE
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2024-06-05
[86] 2022-12-13 (PCT/US2022/052655)
[87] (WO2023/114179)
[30] US (63/288,967) 2021-12-13

[21] **3,240,121**
[13] A1
[51] **Int.Cl. G06V 20/69 (2022.01)**
[25] EN
[54] **IMPROVED GUIDE CLOSING MECHANISM FOR FIRE SHUTTERS**
[54] **MECANISME DE FERMETURE DE GUIDE AMELIORE POUR VOLETS COUPE-FEU**
[72] FERNANDO, BRIAN RISHI KACHCHAKADUGE, US
[72] REBARCHAK, CHRISTOPHER JOHN, US
[72] BULLEN, JOHN ELIAS, US
[71] CORNELLCOOKSON, LLC, US
[85] 2024-06-05
[86] 2022-11-29 (PCT/US2022/051130)
[87] (WO2023/107288)
[30] US (17/545,570) 2021-12-08

[21] **3,240,123**
[13] A1
[51] **Int.Cl. G16B 15/30 (2019.01) A61K 31/415 (2006.01) A61P 35/00 (2006.01) C12N 9/12 (2006.01)**
[25] EN
[54] **CRYSTAL STRUCTURE OF BTK PROTEIN AND BINDING POCKETS THEREOF**
[54] **STRUCTURE CRISTALLINE DE PROTEINE BTK ET SES POCHES DE LIAISON**
[72] ALEXANDER, RICHARD S., US
[72] MILLIGAN, CYNTHIA, US
[72] TICHENOR, MARK S., US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-06-05
[86] 2022-12-07 (PCT/EP2022/084855)
[87] (WO2023/104916)
[30] US (63/287,228) 2021-12-08

[21] **3,240,125**
[13] A1
[25] EN
[54] **ROBOTIC SOLUTION TO PENETRATE AND MANEUVER THROUGH SLUDGE AND SEDIMENT**
[54] **SOLUTION ROBOTISEE POUR TRAVERSER LA BOUE ET LES SEDIMENTS ET MAN?UVRER DANS CES DERNIERS**
[72] BRIGGS, FRED MELVELLE, IV, US
[72] WERNICK, BRANDON POLLETT, US
[71] APPLIED IMPACT ROBOTICS, INC, US
[85] 2024-06-05
[86] 2022-05-10 (PCT/US2022/028560)
[87] (WO2023/107147)
[30] US (17/543,344) 2021-12-06

[21] **3,240,127**
[13] A1
[51] **Int.Cl. A61K 9/51 (2006.01)**
[25] EN
[54] **RNA FORMULATIONS AND LIPIDS**
[54] **FORMULATIONS D'ARN ET LIPIDES**
[72] WANG, ZIHAO, CN
[72] LIU, YUANQING, CN
[72] CHEN, YANNI, CN
[72] HU, QIZHI, CN
[72] GUO, ZHIJUN, CN
[72] WU, HONGYUE, CN
[71] IMMORNA (HANGZHOU) BIOTECHNOLOGY CO., LTD., CN
[85] 2024-06-05
[86] 2022-12-07 (PCT/CN2022/137326)
[87] (WO2023/104114)
[30] CN (PCT/CN2021/136110) 2021-12-07
[30] CN (PCT/CN2022/118152) 2022-09-09

[21] **3,240,128**
[13] A1
[51] **Int.Cl. A63F 13/215 (2014.01) A63F 13/213 (2014.01) A63F 13/655 (2014.01)**
[25] EN
[54] **FACIAL ACTIVITY DETECTION FOR VIRTUAL REALITY SYSTEMS AND METHODS**
[54] **DETECTION D'ACTIVITE FACIALE POUR SYSTEMES ET PROCEDES DE REALITE VIRTUELLE**
[72] JORDAN, ROBERT MICHAEL, US
[72] TRAYNOR, MARK JAMES, US
[72] GOERGEN, PATRICK JOHN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2024-06-05
[86] 2023-01-04 (PCT/US2023/010129)
[87] (WO2023/133149)
[30] US (63/296,363) 2022-01-04
[30] US (18/092,728) 2023-01-03

[21] **3,240,129**
[13] A1
[51] **Int.Cl. E06B 9/68 (2006.01)**
[25] EN
[54] **CONTROLLING A POSITION OF A COVERING MATERIAL OF A MOTORIZED WINDOW TREATMENT**
[54] **COMMANDE D'UNE POSITION D'UN ELEMENT DE RECOUVREMENT D'UN HABILLAGE DE FENETRE MOTORISE**
[72] BURLEW, JACKSON, US
[72] THOMPSON, ROBERT JESSE, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[85] 2024-06-05
[86] 2022-12-17 (PCT/US2022/053270)
[87] (WO2023/114526)
[30] US (63/290,934) 2021-12-17
[30] US (63/299,662) 2022-01-14

[21] **3,240,130**
[13] A1
[51] **Int.Cl. C04B 41/87 (2006.01) C04B 41/89 (2006.01)**
[25] FR
[54] **CONTAINER MADE OF A COATED CERAMIC MATRIX COMPOSITE**
[54] **CONTENEUR EN UN COMPOSITE A MATRICE CERAMIQUE REVETU**
[72] VILLERMAUX, FRANCELINE MARGUERITE LOUISE, FR
[72] IONICA BOUSQUET, COSTANA MIHAELA, FR
[72] NONNET, EMMANUEL, FR
[71] SAINT-GOBAIN CENTRE DE RECHERCHE ET D'ETUDES EUROPEEN, FR
[85] 2024-06-05
[86] 2022-12-23 (PCT/FR2022/052493)
[87] (WO2023/118765)
[30] FR (FR2114401) 2021-12-23

[21] **3,240,131**
[13] A1
[51] **Int.Cl. H01M 4/139 (2010.01) C04B 35/117 (2006.01) C04B 35/443 (2006.01) F27B 14/10 (2006.01)**
[25] FR
[54] **CONTAINER COATED WITH AN MGAL2O4 SPINEL COATING AND CORUNDUM**
[54] **CONTENEUR REVETU PAR UN REVETEMENT SPINELLE MGAL2O4 ET CORINDON**
[72] BRULIN, JEROME, FR
[72] IONICA BOUSQUET, COSTANA MIHAELA, FR
[72] COEURET, XAVIER, FR
[72] VINCENT, ADRIEN, FR
[71] SAINT-GOBAIN CENTRE DE RECHERCHE ET D'ETUDES EUROPEEN, FR
[85] 2024-06-05
[86] 2022-12-23 (PCT/FR2022/052494)
[87] (WO2023/118766)
[30] FR (FR2114402) 2021-12-23

[21] **3,240,132**
[13] A1
[51] **Int.Cl. H01M 4/139 (2010.01) C23C 4/11 (2016.01) C23C 4/134 (2016.01) C04B 35/443 (2006.01) C04B 35/505 (2006.01) F27B 14/10 (2006.01)**
[25] FR
[54] **SUPPORT FOR FIRING ALKALI METAL POWDER WITH CONTROLLED-POROSITY COATING**
[54] **SUPPORT DE CUISSON DE POUDRE ALCALINE AVEC REVETEMENT DE POROSITE CONTROLEE**
[72] SAAD, HASSAN, FR
[72] ALLIMANT, ALAIN, FR
[72] BRULIN, JEROME, US
[71] SAINT-GOBAIN CENTRE DE RECHERCHE ET D'ETUDES EUROPEEN, FR
[85] 2024-06-05
[86] 2022-12-23 (PCT/FR2022/052495)
[87] (WO2023/118767)
[30] FR (FR2114403) 2021-12-23

[21] **3,240,133**
[13] A1
[25] EN
[54] **SYNTHETIC TRANSFER RNA WITH MODIFIED NUCLEOTIDES**
[54] **ARN DE TRANSFERT SYNTHETIQUE A NUCLEOTIDES MODIFIES**
[72] IGNATOVA, ZOYA, DE
[72] ALBERS, SUKI, DE
[71] UNIVERSITAT HAMBURG, DE
[85] 2024-06-05
[86] 2022-12-22 (PCT/EP2022/087512)
[87] (WO2023/118456)
[30] EP (21216959.3) 2021-12-22

[21] **3,240,134**
[13] A1
[51] **Int.Cl. C08K 3/013 (2018.01) C08K 5/09 (2006.01) C08K 5/151 (2006.01) C08K 5/1545 (2006.01) C08L 101/16 (2006.01)**
[25] EN
[54] **THERMOPLASTIC COMPOSITION**
[54] **COMPOSITION THERMOPLASTIQUE**
[72] MORI, RYOHEI, JP
[71] FUJI PIGMENT CO., LTD., JP
[71] GS ALLIANCE CO., LTD., JP
[85] 2024-06-05
[86] 2023-01-31 (PCT/JP2023/002990)
[87] (WO2023/145958)
[30] JP (2022-013398) 2022-01-31
[30] JP (2022-130009) 2022-08-17

[21] **3,240,137**
[13] A1
[51] **Int.Cl. A63G 31/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VISUAL SCENE MONITORING**
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE SCENE VISUELLE**
[72] JEROMIN, AARON CHANDLER, US
[72] KRAUTHAMER, AKIVA MEIR, US
[72] SCHEINBERG, JEREMY SETH, US
[72] HERTZLER, ELAM KEVIN, US
[71] UNIVERSAL CITY STUDIOS LLC, US
[85] 2024-06-05
[86] 2023-01-04 (PCT/US2023/010131)
[87] (WO2023/133151)
[30] US (63/296,733) 2022-01-05
[30] US (18/090,932) 2022-12-29

[21] **3,240,138**
[13] A1
[51] **Int.Cl. A61P 25/28 (2006.01) C07K 7/06 (2006.01)**
[25] EN
[54] **NAP FOR SEX-SPECIFIC TREATMENT OF DISEASES**
[54] **NAP POUR LE TRAITEMENT DES MALADIES EN FONCTION DU SEXE**
[72] GOZES, ILLANA, IL
[72] SHAPIRA, GUY, IL
[72] LOBYNTSEVA, ALEXANDRA, IL
[72] KARMON, GIDON, IL
[72] SHOMRON, NOAM, IL
[71] RAMOT AT TEL-AVIV UNIVERSITY LTD., IL
[85] 2024-06-05
[86] 2022-12-13 (PCT/IL2022/051314)
[87] (WO2023/112025)
[30] US (63/289,174) 2021-12-14
[30] US (63/306,146) 2022-02-03

[21] **3,240,139**
[13] A1
[51] **Int.Cl. B01J 20/26 (2006.01)**
[25] EN
[54] **FUNCTIONALIZED CYCLODEXTRIN MONOMER AND POLYMER FOR WATER REMEDIATION**
[54] **MONOMERE ET POLYMERE DE CYCLODEXTRINE FONCTIONNALISEE POUR LA REMEDIATION DE L'EAU**
[72] DICHTEL, WILLIAM ROBERT, US
[72] HELBLING, DAMIAN E., US
[72] WANG, RI, US
[72] KLEMES, MAX JUSTIN, US
[71] NORTHWESTERN UNIVERSITY, US
[71] CORNELL UNIVERSITY, US
[85] 2024-06-05
[86] 2022-12-06 (PCT/US2022/081043)
[87] (WO2023/107968)
[30] US (63/265,022) 2021-12-06

[21] **3,240,140**
[13] A1
[51] **Int.Cl. A61P 19/02 (2006.01)**
[25] EN
[54] **METHODS FOR TREATING DISEASES USING MALT1 INHIBITORS**
[54] **METHODES DE TRAITEMENT DE MALADIES A L'AIDE D'INHIBITEURS DE MALT1**
[72] BISWAS, SUBHABRATA, US
[72] RAO, PATRICIA ELAINE, US
[72] FOX, BARBARA SAXTON, US
[72] RABAH, DANIA MOUNIR, US
[72] LONG, ANDREW JOHN, US
[71] RAREFIED BIOSCIENCES, INC., US
[85] 2024-06-05
[86] 2022-12-09 (PCT/US2022/052450)
[87] (WO2023/107721)
[30] US (63/288,081) 2021-12-10
[30] US (63/288,083) 2021-12-10
[30] US (63/288,085) 2021-12-10
[30] US (63/306,655) 2022-02-04
[30] US (63/306,657) 2022-02-04
[30] US (63/306,660) 2022-02-04

[21] **3,240,141**
[13] A1
[51] **Int.Cl. C25C 3/08 (2006.01) C25C 7/02 (2006.01)**
[25] EN
[54] **CATHODE ASSEMBLY**
[54] **ENSEMBLE CATHODE**
[72] AKITA, RYO, JP
[72] KOYAMA, YASUHIRO, JP
[72] TSUDA, TAKUYA, JP
[72] KIERUJ, JEREMY, AU
[72] MOLENAAR, DAVID, AU
[71] SEC CARBON, LTD., JP
[71] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU
[85] 2024-06-05
[86] 2022-10-13 (PCT/JP2022/038136)
[87] (WO2023/119802)
[30] JP (2021-209593) 2021-12-23

[21] **3,240,142**
[13] A1
[51] **Int.Cl. A61K 35/742 (2015.01) A61P 1/04 (2006.01)**
[25] EN
[54] **METHODS FOR DETECTING INHERITED MUTATIONS USING MULTIPLEX GENE SPECIFIC PCR**
[54] **PROCEDES DE DETECTION DE MUTATIONS HERITEES A L'AIDE D'UNE PCR SPECIFIQUE D'UN GENE MULTIPLEX**
[72] ROSENTHAL, SUN HEE, US
[71] QUEST DIAGNOSTICS INVESTMENTS LLC, US
[85] 2024-06-05
[86] 2022-12-06 (PCT/US2022/052044)
[87] (WO2023/107512)
[30] US (63/286,906) 2021-12-07

[21] **3,240,143**
[13] A1
[25] EN
[54] **IMPROVEMENTS IN AND RELATING TO WELDING AND QUALITY CONTROL**
[54] **AMELIORATIONS DANS LE DOMAINE DU SOUDAGE ET DU CONTROLE DE LA QUALITE, ET RELATIVES A CES DOMAINES**
[72] VITHANAGE, RANDIKA KOSALA WATHAVANA, GB
[72] MACLEOD, CHARLES NORMAN, GB
[72] LINES, DAVID IAN ARTHUR, GB
[72] SMART, MATT, GB
[72] SMART, PAUL, GB
[72] SWAIN, RYAN, GB
[72] ROOKER, TIM, GB
[72] BALAKRISHNAN, JEYAGANESH, GB
[72] LIU, XUANANG, GB
[71] CAVENDISH NUCLEAR LIMITED, GB
[85] 2024-06-05
[86] 2022-12-22 (PCT/GB2022/053358)
[87] (WO2023/118877)
[30] GB (2118771.1) 2021-12-22

[21] **3,240,144**
[13] A1
[51] **Int.Cl. C01B 3/00 (2006.01) C01B 21/082 (2006.01) C01B 25/37 (2006.01)**
[25] EN
[54] **PROCESS FOR PRODUCING NANOFLAKES FROM G-C3N4/METAL COMPOSITE MATERIAL**
[54] **PROCEDE DE PRODUCTION DE NANOFLOCONS A PARTIR D'UN MATERIAU COMPOSITE G-C3N4/METAL**
[72] SMAJLAJ, MERKUR, DE
[72] RENZ, MICHAEL, AT
[71] HYDROSOLID GMBH, AT
[85] 2024-06-05
[86] 2022-12-02 (PCT/AT2022/060424)
[87] (WO2023/102584)
[30] AT (A50989/2021) 2021-12-10

[21] **3,240,145**
[13] A1
[51] **Int.Cl. C07D 491/16 (2006.01) A61P 33/06 (2006.01) C07D 491/18 (2006.01) C07D 491/22 (2006.01)**
[25] EN
[54] **ANTIMALARIAL AGENTS**
[54] **AGENTS ANTIPALUDIQUES**
[72] MCCAULEY, JOHN A., US
[72] DE LERA RUIZ, MANUEL, US
[72] GUO, ZHUYAN, US
[72] NANTERMET, PHILIPPE, US
[72] KELLY III, MICHAEL J., US
[72] GUTIERREZ BONET, ALVARO, US
[72] ZHAO, LIANYUN, CN
[72] LEI, ZHIYU, CN
[72] HU, BIN, CN
[72] ZHAN, DONGMEI, CN
[72] HODDER, ANTHONY, AU
[71] MERCK SHARP & DOHME LLC, US
[71] THE WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH, AU
[71] MSD R&D (CHINA) CO., LTD., CN
[85] 2024-06-05
[86] 2022-12-05 (PCT/US2022/051770)
[87] (WO2023/107356)
[30] CN (PCT/CN2021/136177) 2021-12-07
[30] US (63/397,614) 2022-08-12

[21] **3,240,146**
[13] A1
[51] **Int.Cl. B66C 1/10 (2006.01) B66C 1/66 (2006.01)**
[25] EN
[54] **REMOTE CONNECTION MECHANISM FOR LIFT AND TRANSPORT ASSEMBLY**
[54] **MECANISME DE LIAISON A DISTANCE POUR ENSEMBLE DE LEVAGE ET DE TRANSPORT**
[72] PUISTO, KYLE, US
[72] RODRIGUEZ, EDDIE, US
[71] KONECRANES GLOBAL CORPORATION, FI
[85] 2024-06-05
[86] 2021-12-10 (PCT/US2021/062849)
[87] (WO2023/107120)

[21] **3,240,147**
[13] A1
[51] **Int.Cl. C01F 17/36 (2020.01)**
[25] EN
[54] **PROCESS FOR THE PREPARATION OF LITHIUM RARE-EARTH HALIDES**
[54] **PROCEDE DE PREPARATION D'HALOGENURES DE TERRES RARES TELS QUE LE LITHIUM**
[72] BRAIDA, MARC-DAVID, FR
[72] TOTH, REKA, FR
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-06-05
[86] 2022-12-15 (PCT/EP2022/086174)
[87] (WO2023/117698)
[30] EP (21306918.0) 2021-12-23

[21] **3,240,148**
[13] A1
[51] **Int.Cl. E21B 47/009 (2012.01) E21B 47/092 (2012.01) E21B 47/095 (2012.01) E21B 47/022 (2012.01)**
[25] EN
[54] **DEVICES, SYSTEMS, AND METHODS FOR DETECTING THE ROTATION OF ONE OR MORE COMPONENTS FOR USE WITH A WELLBORE**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES POUR LA DETECTION DE LA ROTATION D'UN OU DE PLUSIEURS COMPOSANTS POUR UNE UTILISATION AVEC UN PUITS DE FORAGE**
[72] TREIBERG, TERRY, US
[72] WRIGHT, TERRY, US
[72] LARSON, ERIC, US
[71] THETA OILFIELD SERVICES, INC., US
[85] 2024-06-05
[86] 2022-11-10 (PCT/US2022/049624)
[87] (WO2023/113950)
[30] US (17/549,519) 2021-12-13

