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# The Patent

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Canada



# THE CANADIAN PATENT OFFICE RECORD

## LA GAZETTE DU BUREAU DES BREVETS

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

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

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

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

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## Notices

## Avis

### 1. Dates and Code Numerals Appearing in Patent Headings

#### Dates

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

#### Code Numerals

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

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

- [11] - Number of Patent document
- [13] - Kind-of-document code
- [21] - Number assigned to the Application
- [22] - Date of Filing Application or
- [22] - Date of filing of related divisional application
- [25] - Language in which the published application was originally filed
- [30] - Data relating to priority under the Paris Convention
  
- [41] - Open to Public Inspection Date
- [45] - Date of Issue
- [48] - Correction Date ( Re-Issued, Re-Examined )
- [51] - International Classification
- [52] - Domestic Classification
- [54] - Title of Invention
- [60] - Related by Supplementary Disclosure
- [62] - Related by Division
- [64] - Related by Reissue
- [71] - Name(s) of Applicant(s)
- [72] - Name(s) of Inventor(s)
- [73] - Name(s) of Grantee(s)
- [85] - National Entry Date
- [86] - PCT International Filing Data
- [87] - PCT International Publication data

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

#### Dates

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

#### Chiffres de code

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

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

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

## 2. Country Code

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

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

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

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

## 4. Orders for Patents by Class or Sub-Class

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

## 2. Code des pays

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

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

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

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

## 4. Commande de brevets par classe ou sous-classe

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

## 5. Advice on Making a Patent Application

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

## 6. Licensing of Patents

### Voluntary Licences

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

### Compulsory Licences

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

## 7. Patents Available for Licence or Sale

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

## 8. List of Patents Available for Licence or Sale

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

None

## 5. Conseils relatifs à la préparation de demandes de brevets

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

## 6. Octroi de licences en vertu des brevets

### Licences librement accordées

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

### Licences obligatoires

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

## 7. Brevets disponibles pour licence ou vente

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

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

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

Aucun

## 9. Applications Open to Public Inspection

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

## 10. Language of Published Documents

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

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

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

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

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

## 9. Demandes mises à la disponibilité du public

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

## 10. Langue du document publié

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

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

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

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

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

## Notices

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

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

### 4. Late payment fee

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

### 4. Taxe pour paiement tardif

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

## Preliminary Examination

## Examen préliminaire

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

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

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

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

\* International fees will be reduced by:

- **\$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).

\* 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

## 12. Avis PCT

### Patent Cooperation Treaty (PCT)

### Traité de Coopération en matière de brevets (PCT)

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

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

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

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

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

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

or by "E-mail" ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) or visit their Web site ([www.wipo.int](http://www.wipo.int)).

ou par courriel ([publications.mail@wipo.int](mailto:publications.mail@wipo.int)) ou visiter leur site Web ([www.wipo.int](http://www.wipo.int)).



### 13. Practice Notice

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

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

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

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

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

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

### 13. Énoncé de pratique

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

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

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

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

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

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

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(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.

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.

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*.

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).

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

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

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

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

Publication date: May 10, 2017

Amendment date: June 17, 2019

### On this page:

1. Physical Delivery of Correspondence and Written Communications to CIPO
2. Electronic Correspondence
3. Details Concerning the Electronic Formats Accepted
4. General Information
5. Time Period Extensions
6. Procedures in Case of an Unexpected Office Closure at CIPO

## 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](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>

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

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

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

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

### 1. Physical Delivery of Correspondence and Written Communications to CIPO

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

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

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

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

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

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

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

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

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

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

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

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

Le formulaire de paiements des frais devrait toujours être

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

Download the [Fee Payment Form](#).

### 1.1 Designated Establishments

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

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

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

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

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

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

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

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

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

### 1.1 Établissements désignés

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

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

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

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

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

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

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

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except statutory holiday

l'exception des jours fériés

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

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

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

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

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

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

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

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

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

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

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

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

### 1.2. Services Courrier recommandé<sup>MC</sup> et Xpresspost<sup>MC</sup> 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<sup>MC</sup> et Xpresspost<sup>MC</sup> de Postes Canada sont des établissements ou des

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

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

### 2. Electronic Correspondence

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

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

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

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

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

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

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

### 2. Correspondance électronique

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

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

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

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

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

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open for business.

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

### 2.1 Facsimile

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

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

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

(819) 934-3833

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

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

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

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

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

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

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

### 2.1 Correspondance par télécopieur

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

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

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

(819) 934-3833

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

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

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

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

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

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### Patents

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

### 2.2 Online

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

### Patents

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

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

### Canada as Receiving Office Under the PCT: PCT-SAFE

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

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

### Trademarks

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

### Brevets

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

### 2.2 En ligne

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

### Brevets

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

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

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

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

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

### Marques de commerce

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



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accessing the following pages:

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

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

### *Opposition proceedings before the Trademarks Opposition Board*

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

### *Section 45 proceedings before the Trademarks Opposition Board*

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

## Copyright

:

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

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

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

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

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

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

## Droits d'auteur

## Notices

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

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

## Industrial Designs

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

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

## Integrated Circuit Topographies

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

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

### 2.3 Electronic medium

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

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

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

## Dessins industriels

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

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

## Topographies de circuits intégrés

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

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

### 2.3 Supports électroniques

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

## Brevets

## Patents

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Notices

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

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

### Electronic Media accepted by the Patent Office

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

### Trademarks and Industrial Design

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

## 3. Details Concerning the Electronic Formats Accepted

### Patents

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

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

When applicable, the Patent Office will accept files in the

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

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

### Supports électroniques acceptés par le Bureau des brevets

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

### Marques de commerce et dessins industriels

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

## 3. Précisions concernant les formats électroniques acceptés

### Brevets

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

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

## Avis

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

TIFF Format:

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

PDF Format:

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

ASCII

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

## Trademarks

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

## Industrial Design

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

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

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

Format TIFF

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

Format PDF

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

ASCII

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

## Marques de commerce

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

## Dessins industriels

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

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

## Notices

### 4. General Information

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

### 5. Time Period Extensions

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

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

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

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

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

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

### 4. Renseignements généraux

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

### 5. Prorogation des délais

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

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

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

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

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

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

## Avis

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

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

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

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

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

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

### Time period extensions under the Copyright and Integrated Circuit Topography Acts

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

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

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

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

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

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

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

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

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

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé<sup>MC</sup>, ou par Xpresspost<sup>MC</sup> 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

## Notices

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

### Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

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

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

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

### Time period extensions under the Madrid Protocol and the Hague Agreement

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

### 6. Procédures en cas de fermeture des bureaux

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

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

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

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

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

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

## Notices

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

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

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

#### Patents, Industrial Design, Copyright and Integrated Circuit Topography

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

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

#### Trademarks

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

### 8. Intellectual property acts, rules and regulations

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

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

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

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

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

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

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

#### Marques de commerce

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

### 8. Lois, règles et règlements sur la propriété intellectuelle

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

## Avis

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

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

### **15. Canadian Applications Open to Public Inspection**

The *Canadian Patent Office Record* of June 11, 2024 contains applications open to public inspection from May 26, 2024 to June 1, 2024.

### **15. Demandes canadiennes mises à la disponibilité du public**

La *Gazette du bureau des brevets* du 11 juin 2024 contient les demandes disponibles au public pour consultation pour la période du 26 mai 2024 au 1 juin 2024.

# Canadian Patents Issued

June 11, 2024

## Brevets canadiens délivrés

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[11] **2,789,154**

[13] C

[51] **Int.Cl. C12N 15/85 (2006.01) C07K 16/46 (2006.01)**

[25] EN

[54] **COMMON LIGHT CHAIN MOUSE**

[54] **SOURIS A CHAINE LEGERE COMMUNE**

[72] MCWHIRTER, JOHN, US

[72] MACDONALD, LYNN, US

[72] STEVENS, SEAN, US

[72] DAVIS, SAMUEL, US

[72] MURPHY, ANDREW J., US

[72] BUCKLER, DAVID R., US

[73] REGENERON PHARMACEUTICALS, INC., US

[85] 2012-08-07

[86] 2011-02-08 (PCT/US2011/023971)

[87] (WO2011/097603)

[30] US (61/302,282) 2010-02-08

[11] **2,885,113**

[13] C

[51] **Int.Cl. G06Q 10/101 (2023.01)**

[25] EN

[54] **PROCEDURE FLOW ADMINISTRATION SYSTEM AND METHOD**

[54] **SYSTEME D'ADMINISTRATION DE FLUX DE PROCEDURE ET METHODE**

[72] PHINNEY, ADRIAN, CA

[72] PETERSON, MICAH, CA

[73] GEMBA SOFTWARE SOLUTIONS INC., CA

[86] (2885113)

[87] (2885113)

[22] 2015-03-13

[11] **2,895,206**

[13] C

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6869 (2018.01) G16B 20/00 (2019.01) G16B 30/00 (2019.01)**

[25] EN

[54] **NONINVASIVE PRENATAL MOLECULAR KARYOTYPING FROM MATERNAL PLASMA**

[54] **CARYOTYPAGE MOLECULAIRE PRENATAL NON INVASIF A PARTIR DE PLASMA MATERNEL**

[72] CHIU, WAI KWUN ROSSA, CN

[72] LO, YUK MING DENNIS, CN

[72] CHAN, KWAN CHEE, CN

[72] JIANG, PEIYONG, CN

[72] YU, CHEUK YIN JANDY, CN

[73] THE CHINESE UNIVERSITY OF HONG KONG, CN

[85] 2015-06-16

[86] 2014-01-09 (PCT/AU2014/000012)

[87] (WO2014/107765)

[30] US (61/751,213) 2013-01-10

[30] US (13/837,776) 2013-03-15

[11] **2,898,467**

[13] C

[51] **Int.Cl. G01N 35/00 (2006.01) B01L 3/00 (2006.01) G01N 33/48 (2006.01)**

[25] EN

[54] **ANALYTIC DEVICE**

[54] **DISPOSITIF ANALYTIQUE**

[72] DEJOHN, MARC DOMINIC, US

[72] VAN WESTRIENEN, JESSE WILSON, US

[72] MASKSUTOVIC, MAXIMILIAN, US

[73] BIOMEME INCORPORATED, US

[85] 2015-07-16

[86] 2014-01-21 (PCT/US2014/012308)

[87] (WO2014/113785)

[30] US (61/754,472) 2013-01-18

[11] **2,901,185**

[13] C

[51] **Int.Cl. G06F 21/10 (2013.01)**

[25] EN

[54] **VIDEO RESOLUTION ENFORCEMENT AND OPTIMIZATION IN AN ADAPTIVE BITRATE ENVIRONMENT**

[54] **MISE EN APPLICATION D'UNE RESOLUTION VIDEO ET OPTIMISATION DANS UN ENVIRONNEMENT DE DEBIT BINAIRE ADAPTATIF**

[72] PARK, KYONG, US

[72] FAHRNY, JAMES W., US

[73] COMCAST CABLE COMMUNICATIONS, LLC, US

[86] (2901185)

[87] (2901185)

[22] 2015-08-20

[30] US (14/491,393) 2014-09-19

[11] **2,903,164**

[13] C

[51] **Int.Cl. A61M 31/00 (2006.01) A61K 9/00 (2006.01) A61L 27/54 (2006.01)**

[25] EN

[54] **DRUG DELIVERY DEVICES WITH DRUG-PERMEABLE COMPONENT AND METHODS**

[54] **DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT DOTES D'UN COMPOSANT ETANCHE AUX MEDICAMENTS ET PROCEDES ASSOCIES**

[72] LEE, HEEJIN, US

[72] DANIEL, KAREN, US

[72] SANSONE, MATTHEW, US

[73] TARIS BIOMEDICAL LLC, US

[85] 2015-08-28

[86] 2014-03-17 (PCT/US2014/030437)

[87] (WO2014/145638)

[30] US (61/799,733) 2013-03-15

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[11] **2,914,701**  
[13] C

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 25/06 (2006.01) A61M 39/00 (2006.01)**

[25] EN

[54] **PORTED IV CATHETER HAVING EXTERNAL NEEDLE SHIELD AND INTERNAL BLOOD CONTROL SEPTUM**

[54] **CATHETER INTRAVEINEUX PORTE AYANT UN PROTECTEUR D'AIGUILLE EXTERNE ET UNE CLOISON DE REGULATION DE SANG INTERNE**

[72] ISAACSON, S. RAY, US

[72] BORNHOFT, STEPHEN T., US

[72] HARDING, WESTON F., US

[72] MA, YIPING, US

[72] SHEVGOOR, SIDDARTH K., US

[73] BECTON, DICKINSON AND COMPANY, US

[85] 2015-12-07

[86] 2014-06-05 (PCT/US2014/041010)

[87] (WO2014/197656)

[30] US (61/832,512) 2013-06-07

[30] US (14/295,953) 2014-06-04

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[11] **2,921,643**  
[13] C

[51] **Int.Cl. G01F 1/74 (2006.01) G01F 1/84 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR MULTIPHASE FLOW METERING ACCOUNTING FOR DISSOLVED GAS**

[54] **SYSTEMES ET METHODES DE MESURE D'ECOULEMENT MULTIPHASE DETERMINANT LA TENEUR EN GAZ DISSOUT**

[72] HENRY, MANUS P., GB

[72] CASIMIRO, RICHARD P., US

[72] TOMBS, MICHAEL S., GB

[72] PROBST, ALICE ANNE, US

[73] SCHNEIDER ELECTRIC SYSTEMS USA, INC., US

[86] (2921643)

[87] (2921643)

[22] 2016-02-23

[30] US (14/634,521) 2015-02-27

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[11] **2,923,959**  
[13] C

[51] **Int.Cl. A61K 39/02 (2006.01) A61K 39/00 (2006.01) A61K 39/385 (2006.01) C07K 14/195 (2006.01)**

[25] EN

[54] **GLYCOCONJUGATE VACCINES**

[54] **VACCINS GLYCOCONJUGUES**

[72] WREN, BRENDAN, GB

[72] CUCCUI, JON, GB

[72] MOULE, MADELEINE, GB

[73] LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, GB

[85] 2016-03-10

[86] 2014-01-21 (PCT/GB2014/050159)

[87] (WO2014/114926)

[30] GB (1301085.5) 2013-01-22

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[11] **2,924,925**  
[13] C

[51] **Int.Cl. H02N 11/00 (2006.01) A45F 3/18 (2006.01) A47G 19/22 (2006.01) H02J 7/00 (2006.01)**

[25] EN

[54] **CAPTURING THERMOELECTRICITY FROM BEVERAGES**

[54] **CAPTURE DE L'ELECTRICITE THERMIQUE DES BOISSONS**

[72] MAKOSINSKI, ANN, CA

[72] MAKOSINSKI, ARTHUR, CA

[73] MAKOTRONICS ENTERPRISES INC., CA

[86] (2924925)

[87] (2924925)

[22] 2016-03-23

[30] US (62/137291) 2015-03-24

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[11] **2,927,467**  
[13] C

[51] **Int.Cl. A61B 5/282 (2021.01) A61B 5/339 (2021.01) A61B 5/344 (2021.01) A61B 5/024 (2006.01) A61B 5/288 (2021.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR DETECTING AN ABDOMINAL ELECTROPHYSIOLOGICAL SIGNAL**

[54] **APPAREIL ET PROCEDE DE DETECTION D'UN SIGNAL ELECTROPHYSIOLOGIQUE ABDOMINAL**

[72] HAYES-GILL, BARRIE, GB

[72] PIERI, JEAN FRANCOIS, GB

[73] GE PRECISION HEALTHCARE LLC, US

[85] 2016-04-14

[86] 2014-10-17 (PCT/GB2014/053120)

[87] (WO2015/056027)

[30] GB (1318413.0) 2013-10-17

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[11] **2,936,537**  
[13] C

[51] **Int.Cl. E02F 9/28 (2006.01)**

[25] EN

[54] **WEAR MEMBER RETENTION SYSTEM FOR AN IMPLEMENT**

[54] **MECANISME DE RETENUE D'ELEMENT D'USURE DESTINE A UN ACCESSOIRE**

[72] TASOVSKI, VASIL SLOBODAN, US

[73] CATERPILLAR INC., US

[86] (2936537)

[87] (2936537)

[22] 2016-07-18

[30] US (14/808,758) 2015-07-24

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[11] **2,937,669**  
[13] C

[51] **Int.Cl. B65G 1/02 (2006.01)**

[25] EN

[54] **AUTOMATED PALLET STORAGE AND RETRIEVAL SYSTEM**

[54] **SYSTEME DE RANGEMENT ET EXTRACTION DE PALETTES AUTOMATISES**

[72] BRUMM, CHRISTOPHER, US

[72] RAMANKUTTY, MOHAN, US

[72] TIPTON, RODNEY, US

[72] MITCHELL, PAT, US

[73] SWISSLOG LOGISTICS, INC., US

[86] (2937669)

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[11] **2,940,772**  
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[51] **Int.Cl. C07D 403/14 (2006.01) A61K 31/395 (2006.01) A61K 31/416 (2006.01) A61K 31/4439 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/55 (2006.01) A61P 37/06 (2006.01) C07D 401/14 (2006.01) C07D 403/06 (2006.01) C07D 405/14 (2006.01) C07D 417/14 (2006.01) C07D 487/04 (2006.01)**

[25] EN

[54] **ARYL, HETEROARYL, AND HETEROCYCLIC COMPOUNDS FOR TREATMENT OF COMPLEMENT MEDIATED DISORDERS**

[54] **COMPOSES ARYLE, HETEROARYLE ET HETEROCYCLIQUES POUR LE TRAITEMENT DE TROUBLES INDUITS PAR UN COMPLEMENT**

[72] GADHACHANDA, VENKAT RAO, US

[72] WANG, QIUPING, US

[72] PAIS, GODWIN, US

[72] HASHIMOTO, AKIHIRO, US

[72] CHEN, DAWEI, US

[72] WANG, XIANGZHU, US

[72] AGARWAL, ATUL, US

[72] DESHPANDE, MILIND, US

[72] WILES, JASON ALLAN, US

[72] PHADKE, AVINASH S., US

[73] ACHILLION PHARMACEUTICALS, INC., US

[85] 2016-08-25

[86] 2015-02-25 (PCT/US2015/017593)

[87] (WO2015/130838)

[30] US (61/944,189) 2014-02-25

[30] US (62/022,916) 2014-07-10

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[11] **2,942,469**  
[13] C

[51] **Int.Cl. A61K 31/192 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY FOR HEAD AND NECK CANCER**

[54] **POLYTHERAPIE POUR LE CANCER DE LA TETE ET DU COU**

[72] GUDAS, LORRAINE J., US

[72] TANG, XIAO-HAN, US

[72] OSEI-SARFO, KWAME, US

[72] URVALEK, ALISON, US

[73] CORNELL UNIVERSITY, US

[85] 2016-09-12

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[30] US (61/950,480) 2014-03-10

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[11] **2,943,768**  
[13] C

[51] **Int.Cl. E21C 35/18 (2006.01) E01C 23/12 (2006.01)**

[25] EN

[54] **REVERSE TAPER SHANKS AND COMPLEMENTARY BASE BLOCK BORES FOR BIT ASSEMBLIES**

[54] **TIGES CONIQUES INVERSEES ET TROUS DE BLOC DE BASE COMPLEMENTAIRES DESTINES AUX ENSEMBLES DE FORETS**

[72] SOLLAMI, PHILLIP, US

[73] THE SOLLAMI COMPANY, US

[86] (2943768)

[87] (2943768)

[22] 2016-09-29

[30] US (62/234,749) 2015-09-30

[30] US (15/257,186) 2016-09-06

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[11] **2,944,178**  
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[51] **Int.Cl. B21C 37/18 (2006.01) B21C 37/12 (2006.01) B23K 9/02 (2006.01) B23K 37/053 (2006.01)**

[25] EN

[54] **CONTROL SYSTEM AND METHOD FOR TAPERED STRUCTURE CONSTRUCTION**

[54] **SYSTEME ET PROCEDE DE COMMANDE POUR LA CONSTRUCTION D'UNE STRUCTURE CONIQUE**

[72] TAKATA, ROSALIND K., US

[72] SMITH, ERIC D., US

[72] BRIDGERS, LOREN DANIEL, US

[72] ANGE, DANIEL, US

[72] SLOCUM, ALEXANDER H., US

[73] KEYSTONE TOWER SYSTEMS, INC., US

[85] 2016-09-27

[86] 2015-03-26 (PCT/US2015/022648)

[87] (WO2015/148756)

[30] US (14/228,481) 2014-03-28

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[11] **2,947,801**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6806 (2018.01) C12N 15/10 (2006.01)**

[25] EN

[54] **METHOD AND KIT FOR DETECTING MICROORGANISMS VIA MICROBIAL NUCLEIC ACID MODIFYING ACTIVITY**

[54] **METHODE ET TROUSSE DE DETECTION DE MICROORGANISMES PAR UNE ACTIVITE DE MODIFICATION DE L'ACIDE NUCLEIQUE MICROBIENNE**

[72] CROW, MATTHEW ALUN, GB

[72] BENNETT, HELEN VICTORIA, GB

[72] WRATTING, DANIEL STEPHEN, GB

[72] MULLEN, WILLIAM HENRY, GB

[73] MOMENTUM BIOSCIENCE LIMITED, GB

[85] 2016-11-02

[86] 2015-07-10 (PCT/GB2015/052006)

[87] (WO2016/005768)

[30] GB (1412316.0) 2014-07-10

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[11] **2,948,538**  
[13] C

[51] **Int.Cl. F16L 58/10 (2006.01) B32B 1/08 (2006.01) B32B 37/00 (2006.01) B32B 38/10 (2006.01) E21B 17/01 (2006.01) E21B 43/01 (2006.01) F16L 58/02 (2006.01)**

[25] EN

[54] **METHOD TO INSTALL A WEAR-RESISTANT POLYMER SLEEVE IN A METAL PIPE BEND STIFFENER**

[54] **METHODE D'INSTALLATION DE MANCHON DE POLYMERE RESISTANT A L'EAU DANS UN RENFORT DE COURBURE DE TUYAU METALLIQUE**

[72] RABELO, ALEXANDRE SOARES, BR

[72] LOPES, VOLNEY SOARES, BR

[72] MOTTA, ANTONIO MARCOS REGO, BR

[73] PETROLEO BRASILEIRO S.A. - PETROBRAS, BR

[86] (2948538)

[87] (2948538)

[22] 2016-11-14

[30] BR (BR 10 2015 028933-2) 2015-11-18

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[11] **2,949,333**  
[13] C

[51] **Int.Cl. A62C 2/06 (2006.01) E04B 1/94 (2006.01) F16J 15/02 (2006.01) F16L 5/04 (2006.01)**

[25] EN

[54] **FIRE PROTECTION STRIP**

[54] **BANDE DE PROTECTION CONTRE L'INCENDIE**

[72] FORG, CHRISTIAN, DE

[72] MUNZENBERGER, HERBERT, DE

[73] HILTI AKTIENGESELLSCHAFT, LI

[85] 2016-11-16

[86] 2015-07-14 (PCT/EP2015/066012)

[87] (WO2016/008863)

[30] EP (14176992.7) 2014-07-15

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[11] **2,949,585**  
[13] C

[51] **Int.Cl. A61F 2/01 (2006.01) A61B 17/12 (2006.01)**

[25] EN

[54] **IMPROVED EMBOLIC PROTECTION DEVICE AND METHOD**

[54] **DISPOSITIF ET PROCEDE DE PROTECTION EMBOLIQUE AMELIOREE**

[72] KRAHBICHLER, ERIK, SE

[73] SWAT MEDICAL AB, SE

[85] 2016-11-18

[86] 2015-05-21 (PCT/EP2015/061340)

[87] (WO2015/177322)

[30] US (62/001,349) 2014-05-21

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[11] **2,949,833**  
[13] C

[51] **Int.Cl. A61K 35/74 (2015.01) A61K 8/99 (2017.01) G01N 33/48 (2006.01)**

[25] EN

[54] **METHODS OF PREPARING MATERIALS WITH AMMONIA OXIDIZING BACTERIA AND TESTING MATERIALS FOR AMMONIA OXIDIZING BACTERIA**

[54] **PROCEDES DE PREPARATION DE MATERIAUX AU MOYEN DE BACTERIES OXYDANT L'AMMONIAC ET DE TEST DE MATERIAUX EN CE QUI CONCERNE DES BACTERIES OXYDANT L'AMMONIAC**

[72] WHITLOCK, DAVID R., US

[72] HEYWOOD, JAMES, US

[72] JAMAS, SPIROS, US

[72] WEISS, LARRY, US

[73] AOBIOME LLC, US

[85] 2016-11-21

[86] 2015-05-21 (PCT/US2015/032017)

[87] (WO2015/179669)

[30] US (62/002,028) 2014-05-22

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[11] **2,953,185**  
[13] C

[51] **Int.Cl. H01L 29/41 (2006.01) B82Y 10/00 (2011.01) B82Y 40/00 (2011.01) H01L 29/06 (2006.01) H01L 29/43 (2006.01) H01L 29/45 (2006.01) H01L 29/66 (2006.01)**

[25] EN

[54] **A SEMICONDUCTOR JOSEPHSON JUNCTION AND A TRANSMON QUBIT RELATED THERETO**

[54] **JONCTION JOSEPHSON A SEMI-CONDUCTEUR ET BIT QUANTIQUE A TRANSMON ASSOCIE**

[72] MARCUS, CHARLES, DK

[72] KROGSTRUP, PETER, DK

[72] JESPERSEN, THOMAS SAND, DK

[72] NYGARD, JESPER, DK

[72] PETERSSON, KARL, DK

[72] LARSEN, THORVALD, DK

[72] KUEMMETH, FERDINAND, DK

[73] UNIVERSITY OF COPENHAGEN, DK

[85] 2016-12-21

[86] 2015-03-04 (PCT/EP2015/054522)

[87] (WO2016/000836)

[30] EP (14175342.6) 2014-07-02

[30] EP (15154459.0) 2015-02-10

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[11] **2,953,237**  
[13] C

[51] **Int.Cl. C07C 317/50 (2006.01) A61K 47/54 (2017.01) A61K 51/04 (2006.01) C07B 59/00 (2006.01) C07D 205/08 (2006.01) C07K 1/06 (2006.01)**

[25] EN

[54] **SULFUR(VI) FLUORIDE COMPOUNDS AND METHODS FOR THE PREPARATION THEREOF**

[54] **COMPOSES DE FLUORURE DE SOUFRE (VI) ET LEURS PROCEDES DE PREPARATION**

[72] DONG, JIAJIA, US

[72] SHARPLESS, K. BARRY, US

[72] KELLY, JEFFERY W., US

[72] CHEN, WENTAO, US

[72] BARANCZAK, ALEKSANDRA, US

[73] THE SCRIPPS RESEARCH INSTITUTE, US

[85] 2016-12-05

[86] 2015-06-05 (PCT/US2015/034516)

[87] (WO2015/188120)

[30] US (62/008,925) 2014-06-06

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[11] **2,955,192**  
[13] C

[51] **Int.Cl. H04B 7/204 (2006.01) H04W 16/26 (2009.01) H03F 3/68 (2006.01) H04B 7/12 (2006.01)**

[25] EN

[54] **MULTIPLE-PORT SIGNAL BOOSTERS**

[54] **AMPLIFICATEURS DE SIGNAUX A MULTIPLES PORTS**

[72] ASHWORTH, CHRISTOPHER K., US

[72] VAN BUREN, VERNON, US

[73] WILSON ELECTRONICS, LLC, US

[85] 2017-01-13

[86] 2015-07-23 (PCT/US2015/041720)

[87] (WO2016/014787)

[30] US (14/339,098) 2014-07-23

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[11] **2,955,308**  
[13] C

[51] **Int.Cl. B01F 35/83 (2022.01) B01F 23/10 (2022.01) G05D 11/00 (2006.01) G01N 37/00 (2006.01)**

[25] EN

[54] **GAS DILUTION SYSTEM**

[54] **SYSTEME DE DILUTION DE GAZ**

[72] ADAM, PETER, DE

[73] LINDE AG, DE

[86] (2955308)

[87] (2955308)

[22] 2017-01-17

[30] DE (10 2016 000 518.1) 2016-01-19

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[11] **2,957,001**  
[13] C

[51] **Int.Cl. H04H 60/72 (2009.01) H04H 60/17 (2009.01) H04H 60/27 (2009.01)**

[25] FR

[54] **IMPROVED INTERFACE FOR ACCESSING TELEVISION PROGRAMS**

[54] **INTERFACE PERFECTIONNEE D'ACCES A DES PROGRAMMES DE TELEVISION**

[72] BLANC, JEAN DAVID, FR

[73] MOLOTOV, FR

[85] 2017-02-01

[86] 2015-07-22 (PCT/FR2015/052019)

[87] (WO2016/020596)

[30] FR (FR1457555) 2014-08-04

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[11] **2,957,896**  
[13] C

[51] **Int.Cl. C09D 7/63 (2018.01) C08J 3/20 (2006.01) C08K 5/52 (2006.01) C08L 33/04 (2006.01) C09D 5/02 (2006.01) C09D 133/04 (2006.01)**

[25] EN

[54] **WATER-BASED COATING COMPOSITIONS THAT RESIST DIRT PICKUP**

[54] **COMPOSITIONS DE REVETEMENT A BASE D'EAU RESISTANT A LA RETENTION DE SALISSURES**

[72] HIBBEN, MARY JANE, US

[72] WILDMAN, MICHAEL, US

[72] KILLILEA, T. HOWARD, US

[72] HARVEY, IAIN, US

[73] SWIMC LLC, US

[85] 2017-02-09

[86] 2015-09-11 (PCT/US2015/049659)

[87] (WO2016/053595)

[30] US (62/049,613) 2014-09-12

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[11] **2,958,141**  
[13] C

[51] **Int.Cl. C12N 15/12 (2006.01) A61K 31/7088 (2006.01) A61K 38/37 (2006.01) A61K 48/00 (2006.01) A61P 7/04 (2006.01) C07K 14/755 (2006.01) C12N 15/85 (2006.01) C12N 15/86 (2006.01) C12N 15/864 (2006.01)**

[25] EN

[54] **AN IMPROVED EXPRESSION CASSETTE FOR PACKAGING AND EXPRESSION OF VARIANT FACTOR VIII FOR THE TREATMENT OF HEMOSTASIS DISORDERS**

[54] **CASSETTE D'EXPRESSION AMELIOREE POUR LE CONDITIONNEMENT ET L'EXPRESSION DE VARIANTES DU FACTEUR VIII POUR LE TRAITEMENT DES TROUBLES DE L'HEMOSTASE**

[72] SABATINO, DENISE, US

[72] ELKOUBY, LIRON, US

[72] HIGH, KATHERINE A., US

[73] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US

[85] 2017-02-13

[86] 2015-08-13 (PCT/US2015/045142)

[87] (WO2016/025764)

[30] US (62/036,936) 2014-08-13

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[11] **2,958,444**  
[13] C

[51] **Int.Cl. B62J 11/00 (2020.01) E05B 71/00 (2006.01)**

[25] EN

[54] **TWO-WHEELER ACCESSORY HOLDER WITH PIVOTING CLIPS**

[54] **SUPPORT D'ACCESSOIRE A DEUX ROUES COMPRENANT DES PINCES PIVOTANTES**

[72] MULLER, THOMAS, DE

[73] ABUS AUGUST BREMICKER SOHNE KG, DE

[86] (2958444)

[87] (2958444)

[22] 2017-02-17

[30] DE (102016104798.8) 2016-03-15

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[11] **2,959,181**  
[13] C

[51] **Int.Cl. A61N 1/372 (2006.01) A61B 90/00 (2016.01) A61N 1/05 (2006.01)**

[25] EN

[54] **DELIVERY SYSTEM FOR CARDIAC PACING**

[54] **SYSTEME DE POSE POUR STIMULATION CARDIAQUE**

[72] SANGHERA, RICK, US

[72] MARCOVECCHIO, ALAN, US

[72] MCGEEHAN, SEAN, US

[73] ATACOR MEDICAL, INC., US

[85] 2017-02-23

[86] 2015-09-04 (PCT/US2015/048717)

[87] (WO2016/037145)

[30] US (62/045,683) 2014-09-04

[30] US (62/083,516) 2014-11-24

[30] US (62/146,569) 2015-04-13



**Brevets canadiens délivrés**  
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[11] **2,959,891**  
[13] C

[51] **Int.Cl. A47L 9/24 (2006.01) A47L 5/24 (2006.01)**

[25] EN

[54] **ADJUSTABLE VACUUM TUBE CLAMP ASSEMBLY AND VACUUM CLEANERS INCLUDING SAME**

[54] **DISPOSITIF DE PINCE DU TUBE D'ASPIRATEUR AJUSTABLE ET ASPIRATEURS EQUIPES DUDIT DISPOSITIF**

[72] LUTZ, CHRISTOPHER, US  
[72] HILL, JASON, US  
[72] WILLIAMS, MATTHEW A., US  
[72] COOLEY, NICHOLAS JAMES, US  
[72] SCHULTZ, DOUGLAS C., US  
[72] SANDERS, JEREMY, US  
[73] EMERSON ELECTRIC CO., US  
[86] (2959891)  
[87] (2959891)  
[22] 2017-03-03  
[30] US (62/303,179) 2016-03-03  
[30] US (15/447,700) 2017-03-02

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[11] **2,959,894**  
[13] C

[51] **Int.Cl. A01F 15/08 (2006.01) A01F 15/00 (2006.01)**

[25] EN

[54] **EMERGENCY STOP DEVICE, BALE WRAPPING DEVICE AND HARVESTING APPLIANCE**

[54] **DISPOSITIF D'ARRET D'URGENCE, DISPOSITIF D'EMBALLAGE DE BALLE ET APPAREIL DE RECOLTE**

[72] CHAPON, EMMANUEL, FR  
[72] GUIET, LIONEL, FR  
[72] GUERIN, SEBASTIEN, FR  
[73] DEERE & COMPANY, US  
[86] (2959894)  
[87] (2959894)  
[22] 2017-03-03  
[30] DE (10 2016 205 527.5) 2016-04-04

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[11] **2,961,384**  
[13] C

[51] **Int.Cl. H04B 17/21 (2015.01) H04B 17/11 (2015.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR DYNAMICALLY CALIBRATING ONE OR MORE RADIOFREQUENCY CHANNELS OF A SATELLITE PAYLOAD**

[54] **SYSTEME ET METHODE D'ETALONNAGE DYNAMIQUE D'UN OU DE PLUSIEURS CANAUX DE RADIOFREQUENCE D'UNE CHARGE SATELLITAIRE**

[72] OSTER, YANN NICOLAS PIERRE, FR  
[72] LECOINTRE, AUBIN MICHEL, FR  
[73] THALES, FR  
[86] (2961384)  
[87] (2961384)  
[22] 2017-03-20  
[30] FR (1600565) 2016-04-04

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[11] **2,963,555**  
[13] C

[51] **Int.Cl. C07K 14/325 (2006.01) C12N 15/32 (2006.01)**

[25] EN

[54] **INSECTICIDAL POLYPEPTIDES HAVING IMPROVED ACTIVITY SPECTRUM AND USES THEREOF**

[54] **POLYPEPTIDES INSECTICIDES AYANT UN SPECTRE D'ACTIVITE AMELIORE ET LEURS UTILISATIONS**

[72] IZUMI WILLCOXON, MICHI, US  
[72] YAMAMOTO, TAKASHI, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[85] 2017-04-03  
[86] 2015-10-14 (PCT/US2015/055491)  
[87] (WO2016/061197)  
[30] US (62/064,877) 2014-10-16

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[11] **2,963,667**  
[13] C

[51] **Int.Cl. H04L 12/28 (2006.01) H04L 12/00 (2006.01) H04L 12/66 (2006.01) H04L 9/32 (2006.01)**

[25] EN

[54] **REMOTE MONITORING AND CONTROL SYSTEM FOR A BARRIER OPERATOR**

[54] **SYSTEME DE SURVEILLANCE ET DE COMMANDE A DISTANCE POUR UN OPERATEUR DE BARRIERE**

[72] BAKER, GEOFF, AU  
[72] HAWKINS, RAY, AU  
[72] KELLY, SIMON, AU  
[73] AUTOMATIC TECHNOLOGY (AUSTRALIA) PTY LTD, AU  
[85] 2017-04-05  
[86] 2015-10-13 (PCT/AU2015/050625)  
[87] (WO2016/058044)  
[30] AU (2014904091) 2014-10-13

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[11] **2,964,342**  
[13] C

[51] **Int.Cl. A01K 31/06 (2006.01) A01K 31/00 (2006.01) A01K 31/10 (2006.01)**

[25] EN

[54] **CONTAINER BASE, CONTAINER SEGMENT, CONTAINER COVER AND CONTAINER ASSEMBLY FOR HOLDING LIVE POULTRY AND METHOD FOR LOADING AND UNLOADING SUCH A CONTAINER ASSEMBLY**

[54] **BASE DE CONTENEUR, SEGMENT DE CONTENEUR, COUVERCLE DE CONTENEUR ET ENSEMBLE CONTENEUR POUR CONTENIR DE LA VOLAILLE VIVANTE, ET PROCEDE DE CHARGEMENT ET DE DECHARGEMENT D'UN TEL ENSEMBLE CONTENEUR**

[72] KROOT, MARCUS MARINUS GERARDUS, NL  
[72] HALFMAN, MARC JOHAN, NL  
[72] CLAESSENS, ROGER PIERRE HUBERTUS MARIA, NL  
[72] HIDDINK, WILBERT, NL  
[72] DE JONG, NICKY WILHELMUS JOHANNES HENDRIKUS, NL  
[73] MAREL STORK POULTRY PROCESSING B.V, AN  
[85] 2017-04-11  
[86] 2015-10-21 (PCT/NL2015/050728)  
[87] (WO2016/064270)  
[30] NL (2013674) 2014-10-23  
[30] NL (2014757) 2015-05-01

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[11] **2,965,624**  
[13] C

[51] **Int.Cl. G07F 11/00 (2006.01) A47F 10/02 (2006.01) A61F 13/84 (2006.01) A61F 13/15 (2006.01)**

[25] EN

[54] **VENDING MACHINE FOR RETAINING AND DISPENSING FEMININE HYGIENE PRODUCTS THROUGH A NOVEL COIN OPERATING APPARATUS**

[54] **MACHINE DISTRIBUTRICE DESTINEE A RETENIR ET DISTRIBUER DES PRODUITS D'HYGIENE FEMININE AU MOYEN D'UN NOUVEL APPAREIL FONCTIONNANT AVEC DES PIECES DE MONNAIE**

[72] MORAD, FRED I., US

[72] CAMP, WILLIAM P., JR., US

[72] BENECKE, ARNOLD G., US

[72] ACOSTA, ROBERT A., US

[73] TRANZONIC COMPANIES, US

[86] (2965624)

[87] (2965624)

[22] 2017-05-01

[30] US (15/143,619) 2016-05-01

[30] US (15/338,066) 2016-10-28

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[11] **2,965,641**  
[13] C

[51] **Int.Cl. A23L 7/109 (2016.01)**

[25] EN

[54] **PASTA WITH A NOVEL FORM**

[54] **PATE AYANT UNE FORME NOVATRICE**

[72] ROSSI, STEFANO, IT

[72] MARIANI, MANUEL, IT

[72] BARDIANI, ITALO, IT

[73] BARILLA G. E R. FRATELLI S.P.A., IT

[86] (2965641)

[87] (2965641)

[22] 2017-05-01

[30] IT (102016000048003) 2016-05-10

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[11] **2,966,396**  
[13] C

[51] **Int.Cl. A61H 35/00 (2006.01) A61H 33/00 (2006.01)**

[25] EN

[54] **FACE SOAKING DEVICE**

[54] **APPAREIL DE TREMPAGE DU VISAGE**

[72] TAYLOR, JOHN R., US

[73] TAYLOR, JOHN R., US

[86] (2966396)

[87] (2966396)

[22] 2017-05-10

[30] US (62/351,830) 2016-06-17

[30] US (15/581,919) 2017-04-28

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[11] **2,967,604**  
[13] C

[51] **Int.Cl. C09J 7/20 (2018.01) C09J 7/38 (2018.01) E04B 1/62 (2006.01) E04B 1/66 (2006.01)**

[25] FR

[54] **SELF-ADHESIVE WATER VAPOUR-PERMEABLE AIR AND MOISTURE BARRIER MEMBRANE**

[54] **MEMBRANE ADHESIVE BARRIERE CONTRE L'AIR ET L'HUMIDITE ET PERMEABLE A LA VAPEUR D'EAU**

[72] DURAND, HERVE, FR

[72] LESIRE, CHARLES, FR

[72] DE LA BROSE, ROLAND, FR

[73] ADHEX TECHNOLOGIES, FR

[86] (2967604)

[87] (2967604)

[22] 2017-05-16

[30] FR (16 55 516) 2016-06-14

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[11] **2,968,214**  
[13] C

[51] **Int.Cl. B32B 1/00 (2006.01) B32B 5/24 (2006.01) B32B 7/08 (2019.01) B32B 7/12 (2006.01) B32B 15/02 (2006.01) B32B 15/16 (2006.01) C23F 15/00 (2006.01) F01D 5/28 (2006.01)**

[25] EN

[54] **FAN BLADE WITH GALVANIC SEPARATOR**

[54] **PALE DE VENTILATEUR A SEPARATEUR GALVANIQUE**

[72] CHEUNG, KIN-LEUNG, CA

[73] PRATT & WHITNEY CANADA CORP., CA

[86] (2968214)

[87] (2968214)

[22] 2017-05-24

[30] US (15/361,052) 2016-11-24

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[11] **2,971,329**  
[13] C

[51] **Int.Cl. C10M 159/24 (2006.01) C10M 159/18 (2006.01)**

[25] EN

[54] **LUBRICATING OIL COMPOSITIONS FOR USE IN SPARK-IGNITED AND COMPRESSION-IGNITED INTERNAL COMBUSTION ENGINES**

[54] **COMPOSITIONS D'HUILE DE LUBRIFICATION A UTILISER DANS LES MOTEURS A COMBUSTION INTERNE ALLUMES PAR ETINCELLE OU PAR COMPRESSION**

[72] HARTLEY, JOSEPH PETER, GB

[73] INFINEUM INTERNATIONAL LIMITED, GB

[86] (2971329)

[87] (2971329)

[22] 2017-06-16

[30] EP (16177243.9) 2016-06-30

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[11] **2,971,653**  
[13] C

[51] **Int.Cl. C12N 9/10 (2006.01) C12P 21/00 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR PROTEIN GLYCOSYLATION**

[54] **COMPOSITIONS ET PROCEDES DE GLYCOSYLATION DE PROTEINES**

[72] HAAS, JURGEN, CH

[72] IHSEN, JULIAN, CH

[72] KOWARIK, MICHAEL THOMAS, CH

[72] SCHWEDE, TORSTEN FRANZ, CH

[72] THONY-MEYER, LINDA CHRISTIANE, CH

[73] GLAXOSMITHKLINE BIOLOGICALS S.A., BE

[85] 2017-06-19

[86] 2015-12-24 (PCT/EP2015/081229)

[87] (WO2016/107818)

[30] US (62/097,975) 2014-12-30

[30] US (62/098,071) 2014-12-30

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**11 juin 2024**

[11] **2,972,771**  
[13] C

- [51] **Int.Cl. A61K 31/517 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) A61K 31/4725 (2006.01) A61P 9/00 (2006.01) A61P 41/00 (2006.01)**
- [25] EN
- [54] **SUPPRESSION OF NEOINTIMAL FORMATION FOLLOWING VASCULAR SURGERY USING CDK8 INHIBITORS**
- [54] **SUPPRESSION DE FORMATION NEO-INTIMALE SUITE A UNE CHIRURGIE VASCULAIRE, A L'AIDE D'INHIBITEURS DE CDK8**
- [72] RONINSON, IGOR B., US
- [72] CUI, TAIXING, US
- [73] UNIVERSITY OF SOUTH CAROLINA, US
- [85] 2017-06-29
- [86] 2015-12-18 (PCT/US2015/066598)
- [87] (WO2016/100782)
- [30] US (62/093,478) 2014-12-18

[11] **2,973,177**  
[13] C

- [51] **Int.Cl. E04B 1/344 (2006.01) E04B 1/348 (2006.01) E04B 1/92 (2006.01) E04H 9/00 (2006.01)**
- [25] EN
- [54] **EXPANDABLE SAFE ROOM**
- [54] **CHAMBRE FORTE EXTENSIBLE**
- [72] KLEIN, AMOS, IL
- [73] KLEIN, AMOS, IL
- [85] 2017-07-06
- [86] 2016-06-08 (PCT/IL2016/050594)
- [87] (WO2016/199136)
- [30] IL (239282) 2015-06-08

[11] **2,973,719**  
[13] C

- [51] **Int.Cl. B65D 83/38 (2006.01) B65D 83/42 (2006.01) B65D 83/32 (2006.01) B65D 83/48 (2006.01) B65D 83/62 (2006.01)**
- [25] FR
- [54] **RING FOR SECURING A POUCH IN A PRESSURIZED DISPENSER AND METHOD FOR PRESSURIZING A PRESSURIZED DISPENSER FITTED WITH SUCH A RING**
- [54] **BAGUE POUR LA FIXATION D'UNE POCHE DANS UN DISTRIBUTEUR SOUS PRESSION ET PROCEDURE DE MISE SOUS PRESSION D'UN DISTRIBUTEUR SOUS PRESSION MUNI D'UNE TELLE BAGUE**
- [72] BOREL, BERNARD, FR
- [72] PELTIER, JEROME, FR
- [73] LINDAL FRANCE SAS, FR
- [85] 2017-07-12
- [86] 2016-02-03 (PCT/EP2016/052237)
- [87] (WO2016/124622)
- [30] FR (1550903) 2015-02-05

[11] **2,974,750**  
[13] C

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- [25] EN
- [54] **MOBILE HYBRID ELECTRIC REFRIGERATION SYSTEM**
- [54] **SYSTEME DE REFRIGERATION ELECTRIQUE HYBRIDE MOBILE**
- [72] ZAERI, SAEED, CA
- [72] JOHNSTON, PETER T., CA
- [73] VOLTA AIR TECHNOLOGY INC., CA
- [86] (2974750)
- [87] (2974750)
- [22] 2017-07-28
- [30] US (62/368,160) 2016-07-28

[11] **2,975,914**  
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- [25] EN
- [54] **AN ELECTROLYTIC SYSTEM FOR PRECIPITATION OF METALS FROM A RICH SOLUTION AND REGENERATION OF OXIDISING AGENTS**
- [54] **SYSTEME ELECTROLYTIQUE POUR LA PRECIPITATION DE METAUX D'UNE SOLUTION RICHE ET REGENERATION DES AGENTS OXYDANTS**
- [72] SIMPSON ALVAREZ, JAIME ROBERTO, CL
- [73] PROTECH SPA, CL
- [85] 2017-08-04
- [86] 2016-02-04 (PCT/CL2016/050005)
- [87] (WO2016/123726)
- [30] CL (274-2015) 2015-02-04

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- [25] EN
- [54] **ANTIMICROBIAL PEPTIDES**
- [54] **PEPTIDES ANTIMICROBIENS**
- [72] BACHNOFF, NIV, IL
- [72] COHEN-KUTNER, MOSHE, IL
- [73] OMNIX MEDICAL LTD., IL
- [85] 2017-08-04
- [86] 2016-02-17 (PCT/IL2016/050187)
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- [30] US (62/119,186) 2015-02-22

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- [25] EN
- [54] **HORIZONTAL GARAGE DOOR ASSEMBLY**
- [54] **ENSEMBLE DE PORTE DE GARAGE HORIZONTALE**
- [72] MALEJKO, TYLER, US
- [73] MALEJKO, TYLER, US
- [86] (2976501)
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[54] **SYSTEM AND METHOD FOR TREATING ITEMS WITH INSECTICIDE**  
[54] **SYSTEME ET PROCEDE DE TRAITEMENT D'ARTICLES A L'AIDE D'UN INSECTICIDE**  
[72] OLSON, JOELLE, US  
[72] TISCHLER, SHERRI, US  
[73] ECOLAB USA INC., US  
[85] 2017-08-25  
[86] 2016-02-26 (PCT/US2016/019823)  
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[54] **ROBOTIC ASSISTANCE IN SECURITY MONITORING**  
[54] **ASSISTANCE ROBOTISEE PENDANT UN CONTROLE DE SECURITE**  
[72] KERZNER, DANIEL, US  
[73] ALARM.COM INCORPORATED, US  
[85] 2017-09-11  
[86] 2016-03-14 (PCT/US2016/022361)  
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[54] **DEVICE FOR HANDHELD OPERATION AND METHOD THEREFORE**  
[54] **DISPOSITIF CONCU POUR LE FONCTIONNEMENT NOMADE ET SON PROCEDE**  
[72] OKVIST, PETER, SE  
[72] LINDEGREN, DAVID, SE  
[72] ARNGREN, TOMMY, SE  
[72] BURKERT, TILL, SE  
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
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[25] EN  
[54] **HINGED BAFFLE TRANSPORT TRAILER CONTAINER**  
[54] **CONTENANT DE REMORQUE DE TRANSPORT A CHICANE RETENUE PAR CHARNIERE**  
[72] HECK, CORY, CA  
[73] RECOVER ENERGY SERVICES INC., CA  
[86] (2980181)  
[87] (2980181)  
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[25] EN  
[54] **MULTIWAY VALVE WITH BYPASS CIRCUIT**  
[54] **VANNE A VOIES MULTIPLES A CIRCUIT DE DERIVATION**  
[72] ARRUS, PAOLO, IT  
[72] MOLINA, SAMUELE, IT  
[72] ZUFFELLATO, ANDREA, IT  
[72] ALBERGANTI, GIACOMO, IT  
[72] ROSA BRUSIN, MARCO, IT  
[73] GIACOMINI S.P.A., IT  
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[25] FR  
[54] **FARM FOR REARING INSECTS**  
[54] **ATELIER D'ELEVAGE D'INSECTES**  
[72] COMPARAT, SOLENE, FR  
[72] HUBERT, ANTOINE, FR  
[72] BERRO, FABRICE, FR  
[72] LEVON, JEAN-GABRIEL, FR  
[72] LAUNAY, FRANK, FR  
[72] SARTON DU JONCHAY, THIBAUT, FR  
[73] YNSECT, FR  
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[13] C

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[54] **APPAREIL DE MASSAGE CORPOREL**  
[72] CROSS, TERRY, US  
[73] RANGE OF MOTION PRODUCTS, LLC, US  
[85] 2017-10-03  
[86] 2016-04-08 (PCT/US2016/026836)  
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[54] **DRUG CONJUGATES COMPRISING ANTIBODIES AGAINST CLAUDIN 18.2**  
[54] **CONJUGUES DE MEDICAMENTS COMPRENANT DES ANTICORPS CONTRE LA CLAUDINE 18.2**  
[72] SAHIN, UGUR, DE  
[72] TURECI, OZLEM, DE  
[72] WALTER, KORDEN, DE  
[72] KREUZBERG, MARIA, DE  
[72] MITNACHT-KRAUS, RITA, DE  
[72] LE GALL, FABRICE, DE  
[72] JACOBS, STEFAN, DE  
[73] TRON - TRANSLATIONALE ONKOLOGIE AN DER UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITÄT MAINZ GGMH, DE  
[73] ASTELLAS PHARMA INC., JP  
[85] 2017-10-11  
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[25] EN  
[54] **TARGETING NAD+ TO TREAT CHEMOTHERAPY AND RADIOTHERAPY INDUCED COGNITIVE IMPAIRMENT, NEUROPATHIES, AND INACTIVITY**  
[54] **CIBLAGE DE NAD+ POUR TRAITER LA DEFICIENCE COGNITIVE, LES NEUROPATHIES ET L'INACTIVITE INDUITES PAR LA CHIMIOThERAPIE ET LA RADIOTHERAPIE**  
[72] SINCLAIR, DAVID A., US  
[72] WU, LINDSAY, AU  
[73] METRO INTERNATIONAL BIOTECH, LLC, US  
[85] 2017-10-27  
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[25] EN  
[54] **SYSTEMS AND METHODS FOR REDUCING PRESSURE AT AN OUTFLOW OF A DUCT**  
[54] **SYSTEMES ET PROCEDES POUR REDUCTION DE LA PRESSION AU NIVEAU D'UN ECOULEMENT SORTANT D'UN CONDUIT**  
[72] NITZAN, YAACOV, IL  
[72] YACOBY, MENASHE, IL  
[72] FELD, TANHUM, IL  
[73] WHITE SWELL MEDICAL LTD, IL  
[85] 2017-11-10  
[86] 2016-05-10 (PCT/IB2016/000685)  
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[13] C

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[25] EN  
[54] **ONE OR MORE DOORS WITH ONE OR MORE ANGLED SIDE FLANGES FOR ELECTRICAL PANEL ENCLOSURE**  
[54] **UNE OU PLUSIEURS PORTES AYANT UNE OU PLUSIEURS BRIDES LATERALES ANGULAIRES DESTINEES A UNE ENCEINTE DE PANNEAU ELECTRIQUE**  
[72] REESE, ROBERT J., US  
[72] HUGGINS, KEN, US  
[72] MEVIUS, JASON S., US  
[73] EATON INTELLIGENT POWER LIMITED, IE  
[86] (2985754)  
[87] (2985754)  
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[51] **Int.Cl. B65D 85/804 (2006.01) A47J 31/06 (2006.01) A47J 31/44 (2006.01)**  
[25] EN  
[54] **A CAPSULE, A SYSTEM FOR PREPARING A POTABLE BEVERAGE FROM SUCH A CAPSULE AND USE OF SUCH A CAPSULE IN A BEVERAGE PREPARATION DEVICE**  
[54] **CAPSULE, SYSTEME POUR PREPARER UNE BOISSON POTABLE A PARTIR D'UNE TELLE CAPSULE ET UTILISATION D'UNE TELLE CAPSULE DANS UN DISPOSITIF DE PREPARATION DE BOISSON**  
[72] DIJKSTRA, HIELKE, NL  
[72] GROOTHORNT, AREND HENDRIK, NL  
[72] VAN GAASBEEK, ERIK PIETER, NL  
[72] OTTENSCHOT, MARC HENRIKUS JOSEPH, NL  
[72] KAMERBEEK, RALF, NL  
[72] EIJSACKERS, ARMIN SJOERD, NL  
[72] FLAMAND, JOHN HENRI, NL  
[73] KONINKLIJKE DOUWE EGBERTS B.V., NL  
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[54] **STORAGE SYSTEM WITH ROBOT DEVICE**  
[54] **SYSTEME DE STOCKAGE COMPRENANT DISPOSITIF ROBOTIQUE**  
[72] HOGNALAND, INGVAR, NO  
[73] AUTOSTORE TECHNOLOGY AS, NO  
[85] 2017-11-17  
[86] 2016-06-10 (PCT/EP2016/063244)  
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[54] **OCCLUSION DEVICE FOR REVERSIBLE OCCLUSION OF A BIOLOGICAL TUBE**  
[54] **DISPOSITIF D'OCCLUSION POUR OCCLUSION REVERSIBLE D'UN CONDUIT BIOLOGIQUE**  
[72] LINDEBURG, NIELS, DK  
[73] VASDEBLOCK MEDICAL APS, DK  
[85] 2017-11-10  
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[87] (WO2016/180426)  
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[54] **CONNECTION ASSEMBLY FOR DIRECTING A MEDICAL LIQUID MODULE DE RACCORDEMENT POUR CONDUIRE UN FLUIDE MEDICAL**  
[72] BRANDENBURGER, TORSTEN, DE  
[73] FRESENIUS KABI DEUTSCHLAND GMBH, DE  
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[25] FR  
[54] **METHOD FOR STERILISING A PLATELET LYSATE**  
[54] **PROCEDE DE STERILISATION D'UN LYSAT PLAQUETTAIRE**  
[72] DELORME, BRUNO, FR  
[72] VIAU, SABRINA, FR  
[72] GOUDALIEZ, FRANCIS, FR  
[73] MACO PHARMA, FR  
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[25] EN  
[54] **METHODS AND SYSTEMS FOR EFFICIENTLY DOWNLOADING MEDIA ASSETS**  
[54] **PROCEDES ET SYSTEMES DE TELECHARGEMENT EFFICACE DE CONTENUS MULTIMEDIA**  
[72] BLOHOWIAK, AARON PETER, US  
[72] WERTH, RYAN, US  
[72] CHALOUHI, OLIVIER, US  
[72] VAISLER, OFER, US  
[72] PATEL, MILAN, US  
[73] ROVI GUIDES, INC., US  
[85] 2017-11-27  
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[13] C

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[25] EN  
[54] **REKEYABLE LOCK CYLINDER WITH ENHANCED TORQUE RESISTANCE**  
[54] **CYLINDRE DE SERRURE RECONFIGURABLE PRESENTANT UNE MEILLEURE RESISTANCE DE COUPLE**  
[72] FARAG, HANNA, US  
[72] ZHANG, JACK, CN  
[72] BLOOM, MARK S., US  
[72] LIN, JAMES, US  
[73] ASSA ABLOY AMERICAS RESIDENTIAL INC., US  
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[86] 2016-06-09 (PCT/US2016/036686)  
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[25] EN  
[54] **DISPOSABLE ADHESIVE SUBSTRATE ADAPTED TO BE ARRANGED ON A MEDICAL DEVICE**  
[54] **SUBSTRAT ADHESIF JETABLE CONCU POUR ETRE AGENCE SUR UN DISPOSITIF MEDICAL**  
[72] CHRISTIANSEN, CHRISTIAN, DK  
[72] HAUGLAND, MORTEN, DK  
[72] JACOBSEN, TOMMY, DK  
[72] VIDEBAEK, KARSTEN, DK  
[73] SUNSTAR SUISSE SA, CH  
[85] 2017-12-15  
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[25] EN  
[54] **SYSTEMS AND METHODS FOR LOCATING ITEMS IN A FACILITY**  
[54] **SYSTEMES ET PROCEDES POUR LOCALISER DES ARTICLES DANS UNE INSTALLATION**  
[72] SIMON, PIERRE-MICHEL G., FR  
[72] SANSUR, MICHAEL, US  
[73] SENSORMATIC ELECTRONICS LLC, US  
[85] 2018-01-03  
[86] 2016-06-03 (PCT/US2016/035822)  
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[25] EN

[54] **FREQUENCY THRESHOLD DETERMINATION FOR FREQUENCY-RESPONSIVE LOAD CONTROLLERS**

[54] **DETERMINATION DU SEUIL DE FREQUENCE POUR DES CONTROLEURS DE CHARGE REAGISSANT A LA FREQUENCE**

[72] LIAN, JIANMING, US  
[72] SUN, YANNAN, US  
[72] MARINOVICI, LAURENTIU D., US  
[72] KALSI, KARANJIT, US  
[72] HANSEN, JACOB, US  
[73] BATTELLE MEMORIAL INSTITUTE, US

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[86] 2016-04-22 (PCT/US2016/028901)  
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[54] **MEMBRANES, SEPARATORS, BATTERIES, AND METHODS**

[54] **MEMBRANES, SEPARATEURS, BATTERIES ET METHODES**

[72] SHI, LIE, US  
[72] WENSLEY, C. GLEN, US  
[72] ZHANG, ZHENGMIN, US  
[72] CHEMELEWSKI, KATHARINE, US  
[72] MA, JUNQING, US  
[72] SMITH, RONNIE E., US  
[72] CHO, KWANTAI, US  
[72] FANG, WEIFENG, US  
[72] ADAMS, CHANGQING WANG, US  
[72] MCCALLUM, IAN, US  
[72] NADA, JUN, US  
[72] WILLIAMS, SHANTE P., US  
[72] MANGUM, JACOB S., US  
[73] CELGARD, LLC, US

[85] 2018-01-10  
[86] 2016-07-22 (PCT/US2016/043489)  
[87] (WO2017/015535)  
[30] US (62/195,452) 2015-07-22  
[30] US (62/195,457) 2015-07-22  
[30] US (62/195,464) 2015-07-22  
[30] US (62/308,492) 2016-03-15

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[13] C

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[25] EN

[54] **SYSTEM AND METHOD FOR MANUFACTURING CEMENTITIOUS BOARDS WITH ON-LINE VOID DETECTION**

[54] **SYSTEME ET PROCEDE DE FABRICATION DE PANNEAUX CIMENTAIRES A DETECTION DE VIDE EN CONTINU**

[72] LASH, JASON, US  
[72] DELLANGELO, SCOTT M., US  
[72] EVERSOLE, LESLIE, US  
[73] UNITED STATES GYPSUM COMPANY, US

[85] 2018-02-02  
[86] 2016-08-03 (PCT/US2016/045244)  
[87] (WO2017/027276)  
[30] US (62/203,130) 2015-08-10  
[30] US (15/199,124) 2016-06-30

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[13] C

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/11 (2006.01) A61G 7/057 (2006.01)**

[25] EN

[54] **WIRELESS PATIENT MONITORING SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE DE PATIENT SANS FIL**

[72] AL-ALI, AMMAR, US  
[72] RATHS, CORNELIUS, US  
[73] MASIMO CORPORATION, US

[85] 2018-02-20  
[86] 2016-08-31 (PCT/US2016/049751)  
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[30] US (62/212,472) 2015-08-31  
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[13] C

[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4709 (2006.01) A61P 35/00 (2006.01) C07D 215/60 (2006.01) C07D 221/18 (2006.01) C07D 401/12 (2006.01) C07F 7/18 (2006.01)**

[25] EN

[54] **SALTS OF N-((7R)-4-[(3R,4R,5S)-3-AMINO-4-HYDROXY-5-METHYLPIPERIDIN-1-YL]-7-HYDROXY-6,7-DIHYDRO-5H-CYCLOPENTA[B]PYRIDIN-3-YL)-6-(2,6-DIFLUOROPHENYL)-5-FLUOROPYRIDINE-2-CARBOXAMIDE USED AS PIM KINASE INHIBITORS**

[54] **SELS DE N-((7R)-4-[(3R,4R,5S)-3-AMINO-4-HYDROXY-5-METHYLPIPERIDINE-1-YL]-7-HYDROXY-6,7-DIHYDRO-5H-CYCLOPENTA[B]PYRIDIN-3-YL)-(2,6-DIFLUOROPHENYL)-5-FLUOROPYRIDINE-2-CARBOXAMIDE UTILISES COMME INHIBITEURS DE PIM KINASE**

[72] JIA, ZHONGJIANG, US  
[72] CAO, GANFENG, US  
[72] LIN, QIYAN, US  
[72] PAN, YONGCHUN, US  
[72] QIAO, LEI, US  
[72] SHARIEF, VAQAR, US  
[72] SHI, CHONGSHENG ERIC, US  
[72] XIA, MICHAEL, US  
[72] ZHENG, CHANGSHENG, US  
[72] ZHOU, JIACHENG, US  
[72] LI, QUN, US  
[73] INCYTE CORPORATION, US

[85] 2018-03-06  
[86] 2016-09-09 (PCT/US2016/050925)  
[87] (WO2017/044730)  
[30] US (62/216,045) 2015-09-09  
[30] US (62/244,933) 2015-10-22

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[11] **2,997,827**  
[13] C

[51] **Int.Cl. F16K 3/02 (2006.01) F16K 3/20 (2006.01) F16K 3/30 (2006.01) F16K 3/316 (2006.01)**

[25] EN

[54] **SLIDE VALVE FOR CLOSING OFF A MEDIA-CONVEYING LINE**

[54] **SOUPAPE COULISSANTE POUR LA FERMETURE D'UNE LIGNE DE TRANSPORT DE MATERIAU**

[72] SIDLER, HANS-JOERG, CH

[73] SISTAG AG, CH

[85] 2018-03-07

[86] 2016-08-31 (PCT/EP2016/070509)

[87] (WO2017/045923)

[30] CH (01361/15) 2015-09-16

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[11] **2,998,091**  
[13] C

[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0735 (2010.01) C12N 5/074 (2010.01) C12N 5/0793 (2010.01) A61K 35/30 (2015.01) C12N 5/10 (2006.01) C12Q 1/02 (2006.01) A61K 35/545 (2015.01)**

[25] EN

[54] **METHOD FOR PRODUCING RETINAL TISSUE**

[54] **PROCEDE DE PRODUCTION D'UN TISSU RETINIEN**

[72] ANDO, SATOSHI, JP

[72] KURODA, TAKAO, JP

[72] SASAI, YOSHIKI (DECEASED), JP

[73] SUMITOMO CHEMICAL COMPANY, LIMITED, JP

[73] RIKEN, JP

[73] SUMITOMO PHARMA CO., LTD., JP

[85] 2018-03-08

[86] 2016-09-08 (PCT/JP2016/076523)

[87] (WO2017/043604)

[30] JP (2015-176897) 2015-09-08

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[11] **2,998,822**  
[13] C

[51] **Int.Cl. A61B 1/307 (2006.01) A61M 3/02 (2006.01)**

[25] EN

[54] **ADAPTER FOR INSTILLATION OF AGENTS INTO THE BLADDER THROUGH THE URETHRA WITHOUT CATHETER**

[54] **ADAPTATEUR POUR L'INSTILLATION D'AGENTS DANS LA VESSIE PAR L'URETRE SANS CATHETER**

[72] LOVASZ, SANDOR, HU

[72] RENYI, GABOR, HU

[72] GIBER, JANOS, HU

[73] LOVASZ, SANDOR, HU

[73] RENYI, GABOR, HU

[73] GIBER, JANOS, HU

[85] 2018-03-15

[86] 2016-09-15 (PCT/HU2016/000063)

[87] (WO2017/046621)

[30] HU (P1500419) 2015-09-16

[30] HU (P1500648) 2015-12-23

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[11] **2,999,128**  
[13] C

[51] **Int.Cl. A61K 31/737 (2006.01) A61K 35/74 (2015.01) A61P 35/04 (2006.01)**

[25] EN

[54] **AN ANTI-METASTATIC MARINE BACTERIAL EXOPOLYSACCHARIDE DERIVATIVE AND USES THEREOF**

[54] **DERIVE D'EXOPOLYSACCHARIDE BACTERIEN MARIN ANTI-METASTATIQUE ET SES UTILISATIONS**

[72] COLLIEC-JOUAULT, SYLVIA, FR

[72] SINQUIN, CORINNE, FR

[72] RATISKOL, JACQUELINE, FR

[72] HEYMANN, DOMINIQUE, FR

[72] RUIZ-VELASCO, CARMEN, US

[72] CHESNEAU, JULIE, FR

[73] INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER (IFREMER), FR

[73] CENTRE HOSPITALIER UNIVERSITAIRE DE NANTES, FR

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

[73] NANTES UNIVERSITE, FR

[85] 2018-03-19

[86] 2016-09-28 (PCT/EP2016/073035)

[87] (WO2017/055310)

[30] EP (15187107.6) 2015-09-28

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[11] **2,999,988**  
[13] C

[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/20 (2006.01) A61B 18/20 (2006.01) A61M 5/00 (2006.01) A61M 5/32 (2006.01) A61M 35/00 (2006.01) A61M 37/00 (2006.01)**

[25] EN

[54] **NEEDLING DEVICE AND DRUG APPLICATOR**

[54] **DISPOSITIF DE PIQURE ET APPLICATEUR DE MEDICAMENT**

[72] THARP, DAVID C., US

[72] KELLOGG, SCOTT, US

[72] CHASTAIN, DAVID P., US

[72] DERUNTZ, DANIEL, US

[72] ROBINSON, JASON, US

[72] WOLOS, GREG, US

[72] STAUDT, ALEX, US

[72] SMITH, DANIEL P., US

[72] MORSE, JUSTIN DAVID, US

[72] DIBELLA, ANTHONY VINCENT, US

[72] GORDON, JOSEPH, US

[72] ROLLINS, NATHAN, US

[73] FOLLICA, INC., US

[85] 2018-03-26

[86] 2016-09-27 (PCT/US2016/053972)

[87] (WO2017/054009)

[30] US (62/233,373) 2015-09-27

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[11] **3,001,686**  
[13] C

[51] **Int.Cl. A47J 31/36 (2006.01)**

[25] EN

[54] **APPARATUS FOR MAKING BEVERAGES BY PASSING HOT WATER IN A CAPSULE CONTAINING A FOOD SUBSTANCE**

[54] **APPAREIL POUR LA FABRICATION DE BOISSONS PAR PASSAGE D'EAU CHAUDE DANS UNE CAPSULE CONTENANT UNE SUBSTANCE ALIMENTAIRE**

[72] CHANINE, VALERIY, IT

[72] ALVAREZ VIRTOLI, ITALO ANDREA, IT

[73] CAFFITALY SYSTEM S.P.A., IT

[85] 2018-04-10

[86] 2016-10-07 (PCT/IB2016/056011)

[87] (WO2017/068448)

[30] IT (102015000064543) 2015-10-22



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[11] **3,001,860**  
[13] C

[51] **Int.Cl. A61D 7/00 (2006.01) A01K 13/00 (2006.01) A61D 1/02 (2006.01)**

[25] EN

[54] **AUTOMATED CAGED BIRD SPRAY APPLICATOR SYSTEM**

[54] **SYSTEME AUTOMATISE DE PULVERISATEUR POUR OISEAUX EN CAGE**

[72] LESLIE, CHRISTOPHER DAVIS, US

[72] BARRANON, FRANCISCO JAVIER ROJO, MX

[72] ESPINOSA, HECTOR VALDEMAR GARCIA, MX

[73] BOEHRINGER INGELHEIM ANIMAL HEALTH USA INC., US

[85] 2018-04-12

[86] 2016-10-13 (PCT/US2016/056859)

[87] (WO2017/066457)

[30] US (62/240,926) 2015-10-13

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[11] **3,001,913**  
[13] C

[51] **Int.Cl. A01N 33/12 (2006.01) A01N 25/10 (2006.01) A01N 47/44 (2006.01) A61L 2/00 (2006.01) A61L 29/00 (2006.01) A61L 31/00 (2006.01) A61L 33/00 (2006.01) C08K 5/00 (2006.01)**

[25] EN

[54] **BIOCIDALLY ACTIVE POLYMER COMPOSITIONS**

[54] **COMPOSITIONS POLYMERES A ACTIVITE BIOCIDES**

[72] DAY, ROGER W., US

[72] ZHANG, HUA, US

[72] WOOFER, RICHARD, US

[72] MAKAL, UMIT G., US

[73] LUBRIZOL ADVANCED MATERIALS, INC., US

[85] 2018-04-12

[86] 2016-10-12 (PCT/US2016/056531)

[87] (WO2017/066242)

[30] US (62/240,090) 2015-10-12

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[11] **3,002,399**  
[13] C

[51] **Int.Cl. C12M 1/34 (2006.01) C12N 5/0793 (2010.01) C12N 5/0797 (2010.01) C12M 3/00 (2006.01)**