[21] **3,240,149**
[13] A1
[51] **Int.Cl. B60L 1/00 (2006.01) B60L 58/33 (2019.01) B60L 7/14 (2006.01) B60T 5/00 (2006.01)**
[25] EN
[54] **WORK VEHICLE**
[54] **VEHICULE DE TRAVAIL**
[72] SAKUMA, GO, JP
[72] HOSHINO, YUTA, JP
[71] KOMATSU LTD., JP
[85] 2024-06-05
[86] 2022-12-08 (PCT/JP2022/045306)
[87] (WO2023/106373)
[30] JP (2021-200817) 2021-12-10

[21] **3,240,150**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01)**
[25] EN
[54] **METHODS AND MATERIALS FOR ASSESSING HOMOLOGOUS RECOMBINATION DEFICIENCY IN BREAST CANCER SUBTYPES**
[54] **PROCEDES ET MATERIAUX POUR EVALUER UNE DEFICIENCE DE RECOMBINAISON HOMOLOGUE DANS DES SOUS-TYPES DE CANCER DU SEIN**
[72] GUTIN, ALEXANDER, US
[72] TIMMS, KIRSTEN, US
[72] LANCHBURY, JERRY, US
[71] MYRIAD GENETICS, INC., US
[85] 2024-06-05
[86] 2022-12-06 (PCT/US2022/052040)
[87] (WO2023/107509)
[30] US (63/287,374) 2021-12-08

[21] **3,240,151**
[13] A1
[51] **Int.Cl. B01D 53/26 (2006.01) F24F 3/14 (2006.01)**
[25] EN
[54] **ROTARY BED DEHUMIDIFICATION SYSTEM AND METHOD WITH CONTROL OF CONDENSATION IN RECIRCULATING LOOP**
[54] **SYSTEME ET PROCEDE DE DESHUMIDIFICATION A LIT ROTATIF AVEC COMMANDE DE CONDENSATION DANS UNE BOUCLE DE RECIRCULATION**
[72] AGOSTI, MICHAEL A., US
[72] LAROSA II, FRANCIS JOHN, US
[71] MUNTERS CORPORATION, US
[85] 2024-06-05
[86] 2022-12-12 (PCT/US2022/052564)
[87] (WO2023/114144)
[30] US (63/288,910) 2021-12-13

[21] **3,240,152**
[13] A1
[51] **Int.Cl. E06B 9/40 (2006.01)**
[25] EN
[54] **MEMBRANE FRAME**
[54] **CADRE DE MEMBRANE**
[72] MCCORMICK, MICHAEL, GB
[71] MCCORMICK, MICHAEL, GB
[85] 2024-06-05
[86] 2022-12-06 (PCT/EP2022/084561)
[87] (WO2023/104779)
[30] IE (2021/0206) 2021-12-07

[21] **3,240,153**
[13] A1
[51] **Int.Cl. B62B 9/28 (2006.01) B62B 5/08 (2006.01)**
[25] EN
[54] **STROLLER ASSEMBLY**
[54] **ENSEMBLE POUSSETTE**
[72] GERHART, STEVEN G., US
[72] WILLIAMS, BRUCE L., US
[71] WONDERLAND SWITZERLAND AG, CH
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/052290)
[87] (WO2023/114086)
[30] US (63/265,328) 2021-12-13

[21] **3,240,155**
[13] A1
[51] **Int.Cl. C08F 4/659 (2006.01) C08F 4/6592 (2006.01) C08F 110/02 (2006.01) C08F 210/16 (2006.01)**
[25] EN
[54] **TRANSITION METAL COMPOUND, CATALYST COMPOSITION INCLUDING THE SAME, AND METHOD FOR PREPARING OLEFIN POLYMER USING THE SAME**
[54] **COMPOSE DE METAL DE TRANSITION, COMPOSITION CATALYTIQUE LE COMPRENANT, ET PROCEDE DE PREPARATION DE POLYMERE D'OLEFINE L'UTILISANT**
[72] SHIN, DONGCHEOL, KR
[72] OH, YEONOCK, KR
[72] KIM, MINJI, KR
[72] KIM, MIJI, KR
[72] CHEONG, SANG BAE, KR
[72] PARK, DONG KYU, KR
[72] SHIM, CHOON SIK, KR
[72] JEON, MINHO, KR
[72] SHIN, DAE HO, KR
[71] SABIC SK NEXLENE COMPANY PTE. LTD., SG
[85] 2024-06-05
[86] 2022-12-28 (PCT/IB2022/062828)
[87] (WO2023/126845)
[30] KR (10-2021-0190585) 2021-12-29
[30] KR (10-2022-0180458) 2022-12-21

[21] **3,240,157**
[13] A1
[51] **Int.Cl. A61K 6/60 (2020.01) A61K 6/30 (2020.01) A61K 6/54 (2020.01) A61K 6/62 (2020.01) A61K 6/71 (2020.01) A61K 6/887 (2020.01)**
[25] EN
[54] **DENTAL CURABLE COMPOSITION**
[54] **COMPOSITION DENTAIRE DURCISSABLE**
[72] ATAKA, KENSUKE, JP
[72] NOJIRI, YAMATO, JP
[71] KURARAY NORITAKE DENTAL INC., JP
[85] 2024-06-05
[86] 2022-12-09 (PCT/JP2022/045570)
[87] (WO2023/106419)
[30] JP (2021-200444) 2021-12-09

[21] **3,240,158**
[13] A1
[51] **Int.Cl. H01M 10/54 (2006.01)**
[25] EN
[54] **STORAGE BATTERY RECYCLING DEVICE**
[54] **DISPOSITIF DE RECYCLAGE DE BATTERIE DE STOCKAGE**
[72] OZAKI, RYOICHI, JP
[72] MORIYAMA, TOMOHIRO, JP
[72] SAKURAI, YUTA, JP
[72] TADA, KOSHI, JP
[72] YOSHIDA, TAKUJI, JP
[72] TERAKADO, SHINGO, JP
[72] UCHIDA, KAZUHITO, JP
[72] HEMMI, MASARU, JP
[72] NAMIHIRA, TAKAO, JP
[71] JERA CO., INC., JP
[85] 2024-06-05
[86] 2022-12-09 (PCT/JP2022/045557)
[87] (WO2023/106416)
[30] JP (2021-201051) 2021-12-10

[21] **3,240,160**
[13] A1
[51] **Int.Cl. A61B 17/221 (2006.01)**
[25] EN
[54] **THROMBOTIC MATERIAL EXTRACTION**
[54] **EXTRACTION DE MATERIAU THROMBOTIQUE**
[72] PEREZ SERRANOS, ISABEL, ES
[72] DURAN PRIU, MARTA, ES
[72] DUOCASTELLA CODINA, LUIS, ES
[72] MACHO FERNANDEZ, JUAN MIGUEL, ES
[72] CASTRO REYES, ENRIQUE, ES
[72] GONZALEZ GARCIA, ALEJANDRO, ES
[72] LAGUARTA ALAPONT, AINA, ES
[71] LIFE VASCULAR DEVICES BIOTECH, S.L., ES
[85] 2024-06-05
[86] 2022-12-07 (PCT/EP2022/084865)
[87] (WO2023/104923)
[30] EP (21383118.3) 2021-12-09

[21] **3,240,161**
[13] A1
[51] **Int.Cl. F41G 1/30 (2006.01) G02B 23/10 (2006.01) F41G 1/34 (2006.01)**
[25] EN
[54] **SEALED REFLECTING SIGHT WITH LOW PROFILE CARRIER ASSEMBLY**
[54] **VISEUR REFLECHISSANT SCELLE AVEC ENSEMBLE SUPPORT A PROFIL BAS**
[72] CRISPIN, QUINT DEAN, US
[71] LEUPOLD & STEVENS, INC., US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/052304)
[87] (WO2023/167723)
[30] US (63/287,553) 2021-12-09

[21] **3,240,162**
[13] A1
[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **BEVERAGE POD SYSTEM WITH POD CATCHER**
[54] **SYSTEME DE DOSETTES DE BOISSON AVEC COLLECTEUR DE DOSETTES**
[72] VUAGNIAUX, DIDIER, CH
[72] KOLLEP, ALEXANDRE, CH
[72] ZURCHER, RETO MARKUS, CH
[72] EISENBART, ALEX, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-05
[86] 2022-12-19 (PCT/EP2022/086661)
[87] (WO2023/117906)
[30] EP (21216616.9) 2021-12-21

[21] **3,240,164**
[13] A1
[25] EN
[54] **TRIPEPTIDE LINKERS AND METHODS OF USE THEREOF**
[54] **LIEURS TRIPEPTIDIQUES ET METHODES D'UTILISATION ASSOCIEES**
[72] TSUCHIKAMA, KYOJI, US
[72] ANAMI, YASUAKI, US
[72] HA, YIN YUEN, US
[72] TSUCHIKAMA, CHISATO, US
[72] AN, ZHIQIANG, US
[72] ZHANG, NINGYAN, US
[71] THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM, US
[85] 2024-06-05
[86] 2022-12-20 (PCT/US2022/082020)
[87] (WO2023/122587)
[30] US (63/291,918) 2021-12-20

[21] **3,240,165**
[13] A1
[51] **Int.Cl. C10G 1/10 (2006.01) C10G 9/36 (2006.01) C10L 1/02 (2006.01) C10L 1/185 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PYROLYSIS OF SUBSTANTIALLY PLASTICS MATERIAL OF INCONSTANT COMPOSITION, RELATIVE REACTOR, APPARATUS AND PRODUCT OBTAINED**
[54] **PROCEDE DE PYROLYSE DE MATIERE SENSIBLEMENT PLASTIQUE DE COMPOSITION NON CONSTANTE, REACTEUR ASSOCIE, APPAREIL ET PRODUIT OBTENU**
[72] FELISARI, RICCARDO, IT
[72] GALEOTTI, ARMANDO, IT
[72] NODARI, MIRCO, IT
[72] PONTICIELLO, ANTONIO, IT
[72] FERRANDO, ANGELO, IT
[72] ASSANDRI, FABIO, IT
[71] VERSALIS S.P.A., IT
[85] 2024-06-05
[86] 2022-12-27 (PCT/IB2022/062799)
[87] (WO2023/126824)
[30] IT (102021000033044) 2021-12-30

[21] **3,240,166**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) A01N 37/44 (2006.01)**
[25] EN
[54] **COMBINATIONS OF BIOSTIMULANT COMPOSITIONS**
[54] **COMBINAISONS DE COMPOSITIONS BIOSTIMULANTES**
[72] DE COTE, JOSE ANTONIO, US
[71] SHARED-X LLC, US
[85] 2024-06-05
[86] 2022-12-05 (PCT/US2022/080944)
[87] (WO2023/107903)
[30] US (63/265,024) 2021-12-06

[21] **3,240,167**
[13] A1
[51] **Int.Cl. B65G 57/02 (2006.01)**
[25] EN
[54] **PALLET TOWER FOR HIGH DENSITY PALLET STORAGE AND METHOD**
[54] **TOUR A PALETTES POUR STOCKAGE DE PALETTES A HAUTE DENSITE ET PROCEDE**
[72] REDMAN, PAUL, CA
[71] QTEK DESIGN LTD., CA
[85] 2024-06-05
[86] 2022-12-07 (PCT/CA2022/051780)
[87] (WO2023/102649)
[30] US (63/288,015) 2021-12-10

[21] **3,240,168**
[13] A1
[51] **Int.Cl. B23K 9/16 (2006.01) B23K 9/18 (2006.01) B23K 11/00 (2006.01) B23K 35/30 (2006.01)**
[25] EN
[54] **WELDED STEEL PIPE FOR SLURRY TRANSPORTING AND MANUFACTURING METHOD FOR SAME**
[54] **TUYAU EN ACIER SOUDE POUR TRANSPORT DE SUSPENSION ET SON PROCEDE DE FABRICATION**
[72] LEE, SANG-CHUL, KR
[71] POSCO CO., LTD, KR
[85] 2024-06-05
[86] 2022-12-21 (PCT/KR2022/020919)
[87] (WO2023/121277)
[30] KR (10-2021-0184251) 2021-12-21

[21] **3,240,169**
[13] A1
[51] **Int.Cl. C01B 32/168 (2017.01) H01M 4/136 (2010.01) H01M 4/583 (2010.01) H01M 10/0525 (2010.01) C01B 32/194 (2017.01) C01B 32/198 (2017.01) C01B 21/06 (2006.01)**
[25] EN
[54] **POSITIVE ELECTRODE MATERIAL FOR LITHIUM-SULFUR BATTERY AND LITHIUM-SULFUR BATTERY COMPRISING THE SAME**
[54] **MATERIAU DE CATHODE POUR BATTERIE AU LITHIUM-SOUFRE ET BATTERIE AU LITHIUM-SOUFRE LE CONTENANT**
[72] JEONG, YO-CHAN, KR
[72] LEE, CHANG-HOON, KR
[72] YANG, SEUNG-BO, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-06-05
[86] 2023-06-20 (PCT/KR2023/008557)
[87] (WO2024/048933)
[30] KR (10-2022-0110385) 2022-08-31
[30] KR (10-2022-0110413) 2022-08-31
[30] KR (10-2022-0187899) 2022-12-28
[30] KR (10-2023-0025408) 2023-02-24
[30] KR (10-2023-0042283) 2023-03-30
[30] KR (10-2023-0079223) 2023-06-20

[21] **3,240,170**
[13] A1
[51] **Int.Cl. F25J 1/00 (2006.01) F25J 1/02 (2006.01)**
[25] FR
[54] **METHOD FOR LIQUEFYING A METHANE-RICH GAS TO BE PROCESSED, AND CORRESPONDING FACILITY**
[54] **PROCEDE DE LIQUEFACTION D'UN GAZ A TRAITER RICHE EN METHANE, ET INSTALLATION CORRESPONDANTE**
[72] BENOIT, LAURENT, FR
[72] CHEVALIER, JULIEN, FR
[72] HORTANED, THIERRY, FR
[71] ENGIE, FR
[85] 2024-06-05
[86] 2022-12-05 (PCT/EP2022/084367)
[87] (WO2023/104695)
[30] FR (FR2113017) 2021-12-06

[21] **3,240,173**
[13] A1
[51] **Int.Cl. F25J 1/00 (2006.01) F25J 1/02 (2006.01)**
[25] EN
[54] **HYDROGEN LIQUEFIER**
[54] **LIQUEFACTEUR D'HYDROGENE**
[72] HIGGINBOTHAM, PAUL, GB
[72] PETRIK, JOHN H., US
[72] HARRIS, CHRISTOPHER F., US
[71] AIR PRODUCTS AND CHEMICALS, INC., US
[85] 2024-06-05
[86] 2022-07-29 (PCT/IB2022/057094)
[87] (WO2023/105305)
[30] US (17/542,682) 2021-12-06

[21] **3,240,174**
[13] A1
[51] **Int.Cl. C07K 14/575 (2006.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01) C07K 14/47 (2006.01) C07K 14/52 (2006.01) C07K 14/705 (2006.01)**
[25] EN
[54] **CHIMERIC ADIPONECTIN POLYPEPTIDES, EXTRACELLULAR VESICLE COMPRISING THE SAME, AND USES THEREOF**
[54] **POLYPEPTIDES D'ADIPONECTINE CHIMERIQUES, VESICULE EXTRACELLULAIRE LE COMPRENANT ET LEURS UTILISATIONS**
[72] MAMOUN, ZAINE EL ABIDDINE ROBERT, FR
[72] TRENTIN, BERNADETTE NADINE, FR
[72] POLAK, KATARZYNA, FR
[71] CILOA, FR
[71] JERID, FR
[85] 2024-06-05
[86] 2022-12-06 (PCT/EP2022/084653)
[87] (WO2023/104822)
[30] EP (21306717.6) 2021-12-06

[21] **3,240,175**
[13] A1
[51] **Int.Cl. G01D 5/40 (2006.01)**
[25] EN
[54] **LOW-COHERENCE TERAHERTZ ILLUMINATION SOURCE FOR IMAGING APPLICATIONS**
[54] **SOURCE D'ECLAIRAGE TERAHERTZ A FAIBLE COHERENCE POUR APPLICATIONS D'IMAGERIE**
[72] PAQUET, ALEX, CA
[72] DOUCET, MICHEL, CA
[71] INSTITUT NATIONAL D'OPTIQUE, CA
[85] 2024-06-05
[86] 2022-12-13 (PCT/CA2022/051813)
[87] (WO2023/108269)
[30] US (63/265,616) 2021-12-17

[21] **3,240,176**
[13] A1
[51] **Int.Cl. G01V 3/16 (2006.01) G01V 3/165 (2006.01)**
[25] FR
[54] **MAPPING METHOD FOR MONITORING THE STATE OF AND/OR GEOLOCATING A BURIED, HALF-BURIED OR SUBMERGED STRUCTURE, AND ASSOCIATED GEOLOCATION METHOD**
[54] **PROCEDE DE CARTOGRAPHIE POUR LE CONTROLE D'ETAT ET/OU LA GEOLOCALISATION D'UNE STRUCTURE ENTERREE, SEMI-ENTERREE OU IMMERGEE ET PROCEDE DE GEOLOCALISATION ASSOCIE**
[72] LAICHOUBI, MEHDI, FR
[72] DECOMBE, SYLVAIN, FR
[71] SKIPPER NDT, FR
[85] 2024-06-05
[86] 2023-01-25 (PCT/EP2023/051749)
[87] (WO2023/148057)
[30] FR (FR2200925) 2022-02-02

[21] **3,240,177**
[13] A1
[51] **Int.Cl. A47J 31/36 (2006.01)**
[25] EN
[54] **BEVERAGE POD SYSTEM WITH POD EJECTOR**
[54] **SYSTEME DE DOSETTE DE BOISSONS AVEC EJECTEUR DE DOSETTE**
[72] VUAGNIAUX, DIDIER, CH
[72] KOLLEP, ALEXANDRE, CH
[72] ZURCHER, RETO MARKUS, CH
[72] EISENBART, ALEX, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-05
[86] 2022-12-19 (PCT/EP2022/086669)
[87] (WO2023/117913)
[30] EP (21216607.8) 2021-12-21