[25] EN

[54] **MICROFLUIDIC MODEL OF THE BLOOD BRAIN BARRIER**

[54] **MODELE MICROFLUIDIQUE DE LA BARRIERE HEMATO-ENCEPHALIQUE**

[72] KERNS, S. JORDAN, US

[72] WEN, NORMAN, US

[72] LUCCHESI, CAROL, US

[72] HINOJOSA, CHRIS, US

[72] FRASER, JACOB, US

[72] HAMILTON, GERALDINE, US

[72] VATINE, GAD, US

[72] SANCES, SAMUEL, US

[72] SVENDSEN, CLIVE, US

[72] LEVNER, DANIEL, US

[72] SAREEN, DHRUV, US

[73] CEDARS-SINAI MEDICAL CENTER, US

[73] EMULATE, INC., US

[85] 2018-04-17

[86] 2016-10-19 (PCT/US2016/057724)

[87] (WO2017/070224)

[30] US (62/243,642) 2015-10-19

[30] US (62/277,723) 2016-01-12

[30] US (62/332,727) 2016-05-06

[30] US (62/380,780) 2016-08-29

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[11] **3,002,916**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/14 (2006.01)**

[25] EN

[54] **GASTRIC RESIDENCE SYSTEMS FOR SUSTAINED RELEASE OF THERAPEUTIC AGENTS AND METHODS OF USE THEREOF**

[54] **SYSTEMES A DEMEURE GASTRIQUES POUR LIBERATION PROLONGEE D'AGENTS THERAPEUTIQUES ET LEURS PROCEDES D'UTILISATION**

[72] KANASTY, ROSEMARY, US

[72] BELLINGER, ANDREW, US

[72] GARDNER, COLIN, US

[72] GRANT, TYLER, US

[72] MOORTHY, SAUMYA, US

[73] LYNDRAS THERAPEUTICS, INC., US

[85] 2018-04-20

[86] 2016-10-21 (PCT/US2016/058309)

[87] (WO2017/070612)

[30] US (62/245,797) 2015-10-23

[30] US (62/245,789) 2015-10-23

[30] US (62/264,799) 2015-12-08

[30] US (62/264,795) 2015-12-08

[30] US (62/264,806) 2015-12-08

[30] US (62/402,947) 2016-09-30

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[11] **3,004,411**  
[13] C

[51] **Int.Cl. B41F 7/20 (2006.01) B41F 7/02 (2006.01) B41M 1/06 (2006.01) B41M 1/14 (2006.01) B41M 1/40 (2006.01)**

[25] EN

[54] **PRODUCING ARTICLES WITH MULTIPLE COLOR INKS**

[54] **PRODUCTION D'ARTICLES AVEC DE MULTIPLES ENCREES COLOREES**

[72] LINEBERRY, ALLEN, US

[73] THE COCA-COLA COMPANY, US

[85] 2018-05-04

[86] 2016-11-07 (PCT/US2016/000111)

[87] (WO2017/078764)

[30] US (62/251,753) 2015-11-06

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[11] **3,004,849**  
[13] C

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 31/415 (2006.01) A61K 47/34 (2017.01) A61P 19/02 (2006.01)**

[25] EN

[54] **A METHOD FOR MORSELIZING AND/OR TARGETING PHARMACEUTICALLY ACTIVE PRINCIPLES TO SYNOVIAL TISSUE**

[54] **PROCEDE DE MORCELLEMENT ET/OU DE CIBLAGE DE PRINCIPES PHARMACEUTIQUEMENT ACTIFS VERS UN TISSU SYNOVIAL**

[72] GAUDRIAULT, GEORGES, FR  
[72] GRIZOT, SYLVESTRE, FR  
[72] HURTIG, MARK, CA  
[72] SHIVE, MATTHEW, US  
[73] MEDINCELL S.A., FR  
[85] 2018-05-09  
[86] 2016-11-16 (PCT/IB2016/001815)  
[87] (WO2017/085561)  
[30] US (62255778) 2015-11-16

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[11] **3,007,071**  
[13] C

[51] **Int.Cl. H01M 4/86 (2006.01) H01M 4/96 (2006.01) H01M 8/10 (2016.01)**

[25] EN

[54] **GAS DIFFUSION ELECTRODE**

[54] **ELECTRODE A DIFFUSION GAZEUSE**

[72] MIYAKE, TORU, JP  
[72] UTSUNOMIYA, MASAMICHI, JP  
[72] TANIMURA, YASUAKI, JP  
[72] SHIGETA, KAZUYO, JP  
[73] TORAY INDUSTRIES, INC., JP  
[85] 2018-05-31  
[86] 2016-12-16 (PCT/JP2016/087624)  
[87] (WO2017/110690)  
[30] JP (2015-251254) 2015-12-24

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[11] **3,007,181**  
[13] C

[51] **Int.Cl. C12N 9/64 (2006.01) A61K 47/64 (2017.01) A61K 38/48 (2006.01) A61P 17/02 (2006.01) C07K 7/06 (2006.01) C07K 7/08 (2006.01) C07K 19/00 (2006.01)**

[25] EN

[54] **COLLAGENASE-DERIVED PEPTIDES PROMOTE TISSUE REGENERATION AND WOUND HEALING**

[54] **LES PEPTIDES DERIVES DE LA COLLAGENASE ACTIVENT LA REGENERATION TISSULAIRE ET LA CICATRISATION DES PLAIES**

[72] HERMAN, IRA M., US  
[72] DEMIDOVA-RICE, TATIANA, IS  
[73] TUFTS UNIVERSITY, US  
[85] 2018-06-01  
[86] 2015-12-11 (PCT/US2015/065181)  
[87] (WO2016/094764)  
[30] US (62/091,444) 2014-12-12

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[11] **3,009,269**  
[13] C

[51] **Int.Cl. H02J 50/00 (2016.01) H02J 50/05 (2016.01) H05B 45/42 (2020.01) B08B 17/00 (2006.01) B63B 59/04 (2006.01) C23F 13/20 (2006.01)**

[25] EN

[54] **LOAD ARRANGEMENT AND ELECTRICAL POWER ARRANGEMENT FOR POWERING A LOAD**

[54] **AGENCEMENT DE CHARGE ET AGENCEMENT DE SOURCE D'ENERGIE ELECTRIQUE POUR ALIMENTER UNE CHARGE**

[72] VAN DELDEN, MARTINUS HERMANUS WILHELMUS MARIA, NL  
[73] KONINKLIJKE PHILIPS N.V., NL  
[85] 2018-06-20  
[86] 2016-12-22 (PCT/EP2016/082363)  
[87] (WO2017/109063)  
[30] EP (15202429.5) 2015-12-23

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[11] **3,009,270**  
[13] C

[51] **Int.Cl. H02J 50/05 (2016.01) B08B 17/00 (2006.01) B63B 59/04 (2006.01)**

[25] EN

[54] **LOAD ARRANGEMENT AND ELECTRICAL POWER ARRANGEMENT FOR POWERING A LOAD**

[54] **MONTAGE DE CHARGE ET MONTAGE D'ALIMENTATION ELECTRIQUE POUR ALIMENTER UNE CHARGE**

[72] VAN DELDEN, MARTINUS HERMANUS WILHELMUS MARIA, NL  
[73] KONINKLIJKE PHILIPS N.V., NL  
[85] 2018-06-20  
[86] 2016-12-15 (PCT/EP2016/081091)  
[87] (WO2017/108545)  
[30] EP (15202407.1) 2015-12-23

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[11] **3,009,304**  
[13] C

[51] **Int.Cl. B41N 1/12 (2006.01)**

[25] EN

[54] **IMPROVED FLEXOGRAPHY PRINTING**

[54] **FLEXOGRAPHIE AMELIOREE**

[72] WATTYN, BART MARK LUC, BE  
[73] XSYS PREPRESS N.V., BE  
[85] 2018-06-20  
[86] 2016-12-19 (PCT/EP2016/081732)  
[87] (WO2017/108684)  
[30] NL (2016019) 2015-12-23

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[11] **3,009,334**  
[13] C

[51] **Int.Cl. A23K 10/12 (2016.01) A23K 20/147 (2016.01) A23K 20/26 (2016.01)**

[25] EN

[54] **FERMENTED VEGETABLE PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME**

[54] **COMPOSITIONS DE PROTEINES VEGETALES FERMENTEES PROCEDES POUR LES PRODUIRE**

[72] BELL, ERIC, US  
[72] MERTZ, KEITH, US  
[72] PETERS, EUGENE MAX, JR., US  
[72] SOLLER, FABIO, US  
[72] WOO, ANTON, US  
[72] YEHA, HADI NAYEF, US  
[73] CARGILL, INCORPORATED, US  
[85] 2018-06-20  
[86] 2016-12-22 (PCT/US2016/068194)  
[87] (WO2017/112841)  
[30] US (62/271,047) 2015-12-22

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[11] **3,009,608**  
[13] C

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 31/337 (2006.01) A61K 31/7068 (2006.01) A61K 47/18 (2017.01) A61K 47/24 (2006.01) A61P 35/00 (2006.01) C07D 305/14 (2006.01) C07H 19/06 (2006.01) C07H 19/073 (2006.01)**

[25] EN

[54] **TREATMENT OF BREAST CANCER USING A COMBINATION OF A CATIONIC LIPOSOMAL FORMULATION OF TAXANE, A NON-LIPOSOMAL FORMULATION OF TAXANE AND A FURTHER ACTIVE AGENT**

[54] **TRAITEMENT DU CANCER DU SEIN AU MOYEN D'UNE ASSOCIATION D'UNE FORMULATION DE TAXANE LIPOSOMALE CATIONIQUE, D'UNE FORMULATION DE TAXANE NON LIPOSOMALE ET D'UN AUTRE PRINCIPE ACTIF**

[72] LIN, SIH-TING, CN  
[72] TSENG, HUI-YUAN, CN  
[72] TENG, HSIN-WEI, CN  
[73] SYNCORE BIOTECHNOLOGY CO., LTD, CN  
[73] CANCAP PHARMACEUTICAL LTD., CA  
[85] 2018-06-22  
[86] 2016-12-28 (PCT/IB2016/058055)  
[87] (WO2017/115301)  
[30] US (62/272,772) 2015-12-30

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[11] **3,009,761**  
[13] C

[51] **Int.Cl. H04B 1/04 (2006.01) H03F 1/32 (2006.01) H04L 27/26 (2006.01) H04B 7/06 (2006.01)**

[25] EN

[54] **MULTI-BEAM CREST FACTOR REDUCTION**

[54] **REDUCTION DE FACTEUR DE CRETE MULTI-FAISCEAU**

[72] NG, CHRIS TSUN KIT, US  
[72] CHEMBIL-PALAT, RAMESH, US  
[73] NEC ADVANCED NETWORKS, INC., US  
[85] 2018-06-26  
[86] 2016-12-22 (PCT/US2016/068174)  
[87] (WO2017/116929)  
[30] US (62/272,269) 2015-12-29

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[11] **3,010,917**  
[13] C

[51] **Int.Cl. B29B 9/06 (2006.01) B29B 7/74 (2006.01) B29B 7/80 (2006.01) B29B 7/32 (2006.01) B29B 7/46 (2006.01) B29B 7/88 (2006.01) B29B 9/16 (2006.01)**

[25] EN

[54] **INSTALLATION AND METHOD FOR MANUFACTURING CROSS-LINKABLE POLYETHYLENE COMPOUNDS**

[54] **INSTALLATION ET PROCEDE DE FABRICATION DE COMPOSES DE POLYETHYLENE RETICULABLES**

[72] LABBE, DENIS, FR  
[73] BUSS AG, CH  
[85] 2018-07-09  
[86] 2017-01-11 (PCT/IB2017/050117)  
[87] (WO2017/122122)  
[30] EP (16151519.2) 2016-01-15

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[11] **3,011,726**  
[13] C

[51] **Int.Cl. H04W 4/00 (2018.01) H04W 4/06 (2009.01) G06K 17/00 (2006.01)**

[25] EN

[54] **MID-RANGE READER INTERACTIONS**

[54] **INTERACTIONS DE LECTEUR MEDIAL**

[72] JIN, JING, US  
[72] BELLENGER, THOMAS, US  
[72] AABYE, CHRISTIAN, US  
[72] CARROLL, BRYAN, US  
[73] VISA INTERNATIONAL SERVICE ASSOCIATION, US  
[85] 2018-07-17  
[86] 2017-03-06 (PCT/US2017/020985)  
[87] (WO2017/152186)  
[30] US (62/303,986) 2016-03-04

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[11] **3,011,989**  
[13] C

[51] **Int.Cl. G01N 33/38 (2006.01) G01N 11/00 (2006.01) G01N 25/16 (2006.01)**

[25] EN

[54] **SYSTEMS, APPARATUS AND METHODS FOR OBTAINING MEASUREMENTS CONCERNING THE STRENGTH AND PERFORMANCE OF CONCRETE MIXTURES**

[54] **SYSTEMES, APPAREIL ET PROCEDES D'OBTENTION DE MESURES CONCERNANT LA RESISTANCE ET LA PERFORMANCE DE PATES DE BETON**

[72] RADJY, FARROKH F., US  
[73] QUIPIP, LLC, US  
[85] 2018-07-19  
[86] 2017-01-24 (PCT/US2017/014756)  
[87] (WO2017/132154)  
[30] US (62/287,072) 2016-01-26  
[30] US (62/343,587) 2016-05-31  
[30] US (62/356,354) 2016-06-29

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[11] **3,012,911**  
[13] C

[51] **Int.Cl. F25B 23/00 (2006.01) F25B 19/00 (2006.01) F01P 3/22 (2006.01)**  
[25] EN  
[54] **COMPRESSOR-LESS COOLING SYSTEM**  
[54] **SYSTEME DE REFROIDISSEMENT SANS COMPRESSEUR**  
[72] MARTIN, NICOLE Z., US  
[72] RICHTER, IRA Z., US  
[72] JIA, SHAOBO, US  
[73] HEATCRAFT REFRIGERATION PRODUCTS LLC, US  
[86] (3012911)  
[87] (3012911)  
[22] 2018-07-31  
[30] US (15/668,423) 2017-08-03

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[11] **3,013,283**  
[13] C

[51] **Int.Cl. A61B 3/00 (2006.01) A61B 34/20 (2016.01) A61B 3/10 (2006.01) A61B 3/12 (2006.01) A61B 3/13 (2006.01) A61B 5/06 (2006.01) A61F 9/007 (2006.01) G02B 21/36 (2006.01)**  
[25] EN  
[54] **VISUALIZATION SYSTEM FOR OPHTHALMIC SURGERY**  
[54] **SYSTEME DE VISUALISATION POUR CHIRURGIE OPHTALMIQUE**  
[72] HEEREN, TAMMO, US  
[73] ALCON INC., US  
[85] 2018-07-31  
[86] 2017-03-28 (PCT/IB2017/051775)  
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[54] **POSITIONING AND ALIGNMENT INSTRUMENT FOR INTRODUCING SURGICAL DEVICES INTO BONE**  
[54] **INSTRUMENT DE POSITIONNEMENT ET D'ALIGNEMENT POUR INTRODUIRE DES DISPOSITIFS CHIRURGICAUX DANS UN OS**  
[72] EBRAHIMI, HAMID, CA  
[72] WHYNE, CARI MARISA, CA  
[72] YEE, ALBERT J.M., CA  
[73] SUNNYBROOK RESEARCH INSTITUTE, CA  
[85] 2018-08-07  
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[25] EN  
[54] **BLOOD PUMP HOUSING DEVICE**  
[54] **DISPOSITIF DE LOGEMENT DE POMPE SANGUINE**  
[72] NAJAR, AZAD, SE  
[73] SCANDINAVIAN REAL HEART AB, SE  
[85] 2018-08-09  
[86] 2017-02-09 (PCT/EP2017/052837)  
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[30] SE (1650171-0) 2016-02-10  
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[54] **SYSTEM AND METHOD FOR CONTROLLING ASSET-RELATED ACTIONS VIA A BLOCKCHAIN**  
[54] **SYSTEME ET PROCEDE DE CONTROLE D'ACTIONS LIEES A DES ACTIFS VIA UNE CHAINE DE BLOCS**  
[72] WRIGHT, CRAIG STEVEN, GB  
[72] ALLEN, GAVIN, GB  
[73] NCHAIN HOLDINGS LIMITED, AG  
[85] 2018-08-15  
[86] 2017-02-14 (PCT/IB2017/050824)  
[87] (WO2017/145007)  
[30] GB (1603117.1) 2016-02-23  
[30] GB (1603123.9) 2016-02-23  
[30] GB (1603114.8) 2016-02-23  
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[30] GB (1606630.0) 2016-04-15  
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[25] EN  
[54] **DEVICE AND METHOD FOR RE-CONTOURING A GAS TURBINE BLADE**  
[54] **DISPOSITIF ET PROCEDE DE CORRECTION DE CONTOURS D'UNE AUBE DE TURBINE A GAZ**  
[72] PETERS, JAN OKE, DE  
[72] GARTNER, THOMAS, DE  
[72] SCHON, JOACHIM, DE  
[72] KUNTZAGK, STEFAN, DE  
[73] LUFTHANSA TECHNIK AG, DE  
[85] 2018-08-21  
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[25] FR  
[54] **FACTOR 1 INDUCTIVE SENSOR DEVICE**  
[54] **DISPOSITIF DETECTEUR INDUCTIF DE FACTEUR 1**  
[72] LOTZ, THOMAS, FR  
[73] SENSTRONIC (SOCIETE PAR ACTIONS SIMPLIFIEE), FR  
[85] 2018-08-21  
[86] 2017-03-15 (PCT/FR2017/050587)  
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[54] **A CAPSULE FOR PRODUCING BEVERAGES**  
[54] **CAPSULE DE PRODUCTION DE BOISSONS**  
[72] VALSECCHI, MASSIMILIANO, IT  
[72] FARAVELLI, MASSIMO, IT  
[73] GRUPPO GIMOKA S.R.L., IT  
[85] 2018-08-22  
[86] 2017-02-23 (PCT/IB2017/051044)  
[87] (WO2017/145091)  
[30] IT (102016000018671) 2016-02-23  
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[30] IT (102017000020172) 2017-02-22

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[25] EN  
[54] **SUBSTITUTED INHIBITORS OF MENIN-MLL AND METHODS OF USE**  
[54] **INHIBITEURS SUBSTITUES DE MENINE-MLL ET METHODES D'UTILISATION**  
[72] WU, TAO, US  
[72] LI, LIANSHENG, US  
[72] WANG, YI, US  
[72] REN, PINGDA, US  
[72] GREMBECKA, JOLANTA, US  
[72] CIERPICKI, TOMASZ, US  
[72] KLOSSOWSKI, SZYMON, US  
[72] POLLOCK, JONATHAN, US  
[72] BORKIN, DMITRY, US  
[73] KURA ONCOLOGY, INC., US  
[73] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US  
[85] 2018-08-24  
[86] 2017-03-15 (PCT/US2017/022564)  
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[30] US (62/309,372) 2016-03-16  
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[30] US (62/431,389) 2016-12-07  
[30] US (62/446,640) 2017-01-16

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[25] EN  
[54] **MEDICAL EXAMINATION GLOVES**  
[54] **GANTS D'EXAMEN MEDICAL**  
[72] GROS, ROBERT, GB  
[72] WIGHT, PAUL, GB  
[73] BMG (BRITISH MEDICAL GROUP) LIMITED, GB  
[85] 2018-08-29  
[86] 2017-02-28 (PCT/EP2017/054662)  
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[54] **DIRECT-FED MICROBIALS**  
[54] **MICROBES A ALIMENTATION DIRECTE**  
[72] KING, MICHAEL R., US  
[72] SON, SONA, US  
[72] LEISTIKOW, KYLE, US  
[72] AUGSPURGER, NATHAN ROBERT, US  
[73] MICROBIAL DISCOVERY GROUP, LLC, US  
[73] UNITED ANIMAL HEALTH, INC., US  
[85] 2018-08-29  
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[13] C

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[25] EN  
[54] **SYSTEMS AND METHODS FOR HDR VIDEO CAPTURE WITH A MOBILE DEVICE**  
[54] **SYSTEMES ET PROCEDES DE CAPTURE DE VIDEO A GRANDE GAMME DYNAMIQUE A L'AIDE D'UN DISPOSITIF MOBILE**  
[72] KISER, WILLIE C., US  
[72] TOCCI, NORA, US  
[72] TOCCI, MICHAEL D., US  
[73] CONTRAST, INC., US  
[85] 2018-08-31  
[86] 2017-02-10 (PCT/US2017/017405)  
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[30] US (62/294,820) 2016-02-12  
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[54] **SYSTEMS AND METHODS FOR DEVICE AUTHENTICATION**

[54] **SYSTEMES ET PROCEDES PERMETTANT UNE AUTHENTIFICATION DE DISPOSITIFS**

[72] HAMMAD, AYMAN, US

[72] CLARKE, SIMON, US

[73] JPMORGAN CHASE BANK, N.A., US

[85] 2018-09-13

[86] 2017-03-14 (PCT/US2017/022272)

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[25] EN

[54] **EXERCISE CHAIR UTILIZING AN ADJUSTABLE RESISTANCE BAND SYSTEM**

[54] **FAUTEUIL D'EXERCICES UTILISANT UN SYSTEME DE BANDES DE RESISTANCE REGLABLES**

[72] WEISZ, EVAN, US

[73] WEISZ, EVAN, US

[85] 2018-09-18

[86] 2017-03-24 (PCT/US2017/024009)

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[25] EN

[54] **PROCESS FOR PRODUCING A SYNTHESIS GAS**

[54] **PROCEDE DE PRODUCTION D'UN GAZ DE SYNTHESE**

[72] OSTUNI, RAFFAELE, CH

[72] FILIPPI, ERMANNO, CH

[73] CASALE SA, CH

[85] 2018-09-20

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[13] C

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[25] EN

[54] **USER INTERFACE SYSTEM AND METHODS FOR OVERLAYING SURGICAL VIDEO OUTPUT**

[54] **SYSTEME D'INTERFACE UTILISATEUR ET PROCEDES POUR SUPERPOSER UNE SORTIE VIDEO CHIRURGICALE**

[72] TODD, ROBIN ELIZABETH

MCKENZIE, CA

[72] MCFADZEAN, DAVID BRUCE, CA

[72] THOMAS, MONROE MILAS, CA

[72] LEITCH, SAM ANTHONY, CA

[73] SYNAPTIVE MEDICAL INC., CA

[86] (3019278)

[87] (3019278)

[22] 2018-10-01

[30] US (15/722,481) 2017-10-02

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[13] C

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[25] EN

[54] **SEPARATION DEVICE FOR SEPARATING A FLUID**

[54] **DISPOSITIF DE SEPARATION POUR SEPARER UN FLUIDE**

[72] MOSELEY, JONATHAN CHARLES, GB

[73] THE BIG SWING COMPANY LTD, GB

[85] 2018-09-28

[86] 2017-03-31 (PCT/GB2017/050922)

[87] (WO2017/168175)

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[25] EN

[54] **SOIL-LIKE MATERIAL AND METHOD OF MAKING A BARRIER FOR CONTAINING WASTE**

[54] **MATERIAU TERREUX ET PROCEDE DE FABRICATION D'UNE BARRIERE POUR CONTENIR DES DECHETS**

[72] HULL, JOHN H., US

[73] AQUABLOK, LTD., US

[85] 2018-10-03

[86] 2017-04-03 (PCT/US2017/025740)

[87] (WO2017/176632)

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[13] C

[51] **Int.Cl. A61B 5/282 (2021.01) A61B 5/274 (2021.01) A61B 5/333 (2021.01)**

[25] EN

[54] **ADHESIVE EXTENDER FOR MEDICAL ELECTRODE AND USE THEREOF WITH WEARABLE MONITOR**

[54] **EXTENSEUR ADHESIF POUR ELECTRODE MEDICALE ET SON UTILISATION AVEC UN MONITEUR PORTABLE**

[72] PAQUET, PIERRE, CA

[72] LEVESQUE, DAVID, CA

[72] FECTEAU, PIERRE, CA

[73] ICENTIA INC., CA

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[54] **ARGINASE INHIBITORS AND THEIR THERAPEUTIC APPLICATIONS**

[54] **INHIBITEURS D'ARGINASE ET LEURS APPLICATIONS THERAPEUTIQUES**

[72] BLASZCZYK, ROMAN, PL

[72] NOWICKA, JULITA, PL

[72] BOREK, BARTLOMIEJ, PL

[72] BRZEZINSKA, JOANNA, PL

[72] GZIK, ANNA, PL

[72] DZIEGIELEWSKI, MAREK, PL

[72] GOLEBIOWSKI, ADAM, US

[72] JEDRZEJCZAK, KAROL, PL

[72] MATYSZEWSKI, KRZYSZTOF, PL

[72] OLCZAK, JACEK, PL

[73] MOLECURE SPOLKA AKCYJNA, PL

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[25] EN  
[54] **OPTICAL ROTATION ANGLE MEASURING SYSTEM**  
[54] **SYSTEME DE MESURE D'ANGLE DE ROTATION OPTIQUE**  
[72] GUGGENMOS, MARKUS, DE  
[72] HARTMANN, MARTIN, DE  
[72] KIESBAUER, BERNHARD, DE  
[72] VELZEL, CHRISTIAAN H.F., NL  
[72] PEKELDER, SVEN, NL  
[72] VAN DER KLUIT, RINZE FREDERIK, NL  
[73] NOVANTA EUROPE GMBH, DE  
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[25] EN  
[54] **METHOD FOR INTEGRATING A FURTHER BUS SUBSCRIBER INTO A BUS SYSTEM, AND BUS SYSTEM**  
[54] **PROCEDE D'INTEGRATION D'UN AUTRE ABONNE DE BUS DANS UN SYSTEME DE BUS, ET SYSTEME DE BUS**  
[72] FUCHS, MANUEL, DE  
[73] SEW-EURODRIVE GMBH & CO. KG, DE  
[85] 2018-10-30  
[86] 2017-02-02 (PCT/EP2017/025017)  
[87] (WO2017/190842)  
[30] DE (10 2016 005 313.5) 2016-05-02

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[54] **AXIAL/RADIAL FLOW CONVERTER**  
[54] **CONVERTISSEUR DE FLUX AXIAL/RADIAL**  
[72] SPETH, CHRISTIAN HENRIK, DK  
[73] TOPSOE A/S, DK  
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[25] EN  
[54] **METHODS AND SYSTEMS FOR SELF-LUBRICATING ICEPHOBIC ELASTOMER COATINGS**  
[54] **PROCEDES ET SYSTEMES D'AUTO-LUBRIFICATION DE REVETEMENTS ELASTOMERES GLACIOPHOBES**  
[72] LOTH, ERIC, US  
[72] MILIONIS, ATHANASIOS, US  
[72] YEONG, YONG HAN, US  
[72] SOKHEY, JAGDISH S., US  
[73] LOTH, ERIC, US  
[73] MILIONIS, ATHANASIOS, US  
[73] YEONG, YONG HAN, US  
[73] SOKHEY, JAGDISH S., US  
[85] 2018-11-09  
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[87] (WO2017/196870)  
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[54] **CENTRE BIASED ACTUATOR**  
[54] **ACTIONNEUR INCLINE VERS LE CENTRE**  
[72] SHARPE, PETER, GB  
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB  
[86] (3024049)  
[87] (3024049)  
[22] 2018-11-13  
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[51] **Int.Cl. H04B 1/00 (2006.01) H04B 1/06 (2006.01) H04B 1/10 (2006.01) H04B 15/00 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR PERFORMING SIGNAL CONDITIONING TO MITIGATE INTERFERENCE DETECTED IN A COMMUNICATION SYSTEM**  
[54] **PROCEDE ET APPAREIL APRES A EXECUTER UN CONDITIONNEMENT DE SIGNAL AFIN D'ATTENUER UNE INTERFERENCE DETECTEE DANS UN SYSTEME DE COMMUNICATION**  
[72] TACCONI, PABLO, US  
[72] ABDELMONEM, AMR, US  
[72] ZIA, NAUMAN, US  
[73] ISCO INTERNATIONAL, LLC, US  
[85] 2018-11-13  
[86] 2017-05-24 (PCT/US2017/034237)  
[87] (WO2017/210056)  
[30] US (62/344,280) 2016-06-01  
[30] US (62/481,789) 2017-04-05  
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[51] **Int.Cl. C08J 11/10 (2006.01)**  
[25] EN  
[54] **A PROCESS FOR DEGRADING PLASTIC PRODUCTS**  
[54] **PROCEDE DE DEGRADATION DE PRODUITS PLASTIQUES**  
[72] DESROUSSEAU, MARIE-LAURE, FR  
[72] TEXIER, HELENE, FR  
[72] DUQUESNE, SOPHIE, FR  
[72] MARTY, ALAIN, FR  
[72] ALOUI DALIBEY, MEDIHA, FR  
[72] CHATEAU, MICHEL, FR  
[73] CARBIOS, FR  
[85] 2018-11-14  
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[87] (WO2017/198786)  
[30] EP (16305578.3) 2016-05-19

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[25] EN

[54] **A COATING METHOD, A THERMAL COATING AND A CYLINDER HAVING A THERMAL COATING**

[54] **PROCEDE DE REVETEMENT, REVETEMENT THERMIQUE AINSI QUE CYLINDRE PRESENTANT UN REVETEMENT THERMIQUE**

[72] ERNST, PETER, CH  
[72] LUTHY, PETER, CH  
[72] BOHNHEIO, CHRISTIAN, CH  
[72] STOCKLI, MARTIN, CH  
[72] MICHLA, ALEXANDER, DE  
[73] OERLIKON METCO AG, WOHLLEN, CH

[85] 2018-11-26  
[86] 2017-05-23 (PCT/EP2017/062422)  
[87] (WO2017/202852)  
[30] EP (16171839.0) 2016-05-27

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[13] C

[51] **Int.Cl. A61B 5/145 (2006.01) G16H 20/17 (2018.01) G16H 50/20 (2018.01) A61M 5/172 (2006.01)**

[25] EN

[54] **CONTROL-TO-RANGE FAILSAFES**

[54] **SECURITE INTEGREE POUR LE CONTROLE PAR RAPPORT A UNE PLAGE**

[72] DUKE, DAVID L., US  
[72] RINGEMANN, CHRISTIAN, DE  
[72] MANOHAR, CHINMAY UDAY, US  
[73] F. HOFFMANN-LA ROCHE AG, CH

[85] 2018-11-28  
[86] 2017-05-09 (PCT/US2017/031662)  
[87] (WO2017/209903)  
[30] US (15/170,425) 2016-06-01

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[13] C

[51] **Int.Cl. G21K 1/02 (2006.01) A61B 34/20 (2016.01) A61B 8/00 (2006.01) G01T 1/161 (2006.01) G01T 1/202 (2006.01)**

[25] EN

[54] **GAMMA PROBE AND MULTIMODAL INTRAOPERATIVE IMAGING SYSTEM**

[54] **SONDE GAMMA ET SYSTEME D'IMAGERIE PEROPERATOIRE MULTIMODAL**

[72] HOLDSWORTH, DAVID W., CA  
[72] TAVALLAEI, MOHAMMAD ALI, CA  
[72] MATHESON, JOHN, CA  
[72] PAREKH, ASHA, CA  
[73] HOLDSWORTH, DAVID W., CA  
[73] TAVALLAEI, MOHAMMAD ALI, CA  
[73] MATHESON, JOHN, CA  
[73] PAREKH, ASHA, CA

[85] 2018-11-30  
[86] 2017-05-31 (PCT/CA2017/050662)  
[87] (WO2017/205978)  
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[13] C

[51] **Int.Cl. G02B 6/122 (2006.01) G02B 6/12 (2006.01)**

[25] EN

[54] **RESIN OPTICAL WAVEGUIDE**

[54] **GUIDE D'ONDES OPTIQUE EN RESINE**

[72] OHARA, SEIKI, JP  
[72] KOBAYASHI, KENTA, JP  
[72] TAKENOBU, SHOTARO, JP  
[73] AGC INC., JP

[85] 2018-11-30  
[86] 2017-05-30 (PCT/JP2017/020131)  
[87] (WO2017/209137)  
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[13] C

[51] **Int.Cl. H02P 25/03 (2016.01) H02P 29/024 (2016.01) F02N 11/08 (2006.01)**

[25] FR

[54] **BRUSHLESS STARTER/GENERATOR**

[54] **DEMARREUR GENERATEUR SANS BALAIS**

[72] TUNZINI, MARC, FR  
[72] LE GUERROUE, ERIC, FR  
[72] BEDJAI, STANISLAS, FR  
[73] THALES, FR

[85] 2018-12-07  
[86] 2017-06-06 (PCT/EP2017/063726)  
[87] (WO2017/211838)  
[30] FR (1600909) 2016-06-07

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[11] **3,027,982**  
[13] C

[51] **Int.Cl. G06N 10/40 (2022.01) H01L 29/66 (2006.01)**

[25] EN

[54] **ELECTRONIC CIRCUIT FOR CONTROL OR COUPLING OF SINGLE CHARGES OR SPINS AND METHODS THEREFOR**

[54] **CIRCUIT ELECTRONIQUE POUR LA COMMANDE OU LE COUPLAGE DE CHARGES OU DE SPINS SIMPLES ET PROCEDES ASSOCIES**

[72] PIORO-LADRIERE, MICHEL, CA  
[72] ROCHETTE, SOPHIE, CA  
[72] KING GAMBLE, JOHN, US  
[72] TEN EYCK, GREGORY A, US  
[72] RUDOLPH, MARTIN, US  
[72] CARROLL, MALCOLM, US  
[73] SOCPRA SCIENCES ET GENIE S.E.C., CA

[73] NATIONAL TECHNOLOGY & ENGINEERING SOLUTIONS OF SANDIA, LLC., US

[85] 2018-11-29  
[86] 2017-06-08 (PCT/CA2017/050696)  
[87] (WO2017/210790)  
[30] US (62/347,346) 2016-06-08

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[11] **3,028,373**  
[13] C

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- [25] EN
- [54] **EXCHANGING NETWORK SERVER REGISTRATION CREDENTIALS OVER A D2D NETWORK**
- [54] **ECHANGE DE JUSTIFICATIFS D'ENREGISTREMENT DE SERVEUR DE RESEAU SUR UN RESEAU D2D**
- [72] MOHAN, PRASHANTH, US  
[72] PALANISAMY, SANTHANA, US  
[72] ANANDA, MANJUNATHA SUBBAMMA, US
- [73] QUALCOMM INCORPORATED, US
- [85] 2018-12-18  
[86] 2017-05-26 (PCT/US2017/034631)  
[87] (WO2018/017186)  
[30] US (15/214,080) 2016-07-19

[11] **3,029,206**  
[13] C

- [51] **Int.Cl. A61J 3/00 (2006.01) B65B 1/30 (2006.01)**
- [25] EN
- [54] **INSPECTION ASSISTANCE SYSTEM AND DRUG DISPENSER**
- [54] **SYSTEME D'AIDE A L'INSPECTION ET DISTRIBUTEUR DE MEDICAMENTS**
- [72] KOIKE, NAOKI, JP  
[72] TANAKA, TORU, JP  
[73] YUYAMA MFG. CO., LTD., JP
- [85] 2018-12-14  
[86] 2017-06-12 (PCT/JP2017/021645)  
[87] (WO2017/217366)  
[30] JP (2016-121290) 2016-06-17

[11] **3,029,466**  
[13] C

- [51] **Int.Cl. H04N 21/478 (2011.01) H04H 60/07 (2009.01) H04N 21/258 (2011.01) H04N 21/44 (2011.01) H04N 21/475 (2011.01) G06F 16/40 (2019.01)**
- [25] EN
- [54] **METHOD AND SYSTEM FOR TRANSFERRING AN INTERACTIVE FEATURE TO ANOTHER DEVICE**
- [54] **PROCEDE ET SYSTEME DESTINES AU TRANSFERT D'UNE FONCTION INTERACTIVE VERS UN AUTRE DISPOSITIF**
- [72] BLAKE, JOHN, US  
[72] PATEL, MILAN, US  
[72] YOUNG, ROWENA, US  
[72] BOURDON, JEAN MICHEL PIERRE, US
- [73] ROVI GUIDES, INC., US
- [85] 2018-12-27  
[86] 2017-06-27 (PCT/US2017/039489)  
[87] (WO2018/005482)  
[30] US (15/200,638) 2016-07-01

[11] **3,029,587**  
[13] C

- [51] **Int.Cl. A61L 9/12 (2006.01)**
- [25] EN
- [54] **FRAGRANCE DISPENSER WITH USER-SELECTABLE RELEASE RATE**
- [54] **DISTRIBUTEUR DE PARFUM A TAUX DE LIBERATION SELECTIONNABLE PAR L'UTILISATEUR**
- [72] SESHADRI, KANNAN, US  
[72] BALDERAS, BRENDA K., US  
[72] FLEISCHER, JORDAN A., US  
[72] MENKEN, FIONA E., US  
[72] SCHREPPPEL, DANIELLE M., US  
[73] 3M INNOVATIVE PROPERTIES COMPANY, US
- [85] 2018-12-28  
[86] 2017-06-27 (PCT/US2017/039400)  
[87] (WO2018/005423)  
[30] US (62/356,668) 2016-06-30

[11] **3,029,825**  
[13] C

- [51] **Int.Cl. E21B 43/10 (2006.01) E21B 17/20 (2006.01) E21B 19/22 (2006.01)**
- [25] EN
- [54] **DEVICE AND METHOD FOR THE IMPLEMENTATION OF A REFORMABLE TUBULAR STRUCTURE MADE OF COMPOSITE MATERIAL**
- [54] **DISPOSITIF ET PROCEDE POUR LA MISE EN OEUVRE D'UNE STRUCTURE TUBULAIRE REFORMABLE FAITE D'UN MATERIAU COPOSITE**
- [72] CARMINATI, STEFANO, IT  
[72] DI RENZO, DOMENICO ANTONIO, IT  
[72] FAVARETTO, MAURO, IT  
[72] ZAMPATO, MASSIMO, IT
- [73] ENI S.P.A., IT
- [85] 2019-01-03  
[86] 2017-07-13 (PCT/IB2017/054249)  
[87] (WO2018/011752)  
[30] IT (102016000073812) 2016-07-14

[11] **3,029,836**  
[13] C

- [51] **Int.Cl. H04W 4/30 (2018.01) H04W 4/02 (2018.01) H04W 4/40 (2018.01) H04W 4/80 (2018.01) G06Q 10/063 (2023.01) G06K 7/10 (2006.01) H04W 4/029 (2018.01) G06K 19/07 (2006.01)**
- [25] EN
- [54] **OBSERVATION BASED EVENT TRACKING**
- [54] **SUIVI D'EVENEMENTS BASE SUR L'OBSERVATION**
- [72] SWIFT, PHILIP W., US  
[73] CROWN EQUIPMENT CORPORATION, US
- [85] 2019-01-03  
[86] 2017-08-24 (PCT/US2017/048347)  
[87] (WO2018/039418)  
[30] US (62/379,724) 2016-08-25

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[11] 3,030,141  
[13] C

- [51] **Int.Cl. G01N 27/333 (2006.01)**  
[25] EN  
[54] **SENSOR WITH A MEMBRANE HAVING FULL CIRCUMFERENTIAL ADHESION**  
[54] **CAPTEUR A MEMBRANE AYANT UNE ADHERENCE CIRCONFERENCE TOTALE**  
[72] BROWN, RICHARD B., US  
[72] NOVAK, ONDREJ, US  
[73] E-SENS, INC., US  
[85] 2019-01-07  
[86] 2017-07-07 (PCT/US2017/041098)  
[87] (WO2018/009795)  
[30] US (15/204,371) 2016-07-07

[11] 3,030,313  
[13] C

- [51] **Int.Cl. A01N 25/00 (2006.01) A01N 25/10 (2006.01) A01P 3/00 (2006.01) A01P 5/00 (2006.01) A01P 7/00 (2006.01) A01P 13/00 (2006.01)**  
[25] EN  
[54] **METHODS FOR TREATING SEEDS WITH AN AQUEOUS COMPOSITION AND SEEDS TREATED THEREWITH**  
[54] **PROCEDES DE TRAITEMENT DE SEMENCES AVEC UNE COMPOSITION AQUEUSE ET SEMENCES TRAITEES AVEC CELLE-CI**  
[72] EKIN, ABDULLAH, US  
[72] THOMPSON-COLON, JAMES A., US  
[72] PIKE, TIMOTHY, US  
[72] GRACE, SCOTT, US  
[72] LI, JINQI, CN  
[72] REICHERT, RONALD, US  
[72] HANSON, WILLIAM S., US  
[73] COVESTRO LLC, US  
[73] BAYER CROPSCIENCE LP, US  
[85] 2019-01-08  
[86] 2017-07-03 (PCT/US2017/040577)  
[87] (WO2018/013380)  
[30] US (15/206,668) 2016-07-11

[11] 3,030,315  
[13] C

- [51] **Int.Cl. A01N 25/00 (2006.01) A01N 25/10 (2006.01) A01N 43/40 (2006.01) A01N 43/90 (2006.01) A01N 47/40 (2006.01) A01N 51/00 (2006.01) A01P 3/00 (2006.01) A01P 5/00 (2006.01) A01P 7/00 (2006.01) A01P 13/00 (2006.01)**  
[25] EN  
[54] **AQUEOUS COMPOSITIONS FOR TREATING SEEDS, SEEDS TREATED THEREWITH, AND METHODS FOR TREATING SEEDS**  
[54] **COMPOSITIONS AQUEUSES POUR LE TRAITEMENT DE SEMENCES, SEMENCES TRAITEES AVEC DE TELLES COMPOSITIONS, ET PROCEDES POUR LE TRAITEMENT DE SEMENCES**  
[72] EKIN, ABDULLAH, US  
[72] THOMPSON-COLON, JAMES A., US  
[72] PIKE, TIMOTHY, US  
[72] GRACE, SCOTT, US  
[72] LI, JINQI, CN  
[72] DOERR, SEBASTIAN, DE  
[72] REICHERT, RONALD, US  
[72] HANSON, WILLIAM S., US  
[73] COVESTRO LLC, US  
[73] BAYER CROPSCIENCE LP, US  
[73] COVESTRO DEUTSCHLAND AG, DE  
[85] 2019-01-08  
[86] 2017-07-03 (PCT/US2017/040578)  
[87] (WO2018/013381)  
[30] US (15/206,719) 2016-07-11

[11] 3,030,528  
[13] C

- [51] **Int.Cl. G01D 11/30 (2006.01) F16M 11/04 (2006.01) F16M 13/02 (2006.01) G01F 15/18 (2006.01) G01F 23/00 (2022.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR SEWER MONITORING**  
[54] **SYSTEMES ET PROCEDES DE SURVEILLANCE D'EGOUT**  
[72] LAMBE, JEAN-PAUL, AU  
[73] SOUTH EAST WATER CORPORATION, AU  
[85] 2019-01-08  
[86] 2017-07-13 (PCT/AU2017/050722)  
[87] (WO2018/009976)  
[30] AU (2016902783) 2016-07-15

[11] 3,030,538  
[13] C

- [51] **Int.Cl. B60W 30/12 (2020.01) B60W 30/165 (2020.01) B62D 6/00 (2006.01)**  
[25] EN  
[54] **TRAVEL CONTROL METHOD AND TRAVEL CONTROL APPARATUS**  
[54] **PROCEDE DE COMMANDE DE DEPLACEMENT ET DISPOSITIF DE COMMANDE DE DEPLACEMENT**  
[72] SATO, KO, JP  
[72] KOBAYASHI, MASAHIRO, JP  
[72] TAIRA, YASUHISA, JP  
[72] FUKATA, OSAMU, JP  
[73] NISSAN MOTOR CO., LTD., JP  
[85] 2019-01-10  
[86] 2017-06-13 (PCT/JP2017/021747)  
[87] (WO2018/012179)  
[30] JP (2016-138027) 2016-07-12

[11] 3,030,777  
[13] C

- [51] **Int.Cl. G01N 27/404 (2006.01) G01N 27/40 (2006.01) G01N 27/407 (2006.01) G01N 33/00 (2006.01)**  
[25] EN  
[54] **ELECTROCHEMICAL SENSOR WITH OPENING BETWEEN SOLID ELEMENTS**  
[54] **CAPTEUR ELECTROCHIMIQUE PRESENTANT UNE OUVERTURE ENTRE DES ELEMENTS SOLIDES**  
[72] PORSGAARD, SOREN, DK  
[72] LARSEN, LARS HAUER, DK  
[73] SULFILOGGER A/S, DK  
[85] 2019-01-14  
[86] 2017-07-14 (PCT/DK2017/050241)  
[87] (WO2018/010754)  
[30] EP (16179814.5) 2016-07-15  
[30] EP (16179812.9) 2016-07-15  
[30] EP (16179815.2) 2016-07-15

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[11] **3,031,956**

[13] C

- [51] **Int.Cl. H04L 9/00 (2022.01) H04L 9/08 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHODS FOR SECURELY DELIVERING DIGITAL CONTENT**  
[54] **APPAREIL ET METHODE DE DISTRIBUTION SURE DE CONTENU NUMERIQUE**  
[72] MILDEN, ROBERT, US  
[72] KENNEL, TERRI C., US  
[72] DAVIS, CHEMERE, US  
[72] HORD, MATT, US  
[72] RAO, ABHIJIT, US  
[73] THE TORONTO-DOMINION BANK, CA  
[86] (3031956)  
[87] (3031956)  
[22] 2019-01-30  
[30] US (15/885,241) 2018-01-31

[11] **3,032,673**

[13] C

- [51] **Int.Cl. H04L 61/10 (2022.01) H04L 61/30 (2022.01) H04L 67/1001 (2022.01) H04L 67/1006 (2022.01) H04L 12/16 (2006.01) H04L 67/02 (2022.01)**  
[25] EN  
[54] **ROUTING FOR LARGE SERVER DEPLOYMENTS**  
[54] **ROUTAGE DESTINE AU DEPLOIEMENT DE GRANDS SERVEURS**  
[72] GOODSITT, JEREMY, US  
[72] WALTERS, AUSTIN, US  
[72] ABDI TAGHI ABAD, FARDIN, US  
[73] CAPITAL ONE SERVICES, LLC, US  
[86] (3032673)  
[87] (3032673)  
[22] 2019-02-05  
[30] US (15/892,795) 2018-02-09

[11] **3,033,038**

[13] C

- [51] **Int.Cl. C01B 21/16 (2006.01) C07C 281/00 (2006.01) H01M 8/00 (2016.01)**  
[25] EN  
[54] **METHOD FOR STORING ENERGY IN THE FORM OF HYDRAZINE CARBONATE**  
[54] **PROCEDE POUR L'ACCUMULATION D'ENERGIE SOUS FORME DE CARBONATE D'HYDRAZINE**  
[72] HOLWEGGER, WALTER, DE  
[72] WEGENER, MORITZ, DE  
[72] MUSAYEV, YASHAR, DE  
[73] SCHAEFFLER TECHNOLOGIES AG & CO. KG, DE  
[85] 2019-02-05  
[86] 2017-09-22 (PCT/DE2017/100808)  
[87] (WO2018/095458)  
[30] DE (10 2016 223 001.8) 2016-11-22

[11] **3,033,691**

[13] C

- [51] **Int.Cl. B21D 22/16 (2006.01)**  
[25] EN  
[54] **METHOD FOR CHIPLESS PRODUCTION OF A ROTATIONALLY SYMMETRICAL BODY FROM A CIRCULAR SHEET METAL BLANK**  
[54] **PROCEDE POUR PRODUIRE UN CORPS A SYMETRIE DE ROTATION SANS ENLEVEMENT DE COPEAUX A PARTIR D'UN FLAN DE TOLE**  
[72] OHLSCHER, HEIKO, DE  
[72] MALKEMPER, CHRISTIAN, DE  
[72] RUDERT, BERND, DE  
[72] HECKER, KARL-HEINZ, DE  
[73] WINKELMANN POWERTRAIN COMPONENTS GMBH & CO. KG, DE  
[73] WF-MASCHINENBAU UND BLECHFORMTECHNIK GMBH & CO. KOMMANDITGESELLSCHAFT, DE  
[85] 2019-02-12  
[86] 2017-08-24 (PCT/EP2017/071312)  
[87] (WO2018/037070)  
[30] DE (10 2016 115 791.0) 2016-08-25

[11] **3,033,903**

[13] C

- [51] **Int.Cl. G01N 33/15 (2006.01) G01N 13/00 (2006.01)**  
[25] EN  
[54] **DEVICE, METHOD AND KIT FOR DISSOLUTION TESTING**  
[54] **DISPOSITIF, PROCEDE ET KIT DE TEST DE DISSOLUTION**  
[72] PESSI, JENNI, FI  
[72] SVANBACK, SAMI, FI  
[72] LASSILA, ILKKA, FI  
[72] YLIRUUSI, JOUKO, FI  
[73] NANOFORM FINLAND OYJ, FI  
[85] 2019-02-12  
[86] 2017-09-05 (PCT/FI2017/050624)  
[87] (WO2018/060547)  
[30] FI (20165728) 2016-09-29

[11] **3,034,180**

[13] C

- [51] **Int.Cl. B65G 43/02 (2006.01) B65G 41/00 (2006.01) B65G 43/00 (2006.01)**  
[25] EN  
[54] **A BELT RIP DETECTION SYSTEM**  
[54] **SYSTEME DE DETECTION DE DECHIRURE D'UNE COURROIE**  
[72] ASARPOTA, ANKIT, AU  
[72] DAVIES, BRETT, AU  
[72] GALVIN, TIM, AU  
[72] GRACE, ANDRE, AU  
[72] GREEN, MICK, AU  
[72] NEW, SHANE, AU  
[72] PIENAAR, GREG, AU  
[72] SURYAWINATA, EDWARD, AU  
[72] SUVARNA, SATYAJITH, AU  
[72] THOMAS, MICHAEL, AU  
[72] WHITE, JAMIE, AU  
[73] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU  
[85] 2019-02-15  
[86] 2017-08-09 (PCT/AU2017/050838)  
[87] (WO2018/032040)  
[30] AU (2016903274) 2016-08-18

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[11] **3,034,229**  
[13] C

[51] **Int.Cl. C08G 59/62 (2006.01) C08G 59/42 (2006.01) C08G 63/91 (2006.01) C08L 63/00 (2006.01) C08L 67/02 (2006.01)**

[25] EN

[54] **POLYESTER-EPOXIDE POLYMER COMPOSITIONS**

[54] **COMPOSITIONS DE POLYMERES POLYESTER-EPOXYDE**

[72] KAPLAN, WARREN A., US

[72] WESTFALL, JENNIFER S., US

[73] STEPAN COMPANY, US

[85] 2019-02-15

[86] 2017-08-08 (PCT/US2017/045860)

[87] (WO2018/038908)

[30] US (62/379,456) 2016-08-25

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[11] **3,037,535**  
[13] C

[51] **Int.Cl. G01R 19/00 (2006.01) G01R 19/25 (2006.01)**

[25] EN

[54] **A DEVICE FOR MEASURING ELECTRIC CURRENT**

[54] **UN DISPOSITIF DE MESURE DU COURANT ELECTRIQUE**

[72] DISSELNKOTTER, ROLF, DE

[72] OTTOBONI, ROBERTO, IT

[72] TOSCANI, SERGIO, IT

[73] ABB SCHWEIZ AG, CH

[86] (3037535)

[87] (3037535)

[22] 2019-03-21

[30] EP (18163223.3) 2018-03-22

[30] EP (18176757.5) 2018-06-08

[30] EP (18179296.1) 2018-06-22

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[11] **3,039,315**  
[13] C

[51] **Int.Cl. A23L 5/10 (2016.01) A23L 7/13 (2016.01) A23L 29/10 (2016.01) A23L 29/212 (2016.01)**

[25] EN

[54] **MANUFACTURE OF SNACK FOOD CHIPS**

[54] **FABRICATION DE CHIPS A GRIGNOTER**

[72] BHASKAR, AJAY RAJESHWAR, US

[72] BOODEN, HELEN CHARLOTTE, GB

[72] SMITH, KATHERINE MARGARET, GB

[72] VERA NUNEZ, DANIEL, GB

[73] FRITO-LAY TRADING COMPANY GMBH, CH

[85] 2019-04-03

[86] 2017-10-06 (PCT/EP2017/075475)

[87] (WO2018/065573)

[30] US (62/405,007) 2016-10-06

[30] GB (1701530.6) 2017-01-31

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[11] **3,039,856**  
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01)**

[25] EN

[54] **MICROFLUIDIC SYSTEM**

[54] **SYSTEME MICROFLUIDIQUE**

[72] MEDORO, GIANNI, IT

[72] CALANCA, ALEX, IT

[73] MENARINI SILICON BIOSYSTEMS S.P.A., IT

[85] 2019-04-09

[86] 2017-10-18 (PCT/IB2017/056473)

[87] (WO2018/073760)

[30] IT (102016000104601) 2016-10-18

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[11] **3,040,234**  
[13] C

[51] **Int.Cl. A21B 1/48 (2006.01) A21B 5/02 (2006.01)**

[25] EN

[54] **MACHINE FOR PRODUCING PANIGACCI**

[54] **MACHINE POUR LA PRODUCTION DE PANIGACCI**

[72] VENTURINI, ANDREA, IT

[72] VENTURINI, LUCA, IT

[72] VENTURINI, NICOLA, IT

[73] F.LLI VENTURINI S.R.L., IT

[85] 2019-04-11

[86] 2016-10-24 (PCT/IB2016/056390)

[87] (WO2017/068558)

[30] IT (102015000065029) 2015-10-23

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[11] **3,040,439**  
[13] C

[51] **Int.Cl. G01V 1/20 (2006.01) G01V 3/38 (2006.01)**

[25] EN

[54] **PETROPHYSICAL FIELD EVALUATION USING SELF-ORGANIZED MAP**

[54] **EVALUATION DE CHAMP PETROPHYSIQUE A L'AIDE D'UNE CARTE AUTO-ORGANISATRICE**

[72] WLODARCZYK, SYLVAIN, FR

[72] D'HALLUIN, FLORENT, FR

[73] SCHLUMBERGER CANADA LIMITED, CA

[85] 2019-04-12

[86] 2016-10-13 (PCT/IB2016/001592)

[87] (WO2018/069742)

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[11] **3,040,451**  
[13] C

[51] **Int.Cl. C08G 59/24 (2006.01)**

[25] EN

[54] **EPOXY RESIN, EPOXY RESIN COMPOSITION, EPOXY RESIN CURED PRODUCT, AND COMPOSITE MATERIAL**

[54] **RESINE EPOXYDE, COMPOSITION DE RESINE EPOXYDE, OBJET DURCI DE RESINE EPOXYDE, ET MATERIAU COMPOSITE**

[72] MARUYAMA, NAOKI, JP

[72] HIGASHIUCHI, TOMOKO, JP

[72] FUKUDA, KAZUMASA, JP

[72] YOSHIDA, YUKA, JP

[72] TAKEZAWA, YOSHITAKA, JP

[73] RESONAC CORPORATION, JP

[85] 2019-04-12

[86] 2017-10-13 (PCT/JP2017/037268)

[87] (WO2018/070535)

[30] JP (PCT/JP2016/080631) 2016-10-14

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[11] **3,044,012**

[13] C

- [51] **Int.Cl. B01D 53/14 (2006.01)**  
[25] EN  
[54] **VARIABLE SIDE COOLING FOR ACID GAS REMOVAL**  
[54] **REFROIDISSEMENT LATERAL VARIABLE POUR ELIMINATION DE GAZ ACIDE**  
[72] VAN WAGENSVELD, STEVEN, US  
[72] SCHULTE, DAVE, US  
[72] LYNCH, BRYANT, US  
[73] FLUOR TECHNOLOGIES CORPORATION, US  
[85] 2019-02-05  
[86] 2017-08-24 (PCT/US2017/048478)  
[87] (WO2018/044691)  
[30] US (62/381,138) 2016-08-30  
[30] US (15/684,776) 2017-08-23

[11] **3,044,791**

[13] C

- [51] **Int.Cl. B64C 25/34 (2006.01)**  
[25] EN  
[54] **LANDING GEAR ASSEMBLY**  
[54] **DISPOSITIF DE TRAIN D'ATTERRISSAGE**  
[72] BENNETT, IAN ROBERT, GB  
[73] SAFRAN LANDING SYSTEMS UK LIMITED, GB  
[86] (3044791)  
[87] (3044791)  
[22] 2019-05-29  
[30] EP (18175143.9) 2018-05-30

[11] **3,045,002**

[13] C

- [51] **Int.Cl. A01K 61/60 (2017.01)**  
[25] EN  
[54] **RING-SHAPED FISH FARMING SYSTEM**  
[54] **SYSTEME DE PISCICULTURE DE FORME ANNULAIRE**  
[72] TUFTE, NILS-JOHAN, NO  
[73] BLUEGREEN TECHNOLOGIES AS, NO  
[85] 2019-05-24  
[86] 2016-11-24 (PCT/NO2016/000029)  
[87] (WO2017/091079)  
[30] NO (20151612) 2015-11-25

[11] **3,045,161**

[13] C

- [51] **Int.Cl. C12N 5/10 (2006.01) A01H 5/00 (2018.01) A61K 39/395 (2006.01) A61P 39/00 (2006.01) A61P 39/02 (2006.01) C07K 16/16 (2006.01) C12N 15/13 (2006.01) C12N 15/40 (2006.01) C12N 15/54 (2006.01) C12N 15/82 (2006.01) C12P 21/08 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF RICIN ANTIBODIES IN PLANT**  
[54] **PRODUCTION D'ANTICORPS DE RICIN DANS UNE PLANTE**  
[72] HALL, J. CHRISTOPHER, CA  
[72] MEYERS, ASHLEY J., CA  
[72] TIWARI, KRISHNARAJ, CA  
[72] LATAWA, JYOTI, CA  
[73] HIS MAJESTY THE KING IN RIGHT OF CANADA AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE, CA  
[85] 2019-05-28  
[86] 2016-12-01 (PCT/CA2016/051412)  
[87] (WO2018/098553)

[11] **3,045,271**

[13] C

- [51] **Int.Cl. B67D 1/08 (2006.01)**  
[25] EN  
[54] **CONVERSION DEVICE FOR CONVERTING MANUAL LIQUID SUPPLY DEVICE INTO AUTOMATIC LIQUID SUPPLY DEVICE, AND ATTACHING PLATE PROVIDED TO CONVERSION DEVICE**  
[54] **DISPOSITIF DE CONVERSION PERMETTANT DE CONVERTIR UN DISPOSITIF D'ALIMENTATION EN LIQUIDE MANUEL EN UN DISPOSITIF D'ALIMENTATION EN LIQUIDE AUTOMATIQUE ET PROCEDE PERMETTANT DE FIXER LEDIT DISPOSITIF DE CONVERSION**  
[72] MITSUHATA, SHINSUKE, JP  
[72] TAKAHASHI, TOMOHIRO, JP  
[72] WADA, TAKASHI, JP  
[72] TANAKA, TORU, JP  
[72] KUSUNOKI, KENJI, JP  
[73] ASAHI GROUP HOLDINGS, LTD., JP  
[73] ASAHI BREWERIES, LTD., JP  
[85] 2019-05-28  
[86] 2017-09-08 (PCT/JP2017/032401)  
[87] (WO2018/100827)  
[30] JP (2016-230765) 2016-11-29

[11] **3,045,609**

[13] C

- [51] **Int.Cl. A23C 3/02 (2006.01) A01K 5/00 (2006.01) A01K 9/00 (2006.01) A23L 3/00 (2006.01) B65D 75/30 (2006.01) B65D 75/58 (2006.01)**  
[25] EN  
[54] **STORAGE BAG WITH JOINED CENTER PORTION**  
[54] **SAC DE STOCKAGE AVEC PARTIE CENTRALE ASSEMBLEE**  
[72] DUMM, RICHARD H., US  
[73] DAIRY TECH, LLC, US  
[85] 2019-05-30  
[86] 2017-08-01 (PCT/US2017/044817)  
[87] (WO2018/125291)  
[30] US (62/440,557) 2016-12-30  
[30] US (15/652,544) 2017-07-18

[11] **3,045,924**

[13] C

- [51] **Int.Cl. B08B 3/08 (2006.01) B08B 3/02 (2006.01)**  
[25] EN  
[54] **APPARATUS AND METHOD FOR CLEANING INDUSTRIAL PARTS**  
[54] **APPAREIL ET PROCEDE DE NETTOYAGE DE PIECES INDUSTRIELLES**  
[72] JASPER, FRANK RAYMOND, AU  
[72] JACOB, JOHN SNELL, AU  
[73] ROBOWASH PTY LTD., AU  
[85] 2019-06-03  
[86] 2017-12-13 (PCT/AU2017/000269)  
[87] (WO2018/107199)  
[30] US (62/433,520) 2016-12-13

[11] **3,046,600**

[13] C

- [51] **Int.Cl. A45D 42/00 (2006.01) A45D 42/10 (2006.01) F21V 33/00 (2006.01) F21K 9/00 (2016.01)**  
[25] EN  
[54] **TRAVEL MIRROR ASSEMBLY AND METHOD OF USE**  
[54] **ENSEMBLE MIROIR DE VOYAGE ET METHODE D'UTILISATION**  
[72] MCKELVEY, SANI, US  
[72] MCKELVEY, STEPHEN R., US  
[73] MCKELVEY, SANI, US  
[73] MCKELVEY, STEPHEN R., US  
[86] (3046600)  
[87] (3046600)  
[22] 2019-06-14  
[30] US (62/736,869) 2018-09-26

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[13] C

[51] **Int.Cl. G01N 33/566 (2006.01)**  
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[54] **BINDING ASSAY FOR DETERMINING MHC CLASS II BINDING ACTIVITY**  
[54] **ESSAIS DE LIAISON POUR LA DETERMINATION DE L'ACTIVITE DE LIAISON DU COMPLEXE MAJEUR D'HISTOCOMPATIBILITE DE CLASSE II**  
[72] CHEN, MIN, CN  
[72] JIA, JUSTIN XIAOQING, CN  
[73] IMMUTEP S.A.S., FR  
[85] 2019-06-11  
[86] 2017-12-18 (PCT/CN2017/116889)  
[87] (WO2018/113621)  
[30] CN (201611180971.4) 2016-12-19

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[11] **3,047,423**  
[13] C

[51] **Int.Cl. H04W 4/70 (2018.01) G05B 19/418 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR CONTROLLING PRODUCTION AND/OR DISTRIBUTION LINES**  
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE LIGNES DE PRODUCTION ET/OU DE DISTRIBUTION**  
[72] DE ANDRADE CHALAR DA SILVA, LUIS FELIPE, BR  
[72] DE CARVALHO COSTA, DIEGO, BR  
[72] DIAS PINHEIRO, VITOR, BR  
[72] MATTOS ALBERTO DOS SANTOS, LEONARDO RODRIGO DANIEL, US  
[73] SICPA HOLDING SA, CH  
[85] 2019-06-18  
[86] 2017-11-16 (PCT/EP2017/079444)  
[87] (WO2018/130325)  
[30] EP (PCT/EP2017/050785) 2017-01-16

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[13] C

[51] **Int.Cl. C07C 2/36 (2006.01) C07C 11/02 (2006.01) C07C 11/107 (2006.01)**  
[25] EN  
[54] **ETHYLENE OLIGOMERIZATION PROCESSES**  
[54] **PROCEDES D'OLIGOMERISATION DE L'ETHYLENE**  
[72] BISCHOF, STEVEN M., US  
[72] SMALL, BROOKE L., US  
[72] SNELL, RYAN W., US  
[72] KNUDSEN, RON D., US  
[72] NETEMEYER, ERIC J., US  
[72] SYDORA, ORSON L., US  
[72] SUTHERLAND, JAMIE N., US  
[72] KREISCHER, BRUCE E., US  
[72] FISHER, WILLIAM J., US  
[73] CHEVRON PHILLIPS CHEMICAL COMPANY LP, US  
[85] 2019-06-26  
[86] 2017-12-22 (PCT/US2017/068274)  
[87] (WO2018/128861)  
[30] US (15/394,317) 2016-12-29

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[13] C

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 35/76 (2015.01) A61K 38/50 (2006.01) A61P 3/00 (2006.01) A61P 25/28 (2006.01) C07K 14/015 (2006.01) C12N 5/10 (2006.01) C12N 7/01 (2006.01) C12N 15/864 (2006.01) C12N 15/87 (2006.01)**  
[25] EN  
[54] **CNS TARGETING AAV VECTORS AND METHODS OF USE THEREOF**  
[54] **VECTEURS AAV CIBLANT LE SYSTEME NERVEUX CENTRAL ET LEURS PROCEDES D'UTILISATION**  
[72] GAO, GUANGPING, US  
[72] ZHANG, HONGWEI, US  
[72] WANG, HONGYAN, US  
[72] XU, ZUOSHANG, US  
[73] UNIVERSITY OF MASSACHUSETTS, US  
[86] (3049237)  
[87] (3049237)  
[22] 2011-04-22  
[62] 2,833,908  
[30] US (61/327627) 2010-04-23

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[11] **3,050,368**  
[13] C

[51] **Int.Cl. A61F 2/44 (2006.01)**  
[25] EN  
[54] **MAGNETIC INTERVERTEBRAL DISC REPLACEMENT DEVICES AND METHODS THEREOF**  
[54] **APPAREILS MAGNETIQUES DE REMPLACEMENT D'UN DISQUE INTERVERTEBRAL ET METHODES CONNEXES**  
[72] COOK, STEPHEN D., US  
[72] HARRISON, MICHAEL C., US  
[72] NOLAN, LIAM P., US  
[72] PATRON, LAURA P., US  
[72] SALKELD, SAMANTHA L., US  
[73] GOMBOC, LLC, US  
[86] (3050368)  
[87] (3050368)  
[22] 2019-07-19  
[30] US (62/701,518) 2018-07-20  
[30] US (16/361,980) 2019-03-22

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[11] **3,052,250**  
[13] C

[51] **Int.Cl. C12N 5/00 (2006.01)**  
[25] EN  
[54] **METHODS TO GENERATE POLYMER SCAFFOLDS HAVING A GRADIENT OF CROSSLINKING DENSITY**  
[54] **PROCEDES POUR GENERER DES ECHAFAUDAGES POLYMERES AYANT UN GRADIENT DE DENSITE DE RETICULATION**  
[72] ALLBRITTON, NANCY, US  
[72] WANG, YULI, US  
[72] GUNASEKARA, HENNAYAKA MUDIYANSELAGE DULAN, US  
[72] SIMS, CHRISTOPHER, US  
[73] THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, US  
[85] 2019-07-31  
[86] 2017-07-25 (PCT/US2017/043601)  
[87] (WO2018/022548)  
[30] US (62/367,339) 2016-07-27

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[11] **3,053,433**  
[13] C

[51] **Int.Cl. H04W 64/00 (2009.01) H04W 16/28 (2009.01) H04W 88/08 (2009.01) G01S 5/02 (2010.01)**

[25] EN

[54] **APPARATUSES, SYSTEM AND METHODS FOR TRANSMISSION OF A POSITIONING SIGNAL**

[54] **APPAREILS, SYSTEME ET PROCEDES DE TRANSMISSION D'UN SIGNAL DE POSITIONNEMENT**

[72] KURRAS, MARTIN, DE

[72] THIELE, LARS, DE

[72] LANDMANN, MARKUS, DE

[72] GROSSMANN, MARCUS, DE

[72] HADASCHIK, NIELS, DE

[72] FRANKE, NORBERT, DE

[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2019-08-13

[86] 2018-01-31 (PCT/EP2018/052426)

[87] (WO2018/149648)

[30] EP (17155982.6) 2017-02-14

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[11] **3,056,370**  
[13] C

[51] **Int.Cl. G06Q 10/087 (2023.01)**

[25] EN

[54] **TIRE INVENTORY DECISION SUPPORT SYSTEM**

[54] **SYSTEME D'AIDE A LA DECISION D'INVENTAIRE DE PNEUS**

[72] SCHIMMELMANN, KEVIN, US

[72] LEVIN, ANDREJ, DE

[72] TAVARES, CHRISTOPHER B., US

[73] BRIDGESTONE AMERICAS TIRE OPERATIONS, LLC, US

[85] 2019-09-12

[86] 2018-03-07 (PCT/US2018/021285)

[87] (WO2018/169739)

[30] US (62/471,156) 2017-03-14

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[11] **3,056,830**  
[13] C

[51] **Int.Cl. G01R 31/66 (2020.01) G01R 31/50 (2020.01) G01R 31/68 (2020.01) B60D 1/62 (2006.01) B60R 16/02 (2006.01)**

[25] EN

[54] **TRAILER CONNECTOR**

[54] **CONNECTEUR DE REMORQUE**

[72] ARAKELIAN, RICHARD, AU

[72] MIRFENDERESKI, SHOJAEDDIN, AU

[72] KUO, HSUAN-CHI, AU

[73] ARK CORPORATION PTY LTD, AU

[86] (3056830)

[87] (3056830)

[22] 2019-09-25

[30] AU (2019900940) 2019-03-20

[30] AU (2019901186) 2019-04-05

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[11] **3,058,834**  
[13] C

[51] **Int.Cl. C05F 7/00 (2006.01) C02F 11/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A FERTILIZER PRODUCT**

[54] **METHODE DE PRODUCTION D'ENGRAIS**

[72] WARD, OWEN PATRICK, CA

[73] LYSTEK INTERNATIONAL CORP., CA

[86] (3058834)

[87] (3058834)

[22] 2019-10-16

[30] GB (1817017.5) 2018-10-18

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[11] **3,059,269**  
[13] C

[51] **Int.Cl. B63B 21/20 (2006.01) B63B 21/50 (2006.01) F16G 15/04 (2006.01)**

[25] EN

[54] **A RELEASE MECHANISM AND METHOD OF USE OF SAME**

[54] **MECANISME DE LIBERATION ET SON PROCEDE D'UTILISATION**

[72] PASTERNAK, JASON DAVID, US

[72] DOREY, PETER JAMES, US

[72] WINTHER, CHRISTIAN R., US

[72] SHELTON, JOHN, US

[72] VAN BIBBER, STEVEN W., US

[72] PEARLMAN, MICHAEL D., US

[73] DELMAR SYSTEMS, INC., US

[85] 2019-10-04

[86] 2018-04-07 (PCT/US2018/026634)

[87] (WO2018/187794)

[30] US (62/483,050) 2017-04-07

[30] US (62/483,601) 2017-04-10

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[11] **3,060,319**  
[13] C

[51] **Int.Cl. C25B 15/08 (2006.01) H01M 8/04082 (2016.01) H01M 8/04089 (2016.01) H01M 8/1018 (2016.01)**