[21] **3,240,179**
[13] A1
[51] **Int.Cl. A61K 47/60 (2017.01) A61K 47/69 (2017.01)**
[25] EN
[54] **SURFACE CONJUGATION TO POLY(AMINE-CO-ESTER) NANOPARTICLES FOR TARGETING TO CELLS AND TISSUES**
[54] **CONJUGAISON DE SURFACE A DES NANOPARTICULES DE POLY(AMINE-CO-ESTER) DESTINEES A CIBLER DES CELLULES ET DES TISSUS**
[72] PIOTROWSKI-DASPIT, ALEXANDRA, US
[72] ALBERT, CLAIRE, US
[72] SALTZMAN, W. MARK, US
[71] YALE UNIVERSITY, US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/081189)
[87] (WO2023/108076)
[30] US (63/287,410) 2021-12-08
[30] US (63/290,042) 2021-12-15
[30] US (63/292,200) 2021-12-21
[30] US (63/301,942) 2022-01-21
[30] US (63/302,413) 2022-01-24
[30] US (63/418,744) 2022-10-24

[21] **3,240,180**
[13] A1
[51] **Int.Cl. A61P 3/14 (2006.01)**
[25] EN
[54] **METHOD AND COMPOSITION FOR SUPPORTING NORMAL BLOOD CALCIUM CONCENTRATIONS IN MAMMALS**
[54] **PROCEDE ET COMPOSITION POUR LE MAINTIEN D'UNE CONCENTRATION NORMALE DE CALCIUM DANS LE SANG DES MAMMIFERES**
[72] GOFF, JESSE PAUL, US
[72] SILBERHORN, TUCKER JAMES, US
[72] HUNDT, BRIAN THOMAS, US
[71] CONTRACT MANUFACTURING SERVICES, LLC, US
[85] 2024-06-05
[86] 2023-02-06 (PCT/US2023/012408)
[87] (WO2023/154247)
[30] US (63/308,838) 2022-02-10
[30] US (17/722,789) 2022-04-18

[21] **3,240,181**
[13] A1
[51] **Int.Cl. C22B 3/06 (2006.01) C22B 3/44 (2006.01)**
[25] EN
[54] **TREATMENT METHOD FOR ALLOY**
[54] **PROCEDE DE TRAITEMENT POUR ALLIAGE**
[72] TAKENOUCHI, HIROSHI, JP
[72] SHOUJI, HIROFUMI, JP
[72] MATSUOKA, ITSUMI, JP
[72] SANJO, SHOTA, JP
[72] MATSUGI, TAKUMI, JP
[72] ASANO, SATOSHI, JP
[72] HEGURI, SHIN-ICHI, JP
[71] SUMITOMO METAL MINING CO., LTD., JP
[85] 2024-06-05
[86] 2022-12-01 (PCT/JP2022/044424)
[87] (WO2023/106210)
[30] JP (2021-197733) 2021-12-06
[30] JP (2021-197734) 2021-12-06
[30] JP (2022-188423) 2022-11-25

[21] **3,240,184**
[13] A1
[51] **Int.Cl. G01N 29/32 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN AND RELATING TO ULTRASOUND PROBES**
[54] **AMELIORATIONS DES SONDES ULTRASONORES ET S'Y RAPPORTANT**
[72] VITHANAGE, RANDIKA KOSALA WATHAVANA, GB
[72] MACLEOD, CHARLES NORMAN, GB
[72] LINES, DAVID IAN ARTHUR, GB
[72] SMART, MATT, GB
[72] SMART, PAUL, GB
[72] SWAIN, RYAN, GB
[72] ROOKER, TIM, GB
[72] BALAKRISHNAN, JEYAGANESH, GB
[72] LIU, XUANANG, GB
[71] CAVENDISH NUCLEAR LIMITED, GB
[85] 2024-06-05
[86] 2022-12-22 (PCT/GB2022/053365)
[87] (WO2023/118884)
[30] GB (2118792.7) 2021-12-22
[30] GB (2118803.2) 2021-12-22
[30] GB (2205563.6) 2022-04-14
[30] GB (2212945.6) 2022-09-05

[21] **3,240,185**
[13] A1
[51] **Int.Cl. A61P 35/04 (2006.01) C07K 14/705 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **CHIMERIC SWITCH RECEPTORS IN NK CELLS**
[54] **RECEPTEURS DE COMMUTATION CHIMERIQUES DANS DES CELLULES NK**
[72] ALICI, EVREN, SE
[72] SUSEK, KATHARINA, SE
[71] VYCELLIX, INC., US
[71] ALICI, EVREN, SE
[71] SUSEK, KATHARINA, SE
[85] 2024-06-05
[86] 2022-12-06 (PCT/US2022/052043)
[87] (WO2023/107511)
[30] US (63/286,205) 2021-12-06

[21] **3,240,186**
[13] A1
[51] **Int.Cl. G01N 21/88 (2006.01)**
[25] EN
[54] **INTERACTIVE VISUALIZATIONS FOR INDUSTRIAL INSPECTIONS**
[54] **VISUALISATIONS INTERACTIVES POUR INSPECTIONS INDUSTRIELLES**
[72] PICKARD, JOSHUA K., CA
[71] EIGEN INNOVATIONS INC., CA
[85] 2024-06-05
[86] 2022-12-06 (PCT/CA2022/000060)
[87] (WO2023/102637)
[30] US (63/286,260) 2021-12-06

[21] **3,240,187**
[13] A1
[51] **Int.Cl. G06V 20/52 (2022.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR CLASSIFYING TIMBER LOGS**
[54] **APPAREIL ET PROCEDE DE CLASSIFICATION DE RONDINS DE BOIS**
[72] RENDAHL, JAN ERIK, SE
[72] EDVARDSSON, JONNY, SE
[72] LUNDSTEN, BJORN, SE
[71] TRACY OF SWEDEN AB, SE
[85] 2024-06-05
[86] 2022-12-06 (PCT/IB2022/061831)
[87] (WO2023/105408)
[30] SE (2130345-8) 2021-12-07

[21] **3,240,188**
[13] A1
[51] **Int.Cl. C12N 15/13 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **FULLY CANINE ANTI-CANINE PD-1 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-PD-1 CANIN ENTIEREMENT CANINS ET LEURS UTILISATIONS**
[72] SIEGEL, DONALD L., US
[72] MASON, NICOLA J., US
[72] PAZ, KEREN, US
[72] CHESTER, NICHOLAS (DECEASED), XX
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2024-06-05
[86] 2022-12-09 (PCT/US2022/081297)
[87] (WO2023/108138)
[30] US (63/288,284) 2021-12-10

[21] **3,240,189**
[13] A1
[25] EN
[54] **HYPOTONIC GEL-FORMING FORMULATIONS WITH ENHANCED RHEOLOGICAL PROPERTIES**
[54] **FORMULATIONS FORMANT GEL HYPOTONIQUE PRESENTANT DES PROPRIETES RHEOLOGIQUES AMELIOREES**
[72] ENSIGN, LAURA, US
[72] HSUEH, TUNG HENG, US
[72] HANES, JUSTIN, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2024-06-05
[86] 2022-11-29 (PCT/US2022/080579)
[87] (WO2023/107831)
[30] US (63/287,415) 2021-12-08

[21] **3,240,192**
[13] A1
[51] **Int.Cl. C07D 213/72 (2006.01) C07D 401/04 (2006.01) C07D 401/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **RAF KINASE INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE KINASE RAF ET LEURS PROCEDES D'UTILISATION**
[72] FLYNN, DANIEL L., US
[72] AHN, YU MI, US
[72] VOGETI, LAKSHMINARAYANA, US
[72] LE BOURDONNEC, BERTRAND, US
[72] CRAWLEY, CHASE KENYON, US
[71] DECIPHERA PHARMACEUTICALS, LLC, US
[85] 2024-06-05
[86] 2022-12-09 (PCT/US2022/081236)
[87] (WO2023/108103)
[30] US (63/287,866) 2021-12-09
[30] US (63/393,440) 2022-07-29

[21] **3,240,193**
[13] A1
[51] **Int.Cl. A61H 3/02 (2006.01)**
[25] EN
[54] **AXILLARY CRUTCH**
[54] **BEQUILLE AXILLAIRE**
[72] YOUNGER, MAX JEFFERIES, US
[72] ARNSPIGER, JOHN, US
[71] MOBILITY DESIGNED, INC., US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/081194)
[87] (WO2023/108079)
[30] US (63/265,140) 2021-12-08
[30] US (63/265,142) 2021-12-08

[21] **3,240,194**
[13] A1
[51] **Int.Cl. C07D 417/14 (2006.01) A61K 51/10 (2006.01)**
[25] EN
[54] **MACROCYCLIC COMPOUNDS AND METHODS OF MAKING THE SAME**
[54] **COMPOSES MACROCYCLIQUES ET LEURS PROCEDES DE FABRICATION**
[72] CLEATOR, EDWARD, BE
[72] MATON, WILLIAM MARC, BE
[72] SALTER, RHYS, US
[71] JANSSEN BIOTECH, INC., US
[85] 2024-06-05
[86] 2022-11-08 (PCT/IB2022/060754)
[87] (WO2023/084396)
[30] US (63/277,278) 2021-11-09
[30] US (63/338,949) 2022-05-06

[21] **3,240,195**
[13] A1
[51] **Int.Cl. C07D 239/04 (2006.01) A61P 31/04 (2006.01) C07D 401/04 (2006.01) C07D 403/04 (2006.01) C07D 403/10 (2006.01) C07D 403/14 (2006.01) C07D 405/14 (2006.01) C07D 413/14 (2006.01) C07D 451/04 (2006.01) C07D 471/08 (2006.01) C07D 471/10 (2006.01) C07D 487/10 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL COMPOUNDS AND METHODS**
[54] **COMPOSES ANTIMICROBIENS ET PROCEDES**
[72] SEBAHAR, PAUL R., US
[72] LOOPER, RYAN E., US
[72] GRANT, SETH, US
[72] REDDY, HARIPRASADA R. KANNA, US
[72] TRESCO, BEN ISAAC C., US
[72] HAUSSENER, TRAVIS J., US
[72] ZIGAR, DANIEL FEODORE, US
[72] TESTA, CHARLES A., US
[71] CURZA GLOBAL, LLC, US
[71] THE UNIVERSITY OF UTAH RESEARCH FOUNDATION, US
[85] 2024-06-05
[86] 2022-12-28 (PCT/US2022/082474)
[87] (WO2023/129963)
[30] US (63/295,128) 2021-12-30

[21] **3,240,196**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **A CAPSULE FOR THE PREPARATION OF A BEVERAGE**
[54] **CAPSULE POUR LA PREPARATION D'UNE BOISSON**
[72] GALAFFU, NICOLA, FR
[72] ABEGGLEN, DANIEL, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-05
[86] 2022-12-05 (PCT/EP2022/084402)
[87] (WO2023/104712)
[30] EP (21213101.5) 2021-12-08

[21] **3,240,198**
[13] A1
[51] **Int.Cl. B65D 85/804 (2006.01)**
[25] EN
[54] **CAPSULE FOR THE PREPARATION OF A BEVERAGE AND A METHOD FOR MANUFACTURING SAID CAPSULE**
[54] **CAPSULE POUR LA PREPARATION D'UNE BOISSON ET PROCEDE DE FABRICATION DE LADITE CAPSULE**
[72] ABEGGLEN, DANIEL, CH
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-05
[86] 2022-12-05 (PCT/EP2022/084401)
[87] (WO2023/104711)
[30] EP (21213086.8) 2021-12-08

[21] **3,240,199**
[13] A1
[51] **Int.Cl. H02B 7/06 (2006.01) H02J 9/02 (2006.01)**
[25] EN
[54] **DATA CENTER ELECTRICAL POWER DISTRIBUTION WITH MODULAR MECHANICAL COOLING ISOLATION**
[54] **DISTRIBUTION DE PUISSANCE ELECTRIQUE DE CENTRE DE DONNEES AVEC ISOLATION DE REFROIDISSEMENT MECANIQUE MODULAIRE**
[72] KOERNER, MATTHEW DOUGLAS, US
[72] MUSILLI, JR. JOHN A., US
[71] CRITICAL PROJECT SERVICES, LLC, US
[85] 2024-06-05
[86] 2022-12-12 (PCT/US2022/081384)
[87] (WO2023/108175)
[30] US (63/288,450) 2021-12-10
[30] US (18/064,215) 2022-12-09

[21] **3,240,200**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) G16B 40/30 (2019.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR GENERATING SEQUENCING LIBRARIES**
[54] **PROCEDES ET SYSTEMES POUR GENERER DES BANQUES DE SEQUENCAGE**
[72] BRATMAN, SCOTT V., US
[72] BURGENER, JUSTIN M., US
[72] SINGHANIA, RAJAT, US
[72] SHEN, SHU YI, US
[72] CIRLAN, IULIA, US
[72] DINIZ DE CARVALHO, DANIEL, US
[71] ADELA, INC., US
[85] 2024-06-05
[86] 2022-12-09 (PCT/US2022/052432)
[87] (WO2023/107709)
[30] US (63/288,496) 2021-12-10
[30] US (63/367,551) 2022-07-01

[21] **3,240,201**
[13] A1
[51] **Int.Cl. A61B 34/10 (2016.01) G16H 50/50 (2018.01) G06F 30/10 (2020.01) A61F 2/82 (2013.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DESIGNING A STENT**
[54] **PROCEDE ET SYSTEME POUR CONCEVOIR UN STENT**
[72] WODLINGER, HAROLD, CA
[72] MOORE, D. RANDY, CA
[71] VITAA MEDICAL SOLUTIONS INC., CA
[85] 2024-06-05
[86] 2022-12-12 (PCT/IB2022/062063)
[87] (WO2023/111808)
[30] US (63/265,320) 2021-12-13

[21] **3,240,202**
[13] A1
[51] **Int.Cl. C07D 215/48 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS AND SALT FORMS OF A KINASE INHIBITOR**
[54] **FORMES CRISTALLINES ET FORMES SALINES D'UN INHIBITEUR DE KINASE**
[72] PHIZACKERLEY, KIRSTEN, US
[72] CAO, YIZHENG, US
[72] PCION, DOMINIKA, US
[71] EXELIXIS, INC., US
[85] 2024-06-05
[86] 2022-12-22 (PCT/US2022/082256)
[87] (WO2023/122739)
[30] US (63/292,748) 2021-12-22

[21] **3,240,203**
[13] A1
[51] **Int.Cl. C22C 21/06 (2006.01) C22C 1/02 (2006.01) C22C 1/03 (2006.01)**
[25] EN
[54] **ADDITION OF CALCIUM AND VANADIUM TO ALMG ALLOYS**
[54] **ADDITION DE CALCIUM ET DE VANADIUM A DES ALLIAGES ALMG**
[72] WIESNER, STUART, CH
[71] ALUMINIUM RHEINFELDEN ALLOYS GMBH, DE
[85] 2024-06-05
[86] 2022-12-02 (PCT/EP2022/084184)
[87] (WO2023/104652)
[30] EP (21213909.1) 2021-12-10

[21] **3,240,204**
[13] A1
[51] **Int.Cl. C01B 32/05 (2017.01)**
[25] EN
[54] **IMPROVED PARTICLE COATING METHOD**
[54] **METHODE DE REVETEMENT DE PARTICULES AMELIOREE**
[72] SPAHR, MICHAEL, BE
[72] KUHNT, CHRISTOPHER, DE
[72] CLAES, JORIS, BE
[71] RAIN CARBON BV, BE
[71] RAIN CARBON GERMANY GMBH, DE
[85] 2024-06-05
[86] 2023-01-24 (PCT/EP2023/051682)
[87] (WO2023/139286)
[30] EP (22152929.0) 2022-01-24

[21] **3,240,205**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01)**
[25] EN
[54] **ROW UNIT FOR AGRICULTURAL IMPLEMENT, AGRICULTURAL IMPLEMENT COMPRISING CLOSING WHEEL AND METHOD OF ADJUSTING CLOSING WHEEL**
[54] **RAYONNEUR POUR OUTIL AGRICOLE, OUTIL AGRICOLE COMPRENANT UNE ROUE DE FERMETURE ET PROCEDE DE REGLAGE DE ROUE DE FERMETURE**
[72] SANDBERG, BENGT, SE
[72] ROMMEDAHL, RUNE, SE
[72] STARK, CRISTER, SE
[71] VADERSTAD HOLDING AB, SE
[85] 2024-06-05
[86] 2022-12-15 (PCT/EP2022/086126)
[87] (WO2023/111171)
[30] SE (2151544-0) 2021-12-16

[21] **3,240,206**
[13] A1
[51] **Int.Cl. G01N 35/00 (2006.01) G01N 33/00 (2006.01)**
[25] EN
[54] **SULFUR AND AMORPHOUS DITHIAZINE MEASUREMENT**
[54] **MESURE DE SOUFRE ET DE DITHIAZINE AMORPHE**
[72] LOCKLEAR, JAY, US
[71] CONOCOPHILLIPS COMPANY, US
[85] 2024-06-05
[86] 2022-12-01 (PCT/US2022/080755)
[87] (WO2023/107857)
[30] US (63/287,457) 2021-12-08

[21] **3,240,207**
[13] A1
[51] **Int.Cl. H01M 8/04537 (2016.01) B60L 50/70 (2019.01) B60L 50/75 (2019.01) B60L 58/30 (2019.01) B60L 58/40 (2019.01)**
[25] EN
[54] **CRYOGENIC FUEL TANK VENTING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE MISE A L'AIR LIBRE D'UN RESERVOIR DE CARBURANT CRYOGENIQUE**
[72] PATELCZYK, JEFFREY, US
[72] DRUBE, THOMAS K., US
[71] CHART INC., US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/052232)
[87] (WO2023/107609)
[30] US (63/287,690) 2021-12-09

[21] **3,240,208**
[13] A1
[51] **Int.Cl. B01F 23/213 (2022.01) A62D 3/38 (2007.01) C01B 32/50 (2017.01) B01F 35/21 (2022.01) B01F 35/222 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ATMOSPHERIC DISPERSION OF OXIDANT FOR NET CONVERSION OF ATMOSPHERIC METHANE TO CARBON DIOXIDE**
[54] **SYSTEMES ET PROCEDES DE DISPERSION ATMOSPHERIQUE D'OXYDANT POUR LA CONVERSION NETTE DE METHANE ATMOSPHERIQUE EN DIOXYDE DE CARBONE**
[72] BELL, SCOTT CHRISTOPHER, CA
[71] BELL, SCOTT CHRISTOPHER, CA
[85] 2024-06-05
[86] 2022-12-14 (PCT/CA2022/051824)
[87] (WO2023/108278)
[30] US (63/290,540) 2021-12-16

[21] **3,240,209**
[13] A1
[51] **Int.Cl. H04B 1/715 (2011.01) H04W 16/14 (2009.01) H04W 16/28 (2009.01) H04B 17/12 (2015.01) H04B 17/21 (2015.01) H04W 72/044 (2023.01) H04B 7/06 (2006.01) H04W 28/26 (2009.01) H04W 72/20 (2023.01)**
[25] EN
[54] **AIRBORNE RADAR AND 5G RADIO FREQUENCY SPECTRUM SHARING**
[54] **RADAR AEROPORTE ET PARTAGE DE SPECTRE RADIOFREQUENCE 5G**
[72] MODY, APURVA N., US
[72] DOLAN, JAMES, US
[72] SIMPSON, DAVID, US
[71] A10 SYSTEMS INC., US
[85] 2024-06-05
[86] 2022-09-19 (PCT/US2022/044019)
[87] (WO2023/044123)
[30] US (63/245,555) 2021-09-17

[21] **3,240,210**
[13] A1
[51] **Int.Cl. B05B 11/00 (2023.01)**
[25] EN
[54] **CONTAINER WITH INSET NECK AND DISCREET PUMP ASSEMBLY**
[54] **RECIPIENT CONTENANT UN COL ENCASTRE ET ENSEMBLE POMPE DISCRET**
[72] MOWBRAY, MATHEW PETER, NZ
[71] MONDAY INTERNATIONAL LIMITED, CN
[85] 2024-06-05
[86] 2021-12-22 (PCT/SG2021/050817)
[87] (WO2023/121558)

[21] **3,240,211**
[13] A1
[51] **Int.Cl. C07D 233/90 (2006.01) A61P 31/04 (2006.01) A61P 31/10 (2006.01)**
[25] EN
[54] **HYDRATE CRYSTAL OF 5-CHLORO-4-(3-CHLORO-4-METHYLPHENYL)-1H-IMIDAZOLE-2-CARBONITRILE**
[54] **CRISTAL D'HYDRATE DE 5-CHLORO-4-(3-CHLORO-4-METHYLPHENYL)-1H-IMIDAZOLE-2-CARBONITRILE**
[72] SHIKAMA, HIROSHI, JP
[72] HIGUCHI, KOJI, JP
[72] ATSUMI, SHOGO, JP
[72] SHIOTA, HIROTO, JP
[72] IMURA, TAKAYUKI, JP
[71] ISHIHARA SANGYO KAISHA, LTD., JP
[85] 2024-06-05
[86] 2022-12-07 (PCT/JP2022/045047)
[87] (WO2023/106320)
[30] JP (2021-199461) 2021-12-08

[21] **3,240,212**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR IMPROVING ENDOTHELIAL CELL BARRIER**
[54] **PROCEDES ET COMPOSITIONS POUR AMELIORER LA BARRIERE CELLULAIRE ENDOTHELIALE**
[72] FIORET, BRYAN, US
[72] PETERSEN, THOMAS, US
[72] BONVILLAIN, RYAN, US
[72] GRAHAM, DAVID, US
[72] VU, PETER, US
[72] GOOR, LOTTE VAN DEN, US
[71] UNITED THERAPEUTICS CORPORATION, US
[85] 2024-06-05
[86] 2022-12-07 (PCT/US2022/052120)
[87] (WO2023/107553)
[30] US (63/287,254) 2021-12-08
[30] US (63/399,494) 2022-08-19

[21] **3,240,213**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01) C12M 1/00 (2006.01)**
[25] FR
[54] **DISPOSABLE FILTRATION DEVICE FOR PURIFYING ADIPOSE TISSUE**
[54] **DISPOSITIF DE FILTRATION A USAGE UNIQUE POUR LA PURIFICATION DE TISSU ADIPEUX**
[72] ROCHE, REGIS, FR
[72] CABAUD, FRANCOIS, FR
[72] NELISSEN, XAVIER, BE
[71] NEOSYAD, FR
[85] 2024-06-05
[86] 2022-11-04 (PCT/FR2022/052078)
[87] (WO2023/105130)
[30] FR (FR2113140) 2021-12-08

[21] **3,240,214**
[13] A1
[51] **Int.Cl. A61K 35/35 (2015.01) A61M 1/00 (2006.01)**
[25] FR
[54] **MACHINE FOR THE PURIFICATION OF ADIPOSE TISSUE AND INTRODUCTION OF THE PURIFIED ADIPOSE TISSUE INTO A PATIENT'S BODY**
[54] **MACHINE POUR LA PURIFICATION D'UN TISSU ADIPEUX ET L'INTRODUCTION DU TISSU ADIPEUX PURIFIE DANS LE CORPS D'UN PATIENT**
[72] ROCHE, REGIS, FR
[72] CABAUD, FRANCOIS, FR
[72] NELISSEN, XAVIER, BE
[71] NEOSYAD, FR
[85] 2024-06-05
[86] 2022-11-03 (PCT/FR2022/052073)
[87] (WO2023/105129)
[30] FR (FR2113137) 2021-12-08

[21] **3,240,215**
[13] A1
[51] **Int.Cl. A24F 40/90 (2020.01) A24F 40/95 (2020.01)**
[25] EN
[54] **CHARGING DEVICE HAVING AN ANTENNA**
[54] **DISPOSITIF DE CHARGE DOTE D'UNE ANTENNE**
[72] AL-AMIN, MOHAMMED, GB
[72] BRUTON, CONNOR, GB
[72] MUSGRAVE, DAMYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-05
[86] 2022-12-08 (PCT/GB2022/053132)
[87] (WO2023/105231)
[30] GB (2117814.0) 2021-12-09

[21] **3,240,216**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01) A61K 35/35 (2015.01) C12M 1/00 (2006.01)**
[25] FR
[54] **DEVICE FOR PURIFYING ADIPOSE TISSUE**
[54] **DISPOSITIF DE PURIFICATION DE TISSU ADIPEUX**
[72] ROCHE, REGIS, FR
[72] CABAUD, FRANCOIS, FR
[72] NELISSEN, XAVIER, BE
[71] NEOSYAD, FR
[85] 2024-06-05
[86] 2022-10-21 (PCT/FR2022/052006)
[87] (WO2023/105126)
[30] FR (FR2113135) 2021-12-08

[21] **3,240,217**
[13] A1
[51] **Int.Cl. A24F 40/90 (2020.01) A24F 40/95 (2020.01)**
[25] EN
[54] **CHARGING DEVICE**
[54] **DISPOSITIF DE CHARGE**
[72] AL-AMIN, MOHAMMED, GB
[72] MUSGRAVE, DAMYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-05
[86] 2022-12-08 (PCT/GB2022/053133)
[87] (WO2023/105232)
[30] GB (2117815.7) 2021-12-09

[21] **3,240,218**
[13] A1
[51] **Int.Cl. A61M 1/00 (2006.01) A61K 35/35 (2015.01) C12M 1/00 (2006.01)**
[25] FR
[54] **METHOD FOR PURIFYING ADIPOSE TISSUE AND ASSOCIATED PURIFIED ADIPOSE TISSUE**
[54] **PROCEDE DE PURIFICATION D'UN TISSU ADIPEUX ET TISSU ADIPEUX PURIFIE ASSOCIE**
[72] ROCHE, REGIS, FR
[72] CABAUD, FRANCOIS, FR
[72] NELISSEN, XAVIER, BE
[71] NEOSYAD, FR
[85] 2024-06-05
[86] 2022-10-24 (PCT/FR2022/052008)
[87] (WO2023/105127)
[30] FR (FR2113138) 2021-12-08

[21] **3,240,219**
[13] A1
[51] **Int.Cl. A24F 40/65 (2020.01) H02J 50/20 (2016.01) A24F 40/90 (2020.01)**
[25] EN
[54] **RADIO FREQUENCY TRANSMITTER FOR PROVIDING POWER TO AN AEROSOL PROVISION DEVICE**
[54] **EMETTEUR RADIOFREQUENCE POUR FOURNIR DE L'ENERGIE A UN DISPOSITIF DE FOURNITURE D'AEROSOL**
[72] AL-AMIN, MOHAMMED, GB
[72] BRUTON, CONNOR, GB
[72] MUSGRAVE, DAMYN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-05
[86] 2022-12-08 (PCT/GB2022/053134)
[87] (WO2023/105233)
[30] GB (2117818.1) 2021-12-09

[21] **3,240,220**
[13] A1
[51] **Int.Cl. E21B 47/07 (2012.01) F42C 11/06 (2006.01) F42D 1/08 (2006.01)**
[25] EN
[54] **BOREHOLE TEMPERATURE MONITORING**
[54] **SURVEILLANCE DE LA TEMPERATURE D'UN TROU DE FORAGE**
[72] KRUGER, MICHIEL JACOBUS, ZA
[72] VAN SOELEN, SCHAGEN DIEDERIK, AU
[72] LO, CORY, US
[71] DETNET SOUTH AFRICA (PTY) LTD, ZA
[85] 2024-06-05
[86] 2022-11-18 (PCT/ZA2022/050058)
[87] (WO2023/108179)
[30] ZA (2021/10056) 2021-12-07

[21] **3,240,221**
[13] A1
[51] **Int.Cl. A24F 40/90 (2020.01) H02J 50/20 (2016.01)**
[25] EN
[54] **A TRANSMITTER MODULE FOR RADIO FREQUENCY CHARGING**
[54] **MODULE EMETTEUR POUR CHARGE RADIOFREQUENCE**
[72] AL-AMIN, MOHAMMED, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-06-05
[86] 2022-12-08 (PCT/GB2022/053135)
[87] (WO2023/105234)
[30] GB (2117820.7) 2021-12-09

[21] **3,240,222**
[13] A1
[51] **Int.Cl. G01F 1/84 (2006.01) G01F 25/10 (2022.01)**
[25] EN
[54] **USING PARAMETERS OF SENSOR SIGNALS PROVIDED BY A SENSOR ASSEMBLY TO VERIFY THE SENSOR ASSEMBLY**
[54] **UTILISATION DE PARAMETRES DE SIGNAUX DE CAPTEUR FOURNIS PAR UN ENSEMBLE CAPTEUR POUR LA VERIFICATION DE L'ENSEMBLE CAPTEUR**
[72] RECKSIEDLER, ADAM, US
[72] DOWNING, BERT J., US
[71] MICRO MOTION, INC., US
[85] 2024-06-05
[86] 2021-12-06 (PCT/US2021/062068)
[87] (WO2023/107093)

[21] **3,240,223**
[13] A1
[51] **Int.Cl. C01B 3/02 (2006.01) C01B 3/24 (2006.01) C01B 3/32 (2006.01)**
[25] EN
[54] **DEVICE FOR THE PRODUCTION OF HYDROGEN AND CO2 FROM SUPPLIED HYDROCARBON AND WATER**
[54] **DISPOSITIF DE PRODUCTION D'HYDROGENE ET DE CO2 A PARTIR D'HYDROCARBURE ET D'EAU FOURNIS**
[72] SKOMSVOLD, AGE, NO
[71] HYPER ENERGY AUSTRALIA PTY LTD, AU
[85] 2024-06-05
[86] 2022-12-07 (PCT/NO2022/050284)
[87] (WO2023/106928)
[30] NO (20211480) 2021-12-08

[21] **3,240,224**
[13] A1
[51] **Int.Cl. H04B 7/04 (2017.01)**
[25] EN
[54] **VARIABLE-RATE TRUE-TIME DELAY FILTER**
[54] **FILTRE A RETARD A TEMPS REEL A DEBIT VARIABLE**
[72] KIESEL, GREGORY N., US
[72] GIBSON, CHARLES R., US
[71] VIASAT, INC., US
[85] 2024-06-05
[86] 2022-12-08 (PCT/US2022/052326)
[87] (WO2023/107654)
[30] US (63/287,509) 2021-12-08

[21] **3,240,225**
[13] A1
[51] **Int.Cl. C01G 55/00 (2006.01)**
[25] EN
[54] **LOW PRESSURE PROCESS FOR SYNTHESIS OF PT(PF3)4 INVOLVING A SOLUBLE INTERMEDIATE AND STORAGE OF OBTAINED PT(PF3)4**
[54] **PROCEDE BASSE PRESSION DE SYNTHESE DE PT(PF3)4 IMPLIQUANT UN INTERMEDIAIRE SOLUBLE ET UN STOCKAGE DE PT(PF3)4 OBTENU**
[72] NIKIFOROV, GRIGORY, US
[72] BLASCO, NICOLAS, FR
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/052139)
[87] (WO2023/107562)
[30] US (17/546,169) 2021-12-09

[21] **3,240,226**
[13] A1
[51] **Int.Cl. F01K 3/12 (2006.01)**
[25] EN
[54] **SYSTEM FOR STORING AND USING THERMAL ENERGY**
[54] **SYSTEME DE STOCKAGE ET D'UTILISATION D'ENERGIE THERMIQUE**
[72] KOSAMANA, BHASKARA, IN
[72] MAVURI, RAJESH, IN
[71] NUOVO PIGNONE TECNOLOGIE - S.R.L., IT
[85] 2024-06-06
[86] 2022-12-06 (PCT/EP2022/025554)
[87] (WO2023/104333)
[30] IT (102021000030965) 2021-12-09

[21] **3,240,233**
[13] A1
[51] **Int.Cl. B60P 1/28 (2006.01)**
[25] EN
[54] **TAIL EXTENSION FOR A TRUCK BED**
[54] **EXTENSION DE PARTIE ARRIERE POUR UNE PLATEFORME DE CAMION**
[72] LEE, ONE CHUL, US
[72] BROMENSHENKEL, TIMOTHY JAMES, US
[71] CATERPILLAR INC., US
[85] 2024-06-06
[86] 2022-11-23 (PCT/US2022/050826)
[87] (WO2023/107280)
[30] US (17/548,421) 2021-12-10

[21] **3,240,234**
[13] A1
[51] **Int.Cl. H04R 29/00 (2006.01) G10L 25/51 (2013.01) G10L 25/72 (2013.01) G10L 19/02 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONITORING AUDIO SIGNALS**
[54] **SYSTEME ET PROCEDE DE SURVEILLANCE DE SIGNAUX AUDIO**
[72] COTE, PHILIPPE, CA
[72] HOULE, ETIENNE, CA
[72] DALLAIRE, GUILLAUME, CA
[71] STINGRAY GROUP INC., CA
[85] 2024-06-06
[86] 2023-08-10 (PCT/IB2023/058097)
[87] (WO2024/033864)
[30] US (63/370,973) 2022-08-10

[21] **3,240,240**
[13] A1
[51] **Int.Cl. F25J 3/04 (2006.01)**
[25] EN
[54] **METHOD FOR THE CRYOGENIC SEPARATION OF AIR, AND AIR SEPARATION PLANT**
[54] **PROCEDE DE SEPARATION CRYOGENIQUE DE L'AIR ET INSTALLATION DE SEPARATION D'AIR**
[72] HECHT, THOMAS, DE
[72] SPORI, RALPH, DE
[72] LEHMACHER, AXEL, DE
[72] GOLUBEV, DIMITRI, DE
[72] HEINZ, PAUL, DE
[72] HANUSCH, FLORIAN, DE
[72] NOHLEN, THOMAS, DE
[71] LINDE GMBH, DE
[85] 2024-06-06
[86] 2022-11-17 (PCT/EP2022/025517)
[87] (WO2023/110142)
[30] EP (21020635.5) 2021-12-13

[21] **3,240,242**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01) B60L 53/64 (2019.01) B60L 58/12 (2019.01)**
[25] EN
[54] **MACHINE MANAGEMENT BASED ON BATTERY STATUS**
[54] **GESTION DE MACHINE REPOSANT SUR L'ETAT D'UNE BATTERIE**
[72] LANE, CAMERON T., US
[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US
[85] 2024-06-06
[86] 2022-11-22 (PCT/US2022/080307)
[87] (WO2023/114624)
[30] US (17/549,275) 2021-12-13

[21] **3,240,243**
[13] A1
[51] **Int.Cl. G06N 3/04 (2023.01) G06N 3/08 (2023.01)**
[25] EN
[54] **EXPLAINABLE MACHINE LEARNING BASED ON TIME-SERIES TRANSFORMATION**
[54] **APPRENTISSAGE AUTOMATIQUE EXPLICABLE REPOSANT SUR UNE TRANSFORMATION DE SERIES TEMPORELLES**
[72] MILLER, STEPHEN, US
[71] EQUIFAX INC., US
[85] 2024-06-06
[86] 2021-12-08 (PCT/US2021/072813)
[87] (WO2023/107134)

[21] **3,240,248**
[13] A1
[51] **Int.Cl. C11D 7/26 (2006.01) C11D 7/32 (2006.01)**
[25] EN
[54] **CLEANING FORMULATION**
[54] **FORMULATION DE NETTOYAGE**
[72] JIANG, QI, CN
[72] DAUGS, EDWARD D., US
[72] HE, MEIJIA, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-06
[86] 2021-12-14 (PCT/CN2021/137779)
[87] (WO2023/108400)

[21] **3,240,251**
[13] A1
[51] **Int.Cl. B01J 20/18 (2006.01) B01J 20/16 (2006.01)**
[25] EN
[54] **PURIFICATION OF ORGANIC SOLVENTS**
[54] **PURIFICATION DE SOLVANTS ORGANIQUES**
[72] JIANG, QI, CN
[72] QIAN, LINPING, CN
[72] ZHENG, GENGFENG, CN
[72] WANG, QIHAO, CN
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-06-06
[86] 2021-12-14 (PCT/CN2021/137785)
[87] (WO2023/108402)

[21] **3,240,252**
[13] A1
[25] EN
[54] **METHOD FOR INSTALLING A TERMINAL OF A WILDFIRE EARLY DETECTION SYSTEM**
[54] **PROCEDE D'INSTALLATION D'UN TERMINAL D'UN SYSTEME DE DETECTION PRECOCE D'INCENDIE DE FORET**
[72] BRINKSCHULTE, CARSTEN, DE
[72] BONIG, MARCO, DE
[71] DRYAD NETWORKS GMBH, DE
[85] 2024-06-06
[86] 2022-12-13 (PCT/EP2022/085711)
[87] (WO2023/110935)
[30] DE (10 2021 133 219.2) 2021-12-15