[25] EN

[54] **ELECTROCHEMICAL DEVICE AND METHOD FOR OPERATING AN ELECTROCHEMICAL DEVICE**

[54] **DISPOSITIF ELECTROCHIMIQUE ET PROCEDE DE FONCTIONNEMENT D'UN DISPOSITIF ELECTROCHIMIQUE**

[72] HERRMANN, JOACHIM, DE

[72] ALLEBROD, FRANK, DE

[73] H-TEC SYSTEMS GMBH, DE

[85] 2019-10-17

[86] 2018-04-19 (PCT/EP2018/060123)

[87] (WO2018/193071)

[30] DE (10 2017 108 440.1) 2017-04-20

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[11] **3,062,436**  
[13] C

[51] **Int.Cl. B03D 1/00 (2006.01) B03D 1/004 (2006.01) C12N 1/20 (2006.01)**

[25] EN

[54] **MINERAL BENEFICIATION METHOD USING BIOREAGENT EXTRACTED FROM GRAM POSITIVE BACTERIA**

[54] **PROCEDE DE FLOTTATION DE MINERAUX FAISANT INTERVENIR UN BIOREACTIF EXTRAIT DE BACTERIES GRAM POSITIVES**

[72] TOREM, MAURICIO LEONARDO, BR

[72] PUELLES, JHONATAN GERARDO SOTO, PE

[72] MERMA, ANTONIO GUTIERREZ, BR

[72] OLIVERA, CARLOS ALBERTO CASTANEDA, BR

[72] DO ROSARIO, LISA MARINHO, BR

[72] SILVAS, FLAVIA PAULUCCI CIANGA, BR

[73] VALE S.A., BR

[85] 2019-11-05

[86] 2018-05-16 (PCT/BR2018/050158)

[87] (WO2018/209416)

[30] US (62/507,028) 2017-05-16

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[11] **3,063,000**  
[13] C

[51] **Int.Cl. B65G 1/04 (2006.01) B65G 1/00 (2006.01) B65G 1/02 (2006.01) B65G 1/08 (2006.01)**

[25] EN

[54] **SHIPPING BUFFER FOR AN ORDER-PICKING SYSTEM**

[54] **SEPARATEUR DE MANUTENTION POUR UN SYSTEME DE RAMASSAGE DE COMMANDES**

[72] WINKLER, WALTER, DE

[73] WITRON LOGISTIK + INFORMATIK GMBH, DE

[85] 2019-11-08

[86] 2018-05-11 (PCT/EP2018/062264)

[87] (WO2018/206801)

[30] DE (10 2017 110 373.2) 2017-05-12

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[11] **3,064,290**  
[13] C

[51] **Int.Cl. A61K 35/12 (2015.01) A61K 9/70 (2006.01)**

[25] EN

[54] **ELASTOMERIC FIBROUS HYBRID SCAFFOLD FOR IN VITRO AND IN VIVO TISSUE FORMATION**

[54] **ECHAFAUDAGE HYBRIDE FIBREUX ELASTOMERE POUR FORMATION IN VITRO ET IN VIVO**

[72] MASOUMI, NAFISEH, US

[73] THE CHILDREN'S MEDICAL CENTER CORPORATION, US

[85] 2019-11-19

[86] 2018-05-21 (PCT/US2018/033736)

[87] (WO2018/213842)

[30] US (62/508,832) 2017-05-19

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[11] **3,065,385**  
[13] C

[51] **Int.Cl. H04W 72/12 (2023.01)**

[25] EN

[54] **METHOD FOR TRANSMITTING SIGNAL, NETWORK DEVICE AND TERMINAL DEVICE**

[54] **PROCEDE D'EMISSION DE SIGNAL, DISPOSITIF RESEAU ET DISPOSITIF TERMINAL**

[72] YANG, NING, CN

[72] ZHANG, ZHI, CN

[72] TANG, HAI, CN

[73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN

[85] 2019-11-28

[86] 2017-06-15 (PCT/CN2017/088508)

[87] (WO2018/227496)

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[11] **3,063,249**  
[13] C

[51] **Int.Cl. F25B 47/02 (2006.01) F25B 5/02 (2006.01)**

[25] EN

[54] **COOLING SYSTEM**

[54] **SYSTEME DE REFROIDISSEMENT**

[72] ZHA, SHITONG, US

[72] SUN, XI, US

[73] HEATCRAFT REFRIGERATION PRODUCTS LLC, US

[86] (3063249)

[87] (3063249)

[22] 2019-11-29

[30] US (16/224,056) 2018-12-18

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[11] **3,065,044**  
[13] C

[51] **Int.Cl. C09K 11/06 (2006.01) C09B 69/10 (2006.01) C09K 11/02 (2006.01) C08G 61/10 (2006.01)**

[25] EN

[54] **POLYMER DYE MODIFICATION AND APPLICATIONS**

[54] **MODIFICATION ET APPLICATIONS DE COLORANTS POLYMERES**

[72] GULNIK, SERGEI, US

[72] EASWARAN, ARUNKUMAR, US

[72] TOMASULO, MASSIMILIANO, US

[73] BECKMAN COULTER, INC., US

[86] (3065044)

[87] (3065044)

[22] 2019-12-13

[30] US (62/780119) 2018-12-14

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[11] **3,066,134**  
[13] C

[51] **Int.Cl. A61K 31/545 (2006.01) A61K 9/06 (2006.01) A61K 31/167 (2006.01) A61K 31/192 (2006.01) A61P 17/00 (2006.01) A61P 31/04 (2006.01) A61Q 19/06 (2006.01)**

[25] EN

[54] **USE OF AN ANTIBIOTIC IN A TRANSDERMAL CREAM IN THE TREATMENT OF CELLULITIS AND PRE-OPERATIVE TREATMENT**

[54] **UTILISATION D'UN ANTIBIOTIQUE DANS UNE CREME TRANSDERMIQUE DANS LE TRAITEMENT DE LA CELLULITE ET LE TRAITEMENT PREOPERATOIRE**

[72] MUSITANO, PATRICK, CA

[72] ZALZAL, PAUL, CA

[73] 1000305261 ONTARIO INC O/A KAZM, CA

[86] (3066134)

[87] (3066134)

[22] 2019-12-27

[30] US (62/785,758) 2018-12-28

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[11] **3,064,133**  
[13] C

[51] **Int.Cl. B63C 11/16 (2006.01)**

[25] EN

[54] **SNORKEL WITH BUOYANT SUPPORT**

[54] **SCHNORKEL A SUPPORT FLOTTANT**

[72] SCHEEPERS, ANTHONY, CA

[73] SCHEEPERS, ANTHONY, CA

[85] 2019-11-15

[86] 2018-03-26 (PCT/CA2018/050365)

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[30] US (62/506,540) 2017-05-15



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[13] C

[51] **Int.Cl. F16C 11/02 (2006.01) F16C 9/04 (2006.01) F16C 33/04 (2006.01) F16C 33/10 (2006.01) F16J 1/16 (2006.01)**

[25] FR

[54] **MECHANICAL SYSTEM COMPRISING A SHAFT COUPLED TO A BEARING, AND METHOD FOR MANUFACTURING SUCH A SYSTEM**

[54] **SYSTEME MECANIQUE COMPRENANT UN AXE COUPLE A UN PALIER, ET PROCEDE DE FABRICATION D'UN TEL SYSTEME**

[72] DIEW, MOHAMADOU BOCAR, FR  
[72] GACHON, YVES RENE ALEXIS, FR  
[72] PROST, FABRICE, FR  
[73] H.E.F., FR  
[85] 2019-12-06  
[86] 2018-07-03 (PCT/FR2018/051649)  
[87] (WO2019/008266)  
[30] FR (1756265) 2017-07-03  
[30] FR (1756841) 2017-07-19

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[11] **3,066,639**  
[13] C

[51] **Int.Cl. G03F 7/20 (2006.01) B41C 1/05 (2006.01) G03F 7/24 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR WRITING IMAGEABLE MATERIAL USING MULTIPLE BEAMS**

[54] **PROCEDE ET APPAREIL D'ECRITURE DE MATERIAU POUVANT FAIRE L'OBJET D'UNE IMAGERIE A L'AIDE DE MULTIPLES FAISCEAUX**

[72] WATTYN, BART MARK LUC, BE  
[72] DE RAUW, DIRK LUDO JULIEN, BE  
[73] XSYS PREPRESS N.V., BE  
[85] 2019-12-09  
[86] 2018-06-07 (PCT/EP2018/065040)  
[87] (WO2018/228922)  
[30] NL (2019051) 2017-06-12

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[11] **3,066,900**  
[13] C

[51] **Int.Cl. G01D 18/00 (2006.01) G16H 40/40 (2018.01) G06N 20/00 (2019.01) G01N 27/416 (2006.01) G01N 37/00 (2006.01)**

[25] EN

[54] **METHOD AND STATE MACHINE SYSTEM FOR DETECTING AN OPERATION STATUS FOR A SENSOR**

[54] **PROCEDE ET SYSTEME DE MACHINE D'ETAT POUR DETECTER UN ETAT DE FONCTIONNEMENT POUR UN CAPTEUR**

[72] RUECKERT, FRANK, DE  
[72] WEILBACH, JULIANE, DE  
[72] NUERNBERG, FRANK-THOMAS, DE  
[73] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2019-12-10  
[86] 2018-06-29 (PCT/EP2018/067654)  
[87] (WO2019/002580)  
[30] EP (17178771.6) 2017-06-29

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[11] **3,067,125**  
[13] C

[51] **Int.Cl. B01L 3/00 (2006.01) B01L 7/00 (2006.01)**

[25] EN

[54] **A SAMPLE CARTRIDGE FOR INCUBATING AND/OR ANALYZING A DISPERSION OF PARTICLES, CELLS OR DROPLETS**

[54] **CARTOUCHE D'ECHANTILLON POUR INCUBER ET/OU ANALYSER UNE DISPERSION DE PARTICULES, DE CELLULES OU DE GOUTTELETTES**

[72] SCHULZ, TORSTEN, DE  
[72] ERMANTRAUT, EUGEN, DE  
[72] STEINMETZER, KATRIN, DE  
[72] WOLFF, ALRIK, DE  
[73] BLINK AG, DE  
[85] 2019-12-12  
[86] 2018-07-02 (PCT/EP2018/067819)  
[87] (WO2019/002622)  
[30] EP (17179194.0) 2017-06-30

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[11] **3,067,709**  
[13] C

[51] **Int.Cl. F28F 9/02 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) B29C 64/10 (2017.01)**

[25] EN

[54] **ADDITIVE MANUFACTURED HEADER FOR HEAT EXCHANGERS**

[54] **COLLECTEUR POUR ECHANGEURS DE CHALEUR REALISE PAR FABRICATION ADDITIVE**

[72] VADDER, DAVEY, US  
[73] EVAPCO, INC, US  
[85] 2019-12-17  
[86] 2018-06-28 (PCT/US2018/040092)  
[87] (WO2019/006168)  
[30] US (62/525,995) 2017-06-28  
[30] US (16/022,265) 2018-06-28

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[11] **3,067,791**  
[13] C

[51] **Int.Cl. B04C 5/18 (2006.01) B04C 5/24 (2006.01)**

[25] EN

[54] **HYDROCYCLONE SEPARATOR**

[54] **SEPARATEUR A HYDROCYCLONE**

[72] KNORR, BRIAN, US  
[72] GRONVALL, LARS, SE  
[72] GALLIMORE, MATT, US  
[73] METSO OUTOTEC SWEDEN AB, SE  
[85] 2019-12-18  
[86] 2018-06-22 (PCT/US2018/038938)  
[87] (WO2018/237238)  
[30] EP (17177480.5) 2017-06-22  
[30] US (15/966,900) 2018-04-30

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[11] **3,068,309**  
[13] C

[51] **Int.Cl. B65D 33/02 (2006.01) B65D 30/06 (2006.01)**

[25] EN

[54] **BAG WITH MULTI-LAYER SEAM STRUCTURE**

[54] **SAC A STRUCTURE DE COUTURE MULTICOUCHE**

[72] ANTONACCI, PAUL, US  
[73] ANCI, INC., US  
[85] 2019-12-20  
[86] 2018-06-29 (PCT/US2018/040261)  
[87] (WO2019/010076)  
[30] US (62/528,407) 2017-07-03  
[30] US (62/528,371) 2017-07-03

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[11] **3,069,230**  
[13] C

[51] **Int.Cl. A61B 5/00 (2006.01)**  
[25] EN  
[54] **PHYSIOLOGICAL MONITORING SYSTEM**  
[54] **SYSTEME DE SURVEILLANCE PHYSIOLOGIQUE**  
[72] NAGY, MICHAEL, US  
[72] ROWLAND, HARRY, US  
[72] JOHNSON, ARIEL, US  
[72] QUAS, BRETT, US  
[73] ENDOTRONIX, INC., US  
[85] 2020-01-06  
[86] 2018-07-19 (PCT/US2018/042887)  
[87] (WO2019/018644)  
[30] US (62/534,261) 2017-07-19

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[11] **3,069,620**  
[13] C

[51] **Int.Cl. C10M 159/12 (2006.01) C10M 163/00 (2006.01)**  
[25] EN  
[54] **PASSENGER CAR LUBRICATING OIL COMPOSITIONS FOR FUEL ECONOMY**  
[54] **COMPOSITIONS D'HUILE LUBRIFIANTE POUR VOITURE PARTICULIERE POUR L'ECONOMIE DE CARBURANT**  
[72] KUBO, KOICHI, JP  
[72] TAKEUCHI, YOSHITAKA, JP  
[72] KANAUCHI, MASAYA, JP  
[72] SONE, CHIHIRO, JP  
[72] SUEN, YAT FAN, US  
[72] MILLER, TREVOR W., US  
[73] CHEVRON JAPAN LTD., JP  
[73] CHEVRON ORONITE COMPANY LLC, US  
[85] 2020-01-10  
[86] 2018-09-28 (PCT/IB2018/057544)  
[87] (WO2019/069197)  
[30] US (15/726,652) 2017-10-06

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[11] **3,070,927**  
[13] C

[51] **Int.Cl. A23G 3/50 (2006.01) A23L 7/10 (2016.01) A23G 3/52 (2006.01) A23G 3/54 (2006.01)**  
[25] EN  
[54] **DRIED, TOASTED MARBITS AND METHOD OF PREPARING THE SAME**  
[54] **MORCEAUX DE GUIMAUVE SECHES ET GRILLES, ET LEUR PROCEDE DE PREPARATION**  
[72] BALLMAN, DARRYL J., US  
[72] ROBIE, STEVE C., US  
[73] GENERAL MILLS, INC., US  
[85] 2020-01-23  
[86] 2017-11-08 (PCT/US2017/060590)  
[87] (WO2019/094002)

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[11] **3,071,863**  
[13] C

[51] **Int.Cl. C25C 3/34 (2006.01) C25C 7/02 (2006.01) C25C 7/04 (2006.01)**  
[25] EN  
[54] **ELECTROLYTIC PRODUCTION OF REACTIVE METALS**  
[54] **PRODUCTION ELECTROLYTIQUE DE METAUX REACTIFS**  
[72] HYERS, ROBERT W., US  
[72] YURKO, JAMES A., US  
[72] SADOWAY, DONALD R., US  
[73] BOSTON ELECTROMETALLURGICAL CORPORATION, US  
[85] 2020-01-31  
[86] 2018-07-31 (PCT/US2018/044542)  
[87] (WO2019/027978)  
[30] US (62/539,666) 2017-08-01

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[11] **3,072,652**  
[13] C

[51] **Int.Cl. G01D 5/00 (2006.01) G01D 5/252 (2006.01) G01D 5/32 (2006.01) G05G 1/08 (2006.01)**  
[25] EN  
[54] **ROTARY SWITCH OR OTHER ENCODER HAVING NON-SEQUENTIAL UNIQUE BIT PATTERN AND METHOD FOR DESIGN**  
[54] **COMMUTATEUR ROTATIF OU AUTRE CODEUR PRESENTANT UN MOTIF BINAIRE UNIQUE NON SEQUENTIEL ET PROCEDE DE CONCEPTION**  
[72] NOBES, RYAN W, CA  
[72] WAGNER, KEVIN B., CA  
[73] RAYTHEON CANADA LTD., CA  
[85] 2020-02-11  
[86] 2017-12-12 (PCT/CA2017/051500)  
[87] (WO2019/113673)

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[11] **3,072,768**  
[13] C

[51] **Int.Cl. A61K 31/352 (2006.01) A61K 9/107 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01)**  
[25] EN  
[54] **PHARMACEUTICAL COMPOSITIONS FOR THE TREATMENT OF OPHTHALMIC CONDITIONS**  
[54] **COMPOSITIONS PHARMACEUTIQUES DESTINEES AU TRAITEMENT D'AFFECTIONS OPHTALMIQUES**  
[72] CHANG, PING, US  
[72] HU, ZHENZE, US  
[72] TAO, YUANYUAN, US  
[73] RHODES TECHNOLOGIES, US  
[85] 2020-02-11  
[86] 2018-08-10 (PCT/US2018/046331)  
[87] (WO2019/045994)  
[30] US (62/550,642) 2017-08-27  
[30] US (62/609,752) 2017-12-22

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[11] **3,072,956**  
[13] C

[51] **Int.Cl. H04L 61/4511 (2022.01) H04L 61/5007 (2022.01) H04L 67/1001 (2022.01) H04L 67/1014 (2022.01) H04L 67/1023 (2022.01) H04L 67/146 (2022.01) H04L 67/563 (2022.01) H04L 67/568 (2022.01) H04L 67/60 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR METRO MID-TIER MAPPING IN A CONTENT DELIVERY NETWORK**

[54] **SYSTEME ET PROCEDE DE MISE EN CORRESPONDANCE INTERMEDIAIRE DE METRO DANS UN RESEAU DE LIVRAISON DE CONTENU**

[72] POWER, WILLIAM R., US

[73] LEVEL 3 COMMUNICATIONS, LLC, US

[85] 2020-02-12

[86] 2018-08-14 (PCT/US2018/046729)

[87] (WO2019/036481)

[30] US (62/545,336) 2017-08-14

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[11] **3,073,238**  
[13] C

[51] **Int.Cl. B01D 25/12 (2006.01) B01D 25/133 (2006.01) B01D 25/168 (2006.01)**

[25] EN

[54] **A METHOD FOR OPERATING A FILTER PRESS AND A FILTER PRESS**

[54] **PROCEDE DE FONCTIONNEMENT DE D'UN APPAREIL DE FILTRATION ET APPAREIL DE FILTRATION**

[72] BOHNKE, BERND, DE

[73] METSO FINLAND OY, FI

[85] 2020-02-17

[86] 2017-08-23 (PCT/FI2017/050593)

[87] (WO2019/038469)

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[11] **3,074,006**  
[13] C

[51] **Int.Cl. B01J 21/08 (2006.01) B01J 21/06 (2006.01) B01J 23/04 (2006.01) B01J 31/02 (2006.01) B01J 37/02 (2006.01) B01J 37/08 (2006.01) C07C 51/353 (2006.01) C07C 67/313 (2006.01)**

[25] EN

[54] **A CATALYST AND A PROCESS FOR THE PRODUCTION OF ETHYLENICALLY UNSATURATED CARBOXYLIC ACIDS OR ESTERS**

[54] **PROCESSUS ET CATALYSEUR DE PRODUCTION D'ACIDES OU D'ESTERS CARBOXYLIQUES A INSATURATION ETHYLENIQUE**

[72] CULLEN, ADAM, GB

[72] JOHNSON, DAVID WILLIAM, GB

[72] YORK, IAN ANDREW, GB

[73] MITSUBISHI CHEMICAL UK LIMITED, GB

[85] 2020-02-26

[86] 2018-09-13 (PCT/GB2018/052606)

[87] (WO2019/053438)

[30] GB (1714756.2) 2017-09-13

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[11] **3,075,833**  
[13] C

[51] **Int.Cl. A61K 36/37 (2006.01) A61K 31/202 (2006.01) A61K 31/585 (2006.01) A61K 36/81 (2006.01) A61K 36/9066 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **COMPOSITION COMPRISING WITHANIA EXTRACT, OMEGA-3 FATTY ACIDS AND NATURAL PRODUCT EXTRACTS AND USES THEREOF**

[54] **COMPOSITION COMPRENANT DE WITHANIA, ACIDES GRAS OMEGA-3 ET EXTRAITS DE PRODUITS NATURELS ET UTILISATIONS CONNEXES**

[72] HARDING, ANGUS, AU

[73] BH BIOTECH PTY LTD, AU

[85] 2020-03-13

[86] 2018-09-18 (PCT/AU2018/051021)

[87] (WO2019/051565)

[30] AU (2017903793) 2017-09-18

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[11] **3,077,494**  
[13] C

[51] **Int.Cl. E01B 2/00 (2006.01) E01B 26/00 (2006.01) H02G 3/04 (2006.01) H02G 9/04 (2006.01) B60M 5/00 (2006.01)**

[25] EN

[54] **CABLE TROUGH**

[54] **CHEMIN DE CABLE**

[72] BROOKER, STEVEN, GB

[72] MASKEY, NUALA, GB

[73] CUBIS SYSTEMS LIMITED, GB

[85] 2020-03-30

[86] 2018-10-01 (PCT/GB2018/052797)

[87] (WO2019/069065)

[30] GB (1716133.2) 2017-10-03

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[11] **3,077,870**  
[13] C

[51] **Int.Cl. G06F 21/41 (2013.01) G06Q 20/38 (2012.01)**

[25] EN

[54] **METHOD AND APPARATUS WITH PROVIDER INFORMATION ACCESS AUTHORIZATION**

[54] **METHODE ET APPAREIL COMPORTANT L'AUTORISATION D'ACCES AUX RENSEIGNEMENTS DE FOURNISSEUR**

[72] METWALLI, ASHRAF MAGDI, CA

[72] BLAIN, ASHLEIGH ANNE MANSFIELD, CA

[72] RAWAL, MAHENDRA CHHOTUBHAI, CA

[72] CAPERN, JOSEPH MATTHEW, CA

[72] SHEN, XIANG, CA

[73] THE TORONTO-DOMINION BANK, CA

[86] (3077870)

[87] (3077870)

[22] 2020-04-03

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[11] **3,078,558**  
[13] C

[51] **Int.Cl. H04L 9/08 (2006.01)**  
[25] EN  
[54] **A SYSTEM AND METHOD FOR QUANTUM-SAFE AUTHENTICATION, ENCRYPTION AND DECRYPTION OF INFORMATION**

[54] **SYSTEME ET PROCEDE D'AUTHENTIFICATION, DE CHIFFREMENT, ET DE DECHIFFREMENT D'INFORMATIONS, A SECURITE QUANTIQUE**

[72] FRITH, RAILTON, GB  
[72] NEWTON, OLIVIER FRANCOIS ROUSSY, CA  
[72] DEONARINE, ANDREW, CA  
[72] NEWTON, NICOLAS ALEXANDRE ROUSSY, CA  
[73] BTQ AG, LI  
[85] 2020-04-06  
[86] 2018-10-08 (PCT/GB2018/052872)  
[87] (WO2019/069103)  
[30] US (62/569,041) 2017-10-06

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[11] **3,080,683**  
[13] C

[51] **Int.Cl. H05B 6/10 (2006.01)**  
[25] EN  
[54] **CHARGE HEATING METHOD AND SYSTEMS FOR INDUCTION MOLDING**

[54] **PROCEDE ET SYSTEMES DE CHAUFFAGE D'UNE CHARGE POUR MOULAGE PAR INDUCTION**

[72] MATSEN, MARC R., US  
[72] OLANIYAN, TUNDE A., US  
[72] GRAY, EVERETTE D., US  
[72] HENSON, LANDON K., US  
[72] DYKSTRA, WILLIAM C., US  
[73] THE BOEING COMPANY, US  
[86] (3080683)  
[87] (3080683)  
[22] 2020-05-14  
[30] US (16/459306) 2019-07-01

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[11] **3,080,748**  
[13] C

[51] **Int.Cl. H04R 5/027 (2006.01) H04R 1/28 (2006.01) H04R 5/02 (2006.01) H04R 5/04 (2006.01) H04R 17/00 (2006.01) H04S 5/00 (2006.01)**

[25] EN  
[54] **ACOUSTIC HOLOGRAPHIC RECORDING AND REPRODUCTION SYSTEM USING META MATERIAL LAYERS**

[54] **SYSTEME D'ENREGISTREMENT ET DE REPRODUCTION HOLOGRAPHIQUE ACOUSTIQUE UTILISANT DES COUCHES DE META-MATERIAU**

[72] MATHUR, GOPAL PRASAD, US  
[73] ACOUSTIX VR INC., US  
[85] 2020-04-28  
[86] 2018-11-01 (PCT/US2018/058616)  
[87] (WO2019/089873)  
[30] US (15/801,942) 2017-11-02

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[11] **3,081,080**  
[13] C

[51] **Int.Cl. A01D 34/73 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL KNIFE WITH PRIMARY AND SECONDARY SERRATIONS**

[54] **COUTEAU AGRICOLE MUNI DE STRIATIONS PRINCIPALES ET SECONDAIRES**

[72] KOOIMA, PHIL, US  
[72] DEN BOER, NOLAN, US  
[72] PRAMANN, ZACHARY T., US  
[73] KOOIMA AG, INC., US  
[86] (3081080)  
[87] (3081080)  
[22] 2020-05-21  
[30] US (16/417,806) 2019-05-21

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[11] **3,082,641**  
[13] C

[51] **Int.Cl. H04W 36/24 (2009.01)**  
[25] EN  
[54] **SUPPLEMENTARY UPLINK IN WIRELESS SYSTEMS**

[54] **LIAISON MONTANTE SUPPLEMENTAIRE DANS DES SYSTEMES SANS FIL**

[72] FREDA, MARTINO M., CA  
[72] PELLETIER, GHYSLAIN, CA  
[72] HAJIR, MOUNA, CA  
[72] DEENOO, YUGESWAR, US  
[72] MARINIER, PAUL, CA  
[73] INTERDIGITAL PATENT HOLDINGS, INC., US  
[85] 2020-05-13  
[86] 2018-11-14 (PCT/US2018/060947)  
[87] (WO2019/099463)  
[30] US (62/585,878) 2017-11-14  
[30] US (62/615,255) 2018-01-09  
[30] US (62/629,901) 2018-02-13

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[11] **3,082,962**  
[13] C

[51] **Int.Cl. H01M 4/13 (2010.01) H01M 10/052 (2010.01) H01M 10/0565 (2010.01) H01M 10/0568 (2010.01) H01M 4/38 (2006.01) H01M 4/62 (2006.01) H01M 4/136 (2010.01) H01M 4/40 (2006.01) H01M 4/58 (2010.01)**

[25] FR  
[54] **USE OF A SALT MIXTURE AS AN ADDITIVE IN A LITHIUM-GEL BATTERY**

[54] **UTILISATION D'UN MELANGE DE SELS A TITRE D'ADDITIF DANS UNE BATTERIE AU LITHIUM GELIFIEE**

[72] DESCHAMPS, MARC, FR  
[72] LECUYER, MARGAUD, FR  
[72] BOUCHET, RENAUD, FR  
[72] ROLLAND, JULIEN, FR  
[73] BLUE SOLUTIONS, FR  
[85] 2020-05-19  
[86] 2018-11-19 (PCT/FR2018/052896)  
[87] (WO2019/097189)  
[30] FR (1760903) 2017-11-20

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[11] **3,083,014**  
[13] C

[51] **Int.Cl. A61F 5/44 (2006.01) A61B 50/30 (2016.01) A61M 25/00 (2006.01) A61M 39/10 (2006.01)**

[25] EN

[54] **URINARY CATHETER ASSEMBLIES AND PACKAGING FOR SUCH ASSEMBLIES**

[54] **ENSEMBLES CATHETERS URINAIRES ET EMBALLAGE POUR LESDITS ENSEMBLES**

[72] FLETTER, PAUL C., US

[72] GREYNOLDS, ROBERT A., US

[72] GAMBLIN, DENISE, US

[72] FOLEY, ADAM J., US

[72] RICHARD, MARINE VERONIQUE GERMAINE, US

[73] HOLLISTER INCORPORATED, US

[85] 2020-05-19

[86] 2018-11-19 (PCT/US2018/061755)

[87] (WO2019/099975)

[30] US (62/588,807) 2017-11-20

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[11] **3,083,875**  
[13] C

[51] **Int.Cl. C09D 1/00 (2006.01) C08J 7/043 (2020.01) C09K 3/00 (2006.01) C23C 18/00 (2006.01)**

[25] EN

[54] **SURFACE ACTIVATION FOR SEALANT ADHESION ON SURFACES**

[54] **ACTIVATION DE SURFACE POUR ADHERENCE DE PRODUIT D'ETANCHEITE SUR DES SURFACES**

[72] KANDAPALLIL, BINIL I., US

[72] COLEMAN, DION PAUL, US

[72] THOMAS, SIJI, US

[73] THE BOEING COMPANY, US

[86] (3083875)

[87] (3083875)

[22] 2020-06-16

[30] US (16/460,699) 2019-07-02

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[11] **3,084,011**  
[13] C

[51] **Int.Cl. A61B 3/10 (2006.01) G02B 6/00 (2006.01) G02B 6/10 (2006.01) G02B 27/00 (2006.01) G02B 27/01 (2006.01)**

[25] EN

[54] **EYEPIECES FOR AUGMENTED REALITY DISPLAY SYSTEM**

[54] **OCULAIRES POUR SYSTEME D'AFFICHAGE A REALITE AUGMENTEE**

[72] BHARGAVA, SAMARTH, US

[72] LIU, VICTOR KAI, US

[72] MESSER, KEVIN, US

[73] MAGIC LEAP, INC., US

[85] 2020-05-28

[86] 2018-12-14 (PCT/US2018/065856)

[87] (WO2019/118930)

[30] US (62/599,663) 2017-12-15

[30] US (62/608,555) 2017-12-20

[30] US (62/620,465) 2018-01-22

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[11] **3,084,803**  
[13] C

[51] **Int.Cl. A61M 27/00 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **A CATHETER PRODUCT AND PACKAGE WITH HYGIENIC MEANS FOR REMOVAL FROM THE PACKAGE**

[54] **PRODUIT DE CATHETER ET EMBALLAGE COMPRENANT UN MOYEN HYGIENIQUE DE RETRAIT DE L'EMBALLAGE**

[72] RYAN, OWEN, US

[72] LAUNOIS, PASCAL, US

[73] HOLLISTER INCORPORATED, US

[85] 2020-06-04

[86] 2018-12-05 (PCT/US2018/064063)

[87] (WO2019/113203)

[30] US (62/596,571) 2017-12-08

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[11] **3,085,518**  
[13] C

[51] **Int.Cl. C10G 21/06 (2006.01) C10G 33/06 (2006.01)**

[25] EN

[54] **METHOD OF DESALTING CRUDE OIL WITH IMPROVED IRON (FE) REDUCTION PERFORMANCE**

[54] **PROCEDE DE DESSALAGE DU PETROLE BRUT AVEC PERFORMANCE DE REDUCTION DU FER (FE) AMELIOREE**

[72] LEE, YUN HEE, KR

[72] PARK, JOO WON, KR

[73] SK INNOVATION CO., LTD., KR

[73] SK ENERGY CO., LTD., KR

[86] (3085518)

[87] (3085518)

[22] 2020-07-02

[30] KR (10-2019-0080663) 2019-07-04

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[11] **3,087,403**  
[13] C

[51] **Int.Cl. A61L 2/20 (2006.01) A61L 2/10 (2006.01)**

[25] EN

[54] **STERILIZING ORGANIC PRODUCTS IN A CONTROLLED ATMOSPHERE TO ENSURE LONGER SHELF-LIFE.**

[54] **STERILISATION DE PRODUITS ORGANIQUES DANS UNE ATMOSPHERE CONTROLEE POUR GARANTIR UNE DUREE DE CONSERVATION SUPERIEURE**

[72] ALVA, JUNIA, IN

[72] ALVA, VERNON, IN

[73] ALVA, JUNIA, IN

[73] ALVA, VERNON, IN

[85] 2020-05-27

[86] 2019-02-05 (PCT/IN2019/050085)

[87] (WO2020/152694)

[30] IN (201921002694) 2019-01-22

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[11] **3,087,680**  
[13] C

[51] **Int.Cl. F16B 37/00 (2006.01) F16B 37/14 (2006.01) F16B 39/00 (2006.01) F16B 39/12 (2006.01) F16L 19/00 (2006.01) F16L 19/06 (2006.01) F16L 19/08 (2006.01) F16L 19/14 (2006.01)**

[25] EN

[54] **A DEVICE FOR MAKING PLUMBING CONNECTIONS AND A METHOD OF USE THEREOF**

[54] **DISPOSITIF PERMETTANT D'EFFECTUER DES RACCORDEMENTS DE PLOMBERIE ET SON PROCEDE D'UTILISATION**

[72] KIM, BRIAN B., US  
[73] KIM, BRIAN B., US  
[85] 2020-07-03  
[86] 2018-12-19 (PCT/US2018/066438)  
[87] (WO2019/147361)  
[30] US (62/623,254) 2018-01-29  
[30] US (15/979,975) 2018-05-15

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[11] **3,087,724**  
[13] C

[51] **Int.Cl. B60R 16/03 (2006.01) B60L 1/00 (2006.01) B60P 3/36 (2006.01) B60Q 3/00 (2017.01) B60Q 9/00 (2006.01)**

[25] EN

[54] **A POWER DISTRIBUTION SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE DISTRIBUTION DE PUISSANCE**

[72] BATES, TIMOTHY, AU  
[72] SMITH, CLINTON, AU  
[72] PRINSLOO, ZACHARIAS JOHANNES, AU  
[73] REDARC TECHNOLOGIES PTY LTD, AU  
[85] 2020-07-06  
[86] 2019-01-16 (PCT/AU2019/050027)  
[87] (WO2019/140483)  
[30] AU (2018900140) 2018-01-17

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[11] **3,088,372**  
[13] C

[51] **Int.Cl. G01V 3/10 (2006.01) B64D 47/00 (2006.01) G01V 13/00 (2006.01)**

[25] EN

[54] **METHOD OF RATIO METRIC PROXIMITY SENSING**

[54] **METHODE DE DETECTION DE PROXIMITE QUOTIENTOMETRIQUE**

[72] SHI, FONG, US  
[73] THE BOEING COMPANY, US  
[86] (3088372)  
[87] (3088372)  
[22] 2020-07-29  
[30] US (16/532499) 2019-08-06

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[11] **3,092,130**  
[13] C

[51] **Int.Cl. B04B 13/00 (2006.01) B04B 9/02 (2006.01)**

[25] EN

[54] **CENTRIFUGAL SEPARATOR AND METHOD OF OPERATING A CENTRIFUGAL SEPARATOR**

[54] **SEPARATEUR CENTRIFUGE ET PROCEDE DE FONCTIONNEMENT DE SEPARATEUR CENTRIFUGE**

[72] LARSSON, PER-GUSTAF, SE  
[73] ALFA LAVAL CORPORATE AB, SE  
[85] 2020-08-25  
[86] 2019-02-19 (PCT/EP2019/054065)  
[87] (WO2019/166276)  
[30] EP (18159103.3) 2018-02-28

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[11] **3,092,373**  
[13] C

[51] **Int.Cl. A61K 38/00 (2006.01) A61K 47/02 (2006.01) A61K 47/06 (2006.01)**

[25] EN

[54] **TOPICAL WOUND CARE FORMULATION**

[54] **FORMULATION DE SOINS TOPIQUES POUR PLAIES**

[72] CHAUDHRY, AISHA, US  
[73] CHAUDHRY, AISHA, US  
[85] 2020-08-26  
[86] 2019-02-26 (PCT/US2019/019625)  
[87] (WO2019/165446)  
[30] US (15/905,632) 2018-02-26

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[11] **3,092,773**  
[13] C

[51] **Int.Cl. A61F 9/04 (2006.01) A61F 9/06 (2006.01)**

[25] EN

[54] **COMBINATION OF A GOGGLE AND A FACE MASK**

[54] **COMBINAISON DE LUNETTES DE PROTECTION ET D'UN MASQUE FACIAL**

[72] WU, ZIQIAN, CN  
[73] TECMEN ELECTRONICS CO., LTD, CN  
[85] 2020-09-01  
[86] 2019-09-30 (PCT/CN2019/109313)  
[87] (WO2020/083010)  
[30] CN (201811239716.1) 2018-10-23  
[30] CN (201821720908.X) 2018-10-23

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[11] **3,093,814**  
[13] C

[51] **Int.Cl. E05B 17/10 (2006.01) E05B 41/00 (2006.01) E05B 65/10 (2006.01) G09F 13/22 (2006.01) H05B 45/10 (2020.01) H05B 47/105 (2020.01)**

[25] EN

[54] **DOOR EXIT DEVICE WITH DOGGING INDICATOR**

[54] **DISPOSITIF DE SORTIE DE PORTE AVEC INDICATEUR DE RETENUE**

[72] GRISWOLD, LEE, US  
[72] SVENDSEN, SEAN, US  
[72] FICKAS, ERIC, US  
[73] SARGENT MANUFACTURING COMPANY, US  
[85] 2020-09-10  
[86] 2019-04-08 (PCT/US2019/026257)  
[87] (WO2019/199633)  
[30] US (62/655,088) 2018-04-09

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[11] **3,094,004**  
[13] C

[51] **Int.Cl. B03B 9/00 (2006.01) C02F 11/121 (2019.01) B07B 15/00 (2006.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR GRADING AND WASHING SAND**

[54] **PROCEDE ET APPAREIL DE CLASSIFICATION ET DE LAVAGE DE SABLE**

[72] CONVERY, ANTHONY, GB  
[73] CDE GLOBAL LIMITED, GB  
[85] 2020-09-15  
[86] 2019-03-22 (PCT/EP2019/057311)  
[87] (WO2019/185489)  
[30] GB (1804797.7) 2018-03-26

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[13] C

[51] **Int.Cl. G01H 1/14 (2006.01) G01H 1/16 (2006.01) G01H 3/04 (2006.01)**  
[25] EN  
[54] **NON-INVASIVE PIPELINE PIG SIGNAL DETECTION USING VIBRATION SENSORS**  
[54] **DETECTION DE SIGNAL DE RACLEUR DE PIPELINE NON INVASIF A L'AIDE DE CAPTEURS DE VIBRATIONS**  
[72] POE, ROGER L., US  
[73] TDW DELAWARE, INC., US  
[85] 2020-10-07  
[86] 2019-05-24 (PCT/US2019/033924)  
[87] (WO2019/226994)  
[30] US (62/676,090) 2018-05-24

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[11] **3,098,402**  
[13] C

[51] **Int.Cl. G09G 5/37 (2006.01)**  
[25] EN  
[54] **RENDERING IMAGES USING MODIFIED MULTIPLE IMPORTANCE SAMPLING**  
[54] **RENDU D'IMAGES UTILISANT L'ECHANTILLONNAGE A IMPORTANCES MULTIPLES MODIFIE**  
[72] KARLIK, ONDREJ, BG  
[72] SIK, MARTIN, BG  
[72] VEVODA, PETR, BG  
[72] SKRIVAN, TOMAS, BG  
[72] KRIVANEK, JAROSLAV, BG  
[73] CHAOS SOFTWARE LTD., BG  
[86] (3098402)  
[87] (3098402)  
[22] 2020-11-05  
[30] US (16/679075) 2019-11-08

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[11] **3,098,711**  
[13] C

[51] **Int.Cl. E05B 47/00 (2006.01) G05F 1/10 (2006.01) G07C 9/00 (2020.01)**  
[25] EN  
[54] **POWER AND COMMUNICATION ARRANGEMENTS FOR AN ACCESS CONTROL SYSTEM**  
[54] **AGENCEMENTS D'ALIMENTATION ET DE COMMUNICATION POUR UN SYSTEME DE CONTROLE D'ACCES**  
[72] CARPENTER, JOHN C., US  
[72] BAUMGARTE, JOSEPH W., US  
[72] OEHLER, KEVIN P., US  
[73] SCHLAGE LOCK COMPANY LLC, US  
[85] 2020-10-28  
[86] 2019-03-21 (PCT/US2019/023348)  
[87] (WO2019/183340)  
[30] US (62/646,955) 2018-03-23

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[11] **3,100,912**  
[13] C

[51] **Int.Cl. C12Q 1/68 (2018.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **TUMOR MARKER COL4A1,METHYLATION DETECTION REAGENT, KIT AND USE THEREOF**  
[54] **MARQUEUR DE TUMEUR COL4A1, REACTIF DE DETECTION DE METHYLATION, TROUSSE ET UTILISATION CONNEXE**  
[72] LIU, XIANGLIN, CN  
[72] ZHAO, RONGSONG, CN  
[72] ZOU, HONGZHI, CN  
[73] CREATIVE BIOSCIENCES (GUANGZHOU) CO., LTD., CN  
[85] 2020-11-19  
[86] 2019-05-05 (PCT/CN2019/085583)  
[87] (WO2019/223516)  
[30] CN (201810494478.2) 2018-05-22

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[11] **3,101,149**  
[13] C

[51] **Int.Cl. C04B 28/00 (2006.01) B28C 5/00 (2006.01) B28C 7/04 (2006.01)**  
[25] EN  
[54] **CHEMICAL-RESISTANT QUARTZ-BASED CASTING COMPOSITION AND METHOD OF MAKING A CHEMICAL-RESISTANT CONCRETE**  
[54] **COMPOSITION DE MOULAGE A BASE DE QUARTZ RESISTANT AUX PRODUITS CHIMIQUES ET PROCEDE DE FABRICATION D'UN BETON RESISTANT AUX PRODUITS CHIMIQUES**  
[72] ANDERSON, MICHAEL W., US  
[72] CONNORS, CHARLES W., JR., US  
[73] MAGNECO/METREL, INC., US  
[86] (3101149)  
[87] (3101149)  
[22] 2020-11-30  
[30] US (16/882,134) 2020-05-22  
[30] US (16/882,189) 2020-05-22

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[11] **3,101,788**  
[13] C

[51] **Int.Cl. A01G 7/00 (2006.01) A01G 22/15 (2018.01) A01G 22/60 (2018.01)**  
[25] EN  
[54] **SOIL AMELIORATION METHOD**  
[54] **PROCEDE D'AMELIORATION DU SOL**  
[72] SATO, TAKASHI, JP  
[73] AQUASOLUTION CORPORATION, JP  
[85] 2020-11-26  
[86] 2019-05-29 (PCT/JP2019/021247)  
[87] (WO2019/230778)  
[30] JP (2018-103058) 2018-05-30

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[11] **3,102,600**  
[13] C

[51] **Int.Cl. B04B 5/04 (2006.01) B01D 21/26 (2006.01) B04B 5/00 (2006.01) B04B 11/02 (2006.01)**

[25] EN

[54] **CENTRIFUGE SYSTEM FOR SEPARATING CELLS IN SUSPENSION**

[54] **SYSTEME CENTRIFUGE POUR SEPARER DES CELLULES EN SUSPENSION**

[72] KESSLER, S, US

[72] MARRO, T, US

[73] PNEUMATIC SCALE CORPORATION, US

[85] 2020-12-03

[86] 2019-06-06 (PCT/US2019/035855)

[87] (WO2019/236895)

[30] US (62/682,376) 2018-06-08

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[11] **3,105,029**  
[13] C

[51] **Int.Cl. B65D 71/36 (2006.01) B65D 5/54 (2006.01)**

[25] EN

[54] **CARRIER FOR CONTAINERS**

[54] **SUPPORT DESTINE A DES RECIPIENTS**

[72] SMALLEY, BRIAN, GB

[73] GRAPHIC PACKAGING INTERNATIONAL, LLC, US

[85] 2021-01-05

[86] 2019-07-24 (PCT/US2019/043178)

[87] (WO2020/023597)

[30] US (62/703,031) 2018-07-25

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[11] **3,106,053**  
[13] C

[51] **Int.Cl. G16B 20/00 (2019.01) G16B 40/00 (2019.01) G16C 20/20 (2019.01) G16C 20/70 (2019.01) G01N 33/483 (2006.01)**

[25] EN

[54] **METHOD OF IDENTIFICATION OF ENTITIES FROM MASS SPECTRA**

[54] **PROCEDE D'IDENTIFICATION D'ENTITES A PARTIR DE SPECTRES DE MASSE**

[72] HRUSKA, MIROSLAV, SK

[72] HAJDUCH, MARIAN, CZ

[72] DZUBAK, PETR, CZ

[73] UNIVERZITA PALACKEHO V OLOMOUCI, CZ

[85] 2021-01-08

[86] 2019-07-19 (PCT/EP2019/069552)

[87] (WO2020/016428)

[30] EP (18184710.4) 2018-07-20

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[11] **3,106,063**  
[13] C

[51] **Int.Cl. C07D 301/12 (2006.01) B01J 31/34 (2006.01) C07D 303/04 (2006.01) C07B 61/00 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING EPOXYALKANE AND SOLID OXIDATION CATALYST**

[54] **PROCEDE DE PRODUCTION D'EPOXYALCANE ET CATALYSEUR D'OXYDATION SOLIDE**

[72] YAP, MEE LIN, JP

[72] TAKADA, SHINGO, JP

[73] KAO CORPORATION, JP

[85] 2021-01-08

[86] 2019-06-11 (PCT/JP2019/023110)

[87] (WO2020/026598)

[30] JP (2018-142799) 2018-07-30

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[11] **3,106,103**  
[13] C

[51] **Int.Cl. E21B 49/08 (2006.01) E21B 47/01 (2012.01)**

[25] EN

[54] **PROBE ARRAYS FOR MONITORING WELLBORE FLUID COMPOSITION AND METHODS OF USING THE SAME**

[54] **RESEAU DE SONDAS POUR SURVEILLER LA COMPOSITION DES FLUIDES DANS UN TROU DE FORAGE ET METHODES D'UTILISATION**

[72] HEATH, GARETT, CA

[72] HADLEY, DYLAN JAMES, CA

[73] NEWPARK DRILLING FLUIDS LLC, US

[86] (3106103)

[87] (3106103)

[22] 2021-01-14

[30] US (62/961001) 2020-01-14

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[11] **3,108,152**  
[13] C

[51] **Int.Cl. A61K 6/889 (2020.01) A61K 6/838 (2020.01)**

[25] EN

[54] **A DENTAL COMPOSITION**

[54] **COMPOSITION DENTAIRE**

[72] LASSILA, LIPPO, FI

[72] VALLITTU, PEKKA, FI

[72] GAROUSHI, SUFYAN, FI

[72] SAILYNOJA, EIJA, FI

[72] HE, JINGWEI, CN

[73] STICK TECH OY, FI

[85] 2021-01-29

[86] 2019-08-01 (PCT/EP2019/070738)

[87] (WO2020/035321)

[30] EP (18188611.0) 2018-08-13

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[11] **3,107,761**  
[13] C

[51] **Int.Cl. F16L 59/135 (2006.01)**

[25] EN

[54] **PIPE INSULATION COUPLING WITH SEAL**

[54] **RACCORD D'ISOLATION DE TUYAU ET JOINT D'ETANCHEITE**

[72] DODGE, ROBERT, US

[72] SCHWAGER, MARK, US

[73] ZSI, INC., US

[73] SCHWAGER, MARK, US

[85] 2021-01-26

[86] 2019-08-09 (PCT/US2019/045851)

[87] (WO2020/036817)

[30] US (62/717,921) 2018-08-13

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[11] **3,108,152**  
[13] C

[51] **Int.Cl. A61K 6/889 (2020.01) A61K 6/838 (2020.01)**

[25] EN

[54] **A DENTAL COMPOSITION**

[54] **COMPOSITION DENTAIRE**

[72] LASSILA, LIPPO, FI

[72] VALLITTU, PEKKA, FI

[72] GAROUSHI, SUFYAN, FI

[72] SAILYNOJA, EIJA, FI

[72] HE, JINGWEI, CN

[73] STICK TECH OY, FI

[85] 2021-01-29

[86] 2019-08-01 (PCT/EP2019/070738)

[87] (WO2020/035321)

[30] EP (18188611.0) 2018-08-13

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[11] **3,108,199**  
[13] C

[51] **Int.Cl. H04L 67/60 (2022.01) G06Q 40/08 (2012.01) H04L 67/563 (2022.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR EXECUTING PARALLEL WORKFLOWS**

[54] **SYSTEME ET METHODE D'EXECUTION DE FLUX DE TRAVAIL EN PARALLELE**

[72] LEGER, SIMON KARCZEWSKI, CA

[73] THE TORONTO-DOMINION BANK, CA

[86] (3108199)

[87] (3108199)

[22] 2021-02-04



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[11] **3,108,463**  
[13] C

- [51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/34 (2006.01) A61N 1/18 (2006.01)**  
[25] EN  
[54] **BODY JOINT SUPPORT DEVICE WITH INFLATABLE AIRBAG, ELECTRODE OR BOTH**  
[54] **DISPOSITIF DE SUPPORT DE JOINT DE CORPS AVEC COUSSIN GONFLABLE, UNE ELECTRODE OU LES DEUX**  
[72] HO, HOI MING MICHAEL, XX  
[73] HO, HOI MING MICHAEL,  
[86] (3108463)  
[87] (3108463)  
[22] 2021-02-09  
[30] CN (202010631822.5) 2020-07-03

[11] **3,108,552**  
[13] C

- [51] **Int.Cl. C25B 9/15 (2021.01) C02F 1/46 (2006.01) H01M 8/18 (2006.01)**  
[25] EN  
[54] **ELECTROCHEMICAL FLOW REACTOR**  
[54] **REACTEUR A FLUX ELECTROCHIMIQUE**  
[72] HORNE, MICHAEL DAVID, AU  
[72] BAYATSARMADI, BITA, AU  
[72] RODOPOULOS, THEO, AU  
[72] TSANAKTSIDIS, JOHN, AU  
[72] GUNASEGARAM, DAYALAN ROMESH, AU  
[72] HORNUNG, CHRISTIAN, AU  
[72] FRASER, DARREN, AU  
[72] MARLEY, DYLAN, AU  
[72] URBAN, ANDREW JOSEPH, AU  
[73] COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, AU  
[85] 2021-02-03  
[86] 2019-08-07 (PCT/AU2019/050827)  
[87] (WO2020/028949)  
[30] AU (2018902887) 2018-08-08

[11] **3,111,421**  
[13] C

- [51] **Int.Cl. B60P 7/08 (2006.01)**  
[25] EN  
[54] **CARGO RETAINER**  
[54] **DISPOSITIF DE RETENUE DE MARCHANDISES**  
[72] JACKSON, NICHOLAS, US  
[73] HOME DEPOT INTERNATIONAL, INC., US  
[86] (3111421)  
[87] (3111421)  
[22] 2021-03-05  
[30] US (16/829,279) 2020-03-25

[11] **3,112,301**  
[13] C

- [51] **Int.Cl. A23L 2/60 (2006.01) A23L 27/00 (2016.01) A23L 27/30 (2016.01)**  
[25] EN  
[54] **GRANULATION OF A STEVIA SWEETENER**  
[54] **GRANULATION D'UN EDULCORANT A BASE DE STEVIA**  
[72] PURKAYASTHA, SIDDHARTHA, US  
[72] MARKOSYAN, AVETIK, AM  
[73] PURECIRCLE SDN BHD, MY  
[85] 2021-03-08  
[86] 2019-09-13 (PCT/US2019/051095)  
[87] (WO2020/056317)  
[30] US (16/131,861) 2018-09-14

[11] **3,113,616**  
[13] C

- [51] **Int.Cl. G06F 9/50 (2006.01)**  
[25] EN  
[54] **TECHNIQUES FOR BEHAVIORAL PAIRING IN A MULTISTAGE TASK ASSIGNMENT SYSTEM**  
[54] **TECHNIQUES D'APPARIEMENT COMPORTEMENTAL DANS UN SYSTEME D'ATTRIBUTION DE TACHES A ETAPES MULTIPLES**  
[72] DELELLIS, DAVID J., US  
[72] HOLL, RANDAL E., US  
[73] AFINITI, LTD., BM  
[85] 2021-03-19  
[86] 2019-02-27 (PCT/US2019/019706)  
[87] (WO2020/117300)  
[30] US (16/209,295) 2018-12-04

[11] **3,113,988**  
[13] C

- [51] **Int.Cl. H04N 19/625 (2014.01) H04N 19/18 (2014.01) H04N 19/423 (2014.01) H04N 19/70 (2014.01)**  
[25] EN  
[54] **METHOD FOR ENCODING/DECODING VIDEO SIGNALS AND APPARATUS THEREFOR**  
[54] **PROCEDE PERMETTANT DE CODER/DECODER DES SIGNAUX VIDEO ET DISPOSITIF ASSOCIE**  
[72] KOO, MOONMO, KR  
[72] KIM, SEUNGHWAN, KR  
[72] SALEHIFAR, MEHDI, KR  
[72] LIM, JAEHYUN, KR  
[73] LG ELECTRONICS INC., KR  
[85] 2021-03-23  
[86] 2019-09-23 (PCT/KR2019/012352)  
[87] (WO2020/060364)  
[30] US (62/735,152) 2018-09-23

[11] **3,114,115**  
[13] C

- [51] **Int.Cl. A63G 21/20 (2006.01) A63G 25/00 (2006.01) A63G 31/00 (2006.01) A63G 31/02 (2006.01)**  
[25] EN  
[54] **AUTONOMOUS VEHICLE TRANSPORTATION SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE TRANSPORT DE VEHICULE AUTONOME**  
[72] MCVEEN, KEITH MICHAEL, US  
[73] UNIVERSAL CITY STUDIOS LLC, US  
[85] 2021-03-24  
[86] 2019-10-03 (PCT/US2019/054532)  
[87] (WO2020/072795)  
[30] US (62/742,093) 2018-10-05  
[30] US (16/297,248) 2019-03-08

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[11] **3,114,298**  
[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 16/903 (2019.01)**  
[25] EN  
[54] **RECOMMENDATION METHOD AND SYSTEM AND METHOD AND SYSTEM FOR IMPROVING A MACHINE LEARNING SYSTEM**  
[54] **PROCEDE ET SYSTEME DE RECOMMANDATION ET PROCEDE ET SYSTEME D'AMELIORATION D'UN SYSTEME D'APPRENTISSAGE AUTOMATIQUE**  
[72] DUPLESSIS, FRANCIS, CA  
[72] STEEVES, PATRICK, CA  
[73] SERVICENOW CANADA INC., CA  
[85] 2021-03-25  
[86] 2019-09-27 (PCT/IB2019/058238)  
[87] (WO2020/065611)  
[30] US (62/738,382) 2018-09-28

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[11] **3,114,430**  
[13] C

[51] **Int.Cl. A61F 5/01 (2006.01) A61F 5/04 (2006.01) A61F 5/37 (2006.01)**  
[25] EN  
[54] **DYNAMIC ADJUSTABLE SHOULDER ORTHOSIS WITH REHABILITATION BY ADDUCTION**  
[54] **ORTHESE D'EPAULE REGLABLE DYNAMIQUE AVEC REEDUCATION PAR ADDUCTION**  
[72] BLEAU, JACINTE, CA  
[72] BEGON, MICKAEL, CA  
[72] NOBERT, SERGE, CA  
[72] DUSSAULT, MARC-ANDRE, CA  
[72] BEAUPRE-LAFLAMME, RAPHAEL, CA  
[72] TETRAULT, PATRICE, CA  
[72] RUEL, JEAN-CHRISTOPHE, CA  
[73] 2330-2029 QUEBEC INC., CA  
[85] 2021-03-26  
[86] 2019-10-03 (PCT/CA2019/051420)  
[87] (WO2020/073115)  
[30] CA (3,020,566) 2018-10-12

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[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/395 (2006.01) A61P 27/00 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **ANTI PD-L1 ANTIBODY AND USE THEREOF**  
[54] **ANTICORPS ANTI PD-L1 ET SON UTILISATION**  
[72] FANG, JIANMIN, CN  
[72] JIANG, JING, CN  
[72] LI, SHENJUN, CN  
[72] ZHAO, GUORUI, CN  
[73] REMEGEN CO., LTD., CN  
[85] 2021-03-26  
[86] 2020-08-25 (PCT/CN2020/110935)  
[87] (WO2021/037007)  
[30] CN (201910805440.7) 2019-08-29

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[11] **3,116,126**  
[13] C

[51] **Int.Cl. G02B 1/113 (2015.01) B32B 7/023 (2019.01) B32B 7/12 (2006.01) B32B 9/04 (2006.01) B32B 18/00 (2006.01)**  
[25] EN  
[54] **TRANSPARENT COVERING HAVING ANTI-REFLECTIVE COATINGS**  
[54] **RECOUVREMENT TRANSPARENT PRESENTANT DES REVETEMENTS ANTIREFLET**  
[72] WILSON, STEPHEN S., US  
[73] LAMINATED FILM LLC, US  
[85] 2021-04-12  
[86] 2019-10-03 (PCT/US2019/054565)  
[87] (WO2020/081250)  
[30] US (62/748,154) 2018-10-19  
[30] US (16/584,648) 2019-09-26

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[11] **3,116,597**  
[13] C

[51] **Int.Cl. B01J 23/78 (2006.01) B01J 23/88 (2006.01) C07C 5/333 (2006.01)**  
[25] EN  
[54] **CATALYST FOR DEHYDROGENATION OF ALKYL AROMATIC HYDROCARBON AND PREPARATION METHOD THEREFOR**  
[54] **CATALYSEUR POUR LA DESHYDROGENATION D'UN HYDROCARBURE AROMATIQUE D'ALKYLE ET SON PROCEDE DE PREPARATION**  
[72] MIAO, CHANGXI, CN  
[72] WEI, CHUNLING, CN  
[72] SONG, LEI, CN  
[72] CHEN, TONG, CN  
[72] NI, JUNPING, CN  
[73] CHINA PETROLEUM & CHEMICAL CORPORATION, CN  
[73] SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC, CN  
[85] 2021-04-15  
[86] 2019-10-14 (PCT/CN2019/110935)  
[87] (WO2020/078303)  
[30] CN (201811201536.4) 2018-10-16  
[30] CN (201811201422.X) 2018-10-16

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[54] **TWO-COMPONENT PHOSPHATE ESTER CAVITY FILLING SEMI RIGID FOAM**  
[54] **MOUSSE SEMI-RIGIDE DE REMPLISSAGE DE CAVITE A DEUX COMPOSANTS A BASE D'ESTER DE PHOSPHATE**  
[72] CZAPLICKI, MICHAEL, US  
[72] HICKS, KEVIN, US  
[73] ZEPHYROS, INC., US  
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[54] **SYSTEMS AND METHODS OF MANAGING MEDICAL IMAGES**

[54] **SYSTEMES ET PROCÉDES DE GESTION D'IMAGES MÉDICALES**

[72] TIZHOOSH, HAMID REZA, CA

[72] MOUSSA, WAFIK WAGDY, CA

[72] MYLES, PATRICK, CA

[72] DAMASKINOS, SAVVAS, CA

[72] RIBES, ALFONSO CARLOS, CA

[73] HURON TECHNOLOGIES INTERNATIONAL INC., CA

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[54] **HANDLING OF PRE-FORMED FABRICS**

[54] **MANIPULATION DE TISSUS PREFORMÉS**

[72] BERTIN, ANDRE, BE

[72] SEVERIN, PIERRE, BE

[72] CASSART, FLORIAN, BE

[73] COEXPAIR, BE

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[54] **ENDOPHYTES D'HERBE**

[72] SAINT-PIERRE, LAURE, FR

[72] GRAS, MARIE-CHRISTINE, FR

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[54] **LEVELING SYSTEM FOR LIFT DEVICE**

[54] **SYSTEME DE MISE A NIVEAU POUR DISPOSITIF DE LEVAGE**

[72] HACKENBERG, ERIC D., US

[72] HAO, JIHONG, US

[72] SIVASUBRAMANIAN, HARISH, US

[72] AMSALLEN, MARCEL, US

[73] OSHKOSH CORPORATION, US

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[54] **RESETTING BIOLOGICAL PATHWAYS FOR DEFENDING AGAINST AND REPAIRING DETERIORATION FROM HUMAN AGING**

[54] **REINITIALISATION DE VOIES BIOLOGIQUES DE DEFENSE CONTRE ET DE REPARATION D'UNE DETERIORATION CAUSEE PAR LE VIEILLISSEMENT HUMAIN**

[72] HUIZENGA, JOEL, US

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[54] **COMPOUNDS AND METHODS FOR TREATING HUNTINGTON'S DISEASE**

[54] **COMPOSES ET METHODES POUR TRAITER LA MALADIE DE HUNTINGTON**

[72] BABU, SURESH, US

[72] BHATTACHARYYA, ANURADHA, US

[72] HWANG, SEONGWOO, US

[72] JANI, MINAKSHI, US

[72] MOON, YOUNG-CHOON, US

[72] SYDORENKO, NADIYA, US

[73] PTC THERAPEUTICS, INC., US

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[54] **TECHNIQUES FOR IDENTIFYING SYNCHRONIZATION ERRORS IN MEDIA TITLES**

[54] **TECHNIQUES D'IDENTIFICATION D'ERREURS DE SYNCHRONISATION DANS DES TITRES MULTIMEDIA**

[72] PURI, ROHIT, US

[72] KHOSRAVAN, NAJI, US

[72] BEHROSTAGHI, SHERVIN ARDESHIR, US

[73] NETFLIX, INC., US

[85] 2021-05-06

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[54] **METHODS TO PREDICT LIVER DISEASE MORTALITY USING LIPOPROTEIN LP-Z**  
[54] **METHODES POUR PREDIRE LA MORTALITE LIEE A UNE MALADIE HEPATIQUE FAISANT APPEL A LA LIPOPROTEINE LP-Z**  
[72] JIANG, ZHENGHUI GORDON, US  
[72] OTVOS, JAMES D., US  
[72] SHALAUROVA, IRINA, US  
[72] JEYARAJAH, ELIAS J., US  
[72] CONNELLY, MARGERY A., US  
[72] CURRY, MICHAEL, US  
[72] AFDHAL, NEZAM, US  
[72] POPOV, YURY, US  
[72] PEREZ-MATOS, MARIA, US  
[73] LIPOSCIENCE, INC., US  
[73] BETH ISRAEL DEACONESS MEDICAL CENTER, INC., US  
[85] 2021-05-06  
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[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/173 (2006.01)**  
[25] EN  
[54] **CONTACT TIP, WIRE PREHEATING ASSEMBLY, CONTACT TIP ASSEMBLY AND CONSUMABLE ELECTRODE-FED WELDING TYPE SYSTEM**  
[54] **POINTE DE CONTACT ASSEMBLAGE DE PRECHAUFFAGE FILAIRE, ASSEMBLAGE DE POINTE DE CONTACT ET SYSTEME DE TYPE SOUDAGE ALIMENTE PAR ELECTRODE FUSIBLE**  
[72] UECKER, JAMES, US  
[72] ZWAYER, JAKE, US  
[73] ILLINOIS TOOL WORKS INC., US  
[85] 2021-05-11  
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[54] **LIGANDS RADIOMARQUES DERIVES DE BENZAZEPIN-L,7-DIOL PRESENTANT UNE SPECIFICITE DE NMDA IN VIVO ELEVEE**  
[72] AMETAMEY, SIMON M., CH  
[72] HAIDER, AHMED, CH  
[72] AHMED, HAZEM, CH  
[73] ETH ZURICH, CH  
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[54] **ADVANCED PHOSPHOROUS RECOVERY PROCESS AND PLANT**  
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[72] HOLTE, HANS RASMUS, NO  
[72] RINGOOT, DAVY P.M., BE  
[73] CAMBI TECHNOLOGY AS, NO  
[85] 2021-05-14  
[86] 2019-11-21 (PCT/EP2019/082131)  
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[25] EN  
[54] **RACK AND HOIST SYSTEM**  
[54] **RATELIER ET SYSTEME DE LEVAGE**  
[72] PRUSKAUER, MARK ALAN, US  
[73] AIRO INDUSTRIES, INC., US  
[85] 2021-05-18  
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[51] **Int.Cl. H04N 19/11 (2014.01)**  
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[54] **PULSE CODE MODULATION TECHNIQUE IN VIDEO PROCESSING**  
[54] **TECHNIQUE DE MODULATION DE CODE D'IMPULSION DANS UN TRAITEMENT VIDEO**  
[72] ZHANG, LI, US  
[72] ZHANG, KAI, 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  
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[51] **Int.Cl. G06Q 10/02 (2012.01)**  
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[54] **PLATE-FORME DE GENERATION DE DEMANDE**  
[72] KAPADIA, CHAITANYA, US  
[73] SOHAM INC, US  
[85] 2021-05-20  
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- [54] **RETRACTION DE VERROU ELECTRIQUE AVEC INTERRUPTION DE COURANT**
- [72] FODSTAD, JASON, US
- [72] LEHNER, JACK, US
- [72] STALTER, JOHN, US
- [73] SCHLAGE LOCK COMPANY LLC, US
- [85] 2021-05-21
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- [72] SARGENT, SHANE, CA
- [72] MCCARTHY, MATTHEW, CA
- [72] BORSCHNECK, SEAN, CA
- [73] TORSCH INC., CA
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- [54] **RECONNAISSANCE DE RESEAU DYNAMIQUE**
- [72] BRZOZOWSKI, JOHN JASON, US
- [72] LEDDY, JOHN, US
- [73] TIVO CORPORATION, US
- [86] (3121549)
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- [54] **MAPPING METHOD, ENCODER, DECODER, AND COMPUTER STORAGE MEDIUM**
- [54] **PROCEDE DE MAPPAGE, CODEUR, DECODEUR ET SUPPORT DE STOCKAGE INFORMATIQUE**
- [72] HUO, JUNYAN, CN
- [72] MA, YANZHUO, CN
- [72] WAN, SHUAI, CN
- [72] YANG, FUZHENG, CN
- [72] LI, XINWEI, CN
- [72] WANG, HAIKIN, CN
- [73] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN
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- [25] EN
- [54] **WIPER DEVICE AND SYSTEM FOR A VEHICLE**
- [54] **DISPOSITIF D'ESSUIE-GLACE ET SYSTEME POUR UN VEHICULE**
- [72] FEL, LANDRI, AT
- [73] BOMBARDIER TRANSPORTATION GMBH, DE
- [85] 2021-06-02
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- [54] **EXCHANGEABLE SEPARATION INSERT**
- [54] **INSERT DE SEPARATION INTERCHANGEABLE**
- [72] HOGLUND, KASPER, SE
- [72] THORWID, PETER, SE
- [73] ALFA LAVAL CORPORATE AB, SE
- [85] 2021-06-04
- [86] 2019-12-09 (PCT/EP2019/084137)
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- [25] EN
- [54] **IMPLEMENTING BARRIERS FOR CONTROLLED ENVIRONMENTS DURING SAMPLE PROCESSING AND DETECTION**
- [54] **MISE EN OEUVRE DE BARRIERES POUR DES ENVIRONNEMENTS CONTROLES PENDANT LE TRAITEMENT ET LA DETECTION D'ECHANTILLONS**
- [72] BECKETT, NATHAN, US
- [72] CASWELL, NATHAN, US
- [73] ULTIMA GENOMICS, INC., US
- [85] 2021-06-07
- [86] 2019-12-06 (PCT/US2019/064916)
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- [30] US (62/776,866) 2018-12-07
- [30] US (16/440,026) 2019-06-13
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- [54] **METHOD OF DETECTING A DISTORTION OF A LIGHT PATTERN DEFINING A CODE WORD, AND LIGHT PATTERN**
- [54] **METHODE DE DETECTION D'UNE DEFORMATION D'UN MOTIF DE LUMIERE DEFINISSANT UN MOT-CODE, ET MOTIF DE LUMIERE**
- [72] OTT, KONSTANTIN, DE
- [72] ZIMPRICH, MARTIN, DE
- [72] RICHTER, MARTIN, DE
- [73] VITRONIC DR.-ING. STEIN BILDVERARBEITUNGSSYSTEME GMBH, DE
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[54] **SURFACES MOBILES RAIDIES AU MOYEN DE PERLES**  
[72] BEHZADPOUR, FOROUZAN, US  
[72] ASHMAWI, WAEIL M., US  
[72] APDALHALIEM, SAHRUDINE, US  
[73] THE BOEING COMPANY, US  
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[54] **HOOKAH WITH DETACHABLY DISPOSED HIGH-FREQUENCY HEATING ASSEMBLY**  
[54] **HOUKA COMPRENANT UN ASSEMBLAGE DE CHAUFFAGE HAUTE FREQUENCE DETACHABLE**  
[72] LIU, TUANFANG, CN  
[73] SHENZHEN EIGATE TECHNOLOGY CO., LTD., CN  
[86] (3123443)  
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[54] **CONJUGUE ANTICORPS-DERIVE DE PYRROLOBENZODIAZEPINE**  
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[72] OTA, YUSUKE, JP  
[72] DOI, FUMINAO, JP  
[72] MEGURO, MASAKI, JP  
[72] HAYAKAWA, ICHIRO, JP  
[72] ASHIDA, SHINJI, JP  
[72] MASUDA, TAKESHI, JP  
[72] NAKADA, TAKASHI, JP  
[72] IWAMOTO, MITSUHIRO, JP  
[72] HARADA, NAOYA, JP  
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[25] EN  
[54] **INVERTIBLE METERING APPARATUS AND RELATED METHODS**  
[54] **APPAREIL DE DOSAGE REVERSIBLE ET PROCEDES ASSOCIES**  
[72] COOPER, TIMOTHY SCOTT, US  
[72] VITT, JAMES JOSEPH, US  
[72] TURNBOW, DOUGLAS BRENT, US  
[72] NIELSEN, CHRISTEN V., US  
[72] USAJ, MARKO, US  
[72] BARBIS, ANDREJ, US  
[72] VRANEK, SASO, US  
[73] THE NIELSEN COMPANY (US), LLC, US  
[86] (3125871)  
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[22] 2017-06-22  
[62] 3,028,702  
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[13] C

[51] **Int.Cl. C03C 19/00 (2006.01) B24C 1/04 (2006.01) B24C 11/00 (2006.01) C03C 23/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A GLASS SUBSTRATE WITH AN EMBOSSED SURFACE FINISH AND GLASS SUBSTRATE OBTAINED USING SAID METHOD**  
[54] **PROCEDE DE FABRICATION D'UN SUBSTRAT EN VERRE AVEC UN FINI DE SURFACE EN RELIEF ET SUBSTRAT EN VERRE OBTENU AU MOYEN DUDIT PROCEDE**  
[72] ABAD REGUERA, VICTOR, ES  
[73] TVITEC SYSTEM GLASS. S.L., ES  
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[86] 2019-01-21 (PCT/ES2019/070025)  
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[54] **BOUTEILLE DE VOYAGE PLIABLE**  
[72] SWARTS, JURRIEN, US  
[72] SMIEDT, RICHARD, US  
[73] STOJO PRODUCTS INC., US  
[85] 2021-07-08  
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[87] (WO2020/148739)  
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[30] US (16/745,742) 2020-01-17