[21] **3,240,253**
[13] A1
[51] **Int.Cl. H02P 29/024 (2016.01)**
[25] EN
[54] **ELECTRIC MOTOR WITH A MOTOR TERMINAL BOX**
[54] **MOTEUR ELECTRIQUE DOTE D'UNE BOITE A BORNES DE MOTEUR**
[72] SUTTON, FELIX, CH
[72] SOMMER, PHILIPP, CH
[72] MARET, YANNICK, CH
[71] ABB SCHWEIZ AG, CH
[85] 2024-06-06
[86] 2022-11-29 (PCT/EP2022/083706)
[87] (WO2023/104593)
[30] EP (21213712.9) 2021-12-10

[21] **3,240,254**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-MESOTHELIN POLYPEPTIDES, PROTEINS, AND CHIMERIC ANTIGEN RECEPTORS**
[54] **POLYPEPTIDES ANTI-MESOTHELINE, PROTEINES ET RECEPTEURS ANTIGENIQUES CHIMERIQUES**
[72] PASTAN, IRA H., US
[72] ONDA, MASANORI, US
[72] HO, MITCHELL, US
[72] LIU, XIU-FEN, US
[72] BERA, TAPAN, US
[72] CHAKRABORTY, ANIRBAN, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2024-06-06
[86] 2022-12-16 (PCT/US2022/081766)
[87] (WO2023/114980)
[30] US (63/290,761) 2021-12-17

[21] **3,240,255**
[13] A1
[51] **Int.Cl. G06V 10/96 (2022.01) H04L 65/612 (2022.01) H04L 65/80 (2022.01)**
[25] EN
[54] **DEVICE AND METHOD FOR ASSIGNING VIDEO ANALYTICS TASKS TO COMPUTING DEVICES**
[54] **DISPOSITIF ET PROCEDE D'ATTRIBUTION DE TACHES D'ANALYSE VIDEO A DES DISPOSITIFS INFORMATIQUES**
[72] RUSSO, PIETRO, US
[72] HOFFMAN, HOWARD, US
[72] REBIEN, SVEN, CA
[72] ZAAG, BERT VAN DER, US
[71] MOTOROLA SOLUTIONS, INC., US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/052106)
[87] (WO2023/114066)
[30] US (17/644,512) 2021-12-15

[21] **3,240,256**
[13] A1
[51] **Int.Cl. H04M 3/523 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS RELATING TO MANAGING CUSTOMER WAIT TIMES IN CONTACT CENTERS**
[54] **SYSTEMES ET PROCEDES RELATIFS A LA GESTION DE TEMPS D'ATTENTE DE CLIENTS DANS DES CENTRES DE CONTACT**
[72] FRIIO, ANDREA, US
[71] GENESYS CLOUD SERVICES, INC., US
[85] 2024-06-06
[86] 2022-12-15 (PCT/US2022/052938)
[87] (WO2023/114357)
[30] US (17/551,844) 2021-12-15

[21] **3,240,259**
[13] A1
[51] **Int.Cl. C07C 2/60 (2006.01)**
[25] EN
[54] **COMBINED PROCESS FOR ALKYLATION OF LIGHT OLEFINS USING IONIC LIQUID CATALYSTS**
[54] **PROCEDE COMBINE D'ALKYLATION D'OLEFINES LEGERES A L'AIDE DE CATALYSEURS LIQUIDES IONIQUES**
[72] COLE, MATTHEW C., US
[72] WEBER, DOMINIC P., US
[72] GATTUPALLI, RAJESWAR R., US
[72] TIMKEN, HYE KYUNG, US
[72] LUO, HUPING, US
[72] CHANG, BONG KYU, US
[71] UOP LLC, US
[85] 2024-06-06
[86] 2022-12-09 (PCT/US2022/081261)
[87] (WO2023/114691)
[30] US (63/265,434) 2021-12-15

[21] **3,240,260**
[13] A1
[51] **Int.Cl. B25J 15/04 (2006.01) H02J 50/10 (2016.01) B25J 9/08 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD, AND DEVICE FOR DUST TOLERANT ROBOTIC INTERFACE**
[54] **SYSTEME, PROCEDE ET DISPOSITIF D'INTERFACE ROBOTIQUE RESISTANTE A LA POUSSIERE**
[72] KER, HEATHER, CA
[72] JESSEN, SEAN, CA
[72] KIRISCHIAN, VALERI, CA
[71] MACDONALD, DETTWILER AND ASSOCIATES INC., CA
[85] 2024-06-06
[86] 2022-12-20 (PCT/CA2022/051868)
[87] (WO2023/115207)
[30] US (63/291,603) 2021-12-20

[21] **3,240,261**
[13] A1
[25] EN
[54] **METHOD FOR DETERMINING THE POSITION OF A TERMINAL OF A WILDFIRE EARLY DETECTION SYSTEM**
[54] **PROCEDE DE DETERMINATION DE LA POSITION D'UN TERMINAL D'UN SYSTEME DE DETECTION PRECOCE D'INCENDIE DE FORET**
[72] BRINKSCHULTE, CARSTEN, DE
[72] BONIG, MARCO, DE
[71] DRYAD NETWORKS GMBH, DE
[85] 2024-06-06
[86] 2022-12-13 (PCT/EP2022/085710)
[87] (WO2023/110934)
[30] DE (10 2021 133 219.2) 2021-12-15

[21] **3,240,263**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **RAF KINASE INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE RAF KINASE ET LEURS METHODES D'UTILISATION**
[72] FLYNN, DANIEL L., US
[72] AHN, YU MI, US
[72] VOGETI, LAKSHMINARAYANA, US
[72] LE BOURDONNEC, BERTRAND, US
[71] DECIPHERA PHARMACEUTICALS, LLC, US
[85] 2024-06-06
[86] 2022-12-09 (PCT/US2022/081242)
[87] (WO2023/108108)
[30] US (63/287,873) 2021-12-09
[30] US (63/393,445) 2022-07-29

[21] **3,240,264**
[13] A1
[51] **Int.Cl. H01M 10/052 (2010.01) H01M 10/0568 (2010.01) C22B 3/02 (2006.01)**
[25] EN
[54] **METHOD FOR RECYCLING RECHARGEABLE BATTERIES AND RECHARGEABLE BATTERY PROCESSING SYSTEM**
[54] **PROCEDE DE RECYCLAGE DE BATTERIES RECHARGEABLES ET SYSTEME DE TRAITEMENT DE BATTERIES RECHARGEABLES**
[72] BUSSMANN, TILL, DE
[71] DUESENFELD GMBH, DE
[85] 2024-06-06
[86] 2022-04-27 (PCT/EP2022/061280)
[87] (WO2023/110167)
[30] EP (21214491.9) 2021-12-14

[21] **3,240,265**
[13] A1
[25] EN
[54] **METHOD FOR OPERATING A FOREST FIRE EARLY DETECTION SYSTEM**
[54] **PROCEDE DE FONCTIONNEMENT D'UN SYSTEME DE DETECTION PRECOCE D'INCENDIE DE FORET**
[72] BRINKSCHULTE, CARSTEN, DE
[72] BONIG, MARCO, DE
[71] DRYAD NETWORKS GMBH, DE
[85] 2024-06-06
[86] 2022-12-13 (PCT/EP2022/085709)
[87] (WO2023/110933)
[30] DE (10 2021 133 219.2) 2021-12-15

[21] **3,240,266**
[13] A1
[51] **Int.Cl. C02F 1/36 (2006.01)**
[25] EN
[54] **APPARATUSES AND SYSTEMS FOR FRESHWATER PRODUCTION AND BRINE WASTE RECOVERY AND METHODS THEREOF**
[54] **APPAREILS ET SYSTEMES DESTINES A LA PRODUCTION D'EAU DOUCE ET A LA RECUPERATION DE DECHETS DE SAUMURE ET PROCEDES ASSOCIES**
[72] MILLER, ROBERT E., US
[72] MILLER, SCOTT E., US
[72] KOONTZ, FRANKLIN N., US
[71] MAGE LLC, US
[85] 2024-06-06
[86] 2022-12-08 (PCT/US2022/052248)
[87] (WO2023/107616)
[30] US (63/288,010) 2021-12-10
[30] US (18/062,786) 2022-12-07
[30] US (17/671,831) 2022-02-15
[30] US (17/699,409) 2022-03-21

[21] **3,240,267**
[13] A1
[51] **Int.Cl. B24B 5/01 (2006.01) B24B 5/04 (2006.01)**
[25] EN
[54] **A MACHINE TOOL FOR MACHINING WORKPIECES AND METHODS OF OPERATION THEREOF**
[54] **MACHINE-OUTIL POUR L'USINAGE DE PIECES DE FABRICATION ET PROCEDES DE COMMANDE ASSOCIES**
[72] NEWISS, PHILIP, GB
[71] FIVES LANDIS LIMITED, GB
[85] 2024-06-06
[86] 2022-12-12 (PCT/GB2022/053175)
[87] (WO2023/111529)
[30] GB (2118230.8) 2021-12-16

[21] **3,240,268**
[13] A1
[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) A61K 31/5377 (2006.01)**
[25] EN
[54] **5,6,7,8-TETRAHYDRO-2,6-NAPHTHYRIDINE DERIVATIVES AS CANCER THERAPEUTICS**
[54] **DERIVES DE 5,6,7,8-TETRAHYDRO-2,6-NAPHTYRIDINE UTILISES EN TANT QU'AGENTS THERAPEUTIQUES CONTRE LE CANCER**
[72] BHAVAR, PRASHANT KASHINATH, US
[72] KSHIRSAGAR, ANUJ RAMESH, IN
[72] SARMA, PARTHA PRATIM, IN
[72] SURAMPUDI, UDAY KUMAR, US
[71] VRISE THERAPEUTICS, INC., US
[85] 2024-06-06
[86] 2022-12-09 (PCT/IB2022/062015)
[87] (WO2023/105491)
[30] IN (202141057591) 2021-12-10

[21] **3,240,269**
[13] A1
[51] **Int.Cl. F28F 13/12 (2006.01)**
[25] EN
[54] **VERTICAL HEAT RECOVERY SYSTEM**
[54] **SYSTEME DE RECUPERATION DE CHALEUR VERTICAL**
[72] GARCIA MELICO, JOSE ALBERTO, PT
[71] ZYPHO, S.A., PT
[85] 2024-06-06
[86] 2022-09-23 (PCT/IB2022/059036)
[87] (WO2023/111701)
[30] PT (117634) 2021-12-14

[21] **3,240,270**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 16/30 (2006.01)**
[25] EN
[54] **ANTI-CD38 BINDING MOLECULES AND USES THEREOF**
[54] **MOLECULES DE LIAISON ANTI-CD38 ET LEURS UTILISATIONS**
[72] LI, KEYU, US
[72] HINTON, PAUL R., US
[72] BALIGA, RAMESH, US
[72] KEYT, BRUCE ALAN, US
[71] IGM BIOSCIENCES, INC., US
[85] 2024-06-06
[86] 2023-02-03 (PCT/US2023/061932)
[87] (WO2023/150677)
[30] US (63/306,434) 2022-02-03
[30] US (63/370,025) 2022-08-01
[30] US (63/383,736) 2022-11-15

[21] **3,240,271**
[13] A1
[51] **Int.Cl. C10G 65/04 (2006.01)**
[25] EN
[54] **PRODUCING HYDROCARBONS FROM ORGANIC MATERIAL OF BIOLOGICAL ORIGIN**
[54] **PRODUCTION D'HYDROCARBURES A PARTIR D'UN MATERIAU ORGANIQUE D'ORIGINE BIOLOGIQUE**
[72] HOVI, MERI, FI
[72] SIPPOLA, VAINO, FI
[72] AALTO, PEKKA, FI
[72] MYLLYOJA, JUKKA, FI
[72] LAMMINPAA, KAISA, FI
[72] RIEKKOLA, TIINA, FI
[72] PASANEN, ANTTI, FI
[72] LINDQVIST, PETRI, FI
[72] TOPPINEN, SAMI, FI
[72] KYLLONEN, PIA, FI
[71] NESTE OYJ, FI
[85] 2024-06-06
[86] 2022-12-30 (PCT/FI2022/050887)
[87] (WO2023/126588)
[30] FI (20216368) 2021-12-30
[30] FI (20216369) 2021-12-30
[30] FI (20216372) 2021-12-30
[30] FI (20216374) 2021-12-30
[30] FI (20216376) 2021-12-30

[21] **3,240,274**
[13] A1
[51] **Int.Cl. A61B 5/021 (2006.01) A61B 5/1455 (2006.01)**
[25] EN
[54] **PHOTOPLETHYSMOGRAPHY-BASED BLOOD PRESSURE MONITORING DEVICE**
[54] **DISPOSITIF DE SURVEILLANCE DE PRESSION ARTERIELLE PAR PHOTOPLETHYSMOGRAPHIE**
[72] LOH, JEFFREY THOMAS, US
[71] KL TECHNOLOGIES LLC, US
[85] 2024-06-06
[86] 2023-01-15 (PCT/US2023/060701)
[87] (WO2023/141404)
[30] US (63/301,106) 2022-01-20

[21] **3,240,275**
[13] A1
[51] **Int.Cl. A23G 1/44 (2006.01) A23L 11/50 (2021.01) A23C 11/10 (2021.01) A23G 1/32 (2006.01) A23G 1/48 (2006.01) A23G 1/52 (2006.01) A23J 1/14 (2006.01) A23J 3/14 (2006.01)**
[25] EN
[54] **A CHOCOLATE PRODUCT COMPRISING A MILK ANALOGUE PRODUCT**
[54] **PRODUIT DE CHOCOLAT COMPRENANT UN PRODUIT ANALOGUE AU LAIT**
[72] GERMAN, JAMEY, GB
[72] CHAVEZ MONTES, BRUNO EDGAR, CH
[72] CELIGUETA TORRES, ISABEL, GB
[71] SOCIETE DES PRODUITS NESTLE S.A., CH
[85] 2024-06-06
[86] 2022-11-15 (PCT/EP2022/081988)
[87] (WO2023/110263)
[30] EP (21215319.1) 2021-12-16

[21] **3,240,276**
[13] A1
[51] **Int.Cl. C10G 65/04 (2006.01) C10G 65/02 (2006.01) C10L 1/08 (2006.01)**
[25] EN
[54] **MIDDLE DISTILLATE FUEL FROM ORGANIC MATERIAL OF BIOLOGICAL ORIGIN**
[54] **CARBURANT DE DISTILLAT MOYEN A PARTIR D'UN MATERIAU ORGANIQUE D'ORIGINE BIOLOGIQUE**
[72] KIISKI, ULLA, FI
[72] VUORIO, EERIKA, FI
[72] SAIKKONEN, PIRJO, FI
[72] LAMMINPAA, KAISA, FI
[72] SILVONEN, PETRO, FI
[72] HOVI, MERI, FI
[71] NESTE OYJ, FI
[85] 2024-06-06
[86] 2022-12-30 (PCT/FI2022/050885)
[87] (WO2023/126586)
[30] FI (20216369) 2021-12-30
[30] FI (20216373) 2021-12-30

[21] **3,240,277**
[13] A1
[51] **Int.Cl. C10G 65/04 (2006.01)**
[25] EN
[54] **PRODUCING HYDROCARBONS FROM ORGANIC MATERIAL OF BIOLOGICAL ORIGIN**
[54] **PRODUCTION D'HYDROCARBURES A PARTIR D'UN MATERIAU ORGANIQUE D'ORIGINE BIOLOGIQUE**
[72] HOVI, MERI, FI
[72] SIPPOLA, VAINO, FI
[72] AALTO, PEKKA, FI
[72] MYLLYOJA, JUKKA, FI
[72] LAMMINPAA, KAISA, FI
[72] RIEKKOLA, TIINA, FI
[72] PASANEN, ANTTI, FI
[72] LINDQVIST, PETRI, FI
[72] TOPPINEN, SAMI, FI
[72] KYLLONEN, PIA, FI
[72] SANDBERG, KATI, FI
[72] ALHALABI, TAMER, FI
[72] KIISKI, ULLA, FI
[72] VUORIO, EERIKA, FI
[72] KOSKINEN, ALLI, FI
[72] VILJA, JESSE, FI
[72] NYMAN, OSCAR, FI
[71] NESTE OYJ, FI
[85] 2024-06-06
[86] 2022-12-30 (PCT/FI2022/050881)
[87] (WO2023/126582)
[30] FI (20216368) 2021-12-30
[30] FI (20216369) 2021-12-30
[30] FI (20216372) 2021-12-30
[30] FI (20216374) 2021-12-30
[30] FI (20216376) 2021-12-30

[21] **3,240,278**
[13] A1
[51] **Int.Cl. H01J 35/18 (2006.01) H05G 1/52 (2006.01)**
[25] EN
[54] **X-RAY TUBE WITH REDUCED ATTENUATION**
[54] **TUBE A RAYONS X A ATTENUATION REDUITE**
[72] CANAZON, JOHN, US
[71] CANAZON, JOHN, US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/052146)
[87] (WO2023/107565)
[30] US (63/287,738) 2021-12-09

[21] **3,240,279**
[13] A1
[51] **Int.Cl. G06Q 20/40 (2012.01) G06F 21/30 (2013.01) G06F 21/31 (2013.01) G06F 21/45 (2013.01)**
[25] EN
[54] **IDENTITY VERIFICATION UTILIZING UPLOADED CONTENT AND TRUST SCORE**
[54] **VERIFICATION D'IDENTITE UTILISANT UN CONTENU TELECHARGE ET UN SCORE DE CONFIANCE**
[72] ALEXANDER, RYAN, US
[71] PROVE IDENTITY, INC., US
[85] 2024-06-06
[86] 2022-12-06 (PCT/US2022/052028)
[87] (WO2023/107500)
[30] US (63/286,951) 2021-12-07
[30] US (18/076,074) 2022-12-06

[21] **3,240,280**
[13] A1
[51] **Int.Cl. G01N 33/28 (2006.01)**
[25] EN
[54] **ELECTRIC POWER ASSET HEALTH MONITORING**
[54] **SURVEILLANCE DE LA SANTE D'UN BIEN ELECTRIQUE**
[72] BUKYA, SRI KRISHNA, US
[72] CRUZ, EMILIO MORALES, US
[72] ZRIBI, ANIS, US
[72] PELLETREAU, ANDRE, US
[72] DONEGAN, PAUL, GB
[72] BROWN, COLIN, GB
[71] QUALITROL COMPANY LLC, US
[85] 2024-06-06
[86] 2022-12-05 (PCT/US2022/080939)
[87] (WO2023/107900)
[30] US (63/286,519) 2021-12-06