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[13] C

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[25] EN  
[54] **MOLDING SYSTEM**  
[54] **SYSTEME DE MOULAGE**  
[72] YAMAUCHI, KEI, JP  
[73] SUMITOMO HEAVY INDUSTRIES, LTD., JP  
[85] 2021-07-16  
[86] 2020-03-03 (PCT/JP2020/008886)  
[87] (WO2020/217716)  
[30] JP (2019-080796) 2019-04-22

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[13] C

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[25] EN  
[54] **BUFFER MANAGEMENT FOR INTRA BLOCK COPY IN VIDEO CODING**  
[54] **GESTION DE TAMPON DE COPIE INTRA-BLOC LORS D'UN CODAGE VIDEO**  
[72] XU, JIZHENG, US  
[72] ZHANG, LI, US  
[72] ZHANG, KAI, US  
[72] LIU, HONGBIN, CN  
[72] WANG, YUE, CN  
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN  
[73] BYTEDANCE INC., US  
[85] 2021-07-26  
[86] 2020-02-02 (PCT/CN2020/074155)  
[87] (WO2020/156540)  
[30] CN (CN2019074598) 2019-02-02

[11] **3,128,063**  
[13] C

- [51] **Int.Cl. A01H 6/28 (2018.01) A01G 7/04 (2006.01) A01G 9/22 (2006.01)**  
[25] EN  
[54] **LIGHT REGULATION METHOD FOR PROMOTING ACCUMULATION OF SECONDARY METABOLITES IN CANNABIS PLANTS**  
[54] **PROCEDE DE REGULATION DE LA LUMIERE POUR FAVORISER L'ACCUMULATION DE METABOLITES SECONDAIRES DANS DES PLANTS DE CANNABIS**  
[72] LI, SHAOHUA, CN  
[72] LIU, GUOJIE, CN  
[72] MA, JIAN, CN  
[72] LI, YANG, CN  
[72] WANG, ZHI, CN  
[72] CHEN, HENGSHENG, CN  
[72] MENG, LINPING, CN  
[72] JIA, SHU, CN  
[73] FUJIAN SANAN SINO-SCIENCE PHOTOBIOTECH CO., LTD, CN  
[85] 2021-07-28  
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[87] (WO2020/252954)  
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[13] C

- [51] **Int.Cl. C08G 18/20 (2006.01) C08J 9/04 (2006.01)**  
[25] EN  
[54] **AMINE COMPOSITION USEFUL FOR MAKING STABLE POLYURETHANE FOAM SYSTEMS**  
[54] **COMPOSITION D'AMINE UTILE DANS LA FABRICATION DE SYSTEMES DE MOUSSE DE POLYURETHANE STABLE**  
[72] BURDENIUC, JUAN JESUS, US  
[72] TOBIAS, JAMES DOUGLAS, US  
[72] MILLER, TIMOTHY JOSEPH, US  
[72] SINGH, MAYANK PRATAP, US  
[72] VANDERSANDE, DAVID, US  
[73] EVONIK OPERATIONS GMBH, DE  
[85] 2021-08-26  
[86] 2020-02-27 (PCT/EP2020/055096)  
[87] (WO2020/174030)  
[30] US (62/811,954) 2019-02-28

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[25] EN  
[54] **PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE**  
[54] **VIRUS PRRS, CLONES INFECTIEUX, MUTANTS DE CES VIRUS ET PROCEDE D'UTILISATION**  
[72] FAABERG, KAY S., US  
[72] HAN, JUN, US  
[72] LIU, GONGPING, US  
[72] WANG, YUE, US  
[73] REGENTS OF THE UNIVERSITY OF MINNESOTA, US  
[86] (3128824)  
[87] (3128824)  
[22] 2006-06-23  
[62] 3,033,206  
[30] US (60/694021) 2005-06-24

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[13] C

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[25] EN  
[54] **LIGHT FIXTURE CONTROLLABLE VIA DUAL NETWORKS**  
[54] **APPAREIL D'ECLAIRAGE CONTROLABLE AU MOYEN DE DEUX RESEAUX**  
[72] RODRIGUEZ, YAN, US  
[73] ABL IP HOLDING LLC, US  
[86] (3129183)  
[87] (3129183)  
[22] 2021-08-27  
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[13] C

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[25] EN  
[54] **MULTI-FUNCTION HYDRAULIC SEPARATOR**  
[54] **SEPARATEUR HYDRAULIQUE POLYVALENT**  
[72] MASON, CHRISTOPHER W., US  
[72] TERRY, ANDREW J., US  
[73] NIBCO INC., US  
[86] (3130369)  
[87] (3130369)  
[22] 2021-09-10  
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[13] C

[51] **Int.Cl. H04N 19/50 (2014.01)**  
[25] EN  
[54] **IMPROVED WEIGHTING PROCESSING OF COMBINED INTRA-INTER PREDICTION**  
[54] **TRAITEMENT AMELIORE DE PONDERATION DE PREDICTION INTRA-INTER COMBINEE**  
[72] LIU, HONGBIN, CN  
[72] ZHANG, LI, US  
[72] ZHANG, KAI, US  
[72] XU, JIZHENG, US  
[72] WANG, YUE, CN  
[72] ZHANG, NA, CN  
[73] BEIJING BYTEDANCE NETWORK TECHNOLOGY CO., LTD., CN  
[73] BYTEDANCE INC., US  
[85] 2021-08-20  
[86] 2020-03-23 (PCT/CN2020/080632)  
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[25] EN  
[54] **A SET OF TOOLS FOR INSTALLING AN IMPLANT**  
[54] **ENSEMBLE D'OUTILS POUR INSTALLER UN IMPLANT**  
[72] CLARKE, GERRY, IE  
[72] MANGAN, FIONA, IE  
[72] STOCKMANS, FILIP, BE  
[72] WEISS, ARNOLD-PETER C., US  
[72] LADD, AMY L., US  
[72] BOLAND, BRENDAN, IE  
[73] LOCI ORTHOPAEDICS LIMITED, IE  
[85] 2021-09-07  
[86] 2020-04-24 (PCT/EP2020/061558)  
[87] (WO2020/229143)  
[30] US (62/847,689) 2019-05-14

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[13] C

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[25] EN  
[54] **SPIRAL CONVEYOR DRUM BAR**  
[54] **BARRE DE TAMBOUR DE TRANSPORTEUR A VIS**  
[72] WESTCOTT, BRIAN, P., US  
[72] RAMSDELL, ADAM, J., US  
[72] KANE, SCOTT, M., US  
[72] HARRELL, RYAN, C., US  
[72] BAUER, JOHN, J., US  
[72] BROD, ROBERT, C., US  
[73] JOHN BEAN TECHNOLOGIES CORPORATION, US  
[85] 2021-09-08  
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[25] EN  
[54] **SOWING MACHINE HAVING INDIVIDUAL COULTER PRESSURE CONTROL**  
[54] **SEMOIR COMPRENANT UNE REGULATION INDIVIDUELLE DE PRESSION DE SOC**  
[72] MERTENS, DANIEL, DE  
[72] WARNS, FELIX, DE  
[72] HOFFMANN, KARL-PETER, DE  
[72] OLDENBURGER, MARCUS, DE  
[73] AMAZONEN-WERKE H. DREYER SE & CO. KG, DE  
[85] 2021-06-03  
[86] 2019-12-05 (PCT/EP2019/083793)  
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[25] EN  
[54] **ELECTRIC VEHICLE**  
[54] **VEHICULE ELECTRIQUE**  
[72] STENBERG, KURT E., US  
[72] NOTARO, JOEL M., US  
[72] LEONARD, JOSH J., US  
[72] CRAIN, STEPHEN G., US  
[72] SABOURIN, DENNIS P., US  
[72] OLSEN, RUSS G., US  
[72] MAKI, RICHARD R., US  
[72] MALONE, AMBER PATRICIA, US  
[72] GILLINGHAM, BRIAN R., US  
[72] JOHNSTUN, JEREMIAH TRAVIS, US  
[73] POLARIS INDUSTRIES INC., US  
[86] (3136096)  
[87] (3136096)  
[22] 2010-06-15  
[62] 3,060,501  
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[13] C

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[25] EN  
[54] **DOWN THE HOLE DRILLING ASSEMBLY AND APPARATUS**  
[54] **ENSEMBLE ET APPAREIL DE FORAGE DE FOND DE TROU**  
[72] BRUANDET, OLIVIER, FI  
[73] SANDVIK MINING AND CONSTRUCTION OY, FI  
[85] 2021-11-04  
[86] 2020-06-18 (PCT/EP2020/066859)  
[87] (WO2020/254457)  
[30] EP (19181471.4) 2019-06-20

[11] **3,137,072**  
[13] C

- [51] **Int.Cl. H01R 11/24 (2006.01) H01R 11/22 (2006.01) H01R 11/28 (2006.01)**  
[25] EN  
[54] **BATTERY CLAMP DEVICE**  
[54] **DISPOSITIF DE SERRAGE DE BATTERIE**  
[72] NOOK, JONATHAN LEWIS, US  
[72] NOOK, SR., WILLIAM KNIGHT, US  
[72] STANFIELD, JAMES RICHARD, US  
[72] UNDERHILL, DEREK MICHAEL, US  
[73] THE NOCO COMPANY, US  
[85] 2021-10-15  
[86] 2020-04-13 (PCT/US2020/027899)  
[87] (WO2020/214519)  
[30] US (62/834,699) 2019-04-16  
[30] US (62/835,924) 2019-04-18

[11] **3,137,409**  
[13] C

- [51] **Int.Cl. H04L 1/1812 (2023.01) H04W 72/232 (2023.01)**  
[25] EN  
[54] **SETTING HARQ TIMING FOR PDSCH WITH PENDING PDSCH-TO-HARQ-TIMING-INDICATOR**  
[54] **REGLAGE DE LA TEMPORISATION DE HARQ POUR PDSCH AVEC INDICATEUR DE TEMPORISATION PDSCH A HARQ EN ATTENTE**  
[72] KARAKI, REEM, DE  
[72] RUNE, JOHAN, SE  
[72] LIU, YUHANG, SE  
[72] FALAHATI, SOROUR, SE  
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2021-10-19  
[86] 2019-12-02 (PCT/IB2019/060371)  
[87] (WO2020/212747)  
[30] US (62/836,228) 2019-04-19

[11] **3,137,658**  
[13] C

- [51] **Int.Cl. B62K 5/025 (2013.01) B62K 5/007 (2013.01) B62K 5/05 (2013.01) A61G 3/06 (2006.01) B62H 1/02 (2006.01) B62K 5/06 (2006.01) B62K 7/04 (2006.01) B62K 5/08 (2006.01)**  
[25] FR  
[54] **MOTOR VEHICLE FOR A PERSON WITH REDUCED MOBILITY, WHICH IS EASIER TO GET INTO/OUT OF**  
[54] **VEHICULE A MOTEUR POUR PERSONNE A MOBILITE REDUITE, AVEC MONTEE/DESCENTE FACILITEE**  
[72] POMMIER, ERIC, FR  
[72] TRIDEAU, JEAN-PIERRE, FR  
[72] RAGUIDEAU, CHRISTOPHE, FR  
[73] TRIDEAU, CORINNE, FR  
[73] POMMIER, ERIC, FR  
[73] TRIDEAU, JEAN-PIERRE, FR  
[73] RAGUIDEAU, CHRISTOPHE, FR  
[85] 2021-11-10  
[86] 2020-06-15 (PCT/IB2020/055570)  
[87] (WO2020/254938)  
[30] FR (1906559) 2019-06-18

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[13] C

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[25] EN  
[54] **HLA-DR/CI PEPTIDE COMPLEXES FOR TREATING ARTHRITIS**  
[54] **COMPLEXES PEPTIDIQUES DE HLA-DR/CI POUR LE TRAITEMENT DE L'ARTHRITE**  
[72] DO, NHU-NGUYEN, DE  
[72] URBONAVICIUTE, VILMA, SE  
[72] CIENCIALA, SYLVIA, DE  
[72] HOLMDAHL, RIKARD, SE  
[72] BURKHARDT, HARALD, DE  
[73] FRAUNHOFER-GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2021-10-22  
[86] 2020-08-07 (PCT/EP2020/072280)  
[87] (WO2021/028347)  
[30] EP (19191077.7) 2019-08-09

[11] **3,138,038**  
[13] C

- [51] **Int.Cl. B60J 5/06 (2006.01) E05F 15/56 (2015.01) E05F 15/643 (2015.01) E05F 15/655 (2015.01) E05D 15/10 (2006.01)**  
[25] EN  
[54] **VEHICLE DOOR OPERATOR SYSTEM**  
[54] **SYSTEME DE COMMANDE DE PORTE DE VEHICULE**  
[72] HEIDRICH, PETER, US  
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US  
[85] 2021-10-25  
[86] 2020-05-13 (PCT/US2020/032614)  
[87] (WO2020/236475)  
[30] US (62/850,137) 2019-05-20

[11] **3,138,101**  
[13] C

- [51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/15 (2006.01)**  
[25] EN  
[54] **SUBCUTANEOUS ANALYTE SENSOR APPLICATOR AND CONTINUOUS MONITORING SYSTEM**  
[54] **APPLICATEUR DE CAPTEUR D'ANALYTE SOUS-CUTANE ET SYSTEME DE SURVEILLANCE CONTINUE**  
[72] PETERSON, THOMAS H., US  
[72] SCOTT, JONATHAN, US  
[72] FLORINDI, ANTHONY, US  
[72] KAEDING, STEN P., US  
[72] DELLEMONACHE, MAURO, US  
[73] SANVITA MEDICAL CORPORATION, US  
[85] 2021-10-26  
[86] 2019-05-14 (PCT/US2019/032114)  
[87] (WO2020/231405)

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[51] **Int.Cl. A61K 31/5377 (2006.01) A61K 31/635 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**

[25] EN

[54] **BCL-2 INHIBITORS FOR USE IN THE TREATMENT OF A BCL-2 MEDIATED CANCER CARRYING THE GLY101VAL MUTATION**

[54] **INHIBITEURS DE BCL-2 DESTINES A ETRE UTILISES DANS LE TRAITEMENT D'UN CANCER MEDIE PAR BCL-2 PORTANT LA MUTATION GLY101VAL**

[72] MURRAY, JAMES, GB

[72] COLLAND, FREDERIC, FR

[72] CLAPERON, AUDREY, FR

[73] LES LABORATOIRES SERVIER, FR

[73] NOVARTIS AG, CH

[85] 2021-11-03

[86] 2020-05-11 (PCT/EP2020/063089)

[87] (WO2020/229429)

[30] US (62/847,477) 2019-05-14

[30] EP (19178908.0) 2019-06-07

[30] US (62/971,297) 2020-02-07

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[13] C

[51] **Int.Cl. C07D 519/00 (2006.01) A61K 31/4985 (2006.01) A61P 1/04 (2006.01) A61P 17/00 (2006.01) A61P 17/06 (2006.01) A61P 19/02 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01) C07D 495/04 (2006.01)**

[25] EN

[54] **UBIQUITIN-SPECIFIC PROTEASE INHIBITOR AND PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **INHIBITEURS DE PROTEASE SPECIFIQUES DE L'UBIQUITINE, LEUR PROCEDE DE PREPARATION ET LEUR APPLICATION**

[72] PENG, JIN, CN

[72] JIANG, KUN, CN

[72] BU, JITIAN, CN

[72] WANG, FENG, CN

[73] CHASER THERAPEUTICS, INC., CN

[85] 2021-11-09

[86] 2020-05-08 (PCT/CN2020/089284)

[87] (WO2020/224652)

[30] CN (201910385956.0) 2019-05-09

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[13] C

[51] **Int.Cl. B65B 27/06 (2006.01) B65B 13/02 (2006.01) B65B 61/28 (2006.01)**

[25] EN

[54] **DEVICE AND SYSTEM FOR SEPARATING AND PACKAGING STEEL SLIT COILS**

[54] **DISPOSITIF ET SYSTEME DE SEPARATION ET D'EMBALLAGE DE BOBINES REFENDUES EN ACIER**

[72] QUINONES, VICTOR MANUEL, US

[73] QUINONES, VICTOR MANUEL, US

[85] 2021-12-07

[86] 2020-06-05 (PCT/US2020/036348)

[87] (WO2020/247767)

[30] US (62/858,652) 2019-06-07

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[11] **3,141,160**  
[13] C

[51] **Int.Cl. E21B 15/00 (2006.01) E21B 7/02 (2006.01)**

[25] EN

[54] **SYSTEM, APPARATUS, AND METHOD TO PERFORM LEVELING FOR BOREHOLE DRILLS**

[54] **SYSTEME, APPAREIL ET PROCEDE POUR EFFECTUER UN NIVELLEMENT POUR FOREUSE DE TROU DE FORAGE**

[72] PYKE, SANDY, CA

[72] GARIEPY, FRANCOIS, CA

[73] PECK TECH CONSULTING LTD., CA

[85] 2021-11-18

[86] 2020-07-10 (PCT/CA2020/050962)

[87] (WO2021/007656)

[30] US (62/873,700) 2019-07-12

[30] US (16/925,417) 2020-07-10

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[11] **3,141,970**  
[13] C

[51] **Int.Cl. A61F 9/06 (2006.01) B23K 9/095 (2006.01) B23K 9/32 (2006.01) B23K 37/00 (2006.01) G02F 1/17 (2019.01)**

[25] EN

[54] **SMART WELDING HELMETS WITH ARC TIME TRACKING VERIFICATION AND LENS MAINTENANCE DETECTION**

[54] **MASQUES DE SOUDEUR INTELLIGENTS COMPRENANT LA VERIFICATION DU SUIVI DE TEMPS DE SOUDAGE A L'ARC ET LA DETECTION D'ENTRETIEN DE LENTILLE**

[72] BECKER, WILLIAM JOSHUA, US

[72] RAPPL, JAMES FRANCIS, US

[73] ILLINOIS TOOL WORKS INC., US

[86] (3141970)

[87] (3141970)

[22] 2021-12-12

[30] US (63/125,097) 2020-12-14

[30] US (17/539,617) 2021-12-01

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[11] **3,143,294**  
[13] C

[51] **Int.Cl. C07C 57/34 (2006.01) A61K 31/194 (2006.01) C07C 59/52 (2006.01) C07C 59/58 (2006.01) C07C 61/39 (2006.01) C07C 317/04 (2006.01) C07C 323/52 (2006.01) C07C 391/00 (2006.01)**

[25] EN

[54] **FUNCTIONALIZED LONG-CHAIN HYDROCARBON MONO- AND DICARBOXYLIC ACIDS USEFUL FOR THE PREVENTION OR TREATMENT OF DISEASE**

[54] **ACIDES MONOCARBOXYLIQUES ET DICARBOXYLIQUES D'HYDROCARBURE A CHAINE LONGUE FONCTIONNALISES UTILES POUR LA PREVENTION OU LE TRAITEMENT D'UNE MALADIE**

[72] ONICIU, DANIELA CARMEN, US

[73] ESPERVITA THERAPEUTICS, INC., US

[85] 2021-12-10

[86] 2020-07-23 (PCT/US2020/043274)

[87] (WO2021/021563)

[30] US (62/878,852) 2019-07-26

[30] US (62/901,739) 2019-09-17

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[13] C

[51] **Int.Cl. H04W 68/02 (2009.01) H04W 48/18 (2009.01) H04W 88/06 (2009.01)**  
[25] EN  
[54] **PAGING METHOD FOR WTRU WITH MULTIPLE USIMS**  
[54] **PROCEDE DE RADIOMESSAGERIE POUR WTRU A MULTIPLES USIMS**  
[72] BRUSILOVSKY, ALEC, US  
[72] SHI, XIAOYAN, CA  
[72] WANG, GUANZHOU, CA  
[72] AHMAD, SAAD, CA  
[72] FERDI, SAMIR, CA  
[72] AGHILI, BEHROUZ, US  
[72] OLYERA-HERNANDEZ, ULISES, CA  
[73] INTERDIGITAL PATENT HOLDINGS, INC., US  
[85] 2021-12-14  
[86] 2020-06-16 (PCT/US2020/037913)  
[87] (WO2020/257187)  
[30] US (62/862,450) 2019-06-17  
[30] US (62/910,145) 2019-10-03  
[30] US (62/932,246) 2019-11-07

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[11] **3,143,666**  
[13] C

[51] **Int.Cl. C07D 413/06 (2006.01) A61K 31/423 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **BENZISOXAZOLE SULFONAMIDE DERIVATIVES**  
[54] **DERIVES DE BENZISOXAZOLE SULFONAMIDE**  
[72] BOZIKIS, YLVA ELISABET BERGMAN, AU  
[72] BRODSKY, OLEG, US  
[72] CAMERINO, MICHELLE ANG, AU  
[72] GREASLEY, SAMANTHA ELIZABETH, US  
[72] HOFFMAN, ROBERT LOUIS, US  
[72] KUMPF, ROBERT ARNOLD, US  
[72] KUNG, PEI-PEI, US  
[72] RICHARDSON, PAUL FRANCIS, US  
[72] STUPPLE, PAUL ANTHONY, AU  
[72] SUTTON, SCOTT CHANNING, US  
[73] PFIZER INC., US  
[73] CTXT PTY LTD, AU  
[85] 2021-12-15  
[86] 2020-06-16 (PCT/IB2020/055589)  
[87] (WO2020/254946)  
[30] US (62/863,199) 2019-06-18  
[30] US (62/953,223) 2019-12-24  
[30] US (63/025,278) 2020-05-15

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[11] **3,143,875**  
[13] C

[51] **Int.Cl. C10G 1/10 (2006.01) C08J 11/12 (2006.01) C10B 53/07 (2006.01) F28G 1/16 (2006.01)**  
[25] EN  
[54] **A THERMOLYSIS PROCESS AND SYSTEM FOR OBTAINING RECOVERED CARBON BLACK AND FUEL FROM DISUSED TIRES**  
[54] **PROCEDE ET SYSTEME DE THERMOLYSE POUR RECUPERER DU NOIR DE CARBONE ET DU CARBURANT DE PNEUS ABANDONNES**  
[72] RUIZ HERRERA, LUIS JAVIER, ES  
[73] RUIZ HERRERA, LUIS JAVIER, ES  
[85] 2021-12-16  
[86] 2019-06-27 (PCT/ES2019/070450)  
[87] (WO2020/260730)

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[11] **3,145,240**  
[13] C

[51] **Int.Cl. H04N 19/513 (2014.01) H04N 19/107 (2014.01)**  
[25] EN  
[54] **INTER PREDICTION-BASED IMAGE CODING METHOD AND APPARATUS**  
[54] **PROCEDE ET APPAREIL DE CODAGE D'IMAGE BASE SUR UNE PREDICTION INTER**  
[72] PARK, NAERI, KR  
[72] NAM, JUNGHAK, KR  
[72] JANG, HYEONGMOON, KR  
[73] LG ELECTRONICS INC., KR  
[85] 2021-12-23  
[86] 2020-06-24 (PCT/KR2020/008133)  
[87] (WO2020/262914)  
[30] US (62/865,958) 2019-06-24

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[11] **3,145,314**  
[13] C

[51] **Int.Cl. B01D 53/62 (2006.01) B01D 53/73 (2006.01) B01D 53/81 (2006.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR UTILIZING CALCIUM COMPOUND FROM CALCINED LIMESTONE**  
[54] **PROCEDES ET SYSTEMES PERMETTANT D'UTILISER UN COMPOSE DE CALCIUM A PARTIR DE CALCAIRE CALCINE**  
[72] WEISS, MICHAEL JOSEPH, US  
[72] GILLIAM, RYAN, US  
[73] ARELAC, INC., US  
[85] 2021-12-23  
[86] 2020-07-20 (PCT/US2020/042810)  
[87] (WO2021/016200)  
[30] US (62/876,711) 2019-07-21

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[11] **3,145,470**  
[13] C

[51] **Int.Cl. H04N 19/85 (2014.01) G06T 5/20 (2006.01) G09G 5/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD OF REDUCING DISTORTION DURING DOWNSAMPLING**  
[54] **SYSTEME ET PROCEDE DE REDUCTION DE DISTORSION PENDANT UN SOUS-ECHANTILLONNAGE**  
[72] BUTTERS, JEFFREY R., GB  
[73] GRASS VALLEY LIMITED, GB  
[85] 2022-01-24  
[86] 2020-07-23 (PCT/GB2020/051757)  
[87] (WO2021/014156)  
[30] US (62/878,253) 2019-07-24

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[11] **3,145,669**  
[13] C

[51] **Int.Cl. G21C 11/08 (2006.01) F16L 59/12 (2006.01)**  
[25] EN  
[54] **DEVICE FOR INSTALLATION OF THE OUTER HEAT INSULATION OF A NUCLEAR REACTOR VESSEL**  
[54] **DISPOSITIF POUR INSTALLER UN CORPS D'ISOLATION THERMIQUE EXTERNE DE REACTEUR NUCLEAIRE**  
[72] GUBAIDULOV, TIMUR MURATOVICH, RU  
[72] ZHUK, IGOR EVGEN'EVICH, RU  
[72] IL'YIN, SERGEI VLADIMIROVICH, RU  
[72] KOLUSHOV, ALEKSANDR VASIL'EVICH, RU  
[72] STANKEVICH, SVETLANA LEONIDOVNA, RU  
[73] JOINT STOCK COMPANY "ROSENERGOATOM", RU  
[85] 2021-12-30  
[86] 2019-12-31 (PCT/RU2019/001054)  
[87] (WO2021/112713)  
[30] RU (2019139213) 2019-12-03

[11] **3,145,692**  
[13] C

[51] **Int.Cl. F16G 11/12 (2006.01) B66D 1/60 (2006.01)**  
[25] EN  
[54] **CABLE TENSIONING SYSTEMS**  
[54] **SYSTEMES DE MISE SOUS TENSION DE CABLES**  
[72] ZAJKOWSKI, MARK JOHN, US  
[72] KANDIR, HUSEYIN, US  
[72] DANKO, TODD WILLIAM, US  
[72] LIPKIN, DON MARK, US  
[72] GRADY, WAYNE RAY, US  
[72] GRAHAM, ANDREW CRISPIN, US  
[72] HAWKE, TREVOR OWEN, US  
[73] GENERAL ELECTRIC COMPANY, US  
[73] OLIVER CRISPIN ROBOTICS LIMITED, GB  
[86] (3145692)  
[87] (3145692)  
[22] 2022-01-12  
[30] US (17/148,990) 2021-01-14

[11] **3,145,874**  
[13] C

[51] **Int.Cl. B60L 15/00 (2006.01) B60L 50/60 (2019.01)**  
[25] EN  
[54] **TORQUE-EQUALIZING FAULT RESPONSE FOR ELECTRIC VEHICLE**  
[54] **REPONSE DE STABILISATION DE COUPLE EN CASE DE DEFAILLANCE POUR VEHICULE ELECTRIQUE**  
[72] BREESE, RICHARD M., US  
[72] HARRIES, BRIAN N., US  
[72] HITI, SILVA, US  
[72] KOWALEWSKI, DANIEL L., US  
[72] SCHULZ, STEVEN E., US  
[72] TANG, DAVID, US  
[73] RIVIAN IP HOLDINGS, LLC, US  
[86] (3145874)  
[87] (3145874)  
[22] 2022-01-17  
[30] US (17/389058) 2021-07-29

[11] **3,145,929**  
[13] C

[51] **Int.Cl. A61B 10/02 (2006.01) A61B 17/16 (2006.01)**  
[25] EN  
[54] **INTRAOSSEOUS NEEDLE SETS AND KITS**  
[54] **ENSEMBLES ET TROUSSES D'AIGUILLES INTRA-OSSEUSES**  
[72] MILLER, LARRY J., MT  
[72] TITKEMEYER, ROBERT W., MT  
[72] MORGAN, JOHN, MT  
[72] KILCOIN, CHRIS, MT  
[73] TELEFLEX LIFE SCIENCES II LLC, US  
[86] (3145929)  
[87] (3145929)  
[22] 2014-03-14  
[62] 2,907,150  
[30] US (13/835,046) 2013-03-15

[11] **3,146,087**  
[13] C

[51] **Int.Cl. G01S 7/56 (2006.01) B63B 49/00 (2006.01) B63C 11/48 (2006.01)**  
[25] EN  
[54] **SONAR BEAM ZONE PRESENTATION**  
[54] **PRESENTATION DE ZONE DE FAISCEAU SONAR**  
[72] HOOPER, MATHEW J., NZ  
[73] NAVICO HOLDING AS, NO  
[86] (3146087)  
[87] (3146087)  
[22] 2022-01-19  
[30] US (17/179460) 2021-02-19  
[30] US (17/349046) 2021-06-16

[11] **3,147,083**  
[13] C

[51] **Int.Cl. C08L 67/02 (2006.01)**  
[25] EN  
[54] **OPAQUE, NON-PEARLESCENT POLYESTER ARTICLES**  
[54] **ARTICLES EN POLYESTER OPAQUE ET NON PERLE**  
[72] WIELOCH, KELAN, US  
[72] WALSH, JAMES, US  
[72] MILES, WILLIAM, US  
[72] FARRELL, THOMAS, US  
[72] CUDDIGAN, JULIE, US  
[72] RUBILAR, JAVIERA, US  
[72] MYERS, KENNETH, US  
[72] SANDT, ANDREW, US  
[72] ADAMS, MARK, US  
[72] BALL, VINCENT J., IV, US  
[72] LARIANE, YOUCEF, US  
[73] PENN COLOR, INC., US  
[85] 2022-02-04  
[86] 2020-08-21 (PCT/US2020/047348)  
[87] (WO2021/035124)  
[30] US (62/890,266) 2019-08-22  
[30] US (62/936,131) 2019-11-15

[11] **3,147,140**  
[13] C

[51] **Int.Cl. F16L 37/48 (2006.01) F15D 1/02 (2006.01) F16L 55/00 (2006.01)**  
[25] EN  
[54] **TAP CONNECTOR WITH FLOW STABILIZATION**  
[54] **RACCORD DE ROBINET A STABILISATION DE FLUX**  
[72] RENNER, THOMAS, DE  
[73] HUSQVARNA AB, SE  
[86] (3147140)  
[87] (3147140)  
[22] 2016-03-23  
[62] 3,011,366

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[11] **3,147,316**  
[13] C

[51] **Int.Cl. E01C 3/06 (2006.01) F24S 20/00 (2018.01) E02D 3/00 (2006.01)**  
[25] EN  
[54] **EXTRUSION TYPE FROST HEAVE PREVENTING AND HEAT GATHERING SELF-PROTECTIVE DEVICE AND SUBGRADE THEREOF**  
[54] **DISPOSITIF DE PROTECTION AUTONOME CONTRE LE SOULEVEMENT PAR LE GEL ET DE RECUPERATION DE CHALEUR DE TYPE EXTRUSION, ET SOL DE FONDATION CONNEXE**  
[72] YU, QIHAO, CN  
[72] ZHANG, WENQIANG, CN  
[72] JIN, MINGYANG, CN  
[73] NORTHWEST INSTITUTE OF ECO-ENVIRONMENT AND RESOURCES, CHINESE ACADEMY OF SCIENCES, CN  
[86] (3147316)  
[87] (3147316)  
[22] 2022-02-01  
[30] CN (202110321504.3) 2021-03-25

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[11] **3,148,101**  
[13] C

[51] **Int.Cl. H04W 12/06 (2021.01)**  
[25] EN  
[54] **COMMUNICATION METHOD AND RELATED DEVICE**  
[54] **PROCEDE DE COMMUNICATION ET DISPOSITIFS ASSOCIES**  
[72] LEI, ZHONGDING, CN  
[73] HUAWEI TECHNOLOGIES CO., LTD., CN  
[85] 2022-02-15  
[86] 2019-08-15 (PCT/CN2019/100881)  
[87] (WO2021/026927)

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[11] **3,148,374**  
[13] C

[51] **Int.Cl. C21D 1/30 (2006.01) C21D 1/74 (2006.01) C21D 6/00 (2006.01) C21D 9/00 (2006.01) H02K 15/02 (2006.01) C21D 8/12 (2006.01)**  
[25] EN  
[54] **HEAT TREATMENT METHOD AND HEAT TREATMENT FURNACE**  
[54] **METHODE DE TRAITEMENT THERMIQUE ET FOUR DE TRAITEMENT THERMIQUE**  
[72] SUGIYAMA, MASAKI, JP  
[72] TAKAHASHI, SHINICHI, JP  
[72] TAKAHASHI, KENSUKE, JP  
[72] TAKAHARA, KOSUKE, JP  
[73] TOYOTA BOSHOKU KABUSHIKI KAISHA, JP  
[73] KANTO YAKIN KOGYO CO., LTD., JP  
[85] 2022-01-21  
[86] 2021-07-12 (PCT/JP2021/026198)  
[87] (WO2022/030193)  
[30] JP (2020-131622) 2020-08-03

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[11] **3,148,476**  
[13] C

[51] **Int.Cl. G06F 15/173 (2006.01)**  
[25] EN  
[54] **SPATIALLY SELF-VERIFYING ARRAY OF NODES**  
[54] **RESEAU DE NOEUDS A AUTO-VERIFICATION SPATIALE**  
[72] WODRICH, MICHAEL, US  
[72] SANTARONE, MICHAEL, US  
[72] PUGH, RANDALL, US  
[72] DUFF, JASON, US  
[73] MIDDLE CHART, LLC, US  
[85] 2022-01-21  
[86] 2020-02-07 (PCT/US2020/017161)  
[87] (WO2021/006932)  
[30] US (16/504,919) 2019-07-08  
[30] US (16/528,104) 2019-07-31  
[30] US (16/657,660) 2019-10-18  
[30] US (16/688,775) 2019-11-19  
[30] US (16/721,906) 2019-12-19  
[30] US (16/775,223) 2020-01-28

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[11] **3,148,627**  
[13] C

[51] **Int.Cl. G01N 23/04 (2018.01)**  
[25] EN  
[54] **COMPONENT IMAGING SYSTEMS, APPARATUS, AND METHODS**  
[54] **SYSTEMES D'IMAGERIE DE COMPOSANT, APPAREIL ET METHODES**  
[72] FERRO, ANDREW FRANK, US  
[72] COOMES, PETER, US  
[73] GENERAL ELECTRIC COMPANY, US  
[86] (3148627)  
[87] (3148627)  
[22] 2022-02-11  
[30] US (17/326,778) 2021-05-21

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[11] **3,148,771**  
[13] C

[51] **Int.Cl. B04B 11/04 (2006.01) B04B 1/14 (2006.01) B04B 13/00 (2006.01)**  
[25] EN  
[54] **CENTRIFUGAL SEPARATION SYSTEM AND METHOD OF OPERATING A CENTRIFUGAL SEPARATOR**  
[54] **SYSTEME DE SEPARATION CENTRIFUGE ET PROCEDE DE FONCTIONNEMENT D'UN SEPARATEUR CENTRIFUGE**  
[72] LARSSON, PER-GUSTAF, SE  
[73] ALFA LAVAL CORPORATE AB, SE  
[85] 2022-01-26  
[86] 2020-07-03 (PCT/EP2020/068856)  
[87] (WO2021/032353)  
[30] EP (19192213.7) 2019-08-19

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[11] **3,148,805**  
[13] C

[51] **Int.Cl. G01N 27/333 (2006.01)**  
[25] EN  
[54] **ELECTROCHEMICAL SENSOR**  
[54] **CAPTEUR ELECTROCHIMIQUE**  
[72] CHEN, XIN, US  
[72] HU, JINBO, US  
[72] BUHLMANN, PHILIPPE, US  
[73] ROSEMOUNT INC., US  
[73] REGENTS OF THE UNIVERSITY OF MINNESOTA, US  
[85] 2022-01-26  
[86] 2020-07-01 (PCT/US2020/040486)  
[87] (WO2021/021379)  
[30] US (62/879,886) 2019-07-29  
[30] US (16/684,285) 2019-11-14

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[11] **3,148,818**  
[13] C

[51] **Int.Cl. A61M 1/14 (2006.01) A61M 1/16 (2006.01) A61M 1/20 (2006.01) A61M 1/34 (2006.01) A61M 31/00 (2006.01)**

[25] EN

[54] **ACCESSING ASSEMBLY FOR HEMODIALYSIS ADMINISTRATION**

[54] **ENSEMBLE D'ACCES POUR UNE ADMINISTRATION PAR HEMODIALYSE**

[72] RAMIREZ, JOSE, US

[73] RAMIREZ, JOSE, US

[85] 2022-01-26

[86] 2019-07-31 (PCT/US2019/044348)

[87] (WO2021/021159)

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[11] **3,150,013**  
[13] C

[51] **Int.Cl. E05B 47/00 (2006.01) E05B 17/22 (2006.01) E05B 65/10 (2006.01)**

[25] EN

[54] **SENSING AND CONTROL OF ACCESS CONTROL DEVICES**

[54] **DETECTION ET COMMANDE DE DISPOSITIFS DE CONTROLE D'ACCES**

[72] KUSANALE, VISHAL S., IN

[72] VEDAMURTHY, AVINASH K., IN

[72] CARPENTER, JOHN C., US

[73] SCHLAGE LOCK COMPANY LLC, US

[85] 2022-02-04

[86] 2020-08-06 (PCT/US2020/045196)

[87] (WO2021/026348)

[30] US (16/532,999) 2019-08-06

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[11] **3,150,223**  
[13] C

[51] **Int.Cl. H04N 5/05 (2006.01) H04N 21/8547 (2011.01)**

[25] EN

[54] **FILTERING AND SMOOTHING SOURCES IN CAMERA TRACKING**

[54] **FILTRAGE ET LISSAGE DE SOURCES DANS LE SUIVI D'UNE CAMERA**

[72] SAUERMAN, FELIX, US

[73] SONY GROUP CORPORATION, JP

[73] SONY PICTURES ENTERTAINMENT INC., US

[85] 2022-03-04

[86] 2020-12-10 (PCT/US2020/064248)

[87] (WO2021/119274)

[30] US (62/947,702) 2019-12-13

[30] US (16/990,274) 2020-08-11

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[11] **3,150,249**  
[13] C

[51] **Int.Cl. C07D 317/46 (2006.01) A01N 43/30 (2006.01)**

[25] EN

[54] **PIPERONYLIC ACID DERIVATIVE AND APPLICATION THEREOF**

[54] **DERIVE D'ACIDE PIPERIQUE ET SON APPLICATION**

[72] WU, HONGFEI, CN

[72] XU, JINGBO, CN

[72] LIU, SHAOWU, CN

[72] YU, HAIBO, CN

[72] BAN, LANFENG, CN

[72] XU, LIBAO, CN

[72] CHENG, XUEMING, CN

[72] GUO, CHUNXIAO, CN

[72] SUN, NINGNING, CN

[73] SHENYANG SINOCEM AGROCHEMICALS R&D CO., LTD., CN

[73] JIANGSU YANGNONG CHEMICAL CO., LTD., CN

[85] 2022-03-04

[86] 2020-09-01 (PCT/CN2020/112749)

[87] (WO2021/043115)

[30] CN (201910842263.X) 2019-09-06

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[11] **3,150,831**  
[13] C

[51] **Int.Cl. H04M 3/51 (2006.01)**

[25] EN

[54] **DEVICE, SYSTEM AND METHOD FOR SELECTING CALLS FOR FORWARDING TO A COMMUNICATION DEVICE**

[54] **DISPOSITIF, SYSTEME ET PROCEDE DE SELECTION D'APPELS A RETRANSMETTRE A UN DISPOSITIF DE COMMUNICATION**

[72] SMETEK, MATEUSZ, PL

[72] NOWISZEWSKA, ELWIRA, PL

[72] HALUN, JAKUB, PL

[72] KAPLITA, GRZEGORZ, PL

[72] JURZAK, PAWEL, PL

[72] JANDA, MICHAL, PL

[72] KUCHARSKI, WOJCIECH, PL

[72] CZYRNEK, WOJCIECH, PL

[73] MOTOROLA SOLUTIONS, INC., US

[85] 2022-02-11

[86] 2019-08-16 (PCT/PL2019/050046)

[87] (WO2021/034206)

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[11] **3,151,204**  
[13] C

[51] **Int.Cl. G10L 19/02 (2013.01)**

[25] EN

[54] **TIME-VARYING TIME-FREQUENCY TILINGS USING NON-UNIFORM ORTHOGONAL FILTERBANKS BASED ON MDCT ANALYSIS/SYNTHESIS AND TDAR**

[54] **PAVAGES TEMPS-FREQUENCE VARIANT DANS LE TEMPS UTILISANT DES BANCS DE FILTRES ORTHOGONAUX NON UNIFORMES FONDES SUR UNE ANALYSE/SYNTHESE MDCT ET TDAR**

[72] WERNER, NILS, DE

[72] EDLER, BERND, DE

[73] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE

[85] 2022-02-14

[86] 2020-08-25 (PCT/EP2020/073742)

[87] (WO2021/037847)

[30] EP (19194145.9) 2019-08-28

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[11] **3,151,484**  
[13] C

[51] **Int.Cl. C07F 15/00 (2006.01) C23C 18/08 (2006.01)**

[25] EN

[54] **NOVEL PLATINUM COMPLEX**

[54] **NOUVEAU COMPLEXE DU PLATINE**

[72] SIEVI, ROBERT, DE

[72] WALTER, RICHARD, DE

[72] RAUTER, HOLGER, DE

[72] GOCK, MICHAEL, DE

[72] ULLAND, HOLGER, DE

[73] HERAEUS DEUTSCHLAND GMBH & CO. KG, DE

[85] 2022-03-17

[86] 2020-07-01 (PCT/EP2020/068465)

[87] (WO2021/058154)

[30] EP (19199475.5) 2019-09-25

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[11] **3,153,238**  
[13] C

[51] **Int.Cl. H04L 67/101 (2022.01) H04L 43/0852 (2022.01)**

[25] EN

[54] **TECHNIQUES FOR STEERING NETWORK TRAFFIC TO REGIONS OF A CLOUD COMPUTING SYSTEM**

[54] **TECHNIQUES POUR DIRIGER LE TRAFIC RESEAU VERS DES REGIONS D'UN SYSTEME INFONUAGIQUE**

[72] FEDOROV, SERGEY, US  
[72] WILLIAMS, PHELPS WATSON, US  
[72] BEHNAM, NIOSHA, US  
[73] NETFLIX, INC., US  
[85] 2022-03-03  
[86] 2020-09-03 (PCT/US2020/049264)  
[87] (WO2021/046263)  
[30] US (62/897,116) 2019-09-06  
[30] US (16/693,180) 2019-11-22

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[11] **3,153,534**  
[13] C

[51] **Int.Cl. G06F 16/26 (2019.01) G06F 16/242 (2019.01) G06F 16/248 (2019.01) G06F 40/205 (2020.01) G06F 40/279 (2020.01)**

[25] EN

[54] **USING NATURAL LANGUAGE EXPRESSIONS TO DEFINE DATA VISUALIZATION CALCULATIONS THAT SPAN ACROSS MULTIPLE ROWS OF DATA FROM A DATABASE**

[54] **UTILISATION D'EXPRESSIONS EN LANGAGE NATUREL POUR DEFINIR DES CALCULS DE VISUALISATION DE DONNEES QUI S'ETENDENT A TRAVERS DE MULTIPLES RANGEES DE DONNEES A PARTIR D'UNE BASE DE DONNEES**

[72] GOLDNER, ELIANA LEITE, US  
[72] ERICSON, JEFFREY, US  
[72] DJALALI, ALEX, US  
[72] SETLUR, VIDYA RAGHAVAN, US  
[72] DUAN, SUYANG, US  
[73] TABLEAU SOFTWARE, LLC, US  
[85] 2022-03-04  
[86] 2020-09-08 (PCT/US2020/049769)  
[87] (WO2021/046546)  
[30] US (62/897,187) 2019-09-06  
[30] US (16/681,754) 2019-11-12

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[11] **3,153,691**  
[13] C

[51] **Int.Cl. G06F 16/26 (2019.01) G06F 16/22 (2019.01)**

[25] EN

[54] **UTILIZING APPROPRIATE MEASURE AGGREGATION FOR GENERATING DATA VISUALIZATIONS OF MULTI-FACT DATASETS**

[54] **UTILISATION D'UNE AGREGATION DE MESURES APPROPRIEES POUR GENERER DES VISUALISATIONS DE DONNEES D'ENSEMBLES DE DONNEES MULTI-FAITS**

[72] EUBANK, CHRISTIAN, US  
[72] TALBOT, JUSTIN, US  
[73] TABLEAU SOFTWARE, LLC, US  
[85] 2022-03-07  
[86] 2020-08-07 (PCT/US2020/045461)  
[87] (WO2021/050182)  
[30] US (16/570,969) 2019-09-13

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[11] **3,153,978**  
[13] C

[51] **Int.Cl. C04B 20/06 (2006.01) C04B 14/18 (2006.01) C04B 26/26 (2006.01) C04B 38/08 (2006.01) C09C 3/00 (2006.01)**

[25] EN

[54] **EXPANDED GRANULAR MATERIAL CONSISTING OF MINERAL MATERIAL**

[54] **MATERIAU GRANULAIRE EXPANSE CONSTITUE D'UN MATERIAU MINERAL**

[72] KREMER, HARTMUT, AT  
[72] NEUBACHER, JULIAN, AT  
[73] OMYA INTERNATIONAL AG, CH  
[85] 2022-03-10  
[86] 2020-09-23 (PCT/EP2020/076555)  
[87] (WO2021/058556)  
[30] EP (19199056.3) 2019-09-23

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[11] **3,154,309**  
[13] C

[51] **Int.Cl. G10L 17/04 (2013.01) G10L 17/26 (2013.01) G10L 25/30 (2013.01) G10L 15/16 (2006.01)**

[25] EN

[54] **Z-VECTORS: SPEAKER EMBEDDINGS FROM RAW AUDIO USING SINCNET, EXTENDED CNN ARCHITECTURE, AND IN-NETWORK AUGMENTATION TECHNIQUES**

[54] **VECTEURS Z : PLONGEMENT DE LOCUTEURS A PARTIR DE SIGNAUX AUDIO BRUTS A L'AIDE DE SINCNET, D'UNE ARCHITECTURE CNN ETENDU ET DE TECHNIQUES D'AUGMENTATION DANS LE RESEAU**

[72] KHOURY, ELIE, US  
[72] SIVARAMAN, GANESH, US  
[72] CHEN, TIANXIANG, US  
[72] VIDWANS, AMRUTA, US  
[73] PINDROP SECURITY, INC., US  
[85] 2022-03-10  
[86] 2020-10-08 (PCT/US2020/054825)  
[87] (WO2021/072109)  
[30] US (62/914,182) 2019-10-11

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[11] **3,154,762**  
[13] C

[51] **Int.Cl. A61K 31/4725 (2006.01) A61P 35/00 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING THROMBOLYTIC PEPTIDE-TETRAHYDROISOQUINOLINE CONJUGATE**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT UN CONJUGUE PEPTIDE-TETRAHYDROISOQUINOLEINE THROMBOLYTIQUE**

[72] CHOU, DAVID CHIH-KUANG, TW  
[73] LUMOSA THERAPEUTICS CO., LTD., CN  
[85] 2022-03-15  
[86] 2020-09-24 (PCT/US2020/052514)  
[87] (WO2021/062003)  
[30] US (62/905,679) 2019-09-25

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[11] **3,155,269**  
[13] C

[51] **Int.Cl. G06T 19/00 (2011.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR ROTATING A 3D DISPLAY**  
[54] **SYSTEMES ET METHODES POUR EFFECTUER LA ROTATION D'UN AFFICHAGE 3D**  
[72] MELLING, ALAN RICHARD, US  
[72] VELEZ SALAS, PEDRO DAMIAN, US  
[72] SCHINDLER, GRANT EVAN, US  
[72] FRANCOIS, BRUNO JEAN, US  
[73] CILIA, REMY TRISTAN, US  
[73] CARVANA, LLC, US  
[86] (3155269)  
[87] (3155269)  
[22] 2022-04-06  
[30] US (17/227,061) 2021-04-09

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[11] **3,155,398**  
[13] C

[51] **Int.Cl. B29C 64/118 (2017.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B29C 64/188 (2017.01) B29C 64/209 (2017.01) B29C 64/245 (2017.01) B33Y 40/20 (2020.01)**  
[25] EN  
[54] **NEAR NET SHAPE ADDITIVE MANUFACTURING**  
[54] **FABRICATION ADDITIVE DE FORME QUASI NETTE**  
[72] SUSNJARA, KENNETH J., US  
[72] SMIDDY, BRIAN S., US  
[72] FUQUAY, JOHN, US  
[73] THERMWOOD CORPORATION, US  
[85] 2022-04-20  
[86] 2020-11-20 (PCT/US2020/061550)  
[87] (WO2021/102290)  
[30] US (16/692,825) 2019-11-22

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[11] **3,155,423**  
[13] C

[51] **Int.Cl. G06F 16/26 (2019.01) G06F 3/0481 (2022.01) G06F 16/24 (2019.01) G06F 3/04842 (2022.01)**  
[25] EN  
[54] **METHODS AND USER INTERFACES FOR VISUALLY ANALYZING DATA VISUALIZATIONS WITH MULTI-ROW CALCULATIONS**  
[54] **PROCEDES ET INTERFACES UTILISATEUR POUR ANALYSER VISUELLEMENT DES VISUALISATIONS DE DONNEES AVEC DES CALCULS A RANGEES MULTIPLES**  
[72] TALBOT, JUSTIN, US  
[72] FORSTROM, AMY NICOLE, US  
[72] CORY, DANIEL, US  
[72] EUBANK, CHRISTIAN GABRIEL, US  
[72] BOOTH JR., JEFFREY MARK, US  
[72] BORDEN, NICOLAS, US  
[73] TABLEAU SOFTWARE, LLC, US  
[85] 2022-03-21  
[86] 2020-09-30 (PCT/US2020/053412)  
[87] (WO2021/091638)  
[30] US (16/675,122) 2019-11-05

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[11] **3,155,853**  
[13] C

[51] **Int.Cl. H01R 12/57 (2011.01) H01R 24/60 (2011.01) H01R 13/04 (2006.01)**  
[25] EN  
[54] **SURFACE-MOUNTABLE (SMD) THERMOCOUPLE CONNECTOR WITH REVERSE POLARITY PROTECTION**  
[54] **CONNECTEUR DE THERMOCOUPLE A MONTAGE EN SURFACE (SMD) AVEC PROTECTION CONTRE LA POLARITE INVERSE**  
[72] LEIBIG, KENNETH J., US  
[72] ANNEN, MATTHEW, US  
[73] OMEGA ENGINEERING, INC., US  
[85] 2022-03-24  
[86] 2019-12-05 (PCT/US2019/064609)  
[87] (WO2021/061174)  
[30] US (62/905,866) 2019-09-25  
[30] US (16/703,476) 2019-12-04

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[11] **3,156,677**  
[13] C

[51] **Int.Cl. H01Q 1/52 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR SEPARATING HIGH LEVEL ELECTROMAGNETIC DISTURBANCES FROM MICROWAVE SIGNALS**  
[54] **PROCEDE ET DISPOSITIF DE SEPARATION DE PERTURBATIONS ELECTROMAGNETIQUES DE HAUT NIVEAU DE SIGNAUX MICRO-ONDES**  
[72] BIRNBACH, CURTIS A., US  
[73] ADVANCED FUSION SYSTEMS LLC, US  
[85] 2022-04-29  
[86] 2020-01-09 (PCT/US2020/012914)  
[87] (WO2021/086425)  
[30] US (16/671,883) 2019-11-01

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[11] **3,156,908**  
[13] C

[51] **Int.Cl. A61B 5/369 (2021.01) A61B 5/377 (2021.01) A61B 5/38 (2021.01) A61B 5/383 (2021.01) A61B 5/389 (2021.01) A61B 5/395 (2021.01)**  
[25] EN  
[54] **MOBILE WEARABLE MONITORING SYSTEMS**  
[54] **SYSTEMES DE SURVEILLANCE POUVANT ETRE MOBILES ET PORTES**  
[72] BURTON, DAVID, AU  
[73] BURTON, DAVID, AU  
[86] (3156908)  
[87] (3156908)  
[22] 2016-01-06  
[62] 2,968,645  
[30] AU (2015900015) 2015-01-06

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[11] **3,157,276**  
[13] C

[51] **Int.Cl. B64C 13/16 (2006.01) B64C 19/00 (2006.01) B64D 45/04 (2006.01)**

[25] FR

[54] **METHOD FOR AIDING THE STEERING OF A ROTORCRAFT COMPRISING AT LEAST TWO ENGINES**

[54] **PROCEDE D'ASSISTANCE AU PILOTAGE D'UN GIRAVION COMPORTANT AU MOINS DEUX MOTEURS**

[72] RAYNAUD, GUILLAUME, FR  
[72] CALMES, NICOLAS, FR  
[73] AIRBUS HELICOPTERS, FR  
[86] (3157276)  
[87] (3157276)  
[22] 2022-05-03  
[30] FR (2105645) 2021-05-31

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[11] **3,157,528**  
[13] C

[51] **Int.Cl. G01T 1/208 (2006.01) G01T 3/06 (2006.01) G01T 1/203 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR NEUTRON AND GAMMA RADIATION DETECTION USING NON-HOMOGENEOUS MATERIAL SCINTILLATOR**

[54] **SYSTEME ET PROCEDE DE DETECTION DE NEUTRONS ET DE RAYONNEMENTS GAMMA A L'AIDE D'UN SCINTILLATEUR EN MATERIAU NON HOMOGENE**

[72] BRODSKY, JASON PHILIP, US  
[72] BOWDEN, NATHANIEL SEAN, US  
[73] LAWRENCE LIVERMORE NATIONAL SECURITY, LLC, US  
[85] 2022-04-08  
[86] 2020-10-08 (PCT/US2020/054812)  
[87] (WO2021/072097)  
[30] US (62/912,350) 2019-10-08  
[30] US (17/065,103) 2020-10-07

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[11] **3,158,823**  
[13] C

[51] **Int.Cl. B01D 53/14 (2006.01) G01W 1/08 (2006.01)**

[25] EN

[54] **GASEOUS MATTER CAPTURE SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE CAPTURE DE MATIERE GAZEUSE**

[72] OREN, ERAN, IL  
[73] HIGH HOPES LABS LTD., IL  
[85] 2022-05-18  
[86] 2020-12-17 (PCT/IL2020/051301)  
[87] (WO2021/124332)  
[30] US (62/952,248) 2019-12-21

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[11] **3,158,852**  
[13] C

[51] **Int.Cl. H02G 1/06 (2006.01) E01C 19/00 (2006.01) E01C 23/09 (2006.01) E02F 5/12 (2006.01) F16L 1/024 (2006.01)**

[25] EN

[54] **DEVICE FOR REINSTATEMENT OF A MICRO-TRENCH**

[54] **DISPOSITIF POUR LA REINTEGRATION D'UNE MICROTRANCHEE**

[72] LOOMIS, ROBERT, US  
[72] GOODWIN, JACOB, US  
[73] THE WILLAMETTE VALLEY COMPANY LLC, US  
[86] (3158852)  
[87] (3158852)  
[22] 2017-03-10  
[62] 2,960,623  
[30] US (15/070,530) 2016-03-15  
[30] US (15/443,649) 2017-02-27

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[11] **3,159,954**  
[13] C

[51] **Int.Cl. C09D 1/02 (2006.01)**

[25] EN

[54] **PROTECTIVE COATINGS FOR METALS**

[54] **REVETEMENTS PROTECTEURS POUR METAUX**

[72] MACKIEWICZ, AGNIESZKA, GB  
[73] MCT HOLDINGS LTD,  
[85] 2022-05-30  
[86] 2020-12-04 (PCT/EP2020/084732)  
[87] (WO2021/110964)  
[30] GB (1917790.6) 2019-12-05

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[11] **3,159,974**  
[13] C

[51] **Int.Cl. C12N 1/12 (2006.01) C12P 7/6427 (2022.01) C11B 1/00 (2006.01) C12N 1/00 (2006.01) C12N 1/10 (2006.01) C12P 7/64 (2022.01) C12N 1/14 (2006.01)**

[25] EN

[54] **METHODS OF OIL PRODUCTION IN MICROORGANISMS**

[54] **PROCEDES DE PRODUCTION D'HUILE DANS DES MICRO-ORGANISMES**

[72] SUN, ZHIYONG, CA  
[72] ARMENTA, ROBERTO E., CA  
[72] VALENTINE, MERCIA, CA  
[73] MARA RENEWABLES CORPORATION, CA  
[86] (3159974)  
[87] (3159974)  
[22] 2015-05-21  
[62] 2,953,060  
[30] US (62/001,912) 2014-05-22

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[11] **3,160,389**  
[13] C

[51] **Int.Cl. A01N 43/40 (2006.01) A01P 13/00 (2006.01)**

[25] EN

[54] **HERBICIDAL COMPOSITIONS OF PYRIDINE-2-CARBOXYLIC ACIDS AND ACCASE INHIBITORS**

[54] **COMPOSITIONS HERBICIDES D'ACIDES PYRIDINE-2-CARBOXYLIQUE ET INHIBITEURS D'ACCASE**

[72] YERKES, CARLA N., US  
[72] SATCHIVI, NORBERT M., US  
[72] BANGEL, BRYSTON L., US  
[73] CORTEVA AGRISCIENCE LLC, US  
[86] (3160389)  
[87] (3160389)  
[22] 2014-01-24  
[62] 2,898,356  
[30] US (61/756,930) 2013-01-25

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[11] **3,160,512**  
[13] C

[51] **Int.Cl. H01P 1/04 (2006.01) H01R 11/01 (2006.01) H05K 1/18 (2006.01)**  
[25] EN  
[54] **HIGH-FREQUENCY LINE STRUCTURE, SUBASSEMBLY, LINE CARD, AND METHOD FOR MANUFACTURING HIGH-FREQUENCY LINE STRUCTURE**  
[54] **STRUCTURE DE LIGNE A HAUTE FREQUENCE, SOUS-ENSEMBLE, CARTE DE LIGNE, ET PROCEDE DE FABRICATION DE STRUCTURE DE LIGNE A HAUTE FREQUENCE**  
[72] TANOBE, HIROMASA, JP  
[72] OZAKI, JOSUKE, JP  
[73] NIPPON TELEGRAPH AND TELEPHONE CORPORATION, JP  
[85] 2022-05-05  
[86] 2019-11-13 (PCT/JP2019/044530)  
[87] (WO2021/095163)

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[11] **3,160,714**  
[13] C

[51] **Int.Cl. G06N 20/00 (2019.01) G06F 40/279 (2020.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR GENERATING MOBILE ENABLED EXTRACTION MODELS**  
[54] **METHODES ET SYSTEMES POUR GENERER DES MODELES D'EXTRACTION FONCTIONNANT SUR LA TECHNOLOGIE MOBILE**  
[72] ROSSI, DOMINIC MIGUEL, US  
[72] LEE, HUI FANG, US  
[72] RIMCHALA, THARATHORN, US  
[73] INTUIT INC., US  
[85] 2022-05-26  
[86] 2022-03-24 (PCT/US2022/021703)  
[87] (WO2022/231739)  
[30] US (17/246,277) 2021-04-30

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[11] **3,160,834**  
[13] C

[51] **Int.Cl. A61K 31/58 (2006.01) A61K 9/10 (2006.01) A61K 31/19 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **AMORPHOUS PHARMACEUTICAL COMPOSITIONS OF ABIRATERONE ACETATE**  
[54] **COMPOSITIONS PHARMACEUTIQUES AMORPHES D'ACETATE D'ABIRATERONE**  
[72] NIROGI, RAMAKRISHNA, IN  
[72] DOGPARTI, DHANUNJAY KUMAR, IN  
[72] MUDIGONDA, KOTESHWARA, IN  
[72] RAVULA, JYOTHSNA, IN  
[72] JASTI, VENKATESWARLU, IN  
[73] SUVEN LIFE SCIENCES LIMITED, IN  
[85] 2022-05-09  
[86] 2020-11-13 (PCT/IB2020/060691)  
[87] (WO2021/094992)  
[30] IN (201941046346) 2019-11-14

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[11] **3,161,531**  
[13] C

[51] **Int.Cl. H02J 3/38 (2006.01)**  
[25] EN  
[54] **METHOD AND SYSTEM FOR CONTROLLING CONTINOUS LOW VOLTAGE RIDE-THROUGH AND HIGH VOLTAGE RIDE-THROUGH OF PERMANENT MAGNET DIRECT-DRIVEN WIND TURBINE**  
[54] **METHODE ET SYSTEME DE CONTROLE DU PASSAGE CONTINU DE LA BASSE TENSION ET DE LA HAUTE TENSION D'UNE EOLIENNE A AIMANT PERMANENT A ENTRAINEMENT DIRECT**  
[72] HUANG, YUANYAN, CN  
[72] ZHOU, JIE, CN  
[72] ZHANG, SHAOHUA, CN  
[72] CHEN, XIN, CN  
[73] GOLDWIND SCIENCE & TECHNOLOGY CO., LTD., CN  
[85] 2022-06-10  
[86] 2020-06-08 (PCT/CN2020/094909)  
[87] (WO2021/114588)  
[30] CN (201911279371.7) 2019-12-13

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[11] **3,162,196**  
[13] C

[51] **Int.Cl. C22B 1/243 (2006.01) C22B 1/245 (2006.01) C22B 26/12 (2006.01)**  
[25] EN  
[54] **THERMAL TREATMENT OF MINERAL RAW MATERIALS USING A MECHANICAL FLUIDISED BED REACTOR**  
[54] **TRAITEMENT THERMIQUE DE MATIERES PREMIERES MINERALES A L'AIDE D'UN REACTEUR A LIT FLUIDISE MECANIQUE**  
[72] HOPPE, ANDREAS, DE  
[72] DIETRICH, MEIKE, DE  
[72] HOLZER, JASMIN, DE  
[72] SCHNEBERGER, JUERGEN, DE  
[72] RUESCHHOFF, SVEN, DE  
[72] GOMEZ, RODRIGO, DE  
[72] BRACHT, LUKAS, DE  
[73] FLSMIDTH A/S, DK  
[85] 2022-06-16  
[86] 2021-01-11 (PCT/EP2021/050370)  
[87] (WO2021/148267)  
[30] DE (10 2020 200 602.4) 2020-01-20  
[30] LU (LU101613) 2020-01-20

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[11] **3,162,439**  
[13] C

[51] **Int.Cl. A01G 2/10 (2018.01) A01G 24/18 (2018.01)**  
[25] EN  
[54] **METHOD OF PROPAGATING A CANNABIS CUTTING**  
[54] **PROCEDE DE PROPAGATION D'UNE BOUTURE DE CANNABIS**  
[72] JANSSEN, FRANK, DK  
[73] ROCKWOOL A/S, DK  
[85] 2022-06-20  
[86] 2020-12-29 (PCT/EP2020/087981)  
[87] (WO2021/136781)  
[30] US (16/730,287) 2019-12-30  
[30] EP (19219996.6) 2019-12-30

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[11] **3,162,952**  
[13] C

[51] **Int.Cl. A61K 31/404 (2006.01) A61K 31/13 (2006.01) A61K 31/445 (2006.01) A61P 25/00 (2006.01)**

[25] EN

[54] **TREATING BEHAVIORAL AND PSYCHOLOGICAL SYMPTOMS IN DEMENTIA PATIENTS**

[54] **TRAITEMENT DE SYMPTOMES COMPORTEMENTAUX ET PSYCHOLOGIQUES CHEZ DES PATIENTS ATTEINTS DE DEMENCE**

[72] NIROGI, RAMAKRISHNA, IN

[72] SHINDE, ANIL KARBHARI, IN

[72] JAYARAJAN, PRADEEP, IN

[72] JETTA, SATISH, IN

[72] PALACHARLA, RAGHAVA CHOWDARY, IN

[72] PANDEY, SANTOSH KUMAR, IN

[72] MOHAMMED, ABDUL RASHEED, IN

[72] BENADE, VIJAY SIDRAM, IN

[72] GOYAL, VINOD KUMAR, IN

[72] SUBRAMANIAN, RAMKUMAR, IN

[72] RAVULA, JYOTHSNA, IN

[72] JASTI, VENKATESWARLU, IN

[73] SUVEN LIFE SCIENCES LIMITED, IN

[85] 2022-05-26

[86] 2020-12-02 (PCT/IB2020/061383)

[87] (WO2021/111330)

[30] IN (201941049516) 2019-12-02

[30] IN (201941049517) 2019-12-02

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[11] **3,163,568**  
[13] C

[51] **Int.Cl. C07D 217/22 (2006.01) A61K 31/472 (2006.01) A61P 3/00 (2006.01)**

[25] EN

[54] **ISOQUINOLINE DERIVATIVES FOR USE IN TREATING GLUT1 DEFICIENCY SYNDROME**

[54] **DERIVES D'ISOQUINOLEINE DESTINES A ETRE UTILISES DANS LE TRAITEMENT DU SYNDROME DE CARENCE EN GLUT1**

[72] MAGISTRETTI, PIERRE, CH

[72] LENGACHER, SYLVAIN, CH

[72] FINSTERWALD, CHARLES, CH

[72] RITCHIE, TIMOTHY JOHN, GB

[73] GLIAPHARM SA, CH

[85] 2022-06-30

[86] 2020-12-29 (PCT/EP2020/087950)

[87] (WO2021/136763)

[30] EP (19220107.7) 2019-12-30

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[11] **3,163,649**  
[13] C

[51] **Int.Cl. B32B 27/08 (2006.01) B29C 63/00 (2006.01) B32B 27/34 (2006.01) B29C 53/58 (2006.01) B29C 53/60 (2006.01) B29C 63/10 (2006.01)**

[25] FR

[54] **MULTILAYER STRUCTURE FOR TRANSPORTING OR STORING HYDROGEN**

[54] **STRUCTURE MULTICOUCHE POUR LE TRANSPORT OU LE STOCKAGE DE L'HYDROGENE**

[72] DUFAURE, NICOLAS, FR

[72] DANG, PATRICK, FR

[72] GOUPIL, ANTOINE, KR

[73] ARKEMA FRANCE, FR

[85] 2022-07-04

[86] 2021-01-26 (PCT/FR2021/050140)

[87] (WO2021/152254)

[30] FR (FR2000817) 2020-01-28

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[11] **3,163,831**  
[13] C

[51] **Int.Cl. F24F 13/32 (2006.01) F04D 25/06 (2006.01) F04D 25/08 (2006.01) F04D 25/12 (2006.01) F04D 29/64 (2006.01) F24F 7/007 (2006.01) H04R 1/00 (2006.01)**

[25] EN

[54] **SPEAKER FAN SYSTEM AND METHOD**

[54] **SYSTEME DE VENTILATEUR HAUT-PARLEUR ET METHODE**

[72] KARST, DANIEL L., US

[72] PUFFER, BENJAMIN THORPE, US

[72] COFFEY, BRENT ELLIOTT, US

[73] BROAN-NUTONE LLC, US

[86] (3163831)

[87] (3163831)

[22] 2014-11-05

[62] 2,869,771

[30] US (61/900,281) 2013-11-05

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[11] **3,164,144**  
[13] C

[51] **Int.Cl. B23K 9/12 (2006.01) B23K 9/28 (2006.01)**

[25] EN

[54] **WELD WIRE GUIDE CONDUIT**

[54] **CONDUIT DE GUIDAGE DE FIL DE SOUDURE**

[72] COOPER, EDWARD L., US

[72] KHAKHALEV, ALEXANDER, US

[73] ELCO ENTERPRISES, INC., US

[85] 2022-07-07

[86] 2021-01-08 (PCT/US2021/012716)

[87] (WO2021/142273)

[30] US (62/959,330) 2020-01-10

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[11] **3,165,581**  
[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 1PAKH79**

[54] **MAIS AUTOGAME 1PAKH79**

[72] DOLAN, DENNIS JAMES, US

[72] WALCH, MATTHEW DAVID, US

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

[86] (3165581)

[87] (3165581)

[22] 2022-06-27

[30] US (63/219,845) 2021-07-09

[30] US (17/807,403) 2022-06-17

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[11] **3,165,606**  
[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 1PGGG27**

[54] **MAIS AUTOGAME 1PGGG27**

[72] HENDRICKX, LEONARDUS JOHANNES MARIA, US

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

[86] (3165606)

[87] (3165606)

[22] 2022-06-27

[30] US (63/219,846) 2021-07-09

[30] US (17/807,404) 2022-06-17

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[11] **3,165,618**  
[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 PH4CTK**  
[54] **MAIS AUTOGAME PH4CTK**  
[72] FOX, RUSSELL, US  
[72] HEFFNER, ELLIOT LEE, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165618)  
[87] (3165618)  
[22] 2022-06-27

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[11] **3,165,633**  
[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 PH486R**  
[54] **MAIS AUTOGAME PH486R**  
[72] HEFFNER, ELLIOT LEE, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165633)  
[87] (3165633)  
[22] 2022-06-27

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[11] **3,165,920**  
[13] C  
[51] **Int.Cl. H04R 1/10 (2006.01) H04R 1/00 (2006.01)**  
[25] EN  
[54] **BONE CONDUCTION EARPHONES**  
[54] **ECOUTEUR A CONDUCTION OSSEUSE**  
[72] WANG, ZHEN, CN  
[72] LIU, ZHIQING, CN  
[72] WANG, YONGGEN, CN  
[72] MAO, XINNAN, CN  
[73] SHENZHEN SHOKZ CO., LTD., CN  
[85] 2022-06-24  
[86] 2021-04-29 (PCT/CN2021/090958)  
[87] (WO2021/219076)  
[30] CN (202020720127.1) 2020-04-30  
[30] CN (202020720129.0) 2020-04-30  
[30] CN (202010367107.5) 2020-04-30

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[11] **3,165,623**  
[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 PH4D62**  
[54] **MAIS AUTOGAME PH4D62**  
[72] COLEMAN, TRAVIS KORRY, US  
[72] HENDRICKX, LEONARDUS JOHANNES MARIA, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165623)  
[87] (3165623)  
[22] 2022-06-27

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[11] **3,165,897**  
[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 1PSSB90**  
[54] **MAIS AUTOGAME 1PSSB90**  
[72] KING, STEVEN PAUL, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165897)  
[87] (3165897)  
[22] 2022-06-28  
[30] US (63/219,847) 2021-07-09  
[30] US (17/807,409) 2022-06-17

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[11] **3,165,923**  
[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 PH4CWP**  
[54] **MAIS AUTOGAME PH4CWP**  
[72] FOX, RUSSELL, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165923)  
[87] (3165923)  
[22] 2022-06-28  
[30] US (17/366,075) 2021-07-02