[21] **3,240,282**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 10/10 (2023.01) G06Q 20/20 (2012.01) G06N 20/00 (2019.01) G06N 3/08 (2023.01)**
[25] EN
[54] **TASK PROCESS ANALYSIS METHOD**
[54] **PROCEDE D'ANALYSE DE PROCESSUS DE TACHE**
[72] KWON, HO GEUN, KR
[72] SHIN, HYUN JOON, KR
[71] SHIN, HYUN JOON, KR
[85] 2024-06-06
[86] 2022-11-08 (PCT/KR2022/017430)
[87] (WO2023/106650)
[30] KR (10-2021-0173317) 2021-12-06
[30] KR (10-2022-0071613) 2022-06-13

[21] **3,240,283**
[13] A1
[51] **Int.Cl. F24B 3/00 (2006.01) A47J 33/00 (2006.01) F24B 1/181 (2006.01) F24B 1/182 (2006.01)**
[25] EN
[54] **STAND-ALONE HEATING APPARATUS**
[54] **APPAREIL DE CHAUFFAGE AUTONOME**
[72] POULIN, SYLVIE, CA
[72] ARCHAMBAULT, YVES, CA
[71] POULIN, SYLVIE, CA
[71] ARCHAMBAULT, YVES, CA
[85] 2024-06-06
[86] 2023-01-03 (PCT/CA2023/050001)
[87] (WO2023/130179)
[30] US (63/296,950) 2022-01-06

[21] **3,240,284**
[13] A1
[51] **Int.Cl. E21F 15/00 (2006.01) E21F 17/103 (2006.01)**
[25] EN
[54] **DEVICE FOR ACCOMMODATING ROCK DEFORMATIONS IN UNDERGROUND MINING, PROCE SS FOR PRODUCING A FASTENING LAYER SUITABLE FOR ACCOMMODATING ROCK DEFO RMATIONS IN UNDERGROUND MINING AND USE OF A POLYSTYRENE COMPRESSION ELEMENT, AND PROCESS FOR PRODUCING SUCH A FASTENING LAYER**
[54] **STRUCTURE POUR ABSORBER DES DEFORMATIONS ROCHEUSES DANS UNE EXPLOITATION MINIERE SOUTERRAINE, PROCEDE DE PRODUCTION D'UNE COUCHE DE RENFORCEMENT APPROPRIEE POUR ABSORBER DES DEFORMATIONS ROCHEUSES DANS UNE EXPLOITATION MINIERE SOUTERRAINE, ET UTILISATION D'UN ELEMENT DE COMPRESSION DE POLYSTYRENE ET PROCEDE DE PRODUCTION D'UNE TELLE STRUCTUR**
[72] ENTFELLNER, MANUEL, AT
[71] IMPLENIA SCHWEIZ AG, CH
[85] 2024-06-06
[86] 2022-12-06 (PCT/EP2022/084538)
[87] (WO2023/104772)
[30] EP (21213577.6) 2021-12-10

[21] **3,240,285**
[13] A1
[51] **Int.Cl. H04W 12/06 (2021.01) H04W 76/10 (2018.01)**
[25] EN
[54] **SUPPORTING REMOTE USER EQUIPMENT AUTHENTICATION VIA RELAY USER EQUIPMENT**
[54] **PRISE EN CHARGE D'AUTHENTIFICATION D'EQUIPEMENT UTILISATEUR DISTANT PAR L'INTERMEDIAIRE D'UN EQUIPEMENT UTILISATEUR RELAIS**
[72] FU, ZHANG, SE
[72] WIFVESSON, MONICA, SE
[72] SEDLACEK, IVO, CZ
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2024-06-06
[86] 2022-08-23 (PCT/IB2022/057906)
[87] (WO2023/126696)
[30] US (63/294,920) 2021-12-30

[21] **3,240,286**
[13] A1
[51] **Int.Cl. G06T 7/12 (2017.01) G06N 3/08 (2023.01)**
[25] EN
[54] **COMPUTER VISION SYSTEMS AND METHODS FOR SEGMENTING AND CLASSIFYING BUILDING COMPONENTS, CONTENTS, MATERIALS, AND ATTRIBUTES**
[54] **SYSTEMES ET PROCEDES DE VISION PAR ORDINATEUR POUR LA SEGMENTATION ET LA CLASSIFICATION DE COMPOSANTS, DE CONTENUS, DE MATERIAUX ET D'ATTRIBUTS DE CONSTRUCTION**
[72] FREI, MATTHEW DAVID, US
[72] SHANKAR, RAVI, US
[72] WARREN, SAM, US
[72] MCKEE, CAROLINE NATASHA, US
[72] DEARTH, JARED, US
[71] INSURANCE SERVICES OFFICE, INC., US
[85] 2024-06-06
[86] 2022-12-15 (PCT/US2022/053008)
[87] (WO2023/114398)
[30] US (63/289,726) 2021-12-15

[21] **3,240,287**
[13] A1
[51] **Int.Cl. C07K 14/78 (2006.01)**
[25] EN
[54] **LMNA GENE EXPRESSION FOR TREATMENT OF LAMINOPATHIES**
[54] **EXPRESSION DE GENE LMNA POUR LE TRAITEMENT DE LAMINOPATHIES**
[72] ESCHENHAGEN, THOMAS, DE
[72] BEHRENS, CHARLOTTA, DE
[72] ULMER, BARBEL, CH
[72] FREESE, JULIA, DE
[72] BRAREN, INGKE, DE
[72] CARRIER, LUCIE, DE
[71] UNIVERSITATSKLINIKUM HAMBURG-EPPENDORF, DE
[85] 2024-06-06
[86] 2022-12-14 (PCT/EP2022/085962)
[87] (WO2023/111084)
[30] EP (21214769.8) 2021-12-15

[21] **3,240,289**
[13] A1
[25] EN
[54] **EMBEDDED ELECTRODE ARRAY PLATE**
[54] **PLAQUE DE RESEAU D'ELECTRODES INTEGREE**
[72] CURLEY, J. LOWRY, US
[72] ROUNTREE, COREY, US
[71] AXOSIM, INC., US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/081088)
[87] (WO2023/108001)
[30] US (63/286,959) 2021-12-07

[21] **3,240,290**
[13] A1
[51] **Int.Cl. H04N 23/60 (2023.01) H04N 23/00 (2023.01)**
[25] EN
[54] **IMAGING SYSTEM FOR PRESENTING FRONT IMAGE AND BACK IMAGE OF A SUBJECT**
[54] **SYSTEME D'IMAGERIE POUR PRESENTER L'IMAGE DE FACE ET L'IMAGE DE DOS D'UN SUJET**
[72] DILAN, VASILE, FR
[71] DILAN, VASILE, FR
[85] 2024-06-06
[86] 2023-01-20 (PCT/FR2023/050078)
[87] (WO2023/139337)
[30] FR (FR2200466) 2022-01-20

[21] **3,240,291**
[13] A1
[51] **Int.Cl. C07C 41/34 (2006.01) C07C 43/23 (2006.01) C10G 1/04 (2006.01) C10G 21/16 (2006.01)**
[25] EN
[54] **SUPERCRITICAL ETHYLENE EXTRACTION PROCESS FOR SELECTIVELY RECOVERING PHENOLIC COMPOUNDS FROM BIO-CRUDE AND/OR BIO-OIL**
[54] **PROCEDE D'EXTRACTION D'ETHYLENE SUPERCRITIQUE POUR LA RECUPERATION SELECTIVE DE COMPOSES PHENOLIQUES A PARTIR DE BIO-BRUT ET/OU DE BIO-HUILE**
[72] CARPENTER, MICHAEL, US
[72] MANTE, OFEI D., US
[72] WEINER, JOSEPH MICHAEL, US
[71] RESEARCH TRIANGLE INSTITUTE, US
[85] 2024-06-06
[86] 2022-12-16 (PCT/US2022/081783)
[87] (WO2023/122495)
[30] US (63/292,626) 2021-12-22

[21] **3,240,292**
[13] A1
[51] **Int.Cl. C22B 1/02 (2006.01) C22B 3/08 (2006.01) C22B 26/12 (2006.01)**
[25] EN
[54] **OXIDATIVE AND REDUCTIVE LEACHING METHODS**
[54] **PROCEDES DE LIXIVIATION OXYDATIVE ET REDUCTRICE**
[72] SMITH, VINCENT, ZA
[72] GERLACH, TILL, DE
[72] MULLER, BERNARD, ZA
[72] ROHDE, WOLFGANG, DE
[72] BORN, NILS-OLOF JOACHIM, DE
[72] SCHIERLE-ARNDT, KERSTIN, DE
[72] JABLONKA, MARK, IL
[72] SYRMA, ALEX, IL
[71] BASF SE, DE
[85] 2024-06-06
[86] 2022-12-06 (PCT/EP2022/084662)
[87] (WO2023/104830)
[30] EP (21212957.1) 2021-12-07

[21] **3,240,293**
[13] A1
[51] **Int.Cl. F17C 3/02 (2006.01)**
[25] FR
[54] **SYSTEM FOR INJECTING A GAS INTO A STORAGE TANK**
[54] **SYSTEME D'INJECTION D'UN GAZ DANS UNE CUVE DE STOCKAGE**
[72] ORLANDI, EZEQUIEL, FR
[71] GAZTRANSPORT ET TECHNIGAZ, FR
[85] 2024-06-06
[86] 2022-12-19 (PCT/FR2022/052414)
[87] (WO2023/118713)
[30] FR (2114223) 2021-12-22

[21] **3,240,294**
[13] A1
[51] **Int.Cl. C08G 63/181 (2006.01) C08G 63/50 (2006.01) C08G 63/672 (2006.01) C08G 63/78 (2006.01)**
[25] EN
[54] **PROCESS FOR THE PRODUCTION OF POLYESTER (CO)POLYMERS**
[54] **PROCESSUS DE PRODUCTION DE (CO)POLYMERES DE POLYESTER**
[72] WANG, BING, NL
[72] GRUTER, GERARDUS JOHANNES MARIA, NL
[72] VAN PUTTEN, ROBERT-JAN, NL
[72] WEINLAND, DANIEL HERBERT, NL
[72] BOTTEGA PERGHER, BRUNO, NL
[71] AVANTIUM KNOWLEDGE CENTRE B.V., NL
[85] 2024-06-06
[86] 2022-12-22 (PCT/EP2022/087423)
[87] (WO2023/118407)
[30] EP (21217721.6) 2021-12-24

[21] **3,240,295**
[13] A1
[51] **Int.Cl. A61B 17/122 (2006.01) A61B 17/128 (2006.01)**
[25] EN
[54] **A LIGATING CLIP FOR CONTINUOUS FIRING**
[54] **CLIP DE LIGATURE POUR UNE INJECTION CONTINUE**
[72] SHI, LEI, CN
[72] HUANG, HONGJING, CN
[72] CHEN, XIONGQUAN, CN
[72] MA, YANLI, CN
[72] CHEN, XIAORONG, CN
[72] CHEN, YUZHU, CN
[72] WENG, YAXUE, CN
[72] MEI, DONGQIU, CN
[71] HANGZHOU SUNSTONE TECHNOLOGY CO., LTD., CN
[85] 2024-06-06
[86] 2022-07-14 (PCT/CN2022/105689)
[87] (WO2023/178890)
[30] CN (202210297955.2) 2022-03-24

[21] **3,240,296**
[13] A1
[51] **Int.Cl. A61N 1/378 (2006.01) H02N 1/04 (2006.01)**
[25] EN
[54] **CONVERTER FOR POWER SUPPLY OF MEDICAL DEVICES**
[54] **CONVERTISSEUR POUR ALIMENTATION DE DISPOSITIFS MEDICAUX**
[72] SIORES, ELIAS, GR
[71] SIORES, ELIAS, GR
[85] 2024-06-06
[86] 2022-12-14 (PCT/GR2022/000071)
[87] (WO2023/111603)
[30] GR (20210100876) 2021-12-14

[21] **3,240,297**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/28 (2006.01)**
[25] EN
[54] **DLK1 ANTIBODIES AND METHODS OF TREATING CANCER**
[54] **ANTICORPS DLK1 ET METHODES DE TRAITEMENT DU CANCER**
[72] SLAMON, DENNIS, US
[72] MCDERMOTT, MARTINA, US
[72] O'BRIEN, NEIL A., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/052135)
[87] (WO2023/107560)
[30] US (63/286,896) 2021-12-07

[21] **3,240,298**
[13] A1
[51] **Int.Cl. A61C 19/05 (2006.01)**
[25] FR
[54] **INTER-ARCH COMPONENT (IAC), USE OF SUCH AN IAC, AND METHOD FOR PRODUCING AN INTRAORAL PROTECTOR (IOP) WITH SUCH AN IAC**
[54] **PIECE INTER-ARCADES (PIA), UTILISATION D'UNE TELLE PIA ET PROCEDE DE FABRICATION D'UNE PROTECTION INTRA-BUCCALE (PIB) AVEC UNE TELLE PIA**
[72] POISSON, PHILIPPE, FR
[71] UNIVERSITE DE BORDEAUX, FR
[71] CENTRE HOSPITALIER UNIVERSITAIRE DE BORDEAUX, FR
[85] 2024-06-06
[86] 2022-12-16 (PCT/FR2022/052392)
[87] (WO2023/111479)
[30] FR (FR2113793) 2021-12-17

[21] **3,240,299**
[13] A1
[51] **Int.Cl. H01M 8/021 (2016.01)**
[25] EN
[54] **STAINLESS STEEL FOR FUEL CELL SEPARATOR AND MANUFACTURING METHOD THEREOF**
[54] **ACIER INOXYDABLE POUR SEPARATEUR DE PILE A COMBUSTIBLE ET SON PROCEDE DE FABRICATION**
[72] KIM, KWANGMIN, KR
[72] KIM, DONGHOON, KR
[72] SEO, BOSUNG, KR
[72] KIM, JONGHEE, KR
[71] POSCO CO., LTD, KR
[85] 2024-06-06
[86] 2022-12-14 (PCT/KR2022/020356)
[87] (WO2023/121132)
[30] KR (10-2021-0183089) 2021-12-20

[21] **3,240,300**
[13] A1
[51] **Int.Cl. B01D 46/00 (2022.01) B01D 53/02 (2006.01)**
[25] EN
[54] **CO2 CAPTURE USING CARBONATE SORBENTS**
[54] **CAPTURE DE CO2 A L'AIDE DE SORBANTS CARBONATES**
[72] GU, ALAN YALUN, US
[72] DONG, HENG, US
[72] DOBELLE, LEOPOLD, US
[72] CID, CLEMENT A., US
[72] HOFFMANN, MICHAEL R., US
[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
[85] 2024-06-06
[86] 2022-12-09 (PCT/US2022/052346)
[87] (WO2023/107668)
[30] US (63/287,617) 2021-12-09

[21] **3,240,301**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) C07K 16/28 (2006.01)**
[25] EN
[54] **CDH17 ANTIBODIES AND METHODS OF TREATING CANCER**
[54] **ANTICORPS CDH17 ET METHODES DE TRAITEMENT DU CANCER**
[72] SLAMON, DENNIS, US
[72] MCDERMOTT, MARTINA, US
[72] O'BRIEN, NEIL A., US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/052132)
[87] (WO2023/107558)
[30] US (63/286,894) 2021-12-07
[30] US (63/349,258) 2022-06-06

[21] **3,240,302**
[13] A1
[51] **Int.Cl. A61K 8/31 (2006.01) A61K 8/37 (2006.01) A61K 36/47 (2006.01) A61K 36/889 (2006.01) A61P 27/02 (2006.01) A61P 27/14 (2006.01)**
[25] FR
[54] **TOPICAL COMPOSITION AND APPLICATOR THEREFOR FOR RELIEVING CHALAZION**
[54] **COMPOSITION TOPIQUE ET SON APPLICATEUR, DESTINES A SOULAGER LE CHALAZION**
[72] LEBRETON, LUC, FR
[71] LABORATOIRES THEA, FR
[85] 2024-06-06
[86] 2022-12-23 (PCT/EP2022/087784)
[87] (WO2023/118591)
[30] FR (FR2114348) 2021-12-23

[21] **3,240,303**
[13] A1
[51] **Int.Cl. G01N 29/265 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN AND RELATING TO ULTRASOUND PROBES**
[54] **AMELIORATIONS APPORTEES A DES SONDES ULTRASONORES ET SE RAPPORTANT A CES DERNIERES**
[72] VITHANAGE, RANDIKA KOSALA WATHAVANA, GB
[72] MACLEOD, CHARLES NORMAN, GB
[72] LINES, DAVID IAN ARTHUR, GB
[71] CAVENDISH NUCLEAR LIMITED, GB
[85] 2024-06-06
[86] 2022-12-22 (PCT/GB2022/053360)
[87] (WO2023/118879)
[30] GB (2118780.2) 2021-12-22

[21] **3,240,304**
[13] A1
[51] **Int.Cl. A23J 1/14 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE LEGUME PROTEIN**
[54] **PROTEINE DE LEGUMINEUSE SOLUBLE DANS L'EAU**
[72] REINS, NICO, DE
[71] EMSLAND-STARKE GESELLSCHAFT MIT BESCHRANKETER HAFTUNG, DE
[85] 2024-06-06
[86] 2022-12-12 (PCT/DE2022/100943)
[87] (WO2023/104250)
[30] DE (20 2021 106 752.7) 2021-12-10

[21] **3,240,307**
[13] A1
[51] **Int.Cl. H01M 10/052 (2010.01) H01M 10/0562 (2010.01) H01M 50/431 (2021.01) C01B 25/14 (2006.01)**
[25] EN
[54] **SOLID MATERIAL COMPRISING LI, MG, P, S AND HALOGEN ELEMENTS**
[54] **MATERIAU SOLIDE COMPRENANT DES ELEMENTS LI, MG, P, S ET HALOGENE**
[72] EMERY, ANTOINE, BE
[72] BRAIDA, MARC-DAVID, FR
[72] LE MERCIER, THIERRY, FR
[72] MARZARI, NICOLA, CH
[72] MUY, SOKSEIHA, CH
[72] ERCOLE, LORIS, CH
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-06-06
[86] 2022-12-12 (PCT/EP2022/085278)
[87] (WO2023/110697)
[30] EP (21306819.0) 2021-12-17

[21] **3,240,308**
[13] A1
[51] **Int.Cl. C10M 169/04 (2006.01)**
[25] EN
[54] **MOTOR AND GEARBOX FLUID FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS DE FLUIDE POUR MOTEUR ET BOITE DE VITESSE ET LEURS UTILISATIONS**
[72] GRAVES, SCOTT, US
[72] ZHANG, WENYANG, US
[72] HONG, JIAZHENG, US
[72] LAN, HAI, US
[72] SILVA RODRIGUEZ, DIEGO A., US
[72] BELLEMARE, ERIC, US
[72] THIBAULT, ERIC, US
[71] TESLA, INC., US
[85] 2024-06-06
[86] 2023-01-05 (PCT/US2023/010203)
[87] (WO2023/133200)
[30] US (63/296,959) 2022-01-06

[21] **3,240,309**
[13] A1
[51] **Int.Cl. E02F 9/28 (2006.01)**
[25] EN
[54] **LATCHING ASSEMBLY FOR GROUND ENGAGING TOOLS**
[54] **ENSEMBLE DE VERROUILLAGE POUR OUTILS DE MISE EN PRISE AVEC LE SOL**
[72] TAN, JIA HOU, MY
[72] LOWRY, DAMIAN WILLIAM, AU
[72] DENNIS, NEIL ROBERT, AU
[71] TALON ENGINEERING SDN BHD, MY
[85] 2024-06-06
[86] 2022-12-09 (PCT/AU2022/051479)
[87] (WO2023/115103)
[30] AU (2021904194) 2021-12-22

[21] **3,240,311**
[13] A1
[51] **Int.Cl. H01M 10/052 (2010.01) H01M 10/0562 (2010.01) H01M 50/431 (2021.01) C01B 25/14 (2006.01)**
[25] EN
[54] **SOLID MATERIAL COMPRISING LI, MG, P, S AND HALOGEN ELEMENTS**
[54] **MATERIAU SOLIDE COMPRENANT DES ELEMENTS LI, MG, P, S ET HALOGENE**
[72] EMERY, ANTOINE, BE
[72] BRAIDA, MARC-DAVID, FR
[72] LE MERCIER, THIERRY, FR
[72] MARZARI, NICOLA, CH
[72] MUY, SOKSEIHA, CH
[72] ERCOLE, LORIS, CH
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-06-06
[86] 2022-12-14 (PCT/EP2022/085960)
[87] (WO2023/111083)
[30] EP (21306820.8) 2021-12-17

[21] **3,240,315**
[13] A1
[51] **Int.Cl. C08J 11/12 (2006.01)**
[25] EN
[54] **PYROLYSIS PROCESS FOR THE PRODUCTION OF A PYROLYSIS OIL SUITABLE FOR CLOSED LOOP RECYCLING, RELATED APPARATUS, PRODUCT AND USE THEREOF**
[54] **PROCEDE DE PYROLYSE DESTINE A LA PRODUCTION D'UNE HUILE DE PYROLYSE APPROPRIEE POUR UN RECYCLAGE EN BOUCLE FERMEE, APPAREIL ASSOCIE, PRODUIT ET UTILISATION ASSOCIES**
[72] FELISARI, RICCARDO, IT
[72] GALEOTTI, ARMANDO, IT
[72] NODARI, MIRCO, IT
[72] BONACINI, FRANCESCO, IT
[71] VERSALIS S.P.A., IT
[85] 2024-06-06
[86] 2022-12-27 (PCT/IB2022/062800)
[87] (WO2023/126825)
[30] IT (102021000033053) 2021-12-30

[21] **3,240,316**
[13] A1
[51] **Int.Cl. C25B 3/03 (2021.01) C25B 1/23 (2021.01) C25B 3/25 (2021.01) C25B 3/26 (2021.01) C25B 9/23 (2021.01) C25B 9/70 (2021.01) C25B 9/75 (2021.01) C25B 9/77 (2021.01) C25B 13/02 (2006.01) C25B 15/08 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ETHYLENE PRODUCTION**
[54] **SYSTEMES ET PROCEDES DE PRODUCTION D'ETHYLENE**
[72] KASHI, AJAY R., US
[72] BUCKLEY, AYA K., US
[72] MA, SICHAO, US
[72] KUHL, KENDRA P., US
[72] HUNEGNAW, SARA, US
[72] CAVE, ETOSHA R., US
[72] STEVIC, LUKA, US
[71] TWELVE BENEFIT CORPORATION, US
[85] 2024-06-06
[86] 2022-12-08 (PCT/US2022/081209)
[87] (WO2023/239426)
[30] US (63/265,144) 2021-12-08

[21] **3,240,317**
[13] A1
[51] **Int.Cl. H01B 1/02 (2006.01) H01B 3/12 (2006.01) H01B 13/00 (2006.01)**
[25] EN
[54] **COATED OVERHEAD CONDUCTOR**
[54] **CONDUCTEUR AERIEN REVETU**
[72] BURDA, MAREK DARIUSZ, GB
[71] SOUTHWIRE COMPANY, LLC, US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/081091)
[87] (WO2023/108004)
[30] US (63/286,852) 2021-12-07

[21] **3,240,318**
[13] A1
[51] **Int.Cl. C12N 5/077 (2010.01) C12Q 1/6881 (2018.01) A61K 35/32 (2015.01)**
[25] EN
[54] **CELLULAR COMPOSITION AND USES THEREOF**
[54] **COMPOSITION CELLULAIRE ET SES UTILISATIONS**
[72] ZHENG, MING-HAO, AU
[72] CANNON, MONIQUE, AU
[71] ORTHOCELL LIMITED, AU
[85] 2024-06-06
[86] 2022-12-02 (PCT/AU2022/051442)
[87] (WO2023/102594)
[30] US (17/543,491) 2021-12-06

[21] **3,240,320**
[13] A1
[51] **Int.Cl. G06F 21/62 (2013.01) H04L 9/40 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FACILITATING PRIVACY DISCLOSURE AND CONSENT**
[54] **SYSTEMES ET PROCEDES POUR FACILITER LA DIVULGATION ET LE CONSENTEMENT DE LA CONFIDENTIALITE**
[72] LEE, ERIC, US
[71] LEE, ERIC, US
[85] 2024-06-06
[86] 2022-12-07 (PCT/US2022/052156)
[87] (WO2023/107572)
[30] US (63/286,962) 2021-12-07

[21] **3,240,322**
[13] A1
[51] **Int.Cl. C09D 7/65 (2018.01) C08G 18/08 (2006.01) C08G 18/32 (2006.01) C08G 18/40 (2006.01) C08G 18/42 (2006.01) C08G 18/62 (2006.01) C08G 18/66 (2006.01) C08G 18/72 (2006.01)**
[25] EN
[54] **CLEAR COATING COMPOSITION**
[54] **COMPOSITION DE REVETEMENT TRANSPARENT**
[72] KOZAKURA, NAOTO, JP
[72] FUKUHARA, IPPEI, JP
[72] MATSUFUJI, TAKUNORI, JP
[72] MIZUGUCHI, KATSUMI, JP
[72] HORII, SHINICHI, JP
[71] NIPPON PAINT AUTOMOTIVE COATINGS CO., LTD., JP
[85] 2024-06-06
[86] 2022-11-04 (PCT/JP2022/041171)
[87] (WO2023/112541)
[30] JP (2021-204948) 2021-12-17

[21] **3,240,329**
[13] A1
[25] EN
[54] **OMNI-103 CRISPR NUCLEASE-RNA COMPLEXES**
[54] **COMPLEXES NUCLEASE CRISPR OMNI-103-ARN**
[72] IZHAR, LIOR, IL
[72] ROCKAH, LIAT, IL
[72] MARBACH BAR, NADAV, IL
[72] HECHT, NIR, IL
[71] EMENDOBIO INC., US
[85] 2024-06-06
[86] 2022-12-06 (PCT/US2022/081019)
[87] (WO2023/107946)
[30] US (63/286,855) 2021-12-07

[21] **3,240,330**
[13] A1
[51] **Int.Cl. C07F 7/12 (2006.01) C07F 7/18 (2006.01)**
[25] EN
[54] **HIGH PURITY POLYSILOXANE MACROMERS AND METHOD FOR MAKING THE SAME**
[54] **MACROMERES DE POLYSILOXANE DE HAUTE PURETE ET LEUR PROCEDE DE FABRICATION**
[72] ARKLES, BARRY C., US
[72] GOFF, JONATHAN D., US
[71] GELEST, INC., US
[85] 2024-06-06
[86] 2021-12-15 (PCT/US2021/063438)
[87] (WO2023/113779)

[21] **3,240,331**
[13] A1
[51] **Int.Cl. A61K 8/58 (2006.01) A61K 8/362 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR THE PROTECTION OF HAIR**
[54] **PROCEDES ET COMPOSITIONS POUR LA PROTECTION DES CHEVEUX**
[72] ABEL-ROBERMAN, TATYANA, US
[72] ARKLES, BARRY C., US
[72] PHILLIPS, ALISON ANNE, US
[71] GELEST, INC., US
[85] 2024-06-06
[86] 2021-12-20 (PCT/US2021/064289)
[87] (WO2023/121639)

[21] **3,240,336**
[13] A1
[51] **Int.Cl. G06Q 30/00 (2023.01) G06Q 40/08 (2012.01) G06F 21/64 (2013.01) G06F 16/27 (2019.01) G06Q 30/018 (2023.01) G06Q 30/0207 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MONETIZING TOKENIZED PROPERTY**
[54] **SYSTEME ET PROCEDE DE MONETISATION D'UNE PROPRIETE TOKENISEE**
[72] KHANDELWAL, HARSCH, CA
[71] UREEQA INC., CA
[85] 2024-06-06
[86] 2022-12-07 (PCT/CA2022/000065)
[87] (WO2023/102640)
[30] US (63/286,835) 2021-12-07

[21] **3,240,337**
[13] A1
[51] **Int.Cl. G06Q 99/00 (2006.01) G06Q 50/18 (2012.01) G06F 16/27 (2019.01)**
[25] EN
[54] **A SYSTEM AND METHOD FOR ENFORCEABLE AND DIVISIBLE TOKENIZATION OF PROPERTY**
[54] **SYSTEME ET PROCEDE DE TOKENISATION APPLICABLE ET DIVISIBLE DE PROPRIETE**
[72] KHANDELWAL, HARSCH, CA
[72] HUNTER, THOMAS K., CA
[71] UREEQA INC., CA
[85] 2024-06-06
[86] 2022-12-07 (PCT/CA2022/000066)
[87] (WO2023/102641)
[30] US (63/286,807) 2021-12-07

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,238,442**
[13] A1
[51] **Int.Cl. E04B 1/343 (2006.01) E04B 1/04 (2006.01) E04B 1/20 (2006.01) E04B 1/348 (2006.01)**
[25] EN
[54] **MODULE FOR USE IN PREPARING A PREFABRICATED STRUCTURE, METHOD FOR MANUFACTURING SAME AND TRANSPORT FRAME**
[54] **MODULE DESTINE A ETRE UTILISE DANS LA PREPARATION D'UNE STRUCTURE PREFABRIQUEE, SON PROCEDE DE FABRICATION ET CADRE DE TRANSPORT**
[72] SEARLES, DARRELL ALBERT, CA
[71] LODESTAR STRUCTURES INC., CA
[22] 2022-02-10
[41] 2022-08-18
[62] 3,208,251
[30] US (63/148,801) 2021-02-12

[21] **3,238,600**
[13] A1
[25] EN
[54] **ENCODER, DECODER, ENCODING METHOD, DECODING METHOD, AND PICTURE COMPRESSION PROGRAM**
[54] **CODEUR, DECODEUR, PROCEDE DE CODAGE, PROCEDE DE DECODAGE ET PROGRAMME DECOMPRESSION D'IMAGE**
[72] TOMA, TADAMASA, JP
[72] NISHI, TAKAHIRO, JP
[72] ABE, KIYOFUMI, JP
[72] KANOH, RYUICHI, JP
[72] LIM, CHONG SOON, SG
[72] SHASHIDHAR, SUGHOSH PAVAN, SG
[72] LIAO, RU LING, SG
[72] SUN, HAI WEI, SG
[72] TEO, HAN BOON, SG
[72] LI, JING YA, SG
[71] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
[22] 2019-05-09
[41] 2019-11-28
[62] 3,157,007
[30] US (62/674,812) 2018-05-22
[30] JP (2019-028523) 2019-02-20

[21] **3,239,378**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR DISTRIBUTED UTILITY SERVICE EXECUTION**
[54] **SYSTEME ET PROCEDE D'EXECUTION DE SERVICE PUBLIC DISTRIBUE**
[72] VAN DER MERWE, FIRK A., US
[72] KAMEN, DEAN, US
[72] KANE, DEREK G., US
[72] BUITKUS, GREGORY J., US
[72] CARRIGG, EMILY A., US
[72] PITENIS, CONSTANCE D., US
[72] CRANFIELD, ZACHARY E., US
[72] XU, AIDI, US
[72] ZACK, RAPHAEL I., US
[72] PAWLOWSKI, DANIEL F., US
[72] KINBERGER, MATTHEW B., US
[72] COULTER, STEWART M., US
[72] LANGENFELD, CHRISTOPHER C., US
[71] DEKA PRODUCTS LIMITED PARTNERSHIP, US
[22] 2019-06-07
[41] 2019-12-12
[62] 3,106,189
[30] US (62/682,129) 2018-06-07

[21] **3,239,430**
[13] A1
[25] EN
[54] **APPARATUSES, METHODS, AND SYSTEMS FOR VIBRATORY SCREENING**
[54] **APPAREILS, PROCEDES ET SYSTEMES DESTINES AU CRIBLAGE A VIBRATIONS**
[72] COLGROVE, JAMES R., US
[72] PERESAN, MICHAEL L., US
[71] DERRICK CORPORATION, US
[22] 2017-10-16
[41] 2018-04-19
[62] 3,040,496
[30] US (62/408,514) 2016-10-14
[30] US (62/488,293) 2017-04-21

[21] **3,239,436**
[13] A1
[51] **Int.Cl. F21V 5/04 (2006.01) F21V 23/00 (2015.01) F21V 33/00 (2006.01)**
[25] EN
[54] **TOOL ILLUMINATION SOURCE**
[54] **SOURCE DE LUMIERE POUR OUTIL**
[72] RAJZER, MICHAEL, US
[72] GENZ, JASON, US
[72] BROUWERS, CRAIG, US
[72] BEER, JOSHUA, US
[71] SNAP-ON INCORPORATED, US
[22] 2021-08-24
[41] 2022-03-22
[62] 3,128,818
[30] US (17/028,296) 2020-09-22

[21] **3,239,447**
[13] A1
[51] **Int.Cl. A61K 47/65 (2017.01) A61K 31/336 (2006.01) A61K 31/565 (2006.01) A61P 35/00 (2006.01) G01N 33/48 (2006.01)**
[25] EN
[54] **TREATMENT FOR TUMORS DRIVEN BY METABOLIC DYSFUNCTION**
[54] **TRAITEMENT DE TUMEURS INDUITES PAR UN DYSFONCTIONNEMENT METABOLIQUE**
[72] SHANAHAN, JAMES, US
[72] CORNELIUS, PETER, US
[71] SYNDEVRX, INC., US
[22] 2017-01-11
[41] 2017-07-20
[62] 3,008,960
[30] US (62/277,293) 2016-01-11
[30] US (62/393,929) 2016-09-13
[30] US (62/395,446) 2016-09-16

[21] **3,239,477**
[13] A1
[25] EN
[54] **MODULAR INTRAOCULAR LENS DESIGNS, TOOLS AND METHODS**
[54]
[72] KAHOOK, MALIK Y., US
[72] SUSSMAN, GLENN, US
[72] MCLEAN, PAUL, US
[72] SCHIEBER, ANDREW, US
[71] ALCON, INC., CH
[71] THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE, US
[22] 2015-12-21
[41] 2016-08-04
[62] 2,974,639
[30] US (62/110,241) 2015-01-30
[30] US (14/828,083) 2015-08-17

[21] **3,239,508**
[13] A1
[25] EN
[54] **WIRELESS SENSOR READER**
[54] **LECTEUR-DETECTEUR SANS FIL**
[72] ROWLAND, HARRY, US
[72] WATKINS, ROGER, US
[72] SUNDARAM, BALAMURUGAN, US
[72] PAUL, BRYAN, US
[72] AHN, IN SOO, US
[72] NAGY, MICHAEL, US
[71] ENDOTRONIX, INC., US
[22] 2010-03-19
[41] 2010-10-14
[62] 3,080,312
[30] US (12/419,326) 2009-04-07

[21] **3,239,521**
[13] A1
[51] **Int.Cl. A61M 5/315 (2006.01) A61M 5/178 (2006.01) A61M 5/32 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MULTIPLE SITE INJECTION**
[54] **SYSTEME ET PROCEDE D'INJECTION DE SITE MULTIPLE**
[72] SHANLEY, CONOR EDWARD, US
[72] SHLUZAS, ALAN E., US
[72] LEUNG, MINA M., US
[72] DIAZ, STEPHEN H., US
[71] CREDENCE MEDSYSTEMS, INC., US
[22] 2019-11-13
[41] 2020-05-22
[62] 3,119,455
[30] US (62/760,273) 2018-11-13

[21] **3,239,524**
[13] A1
[25] EN
[54] **NAVIGATOR**
[54] **NAVIGATEUR**
[72] AUGUSTSSON, PER, SE
[71] FQ IP AB, SE
[22] 2021-12-14
[41] 2022-06-23
[62] 3,201,407
[30] EP (20214305.3) 2020-12-15

[21] **3,239,539**
[13] A1
[51] **Int.Cl. G10L 19/02 (2013.01)**
[25] EN
[54] **SPEECH DECODER, SPEECH ENCODER, SPEECH DECODING METHOD, SPEECH ENCODING METHOD, SPEECH DECODING PROGRAM, AND SPEECH ENCODING PROGRAM**
[54] **DECODEUR DE LA PAROLE, CODEUR DE LA PAROLE, METHODE DE DECODAGE DE LA PAROLE, METHODE DE CODAGE DE LA PAROLE, PROGRAMME DE DECODAGE DE LA PAROLE ET PROGRAMME DE CODAGE DE LA PAROLE**
[72] KIKUIRI, KEI, JP
[72] YAMAGUCHI, ATSUSHI, JP
[71] NTT DOCOMO, INC., JP
[22] 2012-02-16
[41] 2012-08-23
[62] 3,147,525
[30] JP (2011-033917) 2011-02-18
[30] JP (2011-215591) 2011-09-29