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[11] **3,165,625**  
[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 PH4DFV**  
[54] **MAIS AUTOGAME PH4DFV**  
[72] CHANDLER, MICHAEL ADAM, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165625)  
[87] (3165625)  
[22] 2022-06-27

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[11] **3,165,905**  
[13] C  
[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 7/10 (2016.01) A01H 6/46 (2018.01) A01H 1/00 (2006.01) A01H 5/00 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **MAIZE INBRED 1PCAS30**  
[54] **MAIS AUTOGAME 1PCAS30**  
[72] COLEMAN, TRAVIS KORRY, US  
[73] PIONEER HI-BRED INTERNATIONAL, INC., US  
[86] (3165905)  
[87] (3165905)  
[22] 2022-06-28  
[30] US (17/807,429) 2022-06-17  
[30] US (63/219,852) 2021-07-09

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[11] **3,166,042**

[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 15/62 (2006.01) C12Q 1/68 (2018.01)**

[25] EN

[54] **MAIZE INBRED 1PQRM81**

[54] **MAIS AUTOGAME 1PQRM81**

[72] SCHAEFER, CHRISTOPHER  
MICHAEL, US

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

[86] (3166042)

[87] (3166042)

[22] 2022-06-29

[30] US (17/366,092) 2021-07-02

[11] **3,166,058**

[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 1PEEA63**

[54] **MAIS AUTOGAME 1PEEA63**

[72] GROTE, EDWIN MICHAEL, US

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

[86] (3166058)

[87] (3166058)

[22] 2022-06-29

[30] US (17/366,104) 2021-07-02

[11] **3,166,939**

[13] C

[51] **Int.Cl. C25D 5/48 (2006.01) C25D 5/50 (2006.01) C25D 7/06 (2006.01) C25D 11/00 (2006.01) C25D 11/34 (2006.01)**

[25] EN

[54] **METHOD FOR PASSIVATING A TINPLATE STRIP AND APPARATUS FOR PRODUCING SAID PASSIVATED TINPLATE STRIP**

[54] **PROCEDE DE PASSIVATION D'UNE BANDE DE TOLE D'ETAIN ET APPAREIL DE FABRICATION DE LADITE BANDE DE TOLE D'ETAIN PASSIVEE**

[72] STEEGH, MICHIEL, NL

[72] PENNING, JAN PAUL, NL

[72] LITZ, MARK WILLEM, NL

[73] TATA STEEL IJMUIDEN B.V., NL

[85] 2022-08-03

[86] 2021-03-15 (PCT/EP2021/056440)

[87] (WO2021/180980)

[30] EP (20163185.0) 2020-03-13

[30] EP (20164228.7) 2020-03-19

[30] EP (20168114.5) 2020-04-04

[11] **3,166,943**

[13] C

[51] **Int.Cl. H05B 45/40 (2020.01) F21K 9/00 (2016.01) H05B 45/37 (2020.01) F21V 23/00 (2015.01)**

[25] EN

[54] **LUMINAIRE WITH LONG CHAINS OF LOW POWER LEDS AND MULTIPLE ON-BOARD LED DRIVERS**

[54] **LUMINAIRE A CHAINES LONGUES DE DIODES ELECTROLUMINESCENTES DE FAIBLE PUISSANCE ET PLUSIEURS PILOTES DE DIODE ELECTROLUMINESCENTE EMBARQUES**

[72] SCHUBERT, TRAVIS MEYERS, US

[72] HUTCHENS, DANIEL, US

[72] WRIGHT, TRAVIS MONTGOMERY,  
US

[72] BOYER, JOHN D., US

[73] LSI INDUSTRIES, INC., US

[86] (3166943)

[87] (3166943)

[22] 2015-06-22

[62] 2,895,101

[30] US (14/480,434) 2014-09-08

[11] **3,167,138**

[13] C

[51] **Int.Cl. B62D 29/04 (2006.01) B29C 70/32 (2006.01) B61D 17/00 (2006.01)**

[25] EN

[54] **COMPOSITE MATERIAL VEHICLE BODY AND COMPOSITE MATERIAL LAYING STRUCTURE AND LAYING METHOD**

[54] **CORPS DE VEHICULE EN MATERIAU COMPOSITE, STRUCTURE DE POSE DE MATERIAU COMPOSITE ET PROCEDE DE POSE**

[72] DING, SANSAN, CN

[72] XIAO, PENG, CN

[72] GAO, YULONG, CN

[72] ZHAO, HONGWEI, CN

[72] WU, PEIPEI, CN

[73] CRRQ QINGDAO SIFANG CO., LTD.,  
CN

[85] 2022-06-28

[86] 2020-05-14 (PCT/CN2020/090174)

[87] (WO2021/135034)

[30] CN (202010001475.8) 2020-01-02

[11] **3,168,066**

[13] C

[51] **Int.Cl. C02F 3/00 (2006.01) C02F 1/00 (2006.01) C02F 3/28 (2006.01)**

[25] EN

[54] **ASYMMETRIC LEACHING CHAMBER FOR ONSITE WASTEWATER MANAGEMENT SYSTEM**

[54] **CHAMBRE DE LIXIVIATION ASYMETRIQUE POUR UN SYSTEME DE GESTION DES EAUX USEES SUR PLACE**

[72] DOUGLASS, BRIAN L., US

[73] PRINSCO, INC., US

[86] (3168066)

[87] (3168066)

[22] 2022-07-18

[30] US (63/223,230) 2021-07-19

[30] US (63/310,771) 2022-02-16

[30] US (17/812,621) 2022-07-14

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[11] **3,169,985**  
[13] C  
[51] **Int.Cl. E21B 43/267 (2006.01) E21B 43/26 (2006.01) E21B 43/30 (2006.01)**  
[25] EN  
[54] **PROCESS FOR DEVELOPING FRACTURE NETWORK AND HYDROCARBON RECOVERY METHOD**  
[54] **PROCEDE DE DEVELOPPEMENT D'UN RESEAU DE FRACTURES ET METHODE DE RECUPERATION D'HYDROCARBURE**  
[72] GITTINS, SIMON, CA  
[72] BUZEA, RADU, CA  
[72] ELLIOTT, CHRISTOPHER, CA  
[73] CENOVUS ENERGY INC., CA  
[86] (3169985)  
[87] (3169985)  
[22] 2019-03-20  
[62] 3,108,149  
[30] US (62/669,239) 2018-05-09

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[11] **3,170,299**  
[13] C  
[51] **Int.Cl. A23L 3/26 (2006.01) A23K 30/00 (2016.01) A01C 1/02 (2006.01) A01C 1/08 (2006.01) A61L 2/12 (2006.01) B07B 13/11 (2006.01) B07C 5/00 (2006.01)**  
[25] EN  
[54] **APPARATUSES AND METHODS FOR PASTEURIZING AND/OR STERILIZING PARTICULATE MATERIAL AND CASSETTE**  
[54] **DISPOSITIFS ET PROCEDES DE PASTEURISATION ET/OU DE STERILISATION DE PRODUIT PARTICULAIRE ET CASSETTE**  
[72] HERSCHE, MARTIN, CH  
[72] MENESES, NICOLAS, CH  
[72] CURRIE, ALASDAIR, GB  
[72] SCHONENBERGER, NIKLAUS, CH  
[72] SCHEIWILLER, THOMAS, CH  
[73] BUHLER AG, CH  
[86] (3170299)  
[87] (3170299)  
[22] 2017-08-17  
[62] 3,036,921  
[30] EP (16185055.7) 2016-08-20

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[11] **3,170,711**  
[13] C  
[51] **Int.Cl. A23L 25/00 (2016.01) A23L 25/10 (2016.01)**  
[25] EN  
[54] **HIGH PROTEIN FOOD**  
[54] **ALIMENT A TENEUR ELEVEE EN PROTEINES**  
[72] DARLING, COLBY, US  
[72] DAVLIN, CATHERINE, US  
[72] ROSENE, SARA, US  
[72] WEATHERBY, NATASHA, US  
[73] GENERAL MILLS, INC., US  
[85] 2022-08-05  
[86] 2021-02-05 (PCT/US2021/016721)  
[87] (WO2021/158855)  
[30] US (62/971,634) 2020-02-07

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[11] **3,171,694**  
[13] C  
[51] **Int.Cl. A61K 35/14 (2015.01) A61P 19/04 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING ENHANCED ANTI-INFLAMMATORY/ANTI-CATABOLIC AGENTS FROM AUTOLOGOUS PHYSIOLOGICAL FLUID**  
[54] **METHODE DE PRODUCTION D'AGENTS ANTI-INFLAMMATOIRES/ANTICATABOLIQUES A PARTIR D'UN FLUIDE PHYSIOLOGIQUE AUTOLOGUE**  
[72] GALEA, ANTHONY, CA  
[72] BROKHMAN, IRINA, CA  
[73] ANTINOR LIMITED, CA  
[85] 2022-09-14  
[86] 2021-03-16 (PCT/CA2021/050351)  
[87] (WO2021/184116)  
[30] CA (3,076,046) 2020-03-17

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[11] **3,172,125**  
[13] C  
[51] **Int.Cl. B02C 13/18 (2006.01) B02C 13/14 (2006.01) B02C 13/26 (2006.01) B02C 13/28 (2006.01)**  
[25] EN  
[54] **ROTOR ASSEMBLY FOR A PULVERIZER AND PULVERIZER COMPRISING THE SAME**  
[54] **ENSEMBLE ROTOR POUR UN PULVERISATEUR, ET PULVERISATEUR COMPRENANT L'ENSEMBLE ROTOR**  
[72] ALDRIDGE, CLINT, US  
[72] MUELLER, CHRISTOPHER, CA  
[72] LUTOSLAWSKI, JAREK, CA  
[73] TORXX KINETIC PULVERIZER LIMITED, BM  
[85] 2022-09-16  
[86] 2022-02-10 (PCT/CA2022/050197)  
[87] (3172125)

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[11] **3,172,139**  
[13] C  
[51] **Int.Cl. H04W 40/32 (2009.01) H04W 12/06 (2021.01) H04W 84/18 (2009.01) H04W 76/10 (2018.01)**  
[25] EN  
[54] **MESH NETWORK COMMISSIONING**  
[54] **MISE EN SERVICE D'UN RESEAU MAILLE**  
[72] TURON, MARTIN A., US  
[72] ERICKSON, GRANT M., US  
[72] BOROSS, CHRISTOPHER A., US  
[72] LOGUE, JAY D., US  
[73] GOOGLE LLC, US  
[86] (3172139)  
[87] (3172139)  
[22] 2015-06-24  
[62] 3,074,353  
[30] US (62/016,450) 2014-06-24  
[30] US (62/063,135) 2014-10-13  
[30] US (62/115,601) 2015-02-12  
[30] US (62/141,853) 2015-04-02

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[11] **3,172,961**

[13] C

- [51] **Int.Cl. B09B 3/00 (2022.01) C22B 3/06 (2006.01) C22B 3/38 (2006.01) C22B 3/44 (2006.01) C22B 7/00 (2006.01) C22B 19/00 (2006.01) C22B 23/00 (2006.01) H01M 10/54 (2006.01)**
- [25] EN
- [54] **ALLOY TREATMENT METHOD**
- [54] **PROCEDE DE TRAITEMENT D'ALLIAGE**
- [72] KUDOU, KEIJI, JP
- [72] ASANO, SATOSHI, JP
- [72] HEGURI, SHIN-ICHI, JP
- [72] TAKENOUCI, HIROSHI, JP
- [72] SHOUJI, HIROFUMI, JP
- [72] MATSUOKA, ITSUMI, JP
- [72] SANJO, SHOTA, JP
- [72] MATSUGI, TAKUMI, JP
- [73] SUMITOMO METAL MINING CO., LTD., JP
- [85] 2022-09-22
- [86] 2021-03-11 (PCT/JP2021/009778)
- [87] (WO2021/193096)
- [30] JP (2020-051157) 2020-03-23

[11] **3,173,283**

[13] C

- [51] **Int.Cl. C25C 7/06 (2006.01) C25C 3/08 (2006.01)**
- [25] EN
- [54] **SYSTEM AND PROCESS FOR STARTING UP AN ELECTROLYTIC CELL**
- [54] **SYSTEME ET PROCEDE DE DEMARRAGE D'UNE CELLULE ELECTROLYTIQUE**
- [72] BARDET, BENOIT, FR
- [72] BECASSE, SEBASTIEN, FR
- [72] D'ASTOLFO, LEROY, US
- [72] FORS, JOHN, NO
- [72] NOIZET, ALAIN, FR
- [72] PETITJEAN, BRUNO, FR
- [73] ELYSIS LIMITED PARTNERSHIP, CA
- [85] 2022-09-26
- [86] 2021-04-30 (PCT/CA2021/050609)
- [87] (WO2021/232147)
- [30] US (63/018,680) 2020-05-01

[11] **3,174,956**

[13] C

- [51] **Int.Cl. H04L 9/32 (2006.01) H04W 88/16 (2009.01) E05F 15/70 (2015.01) E05F 15/77 (2015.01) G07C 9/20 (2020.01) H04L 67/50 (2022.01)**
- [25] EN
- [54] **REMOTE MONITORING AND CONTROL SYSTEM FOR A BARRIER OPERATOR**
- [54] **SYSTEME DE SURVEILLANCE ET DE COMMANDE A DISTANCE POUR UN OPERATEUR DE BARRIERE**
- [72] BAKER, GEOFF, AU
- [72] HAWKINS, RAY, AU
- [72] KELLY, SIMON, AU
- [73] AUTOMATIC TECHNOLOGY (AUSTRALIA) PTY LTD, AU
- [86] (3174956)
- [87] (3174956)
- [22] 2015-10-13
- [62] 2,963,667
- [30] AU (2014904091) 2014-10-13

[11] **3,175,198**

[13] C

- [51] **Int.Cl. G01S 13/74 (2006.01) G08B 21/02 (2006.01) H04W 4/021 (2018.01) G08B 21/24 (2006.01)**
- [25] EN
- [54] **COMPREHENSIVE SYSTEM AND METHOD OF UNIVERSAL REAL-TIME LINKING OF REAL OBJECTS TO A MACHINE, NETWORK, INTERNET, OR SOFTWARE SERVICE**
- [54] **SYSTEME ET PROCEDE EXHAUSTIFS DE LIAISON UNIVERSELLE EN TEMPS REEL D'OBJETS REELS A UNE MACHINE, A UN RESEAU, A L'INTERNET OU A UN SERVICE DE LOGICIEL**
- [72] H. KAZEROUNI, POOYA, CA
- [73] LINQUET TECHNOLOGIES, INC., CA
- [86] (3175198)
- [87] (3175198)
- [22] 2013-02-01
- [62] 3,087,000
- [30] US (61/608,429) 2012-03-08

[11] **3,176,366**

[13] C

- [51] **Int.Cl. F16L 9/14 (2006.01) F16L 25/10 (2006.01) F16L 58/10 (2006.01) F16L 59/14 (2006.01) F16L 59/147 (2006.01) F24F 13/02 (2006.01)**
- [25] EN
- [54] **VENTILATION CONDUIT**
- [54] **CONDUIT DE VENTILATION**
- [72] FOREST, PHILIPPE, CA
- [72] LAVOIE RONDEAU, PIER-FELIX, CA
- [73] 9415-2667 QUEBEC INC., CA
- [85] 2022-10-20
- [86] 2022-02-21 (PCT/CA2022/050247)
- [87] (WO2022/174357)
- [30] US (63/151,311) 2021-02-19

[11] **3,176,696**

[13] C

- [51] **Int.Cl. G01N 35/04 (2006.01)**
- [25] EN
- [54] **RECEPTACLE TRANSPORT SYSTEM FOR AN ANALYTICAL SYSTEM**
- [54] **SYSTEME DE TRANSPORT DE RECEPTACLE POUR SYSTEME ANALYTIQUE**
- [72] SILBERT, ROLF, US
- [72] PENG, HONGRAN, US
- [72] BUSE, DAVID AARON, US
- [72] COMBS, DAVID H., US
- [73] GEN-PROBE INCORPORATED, US
- [86] (3176696)
- [87] (3176696)
- [22] 2020-04-29
- [62] 3,137,749
- [30] US (62/842,585) 2019-05-03
- [30] US (62/951,019) 2019-12-20

[11] **3,177,395**

[13] C

- [51] **Int.Cl. H04L 12/10 (2006.01) H04L 12/413 (2006.01)**
- [25] FR
- [54] **MANAGEMENT OF ELECTRICAL POWER SUPPLY VIA ETHERNET CABLE**
- [54] **GESTION DE L'ALIMENTATION ELECTRIQUE PAR CABLE ETHERNET**
- [72] LALLEMAND, XAVIER, BE
- [72] HEMERIJCK, OLIVIER, BE
- [73] ECOGREEN SOFT SPRL, BE
- [85] 2022-10-31
- [86] 2021-05-06 (PCT/EP2021/061952)
- [87] (WO2021/224371)
- [30] BE (BE2020/5306) 2020-05-07

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[11] **3,179,582**  
[13] C

[51] **Int.Cl. C07K 16/28 (2006.01) A61K 47/68 (2017.01)**  
[25] EN  
[54] **MODIFIED IMMUNOGLOBULIN FC REGIONS**  
[54] **REGIONS FC D'IMUNOGLOBULINE MODIFIEE**  
[72] HALE, GEOFFREY, GB  
[72] WILKINSON, IAN, GB  
[73] MABSOLVE LIMITED, GB  
[85] 2022-11-21  
[86] 2021-05-20 (PCT/GB2021/051233)  
[87] (WO2021/234402)  
[30] GB (2007613.9) 2020-05-21

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[11] **3,180,695**  
[13] C

[51] **Int.Cl. H01R 4/66 (2006.01) E02D 31/00 (2006.01) H01R 4/02 (2006.01)**  
[25] EN  
[54] **EARTH GROUNDING ELECTRODE AND INSTALLATION THEREOF**  
[54] **ELECTRODE DE TERRE ET INSTALLATION**  
[72] BROERE, HANS, CA  
[73] A.C. DANDY PRODUCTS LTD., CA  
[86] (3180695)  
[87] (3180695)  
[22] 2022-10-28

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[11] **3,182,396**  
[13] C

[51] **Int.Cl. G01N 33/24 (2006.01) G01N 35/00 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS**  
[54] **SYSTEME D'ECHANTILLONNAGE AGRICOLE ET 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] (3182396)  
[87] (3182396)  
[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

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[11] **3,182,515**  
[13] C

[51] **Int.Cl. G01N 1/28 (2006.01) G01F 22/02 (2006.01) G01G 3/16 (2006.01) G01G 17/06 (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] LEVY, KENT, US  
[72] O'NEALL, MATTHEW, US  
[72] HARMAN, REID, US  
[72] SCHAEFER, TIMOTHY, US  
[72] VACCARI, ADAM, US  
[73] PRECISION PLANTING LLC, US  
[86] (3182515)  
[87] (3182515)  
[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

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[11] **3,182,722**  
[13] C

[51] **Int.Cl. B65D 75/32 (2006.01) B65D 77/20 (2006.01)**  
[25] EN  
[54] **CONTACT LENS PACKAGES AND METHODS OF USE**  
[54] **PLAQUETTES DE LENTILLE DE CONTACT ET PROCEDES D'UTILISATION**  
[72] ELLIS, MATTHEW JOHN, GB  
[72] NOYCE, TIMOTHY, GB  
[72] SLUKA, DMITRIJUS, GB  
[73] COOPERVISION INTERNATIONAL LIMITED, GB  
[85] 2022-12-14  
[86] 2021-06-18 (PCT/GB2021/051560)  
[87] (WO2021/260353)  
[30] US (63/042,575) 2020-06-23



**Brevets canadiens délivrés  
11 juin 2024**

[11] **3,182,853**

[13] C

[51] **Int.Cl. E05D 5/02 (2006.01) E05D 5/06 (2006.01) E05D 5/12 (2006.01) E05D 5/14 (2006.01) E05D 7/10 (2006.01) E05D 11/10 (2006.01)**

[25] EN

[54] **AUTOMOTIVE LIFT-OFF HINGE WITH INTEGRATED DOOR CHECK**

[54] **CHARNIERE D'ARRET D'AUTOMOBILE POURVUE D'UN CONTROLE DE PORTE INTEGRE**

[72] KOVACH, CHRISTOPHER ROBERT, CA

[73] MULTIMATIC INC., CA

[85] 2022-12-14

[86] 2021-06-17 (PCT/US2021/037817)

[87] (WO2021/257821)

[30] US (63/040,139) 2020-06-17

[11] **3,184,361**

[13] C

[51] **Int.Cl. B03D 1/08 (2006.01)**

[25] EN

[54] **SEPARATION OF WARM WATER FROM FROTH TAILINGS**

[54] **SEPARATION D'EAU TIEDE DE RESIDUS DE MOUSSE**

[72] YAZDI ZEHTAB, ALIREZA, CA

[72] CEBULA, SCOTT, CA

[72] COOK, CHARLES J., CA

[72] KOROLUK, DEVON C., CA

[72] ABEL, KEITH A., CA

[72] JHA, RAHUL, CA

[73] IMPERIAL OIL RESOURCES LIMITED, CA

[86] (3184361)

[87] (3184361)

[22] 2022-12-05

[11] **3,187,789**

[13] C

[51] **Int.Cl. G05D 1/43 (2024.01) B60W 30/095 (2012.01) B60W 60/00 (2020.01) B66F 9/075 (2006.01) G05D 1/228 (2024.01) G05D 1/246 (2024.01) G05D 1/622 (2024.01) G05D 1/639 (2024.01) G05D 1/648 (2024.01) G05D 1/672 (2024.01)**

[25] EN

[54] **MATERIALS HANDLING VEHICLE PATH VALIDATION AND DYNAMIC PATH MODIFICATION**

[54] **VALIDATION DE TRAJET ET MODIFICATION DE TRAJET DYNAMIQUE DE VEHICULE DE MANUTENTION DE MATERIAUX**

[72] THODE, JUSTIN F., NZ

[73] CROWN EQUIPMENT CORPORATION, US

[86] (3187789)

[87] (3187789)

[22] 2017-08-25

[62] 3,035,116

[30] US (62/380,060) 2016-08-26

[30] US (62/380,089) 2016-08-26

[11] **3,189,956**

[13] C

[51] **Int.Cl. F17C 13/06 (2006.01) A01N 1/00 (2006.01) A01N 1/02 (2006.01) B65D 51/24 (2006.01)**

[25] EN

[54] **CANISTER CAPS FOR CRYOPRESERVATION APPLICATIONS**

[54] **CAPUCHONS DE RECIPIENT POUR DES APPLICATIONS DE CRYOCONSERVATION**

[72] BADALYAN, NICOLE, US

[72] LORD, KEVIN, US

[72] ZORETIC, SYDNEY, US

[72] TANTILLO, CLAIRE, US

[73] COOPERSURGICAL, INC., US

[85] 2023-01-23

[86] 2021-07-22 (PCT/US2021/042814)

[87] (WO2022/020618)

[30] US (63/055,477) 2020-07-23

[11] **3,190,203**

[13] C

[51] **Int.Cl. D03D 15/513 (2021.01) A41D 31/08 (2019.01) D03D 15/47 (2021.01)**

[25] EN

[54] **FABRIC MATERIAL THAT IS RESISTANT TO MOLTEN METALS**

[54] **MATERIAU TEXTILE RESISTANT AUX METAUX FONDUS**

[72] SMITH, CEVIN BRENT, US

[72] DIANNI, WILLIAM J., US

[72] AUBREY, THOMAS F., US

[73] BURLINGTON INDUSTRIES LLC, US

[85] 2023-02-20

[86] 2021-08-17 (PCT/US2021/046239)

[87] (WO2022/040143)

[30] US (63/067,365) 2020-08-19

[30] US (63/144,618) 2021-02-02

[11] **3,192,075**

[13] C

[51] **Int.Cl. F24F 11/62 (2018.01) F24F 11/38 (2018.01) G06N 20/00 (2019.01) F24F 3/167 (2021.01) H04L 67/50 (2022.01) G08B 21/02 (2006.01)**

[25] EN

[54] **SYSTEM, METHOD AND/OR COMPUTER READABLE MEDIUM FOR MONITORING AND PREDICTIVELY CONTROLLING CLOSED ENVIRONMENTS**

[54] **SYSTEME, PROCEDE ET/OU SUPPORT LISIBLE PAR ORDINATEUR POUR SURVEILLER ET COMMANDER DE MANIERE PREDICTIVE DES ENVIRONNEMENTS FERMES**

[72] SOLOMON, VERNON, CA

[72] STYLES, AARON, CA

[72] TYPA, ADRIAN, CA

[72] CURRY, FORREST C., CA

[72] WHITE, JOHN R., CA

[72] ADAMS, CHRIS, CA

[72] BOWLES, JEFFREY R., CA

[72] BOWLES, ADAM, CA

[73] ESC INNOVATES INC., CA

[85] 2023-03-08

[86] 2022-08-23 (PCT/CA2022/051272)

[87] (WO2023/023850)

[30] US (63/235,973) 2021-08-23

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June 11, 2024**

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[11] **3,197,438**  
[13] C

[51] **Int.Cl. H05H 1/52 (2006.01) H05H 1/06 (2006.01)**  
[25] EN  
[54] **DENSE PLASMA FOCUS APPARATUS**  
[54] **APPAREIL A FOYERS DE PLASMA DENSE**  
[72] GABER, HOSSAM, CA  
[72] DAMIDEH, VAHID, CA  
[72] LEE, SING, CA  
[73] HANDA, JANAK H., CA  
[73] GABER, HOSSAM, CA  
[86] (3197438)  
[87] (3197438)  
[22] 2023-04-18  
[30] US (17/723170) 2022-04-18

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[11] **3,199,723**  
[13] C

[51] **Int.Cl. H02K 41/03 (2006.01)**  
[25] EN  
[54] **METHOD FOR CONTROLLING A PLANAR DRIVE SYSTEM, AND PLANAR DRIVE SYSTEM**  
[54] **PROCEDE DE COMMANDE D'UN SYSTEME D'ENTRAINEMENT PLAN ET SYSTEME D'ENTRAINEMENT PLAN**  
[72] STOCKEM, IRINA, DE  
[72] BALZER, VIKTOR, DE  
[72] MAGUIRE, KEIR, CA  
[72] ZHANG, XIAODONG, CA  
[73] BECKHOFF AUTOMATION GMBH, DE  
[85] 2023-05-19  
[86] 2021-11-18 (PCT/EP2021/082169)  
[87] (WO2022/106555)  
[30] DE (10 2020 130 795.0) 2020-11-20

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[11] **3,200,242**  
[13] C

[51] **Int.Cl. B30B 9/30 (2006.01)**  
[25] EN  
[54] **BALER AND METHOD FOR OPERATING THE BALER**  
[54] **PRESSE A BALLE ET METHODE D'EXPLOITATION**  
[72] BIRKEMEYER, RALF, DE  
[72] VOGT, JAN, DE  
[73] SIB STRAUTMANN INGENIEURBURO GMBH, DE  
[85] 2023-05-25  
[86] 2021-12-15 (PCT/EP2021/085906)  
[87] (WO2022/129177)  
[30] DE (10 2020 133 711.6) 2020-12-16

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[11] **3,200,658**  
[13] C

[51] **Int.Cl. A61N 1/04 (2006.01) A61N 1/36 (2006.01) A61N 1/362 (2006.01)**  
[25] EN  
[54] **A STIMULATION SYSTEM INCLUDING A MULTI-ELECTRODE EAR SHELL AND METHOD OF USING THE SAME**  
[54] **SYSTEME DE STIMULATION COMPRENANT UNE OREILLETTE A ELECTRODES MULTIPLES ET PROCEDE D'UTILISATION D'UN TEL SYSTEME**  
[72] KLEIN, VALMA, US  
[73] THE ALFRED E. MANN FOUNDATION FOR SCIENTIFIC RESEARCH, US  
[85] 2023-05-03  
[86] 2021-08-24 (PCT/US2021/047392)  
[87] (WO2022/103466)  
[30] US (63/112,081) 2020-11-10

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[11] **3,201,428**  
[13] C

[51] **Int.Cl. A22B 5/00 (2006.01) A22B 5/20 (2006.01)**  
[25] EN  
[54] **TAIL CUTTER FOR SAVING AND PARTLY CUTTING FREE TAILS OF SLAUGHTERED ANIMALS**  
[54] **DECOUPER-QUEUE POUR RECUPERER ET DETACHER PARTIELLEMENT DES QUEUES LIBRES D'ANIMAUX ABATTUS**  
[72] GOLDEWIJK, RICHARD ANTONIUS MARIA KLEIN, NL  
[72] HUININK, MAARTEN CHRISTIAAN, NL  
[73] MAREL RED MEAT B.V., NL  
[85] 2023-05-10  
[86] 2021-12-17 (PCT/EP2021/086369)  
[87] (WO2022/129452)  
[30] EP (20215267.4) 2020-12-18

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[11] **3,204,992**  
[13] C

[51] **Int.Cl. B02C 19/00 (2006.01) B02C 19/18 (2006.01) C22B 1/00 (2006.01)**  
[25] EN  
[54] **TRANSCRITICAL CO2 PULVERIZATION**  
[54] **PULVERISATION DE CO2 TRANSCRITIQUE**  
[72] EDWARDS, CLIFFORD, CA  
[72] VON BEHRENS, PETER, CA  
[72] STEPHENS, ROB, CA  
[73] ROCKBURST TECHNOLOGIES INC., CA  
[86] (3204992)  
[87] (3204992)  
[22] 2021-10-06  
[62] 3,196,193  
[30] US (63/088,273) 2020-10-06

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[11] **3,210,862**  
[13] C

[51] **Int.Cl. C07K 5/062 (2006.01) A61K 45/06 (2006.01) A61K 51/08 (2006.01) C07K 1/06 (2006.01) C07K 1/107 (2006.01) C07K 1/13 (2006.01) C07K 7/02 (2006.01)**  
[25] EN  
[54] **COMPOUND TARGETING PROSTATE SPECIFIC MEMBRANE ANTIGEN, AND PREPARATION METHOD AND APPLICATION THEREOF**  
[54] **COMPOSE CIBLANT UN ANTIGENE DE MEMBRANE SPECIFIQUE A LA PROSTATE ET METHODE DE PREPARATION ET APPLICATION CONNEXES**  
[72] CHEN, XIAOYUAN, CN  
[72] XU, PENGFEI, CN  
[73] YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD., CN  
[85] 2023-09-01  
[86] 2022-02-27 (PCT/CN2022/078129)  
[87] (WO2022/183993)  
[30] CN (202110225558.X) 2021-03-01

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[11] **3,212,377**

[13] C

- [51] **Int.Cl. F24C 7/08 (2006.01) F21S 10/04 (2006.01) F24C 7/00 (2006.01) F24D 15/00 (2022.01) F24D 19/10 (2006.01) G09G 5/36 (2006.01) H04N 5/44 (2011.01)**
- [25] EN
- [54] **FAUX FIREPLACE WITH VARIABLE FLAME SPEED**
- [54] **FOYER ELECTRIQUE A VITESSE DE FLAMME VARIABLE**
- [72] NOLTON, JIM, US
- [72] RICHARDSON, KRIS, US
- [72] AGUIRRE, HARLAND, US
- [72] FASZER, DAVID, US
- [73] MODERN FLAMES, LLC, US
- [86] (3212377)
- [87] (3212377)
- [22] 2023-09-13
- [30] US (17/968,380) 2022-10-18

[11] **3,218,361**

[13] C

- [51] **Int.Cl. C07C 403/24 (2006.01) A61P 9/00 (2006.01)**
- [25] EN
- [54] **AMAROUCIAXANTHIN A ESTERS AND USES THEREOF**
- [54] **ESTERS D'AMAROUCIAXANTHINE A ET LEURS UTILISATIONS**
- [72] GARCIA-DELGADO BANCHS, NOEMI, ES
- [72] RUIZ CANOVAS, EUGENIA, ES
- [72] MERCADE ROCA, JAUME, ES
- [73] GAT THERAPEUTICS, S.L., ES
- [85] 2023-10-27
- [86] 2022-07-18 (PCT/EP2022/070001)
- [87] (WO2023/285703)
- [30] EP (21382644.9) 2021-07-16

[11] **3,217,077**

[13] C

- [51] **Int.Cl. E21D 5/11 (2006.01)**
- [25] EN
- [54] **SINGLE-LAYER SHAFT LINING WITH JOINT SEALING STRUCTURE AND GROUTING SYSTEM AND ITS CONSTRUCTION METHOD**
- [54] **PAROI DE Puits MONOCOUCHE AYANT UNE STRUCTURE D'ARRET D'EAU ASSEMBLEE ET SYSTEME D'INJECTION DE COULIS, ET SON PROCEDE DE CONSTRUCTION**
- [72] YANG, ZHIJIANG, CN
- [72] YANG, WEIHAO, CN
- [72] HAN, TAO, CN
- [72] ZHANG, CHI, CN
- [72] ZHANG, TAO, CN
- [72] LUO, TINGTING, CN
- [72] ZHANG, YU, CN
- [72] HUANG, JIAHUI, CN
- [72] DING, YING, CN
- [72] LIU, TAO, CN
- [73] CHINA UNIVERSITY OF MINING AND TECHNOLOGY, CN
- [85] 2023-10-27
- [86] 2023-04-13 (PCT/CN2023/088007)
- [87] (WO2023/202455)
- [30] CN (202210405334.1) 2022-04-18

# Canadian Applications Open to Public Inspection

May 26, 2024 to June 1, 2024

## Demandes canadiennes mises à la disponibilité du public

26 mai 2024 au 1 juin 2024

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[21] **3,182,832**  
[13] A1  
[51] **Int.Cl. H01M 8/2475 (2016.01) H01M 8/04276 (2016.01) H01M 8/18 (2006.01)**  
[25] EN  
[54] **A UNIVERSAL FRAME FOR A REDOX FLOW BATTERY STACK**  
[54] **CHASSIS UNIVERSEL POUR UN ASSEMBLAGE DE BATTERIES REDOX**  
[72] AHMADIMOGHADDAM, HAMIDREZA, CA  
[72] SATPUTE, VIVEK, IN  
[71] AHMADIMOGHADDAM, HAMIDREZA, CA  
[71] SATPUTE, VIVEK, IN  
[22] 2022-11-29  
[41] 2024-05-29

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[21] **3,182,989**  
[13] A1  
[51] **Int.Cl. G01P 5/24 (2006.01) G01H 9/00 (2006.01) G08B 13/16 (2006.01) G08B 29/18 (2006.01) G01H 17/00 (2006.01)**  
[25] EN  
[54] **WIND DETECTION METHOD AND SYSTEM**  
[54] **METHODE ET SYSTEME DE DETECTION DU VENT**  
[72] JALILIAN, SEYED EHSAN, CA  
[72] LIU, YUHONG, CA  
[71] HIFI ENGINEERING INC., CA  
[22] 2022-12-01  
[41] 2024-06-01

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[21] **3,183,009**  
[13] A1  
[51] **Int.Cl. B60P 3/33 (2006.01) E04H 1/12 (2006.01) E04H 15/06 (2006.01) A01K 97/01 (2006.01)**  
[25] EN  
[54] **PORTABLE MULTI-HINGED SHELTER**  
[54] **ABRI PORTATIF A CHARNIERES MULTIPLES**  
[72] GIRARD, MARK TIMOTHY, US  
[71] GIRARD, MARK TIMOTHY, US  
[22] 2022-12-01  
[41] 2024-06-01

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[21] **3,183,048**  
[13] A1  
[51] **Int.Cl. G06Q 40/04 (2012.01) G06F 16/27 (2019.01)**  
[25] EN  
[54] **SYSTEMS, DEVICES, AND METHODS FOR A DECENTRALIZED FINANCE PLATFORM FOR DIGITAL TOKENS**  
[54] **SYSTEMES, DISPOSITIFS ET METHODES POUR UNE PLATEFORME FINANCIERE DECENTRALISEE DE JETONS NUMERIQUES**  
[72] SOLANO, SERGIO SAMIR, CO  
[72] KONJEVIC, DANIEL DRAGAN, CA  
[71] SOLANO, SERGIO SAMIR, CO  
[71] KONJEVIC, DANIEL DRAGAN, CA  
[22] 2022-12-01  
[41] 2024-06-01

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[21] **3,183,103**  
[13] A1  
[51] **Int.Cl. E02F 3/815 (2006.01) E01H 5/06 (2006.01) E02F 3/76 (2006.01)**  
[25] EN  
[54] **HANDLING APPARATUS FOR GRADER SNOW WING ATTACHMENT**  
[54] **APPAREIL DE MANIPULATION POUR UN ACCESSOIRE D-AILE CHASSE-NEIGE A NIVELER**  
[72] FEDIRKO, RICHARD ALLEN, CA  
[71] FEDIRKO, RICHARD ALLEN, CA  
[22] 2022-11-30  
[41] 2024-05-30

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[21] **3,183,263**  
[13] A1  
[51] **Int.Cl. B60P 7/14 (2006.01) B60P 3/04 (2006.01)**  
[25] EN  
[54] **RACK AND PINION ROLLER GATE SYSTEM FOR A LIVESTOCK TRANSPORTATION VEHICLE, AND METHOD OF OPERATION THEREOF**  
[54] **SYSTEME DE PORTE ROULANTE SUR PIGNON ET CREMAILLERE POUR UN VEHICULE DE TRANSPORT DE BETAIL ET METHODE D-EXPLOITATION CONNEXE**  
[72] PLAZEK, BRETT, US  
[72] LARSON, AARON, US  
[72] PETERSON, DAVID, US  
[71] WILSON TRAILER COMPANY, US  
[22] 2022-11-30  
[41] 2024-05-30

**Demandes canadiennes mises à la disponibilité du public**  
**26 mai 2024 au 1 juin 2024**

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[21] **3,183,267**  
[13] A1

[51] **Int.Cl. B03D 1/14 (2006.01)**  
[25] EN  
[54] **SEPARATION APPARATUS, SYSTEM AND METHOD OF USE**  
[54] **APPAREIL DE SEPARATION, SYSTEME ET METHODE D~UTILISATION**  
[72] DAVIS, ROSS, US  
[71] DAVIS, ROSS, US  
[22] 2022-12-01  
[41] 2024-06-01

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[21] **3,183,288**  
[13] A1

[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 40/02 (2023.01) G06Q 50/08 (2012.01) G06Q 10/105 (2023.01) G06K 19/06 (2006.01)**  
[25] EN  
[54] **DIGITAL PERSONAL EMPLOYMENT WALLET**  
[54] **PORTE-FEUILLE D~EMPLOI PERSONNEL NUMERIQUE**  
[72] MCQUEEN, DILLON, CA  
[71] MCQUEEN, DILLON, CA  
[22] 2022-11-30  
[41] 2024-05-30

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[21] **3,183,308**  
[13] A1

[51] **Int.Cl. B60R 9/00 (2006.01) B60P 7/08 (2006.01)**  
[25] EN  
[54] **STRAP ANCHOR FOR SECURING AN ACCESSORY TO A VEHICLE USING A STRAP AND METHOD THEREFOR**  
[54] **ANCRAGE DE COURROIE POUR FIXER UN ACCESSOIRE SUR UN VEHICULE AU MOYEN D~UNE COURROIE ET METHODE CONNEXE**  
[72] VACHON, MARC, CA  
[72] BITSCH, MAGALI, CA  
[72] ROBILLARD, PIERRE-LUC, CA  
[72] BALDACHINO, SIMON, CA  
[72] GUENDOUL, NABIL, CA  
[72] BOURASSA, MICHEL, CA  
[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA  
[22] 2022-11-30  
[41] 2024-05-30

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[21] **3,183,347**  
[13] A1

[51] **Int.Cl. E04G 21/14 (2006.01) E04F 13/07 (2006.01) E04F 15/02 (2006.01) E04F 21/18 (2006.01)**  
[25] EN  
[54] **TILE PANEL ASSEMBLY AND METHOD OF MANUFACTURE**  
[54] **PANNEAU A CARREAUX ET METHODE DE FABRICATION**  
[72] ZEMORA, DANIEL, CA  
[72] ZEMORA, JONATHAN, CA  
[72] ZEMORA, NICOLAE, CA  
[72] BERBEC, CORNELIUS, CA  
[71] ZEMORA, DANIEL, CA  
[71] ZEMORA, JONATHAN, CA  
[71] ZEMORA, NICOLAE, CA  
[71] BERBEC, CORNELIUS, CA  
[22] 2022-12-05  
[41] 2024-06-01  
[30] US (18/060,620) 2022-12-01

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[21] **3,183,356**  
[13] A1

[51] **Int.Cl. A61K 8/92 (2006.01) A61K 8/02 (2006.01) A61K 8/19 (2006.01) A61K 8/365 (2006.01) A61K 8/49 (2006.01) A61K 8/73 (2006.01) A61Q 19/08 (2006.01)**  
[25] EN  
[54] **COSMETIC SACHET FOR REDUCING AGE-RELATED SYMPTOMS IN HUMAN SKIN**  
[54] **SACHET DE BEAUTE POUR REDUIRE LES SYMPTOMES DE PEAU HUMAINE LIES A L~AGE**  
[72] QUAKENBUSH, SUSAN, CA  
[72] LOMAS, KEN, CA  
[71] BLOO PHARMAPEUTICA INC., CA  
[22] 2022-11-28  
[41] 2024-05-28

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[21] **3,183,496**  
[13] A1

[51] **Int.Cl. B62D 55/30 (2006.01) B62D 55/08 (2006.01) B62D 55/24 (2006.01)**  
[25] EN  
[54] **TRACK ASSEMBLY**  
[54] **ASSEMBLAGE DE CHENILLE**  
[72] FRANCK, RANDALL F., US  
[72] OSTERHOLT, KEVIN, US  
[71] LOC PERFORMANCE PRODUCTS, LLC, US  
[22] 2022-12-06  
[41] 2024-05-29  
[30] US (18/070,901) 2022-11-29

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[21] **3,183,798**  
[13] A1

[51] **Int.Cl. A47C 21/00 (2006.01) A47G 9/10 (2006.01)**  
[25] EN  
[54] **PILLOW SUPPORT**  
[54] **SUPPORT D~OREILLER**  
[72] SUMMERS, NEIL, GB  
[71] ENANEF LIMITED, GB  
[22] 2022-12-01  
[41] 2024-06-01

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[21] **3,185,859**  
[13] A1

[51] **Int.Cl. A01G 9/20 (2006.01) F21K 9/00 (2016.01) H05B 45/10 (2020.01) H05B 45/20 (2020.01) A01G 9/24 (2006.01)**  
[25] EN  
[54] **DEVICE AND METHOD FOR ILLUMINATING AND GROWING TOMATO PLANTS IN CONFINED SPACES WITHOUT NATURAL LIGHT AND IN GREENHOUSE CONDITIONS**  
[54] **DISPOSITIF ET METHODE POUR ECLAIRER ET CULTIVER DES PLANTS DE TOMATES DANS DES ESPACES CLOS SANS LUMIERE NATURELLE ET EN CONDITIONS DE SERRE**  
[72] DOBRYNIN, KRZYSZTOF, PL  
[72] KRAIN, MATEUSZ, PL  
[71] BILBERRY SP. Z O.O., PL  
[22] 2022-12-14  
[41] 2024-06-01  
[30] PL (P.443016) 2022-12-01

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[21] **3,187,880**  
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A61K 9/20 (2006.01) A61K 9/48 (2006.01) A61K 9/72 (2006.01) A61K 31/05 (2006.01) A61K 31/352 (2006.01) A61K 31/465 (2006.01) A61K 36/81 (2006.01)**

[25] EN

[54] **INDIVIDUAL DOSING OF CANNABIS AND TOBACCO FOR STANDARDIZATION AND CONTROL**

[54] **DOSAGE INDIVIDUEL DE CANNABIS ET DE TABAC AUX FINS DE NORMALISATION ET DE CONTROLE**

[72] MCCOY, DAVID, US  
[71] MCCOY, DAVID, US  
[22] 2023-01-27  
[41] 2024-06-01  
[30] US (18/072,744) 2022-12-01

[21] **3,195,698**  
[13] A1

[51] **Int.Cl. E04F 13/072 (2006.01) B44C 1/18 (2006.01) B44C 5/06 (2006.01) B44F 9/02 (2006.01)**

[25] EN

[54] **PRECISE FAUX WOOD REPRODUCTION SYSTEM AND METHOD**

[54] **SYSTEME ET METHODE DE REPRODUCTION PRECISE EN SIMILIBOIS**

[72] WILLIAMSON, TRAVIS EDWARD, US  
[71] WILLIAMSON, TRAVIS EDWARD, US  
[22] 2023-04-11  
[41] 2024-06-01  
[30] US (18/060,712) 2022-12-01

[21] **3,203,999**  
[13] A1

[51] **Int.Cl. E05D 13/00 (2006.01) E06B 3/42 (2006.01) F16H 55/36 (2006.01)**

[25] EN

[54] **PULLEY MOUNTING STRUCTURE, SLIDE DOOR AND SHOWER ROOM**

[54] **STRUCTURE DE MONTAGE DE POULIE, PORTE COULISSANTE ET SALLE DE DOUCHE**

[72] LIN, XIAOFA, CN  
[72] LIN, XIAOSHAN, CN  
[72] DENG, XIAOQING, CN  
[72] YANG, SHENGDE, CN  
[72] LIU, QIQIAO, CN  
[71] FUJIAN XIHE SANITARY WARE TECHNOLOGY CO., LTD, CN  
[22] 2023-06-19  
[41] 2024-06-01  
[30] CN (202211536502.7) 2022-12-01

[21] **3,204,310**  
[13] A1

[51] **Int.Cl. C12Q 1/6809 (2018.01) C12Q 1/6876 (2018.01) G16B 20/00 (2019.01) G16B 25/10 (2019.01) C12Q 1/04 (2006.01)**

[25] EN

[54] **CRITICAL QUALITY ATTRIBUTES FOR IDENTIFYING MESENCHYMAL STROMAL CELLS WITH IMMUNOMODULATORY AND ANGIOGENIC FITNESS**

[54] **ATTRIBUTS DE QUALITE CRITIQUES POUR DETERMINER LA CAPACITE IMMUNOMODULATRICE ET ANGIOGENIQUE DES CELLULES STROMALES MESENCHYMATEUSES**

[72] ROBB, KEVIN, CA  
[72] VISWANATHAN, SOWMYA, CA  
[71] UNIVERSITY HEALTH NETWORK, CA  
[22] 2023-06-15  
[41] 2024-05-29  
[30] US (63/428,499) 2022-11-29

[21] **3,208,253**  
[13] A1

[51] **Int.Cl. G06F 3/04847 (2022.01) G06F 3/04842 (2022.01)**

[25] EN

[54] **USER INTERFACE CONTROL**

[54] **COMMANDE D'INTERFACE UTILISATEUR**

[72] POIRIER, ERIC JEAN, CA  
[72] TRUDEAU, MAUDE, CA  
[72] ABDULLAH, OMAS, CA  
[72] BOSSIER, CHRISTOPHER, CA  
[71] SHOPIFY INC., CA  
[22] 2023-08-03  
[41] 2024-05-28  
[30] US (18/059,134) 2022-11-28

[21] **3,208,858**  
[13] A1

[51] **Int.Cl. G06F 16/901 (2019.01) G06N 20/00 (2019.01) G06Q 30/0201 (2023.01)**

[25] EN

[54] **DATASET RANKING BASED ON COMPOSITE SCORE**

[54] **CLASSEMENT D-ENSEMBLE DE DONNEES EN FONCTION D-UNE COTE GLOBALE**

[72] KUMAR, SRICHARAN KALLUR PALLI, US  
[72] SRIVASTAVA, ASHOK N., US  
[72] BAKER, TRISTAN COOPER, US  
[72] AMIT, ALON, US  
[71] INTUIT INC., US  
[22] 2023-08-10  
[41] 2024-05-30  
[30] US (18/072,697) 2022-11-30

[21] **3,211,873**  
[13] A1

[51] **Int.Cl. B62D 21/15 (2006.01) B62D 21/02 (2006.01) B62D 25/20 (2006.01)**

[25] EN

[54] **SIDE IMPACT GUARD FOR TRAILERS**

[54] **AMORTISSEUR LATERAL POUR REMORQUES**

[72] JAWORKSKI, LESZEK STEFAN, US  
[72] ROSALES, OSCAR E. MONTIEL, US  
[71] HYUNDAI TRANSLEAD, US  
[22] 2023-09-11  
[41] 2024-05-30  
[30] US (18/071,996) 2022-11-30

**Demandes canadiennes mises à la disponibilité du public**  
**26 mai 2024 au 1 juin 2024**

[21] **3,212,133**  
[13] A1

[51] **Int.Cl. F02B 37/02 (2006.01) B64D 33/00 (2006.01) F02B 37/22 (2006.01)**  
[25] EN  
[54] **AIRCRAFT ENGINE WITH EXHAUST HAVING REMOVABLE DEFLECTOR**  
[54] **MOTEUR D'AERONEF COMPRENANT UN ECHAPPEMENT A DEFLECTEUR AMOVIBLE**  
[72] LEFEBVRE, GUY, CA  
[72] GOVER, CHRISTOPHER, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2023-09-12  
[41] 2024-06-01  
[30] US (18/060,659) 2022-12-01

[21] **3,213,544**  
[13] A1

[51] **Int.Cl. B25B 13/06 (2006.01) B25B 13/48 (2006.01) B25B 23/10 (2006.01)**  
[25] EN  
[54] **SOCKET ASSEMBLY FOR ENGAGING A NUT**  
[54] **OUTIL A DOUILLE POUR ECROU**  
[72] VINSKI, JOHNNY, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2023-09-21  
[41] 2024-06-01  
[30] US (18/060,661) 2022-12-01

[21] **3,213,898**  
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) H04L 61/4511 (2022.01)**  
[25] EN  
[54] **DISCOVERY OF FQDN FOR TARGET WEBSITE**  
[54] **DECOUVERTE DU NOM DE DOMAINE COMPLET (FQDN) POUR UN SITE WEB CIBLE**  
[72] KANGAS, SANTERI, US  
[72] KASSLIN, KIMMO, US  
[72] MAROZAS, LEONARDAS, US  
[72] SAVIN, FILIP, US  
[71] CUJO LLC, US  
[22] 2023-09-25  
[41] 2024-05-30  
[30] US (18/072,280) 2022-11-30

[21] **3,215,603**  
[13] A1

[25] EN  
[54] **TOPIC FOCUSED RELATED ENTITY EXTRACTION**  
[54] **EXTRACTION D-ENTITES EN FONCTION D-UN SUJET**  
[72] GHOSH, PALLABI, US  
[72] GUPTA, SPARSH, US  
[71] INTUIT INC., US  
[22] 2023-10-06  
[41] 2024-05-28  
[30] US (17/994,854) 2022-11-28

[21] **3,217,590**  
[13] A1

[51] **Int.Cl. H04L 9/00 (2022.01) H04L 9/36 (2006.01)**  
[25] EN  
[54] **METHOD FOR DETECTING ANOMALIES IN DATA TRAFFIC GENERATED BY PERIPHERAL DEVICES SIMULATING HUMAN-LIKE PATTERNS**  
[54] **METHODE DE DETECTION D-ANOMALIES DANS LE TRAFIC DE DONNEES GENERE PAR DES PERIPHERIQUES SIMULANT DES FORMES HUMAINES**  
[72] CAVALLARO CORTI, ALESSANDRO, IT  
[72] CREMONA, LUCA, IT  
[72] DI PINTO, ALESSANDRO, IT  
[72] VALENTE, ALESSANDRO, IT  
[72] ZAMBERLETTI, ALESSANDRO, LU  
[71] NOZOMI NETWORKS SAGL, CH  
[22] 2023-10-24  
[41] 2024-05-28  
[30] US (18/058,985) 2022-11-28

[21] **3,217,970**  
[13] A1

[51] **Int.Cl. E05D 15/16 (2006.01) E06B 3/44 (2006.01)**  
[25] EN  
[54] **RATCHETING ADJUSTABLE TOP BRACKET ASSEMBLY FOR A MOVABLE BARRIER**  
[54] **ASSEMBLAGE DE FERRURE SUPERIEURE AJUSTABLE A BARRIERE MOBILE**  
[72] LEE, BRADLEY J., US  
[71] OVERHEAD DOOR CORPORATION, US  
[22] 2023-10-30  
[41] 2024-05-29  
[30] US (18/071,343) 2022-11-29

[21] **3,218,036**  
[13] A1

[51] **Int.Cl. G06F 21/16 (2013.01) G06F 21/12 (2013.01) G06F 21/56 (2013.01)**  
[25] EN  
[54] **PRO-ACTIVE DETECTION OF MISAPPROPRIATION OF WEBSITE SOURCE CODE**  
[54] **DETECTION PROACTIVE DE L-APPROPRIATION ILLICITE DU CODE SOURCE D-UN SITE WEB**  
[72] HULCOOP, ADAM, CA  
[72] SHPITS, GADI, CA  
[72] SINGH, JAHANRAJKAR, CA  
[72] GORSHKOV, ALEXANDER, CA  
[72] PRESTON, MACKENZIE, CA  
[72] KURMISH, FELIX, CA  
[71] ROYAL BANK OF CANADA, CA  
[22] 2023-10-30  
[41] 2024-05-30  
[30] US (63/429,019) 2022-11-30

[21] **3,218,536**  
[13] A1

[51] **Int.Cl. C07D 213/55 (2006.01) A01N 43/40 (2006.01) A01P 1/00 (2006.01) A61K 31/4425 (2006.01) A61P 31/00 (2006.01)**  
[25] EN  
[54] **PYRIDINIUM ESTERS**  
[54] **ESTERS DE PYRIDINIUM**  
[72] MASH, BRANDON L., US  
[72] NATOLI, SEAN NICHOLAS, US  
[72] MIRACLE, GREGORY SCOT, US  
[71] THE PROCTER & GAMBLE COMPANY, US  
[22] 2023-11-01  
[41] 2024-05-28  
[30] EP (22209905.3) 2022-11-28

[21] **3,218,698**  
[13] A1

[51] **Int.Cl. B60S 5/02 (2006.01) B67D 7/08 (2010.01) B67D 7/34 (2010.01) F17C 13/02 (2006.01)**  
[25] FR  
[54] **STATION FOR FILLING PRESSURIZED FLUID TANKS**  
[54] **STATION DE REMPLISSAGE DE RESERVOIR DE FLUIDE SOUS PRESSION**  
[72] DUDRET, STEPHANE, FR  
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR  
[22] 2023-11-02  
[41] 2024-05-28  
[30] FR (2212383) 2022-11-28

**Canadian Applications Open to Public Inspection  
May 26, 2024 to June 1, 2024**

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[21] **3,218,984**  
[13] A1

[51] **Int.Cl. E04B 1/78 (2006.01) E04B 1/62 (2006.01) E04B 2/02 (2006.01) E04B 2/28 (2006.01) E04B 2/56 (2006.01)**

[25] EN

[54] **COMPOSITE FRAMING MEMBER COMPRISING ELEMENTS THAT PROVIDE A THERMAL BREAK**

[54] **ELEMENT DE CADRAGE COMPOSITE COMPRENANT DES COMPOSANTS DE BARRIERE THERMIQUE**

[72] BABINEAU, FRANCIS JOHN, JR., US

[71] JOHNS MANVILLE, US

[22] 2023-11-01

[41] 2024-05-28

[30] US (17/994,873) 2022-11-28

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[21] **3,219,366**  
[13] A1

[51] **Int.Cl. G06Q 10/063 (2023.01) G06Q 50/02 (2012.01) G06Q 50/06 (2012.01) E21B 41/00 (2006.01) E21B 44/00 (2006.01)**

[25] EN

[54] **FIELD POWER MANAGEMENT**

[54] **GESTION DE L~ALIMENTATION DU SITE**

[72] ROMER, MICHAEL C., US

[72] VENDETTI, ALEXANDRA C., US

[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US

[22] 2023-11-08

[41] 2024-05-29

[30] US (63/385,275) 2022-11-29

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[21] **3,219,423**  
[13] A1

[51] **Int.Cl. G06Q 40/03 (2023.01) G06Q 20/24 (2012.01)**

[25] EN

[54] **SYSTEM, METHOD AND APPARATUS FOR PROVIDING VOLUNTARY DOWN PAYMENTS FOR ONLINE PURCHASES BASED ON CREDIT**

[54] **SYSTEME, METHODE ET APPAREIL POUR LA FOURNITURE DE DEPOTS VOLONTAIRES POUR DES ACHATS EN LIGNE EN FONCTION DU CREDIT**

[72] MCGOWAN, HENRY, US

[72] KUMAR, NITESH, US

[72] KENDRICK, JESSE, US

[71] AFFIRM, INC., US

[22] 2023-11-09

[41] 2024-05-29

[30] US (18/070,790) 2022-11-29

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[21] **3,219,897**  
[13] A1

[51] **Int.Cl. H02K 7/14 (2006.01) B25B 21/00 (2006.01) B25F 5/00 (2006.01) H02K 7/06 (2006.01)**

[25] EN

[54] **COOLING ELECTRONICS OF POWER TOOLS**

[54] **REFROIDISSEMENT DES COMPOSANTS ELECTRONIQUES D~OUTILS ELECTRIQUES**

[72] TONGUE, MATTHEW, GB

[72] RADINI, RICHARD, GB

[71] NORBAR TORQUE TOOLS LIMITED, GB

[22] 2023-11-13

[41] 2024-06-01

[30] US (18/073,109) 2022-12-01

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[21] **3,220,106**  
[13] A1

[51] **Int.Cl. G06Q 40/03 (2023.01)**

[25] EN

[54] **SYSTEM, METHOD AND APPARATUS FOR ADAPTIVE EXPLORING LENDING MODEL IMPROVEMENT**

[54] **SYSTEME, METHODE ET APPAREIL POUR UNE ETUDE ADAPTATIVE POUR L~AMELIORATION D~UN MODELE DE PRET**

[72] WU, YONGLIN, US

[72] KUMAR, NITESH, US

[71] AFFIRM, INC., US

[22] 2023-11-15

[41] 2024-05-29

[30] US (18/070,726) 2022-11-29

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[21] **3,220,157**  
[13] A1

[51] **Int.Cl. B61D 17/10 (2006.01)**

[25] EN

[54] **COMPOSITE RAILCAR FLOOR ASSEMBLY**

[54] **ASSEMBLAGE DE PLANCHER DE WAGON COMPOSITE**

[72] CORTEZ, DANIEL G., US

[72] HUCK, KENNETH W., US

[71] TRINITY NORTH AMERICAN FREIGHT CAR, INC., US

[22] 2023-11-15

[41] 2024-05-28

[30] US (63/385,050) 2022-11-28



**Demandes canadiennes mises à la disponibilité du public**  
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[21] **3,220,166**  
[13] A1

[51] **Int.Cl. H04B 3/54 (2006.01) H04L 27/00 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR POWER LINE COMMUNICATION (PLC) SIGNAL DATA BODY ENCODING USING DIFFERENTIAL PHASE DETECTION**  
[54] **SYSTEME ET METHODE DE CODAGE D-UN CORPS DE DONNEES DE SIGNAUX DE COMMUNICATION SUR LIGNE ELECTRIQUE AU MOYEN DE LA DETECTION DE PHASE DIFFERENTIELLE**  
[72] WIJAYA, TANDI, US  
[72] VISHWAKARMA, PRATIMA, IN  
[72] CREMONA, MICHAEL, US  
[72] DHAKANE, MANGESH BHAGINATH, IN  
[72] SINGHVI, KRITIKA, US  
[72] DANG, KHOI, US  
[72] NAHAR, AMIT B., IN  
[72] HAYES, THOMAS, US  
[71] BENDIX COMMERCIAL VEHICLE SYSTEMS LLC, US  
[22] 2023-11-15  
[41] 2024-05-30  
[30] US (18/071,915) 2022-11-30

[21] **3,220,215**  
[13] A1

[51] **Int.Cl. H02B 15/00 (2006.01) H02B 1/00 (2006.01) H02J 15/00 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR USER ACCESS CONTROL OF ELECTRICAL SWITCHGEAR**  
[54] **SYSTEMES ET METHODES DE CONTROLE D'ACCES UTILISATEUR D-UN APPAREILLAGE DE COMMUTATION ELECTRIQUE**  
[72] BURNS, ROBERT JUDSON, IE  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[22] 2023-11-16  
[41] 2024-06-01  
[30] US (18/060,747) 2022-12-01

[21] **3,220,225**  
[13] A1

[25] FR  
[54] **METHOD AND APPARATUS FOR THE LIQUEFACTION OF CO2 BY DISTILLATION**  
[54] **PROCEDE ET APPAREIL DE LIQUEFACTION ET EVENTUELLEMENT DE SEPARATION DE CO2 PAR DISTILLATION**  
[72] LECLERC, MATHIEU, FR  
[72] DUBETTIER-GRENIER, RICHARD, FR  
[72] MOREL, THOMAS, FR  
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR  
[22] 2023-11-17  
[41] 2024-05-28  
[30] FR (2212380) 2022-11-28

[21] **3,220,582**  
[13] A1

[51] **Int.Cl. G06Q 10/0836 (2023.01) G07C 9/20 (2020.01) G07F 17/12 (2006.01)**  
[25] EN  
[54] **AUTOMATIC PARCEL DELIVERY VIA MACHINE-READABLE CODE**  
[54] **LIVRAISON AUTOMATIQUE DE COLIS AU MOYEN D-UN CODE LISIBLE PAR MACHINE**  
[72] RHODES, VAUGHN, FR  
[71] QUADIANT TECHNOLOGIES FRANCE, FR  
[22] 2023-11-17  
[41] 2024-05-28  
[30] US (17/994,808) 2022-11-28

[21] **3,220,646**  
[13] A1

[51] **Int.Cl. H04L 67/1097 (2022.01) H04L 41/50 (2022.01) H04L 67/52 (2022.01)**  
[25] EN  
[54] **MULTI-REGION COMMUNICATION DETAIL RECORDS**  
[54] **METADONNEES DE COMMUNICATION MULTIREGIONALES**  
[72] TAM, TERRY, CA  
[71] MITEL NETWORKS CORPORATION, CA  
[22] 2023-11-22  
[41] 2024-05-28  
[30] US (18/070323) 2022-11-28

[21] **3,220,664**  
[13] A1

[25] EN  
[54] **METHOD AND SYSTEM FOR MITIGATING CORROSION AND/OR EROSION IN AN AIRCRAFT ENGINE**  
[54] **METHODE ET SYSTEME POUR ATTENUER LA CORROSION ET/OU L-EROSION DANS UN MOTEUR D'AERONEF**  
[72] GHARAGOZLOO, ALIREZA, CA  
[72] TABAR, ROJA, CA  
[71] PRATT & WHITNEY CANADA CORP., CA  
[22] 2023-11-21  
[41] 2024-05-29  
[30] US (18/070,571) 2022-11-29

[21] **3,220,827**  
[13] A1

[51] **Int.Cl. F23D 23/00 (2006.01) F24H 9/1836 (2022.01) F23C 5/08 (2006.01) F23K 5/00 (2006.01)**  
[25] EN  
[54] **GAS DISTRIBUTION UNIT AND WATER HEATER**  
[54] **UNITE DE DISTRIBUTION DE GAZ ET CHAUFFE-EAU**  
[72] KAKIZAKI, YUSUKE, JP  
[71] PALOMA CO., LTD., JP  
[22] 2023-11-20  
[41] 2024-06-01  
[30] JP (2022-193057) 2022-12-01

[21] **3,220,835**  
[13] A1

[51] **Int.Cl. F24H 15/365 (2022.01) F24H 1/14 (2006.01) F24H 9/00 (2022.01)**  
[25] EN  
[54] **COMBUSTION DEVICE AND WATER HEATER**  
[54] **DISPOSITIF DE COMBUSTION ET CHAUFFE-EAU**  
[72] KAKIZAKI, YUSUKE, JP  
[71] PALOMA CO., LTD., JP  
[22] 2023-11-20  
[41] 2024-06-01  
[30] JP (2022-193058) 2022-12-01

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[21] **3,220,960**  
[13] A1

[25] FR  
[54] **MODULAR TRELLIS SYSTEM**  
[54] **DISPOSITIF MODULABLE POUR LE PALISSAGE**  
[72] CAZENAVE, CEDRIC, FR  
[72] MERLE, GUILLAUME, FR  
[71] SOCIETE LANDAISE DE PROFILAGE ACIER, FR  
[22] 2023-11-24  
[41] 2024-05-28  
[30] FR (FR2212437) 2022-11-28

[21] **3,220,979**  
[13] A1

[51] **Int.Cl. E02F 9/00 (2006.01) E02F 3/36 (2006.01) E02F 3/96 (2006.01) F15B 15/28 (2006.01)**  
[25] EN  
[54] **TOOL HOLDER FOR A MACHINE WITH A POSITIONING SYSTEM**  
[54] **SUPPORT A OUTIL POUR MACHINE COMPRENANT UN SYSTEME DE POSITIONNEMENT**  
[72] WIGG, JAN, SE  
[72] HALLBERG, OSKAR, SE  
[71] OILQUICK AB, SE  
[22] 2023-11-24  
[41] 2024-05-28  
[30] EP (22209884.0) 2022-11-28

[21] **3,220,981**  
[13] A1

[51] **Int.Cl. H01M 50/509 (2021.01) H01M 50/569 (2021.01) H01M 10/48 (2006.01) H02J 7/00 (2006.01)**  
[25] EN  
[54] **BATTERY-STRING MIDPOINT VOLTAGE MEASUREMENT APPARATUS AND METHOD**  
[54] **APPAREIL ET METHODE DE MESURE DE LA TENSION D~UN POINT MILIEU D~UNE SERIE DE BATTERIES**  
[72] FECHALOS, WILLIAM, US  
[72] MCPHERSON, CHARLES, US  
[71] C & C POWER, INC., US  
[22] 2023-11-24  
[41] 2024-05-30  
[30] US (18/514.012) 2023-11-20  
[30] US (63/428.979) 2022-11-30

[21] **3,221,060**  
[13] A1

[51] **Int.Cl. A63B 69/12 (2006.01) A63B 71/00 (2006.01)**  
[25] EN  
[54] **SWIMMING PACING SYSTEM**  
[54] **SYSTEME DE CADENCE DE NAGE**  
[72] PERRON, MARC, CA  
[71] ALIZEM INC., CA  
[22] 2023-11-24  
[41] 2024-05-28  
[30] US (63/385,072) 2022-11-28

[21] **3,221,131**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) A01H 6/14 (2018.01) A01H 1/00 (2006.01) A01H 1/08 (2006.01) A01H 5/02 (2018.01) A01H 5/10 (2018.01) A01H 5/12 (2018.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **LETTUCE VARIETY NUN 08260 LTL**  
[54] **VARIETE DE LAITUE NUN 08260 LTL**  
[72] VAN ZEE, JOHAN, NL  
[71] NUNHEMS B.V., NL  
[22] 2023-11-27  
[41] 2024-05-28  
[30] US (63/428.286) 2022-11-28

[21] **3,221,137**  
[13] A1

[51] **Int.Cl. F03B 13/10 (2006.01) F03B 11/00 (2006.01) F16K 17/00 (2006.01)**  
[25] EN  
[54] **ENERGY-RECOVERY TURBINE WITH PRESSURE-RELEASE VALVE**  
[54] **TURBINE DE RECUPERATION D~ENERGIE COMPRENANT UNE SOUPEPE DE RELACHEMENT DE PRESSION**  
[72] LEVESQUE, NORMAND, CA  
[71] CORPORATION BEARSTREAM INC., CA  
[22] 2023-11-27  
[41] 2024-05-28  
[30] US (63/385,086) 2022-11-28

[21] **3,221,140**  
[13] A1

[51] **Int.Cl. A62C 4/02 (2006.01)**  
[25] EN  
[54] **FLAME ARRESTERS AND END HOUSINGS FOR FLAME ARRESTERS**  
[54] **PARE-FLAMMES ET LOGEMENTS D~EXTREMITE POUR PARE-FLAMMES**  
[72] DIAZ, JUAN MANUEL, US  
[71] EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC., US  
[22] 2023-11-27  
[41] 2024-05-29  
[30] US (18/071,262) 2022-11-29

[21] **3,221,144**  
[13] A1

[25] EN  
[54] **MULTIMEDIA IMAGE PROCESSING METHOD, ELECTRONIC DEVICE, TERMINAL DEVICE CONNECTED THERETO, AND NON-TRANSITORY COMPUTER-READABLE RECORDING MEDIUM**  
[54] **METHODE DE TRAITEMENT D~IMAGE MULTIMEDIA, DISPOSITIF ELECTRONIQUE, TERMINAL CONNECTE AU DISPOSITIF ET SUPPORT D'ENREGISTREMENT NON TRANSITOIRE LISIBLE PAR ORDINATEUR**  
[72] CHOU, PIN-YU, CN  
[72] LEE, YUEH-HUA, CN  
[72] WU, MING-HSIEN, CN  
[72] HUNG, HUI-MEI, CN  
[71] COMPAL ELECTRONICS, INC., TW  
[22] 2023-11-23  
[41] 2024-05-28  
[30] US (63/428,114) 2022-11-28

**Demandes canadiennes mises à la disponibilité du public**  
**26 mai 2024 au 1 juin 2024**

[21] **3,221,166**  
[13] A1

[51] **Int.Cl. B32B 13/04 (2006.01) B32B 37/15 (2006.01) C04B 24/38 (2006.01) C04B 28/14 (2006.01)**

[25] EN

[54] **GYP SUM BOARDS AND METHODS FOR MAKING THEM**

[54] **PANNEAUX DE GYPSE ET METHODES DE FABRICATION**

[72] AMATO, DAHLIA, US

[72] LESPIAT, REMI, US

[72] GRANGE, MARION, US

[71] CERTAINTEED GYPSUM, INC., US

[22] 2023-11-27

[41] 2024-05-28

[30] EP (23152808.4) 2023-01-23

[30] US (63/385,064) 2022-11-28

[21] **3,221,197**  
[13] A1

[51] **Int.Cl. F01M 11/08 (2006.01) F01D 25/18 (2006.01) F02C 7/06 (2006.01) F16N 39/00 (2006.01)**

[25] EN

[54] **STATIC DE-AERATOR AND LUBRICANT SYSTEM**

[54] **DEGAZEUR STATIQUE ET SYSTEME DE LUBRIFICATION**

[72] RADON, JOANNA, CA

[72] LEUNG, HO-WING EDMUND, CA

[71] PRATT & WHITNEY CANADA CORP., CA

[22] 2023-11-27

[41] 2024-05-28

[30] US (18/070,107) 2022-11-28

[21] **3,221,217**  
[13] A1

[51] **Int.Cl. F25D 11/02 (2006.01) A24B 3/10 (2006.01) A24C 5/39 (2006.01) F25D 17/02 (2006.01)**