[21] **3,239,554**
[13] A1
[25] EN
[54] **BATTERY-POWERED RETROFIT REMOTE CONTROL DEVICE**
[54] **DISPOSITIF DE TELECOMMANDE MONTE EN RATTRAPAGE ALIMENTE PAR BATTERIE**
[72] DIMBERG, CHRIS, US
[72] MCDONALD, MATTHEW PHILIP, US
[72] SHIVELL, WILLIAM TAYLOR, US
[71] LUTRON TECHNOLOGY COMPANY LLC, US
[22] 2017-06-02
[41] 2017-12-07
[62] 3,026,450
[30] US (62/345,222) 2016-06-03
[30] US (62/356,179) 2016-06-29
[30] US (62/411,223) 2016-10-21

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[21] **3,239,581**
[13] A1
[25] EN
[54] **CONTROLLED SYMPATHECTOMY AND MICRO-ABLATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE SYMPATHECTOMIE ET DE MICRO-ABLATION CONTROLEES**
[72] TOTH, LANDY, US
[72] SCHWARTZ, ROBERT, US
[71] AUTONOMIX MEDICAL, INC., US
[22] 2013-01-25
[41] 2013-08-01
[62] 3,151,885
[30] US (61/590,812) 2012-01-26
[30] US (61/613,097) 2012-03-20

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[21] **3,239,608**
[13] A1
[51] **Int.Cl. B03D 1/02 (2006.01)**
[25] EN
[54] **A FROTH FLOTATION ARRANGEMENT AND A FROTH FLOTATION METHOD**
[54] **AGENCEMENT DE FLOTTATION PAR MOUSSE ET PROCEDE DE FLOTTATION PAR MOUSSE**
[72] YANEZ, ALEJANDRO, FI
[72] GRAU, RODRIGO, FI
[71] METSO OUTOTEC FINLAND OY, FI
[22] 2017-07-04
[41] 2019-01-10
[62] 3,068,568

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[21] **3,239,650**
[13] A1
[25] EN
[54] **TRANSCATHETER HEART VALVE FOR REPLACING NATURAL MITRAL VALVE**
[54] **VALVE CARDIAQUE TRANSCATHETHER POUR REMPLACEMENT D'UNE VALVE MITRALE NATURELLE**
[72] GUROVICH, NIKOLAY, US
[72] JAFARI, MOHAMMAD, US
[72] TAYEB, LIRON, US
[72] TAMIR, ILAN, US
[72] YOHANAN, ZIV, US
[72] NIR, NOAM, US
[72] MAIMON, DAVID, US
[72] MANASH, BOAZ, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[22] 2016-11-09
[41] 2017-05-18
[62] 3,003,309
[30] US (62/253,475) 2015-11-10
[30] US (15/345,857) 2016-11-08

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[21] **3,239,702**
[13] A1
[25] EN
[54] **SYSTEMS, METHOD, AND APPARATUS FOR ELECTRONIC PATIENT CARE**
[54]
[72] KAMEN, DEAN, US
[72] BIASI, JOHN J., US
[72] SCARPACI, JACOB W., US
[72] KERWIN, JOHN M., US
[72] TURNER, JAMES G., US
[72] BALLANTYNE, TODD A., US
[71] DEKA PRODUCTS LIMITED PARNERSHIP, US
[22] 2011-12-21
[41] 2013-06-27
[62] 3,055,037

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[21] **3,239,738**
[13] A1
[51] **Int.Cl. G05D 1/228 (2024.01) G05B 7/02 (2006.01) G05D 1/22 (2024.01) G05D 1/80 (2024.01) G05D 1/227 (2024.01)**
[25] EN
[54] **VEHICLE CONTROL SYSTEM**
[54] **SYSTEME DE COMMANDE DE VEHICULE**
[72] JONES, MORGAN D., US
[72] DACKO, MICHAEL JOHN, US
[72] KIRBY, BRIAN THOMAS, US
[71] AURORA OPERATIONS, INC., US
[22] 2018-02-19
[41] 2018-08-30
[62] 3,054,555
[30] US (15/440,510) 2017-02-23

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[21] **3,239,747**
[13] A1
[25] EN
[54] **WHEAT MS1 POLYNUCLEOTIDES, POLYPEPTIDES, AND METHODS OF USE**
[54] **POLYNUCLEOTIDES MS1 DE BLE, POLYPEPTIDES ET LEURS PROCEDES D'UTILISATION**
[72] ALBERTSEN, MARC C., US
[72] BAUMANN, UTE, AU
[72] CIGAN, ANDREW MARK, US
[72] SINGH, MANJIT, US
[72] TUCKER, ELISE, AU
[72] WHITFORD, RYAN, AU
[71] PIONEER HI-BRED INTERNATIONAL, INC., US
[22] 2015-09-21
[41] 2016-03-31
[62] 2,962,419
[30] US (62/056,365) 2014-09-26
[30] US (62/187,591) 2015-07-01

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[21] **3,239,757**
[13] A1
[25] EN
[54] **DEBRIS COLLECTION TOOL**
[54] **OUTIL DE COLLECTE DE DEBRIS**
[72] GARCIA, MATTHEW DANIEL, US
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US
[22] 2021-02-15
[41] 2021-09-10
[62] 3,166,261
[30] US (16/805,941) 2020-03-02
[30] US (16/883,746) 2020-05-26

[21] **3,239,785**
[13] A1
[25] EN
[54] **MULTI-PIECE TUNNEL FOR A SNOW VEHICLE**
[54]
[72] STOCK, JACOB L., US
[72] STENLUND, TIMOTHY W., US
[72] CHRISTIAN, DAVID W., US
[72] PIRCON, JOHN B., US
[72] HEDLUND, MICHAEL A., US
[72] PRUSAK, MATTHEW J., US
[72] KOFSTAD, CODY S., US
[71] POLARIS INDUSTRIES INC., US
[22] 2022-01-06
[41] 2022-07-07
[62] 3,144,937
[30] US (63/134,873) 2021-01-07
[30] US (17/564,390) 2021-12-29

[21] **3,239,805**
[13] A1
[25] EN
[54] **TREATMENT OF PROTEIN AGGREGATION MYOPATHIC AND NEURODEGENERATIVE DISEASES BY PARENTERAL ADMINISTRATION OF TREHALOSE**
[54] **TRAITEMENT DE MALADIE MYOPATHIQUES ET NEURODEGENERATIVES A AGREGATION PROTEIQUE PAR ADMINISTRATION PARENTERALE DE TREHALOSE**
[72] MEGIDDO, DALIA, IL
[71] SEELOS THERAPEUTICS, INC., US
[22] 2014-05-07
[41] 2014-11-13
[62] 2,911,399
[30] US (61/820,278) 2013-05-07

[21] **3,239,809**
[13] A1
[51] **Int.Cl. A61K 33/10 (2006.01) A61P 15/08 (2006.01)**
[25] EN
[54] **STABILIZED AMORPHOUS CALCIUM CARBONATE FOR TREATMENT OF NEUROLOGICAL, MUSCULAR AND INFERTILITY DISEASES OR CONDITIONS**
[54] **CARBONATE DE CALCIUM AMORPHE STABILISE POUR LE TRAITEMENT DE MALADIES OU D'AFFECTIONS NEUROLOGIQUES OU MUSCULAIRES ET L'INFERTILITE**
[72] BEN, YOSEF, IL
[72] SHAHAR, ABRAHAM, IL
[72] ARAV, AMIR, IL
[71] AMORPHICAL LTD., IL
[22] 2017-01-17
[41] 2017-07-27
[62] 3,011,667
[30] US (62/279,844) 2016-01-18
[30] US (62/279,845) 2016-01-18
[30] US (62/279,843) 2016-01-18
[30] US (62/376,428) 2016-08-18

[21] **3,239,810**
[13] A1
[25] EN
[54] **METHOD, SYSTEM AND COMPUTER READABLE MEDIUM FOR EVALUATING INFLUENCE OF AN ACTION PERFORMED BY AN EXTERNAL ENTITY**
[54]
[72] FERREIRA, RICARDO, DE
[72] HADRATH, STEFAN, DE
[72] HOEHMANN, PETER, DE
[72] KAESTLE, HERBERT, DE
[72] KOLB, FLORIAN, DE
[72] MAGG, NORBERT, DE
[72] PARK, JIYE, DE
[72] SCHMIDT, TOBIAS, DE
[72] SCHNARRENBERGER, MARTIN, DE
[72] HAAS, NORBERT, DE
[72] HORN, HELMUT, DE
[72] SIESSEGGER, BERNHARD, DE
[72] ANGENENDT, GUIDO, DE
[72] BRAQUET, CHARLES, DE
[72] MAIERBACHER, GERHARD, DE
[72] NEITZKE, OLIVER, DE
[72] KHRUSHCHEV, SERGEY, DE
[71] LEDDARTECH INC., CA
[22] 2020-03-05
[41] 2020-09-17
[62] 3,173,966
[30] DE (10 2019 203 175.7) 2019-03-08
[30] DE (10 2019 205 514.1) 2019-04-16
[30] DE (10 2019 206 939.8) 2019-05-14
[30] DE (10 2019 208 489.3) 2019-06-12
[30] DE (10 2019 210 528.9) 2019-07-17
[30] DE (10 2019 213 210.3) 2019-09-02
[30] DE (10 2019 214 455.1) 2019-09-23
[30] DE (10 2019 216 362.9) 2019-10-24
[30] DE (10 2019 217 097.8) 2019-11-06
[30] DE (10 2019 218 025.6) 2019-11-22
[30] DE (10 2019 219 775.2) 2019-12-17
[30] DE (10 2020 200 833.7) 2020-01-24
[30] DE (10 2020 201 577.5) 2020-02-10
[30] DE (10 2020 201 900.2) 2020-02-17
[30] DE (10 2020 202 374.3) 2020-02-25

[21] **3,239,820**
[13] A1
[25] EN
[54] **PROCESSING OF AUDIO SIGNALS DURING HIGH FREQUENCY RECONSTRUCTION**
[54] **TRAITEMENT DE SIGNAUX AUDIO PENDANT UNE RECONSTITUTION HAUTE FREQUENCE**
[72] KJOERLING, KRISTOFER, SE
[71] DOLBY INTERNATIONAL AB, IE
[22] 2011-07-14
[41] 2012-01-26
[62] 3,234,274
[30] US (61/365518) 2010-07-19
[30] US (61/386725) 2010-09-27

[21] **3,239,825**
[13] A1
[25] EN
[54] **ACTIVE COMFORT CONTROLLED BEDDING SYSTEMS**
[54] **SYSTEMES DE LITERIE A COMMANDE ACTIVE DE CONFORT**
[72] DEFRANKS, MICHAEL S., US
[72] KIRTIKAR, RAHUL, US
[72] RAMSDEN, MARTIN, US
[71] DREAMWELL, LTD., US
[22] 2019-01-08
[41] 2019-07-11
[62] 3,087,684
[30] US (15/864,404) 2018-01-08

[21] **3,239,862**
[13] A1
[51] **Int.Cl. H01Q 1/12 (2006.01) H01Q 1/38 (2006.01) H01Q 15/00 (2006.01) H01Q 21/06 (2006.01)**
[25] EN
[54] **ULTRA-WIDE BAND ANTENNA CONFIGURATION FOR PHYSICAL ACCESS CONTROL SYSTEM**
[54] **CONFIGURATION D'ANTENNES A BANDE ULTRA-LARGE POUR SYSTEME DE CONTROLE D'ACCES PHYSIQUE**
[72] PIRCH, HANS-JUERGEN, AT
[71] ASSA ABLOY AB, SE
[22] 2020-09-22
[41] 2021-04-01
[62] 3,152,337
[30] US (62/906,342) 2019-09-26

[21] **3,239,863**
[13] A1
[25] EN
[54] **COMPOSITE REFRIGERATED SEMI-TRAILER AND METHOD OF MAKING THE SAME**
[54] **SEMI-REMORQUE REFRIGEREE EN COMPOSITE ET METHODE DE FABRICATION ASSOCIEE**
[72] STORZ, SCOTT A., US
[72] BAUER, JEFFRIE SCOTT, US
[72] WYLEZINSKI, ANDRZEJ, US
[71] WABASH NATIONAL, L.P., US
[22] 2017-02-23
[41] 2017-08-24
[62] 2,958,838
[30] US (62/299265) 2016-02-24

[21] **3,239,866**
[13] A1
[25] EN
[54] **CROP GROWTH SYSTEM INCLUDING A SEEDER AND ASSOCIATED HARVESTER**
[54] **SYSTEME DE CROISSANCE DES CULTURES COMPRENANT UN SEMOIR ET UNE MOISSONNEUSE ASSOCIEE**
[72] PRYSTUPA, DAVID, CA
[72] PACAK, JOHN, CA
[71] 10691976 CANADA LTD., CA
[22] 2019-03-21
[41] 2019-09-26
[62] 3,094,523
[30] US (62/646,202) 2018-03-21
[30] US (62/646,211) 2018-03-21

[21] **3,239,867**
[13] A1
[25] EN
[54] **HELMET ACCESSORY MOUNTING SYSTEM**
[54] **SYSTEME DE MONTAGE D'ACCESSOIRE DE CASQUE**
[72] FRANZINO, MICHAEL LAWRENCE, US
[72] BOURQUE, STEPHEN, US
[72] JAMES, SCOTT W., US
[72] BERRY, DANIEL, US
[72] BARBER, ROSS FADE, US
[72] BRUTLER, ZOLTAN S., US
[71] GENTEX CORPORATION, US
[22] 2020-05-22
[41] 2020-11-26
[62] 3,137,922
[30] US (62/851,571) 2019-05-22

[21] **3,239,871**
[13] A1
[25] EN
[54] **BACKWARD-COMPATIBLE INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES FOR AUDIO SIGNALS**
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[72] KJOERLING, KRISTOFER, SE
[72] VILLEMOES, LARS, SE
[72] PURNHAGEN, HEIKO, SE
[72] EKSTRAND, PER, SE
[71] DOLBY INTERNATIONAL AB, NL
[22] 2019-01-28
[41] 2019-08-01
[62] 3,114,382
[30] US (62/622,205) 2018-01-26

[21] **3,239,874**
[13] A1
[25] EN
[54] **INHIBITION-FREE LOW-TEMPERATURE ENGINE EXHAUST OXIDATION CATALYST**
[54] **CATALYSEUR D'OXYDATION DE GAZ D'ECHAPPEMENT DE MOTEUR A BASSE TEMPERATURE SANS INHIBITION**
[72] GRABOW, LARS, US
[72] SONG, YUYING, US
[72] GOULAS, KONSTANTINOS, US
[72] HAZLETT, MELANIE, US
[72] EPLING, WILLIAM, US
[71] UNIVERSITY OF HOUSTON SYSTEM, US
[71] OREGON STATE UNIVERSITY, US
[22] 2021-02-11
[41] 2021-08-19
[62] 3,166,935
[30] US (62/975,383) 2020-02-12

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[21] **3,239,880**
[13] A1
[25] EN
[54] **CXCR2 BINDING POLYPEPTIDES**
[54] **POLYPEPTIDES SE LIANT AUX RECEPTEURS DE CHIMIOKINES**
[72] BRADLEY, MICHELLE, GB
[72] BROWN, ZARIN, GB
[72] CHARLTON, STEVEN JOHN, GB
[72] CROMIE, KAREN, GB
[72] DOMBRECHT, BRUNO, GB
[72] STEFFENSEN, SOREN, GB
[72] VAN HEEKE, GINO, GB
[71] ABLYNX N.V., BE
[22] 2011-11-07
[41] 2012-05-18
[62] 2,817,132
[30] US (61/411,083) 2010-11-08

[21] **3,239,884**
[13] A1
[25] EN
[54] **BACKWARD-COMPATIBLE INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES FOR AUDIO SIGNALS**
[54] **INTEGRATION RETROCOMPATIBLE DE TECHNIQUES DE RECONSTRUCTION HAUTE FREQUENCE POUR SIGNAUX AUDIO**
[72] KJOERLING, KRISTOFER, SE
[72] VILLEMOES, LARS, SE
[72] PURNHAGEN, HEIKO, SE
[72] EKSTRAND, PER, SE
[71] DOLBY INTERNATIONAL AB, NL
[22] 2019-01-28
[41] 2019-08-01
[62] 3,114,382
[30] US (62/622,205) 2018-01-26

[21] **3,239,931**
[13] A1
[25] EN
[54] **METHOD AND SYSTEM TO PROVIDE SUBTITLES ON A WIRELESS COMMINICATIONS DEVICE**
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[72] TAM, TERRY, CN
[72] SO, JERRY, CN
[72] WONG, DICK, CN
[72] WONG, KA, CN
[72] CHUNG, DAVID, US
[72] TSUI, JASON, US
[71] ROVI GUIDES, INC., US
[22] 2011-01-04
[41] 2011-07-14
[62] 3,030,066
[30] US (12/652,571) 2010-01-05
[30] US (12/652,572) 2010-01-05
[30] US (12/652,569) 2010-01-05

[21] **3,239,953**
[13] A1
[25] EN
[54] **PROSTHETIC HEART VALVE DELIVERY APPARATUS**
[54] **APPAREIL DE POSE DE VALVULE CARDIAQUE PROTHETIQUE**
[72] BAKIS, GEORGE, US
[72] NGUYEN, THANH V., US
[72] PHAN, LY T., US
[72] METCHIK, ASHER, US
[71] EDWARDS LIFESCIENCES CORPORATION, US
[22] 2014-05-20
[41] 2014-11-27
[62] 3,219,973
[30] US (61/825,476) 2013-05-20

[21] **3,240,003**
[13] A1
[51] **Int.Cl. H04L 9/32 (2006.01)**
[25] EN
[54] **SECURE PASSWORD MANAGEMENT SYSTEMS, METHODS AND APPARATUSES**
[54] **SYSTEMES, PROCEDES ET APPAREIL DE GESTION DE MOT DE PASSE SECURISEE**
[72] IGNATCHENKO, SERGEY, AT
[71] OLOGN TECHNOLOGIES AG, LI
[22] 2013-06-18
[41] 2014-01-16
[62] 3,092,595
[30] US (61/661,250) 2012-06-18
[30] US (13/920,530) 2013-06-18

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