[25] EN

[54] **REFRIGERATION SYSTEM FOR A CANNABIS PRODUCT MANUFACTURING MACHINE AND CANNABIS PRODUCT MANUFACTURING MACHINE THEREWITH**

[54] **SYSTEME DE REFRIGERATION POUR UNE MACHINE DE FABRICATION DE PRODUIT DE CANNABIS ET MACHINE CONNEXE**

[72] ARCHAMBAULT, ROBERT, CA

[72] MARTEL, DANIEL, CA

[72] BOUCHARD, HAROLD, CA

[71] LE GROUPE SOLID PACKAGING ROBOTIK INC., CA

[22] 2023-11-28

[41] 2024-06-01

[30] US (18/060,686) 2022-12-01

[21] **3,221,232**  
[13] A1

[51] **Int.Cl. E04B 2/02 (2006.01) E04B 2/56 (2006.01)**

[25] EN

[54] **VERTICAL BUILDING PARTITION ASSEMBLED FROM MODULAR BUILDING ELEMENTS**

[54] **CLOISON VERTICALE ASSEMBLEE A PARTIR D-ELEMENTS DE CONSTRUCTION MODULAIRES**

[72] BOLIMOWSKI, PATRYK ADAM, PL

[72] LEWANDOWSKI, DARIUSZ, PL

[72] KOLMUS, KATARZYNA, PL

[72] BUDNIK, PIOTR, PL

[71] DOM 3E REALIZACJE SP. Z O.O., PL

[22] 2023-11-28

[41] 2024-05-30

[30] PL (W.131115) 2022-11-30

[21] **3,221,243**  
[13] A1

[25] EN

[54] **SYSTEM AND METHOD OF MODULATING ANIMATION CURVES**

[54] **SYSTEME ET METHODE POUR MODULER DES COURBES D-ANIMATION**

[72] PAN, YIFANG, CA

[72] SINGH, KARAN, CA

[72] FIUME, EUGENE, CA

[72] LANDRETH, CHRIS, CA

[71] JALI INC., CA

[22] 2023-11-27

[41] 2024-05-29

[30] US (63/385,382) 2022-11-29

[21] **3,221,247**  
[13] A1

[51] **Int.Cl. C09J 133/00 (2006.01) B32B 7/12 (2006.01) B32B 13/02 (2006.01) C09J 9/00 (2006.01) C09J 11/08 (2006.01)**

[25] EN

[54] **ACOUSTIC ADHESIVE COMPOSITION AND LAMINATED BUILDING BOARD INCLUDING SAME**

[54] **COMPOSITION D-ADHESIF ACOUSTIQUE ET PANNEAU DE CONSTRUCTION STRATIFIE LA COMPRENANT**

[72] EGLI, EMMA, US

[72] CHAN, NICKY, US

[72] MONELLO, MELISSA, US

[72] LAI, CHOUNG-HOUNG, US

[72] GLEAN, ALDO, US

[72] GORDON, JAMES N., US

[71] CERTAINTEED GYPSUM, INC., US

[22] 2023-11-28

[41] 2024-05-29

[30] EP (23152809.2) 2023-01-23

[30] US (63/385,236) 2022-11-29

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[21] **3,221,248**  
[13] A1

[51] **Int.Cl. C08L 27/06 (2006.01) C08K 3/013 (2018.01) C08K 5/11 (2006.01) C08K 5/12 (2006.01) C08K 9/02 (2006.01) C08J 3/18 (2006.01)**

[25] EN  
[54] **POLYVINYL CHLORIDE HAVING LOW RELEASE OF SMOKE**

[54] **CHLORURE DE POLYVINYLE A FAIBLE LIBERATION DE FUMEE**

[72] DESMARS, LORIANE, FR  
[72] PARODI, YANN, FR  
[72] LARCHE, JEAN-FRANCOIS, FR  
[72] MARTRES, CHRISTOPHE, FR  
[71] NEXANS, FR  
[22] 2023-11-28  
[41] 2024-05-29  
[30] FR (2212485) 2022-11-29

[21] **3,221,258**  
[13] A1

[51] **Int.Cl. E21B 10/62 (2006.01) E02F 3/22 (2006.01)**

[25] EN  
[54] **ROTATING BIT WITH INTEGRAL WASHER FEATURE**

[54] **FORET ROTATIF PRESENTANT UNE CARACTERISTIQUE DE RONDELLE INTEGREE**

[72] SOLLAMI, PHILLIP, US  
[71] THE SOLLAMI COMPANY, US  
[22] 2023-11-28  
[41] 2024-05-29  
[30] US (18/059,662) 2022-11-29

[21] **3,221,269**  
[13] A1

[25] EN  
[54] **TERMINALLY STERILIZED ALPHA-EMITTING ISOTOPE GENERATOR AND METHOD FOR PRODUCING TERMINALLY STERILIZED ALPHA-EMITTING ISOTOPE**

[54] **GENERATEUR D~ISOTOPE EMETTANT DES PARTICULES ALPHA A TERMINAISONS STERILISEES ET METHODE DE PRODUCTION D~UN TEL ISOTOPE**

[72] PELLETIER, EMILIE, US  
[72] BUSHMAN, GREG, US  
[72] VERMA, SUMIT, US  
[72] AKORO, IAN, US  
[71] WOODFIELD TECHNOLOGIES LLC, US  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428.185) 2022-11-28

[21] **3,221,288**  
[13] A1

[51] **Int.Cl. A41C 3/12 (2006.01) A41C 3/00 (2006.01)**

[25] EN  
[54] **BACK TO FRONT REVERSIBLE GARMENT**

[54] **VETEMENT REVERSIBLE ARRIERE-AVANT**

[72] ROBERTSON, CLARE MAREE, CA  
[72] WATERS, JESSICA MAY, CA  
[71] LULULEMON ATHLETICA CANADA INC., CA  
[22] 2023-11-28  
[41] 2024-05-30  
[30] US (63/429,088) 2022-11-30

[21] **3,221,295**  
[13] A1

[51] **Int.Cl. F21V 29/56 (2015.01) F21V 29/75 (2015.01) F21V 7/22 (2018.01)**

[25] EN  
[54] **SOLAR SIMULATOR APPARATUS**

[54] **APPAREIL DE SIMULATION SOLAIRE**

[72] SARTORE, DOMENICO, IT  
[72] GONZATO, EUGENIO, IT  
[72] QUARTIANI, FEDERICO, IT  
[72] NICHELE, FABIO, IT  
[71] ECOPROGETTI S.R.L., IT  
[22] 2023-11-28  
[41] 2024-05-29  
[30] IT (102022000024621) 2022-11-29

[21] **3,221,299**  
[13] A1

[51] **Int.Cl. C02F 11/10 (2006.01) A62D 3/20 (2007.01) C01B 32/05 (2017.01) C02F 1/02 (2006.01) C10G 1/02 (2006.01)**

[25] EN  
[54] **PROCESS OF TREATING A WASTE MATERIAL CONTAMINATED WITH PERFLUORO-AND POLYFLUOROALKYL SUBSTANCES (PFAS)**

[54] **PROCEDE DE TRAITEMENT DES DECHETS CONTAMINES DE SUBSTANCES PERFLUOROALKYLIQUES ET POLYFLUOROALKYLIQUES (SPFA)**

[72] EIDEM, BROCK, CA  
[72] KRISTIAN, JERRY, CA  
[72] LEWKO, KIERAN, CA  
[72] QIU, SHI, CA  
[71] NULIFE GREENTECH INC., CA  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428,301) 2022-11-28

[21] **3,221,301**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A23L 19/00 (2016.01) A01H 6/14 (2018.01) A01H 1/08 (2006.01) A01H 5/00 (2018.01) A01H 5/02 (2018.01) A01H 5/10 (2018.01) A01H 5/12 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**

[25] EN  
[54] **LETTUCE VARIETY NUN 08261 LTL**

[54] **VARIETE DE LAITUE NUN 08261 LTL**

[72] VAN ZEE, JOHAN, NL  
[71] NUNHEMS B.V., NL  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428,286) 2022-11-28

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**26 mai 2024 au 1 juin 2024**

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[21] **3,221,307**  
[13] A1

[51] **Int.Cl. E21D 21/00 (2006.01)**  
[25] EN  
[54] **ANCHOR BOLT WITH ANTI PROJECTION MECHANISM**  
[54] **BOULON D'ANCRAGE A MECANISME ANTI-PROJECTION**  
[72] COTES, JONATHAN, CA  
[72] PROULX, DOMINIC, CA  
[72] CLICHE, MARIO, CA  
[71] GRILLAGE MAJOR INC., CA  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63428368) 2022-11-28

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[21] **3,221,310**  
[13] A1

[51] **Int.Cl. C12N 5/04 (2006.01) A23K 10/30 (2016.01) A01H 6/14 (2018.01) A01H 1/08 (2006.01) A01H 5/00 (2018.01) A01H 5/10 (2018.01) A01H 5/12 (2018.01) C12N 5/10 (2006.01) C12N 15/82 (2006.01) C12Q 1/68 (2018.01)**  
[25] EN  
[54] **LETTUCE VARIETY NUN 09197 LTL**  
[54] **VARIETE DE LAITUE NUN 09197 LTL**  
[72] VAN ZEE, JOHAN, NL  
[71] NUNHEMS B.V., NL  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428.339) 2022-11-28

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[21] **3,221,322**  
[13] A1

[51] **Int.Cl. A63B 71/06 (2006.01) A63B 71/02 (2006.01)**  
[25] EN  
[54] **AUTOMATIC UMPIRING SYSTEM**  
[54] **SYSTEME D~ARBITRAGE AUTOMATIQUE**  
[72] SCHEMBS, ANDREW J., US  
[72] RAZAVI, ALIREZA, US  
[72] NIARAKI, AMIR, US  
[72] GUILD, JAY L., US  
[71] MUSCO CORPORATION, US  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/385,068) 2022-11-28

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[21] **3,221,332**  
[13] A1

[51] **Int.Cl. G01N 35/00 (2006.01) G01N 33/48 (2006.01)**  
[25] EN  
[54] **AUTOMATED CALIBRATION METHOD AND SYSTEM FOR A DIAGNOSTIC ANALYZER**  
[54] **METHODE ET SYSTEME D~ETALONNAGE AUTOMATIQUE POUR ANALYSEUR DE DIAGNOSTIC**  
[72] HAMMOND, JEREMY, US  
[71] IDEXX LABORATORIES, INC., US  
[22] 2023-11-28  
[41] 2024-05-29  
[30] US (63/428,535) 2022-11-29

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[21] **3,221,341**  
[13] A1

[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/095 (2006.01)**  
[25] EN  
[54] **POWER SAVING SYSTEMS AND METHODS FOR ISOLATION CIRCUITRY IN A VOLTAGE SENSING ACCESSORY**  
[54] **SYSTEMES ET METHODES D~ECONOMIE D~ENERGIE POUR DES CIRCUITS D~ISOLATION DANS UN ACCESSOIRE DE DETECTION DE TENSION**  
[72] OTT, BRIAN LEE, US  
[71] ILLINOIS TOOL WORKS INC., US  
[22] 2023-11-28  
[41] 2024-05-29  
[30] US (63/428,448) 2022-11-29  
[30] US (18/520,637) 2023-11-28

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[21] **3,221,354**  
[13] A1

[51] **Int.Cl. B02C 4/02 (2006.01) B02C 4/42 (2006.01)**  
[25] EN  
[54] **MILLING APPARATUS AND METHOD**  
[54] **APPAREIL ET METHODE DE BROYAGE**  
[72] OLSON, ROY, US  
[72] TRACY, JOSHUA, US  
[72] PEARSON, ALEX, US  
[71] PEARSON INCORPORATED, US  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428,160) 2022-11-28  
[30] US (18/389,424) 2023-11-14

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[21] **3,221,402**  
[13] A1

[51] **Int.Cl. E04B 1/38 (2006.01) E04B 1/20 (2006.01) E04C 3/00 (2006.01) E04F 13/22 (2006.01)**  
[25] EN  
[54] **WIRE HANGER FOR BUILDING STRUCTURES**  
[54] **SUPPORT A BROCHES POUR STRUCTURES DE CONSTRUCTION**  
[72] DICAIRE, MARK A., US  
[71] OMG, INC., US  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428,253) 2022-11-28

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[21] **3,221,404**  
[13] A1

[51] **Int.Cl. A61K 36/185 (2006.01) A61K 9/20 (2006.01) A61K 9/70 (2006.01) A61K 31/05 (2006.01) A61K 31/192 (2006.01) A61K 31/352 (2006.01)**  
[25] EN  
[54] **SUBLINGUAL CANNABINOID COMPOSITIONS**  
[54] **COMPOSITIONS DE CANNABINOIDE SUBLINGUALES**  
[72] SELA, YORAM (DECEASED), IL  
[72] LAMENSDORF, ITSCHAK, IL  
[72] COHEN, NACHSHOL, IL  
[71] ALVIT LCS PHARMA LTD., IL  
[22] 2023-11-28  
[41] 2024-06-01  
[30] US (18/073,347) 2022-12-01

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[21] **3,221,416**  
[13] A1

[51] **Int.Cl. B25H 3/00 (2006.01) B25H 1/04 (2006.01) B25H 3/02 (2006.01) B62B 3/08 (2006.01) B62B 3/10 (2006.01) B65D 5/38 (2006.01) B65D 55/02 (2006.01)**  
[25] EN  
[54] **CUSTOMIZABLE CADDY FOR TILT BINS**  
[54] **CHARIOT PERSONNALISE POUR BACS BASCULANTS**  
[72] WOLFF, ROB, US  
[72] MALMLOFF, CRAIG R., US  
[72] DAWSON, MATT, US  
[71] DEFLECTO, LLC, US  
[22] 2023-11-28  
[41] 2024-05-29  
[30] US (18/070981) 2022-11-29

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**Canadian Applications Open to Public Inspection  
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[21] **3,221,433**  
[13] A1

[51] **Int.Cl. G06F 21/57 (2013.01) G06F 16/95 (2019.01)**  
[25] EN  
[54] **BROWSER EXTENSION ANALYSIS**  
[54] **ANALYSE D~EXTENSION DE NAVIGATEUR**  
[72] MIERCZUK, AXEL, CA  
[72] PRASAD, UDBHAV, CA  
[72] HULCOOP, ADAM, CA  
[72] KURMISH, FELIX, CA  
[72] WISNIEWSKI, TOM, CA  
[71] ROYAL BANK OF CANADA, CA  
[22] 2023-11-29  
[41] 2024-05-30  
[30] US (63/429,006) 2022-11-30

[21] **3,221,436**  
[13] A1

[51] **Int.Cl. C25D 9/02 (2006.01)**  
[25] EN  
[54] **ELECTROCHEMICAL DEPOSITION OF N-HETEROCYCLIC CARBENES**  
[54] **DEPOT ELECTROCHIMIQUE DE CARBENES N-HETEROCYCLIQUES**  
[72] MCLEOD, JENNIFER FERRER, CA  
[72] SHE, ZHE, CA  
[71] QUEENS UNIVERSITY AT KINGSTON, CA  
[22] 2023-11-29  
[41] 2024-05-29  
[30] US (63428630) 2022-11-29

[21] **3,221,446**  
[13] A1

[51] **Int.Cl. F21V 21/30 (2006.01) F21V 29/50 (2015.01) F21V 19/02 (2006.01)**  
[25] EN  
[54] **DUAL AXIS SWIVEL YOKE DESIGN FOR FLOOD LIGHT**  
[54] **CONCEPTION D~ETRIER A EMERILLON A DEUX AXES POUR PROJETEUR**  
[72] HENLEY, CHRISTOPHER G., US  
[72] RADE, ANZAR PANDURANG, IN  
[72] MISHRA, ADARSH, IN  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[22] 2023-11-29  
[41] 2024-05-30  
[30] US (63/385,505) 2022-11-30

[21] **3,221,447**  
[13] A1

[51] **Int.Cl. B64C 1/14 (2006.01) B64D 47/00 (2006.01)**  
[25] EN  
[54] **REMOTE CLOSING AND OPENING SYSTEM FOR A DOOR PROVIDED FOR AN ACCESS OPENING IN A FUSELAGE OF AN AIRCRAFT, AND REMOTE CLOSING METHOD**  
[54] **SYSTEME DE FERMETURE ET D~OUVERTURE A DISTANCE POUR UNE PORTE COMPRENANT UNE OUVERTURE D'ACCES DANS UN FUSELAGE D~AERONEF ET METHODE DE FERMETURE A DISTANCE**  
[72] KLOETERGENS, RAINER, FR  
[72] SCHMITT, LAURENT, FR  
[72] VIDAL, OLIVIER, FR  
[71] AIRBUS CANADA LIMITED PARTNERSHIP, CA  
[22] 2023-11-27  
[41] 2024-05-29  
[30] FR (2212467) 2022-11-29

[21] **3,221,449**  
[13] A1

[25] EN  
[54] **FLIPPED TEMPLATES FOR RECONSTRUCTION-REORDERED INTRA BLOCK COPY**  
[54] **MODELES RENVERSES POUR UNE COPIE DE BLOC INTRA REORDONNE PAR RECONSTRUCTION**  
[72] RUFITSKIY, VASILY ALEXEEVICH, US  
[72] FILIPPOV, ALEXEY KONSTANTINOVICH, US  
[72] DINAN, ESMAEL HEJAZI, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/428,393) 2022-11-28

[21] **3,221,450**  
[13] A1

[51] **Int.Cl. F16K 27/00 (2006.01) F16K 3/02 (2006.01) F16K 3/30 (2006.01) F16K 39/00 (2006.01) F16T 1/38 (2006.01)**  
[25] EN  
[54] **HIGH TEMPERATURE GATE VALVE**  
[54] **ROBINET-VANNE A TEMPERATURE ELEVEE**  
[72] WEBSTER, MATTHEW THOMAS ROBINSON, CA  
[72] HEBERT, CHRISTOPHER WILLIAM, CA  
[71] DRIL-QUIP, INC., US  
[22] 2023-11-29  
[41] 2024-06-01  
[30] US (63429419) 2022-12-01

[21] **3,221,462**  
[13] A1

[51] **Int.Cl. E05F 3/00 (2006.01) E05F 15/60 (2015.01)**  
[25] EN  
[54] **DOOR CLOSER AND ASSIST SYSTEM AND METHOD OF USE**  
[54] **FERME-PORTE, SYSTEME D~ASSISTANCE ET METHODE D~UTILISATION**  
[72] SPECK, SCOTT, US  
[72] HASS, BRIAN D., US  
[71] ASSA ABLOY ACCESSORIES AND DOOR CONTROLS GROUP, INC., US  
[22] 2023-11-29  
[41] 2024-05-29  
[30] US (18/520,732) 2023-11-28  
[30] US (63/428,485) 2022-11-29

[21] **3,221,468**  
[13] A1

[51] **Int.Cl. E04H 13/00 (2006.01)**  
[25] EN  
[54] **SHUTTER MOUNTING SYSTEM**  
[54] **SYSTEME DE MONTAGE DE VOLET**  
[72] TOLLEFSON, PETER, US  
[71] EICKHOF COLUMBARIA, INC., US  
[22] 2023-11-28  
[41] 2024-05-28  
[30] US (63/385,132) 2022-11-28

**Demandes canadiennes mises à la disponibilité du public**  
**26 mai 2024 au 1 juin 2024**

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[21] **3,221,477**  
[13] A1

[51] **Int.Cl. E21B 17/02 (2006.01) E21B 33/03 (2006.01) E21B 43/26 (2006.01)**

[25] EN

[54] **FRACING SYSTEM WITH THREADED BLOCK CONNECTOR AND VARIABLE LENGTH CONNECTOR**

[54] **SYSTEME DE FRACTURATION COMPRENANT UN CONNECTEUR DE BLOC FILETE ET UN CONNECTEUR A LONGUEUR VARIABLE**

[72] STRANKMAN, DAINE, CA

[71] EDGE MECHANICAL DESIGN INC., CA

[22] 2023-11-29

[41] 2024-05-29

[30] US (63/428,726) 2022-11-29

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[21] **3,221,481**  
[13] A1

[51] **Int.Cl. A61F 13/74 (2006.01)**

[25] EN

[54] **WEARABLE PART FOR WEARABLE FLUSING DEVICE AND DIAPER PAD FOR WEARABLE PART**

[54] **PIECE A PORTER POUR UN DISPOSITIF DE CHASSE A PORTER ET SERVIETTE DE COUCHE POUR LA PIECE A PORTER**

[72] WANG, CHIA-KOUN, TW

[72] CHANG, SHUO-HAN, TW

[71] CHIN SHEN HEALTH MANAGEMENT CONSULTANT CO., TW

[22] 2023-11-29

[41] 2024-05-30

[30] TW (111145932) 2022-11-30

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[21] **3,221,490**  
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01) G06T 17/00 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR ROTATING AN AUGMENTED REALITY DISPLAY**

[54] **SYSTEMES ET METHODES POUR EFFECTUER LA ROTATION D~UN AFFICHAGE EN REALITE AUGMENTEE**

[72] MELLING, ALAN RICHARD, US

[72] CILLIA, REMY TRISTAN, US

[72] FRANCOIS, BRUNO JEAN, US

[71] CARVANA, LLC, US

[22] 2023-11-29

[41] 2024-05-29

[30] US (18/071,249) 2022-11-29

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[21] **3,221,509**  
[13] A1

[51] **Int.Cl. F16L 19/07 (2006.01) F16L 19/04 (2006.01) F16L 21/00 (2006.01)**

[25] EN

[54] **EMT COMPRESSION SLIDE OVER COUPLING THREE PIECE ASSEMBLY**

[54] **ASSEMBLAGE EN TROIS MORCEAUX DE RACCORD GLISSANT A COMPRESSION DE TUBE ELECTRIQUE METALLIQUE**

[72] KHALKAR, AMOL ANIL, IN

[72] PAWAR, RAJENDRA VISHWANATH, IN

[72] THORAT, HEMRAJ KEDA, IN

[72] DANDEKAR, TUSHAR KRISHNA, IN

[72] PRABHAKAR, TARADE SUJIT, IN

[71] EATON INTELLIGENT POWER LIMITED, IE

[22] 2023-11-29

[41] 2024-05-30

[30] IN (202211068917) 2022-11-30

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[21] **3,221,573**  
[13] A1

[51] **Int.Cl. A01D 57/20 (2006.01) A01D 57/12 (2006.01)**

[25] EN

[54] **WINDROW MERGER AND METHOD FOR FORMING WINDROWS THROUGH A WINDROW MERGER WHICH COLLECTS AGRICULTURAL PRODUCTS FROM A FIELD**

[54] **ANDAINEUSE A TAPIS ET METHODE DE CREATION D~ANDAINS AU MOYEN D~UNE ANDAINEUSE RAMASSANT DES PRODUITS AGRICOLES DANS UN CHAMP**

[72] UBALDI, RAFFAELE, IT

[72] UBALDI, STEFANO, IT

[71] ROC S.R.L., IT

[22] 2023-11-29

[41] 2024-06-01

[30] IT (102022000024819) 2022-12-01

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[21] **3,221,593**  
[13] A1

[51] **Int.Cl. H04L 67/1001 (2022.01) H04L 47/70 (2022.01) G06F 15/16 (2006.01)**

[25] EN

[54] **CONTINUOUS SCHEDULING FOR AUTOMATED SUSPENSION AND RESUMPTION OF CLOUD RESOURCES**

[54] **PLANIFICATION EN CONTINU POUR LA SUSPENSION ET LE RETABLISSEMENT AUTOMATIQUE DE RESSOURCES EN INFONUAGIQUE**

[72] MOTTLEY, CLAYTON, US

[72] TRAMBLIAN, LOREEG, US

[72] MAYES, CAMERON, US

[72] MAXWELL, AMY ANN, US

[72] HO, KEVIN, US

[72] GRAHAM, TORRANCE, US

[72] WRIGHT, ROBERT, US

[71] CAPITAL ONE SERVICES, LLC, US

[22] 2023-11-29

[41] 2024-05-29

[30] US (18/059566) 2022-11-29

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May 26, 2024 to June 1, 2024**

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[21] **3,221,607**  
[13] A1

[51] **Int.Cl. H02J 50/10 (2016.01) H02J 50/80 (2016.01) B60L 53/12 (2019.01) H02J 7/02 (2016.01) H02M 1/00 (2007.10)**

[25] EN

[54] **METHOD AND CIRCUITRY FOR CONTROLLING A TRANSMITTER AND A RECEIVER OF A WIRELESS POWER TRANSFER SYSTEM**

[54] **METHODE ET CIRCUITS DE COMMANDE POUR CONTROLER UN TRANSMETTEUR ET UN RECEPTEUR D-UN SYSTEME DE TRANSFERT DE PUISSANCE SANS FIL**

[72] ARSENAULT, PAUL, CA  
[72] THORSEN, DANIEL, CA  
[72] RYAN, BERNARD, CA  
[72] HICKEY, MARK, CA  
[72] TURNBULL, ROBERT, CA  
[72] YOUNG, NICHOLAS, CA  
[71] SOLACE POWER INC., CA  
[22] 2023-11-30  
[41] 2024-06-01  
[30] US (63/429293) 2022-12-01

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[21] **3,221,614**  
[13] A1

[51] **Int.Cl. H04L 67/63 (2022.01)**

[25] EN

[54] **METHODS AND SYSTEMS FOR PROVIDING CONTENT**

[54] **METHODES ET SYSTEMES POUR LA FOURNITURE DE CONTENU**

[72] MATHUR, ARPIT, US  
[72] RAVISANKAR, ARUN, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-11-30  
[41] 2024-06-01  
[30] US (18/060,729) 2022-12-01

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[21] **3,221,616**  
[13] A1

[51] **Int.Cl. E04D 13/17 (2006.01) E04C 2/42 (2006.01) F24F 7/02 (2006.01) F24F 13/08 (2006.01)**

[25] EN

[54] **SLANT BACK OFF-RIDGE ROOF VENT**

[54] **EVENT DE TOITURE A INCLINAISON ARRIERE EN DECALAGE DE FAITE**

[72] HARRIS, ROBERT P., US  
[72] CARNICK, ROBERT C., US  
[71] MARCO INDUSTRIES INC., US  
[22] 2023-11-30  
[41] 2024-05-30  
[30] US (63/429043) 2022-11-30  
[30] US (18/522671) 2023-11-29

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[21] **3,221,622**  
[13] A1

[51] **Int.Cl. H04W 72/23 (2023.01) H04W 72/04 (2023.01) H04W 84/12 (2009.01)**

[25] EN

[54] **TRIGGERED TRANSMISSION OPPORTUNITY SHARING**

[54] **COMMUNICATION D-OCCASION A TRANSMISSION DECLENCHEE**

[72] ERKUCUK, SERHAT, US  
[72] KIM, JEONGKI, US  
[72] DINAN, ESMAEL HEJAZI, US  
[72] LANANTE, LEONARDO ALISASIS, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-11-29  
[41] 2024-05-29  
[30] US (63/428,458) 2022-11-29

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[21] **3,221,632**  
[13] A1

[51] **Int.Cl. A63C 3/08 (2006.01) A63C 1/30 (2006.01)**

[25] EN

[54] **REPLACEABLE BLADE ICE SKATE WITH CONTACT NUB**

[54] **PATIN A GLACE A LAME REMPLACABLE COMPRENANT UNE BOSSE DE CONTACT**

[72] STEFAN, TIMOTHY, US  
[71] STEFAN, TIMOTHY, US  
[22] 2023-11-30  
[41] 2024-06-01  
[30] US (18/072,822) 2022-12-01

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[21] **3,221,737**  
[13] A1

[51] **Int.Cl. E04D 13/17 (2006.01) F24F 7/02 (2006.01) F24F 13/08 (2006.01)**

[25] EN

[54] **ROOF VENTILATION SYSTEM**

[54] **SYSTEME DE VENTILATION DE TOIT**

[72] VALLERY, CHRISTOPHER, US  
[72] HARRIS, ROBERT P., US  
[72] WESTGARTH, NEIL, US  
[72] CARNICK, ROBERT C., US  
[72] ALLASTER, GEORGE, US  
[71] MARCO INDUSTRIES, INC., US  
[22] 2023-12-01  
[41] 2024-06-01  
[30] US (63/429406) 2022-12-01  
[30] US (18/521514) 2023-11-28

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[21] **3,221,740**  
[13] A1

[51] **Int.Cl. H04W 72/23 (2023.01) H04W 72/04 (2023.01) H04W 84/12 (2009.01)**

[25] EN

[54] **CHANNEL RESERVATION FOR PACKET TRANSMISSION**

[54] **RESERVATION DE CANAL POUR LA TRANSMISSION DE PAQUET**

[72] LANANTE, LEONARDO ALISASIS, US  
[72] KIM, JEONGKI, US  
[72] DINAN, ESMAEL HEJAZI, US  
[71] COMCAST CABLE COMMUNICATIONS, LLC, US  
[22] 2023-12-01  
[41] 2024-06-01  
[30] US (63/385,638) 2022-12-01

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[21] **3,221,807**  
[13] A1

[51] **Int.Cl. G06F 8/70 (2018.01) G06F 8/10 (2018.01) G06F 8/41 (2018.01)**

[25] EN

[54] **AUTOMATED PUBLIC CERTIFICATION OF SPECIFICATIONS AND SOFTWARE**

[54] **HOMOLOGATION PUBLIQUE AUTOMATIQUE DE FICHES TECHNIQUES ET DE LOGICIELS**

[72] ALBERDI, GUILLERMO ERREZIL, ES  
[72] BEDMAR, MIREIA GONZALEZ, ES  
[72] REYES, EDUARDO HERMO, ES  
[71] FORMAL VINDICATIONS SL, ES  
[22] 2023-11-30  
[41] 2024-05-30  
[30] US (63/428,929) 2022-11-30



**Demandes canadiennes mises à la disponibilité du public**  
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[21] **3,221,948**  
[13] A1

[51] **Int.Cl. H01M 8/04089 (2016.01) H01M 8/04007 (2016.01) H01M 8/065 (2016.01) C25B 1/04 (2021.01) C25B 15/08 (2006.01)**

[25] FR

[54] **REVERSIBLE SYSTEM COMPRISING A REVERSIBLE FUEL CELL AND A METAL HYDRIDE STORAGE DEVICE**

[54] **SYSTEME REVERSIBLE COMPRENANT UNE PILE A COMBUSTIBLE REVERSIBLE ET UN DISPOSITIF DE STOCKAGE A HYDRURE METALLIQUE**

[72] LEON, ALINE, DE

[71] ELECTRICITE DE FRANCE, FR

[22] 2023-12-01

[41] 2024-06-01

[30] FR (2212633) 2022-12-01

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[21] **3,228,762**  
[13] A1

[51] **Int.Cl. G06Q 10/063 (2023.01) G06F 16/27 (2019.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR MANAGING DIGITAL GOVERNANCE IN DIGITAL ECOSYSTEM**

[54] **SYSTEME ET METHODE POUR LA GESTION DE LA GOUVERNANCE NUMERIQUE DANS UN ECOSYSTEME NUMERIQUE**

[72] SANNI, IKHELOWA USMAN, US

[72] SANNI, CHRISTINE NICHOLE, US

[71] SANNI, IKHELOWA USMAN, US

[71] SANNI, CHRISTINE NICHOLE, US

[22] 2024-02-10

[41] 2024-05-29

[30] US (11775904) 2023-03-02

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[21] **3,222,068**  
[13] A1

[51] **Int.Cl. C11D 17/06 (2006.01) C11D 1/12 (2006.01) C11D 1/68 (2006.01) C11D 1/83 (2006.01) C11D 3/10 (2006.01) C11D 3/20 (2006.01) C11D 3/37 (2006.01) C11D 3/386 (2006.01) C11D 3/395 (2006.01)**

[25] EN

[54] **POWDERED DETERGENT COMPOSITION**

[54] **COMPOSITION DE DETERGENT EN POUVRE**

[72] DIMOTAKIS, EMMANUEL, US

[72] BERNARD, ANDREW NEAL, US

[72] CAMIRE, CASEY ELPHEGE, US

[72] HILDEBRANSKI, MARIUSZ, US

[71] HENKEL AG & CO. KGAA, DE

[22] 2023-11-30

[41] 2024-06-01

[30] US (63/429,448) 2022-12-01

[30] US (18/508,550) 2023-11-14

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[21] **3,228,996**  
[13] A1

[51] **Int.Cl. B60G 23/00 (2006.01) B60G 17/015 (2006.01) B60G 17/0165 (2006.01) B60G 17/018 (2006.01) B60G 17/019 (2006.01) B60G 17/08 (2006.01)**

[25] EN

[54] **SUSPENSION CONTROL SYSTEM**

[54] **SYSTEME DE COMMANDE DE SUSPENSION**

[72] WRIGHT, GRANT, CA

[71] KELSO TECHNOLOGIES INC., CA

[22] 2024-02-13

[41] 2024-05-28

[30] US (63/580,279) 2023-09-01

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[21] **3,222,664**  
[13] A1

[51] **Int.Cl. A01D 34/13 (2006.01)**

[25] EN

[54] **MOWER KNIFE DEVICE**

[54] **DISPOSITIF DE LAME DE FAUCHEUSE**

[72] WEPFER, HANS, CH

[71] WEPFER TECHNICS AG, CH

[22] 2023-11-30

[41] 2024-05-30

[30] EP (22210607.2) 2022-11-30

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[21] <b>2,990,338</b> [13] A1	[21] <b>3,195,731</b> [13] A1	[21] <b>3,219,644</b> [13] A1
[51] <b>Int.Cl. C09C 1/48 (2006.01) C08K 3/04 (2006.01) H01M 4/62 (2006.01)</b>	[51] <b>Int.Cl. B62D 5/08 (2006.01) B62D 5/18 (2006.01)</b>	[51] <b>Int.Cl. H01M 10/633 (2014.01) H01M 50/383 (2021.01) H01M 50/609 (2021.01) H01M 10/48 (2006.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>HIGH-CONDUCTIVE CARBON BLACK WITH LOW VISCOSITY</b>	[54] <b>FOUR-WHEEL STEERING CONTROL SYSTEM AND CONTROL METHOD THEREFOR</b>	[54] <b>METHOD FOR REMOTELY SOLVING THERMAL RUNAWAY AND RELATED PRODUCTS</b>
[54] <b>NOIR DE CARBONE HAUTEMENT CONDUCTEUR DE FAIBLE VISCOSITE</b>	[54] <b>SYSTEME DE COMMANDE DE DIRECTION A QUATRE ROUES ET METHODE DE COMMANDE CONNEXE</b>	[54] <b>METHODE DE SOLUTION A DISTANCE POUR RESOUDRE A DISTANCE UN PROBLEME DE FUITE THERMIQUE ET PRODUITS CONNEXES</b>
[72] SPAHR, MICHAEL E., CH	[72] ZHANG, ZHAOLIANG, CN	[72] JIANG, HUAIYU, CN
[72] ZURCHER, SIMONE, CH	[72] LI, SHAOLEI, CN	[71] SHENZHEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD., CN
[72] RODLERT-BACILIERI, MARLENE, CH	[72] WANG, DEHONG, CN	[71] XIAMEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD., CN
[72] MORNAGHINI, FLAVIO, CH	[72] XUE, DESEN, CN	[85] 2023-11-20
[72] GRUENBERGER, THOMAS M., BE	[72] ZHAO, ZENGZHI, CN	[86] 2023-10-31 (PCT/CN2023/128866)
[71] IMERYS GRAPHITE & CARBON SWITZERLAND LTD., CH	[72] DENG, XIAOFEI, CN	[87] (3219644)
[85] 2017-12-20	[72] GUO, BING, CN	[30] CN (202211507855.4) 2022-11-29
[86] 2016-07-08 (PCT/EP2016/066343)	[71] LINGONG HEAVY MACHINERY CO., LTD, CN	
[87] (WO2017/005921)	[85] 2023-04-14	
[30] EP (15176181.4) 2015-07-09	[86] 2022-11-29 (PCT/CN2022/134980)	
	[87] (3195731)	
	[30] CN (202210407581.5) 2022-04-19	
[21] <b>3,177,630</b> [13] A1	[21] <b>3,213,271</b> [13] A1	
[51] <b>Int.Cl. A23L 33/21 (2016.01) A23L 29/244 (2016.01) A23L 29/256 (2016.01) A23L 29/262 (2016.01) A23L 33/125 (2016.01)</b>	[51] <b>Int.Cl. B01D 53/22 (2006.01) B01D 69/08 (2006.01)</b>	
[25] EN	[25] EN	
[54] <b>SUPERABSORBENT MATERIAL AND METHODS OF MAKING THE SAME</b>	[54] <b>A SYSTEM AND METHOD FOR REMOVING ACIDIC GAS FROM A POST COMBUSTION PROCESS STREAM</b>	
[54] <b>MATERIAU SUPERABSORBANT ET SES PROCEDES DE FABRICATION</b>	[54] <b>SYSTEME ET METHODE POUR ELIMINER LE GAZ ACIDE D-UNE FLUX DE TRAITEMENT POST-COMBUSTION</b>	
[72] SUN, LIJUN, US	[72] KHALIT, SITI HAJAR BT, MY	
[71] HEALTHALL LABORATORY, INC., US	[72] QUEK, VEN CHIAN, MY	
[85] 2022-11-02	[72] ROSTANI, KHAIRUL B, MY	
[86] 2021-02-05 (PCT/US2021/016806)	[72] CAO, YIMING, CN	
[87] (WO2021/158910)	[72] KANG, GUODONG, CN	
[30] US (62/971,668) 2020-02-07	[71] PETROLIAM NASIONAL BERHAD (PETRONAS), MY	
	[71] DALIAN INSTITUTE OF CHEMICALS PHYSICS, CHINESE ACADEMY OF SCIENCES, CN	
	[85] 2023-09-19	
	[86] 2022-11-30 (PCT/CN2022/135236)	
	[87] (3213271)	

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[21] **3,222,565**  
[13] A1

[51] **Int.Cl. F03D 1/00 (2006.01) F03D 13/20 (2016.01) E02D 27/42 (2006.01) F16B 7/00 (2006.01)**

[25] EN

[54] **NODE FOR LOWER STRUCTURE OF OFFSHORE WIND POWER GENERATOR WHICH IS MANUFACTURED BY CASTING METHOD**

[54] **NOEUD POUR UNE STRUCTURE INFÉRIEURE DE GÉNÉRATRICE ÉOLIENNE EN MER FABRIQUÉE SELON UN PROCÉDE DE MOULAGE**

[72] KIM, DAE SEONG, KR  
[72] LEE, CHANG SOO, KR  
[72] PARK, JONG HWA, KR  
[72] PARK, SUNG IG, KR  
[72] HWANG, SOO BEEN, KR  
[71] DAECHANG SOLUTION CO., LTD., KR

[85] 2023-12-08  
[86] 2023-07-24 (PCT/KR2023/010666)  
[87] (3222565)  
[30] KR (10-2022-0162270) 2022-11-29

[21] **3,227,757**  
[13] A1

[51] **Int.Cl. C07D 249/08 (2006.01)**

[25] EN

[54] **SYNTHESIS METHOD FOR SULFENTRAZONE INTERMEDIATE**

[54]

[72] LIU, QIANG, CN  
[72] LI, HAIHUA, CN  
[72] XU, YANLEI, CN  
[72] ZHAO, GUANGLI, CN  
[72] XIE, YONGKANG, CN  
[72] LI, ZHIQING, CN  
[71] NINGXIA RAINBOW CHEMICAL CO., LTD., CN

[85] 2024-02-01  
[86] 2023-10-09 (PCT/CN2023/123481)  
[87] (3227757)  
[30] CN (CN202211506227.4) 2022-11-29

[21] **3,232,667**  
[13] A1

[51] **Int.Cl. A24B 3/00 (2006.01) A24B 5/00 (2006.01) B07B 4/02 (2006.01) B07B 9/02 (2006.01)**

[25] EN

[54] **A DEVICE FOR REMOVING STEMS IN A CIGARETTE MAKING PROCESS AND A METHOD FOR REMOVING THE STEMS**

[54]

[72] YI, BIN, CN  
[72] TANG, JUN, CN  
[72] ZHOU, BING, CN  
[72] LIN, WENQIANG, CN  
[72] HE, BANGHUA, CN  
[72] WANG, JIN, CN  
[72] CAI, BO, CN  
[72] GAO, XIAOHUA, CN  
[72] LI, CHAO, CN  
[72] TAN, GUOZHONG, CN  
[72] WEN, YADONG, CN  
[72] TANG, LI, CN  
[72] LIN, SIDI, CN  
[72] SUN, JIELIN, CN  
[71] CHINA TOBACCO YUNNAN INDUSTRIAL CO., LTD, CN

[85] 2024-03-21  
[86] 2023-02-21 (PCT/CN2023/077298)  
[87] (3232667)  
[30] CN (202310135502.4) 2023-02-20

[21] **3,233,434**  
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A24F 40/10 (2020.01) A24F 40/42 (2020.01) A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 9/72 (2006.01) A61K 36/185 (2006.01) C07D 311/80 (2006.01)**

[25] EN

[54] **VAPORIZABLE CANNABINOID COMPOSITIONS**

[54] **COMPOSITIONS DE CANNABINOÏDE VAPORISABLES**

[72] FRASER, MAX, CA  
[71] ZEST CANNABIS INC., CA

[85] 2024-03-26  
[86] 2023-11-27 (PCT/CA2023/051581)  
[87] (3233434)  
[30] US (63/428,180) 2022-11-28

[21] **3,238,546**  
[13] A1

[51] **Int.Cl. C11D 3/386 (2006.01)**

[25] EN

[54] **HOME CARE COMPOSITION COMPRISING AN AMYLASE**

[54] **COMPOSITION POUR D'ENTRETIEN MENAGER COMPRENANT UNE AMYLASE**

[72] BELL-RUSIEWICZ, KATARZYNA DOROTA, GB  
[72] JACKSON, MICHELLE, GB  
[72] MORALES GARCIA, ANA L., GB  
[72] BHATE, MANASI, US  
[72] CHAN, AMANDA, US  
[72] CHAN, HON KIT, US  
[72] LASSILA, JONATHAN, US  
[72] LEEFLANG, CHRIS, NL  
[72] RAMER, SANDRA W., US  
[72] TRAN, PATRICIA, US  
[71] THE PROCTER & GAMBLE COMPANY, US

[85] 2024-05-17  
[86] 2022-12-14 (PCT/US2022/081481)  
[87] (WO2023/114792)  
[30] US (63/290,099) 2021-12-16

[21] **3,238,548**  
[13] A1

[51] **Int.Cl. H04W 76/18 (2018.01) H04W 76/19 (2018.01) H04W 76/27 (2018.01)**

[25] EN

[54] **DETERMINING SIDELINK CONNECTION TIMERS FOR COMMUNICATION ESTABLISHMENT VIA A SIDELINK RELAY**

[54] **DETERMINATION DE TEMPORISATEURS DE CONNEXION DE LIAISON LATÉRALE POUR ÉTABLIR UNE COMMUNICATION VIA UN RELAIS DE LIAISON LATÉRALE**

[72] BASU MALLICK, PRATEEK, DE  
[72] GANESAN, KARTHIKEYAN, DE  
[72] LOHR, JOACHIM, DE  
[72] KUCHIBHOTLA, RAVI, US  
[71] LENOVO (SINGAPORE) PTE. LTD., SG

[85] 2024-05-17  
[86] 2023-01-23 (PCT/IB2023/050562)  
[87] (WO2023/139558)  
[30] US (63/302,006) 2022-01-21

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[21] **3,238,550**  
[13] A1

[51] **Int.Cl. A61K 31/437 (2006.01) A61K 31/4545 (2006.01) A61P 27/02 (2006.01) C07D 401/06 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **TABLET FORMULATIONS OF RBP4 INHIBITORS AND METHODS OF USE**

[54] **FORMULATIONS EN COMPRIMES D'INHIBITEURS DE RBP4 ET METHODES D'UTILISATION**

[72] WANG, CHENG-CHI IRENE, US

[72] LIN, YU-HSIN TOM, US

[71] BELITE BIO, INC, US

[85] 2024-05-17

[86] 2022-11-22 (PCT/US2022/080335)

[87] (WO2023/097221)

[30] US (63/282,540) 2021-11-23

[21] **3,238,551**  
[13] A1

[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR TREATING CANCER**

[54] **METHODES ET COMPOSITIONS POUR TRAITEMENT DU CANCER**

[72] FRUCHTMAN, STEVEN, US

[72] PARRIS, MATTHEW, US

[72] GELDER, MARK, US

[71] ONCONOVA THERAPEUTICS, INC., US

[85] 2024-05-17

[86] 2022-11-18 (PCT/US2022/080194)

[87] (WO2023/092104)

[30] US (63/280,948) 2021-11-18

[21] **3,238,552**  
[13] A1

[51] **Int.Cl. C01B 33/193 (2006.01) C01B 33/12 (2006.01) C01B 33/143 (2006.01) C09C 1/30 (2006.01)**

[25] EN

[54] **TIRE ELASTOMERIC COMPOSITIONS COMPRISING A PRECIPITATED SILICA**

[54] **COMPOSITIONS ELASTOMERES DE PNEU COMPRENANT UNE SILICE PRECIPITEE**

[72] FERAL-MARTIN, CEDRIC, FR

[72] ALLAIN NAJMAN, EMMANUELLE, FR

[72] LAURIOL-GARBHEY, PASCALINE, FR

[72] CHAUSSEE, THOMAS, FR

[72] GUY, LAURENT, FR

[72] BADOIL, LAURENT, FR

[72] PIFFARD, OLIVIER, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2024-05-17

[86] 2022-12-21 (PCT/EP2022/087217)

[87] (WO2023/118286)

[30] EP (21306930.5) 2021-12-23

[21] **3,238,555**  
[13] A1

[51] **Int.Cl. G01N 21/94 (2006.01)**

[25] EN

[54] **METHOD FOR VERIFYING THE RESULT OF A PROCESS OF CLEANING SIMULATED CHEMICAL AND/OR MICROBIOLOGICAL CONTAMINATION APPLIED BEFOREHAND TO A TEST AREA**

[54] **PROCEDE DE VERIFICATION DU RESULTAT D'UN PROCESSUS DE NETTOYAGE D'UNE CONTAMINATION CHIMIQUE ET/OU MICROBIOLOGIQUE SIMULEE APPLIQUEE AU PREALABLE A UNE ZONE D'ESSAI**

[72] HOMMES, GREGOR, DE

[72] RAVASIO, DAVIDE, CH

[71] SKAN AG, CH

[85] 2024-05-17

[86] 2022-11-08 (PCT/CH2022/000009)

[87] (WO2023/087120)

[30] EP (21405006.4) 2021-11-19

[21] **3,238,557**  
[13] A1

[51] **Int.Cl. C01B 33/193 (2006.01) C08K 3/36 (2006.01)**

[25] EN

[54] **TIRE ELASTOMERIC COMPOSITIONS COMPRISING A PRECIPITATED SILICA**

[54] **COMPOSITIONS ELASTOMERES POUR PNEUS COMPRENANT UNE SILICE PRECIPITEE**

[72] FERAL-MARTIN, CEDRIC, FR

[72] ALLAIN NAJMAN, EMMANUELLE, FR

[72] LAURIOL-GARBHEY, PASCALINE, FR

[72] CHAUSSEE, THOMAS, FR

[72] GUY, LAURENT, FR

[72] BADOIL, LAURENT, FR

[72] PIFFARD, OLIVIER, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2024-05-17

[86] 2022-12-21 (PCT/EP2022/087211)

[87] (WO2023/118282)

[30] EP (21306928.9) 2021-12-23

[21] **3,238,560**  
[13] A1

[51] **Int.Cl. A01H 1/00 (2006.01) C12N 9/02 (2006.01) C12N 9/22 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **LOX3 GENE MODULATION AND ARMYWORM TOLERANCE**

[54] **MODULATION DU GENE LOX3 ET TOLERANCE A LA CHENILLE LEGIONNAIRE**

[72] BAK, AURELIE, US

[72] STAHL, DIETMAR, DE

[72] STIRNWEIS, DANIEL, DE

[72] SCHEUERMANN, DANIELA, DE

[72] KESSEL, BETTINA, DE

[71] KWS SAAT SE & CO. KGAA, DE

[85] 2024-05-17

[86] 2023-01-13 (PCT/EP2023/050685)

[87] (WO2023/135231)

[30] US (63/299,628) 2022-01-14

[30] EP (22153142.9) 2022-01-25

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[21] **3,238,561**  
[13] A1

[51] **Int.Cl. E02F 3/40 (2006.01) E02F 9/28 (2006.01)**  
[25] EN  
[54] **AN EARTH MOVING EQUIPMENT BUCKET CORNER**  
[54] **COIN DE GODET D'EQUIPEMENT DE TERRASSEMENT**  
[72] JAVADI, MEHRDAD, AU  
[72] HYVONEN, ILKKA, FI  
[71] SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD, AU  
[85] 2024-05-17  
[86] 2022-10-26 (PCT/AU2022/051279)  
[87] (WO2023/108193)  
[30] EP (21214481.0) 2021-12-14

[21] **3,238,563**  
[13] A1

[51] **Int.Cl. C22C 5/06 (2006.01) C22C 13/00 (2006.01) C23C 2/02 (2006.01) C23C 2/08 (2006.01) C23C 28/02 (2006.01) H01R 13/03 (2006.01)**  
[25] EN  
[54] **SILVER-TIN COATING FOR ELECTRICAL CONNECTORS, AND ELECTRICAL CONNECTORS WITH SILVER-TIN COATINGS**  
[54] **REVETEMENT D'ARGENT-ETAIN POUR CONNECTEURS ELECTRIQUES, ET CONNECTEURS ELECTRIQUES DOTES DE REVETEMENTS D'ARGENT-ETAIN**  
[72] FUNKE, KELLY S., US  
[72] JOHN, KON, US  
[71] WIELAND ROLLED PRODUCTS NORTH AMERICA, LLC, US  
[85] 2024-05-17  
[86] 2022-12-02 (PCT/US2022/051654)  
[87] (WO2023/102181)  
[30] US (63/285,255) 2021-12-02

[21] **3,238,565**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61P 11/00 (2006.01)**  
[25] EN  
[54] **MUC5-TARGETED ANTISENSE OLIGONUCLEOTIDES AND RELATED METHODS FOR REGULATING EXPRESSION OF MUC5AC AND MUC5B**  
[54] **OLIGONUCLEOTIDES ANTISENS CIBLANT MUC5 ET PROCEDES ASSOCIES POUR MODULER L'EXPRESSION DE MUC5AC ET MUC5B**  
[72] HART, GILI, IL  
[72] OZERI-GALAI, EFRAT, IL  
[72] OREN, YIFAT, IL  
[72] BARCHAD-AVITZUR, OFRA, IL  
[72] STAMPFER, CHAVA, IL  
[71] SPLISENSE LTD., IL  
[85] 2024-05-17  
[86] 2022-12-08 (PCT/IL2022/051303)  
[87] (WO2023/105527)  
[30] US (63/287,554) 2021-12-09  
[30] US (63/304,622) 2022-01-30

[21] **3,238,566**  
[13] A1

[51] **Int.Cl. A41D 13/11 (2006.01)**  
[25] EN  
[54] **MASK HAVING LV STRUCTURE AND DEVICE THEREOF**  
[54] **MASQUE AYANT UNE STRUCTURE LV ET DISPOSITIF ASSOCIE**  
[72] YANG, MINGYU, CN  
[71] YANG, MINGYU, CN  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/CN2022/133031)  
[87] (WO2023/088450)  
[30] CN (202111448692.2) 2021-11-18  
[30] CN (PCT/CN2021/141008) 2021-12-23  
[30] CN (202210034107.2) 2022-01-13  
[30] CN (202221523693.9) 2022-06-18  
[30] CN (202211269160.7) 2022-10-17

[21] **3,238,570**  
[13] A1

[51] **Int.Cl. H04L 41/5041 (2022.01) H04L 41/0895 (2022.01) H04L 41/5009 (2022.01) H04L 43/55 (2022.01)**  
[25] EN  
[54] **DYNAMIC MANAGEMENT OF SOFTWARE-DEFINED SERVICE CHAINS FOR SATELLITE COMMUNICATION**  
[54] **GESTION DYNAMIQUE DE CHAINES DE SERVICE DEFINIES PAR LOGICIEL POUR UNE COMMUNICATION PAR SATELLITE**  
[72] BOYD, CHRISTOPHER, US  
[72] QUIGGLE, GREG, US  
[72] KUBINA, SCOTT, US  
[72] GOMEZ, LUIS, US  
[72] MONTELEONE, RICHARD, US  
[72] TRYNOR, MARK, US  
[72] DE LA ROSA, DANIEL, US  
[72] PRITCHETT, JAMES, US  
[72] DAUGHTRIDGE, STUART, US  
[72] SANDOVAL, FRANK, US  
[71] KRATOS INTEGRAL HOLDINGS, LLC, US  
[85] 2024-05-17  
[86] 2022-03-17 (PCT/US2022/020715)  
[87] (WO2023/177400)

[21] **3,238,572**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4375 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 487/04 (2006.01) C07D 491/14 (2006.01)**  
[25] EN  
[54] **SELECTIVE PARP1 INHIBITOR AND APPLICATION THEREOF**  
[54] **INHIBITEUR SELECTIF DE PARP1 ET SON APPLICATION**  
[72] ZHANG, JING, CN  
[72] WEI, YONGGANG, CN  
[72] SUN, YI, CN  
[71] CHENGDU BAIYU PHARMACEUTICAL CO., LTD., CN  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/CN2022/132782)  
[87] (WO2023/088408)  
[30] CN (202111375066.5) 2021-11-19  
[30] CN (202111522026.9) 2021-12-14  
[30] CN (202210026917.3) 2022-01-14  
[30] CN (202211196794.4) 2022-09-30

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[21] **3,238,574**  
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) A61P 37/00 (2006.01) A61P 37/06 (2006.01)**  
[25] EN  
[54] **METHODS OF USING INTERLEUKIN-2 AGENTS**  
[54] **PROCEDES D'UTILISATION D'AGENTS D'INTERLEUKINE-2**  
[72] BABCOCK, GREGORY, US  
[72] HANCOCK, WAYNE, US  
[71] VISTERRA, INC., US  
[71] THE CHILDREN'S HOSPITAL OF PHILADELPHIA, US  
[85] 2024-05-17  
[86] 2022-12-01 (PCT/US2022/080728)  
[87] (WO2023/102463)  
[30] US (63/284,978) 2021-12-01  
[30] US (63/348,201) 2022-06-02

[21] **3,238,575**  
[13] A1

[51] **Int.Cl. G01S 13/86 (2006.01)**  
[25] EN  
[54] **HYBRID TRANSMISSION AND RECEPTION SCHEME FOR INTEGRATED SENSING AND COMMUNICATION**  
[54] **SCHEMA DE TRANSMISSION ET DE RECEPTION HYBRIDE POUR DETECTION ET COMMUNICATION INTEGRES**  
[72] MA, YIHUA, CN  
[72] YUAN, ZHIFENG, CN  
[72] XIA, SHUQIANG, CN  
[72] YU, GUANGHUI, CN  
[72] HU, LIUJUN, CN  
[71] ZTE CORPORATION, CN  
[85] 2024-05-17  
[86] 2022-03-28 (PCT/CN2022/083241)  
[87] (WO2023/184054)

[21] **3,238,578**  
[13] A1

[51] **Int.Cl. A61K 47/68 (2017.01)**  
[25] EN  
[54] **ANTIBODY-DRUG CONJUGATE AND USE THEREOF**  
[54] **CONJUGUE ANTICORPS-MEDICAMENT ET SON UTILISATION**  
[72] YAO, BING, CN  
[72] HUI, XIWU, CN  
[72] PAN, FUJUN, CN  
[72] SHEN, MINGYUE, CN  
[72] DAN, MO, CN  
[72] LIU, BONING, CN  
[72] YANG, JINYU, CN  
[72] GAO, XIAO, CN  
[72] YUAN, CAN, CN  
[72] GAO, HU, CN  
[71] CSPC MEGALITH BIOPHARMACEUTICAL CO., LTD., CN  
[85] 2024-05-17  
[86] 2022-11-17 (PCT/CN2022/132627)  
[87] (WO2023/088382)  
[30] CN (202111365644.7) 2021-11-17

[21] **3,238,580**  
[13] A1

[51] **Int.Cl. B01D 53/02 (2006.01) B01J 20/26 (2006.01) B01J 20/28 (2006.01) B01J 20/32 (2006.01)**  
[25] EN  
[54] **METHOD FOR SEPARATING GASEOUS CARBON DIOXIDE FROM A GAS MIXTURE**  
[54] **PROCEDE DE SEPARATION DE DIOXYDE DE CARBONE GAZEUX D'UN MELANGE GAZEUX**  
[72] ENKAGUL, VISUTA, CH  
[72] MONNEY, BAPTISTE, CH  
[72] BERROCAL, JOSE AUGUSTO, CH  
[72] WEDER, CHRISTOPH, CH  
[72] VARGAS, ANGELO, CH  
[72] ALBANI, DAVIDE, CH  
[72] LIMONE, CLAUDIO, CH  
[71] CLIMEWORKS AG, CH  
[85] 2024-05-17  
[86] 2022-12-02 (PCT/EP2022/084193)  
[87] (WO2023/104656)  
[30] EP (21213417.5) 2021-12-09

[21] **3,238,582**  
[13] A1

[51] **Int.Cl. A61B 17/22 (2006.01) A61M 1/00 (2006.01)**  
[25] EN  
[54] **ASPIRATION THROMBECTOMY SYSTEM**  
[54] **SYSTEME DE THROMBECTOMIE PAR ASPIRATION**  
[72] DEVILLE, DEREK DEE, US  
[72] PALMER, MATTHEW A., US  
[72] BALES, WILLIAM T., US  
[72] PETERSEN, ERIC, US  
[72] CARTLEDGE, RICHARD, US  
[72] BALES, JR. THOMAS O., US  
[72] RIVERA, CARLOS, US  
[72] CALDERON, ALEJANDRO N., US  
[72] MCBRAYER, SEAN M., US  
[71] RAPID PULSE, INC., US  
[85] 2024-05-17  
[86] 2022-11-17 (PCT/US2022/080088)  
[87] (WO2023/092042)  
[30] US (63/264,207) 2021-11-17  
[30] US (63/267,897) 2022-02-11

[21] **3,238,587**  
[13] A1

[51] **Int.Cl. G06T 19/00 (2011.01)**  
[25] EN  
[54] **OPERATIONS AND MAINTENANCE ENHANCED FILE PROTECTION PROCESSES AND SYSTEMS**  
[54] **PROCESSUS ET SYSTEMES DE PROTECTION DE FICHIERS AMELIOREE D'OPERATIONS ET DE MAINTENANCE**  
[72] FORDEN, HOLLY M., US  
[72] ALLEN, LAURA L., US  
[72] BRESCIANI, CHRISTOPHER A., US  
[72] FITZGERALD, THOMAS L. IV., US  
[71] INNOVATIVE PROCESS TECHNOLOGIES, LLC, US  
[85] 2024-05-17  
[86] 2021-11-19 (PCT/US2021/060026)  
[87] (WO2023/091139)

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[21] **3,238,588**  
[13] A1

[51] **Int.Cl. E05B 9/08 (2006.01) E05B 13/00 (2006.01) E05B 47/06 (2006.01)**  
[25] EN  
[54] **ELECTROMECHANICAL INSTALLATION DEVICE FOR INSERTION INTO A LOCKING CYLINDER-LIKE LOCKING DEVICE**  
[54] **DISPOSITIF D'INSTALLATION ELECTROMECHANIQUE A INSERTION DANS UN DISPOSITIF DE VERROUILLAGE DU TYPE CYLINDRE DE VERROUILLAGE**  
[72] KOLLIKER, MARCEL, CH  
[72] DI SARIO, FRANCO, CH  
[72] ZAHNER, MARKUS, CH  
[71] DORMAKABA SCHWEIZ AG, CH  
[85] 2024-05-17  
[86] 2022-12-02 (PCT/EP2022/084206)  
[87] (WO2023/099731)  
[30] EP (21212259.2) 2021-12-03

[21] **3,238,591**  
[13] A1

[51] **Int.Cl. A61K 31/352 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)**  
[25] EN  
[54] **A CANNABIDIOL (CBD) AND TERPENE FORMULATION THAT INCREASES RESTORATIVE SLEEP IN HUMANS**  
[54] **FORMULATION DE CANNABIDIOL (CBD) ET DE TERPENE AMELIORANT LE SOMMEIL REPARATEUR CHEZ L'HOMME**  
[72] MUCHOWSKI, PAUL, US  
[72] CHANG, ERIC, US  
[72] WANG, MICHAEL, US  
[71] DEFINED RESEARCH, INC., US  
[85] 2024-05-17  
[86] 2023-01-27 (PCT/US2023/011720)  
[87] (WO2023/147036)  
[30] US (63/303,656) 2022-01-27

[21] **3,238,594**  
[13] A1

[51] **Int.Cl. B62D 55/104 (2006.01)**  
[25] EN  
[54] **SUSPENSION SYSTEM AND TRACK SYSTEM HAVING SAME**  
[54] **SYSTEME DE SUSPENSION ET SYSTEME DE RAIL LE COMPRENANT**  
[72] LAVOIE, MARTINE, CA  
[72] BRISSON, WILLIAM, CA  
[72] SAUVAGEAU, YVES, CA  
[71] SOUCY INTERNATIONAL INC., CA  
[85] 2024-05-17  
[86] 2023-03-16 (PCT/CA2023/050341)  
[87] (WO2023/173216)  
[30] US (63/320,241) 2022-03-16

[21] **3,238,595**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/4545 (2006.01) A61K 31/502 (2006.01) A61K 31/5025 (2006.01) A61K 31/517 (2006.01) A61P 1/04 (2006.01) A61P 1/16 (2006.01) C07D 519/00 (2006.01)**  
[25] EN  
[54] **15-PGDH INHIBITOR AND USE THEREOF**  
[54] **INHIBITEUR DE 15-PGDH ET SON UTILISATION**  
[72] ZHANG, XUEJUN, CN  
[72] LI, XUEQIANG, CN  
[72] WANG, HONGQIANG, CN  
[72] YE, DABING, CN  
[72] WANG, MENG, CN  
[72] AN, DAN, CN  
[72] GAO, ZHENXING, CN  
[72] ZHAO, XIN, CN  
[72] LI, LIE, CN  
[72] YANG, JUN, CN  
[71] WUHAN HUMANWELL INNOVATIVE DRUG RESEARCH AND DEVELOPMENT CENTER LIMITED COMPANY, CN  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/CN2022/132863)  
[87] (WO2023/088425)  
[30] CN (202111372073.X) 2021-11-18  
[30] CN (202210837015.8) 2022-07-15  
[30] CN (202211408212.4) 2022-11-10

[21] **3,238,598**  
[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) A61B 34/10 (2016.01) G16H 20/40 (2018.01) G16H 50/20 (2018.01) G06N 3/04 (2023.01) G06N 3/08 (2023.01) A61F 2/82 (2013.01)**  
[25] EN  
[54] **METHOD OF AND SYSTEM FOR TRAINING AND USING MACHINE LEARNING MODELS FOR PRE-INTERVENTIONAL PLANNING AND POST-INTERVENTIONAL MONITORING OF ENDOVASCULAR AORTIC REPAIR (EVAR)**  
[54] **PROCEDE ET SYSTEME D'ENTRAINEMENT ET D'UTILISATION DE MODELES D'APPRENTISSAGE AUTOMATIQUE POUR LA PLANIFICATION PRE-INTERVENTIONNELLE ET LA SURVEILLANCE POST-INTERVENTIONNELLE DE LA REPARATION AORTIQUE ENDOVASCULAIRE (EVAR)**  
[72] FORNERIS, ARIANNA, CA  
[72] DI MARTINO, ELENA, CA  
[72] ABDOLMANAFI, ATEFEH, CA  
[71] VITAA MEDICAL SOLUTIONS INC., CA  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/IB2022/061152)  
[87] (WO2023/089559)  
[30] US (63/264,294) 2021-11-19

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[21] **3,238,599**  
[13] A1

[51] **Int.Cl. H01L 31/02 (2006.01)**  
[25] FR  
[54] **FUNCTIONAL DEVICE WITH DIRECT ELECTRICAL OUTPUTS AND PROCESS FOR FABRICATING SUCH A FUNCTIONAL DEVICE**  
[54] **DISPOSITIF FONCTIONNEL A SORTIES ELECTRIQUES DIRECTES ET PROCEDE DE FABRICATION D'UN TEL DISPOSITIF FONCTIONNEL**  
[72] BOULANGER, AMANDINE, FR  
[72] HESLINGA, DICK, FR  
[72] RODIERE, JEAN, FR  
[72] DE BETTIGNIES, REMI, FR  
[72] COQUELLE, ERIC, FR  
[72] LELIEVRE, PATRICK, FR  
[71] COMMISSARIAT A L'ENERGIE ATOMATIQUE ET AUX ENERGIES ALTERNATIVES, FR  
[71] COLAS, FR  
[85] 2024-05-17  
[86] 2022-11-21 (PCT/EP2022/082559)  
[87] (WO2023/089161)  
[30] FR (FR2112321) 2021-11-22

[21] **3,238,601**  
[13] A1

[51] **Int.Cl. B65F 1/12 (2006.01) B65F 1/16 (2006.01)**  
[25] EN  
[54] **LID LOCK FOR WASTE RECEPTACLE**  
[54] **VERROU DE COUVERCLE POUR RECIPIENT DE DECHETS**  
[72] COX, COLIN, AU  
[71] LITTER LOCK PTY LTD, AU  
[85] 2024-05-17  
[86] 2022-11-11 (PCT/AU2022/051351)  
[87] (WO2023/087049)  
[30] AU (2021903698) 2021-11-17

[21] **3,238,602**  
[13] A1

[51] **Int.Cl. D21C 1/06 (2006.01) D21C 3/02 (2006.01) D21C 3/26 (2006.01) C08B 37/14 (2006.01) D21C 3/04 (2006.01) D21C 3/22 (2006.01) D21C 9/02 (2006.01)**  
[25] EN  
[54] **MULTI-STEP LOW TEMPERATURE AND LOW PRESSURE PROCESS FOR AGRICULTURAL FEEDSTOCK STOCK PREPARATION WITH HEMICELLULOSE AND LIGNIN RECOVERY**  
[54] **PROCEDE A BASSE TEMPERATURE ET BASSE PRESSION A ETAPES MULTIPLES POUR PREPARATION DE STOCK DE MATIERE PREMIERE AGRICOLE AVEC RECUPERATION D'HEMICELLULOSE ET DE LIGNINE**  
[72] LEACH, MILES, US  
[72] MCKENZIE, MICHEL, US  
[71] KANBOL, INC., US  
[85] 2024-05-17  
[86] 2022-11-17 (PCT/US2022/080072)  
[87] (WO2023/092027)  
[30] US (63/280,855) 2021-11-18

[21] **3,238,605**  
[13] A1

[51] **Int.Cl. B01J 13/20 (2006.01)**  
[25] EN  
[54] **CORE-SHELL MICROCAPSULES, MANUFACTURING PROCESSES AND USES**  
[54] **MICROCAPSULES C?UR-ECORCE, PROCEDES DE FABRICATION ET UTILISATIONS**  
[72] GASPARAVICIUS, JONAS, LT  
[72] KISELIOVAS, VAIDOTAS, LT  
[72] LEONAVICIUS, KAROLIS, LT  
[72] MAZUTIS, LINAS, LT  
[72] NAINYS, JUOZAS, LT  
[72] SINKUNAS, ANDRIUS, LT  
[72] ZOLUBAS, GIEDRIUS, LT  
[72] ZILIONIS, RAPOLAS, LT  
[72] KURMAUSKAITE, VAIDA, LT  
[72] RUKSNAITYTE, GRETA, LT  
[72] RAGAISIS, IGNAS, LT  
[72] GUL, DUYGUCAN, LT  
[71] DROPLET GENOMICS, UAB, LT  
[85] 2024-05-17  
[86] 2022-11-30 (PCT/EP2022/083932)  
[87] (WO2023/099610)  
[30] US (63/284,770) 2021-12-01

[21] **3,238,610**  
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) B01J 8/06 (2006.01) C01B 3/50 (2006.01)**  
[25] EN  
[54] **APPARATUS FOR HYDROGEN PRODUCTION**  
[54] **APPAREIL DE PRODUCTION D'HYDROGENE**  
[72] ALLAM, RODNEY JOHN, GB  
[71] 8 RIVERS CAPITAL, LLC, US  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/IB2022/061165)  
[87] (WO2023/089570)  
[30] US (63/280,761) 2021-11-18  
[30] US (63/280,774) 2021-11-18  
[30] US (63/280,786) 2021-11-18  
[30] US (63/280,793) 2021-11-18  
[30] US (63/423,301) 2022-11-07

[21] **3,238,611**  
[13] A1

[51] **Int.Cl. F01K 25/10 (2006.01)**  
[25] EN  
[54] **CO2 POWER CYCLE WITH ADIABATIC COMPRESSION**  
[54] **CYCLE DE PRODUCTION D'ENERGIE UTILISANT DU CO2 A COMPRESSION ADIABATIQUE**  
[72] ALLAM, RODNEY JOHN, GB  
[71] 8 RIVERS CAPITAL, LLC, US  
[85] 2024-05-17  
[86] 2022-11-17 (PCT/IB2022/061111)  
[87] (WO2023/089540)  
[30] US (63/280,790) 2021-11-18

[21] **3,238,612**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**  
[25] EN  
[54] **RECOMBINANT PROTEINS**  
[54] **PROTEINES RECOMBINANTES**  
[72] FERNANDES, FRANCIS V. A., IN  
[71] MAGELLAN THERAPEUTICS INC., CA  
[85] 2024-05-17  
[86] 2021-11-18 (PCT/CA2021/051631)  
[87] (WO2023/087090)



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[21] **3,238,616**  
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) B01J 8/06 (2006.01) C01B 3/50 (2006.01)**

[25] EN

[54] **METHOD FOR HYDROGEN PRODUCTION**

[54] **PROCEDE DE PRODUCTION D'HYDROGENE**

[72] ALLAM, RODNEY JOHN, GB

[71] 8 RIVERS CAPITAL, LLC, US

[85] 2024-05-17

[86] 2022-11-18 (PCT/IB2022/061166)

[87] (WO2023/089571)

[30] US (63/280,761) 2021-11-18

[30] US (63/280,774) 2021-11-18

[30] US (63/280,786) 2021-11-18

[30] US (63/280,793) 2021-11-18

[30] US (63/423,301) 2022-11-07

[21] **3,238,618**  
[13] A1

[51] **Int.Cl. F23C 9/00 (2006.01) F23J 15/06 (2006.01) F23L 7/00 (2006.01) F23L 15/04 (2006.01)**

[25] EN

[54] **HEAT GENERATION FOR SEPARATE ENDOTHERMIC PROCESS WITH CARBON CAPTURE**

[54] **GENERATION DE CHALEUR POUR PROCESSUS ENDOTHERMIQUE SEPARÉ AVEC CAPTURE DE CARBONE**

[72] ALLAM, RODNEY JOHN, GB

[72] BROWN JR., GLENN WILLIAM, US

[71] 8 RIVERS CAPITAL, LLC, US

[85] 2024-05-17

[86] 2022-11-18 (PCT/IB2022/061167)

[87] (WO2023/089572)

[30] US (63/280,822) 2021-11-18

[21] **3,238,619**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/12 (2006.01) A61K 38/10 (2006.01) A61P 29/00 (2006.01) C07K 7/08 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITIONS FOR THE TREATMENT OF VISCERAL PAIN**

[54] **COMPOSITIONS PHARMACEUTIQUES POUR LE TRAITEMENT DE LA DOULEUR VISCERALE**

[72] GERBER, MICHAEL, US

[72] HIGGIN, CAROLYN, US

[71] IRONWOOD PHARMACEUTICALS, INC., US

[85] 2024-05-17

[86] 2022-11-28 (PCT/US2022/080490)

[87] (WO2023/097309)

[30] US (63/283,731) 2021-11-29

[30] US (63/382,612) 2022-11-07

[21] **3,238,621**  
[13] A1

[51] **Int.Cl. F25C 5/02 (2006.01) F25C 5/14 (2006.01)**

[25] EN

[54] **A DEVICE FOR ADJUSTING AND METERING OF DRY ICE GRANULATE FOR A DEVICE FOR MIXING SOLID PARTICLES OF DRY ICE WITH A FLOW OF GASEOUS MEDIUM**

[54] **DISPOSITIF DE REGLAGE ET DE DOSAGE DE GRANULES DE GLACE CARBONIQUE POUR UN DISPOSITIF DE MELANGE DE PARTICULES SOLIDES DE GLACE CARBONIQUE AVEC UN FLUX DE MILIEU GAZEUX**

[72] BAKALA, LUDOVIT, SK

[72] GABRIS, PETER, SK

[72] KUBIS, IVAN, SK

[71] ICS ICE CLEANING SYSTEMS S.R.O., SK

[85] 2024-05-17

[86] 2022-11-23 (PCT/SK2022/050010)

[87] (WO2023/096590)

[30] SK (PP 50060-2021) 2021-11-23

[21] **3,238,622**  
[13] A1

[51] **Int.Cl. B05D 7/06 (2006.01) B05D 7/00 (2006.01) B28B 19/00 (2006.01) E04B 5/02 (2006.01) E04C 3/12 (2006.01) E04C 3/29 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING A LAMINATE OF WOOD AND CEMENTITIOUS COMPOSITIONS**

[54] **PROCEDE DE PRODUCTION D'UN STRATIFIE EN BOIS ET COMPOSITIONS CIMENAIRES**

[72] BURCKHARDT, URS, CH

[72] BURGERT, INGO, CH

[72] CHOFFAT, FABIEN, CH

[72] GRONQUIST, PHILIPPE, CH

[72] KELCH, STEFFEN, CH

[72] KOSTIC, SANJA, CH

[72] MAMIE, TIM, CH

[72] MENNECKE, KLAAS, DE

[72] STADELMANN, URSULA, CH

[72] VOGTLI, STEFAN, CH

[71] SIKA TECHNOLOGY AG, CH

[71] EMPA, CH

[85] 2024-05-17

[86] 2022-11-23 (PCT/EP2022/082966)

[87] (WO2023/099306)

[30] EP (21211443.3) 2021-11-30

[21] **3,238,624**  
[13] A1

[51] **Int.Cl. A61B 90/70 (2016.01)**

[25] EN

[54] **MEDICAL DEVICE CLEANING METHOD AND CORRESPONDING CLEANING DEVICE AND CLEANING APPARATUS**

[54] **PROCEDE DE NETTOYAGE DE DISPOSITIF MEDICAL ET DISPOSITIF DE NETTOYAGE ET APPAREIL DE NETTOYAGE CORRESPONDANTS**

[72] VINTELER, DANIEL, FR

[72] DUROUCHOUX, TIMOTHEE, FR

[71] PLASMABIOTICS, FR

[85] 2024-05-17

[86] 2022-11-18 (PCT/EP2022/082499)

[87] (WO2023/089141)

[30] EP (21306617.8) 2021-11-19

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[21] **3,238,625**  
[13] A1

[51] **Int.Cl. H04L 41/044 (2022.01) H04L 41/046 (2022.01) H04L 41/0853 (2022.01) H04L 41/0869 (2022.01) H04L 41/0893 (2022.01) H04L 43/065 (2022.01) H04L 43/067 (2022.01)**

[25] EN  
[54] **ENDPOINT ASSESSMENT DEDUPLICATION**  
[54] **DEDUPLICATION D'EVALUATION DE POINT D'EXTREMITE**

[72] ROWE, ROBIN, US  
[72] SMITH, JACK, US  
[71] IVANTI, INC., US  
[85] 2024-05-17  
[86] 2022-11-21 (PCT/US2022/080236)  
[87] (WO2023/092120)  
[30] US (63/281,675) 2021-11-21  
[30] US (18/056,996) 2022-11-18

[21] **3,238,626**  
[13] A1

[51] **Int.Cl. C08L 67/02 (2006.01) C08G 63/12 (2006.01) C08G 63/181 (2006.01)**

[25] FR  
[54] **PROCESS FOR PRODUCING A POLYESTER HAVING A REDUCED CRYSTALLISATION TEMPERATURE**  
[54] **PROCEDE DE PRODUCTION D'UN POLYESTER AYANT UNE TEMPERATURE DE CRISTALLISATION REDUITE**

[72] BLANCKE, GUILLAUME, FR  
[72] CHICHE, DAVID, FR  
[72] FAVRE, FREDERIC, FR  
[72] LEINEKUGEL LE COCQ, DAMIEN, FR  
[72] MEKKI-BERRADA, ADRIEN, FR  
[71] IFP ENERGIES NOUVELLES, FR  
[71] JEPLAN, INC., JP  
[85] 2024-05-17  
[86] 2022-12-06 (PCT/EP2022/084584)  
[87] (WO2023/104790)  
[30] FR (FR2113248) 2021-12-10

[21] **3,238,627**  
[13] A1

[51] **Int.Cl. C07K 16/32 (2006.01) A61K 47/68 (2017.01)**

[25] EN  
[54] **IMPROVED ANTIBODY-PAYLOAD CONJUGATES (APCS) PREPARED BY SITE-SPECIFIC CONJUGATION UTILIZING GENETIC CODE EXPANSION**  
[54] **CONJUGUES ANTICORPS-CHARGE UTILE AMELIORES (APC) PREPARES PAR CONJUGAISON SPECIFIQUE A UN SITE A L'AIDE D'UNE EXPANSION DE CODE GENETIQUE**

[72] KOHLER, CHRISTINE, DE  
[72] SAUTER, PAUL, DE  
[71] VERAXA BIOTECH GMBH, DE  
[85] 2024-05-17  
[86] 2022-11-24 (PCT/EP2022/083137)  
[87] (WO2023/094525)  
[30] EP (21210452.5) 2021-11-25  
[30] EP (22152683.3) 2022-01-21  
[30] EP (22187181.7) 2022-07-27  
[30] EP (22197947.9) 2022-09-27

[21] **3,238,628**  
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/46 (2020.01)**

[25] EN  
[54] **ATOMIZATION HEATING ASSEMBLY AND ATOMIZATION HEATING DEVICE USING SAME**  
[54] **ENSEMBLE CHAUFFAGE PAR ATOMISATION ET DISPOSITIF DE CHAUFFAGE PAR ATOMISATION S'Y RAPPORTANT**

[72] CHEN, PING, CN  
[71] SHENZHEN HUACHENGDA PRECISION INDUSTRY CO.LTD., CN  
[85] 2024-05-17  
[86] 2021-11-19 (PCT/CN2021/131915)  
[87] (WO2023/087279)

[21] **3,238,629**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/113 (2010.01) A61K 31/7105 (2006.01) C07K 14/475 (2006.01) C12N 9/22 (2006.01) C12N 15/85 (2006.01)**

[25] EN  
[54] **METHODS FOR INTRATUMORAL DELIVERY OF CRISPR/CAS SYSTEMS**  
[54] **PROCEDES D'ADMINISTRATION INTRATUMORALE DE SYSTEMES CRISPR/CAS**

[72] KMIEC, ERIC B., US  
[72] YOO, BYUNG-CHUN, US  
[72] YANG, STEVEN, US  
[72] BANAS, KELLY H., US  
[71] CHRISTIANA CARE GENE EDITING INSTITUTE, INC., US  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/US2022/050465)  
[87] (WO2023/091706)  
[30] US (63/281,361) 2021-11-19

[21] **3,238,630**  
[13] A1

[51] **Int.Cl. A61M 15/00 (2006.01)**

[25] EN  
[54] **MEDICAMENT DISPENSER FOR HOLDING ELONGATE FORM MEDICAMENT CARRIER AND METHOD OF ASSEMBLING THEREOF**  
[54] **DISTRIBUTEUR DE MEDICAMENTS DESTINE A CONTENIR UN SUPPORT DE MEDICAMENT DE FORME ALLONGEE ET SON PROCEDE D'ASSEMBLAGE**

[72] STUART, ADAM, GB  
[72] HOWGILL, STEPHEN, GB  
[71] MERXIN LTD, GB  
[85] 2024-05-17  
[86] 2022-11-28 (PCT/IB2022/061471)  
[87] (WO2023/095084)  
[30] GB (2117176.4) 2021-11-29

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[21] **3,238,631**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**  
[25] EN  
[54] **INTEGRATED MOBILITY TERMINAL FOR SATELLITE COMMUNICATIONS**  
[54] **TERMINAL DE MOBILITE INTEGRE POUR COMMUNICATIONS PAR SATELLITE**  
[72] RASOULIAN, REZA, US  
[72] SCHMID, JOHN, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2024-05-17  
[86] 2022-11-30 (PCT/US2022/080656)  
[87] (WO2023/102420)  
[30] US (63/264,937) 2021-12-03  
[30] US (18/060,217) 2022-11-30

[21] **3,238,632**  
[13] A1

[51] **Int.Cl. E21B 7/06 (2006.01) E21B 17/06 (2006.01)**  
[25] EN  
[54] **DEFLECTOR-LESS MULTILATERAL SYSTEM USING A BUOYANT GUIDE SUB**  
[54] **SYSTEME MULTILATERAL SANS DEFLECTEUR UTILISANT UNE REDUCTION DE GUIDAGE FLOTTANTE**  
[72] FALNES, MORTEN, NO  
[72] BARRON, ANGUS MACKAY, GB  
[72] GLASER, MARK C., US  
[72] FRIPP, MICHAEL LINLEY, SG  
[71] HALLIBURTON ENERGY SERVICES, INC., US  
[85] 2024-05-17  
[86] 2022-02-18 (PCT/US2022/016956)  
[87] (WO2023/158432)  
[30] US (17/674,418) 2022-02-17

[21] **3,238,633**  
[13] A1

[51] **Int.Cl. F16J 15/16 (2006.01) F16J 15/3212 (2016.01) F16J 15/3236 (2016.01)**  
[25] EN  
[54] **SEALING SYSTEM FOR MECHANICAL MEMBERS**  
[54] **SYSTEME D'ETANCHEITE POUR ELEMENTS MECANIQUES**  
[72] MARCANTE, MARCO, IT  
[71] DEVELOPMENT SERVICE S.R.L., IT  
[85] 2024-05-17  
[86] 2022-11-15 (PCT/IB2022/060976)  
[87] (WO2023/094932)  
[30] IT (102021000029588) 2021-11-23

[21] **3,238,634**  
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01) C07K 5/02 (2006.01)**  
[25] EN  
[54] **SYNTHETIC PROCESS FOR PRODUCTION OF MODIFIED GCC RECEPTOR AGONISTS**  
[54] **PROCEDE DE SYNTHESE POUR LA PRODUCTION D'AGONISTES DU RECEPTEUR GCC MODIFIES**  
[72] LEITHEISER, CHRISTOPHER, US  
[72] STORZ, THOMAS, US  
[72] CHEN, LIN, US  
[71] IRONWOOD PHARMACEUTICALS, INC., US  
[85] 2024-05-17  
[86] 2022-11-22 (PCT/US2022/080295)  
[87] (WO2023/097207)  
[30] US (63/282,842) 2021-11-24  
[30] US (63/323,552) 2022-03-25

[21] **3,238,635**  
[13] A1

[51] **Int.Cl. H01P 5/18 (2006.01) H04B 3/56 (2006.01)**  
[25] EN  
[54] **DUAL FREQUENCY BAND DIRECTIONAL COUPLER WITH ENHANCED INSERTION LOSS**  
[54] **COUPLEUR DIRECTIONNEL A BANDE DE FREQUENCE DOUBLE A PERTE D'INSERTION AMELIOREE**  
[72] BAILEY, PAUL, US  
[71] PPC BROADBAND, INC., US  
[85] 2024-05-17  
[86] 2022-11-23 (PCT/US2022/050953)  
[87] (WO2023/097039)  
[30] US (63/283,002) 2021-11-24

[21] **3,238,636**  
[13] A1

[51] **Int.Cl. C07K 7/08 (2006.01)**  
[25] EN  
[54] **SYNTHETIC PROCESS FOR PRODUCTION OF MODIFIED GCC RECEPTOR AGONISTS**  
[54] **PROCESSUS DE SYNTHESE POUR LA PREPARATION D'AGONISTES DU RECEPTEUR GCC MODIFIES**  
[72] LEITHEISER, CHRISTOPHER, US  
[72] STAERKAER, GUNNAR, US  
[72] ANNBY, ULF, US  
[71] IRONWOOD PHARMACEUTICALS, INC., US  
[85] 2024-05-17  
[86] 2022-11-22 (PCT/US2022/080303)  
[87] (WO2023/097210)  
[30] US (63/282,851) 2021-11-24

[21] **3,238,637**  
[13] A1

[51] **Int.Cl. A47G 27/02 (2006.01)**  
[25] EN  
[54] **FLOOR MAT**  
[54] **TAPIS DE SOL**  
[72] LIU, CHUNMING, US  
[71] ALADDIN MANUFACTURING CORPORATION, US  
[85] 2024-05-17  
[86] 2022-11-25 (PCT/IB2022/061416)  
[87] (WO2023/105340)  
[30] US (63/287,821) 2021-12-09

[21] **3,238,638**  
[13] A1

[51] **Int.Cl. E21B 43/112 (2006.01) E21B 33/128 (2006.01) E21B 43/119 (2006.01) E21B 43/26 (2006.01)**  
[25] EN  
[54] **METHOD OF COMPLETION OF A WELLBORE**  
[54] **PROCEDE DE COMPLETION D'UN Puits DE FORAGE**  
[72] BEAZER, DALYN, CA  
[72] LEE, PAUL BERNARD, CA  
[71] LEE, PAUL BERNARD, CA  
[85] 2024-05-17  
[86] 2022-11-07 (PCT/GB2022/052806)  
[87] (WO2023/099861)  
[30] GB (2117526.0) 2021-12-03

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[21] **3,238,639**  
[13] A1

[51] **Int.Cl. A61B 5/0235 (2006.01)**  
[25] EN  
[54] **DUAL MODE NON-INVASIVE BLOOD PRESSURE MEASUREMENT**  
[54] **MESURE DE PRESSION ARTERIELLE NON INVASIVE A DOUBLE MODE**  
[72] GILHAM, JEFFERY JAY, US  
[72] GOPALAKRISHNAN, NISHANT, US  
[71] SPACELABS HEALTHCARE, LLC, US  
[85] 2024-05-17  
[86] 2022-01-20 (PCT/US2022/013162)  
[87] (WO2023/140850)

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[21] **3,238,640**  
[13] A1

[51] **Int.Cl. A61K 31/122 (2006.01) A61K 31/17 (2006.01) A61N 5/10 (2006.01) A61P 35/00 (2006.01) C12Q 1/6886 (2018.01) C07C 35/37 (2006.01)**  
[25] EN  
[54] **METHOD FOR TREATING CANCER WITH ACYLFULVENE AND RADIATION**  
[54] **METHODE DE TRAITEMENT DU CANCER PAR ACYLFULVENE ET RAYONNEMENT**  
[72] BHATIA, KISHOR, US  
[71] LANTERN PHARMA INC., US  
[85] 2024-05-17  
[86] 2022-11-18 (PCT/US2022/080150)  
[87] (WO2023/092076)  
[30] US (63/264,290) 2021-11-18

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[21] **3,238,641**  
[13] A1

[51] **Int.Cl. G06V 40/19 (2022.01) H04N 19/146 (2014.01) H04N 19/164 (2014.01) H04N 19/167 (2014.01) H04N 13/351 (2018.01) H04N 13/368 (2018.01) H04N 13/383 (2018.01)**  
[25] EN  
[54] **EYE GAZE AS A PROXY OF ATTENTION FOR VIDEO STREAMING SERVICES**  
[54] **REGARD EN TANT QUE MANDATAIRE D'ATTENTION POUR DES SERVICES DE DIFFUSION EN CONTINU DE VIDEO**  
[72] BUSTAMANTE, FABIAN E., US  
[72] BIRRER, STEFAN, US  
[72] REICHBACH, ROY, US  
[71] PHENIX REAL TIME SOLUTIONS, INC., US  
[85] 2024-05-17  
[86] 2022-11-22 (PCT/US2022/080327)  
[87] (WO2023/097218)  
[30] US (63/282,954) 2021-11-24

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[21] **3,238,642**  
[13] A1

[51] **Int.Cl. C07K 14/605 (2006.01)**  
[25] EN  
[54] **STAPLE-CONTAINING POLYPEPTIDES AND APPLICATION THEREOF**  
[54] **POLYPEPTIDES CONTENANT DES AGRAFES ET LEUR APPLICATION**  
[72] PAN, ZHIXIANG, CN  
[72] HE, HAIYING, CN  
[72] JIANG, ZHIGAN, CN  
[72] CHEN, SHUHUI, CN  
[71] SOTER BIOPHARMA PTE. LTD., SG  
[85] 2024-05-17  
[86] 2022-11-09 (PCT/CN2022/130781)  
[87] (WO2023/088143)  
[30] CN (202111400591.8) 2021-11-19  
[30] CN (202210648263.8) 2022-06-08

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[21] **3,238,643**  
[13] A1

[51] **Int.Cl. C01B 17/22 (2006.01) H01M 10/052 (2010.01) H01M 10/056 (2010.01) H01M 10/0562 (2010.01) H01M 50/434 (2021.01)**  
[25] EN  
[54] **PROCESS FOR THE PREPARATION OF SOLID SULFIDE MATERIAL OF FORMULA MALI BP CS DX E (I)**  
[54] **PROCEDE DE PREPARATION D'UN MATERIAU DE SULFURE SOLIDE DE FORMULE MALI BPCS DX E (I)**  
[72] BERTRY, LAURE, FR  
[72] D'ALENCON, LAURIANE, FR  
[72] BRAIDA, MARC-DAVID, FR  
[71] SPECIALTY OPERATIONS FRANCE, FR  
[85] 2024-05-17  
[86] 2022-12-15 (PCT/EP2022/086150)  
[87] (WO2023/111179)  
[30] EP (21306792.9) 2021-12-16

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[21] **3,238,644**  
[13] A1

[51] **Int.Cl. A61M 16/04 (2006.01) A61M 25/00 (2006.01)**  
[25] EN  
[54] **SELECTIVE LOBE DELIVERY OF THERAPEUTICS AND APPARATUS FOR INTERVENTIONAL BRONCHOSCOPY**  
[54] **ADMINISTRATION SELECTIVE AU NIVEAU DES LOBES D'AGENTS THERAPEUTIQUES ET APPAREIL POUR UNE BRONCHOSCOPIE INTERVENTIONNELLE**  
[72] MARACAJA, LUIZ, US  
[71] MARACAJA, LUIZ, US  
[85] 2024-05-17  
[86] 2022-11-17 (PCT/US2022/050330)  
[87] (WO2023/091619)  
[30] US (63/281,012) 2021-11-18

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[21] **3,238,645**  
[13] A1

[51] **Int.Cl. G06F 16/27 (2019.01) G06F 16/21 (2019.01) G06F 16/22 (2019.01) G06F 16/25 (2019.01) G06Q 20/06 (2012.01)**

[25] EN

[54] **GENERATING CRYPTOGRAPHIC PROOF OF A SERIES OF TRANSACTIONS**

[54] **GENERATION D'UNE PREUVE CRYPTOGRAPHIQUE D'UNE SERIE DE TRANSACTIONS**

[72] RIGGAN, MICAH, US

[72] HENNING, TAMAS, US

[72] JOHNSON, GRIER, US

[71] MARQETA, INC., US

[85] 2024-05-17

[86] 2022-08-17 (PCT/US2022/040580)

[87] (WO2023/091203)

[30] US (17/531,600) 2021-11-19

[21] **3,238,646**  
[13] A1

[51] **Int.Cl. A23L 33/105 (2016.01) A61K 9/20 (2006.01) A61K 31/56 (2006.01) A61K 36/9066 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **COMBINATIONS OF CURCUMIN AND URSOLIC ACID AND USES THEREOF**

[54] **COMBINAISONS DE CURCUMINE ET D'ACIDE URSOLIQUE ET LEURS UTILISATIONS**

[72] LISS, MICHAEL A., US

[72] DIGIOVANNI, JOHN, US

[72] SAHA, ACHINTO, US

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

[85] 2024-05-17

[86] 2022-11-18 (PCT/US2022/050401)

[87] (WO2023/091668)

[30] US (63/280,831) 2021-11-18

[21] **3,238,647**  
[13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) E05B 63/00 (2006.01) G07C 9/00 (2020.01)**

[25] EN

[54] **LOCK MODULE WITH MECHANICAL OVERRIDE**

[54] **MODULE DE VERROUILLAGE A SURPASSEMENT MECANIQUE**

[72] HEBLIKAR, ADITYA, IN

[72] VARADARAJU, NAGESH, IN

[72] MOHAMMED, SAAGAR, IN

[71] SCHLAGE LOCK COMPANY LLC, US

[85] 2024-05-17

[86] 2022-11-18 (PCT/US2022/050415)

[87] (WO2023/091670)

[30] US (17/531,087) 2021-11-19

[21] **3,238,648**  
[13] A1

[51] **Int.Cl. B28B 13/02 (2006.01)**

[25] EN

[54] **MIXING AND STIRRING APPARATUS, GYPSUM BOARD MANUFACTURING APPARATUS, AND GYPSUM BOARD MANUFACTURING METHOD**

[54] **MELANGEUR ET AGITATEUR, APPAREIL DE FABRICATION DE PANNEAU DE PLATRE ET METHODE DE FABRICATION CONNEXE**

[72] HIROOKA, YUICHI, JP

[72] ENDO, KAZUMI, JP

[71] YOSHINO GYPSUM CO., LTD., JP

[85] 2024-05-17

[86] 2023-02-22 (PCT/JP2023/006511)

[87] (WO2023/163055)

[30] JP (2022-028259) 2022-02-25

[21] **3,238,649**  
[13] A1

[51] **Int.Cl. C07K 7/06 (2006.01) A61K 31/08 (2006.01)**

[25] EN

[54] **LIQUID COMPOSITIONS COMPRISING A PHOSPHORYLCHOLINE-TUFTSIN CONJUGATE**

[54] **COMPOSITIONS LIQUIDES COMPRENANT UN CONJUGUE PHOSPHORYLCHOLINE-TUFTSINE**

[72] EIDELMAN, CHAIM, IL

[72] MILMAN-LEVINSON, ZOHAR, IL

[72] HAIM-LANGFORD, DAPHNE, IL

[72] NAVON, SHARON, IL

[72] LEVIN, GALIT, IL

[71] TARSIER PHARMA LTD., IL

[85] 2024-05-18

[86] 2022-11-21 (PCT/IL2022/051240)

[87] (WO2023/089622)

[30] US (63/281,690) 2021-11-21

[21] **3,238,650**  
[13] A1

[51] **Int.Cl. C01B 25/45 (2006.01)**

[25] EN

[54] **METHOD FOR FORMING INSOLUBLE SOLUTE ADDUCTS USING AN ACIDIC MEDIUM**

[54] **PROCEDE DE FORMATION DE PRODUITS D'ADDITION DE SOLUTE INSOLUBLES A L'AIDE D'UN FOND DE MILIEU ACIDE**

[72] JOSHI, UMAKANT PRAVINCHANDRA, US

[72] SCHNEIDER, AUSTIN, US

[72] GLOVER, BRADLEY, US

[72] GLOVER, JOHN N., US

[72] RAO, KRISHNA K., US

[72] OLIVER, JEFFREY SCOTT, US

[71] CRYSTAPHASE PRODUCTS, INC., US

[85] 2024-05-18

[86] 2022-11-21 (PCT/US2022/050601)

[87] (WO2023/091760)

[30] US (63/281,523) 2021-11-19

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[21] **3,238,671**  
[13] A1

[51] **Int.Cl. C03C 17/34 (2006.01)**  
[25] EN  
[54] **HEAT TREATABLE COATED ARTICLE HAVING ANTIREFLECTIVE COATING(S) ON SUBSTRATE**  
[54] **ARTICLE REVETU POUVANT ETRE TRAITÉ THERMIQUEMENT COMPORTANT UN OU PLUSIEURS REVETEMENT(S) ANTIREFLET SUR UN SUBSTRAT**  
[72] MULLER, JENS-PETER, LU  
[72] VERNHES, RICHARD, LU  
[72] SZIRBIK, ISTVAN, LU  
[72] HEGEDUS, NIKOLETT, LU  
[72] CHU, ALLEN, US  
[72] BUTZ, JOCHEN, LU  
[71] GUARDIAN GLASS, LLC, US  
[71] GUARDIAN EUROPE S.A.R.L., LU  
[85] 2024-05-21  
[86] 2023-02-16 (PCT/IB2023/051396)  
[87] (WO2023/156927)  
[30] US (17/674,082) 2022-02-17

[21] **3,238,674**  
[13] A1

[51] **Int.Cl. H04L 12/18 (2006.01) H04N 21/2187 (2011.01) H04N 21/234 (2011.01) H04N 21/262 (2011.01) H04L 65/403 (2022.01) H04N 7/15 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PRODUCING A VIDEO STREAM**  
[54] **SYSTEME ET PROCEDE DE PRODUCTION D'UN FLUX VIDEO**  
[72] BJORKMAN, ANDREAS, SE  
[72] NILSSON, ANDERS, SE  
[72] ERLMAN, LARS, SE  
[71] LIVEARENA TECHNOLOGIES AB, SE  
[85] 2024-05-21  
[86] 2022-11-07 (PCT/SE2022/051033)  
[87] (WO2023/101588)  
[30] SE (2151461-7) 2021-11-30

[21] **3,238,678**  
[13] A1

[51] **Int.Cl. H04L 12/18 (2006.01) H04N 21/2187 (2011.01) H04N 21/234 (2011.01) H04N 21/262 (2011.01) H04L 65/403 (2022.01) H04N 7/15 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PRODUCING A VIDEO STREAM**  
[54] **SYSTEME ET PROCEDE DE PRODUCTION D'UN FLUX VIDEO**  
[72] BJORKMAN, ANDREAS, SE  
[72] NILSSON, ANDERS, SE  
[72] ERLMAN, LARS, SE  
[71] LIVEARENA TECHNOLOGIES AB, SE  
[85] 2024-05-21  
[86] 2022-11-07 (PCT/SE2022/051034)  
[87] (WO2023/101589)  
[30] SE (2151461-7) 2021-11-30

[21] **3,238,681**  
[13] A1

[51] **Int.Cl. G06F 30/27 (2020.01) G05B 17/02 (2006.01)**  
[25] EN  
[54] **METHOD OF GENERATING A DIGITAL TWIN OF THE ENVIRONMENT OF INDUSTRIAL PROCESSES**  
[54] **PROCEDE DE GENERATION D'UN JUMEAU NUMERIQUE DE L'ENVIRONNEMENT DE PROCESSUS INDUSTRIELS**  
[72] YUAN, HANWEN, US  
[72] ZHANG, SANHONG, US  
[72] BREWER, GRANT, US  
[72] XU, MENGKAI, US  
[71] WATLOW ELECTRIC MANUFACTURING COMPANY, US  
[85] 2024-05-21  
[86] 2022-11-18 (PCT/US2022/050338)  
[87] (WO2023/091623)  
[30] US (63/281,952) 2021-11-22

[21] **3,238,700**  
[13] A1

[51] **Int.Cl. C07K 19/00 (2006.01) A61K 48/00 (2006.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/09 (2006.01) C12N 15/62 (2006.01)**  
[25] EN  
[54] **NEW TALE PROTEIN SCAFFOLDS WITH IMPROVED ON-TARGET/OFF-TARGET ACTIVITY RATIOS**  
[54] **NOUVEAUX ECHAFAUDAGES DE PROTEINE TALE PRESENTANT DES RAPPORTS D'ACTIVITE SUR CIBLE/HORS CIBLE AMELIORES**  
[72] DUCHATEAU, PHILIPPE, FR  
[72] JUILLERAT, ALEXANDRE, US  
[72] BOYNE, ALEX, US  
[72] KAZANCIUGLU, SELENA, US  
[71] CELLECTIS SA, FR  
[85] 2024-05-21  
[86] 2022-11-23 (PCT/EP2022/082950)  
[87] (WO2023/094435)  
[30] US (63/282,453) 2021-11-23  
[30] DK (PA202270104) 2022-03-15

[21] **3,238,701**  
[13] A1

[51] **Int.Cl. H01M 10/04 (2006.01) H01M 10/0585 (2010.01) H01M 50/209 (2021.01) H01M 50/249 (2021.01) H01M 4/04 (2006.01) H01M 10/0525 (2010.01)**  
[25] EN  
[54] **METHOD FOR DETERMINING A DEPOSITION ACCURACY OF A PLURALITY OF ELECTRODESHEETS IN A STACK AND A MEASURING DEVICE**  
[54] **METHODE POUR DETERMINER LA PRECISION DE DEPOT D'UNE PLURALITE DE FEUILLES D'ELECTRODES DANS UNE PILE ET DISPOSITIF DE MESURE**  
[72] MASUCH, STEFFEN, DE  
[72] SCHRODER, CHRISTIAN, DE  
[71] VOLKSWAGEN AKTIENGESELLSCHAFT, DE  
[85] 2024-05-21  
[86] 2022-11-18 (PCT/EP2022/082422)  
[87] (WO2023/094278)  
[30] DE (10 2021 130 653.1) 2021-11-23

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[21] **3,238,706**  
[13] A1

[51] **Int.Cl. A63F 9/12 (2006.01) A63H 33/04 (2006.01) A63H 33/26 (2006.01) A63H 7/02 (2006.01) A63H 33/10 (2006.01)**

[25] EN

[54] **PENTAHEDRAL MODULE PUZZLE**

[54] **PUZZLE A MODULES PENTAEDRIQUES**

[72] SHENG, YU, CN

[72] SCHLAPIK, KEVIN D., US

[71] SCHLAPIK, KEVIN D., US

[85] 2024-05-21

[86] 2022-12-01 (PCT/US2022/051484)

[87] (WO2023/102095)

[30] US (63/285,049) 2021-12-01

[21] **3,238,708**  
[13] A1

[51] **Int.Cl. E21B 41/00 (2006.01) F01K 23/10 (2006.01) F02B 75/12 (2006.01)**

[25] EN

[54] **EXPANDER SYSTEMS FOR HARNESSING ENERGY FROM PRESSURIZED FLUID FLOW**

[54] **SYSTEMES DE DETENDEUR DESTINE A TIRER DE L'ENERGIE D'UN ECOULEMENT DE FLUIDE SOUS PRESSION**

[72] EGELAND, KEVIN ROBERT, US

[72] FINK, JOSEPH M., US

[71] CNX RESOURCES CORPORATION, US

[85] 2024-05-21

[86] 2022-12-09 (PCT/US2022/052421)

[87] (WO2023/121892)

[30] US (17/559,343) 2021-12-22

[21] **3,238,714**  
[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61P 19/02 (2006.01)**

[25] EN

[54] **COMPOSITIONS FOR TREATING AUTOIMMUNE ARTHRITIS**

[54] **COMPOSITIONS POUR LE TRAITEMENT DE L'ARTHRITE AUTO-IMMUNE**

[72] ALONSO COHEN, MIGUEL ANGEL, ES

[72] SIDOTI, ROSSANA, IT

[72] KARNANI, BHAVNA, IT

[71] DEVINTEC SAGL, SZ

[85] 2024-05-21

[86] 2022-12-13 (PCT/EP2022/085599)

[87] (WO2023/110855)

[30] EP (21214238.4) 2021-12-14

[21] **3,238,715**  
[13] A1

[51] **Int.Cl. G06Q 30/0601 (2023.01)**

[25] EN

[54] **AUGMENTED REALITY MENU**

[54] **MENU DE REALITE AUGMENTEE**

[72] DALMAZZO, ENZO, US

[71] DALMAZZO, ENZO, US

[85] 2024-05-21

[86] 2022-11-17 (PCT/US2022/050323)

[87] (WO2023/091615)

[30] US (17/530,412) 2021-11-18

[21] **3,238,719**  
[13] A1

[51] **Int.Cl. A61B 18/04 (2006.01) A61B 18/12 (2006.01) A61B 18/18 (2006.01)**

[25] EN

[54] **ACUTE ASSESSMENT OF CARDIAC ABLATION LESIONS**

[54] **EVALUATION AIGUE DE LESIONS D'ABLATION CARDIAQUE**

[72] GIROUARD, STEVEN D., US

[72] HAGFORS, KRISTA N., US

[72] NEAL II, ROBERT E., US

[72] CASTELLVI, QUIM, US

[71] CARDIOFOCUS, INC., US

[85] 2024-05-21

[86] 2022-11-21 (PCT/US2022/050578)

[87] (WO2023/096859)

[30] US (63/282,521) 2021-11-23

[21] **3,238,720**  
[13] A1

[51] **Int.Cl. C07K 16/12 (2006.01) A23L 33/17 (2016.01) A23L 3/3526 (2006.01) A61K 39/00 (2006.01) A61P 31/04 (2006.01) C07K 19/00 (2006.01) C12N 15/13 (2006.01) C12N 15/62 (2006.01) C12P 21/00 (2006.01) G01N 33/569 (2006.01)**

[25] EN

[54] **SINGLE DOMAIN ANTIBODIES FOR PREVENTION OF CLOSTRIDIUM DIFFICILE INFECTION**

[54] **ANTICORPS A DOMAINE UNIQUE POUR LA PREVENTION D'UNE INFECTION A CLOSTRIDIUM DIFFICILE**

[72] THRANE, SANDRA WINGAARD, DK

[72] LAUSTSEN, ANDREAS HOUGAARD, DK

[72] LAUSTSEN, MADS AAGE, DK

[72] RODRIGUEZ-RODRIGUEZ, EVERARDO, DK

[71] BACTOLIFE A/S, DK

[85] 2024-05-21

[86] 2022-12-02 (PCT/EP2022/084159)

[87] (WO2023/099711)

[30] EP (21211996.0) 2021-12-02

[21] **3,238,722**  
[13] A1

[51] **Int.Cl. A61K 51/08 (2006.01) C07K 7/02 (2006.01)**

[25] EN

[54] **COMPOUNDS AND COMPOSITIONS THEREOF FOR THE TREATMENT OF CANCER**

[54] **COMPOSES ET COMPOSITIONS ASSOCIEES POUR LE TRAITEMENT DU CANCER**

[72] MCINNES, LACHLAN EION, AU

[72] HARRIS, MATTHEW JOHN, AU

[72] VAN DAM, ELLEN MARIANNE, AU

[72] BIGGIN, COLIN, AU

[71] CLARITY PHARMACUETICALS LTD, AU

[85] 2024-05-21

[86] 2022-11-24 (PCT/AU2022/051410)

[87] (WO2023/092184)

[30] AU (2021903792) 2021-11-24

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[21] **3,238,723**  
[13] A1

[51] **Int.Cl. C07C 281/02 (2006.01) C09D 175/00 (2006.01)**  
[25] EN  
[54] **CARBAZATE-FUNCTIONAL COMPOUND**  
[54] **COMPOSE A FONCTION CARBAZATE**  
[72] MAYO, MICHAEL ALLEN, US  
[72] XIAO, JING, US  
[72] DOMHOFF, ALLISON BROOKS, US  
[72] WEIS, JONATHAN GARRETT, US  
[72] ZHOU, HONGYING, US  
[72] ATMURI, ANAND KUMAR, US  
[71] PPG INDUSTRIES OHIO, INC., US  
[85] 2024-05-21  
[86] 2022-12-06 (PCT/US2022/080958)  
[87] (WO2023/107909)  
[30] US (63/288,074) 2021-12-10

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[21] **3,238,725**  
[13] A1

[51] **Int.Cl. C07C 13/04 (2006.01)**  
[25] EN  
[54] **CONSUMER APPLICATIONS FOR CYCLOPROPENE-CONTAINING COMPOSITIONS**  
[54] **APPLICATIONS DE CONSOMMATEUR POUR COMPOSITIONS CONTENANT DU CYCLOPROPENE**  
[72] LIU, LEI, US  
[72] AUST, DUNCAN, US  
[72] MACLEAN, DANIEL, US  
[72] MCCASKEY, EVAN, US  
[72] WEHMEYER, FIONA, US  
[71] AGROFRESH INC., US  
[85] 2024-05-21  
[86] 2022-11-22 (PCT/US2022/050667)  
[87] (WO2023/096881)  
[30] US (63/282,942) 2021-11-24

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[21] **3,238,729**  
[13] A1

[51] **Int.Cl. G06T 7/00 (2017.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS TO PROCESS ELECTRONIC IMAGES TO IDENTIFY ABNORMAL MORPHOLOGIES**  
[54] **SYSTEMES ET PROCEDES DE TRAITEMENT D'IMAGES ELECTRONIQUES POUR IDENTIFIER DES MORPHOLOGIES ANORMALES**  
[72] GODRICH, RAN, US  
[72] KANAN, CHRISTOPHER, US  
[71] PAIGE.AI, INC., US  
[85] 2024-05-21  
[86] 2022-10-31 (PCT/US2022/078997)  
[87] (WO2023/114577)  
[30] US (63/290,708) 2021-12-17

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[21] **3,238,724**  
[13] A1

[51] **Int.Cl. C04B 33/132 (2006.01) B09B 3/25 (2022.01) B09B 3/40 (2022.01) C04B 18/02 (2006.01) C04B 20/06 (2006.01) C04B 33/04 (2006.01) C04B 33/30 (2006.01)**  
[25] FR  
[54] **METHOD FOR PREPARING LIGHTWEIGHT AGGREGATES**  
[54] **PROCEDE DE PREPARATION DE GRANULATS LEGRS**  
[72] GAMBIER, DAVID CLAUDE, FR  
[71] SEEGEX, FR  
[85] 2024-05-21  
[86] 2022-11-21 (PCT/EP2022/082630)  
[87] (WO2023/089176)  
[30] FR (FR2112330) 2021-11-22

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[21] **3,238,727**  
[13] A1

[51] **Int.Cl. C10G 3/00 (2006.01) C10G 45/58 (2006.01)**  
[25] EN  
[54] **INTEGRATED PROCESS FOR THE MANUFACTURE OF RENEWABLE DIESEL**  
[54] **PROCEDE INTEGRE POUR LA FABRICATION DE DIESEL RENOUELABLE**  
[72] TREVIDI, KIRTAN K., US  
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US  
[85] 2024-05-21  
[86] 2022-09-08 (PCT/US2022/076086)  
[87] (WO2023/091805)  
[30] US (63/264,379) 2021-11-22

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[21] **3,238,732**  
[13] A1

[51] **Int.Cl. C12P 19/18 (2006.01) C12C 12/02 (2006.01)**  
[25] EN  
[54] **PRODUCTION OF HIGHLY ATTENUATED BEERS**  
[54] **PRODUCTION DE BIERES FORTEMENT ATTENUES**  
[72] CRAMER, JACOB FLYVHOLM, DK  
[72] MUNKSGAARD, JANNIK, DK  
[71] INTERNATIONAL N&H DENMARK APS, DK  
[85] 2024-05-21  
[86] 2022-11-22 (PCT/US2022/080289)  
[87] (WO2023/097202)  
[30] US (63/282,709) 2021-11-24

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[21] **3,238,733**  
[13] A1

[51] **Int.Cl. B02B 1/04 (2006.01)**  
[25] EN  
[54] **METHOD AND DEVICE FOR WETTING GRAIN**  
[54] **PROCEDE ET DISPOSITIF D'HUMIDIFICATION DE GRAINES**  
[72] NALBANDYAN, ARMEN VEMIROVICH, RU  
[71] NALBANDYAN, ARMEN VEMIROVICH, RU  
[85] 2024-05-21  
[86] 2022-11-18 (PCT/RU2022/000341)  
[87] (WO2023/091050)  
[30] RU (2021133641) 2021-11-18



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[21] **3,238,734**  
[13] A1

[51] **Int.Cl. C07K 7/02 (2006.01)**  
[25] EN  
[54] **CLEAVABLE RADIOLIGANDS FOR TARGETING CELL SURFACE RECEPTORS AND USES THEREOF**  
[54] **RADIOLIGANDS CLIVABLES POUR CIBLER DES RECEPTEURS DE SURFACE CELLULAIRE ET LEURS UTILISATIONS**  
[72] LIU, FA, US  
[72] DARWISH, ALLA, CA  
[71] FULL-LIFE TECHNOLOGIES HK LIMITED, HK  
[85] 2024-05-21  
[86] 2022-11-23 (PCT/US2022/050952)  
[87] (WO2023/097038)  
[30] US (63/283,361) 2021-11-26

[21] **3,238,735**  
[13] A1

[51] **Int.Cl. A61K 39/145 (2006.01) C07K 14/01 (2006.01) C07K 14/11 (2006.01) C07K 14/165 (2006.01) C07K 14/47 (2006.01) C12N 15/62 (2006.01)**  
[25] EN  
[54] **IMMUNOGENIC COMPOSITIONS AND THEIR USES**  
[54] **COMPOSITIONS IMMUNOGENES ET LEURS UTILISATIONS**  
[72] NELSON, JENNIFER A., US  
[72] CARTER, ERIK PAUL, US  
[72] MELFI, MICHAEL DONATO, US  
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US  
[85] 2024-05-21  
[86] 2022-11-23 (PCT/US2022/050908)  
[87] (WO2023/097003)  
[30] US (63/283,029) 2021-11-24

[21] **3,238,736**  
[13] A1

[51] **Int.Cl. G06Q 10/04 (2023.01) G06Q 10/083 (2023.01)**  
[25] EN  
[54] **OPTIMIZING PLACEMENT OF AN ASSET ARRAY IN A LOADING AREA**  
[54] **OPTIMISATION DU PLACEMENT D'UN RESEAU D'ACTIFS DANS UNE ZONE DE CHARGEMENT**  
[72] GROB, MARK, US  
[72] OFFENHAUSER, GEORGE, US  
[71] UNITED PARCEL SERVICE OF AMERICA, INC., US  
[85] 2024-05-21  
[86] 2022-12-22 (PCT/US2022/053857)  
[87] (WO2023/129483)  
[30] US (17/566,459) 2021-12-30

[21] **3,238,737**  
[13] A1

[51] **Int.Cl. G02B 6/38 (2006.01)**  
[25] EN  
[54] **CABLE MARKING CLIP**  
[54] **PINCE DE MARQUAGE DE CABLE**  
[72] CLAVER, NICHOLAS, US  
[72] MONTENA, NOAH, US  
[71] PPC BROADBAND INC, INC., US  
[85] 2024-05-21  
[86] 2022-11-18 (PCT/US2022/050342)  
[87] (WO2023/091626)  
[30] US (63/264,251) 2021-11-18

[21] **3,238,743**  
[13] A1

[51] **Int.Cl. H04W 12/06 (2021.01) G06Q 10/10 (2023.01) G06Q 40/08 (2012.01) G06F 21/34 (2013.01) H04L 9/40 (2022.01) G06Q 30/018 (2023.01)**  
[25] EN  
[54] **SYSTEMS AND TECHNIQUES FOR AUTHENTICATING INSURANCE CLAIMS**  
[54] **SYSTEMES ET TECHNIQUES D'AUTHENTIFICATION DE DEMANDES D'INDEMNISATION**  
[72] RULE, JEFFREY, US  
[72] MORETON, PAUL, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[85] 2024-05-21  
[86] 2022-11-23 (PCT/US2022/050890)  
[87] (WO2023/101880)  
[30] US (17/538,622) 2021-11-30

[21] **3,238,744**  
[13] A1

[51] **Int.Cl. B60N 2/60 (2006.01)**  
[25] EN  
[54] **COVER ADAPTABLE TO MOVEABLE VEHICLE SEATS**  
[54] **HOUSSE ADAPTABLE A DES SIEGES MOBILES DE VEHICULE**  
[72] UMLAUF, JAMES, US  
[71] 4KNINES, LLC, US  
[85] 2024-05-21  
[86] 2022-11-29 (PCT/US2022/051223)  
[87] (WO2023/097112)  
[30] US (17/537,241) 2021-11-29

[21] **3,238,745**  
[13] A1

[51] **Int.Cl. G01C 21/34 (2006.01) G06V 20/59 (2022.01) G08G 1/01 (2006.01) G08G 1/0968 (2006.01) H04W 12/68 (2021.01)**  
[25] EN  
[54] **INTELLIGENT TRANSPORTATION METHODS AND SYSTEMS**  
[54] **PROCEDES ET SYSTEMES DE TRANSPORT INTELLIGENTS**  
[72] CELLA, CHARLES HOWARD, US  
[72] CARDNO, ANDREW, US  
[72] PARENTI, JENNA, US  
[72] EL-TAHRY, TEYMOUR, US  
[72] BLIVEN, BRENT, US  
[72] DOBROWITSKY, JOSHUA, US  
[71] STRONG FORCE TP PORTFOLIO 2022, LLC, US  
[85] 2024-05-21  
[86] 2022-11-23 (PCT/US2022/050864)  
[87] (WO2023/096968)  
[30] US (63/282,508) 2021-11-23  
[30] US (63/291,309) 2021-12-17  
[30] US (63/299,716) 2022-01-14  
[30] US (63/302,015) 2022-01-21

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[21] **3,238,747**  
[13] A1

[51] **Int.Cl. G06Q 40/04 (2012.01) G06Q 40/06 (2012.01) G06Q 30/0202 (2023.01) G06Q 40/03 (2023.01)**

[25] EN

[54] **TRANSACTION PLATFORMS WHERE SYSTEMS INCLUDE SETS OF OTHER SYSTEMS**

[54] **PLATEFORMES DE TRANSACTION DOTEES DE SYSTEMES COMPRENANT DES ENSEMBLES D'AUTRES SYSTEMES**

[72] CELLA, CHARLES HOWARD, US

[72] CARDNO, ANDREW, US

[72] DOBROWITSKY, JOSHUA, US

[72] KELL, BRAD, US

[72] BUNIN, ANDREW, US

[72] EL-TAHRY, TEYMOUR, US

[72] SHARMA, KUNAL, US

[72] MALCHEV, HRISTO, US

[72] BLIVEN, BRENT, US

[72] CHARON, TAYLOR, US

[72] PARENTI, JENNA, US

[72] SHARP, ANDREW, US

[72] GOODMAN, BEN, US

[72] FORTIN, LEON JR., US

[72] LOCKE, ANDREW, US

[72] DESAI, MEHUL, US

[71] STRONG FORCE TX PORTFOLIO 2018, LLC, US

[85] 2024-05-21

[86] 2022-11-23 (PCT/US2022/050937)

[87] (WO2023/097026)

[30] US (63/282,502) 2021-11-23

[30] US (63/291,306) 2021-12-17

[30] US (63/299,703) 2022-01-14

[30] US (63/302,014) 2022-01-21

[30] IN (202211008634) 2022-02-18

[30] US (63/392,083) 2022-07-25

[30] US (63/381,546) 2022-10-28

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[21] **3,238,748**  
[13] A1

[51] **Int.Cl. G01B 9/02056 (2022.01) G02B 5/09 (2006.01) G02B 7/18 (2021.01) G02B 26/08 (2006.01)**

[25] EN

[54] **SELF-ALIGNING ACTIVE RETROREFLECTOR SYSTEM AND METHOD**

[54] **SYSTEME ET PROCEDE DE RETROREFLECTEUR ACTIF A AUTO-ALIGNEMENT**

[72] VISHNIA, ITAI, US

[72] HUMPHREY, MALCOLM, US

[72] ROST, MARTIN, US

[71] PLX, INC., US

[85] 2024-05-21

[86] 2022-11-09 (PCT/US2022/079550)

[87] (WO2023/102309)

[30] US (63/264,810) 2021-12-02

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[21] **3,238,749**  
[13] A1

[51] **Int.Cl. A61M 1/06 (2006.01)**

[25] EN

[54] **CONNECTOR AND METHOD OF SECURING A TUBE**

[54] **RACCORD ET PROCEDE DE FIXATION DE TUBE**

[72] GOSSINGTON, MATTHEW, GB

[72] JERVIS, ROBERT KENNETH ALEXANDER, GB

[71] MAYBORN (UK) LIMITED, GB

[85] 2024-05-21

[86] 2022-12-09 (PCT/GB2022/053144)

[87] (WO2023/105240)

[30] GB (2117909.8) 2021-12-10

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[21] **3,238,750**  
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **METHODS FOR TREATING CANCER WITH BISPECIFIC ANTI-CD3 X MUC16 ANTIBODIES AND ANTI-CTLA-4 ANTIBODIES**

[54] **METHODES DE TRAITEMENT DU CANCER AVEC DES ANTICORPS ANTI-CD3 X MUC16 BISPECIFIQUES ET DES ANTICORPS ANTI-CTLA-4**

[72] IOFFE, ELLA, US

[72] BUROVA, ELENA, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2024-05-21

[86] 2022-11-23 (PCT/US2022/050942)

[87] (WO2023/097030)

[30] US (63/282,811) 2021-11-24

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[21] **3,238,752**  
[13] A1

[51] **Int.Cl. A63B 55/10 (2006.01)**

[25] EN

[54] **APPARATUS AND SYSTEM FOR SUPPORTING A GOLF CLUB**

[54] **APPAREIL ET SYSTEME POUR SUPPORTER UN CLUB DE GOLF**

[72] NAPPE, CHRISTOPHER, US

[71] NAPPE, CHRISTOPHER, US

[85] 2024-05-21

[86] 2022-11-18 (PCT/US2022/050416)

[87] (WO2023/091671)

[30] US (17/532,211) 2021-11-22

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[21] **3,238,753**  
[13] A1

[51] **Int.Cl. B62M 1/24 (2013.01) B63H 16/18 (2006.01) B64C 31/04 (2006.01)**

[25] EN

[54] **MECHANISM FOR PROPELLING HUMAN-POWERED VEHICLES BY MEANS OF LEVERS THAT PIVOT ON A HORIZONTAL AXIS AND/OR TWO PARALLEL AND SYMMETRICAL VERTICAL AXES**

[54] **MECANISME DE PROPULSION DE VEHICULES A PROPULSION HUMAINE PAR DES LEVIERS QUI PIVOTENT SUR UN AXE HORIZONTAL ET/OU DEUX AXES VERTICAUX PARALLELES ET SYMETRIQUES**

[72] BENTERKI, MOHAMED SADEK, DZ  
[71] BENTERKI, MOHAMED SADEK, DZ  
[85] 2024-05-21  
[86] 2022-09-13 (PCT/DZ2022/050010)  
[87] (WO2023/088529)  
[30] DZ (DZ-2021-000716) 2021-11-21

[21] **3,238,754**  
[13] A1

[51] **Int.Cl. H01M 8/04537 (2016.01)**

[25] EN

[54] **APPARATUS AND METHOD FOR DETECTING OR CONTROLLING CARBON BUILDUP IN A DIRECT CARBON FUEL CELL**

[54] **APPAREIL ET PROCEDE DE DETECTION OU DE REGULATION DE L'ACCUMULATION DE CARBONE DANS UNE PILE A COMBUSTIBLE A CARBONE DIRECT**

[72] KRATSCHMAR, KENNETH WILLIAM, CA  
[71] EKONA POWER INC., CA  
[85] 2024-05-21  
[86] 2022-10-05 (PCT/CA2022/051472)  
[87] (WO2023/115192)  
[30] US (63/292,137) 2021-12-21

[21] **3,238,756**  
[13] A1

[51] **Int.Cl. C10G 1/10 (2006.01) C10G 75/04 (2006.01)**

[25] EN

[54] **PROCESSING OF STABILISED COMPOSITIONS COMPRISING OLEFINS**

[54] **TRAITEMENT DE COMPOSITIONS STABILISEES COMPRENANT DES OLEFINES**

[72] CHOFFAT, ALEXANDRINE, FR  
[72] THORET-BAUCHET, JEAN-PIERRE, BE  
[72] GUERIN, THIERRY, FR  
[72] ADAM, CINDY, BE  
[71] TOTALENERGIES ONETECH, FR  
[85] 2024-05-21  
[86] 2022-12-20 (PCT/EP2022/086919)  
[87] (WO2023/134977)  
[30] EP (22305030.3) 2022-01-13

[21] **3,238,757**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **CORONAVIRUS VACCINE**

[54] **VACCIN CONTRE LE CORONAVIRUS**

[72] MUIK, ALEXANDER, DE  
[72] PORAN, ASAF, US  
[72] SAHIN, UGUR, DE  
[72] SWANSON, KENA ANNE, US  
[72] YANG, QI, US  
[72] CAI, HUI, US  
[71] BIONTECH SE, DE  
[85] 2024-05-21  
[86] 2022-11-29 (PCT/EP2022/083740)  
[87] (WO2023/094713)  
[30] US (63/283,976) 2021-11-29  
[30] US (63/287,486) 2021-12-08  
[30] US (63/291,347) 2021-12-17  
[30] US (63/302,997) 2022-01-25  
[30] US (63/324,586) 2022-03-28  
[30] US (63/342,614) 2022-05-16  
[30] US (63/355,597) 2022-06-25  
[30] US (63/355,648) 2022-06-26  
[30] US (63/357,628) 2022-06-30  
[30] US (63/358,522) 2022-07-05  
[30] US (63/394,571) 2022-08-02  
[30] US (63/402,444) 2022-08-30  
[30] US (63/417,680) 2022-10-19  
[30] US (63/422,404) 2022-11-03  
[30] US (63/425,290) 2022-11-14

[21] **3,238,758**  
[13] A1

[51] **Int.Cl. A61K 9/127 (2006.01) A61K 47/54 (2017.01) A61K 9/51 (2006.01) A61K 31/7105 (2006.01) C07C 229/16 (2006.01) C07C 229/24 (2006.01) C07C 229/26 (2006.01)**

[25] EN

[54] **NOVEL IONIZABLE LIPIDS AND LIPID NANOPARTICLES AND METHODS OF USING THE SAME**

[54] **NOUVEAUX LIPIDES ET NANOPARTICULES LIPIDIQUES IONISABLES ET LEURS PROCEDES D'UTILISATION**

[72] BARTOLOZZI, ALESSANDRA, US  
[72] PROUDFOOT, JOHN, US  
[72] ERDMANN, ROMAN, US  
[72] ADHIKARI, ARIJIT, US  
[72] PATEL, SIDDHARTH, US  
[72] HOWE, ALAINA, US  
[72] SALERNO, DOMINICK, US  
[72] UNION, JENNIFER, US  
[71] SAIL BIOMEDICINES, INC., US  
[85] 2024-05-21  
[86] 2022-11-22 (PCT/US2022/050725)  
[87] (WO2023/091787)  
[30] US (63/264,400) 2021-11-22  
[30] US (63/264,420) 2021-11-22  
[30] US (63/322,952) 2022-03-23

[21] **3,238,759**  
[13] A1

[51] **Int.Cl. A61K 9/10 (2006.01) A61F 2/14 (2006.01) A61K 9/14 (2006.01) A61L 27/40 (2006.01) A61L 27/54 (2006.01) A61L 27/58 (2006.01) A61P 27/02 (2006.01)**

[25] EN

[54] **EXTRUDED OCULAR INSERTS OR IMPLANTS AND METHODS THEREOF**

[54] **INSERTS OU IMPLANTS OCULAIRES EXTRUDES ET PROCEDES ASSOCIES**

[72] JARRETT, PETER, US  
[72] EL-HAYEK, RAMI, US  
[72] KAHN, ERICA, US  
[72] HASWANI, DINESH, US  
[72] DICKINSON, ERIC, US  
[72] JARRETT, TIMOTHY S., US  
[72] MCGRATH, MICHAEL, US  
[71] OCULAR THERAPEUTIX, INC., US  
[85] 2024-05-21  
[86] 2022-12-06 (PCT/US2022/051993)  
[87] (WO2023/107478)  
[30] US (63/286,515) 2021-12-06  
[30] US (63/300,434) 2022-01-18

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[21] **3,238,762**  
[13] A1

[51] **Int.Cl. E04F 21/165 (2006.01)**  
[25] EN  
[54] **SELF-CLEANING DEVICE FOR APPLYING MATERIAL BETWEEN THE GROUT LINES OF TILES ON VERTICAL SURFACES**  
[54] **DISPOSITIF AUTONETTOYANT POUR APPLIQUER UN MATERIAU ENTRE LES LIGNES DE COULIS DE CARREAUX SUR DES SURFACES VERTICALES**  
[72] VERRANDO, MIRCO, IT  
[71] VERRANDO, MIRCO, IT  
[85] 2024-05-21  
[86] 2022-11-16 (PCT/EP2022/082149)  
[87] (WO2023/094241)  
[30] IT (102021000029561) 2021-11-23

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[21] **3,238,764**  
[13] A1

[51] **Int.Cl. A61K 35/74 (2015.01)**  
[25] EN  
[54] **A BACTERIA-DERIVED LIPID COMPOSITION AND USE THEREOF**  
[54] **COMPOSITION LIPIDIQUE DERIVEE DE BACTERIES ET SON UTILISATION**  
[72] PATEL, SIDDHARTH, US  
[72] HOWE, ALAINA, US  
[72] ZHANG, XIAOXUE, US  
[71] SAIL BIOMEDICINES, INC., US  
[85] 2024-05-21  
[86] 2022-11-21 (PCT/US2022/050571)  
[87] (WO2023/096858)  
[30] US (63/282,304) 2021-11-23

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[21] **3,238,765**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/70 (2006.01) A61K 47/12 (2006.01) A61K 47/20 (2006.01) A61K 47/32 (2006.01)**  
[25] EN  
[54] **MUCOSAL SUCTION PATCH AND USES THEREOF IN DRUG DELIVERY**  
[54] **TIMBRE D'ASPIRATION MUQUEUSE ET SES UTILISATIONS DANS L'ADMINISTRATION DE MEDICAMENTS**  
[72] LUO, ZHI, CN  
[72] LEROUX, JEAN-CHRISTOPHE, CH  
[72] KLEIN CERREJON, DAVID, CH  
[71] ETH ZURICH, CH  
[85] 2024-05-21  
[86] 2022-11-21 (PCT/IB2022/061233)  
[87] (WO2023/094971)  
[30] EP (21209752.1) 2021-11-23

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[21] **3,238,767**  
[13] A1

[51] **Int.Cl. F41J 2/00 (2006.01) F41J 9/14 (2006.01)**  
[25] FR  
[54] **METHOD AND DEVICE FOR REPRODUCING A HEAT SIGNATURE**  
[54] **PROCEDE ET DISPOSITIF DE RESTITUTION D'UNE EMPREINTE THERMIQUE**  
[72] ROULET, STEPHANE, FR  
[71] AGIR-D2C, FR  
[85] 2024-05-21  
[86] 2022-12-07 (PCT/EP2022/084733)  
[87] (WO2023/104857)  
[30] FR (FR2113207) 2021-12-09

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[21] **3,238,768**  
[13] A1

[51] **Int.Cl. C12N 5/073 (2010.01) G01N 33/50 (2006.01)**  
[25] EN  
[54] **METHODS, CULTURE MEDIAS AND DEVICES FOR GENERATING EMBRYOS IN VITRO FROM STEM CELLS**  
[54] **PROCEDES, SUPPORTS DE CULTURE ET DISPOSITIFS POUR GENERER DES EMBRYONS IN VITRO A PARTIR DE CELLULES SOUCHES**  
[72] ZERNICKA-GOETZ, MAGDALENA D., US  
[72] AMADEI, GIANLUCA, US  
[72] HANDFORD, CHARLOTTE, US  
[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US  
[71] CAMBRIDGE ENTERPRISE LIMITED, GB  
[85] 2024-05-21  
[86] 2022-12-13 (PCT/US2022/081424)  
[87] (WO2023/114754)  
[30] US (63/289,587) 2021-12-14

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[21] **3,238,769**  
[13] A1

[51] **Int.Cl. A61K 39/39 (2006.01) C07K 16/22 (2006.01)**  
[25] EN  
[54] **ANTI-NGF ANTIBODIES AND USES THEREOF**  
[54] **ANTICORPS ANTI-NGF ET LEURS UTILISATIONS**  
[72] BRONDYK, WILLIAM, US  
[72] WILLIS, JORDAN, US  
[72] SEVIGNY, LEILA, US  
[71] INVETX, INC., US  
[85] 2024-05-21  
[86] 2022-11-23 (PCT/US2022/080428)  
[87] (WO2023/097275)  
[30] US (63/282,590) 2021-11-23  
[30] US (63/383,173) 2022-11-10

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[21] **3,238,771**  
[13] A1

[51] **Int.Cl. C07D 417/10 (2006.01) A61K 35/17 (2015.01) A61K 31/4439 (2006.01) C07D 417/04 (2006.01) C07D 417/14 (2006.01)**

[25] EN

[54] **HETERO-ATOM CONTAINING COMPOUNDS AND USES THEREOF**

[54] **COMPOSES CONTENANT DES HETEROATOMES ET LEURS UTILISATIONS**

[72] LI, LIANSHENG, US  
[72] ZHU, XIUWEN, US  
[72] REN, PINGDA, US  
[72] DEANE, JONATHAN, US  
[72] SO, LOMON, US  
[72] LIU, YI, US  
[71] KUMQUAT BIOSCIENCES INC., US  
[85] 2024-05-21  
[86] 2022-11-22 (PCT/US2022/050777)  
[87] (WO2023/096928)  
[30] US (63/282,614) 2021-11-23  
[30] US (63/406,215) 2022-09-13

[21] **3,238,773**  
[13] A1

[51] **Int.Cl. C10K 3/04 (2006.01) C01B 3/56 (2006.01) C10K 3/06 (2006.01)**

[25] EN

[54] **PROCESSES AND APPARATUS FOR REDUCING CARBON MONOXIDE LEVELS IN A GASEOUS STREAM**

[54] **PROCEDES ET APPAREILS POUR REDUIRE LES TAUX DE MONOXYDE DE CARBONE DANS UN FLUX GAZEUX**

[72] RUSSELL, BRADLEY, US  
[71] UOP LLC, US  
[85] 2024-05-21  
[86] 2022-11-18 (PCT/US2022/080138)  
[87] (WO2023/097169)  
[30] US (17/535,173) 2021-11-24

[21] **3,238,774**  
[13] A1

[51] **Int.Cl. A47D 15/00 (2006.01) A47G 9/10 (2006.01)**

[25] EN

[54] **SLEEP ASSISTANCE DEVICE**

[54] **DISPOSITIF D'AIDE AU SOMMEIL**

[72] KOO, JINSOON, KR  
[72] CHO, EUNNIM, KR  
[71] RARAS INC., KR  
[85] 2024-05-21  
[86] 2022-07-18 (PCT/KR2022/010408)  
[87] (WO2023/096061)  
[30] KR (20-2021-0003567) 2021-11-24

[21] **3,238,775**  
[13] A1

[51] **Int.Cl. C12M 1/00 (2006.01) C12M 3/00 (2006.01)**

[25] EN

[54] **PROFILE AND MODULE FOR USE IN PHOTOBIOREACTOR**

[54] **PROFIL ET MODULE DESTINES A ETRE UTILISES DANS UN PHOTOBIOREACTEUR**

[72] BUSCH-LARSEN, HENRIK, DK  
[72] NORSKER, NIELS-HENRIK, DK  
[72] LARSEN, ROBERT, DK  
[72] KJOLBY, CHRISTIAN, DK  
[71] ALGIECEL APS, DK  
[85] 2024-05-21  
[86] 2022-11-22 (PCT/EP2022/082818)  
[87] (WO2023/094382)  
[30] DK (PA202101111) 2021-11-23  
[30] DK (PA202200479) 2022-05-20

[21] **3,238,778**  
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) C07K 14/47 (2006.01) C12N 7/00 (2006.01) C12N 9/12 (2006.01) C12N 9/22 (2006.01) C12N 9/78 (2006.01) C12N 15/10 (2006.01) C12N 15/11 (2006.01)**

[25] EN

[54] **SELF-ASSEMBLING VIRUS-LIKE PARTICLES FOR DELIVERY OF NUCLEIC ACID PROGRAMMABLE FUSION PROTEINS AND METHODS OF MAKING AND USING SAME**

[54] **PARTICULES DE TYPE VIRUS A AUTO-ASSEMBLAGE POUR ADMINISTRATION DE PROTEINES DE FUSION PROGRAMMABLES PAR ACIDE NUCLEIQUE ET LEURS METHODES DE FABRICATION ET D'UTILISATION**

[72] LIU, DAVID R., US  
[72] BANSKOTA, SAMAGYA, US  
[71] THE BROAD INSTITUTE, INC., US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2024-05-21  
[86] 2022-12-02 (PCT/US2022/080834)  
[87] (WO2023/102537)  
[30] US (63/285,995) 2021-12-03  
[30] US (63/298,621) 2022-01-11

[21] **3,238,779**  
[13] A1

[51] **Int.Cl. H01L 31/0475 (2014.01) H01L 31/05 (2014.01)**

[25] EN

[54] **PHOTOVOLTAIC CELLS**

[54] **CELLULES PHOTOVOLTAIQUES**

[72] SCHNELLER, ERIC, US  
[72] DILORENZO, PAOLO, BE  
[72] MOHAMMADNEZHAD, MAHYAR, CA  
[72] ALEXANDER, MICHAEL DUANE, US  
[72] SUEZ, ITAI, CA  
[72] WILLIAMS, JOSHUA, US  
[71] SILFAB SOLAR INC., CA  
[85] 2024-05-21  
[86] 2022-11-21 (PCT/IB2022/061235)  
[87] (WO2023/089584)  
[30] US (63/264,381) 2021-11-22

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[21] **3,238,781**  
[13] A1

[51] **Int.Cl. C07D 471/04 (2006.01) A61K 31/437 (2006.01) A61K 31/444 (2006.01) C07D 471/10 (2006.01) C07D 497/04 (2006.01) C07D 498/14 (2006.01)**

[25] EN

[54] **COMPOUNDS AS BCL-2 INHIBITORS**

[54] **COMPOSES UTILISES EN TANT QU'INHIBITEURS DE BCL-2**

[72] LIU, HONGBIN, CN

[72] XU, HUA, CN

[72] ZHANG, WEIPENG, CN

[72] TAN, RUI, CN

[72] YU, JINHUA, CN

[72] WANG, YUNLING, CN

[72] QI, YANGLI, CN

[72] RONG, YUE, CN

[72] HUANG, ZHUO, CN

[72] CHEN, LING, CN

[72] ZHOU, CHENGLIN, CN

[72] JIANG, LIHUA, CN

[72] LIN, SHU, US

[72] ZHAO, XINGDONG, CN

[72] WANG, WEIBO, US

[71] FOCHON BIOSCIENCES, LTD., CN

[85] 2024-05-21

[86] 2022-11-10 (PCT/CN2022/131173)

[87] (WO2023/088167)

[30] US (63/281,671) 2021-11-20

[30] US (63/291,571) 2021-12-20

[30] US (63/298,647) 2022-01-12

[30] US (63/311,456) 2022-02-18

[30] CN (PCT/CN2022/093590) 2022-05-18

[30] CN (PCT/CN2022/105531) 2022-07-13

[30] CN (PCT/CN2022/110609) 2022-08-05

[21] **3,238,782**  
[13] A1

[51] **Int.Cl. H04L 61/3015 (2022.01) H04L 9/40 (2022.01) H04L 61/4511 (2022.01) H04L 61/4535 (2022.01) H04L 61/5076 (2022.01) H04L 65/00 (2022.01) H04L 67/104 (2022.01) H04L 67/14 (2022.01)**

[25] EN

[54] **DOMAIN COMMUNICATION SYSTEM**

[54] **SYSTEME DE COMMUNICATION DE DOMAINE**

[72] DE MELO, RUI RODRIGO CABRAL PACHECO, US

[72] DO CARMO MENESES OLIVEIRA, NUNO MARTINO, PT

[72] GUEDES, JOAO HENRIQUE MARTINS FERREIRA, PT

[72] NETO, ALEXANDRE JENSEN CUNHA, PT

[72] SOARES, MANUEL ALBERTO DUARTE, PT

[72] BAPTISTA, BARBARA FRANCISCO SOUSA, PT

[72] MARTINHO, AFONSO VIEIRA CAMPOS LECA, PT

[71] NAMECHEAP, INC., US

[85] 2024-05-21

[86] 2022-11-21 (PCT/US2022/050638)

[87] (WO2023/091770)

[30] US (63/282,054) 2021-11-22

[30] US (17/990,622) 2022-11-18

[21] **3,238,783**  
[13] A1

[51] **Int.Cl. G16B 25/10 (2019.01) G16B 20/30 (2019.01) G06N 3/08 (2023.01)**

[25] EN

[54] **DEEP LEARNING METHODS FOR BIOSYNTHETIC GENE CLUSTER DISCOVERY**

[54] **PROCEDES D'APPRENTISSAGE PROFOND POUR LA DECOUVERTE DE GROUPES DE GENES BIOSYNTHETIQUES**

[72] HADJITHOMAS, MICHALIS, US

[72] DING, MICHAEL QI, US

[72] DIMUCCI, DEMETRIUS MICHAEL, US

[72] ZHANG, NANCY ANN, US

[72] MCFADYEN, IAIN JAMES, US

[72] VERDINE, GREG, US

[71] LIFEMINE THERAPEUTICS, INC., US

[85] 2024-05-21

[86] 2022-11-23 (PCT/US2022/080447)

[87] (WO2023/097290)

[30] US (63/282,451) 2021-11-23

[21] **3,238,784**  
[13] A1

[51] **Int.Cl. C07K 1/107 (2006.01) C07K 16/28 (2006.01)**

[25] EN

[54] **STAPLED PEPTIDE-ANTIBODY CONJUGATES (SPACS) AND USES THEREOF**

[54] **CONJUGUES PEPTIDE AGRAFE-ANTICORPS (SPAC) ET LEURS UTILISATIONS**

[72] MOURTADA, RIDA, US

[72] COHEN, DANIEL T., US

[72] BAJACAN, JOHN ERNEST VALLARTA, US

[71] LYTICA THERAPEUTICS, INC., US

[85] 2024-05-21

[86] 2022-12-09 (PCT/US2022/052358)

[87] (WO2023/107674)

[30] US (63/288,498) 2021-12-10

[30] US (63/321,968) 2022-03-21

[30] US (63/353,275) 2022-06-17

[21] **3,238,785**  
[13] A1

[51] **Int.Cl. C22B 3/02 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **METHOD, SYSTEM, AND DEVICES FOR WATER, ORGANICS, AND/OR MINERAL RECOVERY**

[54] **PROCEDE, SYSTEME ET DISPOSITIFS POUR LA RECUPERATION D'EAU, DE MATIERES ORGANIQUES ET/OU DE MINERAUX**

[72] ZHENG, SUNXIANG, US

[72] CHEN, XI, US

[72] REN, ZHIYONG JASON, US

[71] THE TRUSTEES OF PRINCETON UNIVERSITY, US

[85] 2024-05-21

[86] 2022-11-23 (PCT/US2022/050915)

[87] (WO2023/097008)

[30] US (63/282,429) 2021-11-23

[30] US (63/335,766) 2022-04-28

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[21] <b>3,238,786</b> [13] A1	[21] <b>3,238,788</b> [13] A1	[21] <b>3,238,790</b> [13] A1
<p>[51] <b>Int.Cl. B61K 1/00 (2006.01) B61K 5/00 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>LASER ALIGNMENT SYSTEM FOR RAILCAR MOVER AND METHOD OF USE</b></p> <p>[54] <b>SYSTEME D'ALIGNEMENT LASER POUR DISPOSITIF DE DEPLACEMENT DE VEHICULE FERROVIAIRE ET PROCEDE D'UTILISATION</b></p> <p>[72] MATTIOLI, MARCO, IT</p> <p>[71] ZEPHIR S.P.A., IT</p> <p>[85] 2024-05-21</p> <p>[86] 2022-11-22 (PCT/IB2022/061287)</p> <p>[87] (WO2023/089595)</p> <p>[30] US (63/281,982) 2021-11-22</p>	<p>[51] <b>Int.Cl. A23L 33/135 (2016.01) A61K 35/744 (2015.01) A61K 35/747 (2015.01) A61P 15/12 (2006.01) A61P 19/10 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>METHODS AND COMPOSITIONS FOR TREATING MUSCULOSKELETAL DISEASES, TREATING INFLAMMATION, AND MANAGING SYMPTOMS OF MENOPAUSE</b></p> <p>[54] <b>METHODES ET COMPOSITIONS POUR LE TRAITEMENT DE MALADIES MUSCULO-SQUELETTIQUES, LE TRAITEMENT D'UNE INFLAMMATION ET LA PRISE EN CHARGE DE SYMPTOMES DE LA MENOPAUSE</b></p> <p>[72] SCHOTT, ERIC MICHAEL, US</p> <p>[72] SOTO-GIRON, MARIA JULIANA, US</p> <p>[72] TOLEDO, GERARDO V., US</p> <p>[71] SOLAREA BIO, INC., US</p> <p>[85] 2024-05-21</p> <p>[86] 2022-11-22 (PCT/US2022/080362)</p> <p>[87] (WO2023/092150)</p> <p>[30] US (63/282,155) 2021-11-22</p> <p>[30] US (63/382,666) 2022-11-07</p>	<p>[51] <b>Int.Cl. A24F 40/60 (2020.01)</b></p> <p>[25] EN</p> <p>[54] <b>DISPLAY FOR AEROSOL-PROVISION DEVICE AND SYSTEM</b></p> <p>[54] <b>DISPOSITIF D'AFFICHAGE POUR DISPOSITIF ET SYSTEME DE FOURNITURE D'AEROSOL</b></p> <p>[72] AL-AMIN, MOHAMMED, GB</p> <p>[72] WOODCOCK, DOMINIC, GB</p> <p>[71] NICOVENTURES TRADING LIMITED, GB</p> <p>[85] 2024-05-21</p> <p>[86] 2022-11-08 (PCT/GB2022/052819)</p> <p>[87] (WO2023/094791)</p> <p>[30] GB (2117068.3) 2021-11-26</p>
[21] <b>3,238,787</b> [13] A1	[21] <b>3,238,789</b> [13] A1	[21] <b>3,238,809</b> [13] A1
<p>[51] <b>Int.Cl. G01N 33/543 (2006.01) G01N 33/68 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PARTICLE-BASED ISOLATION OF PROTEINS AND OTHER ANALYTES</b></p> <p>[54] <b>ISOLEMENT A BASE DE PARTICULES DE PROTEINES ET D'AUTRES ANALYTES</b></p> <p>[72] ROBINSON, JULIA K., US</p> <p>[72] AKSEL, TURAL, US</p> <p>[71] NAUTILUS SUBSIDIARY, INC., US</p> <p>[85] 2024-05-21</p> <p>[86] 2022-11-22 (PCT/US2022/080322)</p> <p>[87] (WO2023/102336)</p> <p>[30] US (63/284,483) 2021-11-30</p>	<p>[51] <b>Int.Cl. A24F 40/60 (2020.01) G06F 1/3231 (2019.01) G06F 1/3234 (2019.01)</b></p> <p>[25] EN</p> <p>[54] <b>DISPLAY CONTROL FOR AN AEROSOL-GENERATING DEVICE</b></p> <p>[54] <b>COMMANDE D'AFFICHAGE POUR UN DISPOSITIF DE GENERATION D'AEROSOL</b></p> <p>[72] AL-AMIN, MOHAMMED, GB</p> <p>[72] RUSHFORTH, DAVID, GB</p> <p>[71] NICOVENTURES TRADING LIMITED, GB</p> <p>[85] 2024-05-21</p> <p>[86] 2022-11-08 (PCT/GB2022/052818)</p> <p>[87] (WO2023/094790)</p> <p>[30] GB (2117070.9) 2021-11-26</p>	<p>[51] <b>Int.Cl. C22B 26/12 (2006.01) C22B 3/06 (2006.01) C22B 3/44 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>SELECTIVE LITHIUM EXTRACTION CHEMISTRY FOR GEOTHERMAL BRINE</b></p> <p>[54] <b>CHIMIE SELECTIVE D'EXTRACTION DE LITHIUM POUR SAUMURE GEOTHERMIQUE</b></p> <p>[72] MURUGESAN, SANKARAN, US</p> <p>[72] FELIPE, MARY JANE LEGASPI, US</p> <p>[72] WEERS, JERRY J., US</p> <p>[72] UGONO, ONOME, US</p> <p>[72] EKOUE-KOVI, KEKELI A., US</p> <p>[72] PINAPPU, SAI REDDY, US</p> <p>[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US</p> <p>[85] 2024-05-22</p> <p>[86] 2022-11-30 (PCT/US2022/051429)</p> <p>[87] (WO2023/102064)</p> <p>[30] US (17/538,858) 2021-11-30</p>

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[21] **3,238,811**  
[13] A1

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/04 (2006.01)**

[25] EN

[54] **TORQUE MECHANISM FOR BRIDGE PLUG**

[54] **MECANISME DE COUPLE POUR BOUCHON PROVISOIRE**

[72] SOSA, ANDRES, US

[72] CULLUM, JASON, US

[72] RABALAIS, DAVID, US

[72] OBERG, LEVI, US

[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US

[85] 2024-05-22

[86] 2022-11-17 (PCT/US2022/050271)

[87] (WO2023/101830)

[30] US (17/538,905) 2021-11-30

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[21] **3,238,814**  
[13] A1

[51] **Int.Cl. B61L 3/00 (2006.01) B61L 15/00 (2006.01)**

[25] EN

[54] **SYSTEM AND METHOD FOR COORDINATION OF ACCELERATION VALUES OF LOCOMOTIVES IN A TRAIN CONSIST**

[54] **SYSTEME ET PROCEDE DE COORDINATION DE VALEURS D'ACCELERATION DE LOCOMOTIVES DANS UN TRAIN**

[72] BRAND, JOHN WILLIAM, US

[72] GOFORTH, THOMAS WADE, US

[72] SEVEL, EVAN PAUL, US

[71] PROGRESS RAIL SERVICES CORPORATION, US

[85] 2024-05-22

[86] 2022-11-16 (PCT/US2022/050019)

[87] (WO2023/096790)

[30] US (17/535,364) 2021-11-24

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[21] **3,238,817**  
[13] A1

[51] **Int.Cl. B60L 5/42 (2006.01) B60L 50/53 (2019.01)**

[25] EN

[54] **CONCENTRIC CONDUCTOR**

[54] **CONDUCTEUR CONCENTRIQUE**

[72] STRASHNY, IGOR, US

[72] HAMILLA, ANDREW, US

[71] CATERPILLAR INC., US

[85] 2024-05-22

[86] 2022-11-22 (PCT/US2022/080286)

[87] (WO2023/097199)

[30] US (17/535,075) 2021-11-24

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[21] **3,238,819**  
[13] A1

[51] **Int.Cl. H01R 25/14 (2006.01) H01R 24/38 (2011.01) B60L 5/24 (2006.01)**

[25] EN

[54] **SLIDABLE NESTED CONDUCTORS**

[54] **CONDUCTEURS EMBOITES COULISSANTS**

[72] STRASHNY, IGOR, US

[71] CATERPILLAR INC., US

[85] 2024-05-22

[86] 2022-11-16 (PCT/US2022/050018)

[87] (WO2023/096789)

[30] US (17/456,479) 2021-11-24

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[21] **3,238,821**  
[13] A1

[51] **Int.Cl. B22D 41/34 (2006.01)**

[25] EN

[54] **SLIDING NOZZLE APPARATUS**

[54] **APPAREIL A BUSE COULISSANTE**

[72] IMAHASE, TOSHIHIRO, JP

[72] OTSUKA, AKIRA, JP

[72] FUJIMOTO, TAKESHI, JP

[71] KROSAKIHARIMA CORPORATION, JP

[85] 2024-05-22

[86] 2023-01-12 (PCT/JP2023/000628)

[87] (WO2023/145464)

[30] JP (2022-010447) 2022-01-26

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[21] **3,238,822**  
[13] A1

[51] **Int.Cl. C07F 9/10 (2006.01) A61K 31/683 (2006.01) A61K 31/685 (2006.01) A61P 29/00 (2006.01) C07F 9/09 (2006.01)**

[25] EN

[54] **COMPOUND, RACEMATE OF SAID COMPOUND, SALT OF SAID COMPOUND OR SAID RACEMATE, COMPOSITION, ANTI-INFLAMMATORY AGENT, THERAPEUTIC AGENT FOR DEMENTIA, AND THERAPEUTIC AGENT FOR RETT SYNDROM**

[54] **COMPOSE, RACEMATE DU COMPOSE, SEL DU COMPOSE OU DU RACEMATE, COMPOSITION, AGENT ANTI-INFLAMMATOIRE, AGENT THERAPEUTIQUE POUR LA DEMENCE, ET AGENT THERAPEUTIQUE POUR LE SYNDROME DE RETT**

[72] FUJINO, TAKEHIKO, JP

[72] MAWATARI, SHIRO, JP

[72] OKAUCHI, TATSUO, JP

[72] NIWASE, SHAMIM, JP

[72] HONSHO, MASANORI, JP

[72] NAKASHIMA, KINICHI, JP

[72] NAKASHIMA, HIDEYUKI, JP

[71] INSTITUTE OF RHEOLOGICAL FUNCTION OF FOODS CO., LTD., JP

[71] KYUSHU UNIVERSITY, NATIONAL UNIVERSITY CORPORATION, JP

[85] 2024-05-22

[86] 2022-10-11 (PCT/JP2022/037816)

[87] (WO2023/089986)

[30] JP (2021-189168) 2021-11-22



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[21] **3,238,836**  
[13] A1

[51] **Int.Cl. G06Q 50/06 (2012.01) G06Q 10/04 (2023.01) G06N 20/00 (2019.01) G06F 18/213 (2023.01) G06F 18/214 (2023.01) G06F 18/2453 (2023.01)**

[25] EN

[54] **AI-BASED ENERGY EDGE PLATFORM, SYSTEMS, AND METHODS**

[54] **PLATEFORME PERIPHERIQUE D'ENERGIE A BASE D'IA, SYSTEMES ET PROCEDES**

[72] CARDNO, ANDREW, US

[72] CELLA, CHARLES H., US

[71] **STRONG FORCE EE PORTFOLIO 2022, LLC, US**

[85] 2024-05-22

[86] 2022-11-23 (PCT/US2022/050924)

[87] (WO2023/097016)

[30] US (63/282,510) 2021-11-23

[30] US (63/291,311) 2021-12-17

[30] US (63/299,727) 2022-01-14

[30] US (63/302,016) 2022-01-21

[30] US (63/375,225) 2022-09-10

[21] **3,238,839**  
[13] A1

[51] **Int.Cl. C11D 3/386 (2006.01)**

[25] EN

[54] **HOME CARE COMPOSITION**

[54] **COMPOSITION DE SOINS A DOMICILE**

[72] BELL-RUSIEWICZ, KATARZYNA DOROTA, GB

[72] JACKSON, MICHELLE, GB

[72] MORALES GARCIA, ANA L., GB

[72] BHATE, MANASI, US

[72] CHAN, AMANDA, US

[72] CHAN, HON KIT, US

[72] LASSILA, JONATHAN, US

[72] LEEFLANG, CHRIS, NL

[72] RAMER, SANDRA W., US

[72] TRAN, PATRICIA, US

[71] **THE PROCTER & GAMBLE COMPANY, US**

[85] 2024-05-22

[86] 2022-12-14 (PCT/US2022/081482)

[87] (WO2023/114793)

[30] US (63/290,099) 2021-12-16

[30] US (63/290,106) 2021-12-16

[21] **3,238,927**  
[13] A1

[51] **Int.Cl. C09D 5/00 (2006.01) B05B 12/20 (2018.01) C23C 14/04 (2006.01) C23C 16/04 (2006.01) H01L 21/00 (2006.01)**

[25] EN

[54] **OPTO-ELECTRONIC DEVICE COMPRISING A PATTERNING COATING COMPRISING A PLURALITY OF MATERIALS**

[54] **DISPOSITIF OPTOELECTRONIQUE COMPRENANT UN REVETEMENT DE FORMATION DE MOTIF COMPRENANT UNE PLURALITE DE MATERIAUX**

[72] HELANDER, MICHAEL, CA

[72] WANG, ZHIBIN, CA

[72] CHANG, YI-LU, CA

[72] WANG, QI, CA

[71] **OTI LUMIONICS INC., CA**

[85] 2024-05-22

[86] 2022-12-14 (PCT/IB2022/062254)

[87] (WO2023/111919)

[30] US (63/289,599) 2021-12-14

[30] US (63/392,464) 2022-07-26

[30] US (63/396,190) 2022-08-08

[30] US (63/398,193) 2022-08-15

[30] US (63/419,275) 2022-10-25

[21] **3,238,940**  
[13] A1

[51] **Int.Cl. A61K 39/395 (2006.01) A61K 31/52 (2006.01) A61K 31/5377 (2006.01) A61K 31/573 (2006.01) A61P 25/00 (2006.01) A61P 37/06 (2006.01) A61P 43/00 (2006.01)**

[25] EN

[54] **TREATMENT OF A DEMYELINATING DISEASE OF THE CENTRAL NERVOUS SYSTEM (CNS) WITH SATRALIZUMAB**

[54] **TRAITEMENT D'UNE MALADIE DEMYELINISANTE DU SYSTEME NERVEUX CENTRAL (SNC) PAR DU SATRALIZUMAB**

[72] OZAWA, TAKATOSHI, JP

[72] YAMASHIRO, MAI, JP

[72] ITO, HAJIME, JP

[72] YOSHIDA, SHUNSUKE, JP

[72] SMITH, JILLIAN, GB

[72] VODOPIVEC, IVANA, CH

[72] LENNON-CHRIMES, SIAN, GB

[72] KLINGELSCHEMITT, GAELLE, CH

[72] VON BUEDINGEN, HANS-CHRISTIAN, CH

[72] SILBER BAUMANN, HANNA, CH

[71] **CHUGAI SEIYAKU KABUSHIKI KAISHA, JP**

[71] **F. HOFFMANN-LA ROCHE AG, CH**

[85] 2024-05-22

[86] 2022-10-25 (PCT/JP2022/039605)

[87] (WO2023/095510)

[30] JP (PCT/JP2021/043459) 2021-11-26

## PCT Applications Entering the National Phase

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[21] **3,238,941**  
[13] A1

[51] **Int.Cl. A61K 41/00 (2020.01) A61K 31/42 (2006.01) A61P 25/00 (2006.01) C07D 261/04 (2006.01)**

[25] EN

[54] **ADJUNCTIVE D-CYCLOSERINE AUGMENTATION OF TRANSCRANIAL MAGNETIC STIMULATION (TMS) THERAPY FOR OBSESSIVE COMPULSIVE DISORDER**

[54] **AUGMENTATION DE LA D-CYCLOSERINE COMPLEMENTAIRE A LA STIMULATION MAGNETIQUE TRANSCRANIENNE (SMT) DANS LE TRAITEMENT DES TROUBLES OBSESSIONNELS COMPULSIFS**

[72] MCGIRR, ALEXANDER ROBERT ANGUS, CA

[71] MCGRX CORP., CA

[85] 2024-05-22

[86] 2022-11-21 (PCT/CA2022/051708)

[87] (WO2023/092219)

[30] US (63/282,297) 2021-11-23

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[21] **3,238,942**  
[13] A1

[51] **Int.Cl. A61K 47/60 (2017.01) A61K 47/69 (2017.01)**

[25] EN

[54] **CANCER TREATMENTS WITH TLR7/8 AGONISTS**

[54] **NOUVEAUX TRAITEMENTS DU CANCER AVEC DES AGONISTES DE TLR7/8**

[72] MILLER BREINHOLT, VIBEKE, DK

[72] SINGEL, STINA, US

[71] ASCENDIS PHARMA ONCOLOGY DIVISION A/S, DK

[85] 2024-05-22

[86] 2022-12-12 (PCT/EP2022/085347)

[87] (WO2023/110727)

[30] US (63/288,957) 2021-12-13

[30] EP (22205987.5) 2022-11-08

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[21] **3,238,943**  
[13] A1

[51] **Int.Cl. A61K 33/44 (2006.01) C01B 32/05 (2017.01) A61P 31/00 (2006.01) A61P 31/04 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01) A61P 31/20 (2006.01)**

[25] EN

[54] **NEW ANTI MICROBIAL CARBON DOTS**

[54] **NOUVEAUX POINTS DE CARBONE ANTIMICROBIENS**

[72] DE FORNI, DAVIDE, IT

[72] PODDIGHE, MATTEO, IT

[72] STAGI, LUIGI, IT

[72] INNOCENZI, PLINIO, IT

[72] MALFATTI, LUCA, IT

[71] FONDAZIONE CENTRO SERVIZI ALLA PERSONA, IT

[71] ECOAIDA S.R.L., IT

[71] INNOCENZI, PLINIO, IT

[71] MALFATTI, LUCA, IT

[85] 2024-05-22

[86] 2022-11-23 (PCT/IB2022/061324)

[87] (WO2023/095013)

[30] IT (102021000029591) 2021-11-23

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[21] **3,238,946**  
[13] A1

[51] **Int.Cl. H01M 4/66 (2006.01)**

[25] EN

[54] **MODIFIED CURRENT COLLECTOR FOR SECONDARY BATTERY**

[54] **COLLECTEUR DE COURANT MODIFIE POUR BATTERIE SECONDAIRE**

[72] HO, KAM PIU, CN

[72] JIANG, YINGKAI, CN

[72] HUEN, PRISCILLA, CN

[71] GRST INTERNATIONAL LIMITED, CN

[85] 2024-05-22

[86] 2021-12-02 (PCT/CN2021/134986)

[87] (WO2023/097594)

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[21] **3,238,951**  
[13] A1

[51] **Int.Cl. G01S 13/90 (2006.01)**

[25] EN

[54] **MULTI-SPOT IMAGING USING SYNTHETIC APERTURE RADAR**

[54] **IMAGERIE MULTIPOINT A L'AIDE D'UN RADAR A OUVERTURE SYNTHETIQUE**

[72] THOMPSON, ALAN, FI

[72] LAURILA, PEKKA, FI

[72] MODRZEWSKI, RAFAL, FI

[71] ICEYE OY, FI

[85] 2024-05-22

[86] 2022-12-05 (PCT/EP2022/084407)

[87] (WO2023/117391)

[30] GB (2118747.1) 2021-12-22

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[21] **3,238,975**  
[13] A1

[51] **Int.Cl. A61K 9/14 (2006.01) A61K 31/661 (2006.01) A61K 38/17 (2006.01) A61P 25/28 (2006.01) C07K 14/775 (2006.01)**

[25] EN

[54] **NOVEL RECONSTITUTED HIGH DENSITY LIPOPROTEIN NANOPARTICLE**

[54] **NOUVELLE NANOPARTICULE DE LIPOPROTEINE A HAUTE DENSITE RECONSTITUEE**

[72] RHO, HOON SUK, KR

[72] KIM, HYUCK, KR

[71] MEPSGEN CO., LTD., KR

[85] 2024-05-23

[86] 2022-12-06 (PCT/KR2022/019747)

[87] (WO2023/106807)

[30] KR (10-2021-0173303) 2021-12-06

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[21] **3,238,981**  
[13] A1

[51] **Int.Cl. B62D 55/12 (2006.01) B62D 55/07 (2006.01) B62D 55/125 (2006.01)**

[25] EN

[54] **DRIVE ASSEMBLY FOR ELECTRIC SNOWMOBILE**

[54] **ENSEMBLE D'ENTRAINEMENT POUR MOTONEIGE ELECTRIQUE**

[72] LEBOEUF, FRANCOIS, CA

[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA

[85] 2024-05-23

[86] 2023-06-29 (PCT/IB2023/056778)

[87] (WO2024/003829)

[30] US (63/356,839) 2022-06-29

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[21] **3,238,982**  
[13] A1

[51] **Int.Cl. F01P 7/16 (2006.01)**  
[25] EN  
[54] **COOLING AND HEATING SYSTEM FOR ELECTRIC SNOWMOBILE**  
[54] **SYSTEME DE REFROIDISSEMENT ET DE CHAUFFAGE POUR UNE MOTONEIGE ELECTRIQUE**  
[72] DRIANT, THOMAS, CA  
[72] BOURQUE, YANNICK, CA  
[72] NOEL, ANTOINE, CA  
[71] BOMBARDIER RECREATIONAL PRODUCT INC., CA  
[85] 2024-05-23  
[86] 2023-06-29 (PCT/IB2023/056782)  
[87] (WO2024/003832)  
[30] US (63/356,849) 2022-06-29

[21] **3,238,988**  
[13] A1

[51] **Int.Cl. D21H 17/28 (2006.01) D21H 19/38 (2006.01) D21H 19/54 (2006.01) D21H 19/82 (2006.01) D21H 19/84 (2006.01)**  
[25] EN  
[54] **STARCH-COATED PAPER OR PAPERBOARD**  
[54] **PAPIER OU CARTON REVETUS D'AMIDON**  
[72] LARSSON, JOHAN, SE  
[71] BILLERUD AKTIEBOLAG (PUBL), SE  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/EP2022/083031)  
[87] (WO2023/094476)  
[30] EP (21210830.2) 2021-11-26

[21] **3,238,989**  
[13] A1

[51] **Int.Cl. A23L 2/38 (2021.01) A61K 8/36 (2006.01) A61K 31/00 (2006.01) A61K 31/192 (2006.01) A61K 31/235 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01)**  
[25] EN  
[54] **A PHARMACEUTICAL FORMULATION AND A PROCESS FOR ITS PREPARATION**  
[54] **FORMULATION PHARMACEUTIQUE ET SON PROCEDE DE PREPARATION**  
[72] PADMANABHAN, SRIRAM, IN  
[72] JADHAV, VINOD RAMCHANDRA, AE  
[71] SAVA HEALTHCARE LTD, IN  
[85] 2024-05-23  
[86] 2022-03-30 (PCT/IB2022/052935)  
[87] (WO2023/099968)  
[30] IN (202121055757) 2021-12-01

[21] **3,238,993**  
[13] A1

[51] **Int.Cl. A61K 35/66 (2015.01) A61K 35/741 (2015.01) A61K 35/38 (2015.01)**  
[25] EN  
[54] **GENETICALLY MODIFIED MICROORGANISM AND USE THEREOF**  
[54] **MICRO-ORGANISME GENETIQUEMENT MODIFIE ET SON UTILISATION**  
[72] GUO, YUQI, CN  
[72] YANG, GUOXUE, CN  
[72] XIANG, BIN, CN  
[71] COMBIO THERAPEUTICS CO., LTD., CN  
[85] 2024-05-23  
[86] 2022-11-28 (PCT/CN2022/134672)  
[87] (WO2023/093883)  
[30] CN (202111420763.8) 2021-11-26

[21] **3,238,996**  
[13] A1

[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61K 31/7125 (2006.01) A61K 48/00 (2006.01)**  
[25] EN  
[54] **TREATMENT OF FGG RELATED DISEASES AND DISORDERS**  
[54] **TRAITEMENT DE MALADIES ET DE TROUBLES LIES AU FGG**  
[72] GOTTESMAN, OMRI, US  
[72] BRUSE, SHANNON, US  
[72] CAJES, BRIAN, US  
[72] LEWIS, DAVID, US  
[72] ROZEMA, DAVID, US  
[72] VEKICH, JOHN, US  
[71] EMPIRICO INC., US  
[85] 2024-05-23  
[86] 2022-12-05 (PCT/US2022/080933)  
[87] (WO2023/107896)  
[30] US (63/286,393) 2021-12-06

[21] **3,238,998**  
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) C01B 3/56 (2006.01)**  
[25] EN  
[54] **IMPROVING THE ENERGY EFFICIENCY OF A PROCESS AND PLANT FOR PRODUCING HYDROGEN**  
[54] **AMELIORATION DE L'EFFICACITE ENERGETIQUE D'UN PROCEDE ET INSTALLATION DE PRODUCTION D'HYDROGENE**  
[72] CHRISTENSEN, STEFFEN SPANGSBERG, DK  
[72] WIX, CHRISTIAN, DK  
[71] TOPSOE A/S, DK  
[85] 2024-05-23  
[86] 2022-11-22 (PCT/EP2022/082733)  
[87] (WO2023/094357)  
[30] DK (PA 2021 01126) 2021-11-26

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[21] **3,239,000**  
[13] A1

[51] **Int.Cl. C04B 35/101 (2006.01) C04B 35/106 (2006.01)**  
[25] EN  
[54] **REFRACTORY PRODUCT AND ITS USE**  
[54] **PRODUIT REFRACTAIRE ET SON UTILISATION**  
[72] LARSEN, JOHANNES RUBEN, DK  
[72] BRUNK, FRED, DE  
[71] TOPSOE A/S, DK  
[71] RHI MAGNESITA BOCHUM GMBH, DE  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/EP2022/082953)  
[87] (WO2023/094437)  
[30] DK (PA202101121) 2021-11-26

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[21] **3,239,003**  
[13] A1

[51] **Int.Cl. E01H 5/06 (2006.01)**  
[25] EN  
[54] **FRONT SHOVEL OF SNOW BLOWER**  
[54] **PELLE AVANT DE SOUFFLEUSE A NEIGE**  
[72] SCHERMEL, WILLIAM, CA  
[72] LIU, QINGMEI, CN  
[71] SCHERMEL, WILLIAM, CA  
[85] 2024-05-23  
[86] 2022-11-29 (PCT/CN2022/134970)  
[87] (WO2023/103837)  
[30] CN (202123105642.2) 2021-12-10

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[21] **3,239,006**  
[13] A1

[51] **Int.Cl. A24F 40/30 (2020.01) A24F 40/40 (2020.01) A24F 40/46 (2020.01) A24F 40/00 (2020.01) A24F 40/10 (2020.01) A24F 40/20 (2020.01)**  
[25] EN  
[54] **DUAL-CHAMBERED, HYBRID VAPORIZER SYSTEM FOR CANNABIS AND FLAVORED PRODUCTS**  
[54] **SYSTEME VAPORISATEUR HYBRIDE A DOUBLE CHAMBRE POUR CANNABIS ET PRODUITS AROMATISES**  
[72] DARGAN, MIKHAIL VIVEK, US  
[72] NELSON, BRANDON, US  
[72] OSBORNE, PETER, US  
[71] THE SOS DESIGN COMPANY LLC, US  
[85] 2024-05-23  
[86] 2022-12-15 (PCT/US2022/081663)  
[87] (WO2023/114914)  
[30] US (17/553,180) 2021-12-16  
[30] US (17/930,258) 2022-09-07

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[21] **3,239,007**  
[13] A1

[51] **Int.Cl. A23C 3/037 (2006.01) A23C 3/03 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCING A MILK-BASED PRODUCT**  
[54] **PROCEDE DE PRODUCTION D'UN PRODUIT A BASE DE LAIT**  
[72] TAMS, JEPPE WEGENER, DK  
[72] OSMAN, ALI, DK  
[72] SPODSBERG, NIKOLAJ, DK  
[72] SALOMON, JESPER, DK  
[72] RANNES, JULIE BILLE, DK  
[72] VESTER, JAN KJOELHEDE, DK  
[72] RASMUSSEN, FRANK WINTHER, DK  
[72] JOHANSEN, ANNETTE HELLE, DK  
[72] PACHE, ROLAND ALEXANDER, DK  
[71] NOVOZYMES A/S, DK  
[85] 2024-05-23  
[86] 2022-12-22 (PCT/EP2022/087482)  
[87] (WO2023/118436)  
[30] EP (21216998.1) 2021-12-22

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[21] **3,239,009**  
[13] A1

[51] **Int.Cl. A62B 9/02 (2006.01)**  
[25] EN  
[54] **BREATHING APPARATUS SYSTEM**  
[54] **SYSTEME D'APPAREIL RESPIRATOIRE**  
[72] WHYMAN, SAMUEL, US  
[72] MCJUNKIN, MARK, US  
[72] LYDICK, WILLIAM, US  
[72] MAYHUE, CLINTON, US  
[72] MARTIN, JOSEPH, US  
[71] AVON PROTECTION SYSTEMS, INC., US  
[85] 2024-05-23  
[86] 2022-12-06 (PCT/US2022/080964)  
[87] (WO2023/107911)  
[30] US (63/265,160) 2021-12-09

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[21] **3,239,010**  
[13] A1

[51] **Int.Cl. G16H 30/40 (2018.01) A61B 34/20 (2016.01)**  
[25] EN  
[54] **IMAGE SPACE CONTROL FOR ENDOVASCULAR TOOLS**  
[54] **COMMANDE D'ESPACE D'IMAGE POUR OUTILS ENDOVASCULAIRES**  
[72] BELL, DAVID JAMES, US  
[72] SGANGA, JAKE ANTHONY, US  
[72] KAHN, GREGORY, US  
[71] REMEDY ROBOTICS, INC., US  
[85] 2024-05-23  
[86] 2022-08-11 (PCT/US2022/040118)  
[87] (WO2023/096679)  
[30] US (63/264,531) 2021-11-24  
[30] US (17/810,102) 2022-06-30

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[21] **3,239,011**  
[13] A1

[51] **Int.Cl. C12N 15/115 (2010.01) G01N 27/26 (2006.01) G01N 33/50 (2006.01) A61K 47/10 (2017.01) C01B 33/113 (2006.01)**

[25] EN

[54] **ELECTROCHEMICAL APTAMER SENSORS WITH NON-MONOLAYER BLOCKING LAYERS**

[54] **CAPTEURS ELECTROCHIMIQUES A BASE D'APTAMERES AVEC COUCHES DE BLOCAGE NON-MONOCOUCHEES**

[72] HEIKENFELD, JASON CHARLES, US

[71] UNIVERSITY OF CINCINNATI, US

[85] 2024-05-23

[86] 2022-09-23 (PCT/US2022/044509)

[87] (WO2023/096700)

[30] US (63/282,440) 2021-11-23

[21] **3,239,013**  
[13] A1

[51] **Int.Cl. C07D 233/88 (2006.01)**

[25] EN

[54] **SOLID STATE FORMS OF NIROGACESTAT SALTS**

[54] **FORMES A L'ETAT SOLIDE DE SELS DE NIROGACESTAT**

[72] MUTHUSAMY, ANANTHA RAJMOHAN, IN

[72] SINGH, AMIT, IN

[71] TEVA PHARMACEUTICALS INTERNATIONAL GMBH, CH

[85] 2024-05-23

[86] 2022-11-23 (PCT/US2022/050833)

[87] (WO2023/096954)

[30] IN (202111053832) 2021-11-23

[21] **3,239,014**  
[13] A1

[51] **Int.Cl. C09K 13/00 (2006.01) E21B 47/11 (2012.01) C09K 8/00 (2006.01) E21B 43/26 (2006.01) G01F 1/704 (2006.01) G01V 9/00 (2006.01)**

[25] EN

[54] **SILICA-ENCAPSULATED TRACERS FOR USE IN FRACTURING FLUIDS AND METHODS OF PREPARATION AND ETCHING THEREOF**

[54] **TRACEURS ENCAPSULES DANS DE LA SILICE DESTINES A ETRE UTILISES DANS DES FLUIDES DE FRACTURATION ET LEURS PROCEDES DE PREPARATION ET D'ATTAQUE**

[72] TRAM, KHA QUAN, CA

[72] YAN, HONGBIN, CA

[72] MONTOYA BETANCOURT, FRANK, CA

[71] NCS MULTISTAGE, INC., CA

[85] 2024-05-23

[86] 2022-11-30 (PCT/CA2022/051752)

[87] (WO2023/097393)

[30] US (63/264,748) 2021-12-01

[21] **3,239,016**  
[13] A1

[51] **Int.Cl. B60L 13/03 (2006.01) B60L 13/06 (2006.01)**

[25] EN

[54] **TRANSPORTATION SYSTEMS**

[54] **SYSTEMES DE TRANSPORT**

[72] CHAABI, FAYCAL, EG

[71] CHAABI, FAYCAL, EG

[85] 2024-05-23

[86] 2022-11-28 (PCT/GB2022/053010)

[87] (WO2023/094837)

[30] GB (2117231.7) 2021-11-29

[30] GB (2202689.2) 2022-02-27

[21] **3,239,018**  
[13] A1

[51] **Int.Cl. G01S 19/01 (2010.01) G01S 19/53 (2010.01) G01V 1/16 (2006.01) G01V 1/22 (2006.01) G01V 1/24 (2006.01) H01Q 1/00 (2006.01) H04B 7/24 (2006.01) H04Q 9/02 (2006.01)**

[25] EN

[54] **SATELLITE-ENABLED NODE FOR AMBIENT NOISE TOMOGRAPHY**

[54] **N?UD ACTIVE PAR SATELLITE POUR TOMOGRAPHIE PAR BRUIT AMBIANT**

[72] BORG, BRAEDEN JAMES, AU

[72] PEARSON, MATTHEW JAMES, AU

[71] FLEET SPACE TECHNOLOGIES PTY LTD, AU

[85] 2024-05-23

[86] 2022-11-24 (PCT/AU2022/051411)

[87] (WO2023/164738)

[30] AU (2022900533) 2022-03-04

[30] AU (2022900680) 2022-03-18

[30] AU (2022209325) 2022-07-28

[21] **3,239,019**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01)**

[25] EN

[54] **HUMAN INDUCIBILITY CONTROLLABLE T-CELL AND METHOD FOR PREPARING SAME**

[54] **LYMPHOCYTE T CONTROLABLE PAR INDUCTIBILITE HUMAINE ET SON PROCEDE DE PREPARATION**

[72] MIKAMI, NORIHISA, JP

[72] SAKAGUCHI, SHIMON, JP

[71] REGCELL CO., LTD., JP

[85] 2024-05-23

[86] 2022-11-22 (PCT/JP2022/043220)

[87] (WO2023/095801)

[30] JP (2021-190127) 2021-11-24

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[21] **3,239,020**  
[13] A1

[51] **Int.Cl. H01Q 1/28 (2006.01)**  
[25] EN  
[54] **SMALL LEO SATELLITE SYSTEMS AND METHODS**  
[54] **SYSTEMES ET PROCEDES DE PETIT SATELLITE EN ORBITE BASSE**  
[72] PEREIRA, NICOLLAS ALEXANDRE VIEIRA DE FREITAS, AU  
[72] PARTIS, IAN, AU  
[72] TATA NARDINI, FLAVIA, AU  
[72] PEARSON, MATTHEW JAMES, AU  
[72] SALAH, MOHMED, AU  
[72] ESMATI, ZAHRA, AU  
[72] SAED, ABDULLAH, AU  
[72] VESCO, THOMAS JACOB, AU  
[71] FLEET SPACE TECHNOLOGIES PTY LTD, AU  
[85] 2024-05-23  
[86] 2022-10-31 (PCT/AU2022/051310)  
[87] (WO2023/097355)  
[30] AU (2021903909) 2021-12-02  
[30] AU (2022901792) 2022-06-27

[21] **3,239,022**  
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) C12N 5/077 (2010.01) A61K 38/18 (2006.01) A61K 38/30 (2006.01) A61P 19/08 (2006.01) C07K 14/475 (2006.01) C07K 14/49 (2006.01) C07K 14/495 (2006.01) C07K 14/51 (2006.01) C07K 14/65 (2006.01)**  
[25] EN  
[54] **TREATMENT OF BONE TISSUE TO INCREASE THE BIOAVAILABILITY OF GROWTH FACTORS**  
[54] **TRAITEMENT DE TISSU OSSEUX POUR AUGMENTER LA BIODISPONIBILITE DE FACTEURS DE CROISSANCE**  
[72] PEEL, SEAN A.F., CA  
[72] SHIVANNA, SOWMYA, CA  
[71] RED ROCK REGENERATION INC., CA  
[85] 2024-05-23  
[86] 2022-11-25 (PCT/CA2022/051736)  
[87] (WO2023/092236)  
[30] US (63/264,593) 2021-11-26

[21] **3,239,027**  
[13] A1

[51] **Int.Cl. B60L 58/40 (2019.01) B60L 58/13 (2019.01)**  
[25] EN  
[54] **MANAGEMENT DEVICE AND MANAGEMENT METHOD**  
[54] **DISPOSITIF DE GESTION ET PROCEDE DE GESTION**  
[72] YAMAWAKI, SHOTA, JP  
[72] OBATA, KOJI, JP  
[71] KOMATSU LTD., JP  
[85] 2024-05-23  
[86] 2022-11-25 (PCT/JP2022/043565)  
[87] (WO2023/095878)  
[30] JP (2021-190921) 2021-11-25

[21] **3,239,031**  
[13] A1

[51] **Int.Cl. G06Q 10/087 (2023.01)**  
[25] EN  
[54] **METHOD FOR INBOUND INVENTORY PUTAWAY**  
[54] **PROCEDE DE MISE EN STOCK D'INVENTAIRE A L'ARRIVAGE**  
[72] POST, TIMOTHY C., US  
[72] MULDER, JONATHAN, US  
[71] DEMATIC CORP., US  
[85] 2024-05-23  
[86] 2022-11-29 (PCT/IB2022/061552)  
[87] (WO2023/100079)  
[30] US (63/284,055) 2021-11-30

[21] **3,239,033**  
[13] A1

[51] **Int.Cl. E02F 9/28 (2006.01)**  
[25] FR  
[54] **WEAR ASSEMBLY FOR A BUCKET OF AN EXTRACTION OR WORKS MACHINE**  
[54] **ENSEMBLE D'USURE, POUR UN GODET D'UNE MACHINE D'EXTRACTION OU DE TRAVAUX**  
[72] MARCHAND, FABRICE, FR  
[71] SAFE METAL, FR  
[85] 2024-05-23  
[86] 2022-12-05 (PCT/EP2022/084465)  
[87] (WO2023/104736)  
[30] FR (FR2113016) 2021-12-06

[21] **3,239,035**  
[13] A1

[51] **Int.Cl. H01C 10/04 (2006.01) G01D 5/165 (2006.01) H01C 10/14 (2006.01) H01C 10/16 (2006.01) H01C 10/30 (2006.01) H01C 10/32 (2006.01) G05G 1/06 (2006.01)**  
[25] FR  
[54] **BUTTON**  
[54] **BOUTON**  
[72] CARTON, HERVE, FR  
[72] STEMMELLEN, THOMAS, FR  
[71] CROUZET, FR  
[85] 2024-05-23  
[86] 2022-11-29 (PCT/EP2022/083704)  
[87] (WO2023/099490)  
[30] FR (FR2112808) 2021-12-01

[21] **3,239,037**  
[13] A1

[51] **Int.Cl. C01B 15/023 (2006.01) B01J 21/12 (2006.01) B01J 23/96 (2006.01) B01J 38/06 (2006.01) B01J 38/60 (2006.01) B01J 38/66 (2006.01)**  
[25] FR  
[54] **REACTIVATION OF A HYDROGENATION CATALYST**  
[54] **REACTIVATION DE CATALYSEUR D'HYDROGENATION**  
[72] SAGE, JEAN-MARC, FR  
[72] REQUIEME, BENOIT, FR  
[72] FARINA, LAURENCE, FR  
[71] ARKEMA FRANCE, FR  
[85] 2024-05-23  
[86] 2022-12-21 (PCT/FR2022/052465)  
[87] (WO2023/118749)  
[30] FR (2114309) 2021-12-23

[21] **3,239,038**  
[13] A1

[51] **Int.Cl. H04W 12/50 (2021.01) H04W 12/08 (2021.01) H04W 12/33 (2021.01)**  
[25] EN  
[54] **DATA EXCHANGE WITH RESOURCE CONSTRAINED TECHNOLOGY IN SURGICAL ENVIRONMENT**  
[54] **ECHANGE DE DONNEES AVEC UNE TECHNOLOGIE A RESSOURCES LIMITEES DANS UN ENVIRONNEMENT CHIRURGICAL**  
[72] CARTER, CHRISTOPHER R., GB  
[71] PROXIMIE INC., US  
[85] 2024-05-23  
[86] 2023-01-17 (PCT/US2023/010897)  
[87] (WO2023/141084)  
[30] US (63/300,525) 2022-01-18

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[21] **3,239,039**  
[13] A1

[51] **Int.Cl. F03B 13/06 (2006.01) F03G 3/00 (2006.01) F03G 4/00 (2006.01)**  
[25] EN  
[54] **IMPROVEMENTS RELATING TO ENERGY STORAGE**  
[54] **AMELIORATIONS SE RAPPORTANT AU STOCKAGE D'ENERGIE**  
[72] BERTENYI, TAMAS, CA  
[72] POROWSKI, CHRISTIAN, CA  
[71] RHEENERGISE LIMITED, GB  
[85] 2024-05-23  
[86] 2022-11-30 (PCT/IB2022/061578)  
[87] (WO2023/100093)  
[30] GB (2117345.5) 2021-12-01

[21] **3,239,041**  
[13] A1

[51] **Int.Cl. E05F 15/70 (2015.01)**  
[25] EN  
[54] **DETECTOR MODULE FOR USE IN AN ENTRANCE SYSTEM**  
[54] **MODULE DETECTEUR DESTINE A ETRE UTILISE DANS UN SYSTEME D'ENTREE**  
[72] DREYER, ROGER, SE  
[72] PAULSSON, STEFAN, SE  
[71] ASSA ABLOY ENTRANCE SYSTEMS AB, SE  
[85] 2024-05-23  
[86] 2022-11-22 (PCT/EP2022/082701)  
[87] (WO2023/094340)  
[30] SE (2130321-9) 2021-11-23

[21] **3,239,044**  
[13] A1

[51] **Int.Cl. E05D 15/02 (2006.01) E05F 15/608 (2015.01) E05F 15/72 (2015.01) E05F 15/73 (2015.01)**  
[25] EN  
[54] **REVOLVING DOOR SYSTEM**  
[54] **SYSTEME DE PORTE TOURNANTE**  
[72] DREYER, ROGER, SE  
[71] ASSA ABLOY ENTRANCE SYSTEMS AB, SE  
[85] 2024-05-23  
[86] 2022-11-22 (PCT/EP2022/082707)  
[87] (WO2023/094343)  
[30] SE (2130330-0) 2021-11-23

[21] **3,239,040**  
[13] A1

[51] **Int.Cl. C07D 413/06 (2006.01) A61K 31/36 (2006.01) A61K 31/443 (2006.01) A61K 31/5377 (2006.01) C07D 317/58 (2006.01) C07D 317/60 (2006.01) C07D 405/06 (2006.01) C07D 407/06 (2006.01) C07D 407/12 (2006.01) C07D 409/06 (2006.01)**  
[25] EN  
[54] **ANALOGUES OF MDMA FOR MODULATING SERT, DAT, AND / OR NET ACTIVITY**  
[54] **ANALOGUES DE MDMA POUR MODULER L'ACTIVITE DE SERT, DE DAT ET/OU DE NET**  
[72] PULLELLA, GLENN, AU  
[72] GANDY, MICHAEL, AU  
[72] SCAFFIDI, ADRIAN, AU  
[72] KING, JASMINE, AU  
[72] PIGGOTT, MATTHEW, AU  
[71] THE UNIVERSITY OF WESTERN AUSTRALIA, AU  
[85] 2024-05-23  
[86] 2022-11-28 (PCT/AU2022/051422)  
[87] (WO2023/092195)  
[30] AU (2021903836) 2021-11-26  
[30] AU (2022901261) 2022-05-12

[21] **3,239,042**  
[13] A1

[51] **Int.Cl. C12Q 1/6883 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6827 (2018.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR IDENTIFYING TRANSPLANT REJECTION OR THE RISK THEREOF**  
[54] **COMPOSITIONS ET PROCEDES POUR IDENTIFIER UN REJET DE GREFFE OU LE RISQUE DE REJET DE GREFFE**  
[72] SHAH, PALAK, US  
[71] INOVA HEALTH CARE SERVICES, US  
[85] 2024-05-23  
[86] 2022-09-22 (PCT/US2022/044426)  
[87] (WO2023/096699)  
[30] US (63/283,053) 2021-11-24

[21] **3,239,045**  
[13] A1

[51] **Int.Cl. B65D 47/24 (2006.01) B65D 47/28 (2006.01) B65D 47/32 (2006.01)**  
[25] EN  
[54] **FLOW CONTROL DEVICE FOR INSERTING INTO CONTAINER OPENINGS**  
[54] **DISPOSITIF DE REGULATION D'ECOULEMENT A INSERER DANS DES OUVERTURES DE RECIPIENTS**  
[72] MONTEIRO BOTELHO, ALEX, BR  
[71] PMI SOUTH AMERICA CONSUMER GOODS LTDA, BR  
[85] 2024-05-23  
[86] 2022-11-24 (PCT/BR2022/050460)  
[87] (WO2023/092209)  
[30] BR (1020210236418) 2021-11-24

[21] **3,239,043**  
[13] A1

[51] **Int.Cl. A61K 39/00 (2006.01)**  
[25] EN  
[54] **PEPTIDE VACCINE**  
[54] **VACCIN PEPTIDIQUE**  
[72] LA THANGUE, NICHOLAS, GB  
[72] BARCZAK, WOJCIECH, GB  
[72] CARR, SIMON MARK, GB  
[71] ARGONAUT THERAPEUTICS LIMITED, GB  
[85] 2024-05-23  
[86] 2022-11-28 (PCT/GB2022/053012)  
[87] (WO2023/094839)  
[30] GB (2117230.9) 2021-11-29

[21] **3,239,046**  
[13] A1

[51] **Int.Cl. A24F 40/60 (2020.01)**  
[25] EN  
[54] **USER INTERFACE FOR AEROSOL-GENERATING DEVICE AND SYSTEM**  
[54] **INTERFACE UTILISATEUR POUR DISPOSITIF ET SYSTEME DE GENERATION D'AEROSOL**  
[72] WOODCOCK, DOMINIC, GB  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2024-05-23  
[86] 2022-11-08 (PCT/GB2022/052821)  
[87] (WO2023/094792)  
[30] GB (2117071.7) 2021-11-26

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[21] **3,239,047**  
[13] A1

[51] **Int.Cl. B05B 11/00 (2023.01)**  
[25] FR  
[54] **OPENING/CLOSING AND VAPORIZING MECHANISM FOR A BOTTLE, FOR EXAMPLE A PERFUME BOTTLE, AND SUCH A BOTTLE**  
[54] **MECANISME D'OUVERTURE/FERMETURE ET DE VAPORISATION POUR UN FLACON, PAR EXEMPLE DE PARFUM, ET UN TEL FLACON**  
[72] MARC, NICOLAS, FR  
[72] PENALVA, LAURENT, FR  
[72] PETIT, DAVID, FR  
[71] COMPTOIR NOUVEAU DE LA PARFUMERIE, FR  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/FR2022/052162)  
[87] (WO2023/094767)  
[30] FR (FR2112430) 2021-11-24

[21] **3,239,048**  
[13] A1

[51] **Int.Cl. A61H 3/04 (2006.01) B60B 33/02 (2006.01)**  
[25] EN  
[54] **WALKING FRAME WITH SELF-ALIGNING WHEELS**  
[54] **DEAMBULATEUR A ROUES A ALIGNEMENT AUTOMATIQUE**  
[72] WATT, CALLUM MATTHEW JACK, GB  
[72] THIES, SIBYLLE BRUNHILDE ANITHA, GB  
[72] VIJAYAN, JITHIN KARUKASSERIL, GB  
[72] BEVAN, SUSAN, GB  
[71] NOTTINGHAM REHAB LIMITED, GB  
[85] 2024-05-23  
[86] 2022-11-28 (PCT/GB2022/053002)  
[87] (WO2023/094832)  
[30] GB (2117186.3) 2021-11-29

[21] **3,239,049**  
[13] A1

[51] **Int.Cl. C08G 73/10 (2006.01) B29C 48/00 (2019.01) B29C 43/56 (2006.01)**  
[25] EN  
[54] **METHOD FOR TREATING POLYIMIDE**  
[54] **PROCEDE DE TRAITEMENT DE POLYIMIDE**  
[72] PALIN, MICHAEL GERARD, GB  
[72] GOODWIN, MATTHEW STANLEY, GB  
[72] LONGFIELD, PHILIP, GB  
[71] GOODWIN PLC, GB  
[85] 2024-05-23  
[86] 2022-11-29 (PCT/GB2022/053013)  
[87] (WO2023/094840)  
[30] GB (2117218.4) 2021-11-29

[21] **3,239,050**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/08 (2006.01) A61B 5/11 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR DETERMINING INTOXICANT IMPAIRMENT**  
[54] **SYSTEME ET METHODE DE DETERMINATION DE DEGRADATION DUE A UNE SUBSTANCE INTOXICANTE**  
[72] BERESNEV, ALEXEI LEONIDOVICH, US  
[72] COHEN, DANIEL ALLEN, US  
[72] SANDBERG, STEFAN, SE  
[71] BLOONICS HOLDING B.V., NL  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/US2022/050913)  
[87] (WO2023/097006)  
[30] US (63/282,918) 2021-11-24

[21] **3,239,051**  
[13] A1

[51] **Int.Cl. E04C 3/07 (2006.01) H02S 40/36 (2014.01) F24S 25/65 (2018.01) H01L 31/05 (2014.01)**  
[25] EN  
[54] **RAIL SPLICE WITH INTERFERENCE FEATURES**  
[54] **ECLISSE DE RAIL A CARACTERISTIQUES DE SERRAGE**  
[72] STEPHAN, ERICH KAI, US  
[72] WILKE, PETER, US  
[72] HARRIS, GLENN, US  
[71] PEGASUS SOLAR, INC., US  
[85] 2024-05-23  
[86] 2022-12-07 (PCT/US2022/052152)  
[87] (WO2023/107569)  
[30] US (63/286,899) 2021-12-07  
[30] US (18/076,734) 2022-12-07

[21] **3,239,052**  
[13] A1

[51] **Int.Cl. B23B 51/00 (2006.01) B33Y 80/00 (2015.01) B22F 5/00 (2006.01) B22F 7/06 (2006.01) B23B 51/02 (2006.01) B23B 51/06 (2006.01) B23D 77/00 (2006.01) B22F 10/18 (2021.01) B22F 10/28 (2021.01)**  
[25] EN  
[54] **CUTTING TOOL PART HAVING AN ADDITIVELY MANUFACTURED CUTTING PORTION WITH INTEGRALLY FORMED GUIDE PADS AND METHOD OF MANUFACTURING SAME**  
[54] **PARTIE D'OUTIL DE COUPE AYANT UNE PORTION DE COUPE FABRIQUEE DE MANIERE ADDITIVE AVEC DES TAMPONS DE GUIDAGE FORMES D'UN SEUL TENANT ET SON PROCEDE DE FABRICATION**  
[72] ZETTLER, MARTIN ULRICH, DE  
[72] POUSSIOS, NIKOLAOS, DE  
[72] DZIUBAS, HENNER MICHAEL, DE  
[71] ISCAR LTD., IL  
[85] 2024-05-23  
[86] 2022-11-14 (PCT/IL2022/051211)  
[87] (WO2023/112015)  
[30] US (63/288,672) 2021-12-13



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[21] **3,239,053**  
[13] A1

[51] **Int.Cl. A61K 9/16 (2006.01) A61K 38/47 (2006.01) A61M 15/08 (2006.01) A61P 1/00 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION COMPRISING BIOPHARMACEUTICAL DRUG COMPOUNDS**

[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DES COMPOSES MEDICAMENTEUX BIOPHARMACEUTIQUES**

[72] SAVMARKER, JONAS, SE

[72] RONN, ROBERT, SE

[71] OREXO AB, SE

[85] 2024-05-23

[86] 2022-11-25 (PCT/GB2022/052985)

[87] (WO2023/094818)

[30] GB (2117005.5) 2021-11-25

[30] GB (2208144.2) 2022-06-01

[30] GB (2213306.0) 2022-09-12

[21] **3,239,054**  
[13] A1

[51] **Int.Cl. A61K 47/55 (2017.01) A61K 47/64 (2017.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **PEPTIDE-DRUG CONJUGATES FOR TREATMENT OF NEURODEGENERATIVE DISEASES**

[54] **CONJUGUES PEPTIDE-MEDICAMENT POUR LE TRAITEMENT DE MALADIES NEURODEGENERATIVES**

[72] CLEMMENSEN, CHRISTOFFER, DK

[72] PETERSEN, JONAS ODGAARD, DK

[72] KLEIN, ANDERS BUE, DK

[71] KOBENHAVNS UNIVERSITET, DK

[85] 2024-05-23

[86] 2022-12-02 (PCT/EP2022/084178)

[87] (WO2023/099723)

[30] EP (21212124.8) 2021-12-02

[21] **3,239,055**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/02 (2006.01) A61B 5/107 (2006.01) A61M 25/00 (2006.01)**

[25] EN

[54] **PROBE FOR DETECTING AN OPENING SIZE OF AN OPENING IN A BLOOD VESSEL**

[54] **SONDE POUR DETECTER UNE TAILLE D'OUVERTURE D'UNE OUVERTURE DANS UN VAISSEAU SANGUIN**

[72] MOURRAN, CLAUDIA, DE

[72] SIESS, THORSTEN, DE

[71] ABIOMED EUROPE GMBH, DE

[85] 2024-05-23

[86] 2022-12-13 (PCT/EP2022/085495)

[87] (WO2023/110800)

[30] EP (21214786.2) 2021-12-15

[21] **3,239,056**  
[13] A1

[51] **Int.Cl. B23B 31/00 (2006.01) B33Y 80/00 (2015.01) B23B 51/00 (2006.01) B23B 51/06 (2006.01) B23C 5/00 (2006.01) B23C 5/28 (2006.01)**

[25] EN

[54] **INSERT HOLDER HAVING WEIGHT-REDUCING VOIDS AND CUTTING TOOL**

[54] **SUPPORT D'INSERT AYANT DES VIDES REDUISANT LE POIDS ET OUTIL DE COUPE**

[72] ZETTLER, MARTIN ULRICH, DE

[72] POUSSIOS, NIKOLAOS, DE

[72] DZIUBAS, HENNER MICHAEL, DE

[71] ISCAR LTD., IL

[85] 2024-05-23

[86] 2022-11-16 (PCT/IL2022/051221)

[87] (WO2023/112016)

[30] US (17/550,531) 2021-12-14

[21] **3,239,058**  
[13] A1

[51] **Int.Cl. B01J 39/12 (2006.01) B01J 41/10 (2006.01) B01J 47/04 (2006.01)**

[25] EN

[54] **SORBENT FOR DIALYSIS AND SORBENT SYSTEM FOR REGENERATIVE DIALYSIS**

[54] **SORBANT POUR DIALYSE ET SYSTEME DE SORBANT POUR DIALYSE REGENERATIVE**

[72] VENKATARAYA, SURESHA, SG

[72] GORI, MANDAR MANOHAR, SG

[72] SINGH, SANJAY KUMAR, SG

[72] FERNANDES, JOEL PREETHAM, SG

[72] TAN, DANIEL WEI TEIK, SG

[72] PAWLAK, MARCIN BARTLOMIEJ, SG

[72] CHIRUMARRY, SRIDHAR, SG

[72] GADI, VINOD KUMAR, SG

[72] LIM, JASON TZE CHERN, SG

[72] WANG, YUE (VICTORIA), SG

[72] HAYWOOD, PETER, SG

[71] AWAK TECHNOLOGIES PTE LTD, SG

[85] 2024-05-23

[86] 2022-11-29 (PCT/SG2022/050867)

[87] (WO2023/101606)

[30] SG (10202113299U) 2021-11-30

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[21] **3,239,059**  
[13] A1

[51] **Int.Cl. G06N 3/0455 (2023.01) G10L 25/30 (2013.01) G06N 3/0475 (2023.01) G10L 13/00 (2006.01)**

[25] EN

[54] **GENERATING AUDIO USING AUTO-REGRESSIVE GENERATIVE NEURAL NETWORKS**

[54] **GENERATION D'AUDIO A L'AIDE DE RESEAUX NEURONAUX GENERATIFS AUTO-REGRESSIFS**

[72] ZEGHIDOUR, NEIL, FR  
[72] GRANGIER, DAVID, US  
[72] TAGLIASACCHI, MARCO, CH  
[72] MARINIER, RAPHAEL, FR  
[72] TEBOUL, OLIVIER, FR  
[72] BORSOS, ZALAN, CH  
[72] AGOSTINELLI, ANDREA, CH  
[72] DENK, TIMO IMMANUEL, CH  
[72] CAILLON, ANTOINE, FR  
[72] ENGEL, JESSE, US  
[72] VERZETTI, MAURO, CH  
[72] FRANK, CHRISTIAN, CH  
[72] SHARIFI, MATTHEW, CH  
[72] ROBERTS, ADAM JOSEPH, US  
[71] GOOGLE LLC, US  
[85] 2024-05-23  
[86] 2023-09-07 (PCT/US2023/032168)  
[87] (WO2024/054556)  
[30] US (63/404,528) 2022-09-07  
[30] US (63/441,412) 2023-01-26

[21] **3,239,060**  
[13] A1

[51] **Int.Cl. C09K 8/66 (2006.01) C09K 8/80 (2006.01)**

[25] EN

[54] **HIGH-FLOW POLYOLEFIN COATED MINERAL AS PROPPANT PARTICULATE MATERIAL AND METHODS RELATED THERETO**

[54] **PRODUIT MINERAL REVETU D'UNE POLYOLEFINE A HAUTE FLUIDITE EN TANT QUE MATERIAU PARTICULAIRE SERVANT D'AGENT DE SOUTENEMENT ET PROCEDES ASSOCIES**

[72] STOJKOVIC, DRAGAN, US  
[72] SAHNOUNE, ABDELHADI, US  
[72] PENG, HAIQING, US  
[72] HALL, LEE J., US  
[72] DECKER, KENDAL K., US  
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US  
[85] 2024-05-23  
[86] 2022-11-10 (PCT/US2022/079627)  
[87] (WO2023/102312)  
[30] US (63/264,729) 2021-12-01

[21] **3,239,061**  
[13] A1

[51] **Int.Cl. A01N 43/647 (2006.01) A01N 43/653 (2006.01)**

[25] EN

[54] **WOOD TREATMENT COMPOSITIONS, METHODS OF USE, AND TREATED WOOD**

[54] **COMPOSITIONS DE TRAITEMENT DU BOIS, PROCEDES D'UTILISATION ET BOIS TRAITES**

[72] ARCHER, KEVIN J., US  
[72] BROWN, KEVIN M., US  
[71] VIANCE LLC, US  
[85] 2024-05-23  
[86] 2022-11-22 (PCT/US2022/050732)  
[87] (WO2023/096905)  
[30] US (63/282,794) 2021-11-24

[21] **3,239,062**  
[13] A1

[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/124 (2014.01) H04N 19/136 (2014.01)**

[25] EN

[54] **SIGNALING GENERAL CONSTRAINTS INFORMATION FOR VIDEO CODING**

[54] **SIGNALISATION D'INFORMATIONS DE CONTRAINTES GENERALES POUR CODAGE VIDEO**

[72] GAN, JONATHAN, US  
[72] YU, YUE, US  
[72] YU, HAOPING, US  
[71] GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., CN  
[85] 2024-05-23  
[86] 2022-11-08 (PCT/US2022/079494)  
[87] (WO2023/132993)  
[30] US (63/266,615) 2022-01-10  
[30] US (63/266,616) 2022-01-10  
[30] US (63/266,765) 2022-01-13

[21] **3,239,063**  
[13] A1

[51] **Int.Cl. C12Q 1/6886 (2018.01) C12Q 1/6809 (2018.01) C12Q 1/6869 (2018.01) C12Q 1/6883 (2018.01) G16H 50/30 (2018.01) G16B 20/10 (2019.01)**

[25] EN

[54] **MOLECULAR ANALYSES USING LONG CELL-FREE DNA MOLECULES FOR DISEASE CLASSIFICATION**

[54] **ANALYSES MOLECULAIRES UTILISANT DE LONGUES MOLECULES D'ADN ACELLULAIRES POUR LA CLASSIFICATION DES MALADIES**

[72] LO, YUK-MING DENNIS, CN  
[72] CHIU, ROSSA WAI KWUN, CN  
[72] CHAN, KWAN CHEE, CN  
[72] JIANG, PEIYONG, CN  
[72] CHOY, LOK YEE, CN  
[71] CENTRE FOR NOVOSTICS, CN  
[85] 2024-05-23  
[86] 2022-11-24 (PCT/CN2022/133878)  
[87] (WO2023/093782)  
[30] US (63/283,190) 2021-11-24  
[30] US (63/285,683) 2021-12-03

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[21] **3,239,064**  
[13] A1

[51] **Int.Cl. B07B 1/14 (2006.01) B07B 1/15 (2006.01) B07B 1/50 (2006.01)**

[25] EN  
[54] **SCREENING APPARATUS**  
[54] **APPAREIL DE CRIBLAGE**  
[72] RAFFERTY, NIGEL, GB  
[72] RAFFERTY, DESMOND, GB  
[71] M&K HOLDINGS (IRELAND) LIMITED, GB  
[85] 2024-05-23  
[86] 2022-12-07 (PCT/EP2022/084867)  
[87] (WO2023/138831)  
[30] GB (2200829.6) 2022-01-24

[21] **3,239,065**  
[13] A1

[51] **Int.Cl. A61K 31/4155 (2006.01) A61K 31/437 (2006.01) A61K 31/519 (2006.01) A61P 25/00 (2006.01)**

[25] EN  
[54] **METHODS OF TREATING CNS DISORDERS**  
[54] **METHODES DE TRAITEMENT DE TROUBLES DU SNC**  
[72] LIANG, CONGXIN, CN  
[72] TANG, WEI, CN  
[71] HANGZHOU HIGHLIGHTLL PHARMACEUTICAL CO., LTD, CN  
[85] 2024-05-23  
[86] 2022-08-22 (PCT/CN2022/113807)  
[87] (WO2023/035913)  
[30] CN (202111069990.0) 2021-09-13

[21] **3,239,066**  
[13] A1

[51] **Int.Cl. C12Q 1/6848 (2018.01) C12Q 1/6853 (2018.01) C12Q 1/686 (2018.01) C12Q 1/689 (2018.01) C07H 21/02 (2006.01)**

[25] EN  
[54] **IMPROVED ISOTHERMAL AMPLIFICATION**  
[54] **AMPLIFICATION ISOTHERME AMELIOREE**  
[72] MILLAR, DOUGLAS, AU  
[71] GENETIC SIGNATURES LIMITED, AU  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/AU2022/051403)  
[87] (WO2023/092178)  
[30] AU (2021903771) 2021-11-23

[21] **3,239,067**  
[13] A1

[51] **Int.Cl. A61K 31/222 (2006.01) A61K 31/215 (2006.01) A61P 25/16 (2006.01)**

[25] EN  
[54] **METHODS OF TREATING NEUROLOGICAL DISORDERS**  
[54] **METHODES DE TRAITEMENT DE TROUBLES NEUROLOGIQUES**  
[72] LILLIE, JAMES, US  
[72] WOOD, MICHAEL, US  
[71] MAPLIGHT THERAPEUTICS, INC., US  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/US2022/080429)  
[87] (WO2023/097276)  
[30] US (63/283,140) 2021-11-24  
[30] US (63/416,745) 2022-10-17

[21] **3,239,068**  
[13] A1

[51] **Int.Cl. A01B 73/04 (2006.01) A01B 73/06 (2006.01) A01B 59/042 (2006.01) A01C 7/20 (2006.01)**

[25] EN  
[54] **AGRICULTURAL SOIL PROCESSING DEVICE**  
[54] **DISPOSITIF DE TRAITEMENT DE SOL AGRICOLE**  
[72] PETERAC, JIRI, CZ  
[72] FORMAN, PAVEL, CZ  
[72] SYROVATKA, PAVEL, CZ  
[72] BEDNAR, VOJTECH, CZ  
[71] BEDNAR FMT S.R.O., CZ  
[85] 2024-05-23  
[86] 2022-11-24 (PCT/CZ2022/050123)  
[87] (WO2023/093925)  
[30] CZ (PV 2021-533) 2021-11-24

[21] **3,239,069**  
[13] A1

[51] **Int.Cl. C12N 15/11 (2006.01)**

[25] EN  
[54] **MODIFIED PRIME EDITING GUIDE RNAS**  
[54] **ARN GUIDES D'EDITION PRIMAIRE MODIFIES**  
[72] ANZALONE, ANDREW V., US  
[72] STILLER, JOHN, US  
[72] WILEY, DAVID, US  
[71] PRIME MEDICINE, INC., US  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/US2022/050874)  
[87] (WO2023/096977)  
[30] US (63/283,076) 2021-11-24  
[30] US (63/417,857) 2022-10-20

[21] **3,239,070**  
[13] A1

[51] **Int.Cl. C21D 1/02 (2006.01) C21D 1/18 (2006.01) C21D 1/19 (2006.01) C21D 1/25 (2006.01) C21D 1/26 (2006.01) C21D 6/02 (2006.01) C21D 8/02 (2006.01) C21D 9/46 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/06 (2006.01) C22C 38/12 (2006.01) C22C 38/14 (2006.01) C22C 38/42 (2006.01) C22C 38/44 (2006.01) C22C 38/46 (2006.01) C22C 38/48 (2006.01) C22C 38/50 (2006.01) C22C 38/58 (2006.01)**

[25] EN  
[54] **PROCESS FOR MANUFACTURING HIGH STRENGTH STEEL**  
[54] **PROCESSUS DE FABRICATION D'ACIER A HAUTE RESISTANCE**  
[72] MERWIN, MATTHEW J., US  
[71] UNITED STATES STEEL CORPORATION, US  
[85] 2024-05-23  
[86] 2022-11-23 (PCT/US2022/080444)  
[87] (WO2023/097287)  
[30] US (63/283,090) 2021-11-24

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[21] **3,239,071**  
[13] A1

[51] **Int.Cl. C07D 471/10 (2006.01) A61K 31/497 (2006.01) A61P 13/08 (2006.01)**  
[25] EN  
[54] **CHIMERIC COMPOUND FOR TARGETED DEGRADATION OF PROTEIN, PREPARATION METHOD THEREFOR, AND MEDICAL USE THEREOF**  
[54] **COMPOSE CHIMERE POUR DEGRADATION CIBLEE DE PROTEINE DE RECEPTEUR DES ANDROGENES, SON PROCEDE DE PREPARATION ET SON UTILISATION MEDICALE**  
[72] YANG, FANGLONG, CN  
[72] JIA, MINQIANG, CN  
[72] CHEN, GANG, CN  
[72] CHI, JIANGTAO, CN  
[72] HE, FENG, CN  
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN  
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN  
[85] 2024-05-23  
[86] 2022-11-25 (PCT/CN2022/134333)  
[87] (WO2023/093845)  
[30] CN (202111413454.8) 2021-11-25  
[30] CN (202111624368.1) 2021-12-28  
[30] CN (202210097592.8) 2022-01-27  
[30] CN (202210203856.3) 2022-03-03  
[30] CN (202211083887.6) 2022-09-06

[21] **3,239,072**  
[13] A1

[51] **Int.Cl. G01N 21/76 (2006.01)**  
[25] EN  
[54] **THREE-DIMENSIONAL LUMINESCENCE IMAGING**  
[54] **IMAGERIE DE LUMINESCENCE TRIDIMENSIONNELLE**  
[72] KEMPNER, JOSHUA, US  
[72] RIPOLL, JORGE, US  
[71] PERKINELMER HEALTH SCIENCES, INC., US  
[85] 2024-05-23  
[86] 2022-11-21 (PCT/US2022/050536)  
[87] (WO2023/096846)  
[30] US (17/534,166) 2021-11-23

[21] **3,239,101**  
[13] A1

[51] **Int.Cl. C07D 417/14 (2006.01)**  
[25] EN  
[54] **TRICYCLIC DERIVATIVE AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**  
[54] **DERIVE TRICYCLIQUE ET PROCEDE DE PREPARATION S'Y RAPPORTANT ET APPLICATION ASSOCIEE**  
[72] DENG, GANG, CN  
[72] GUO, SHUCHUN, CN  
[72] FAN, JUN, CN  
[72] ZHANG, ZHITAO, CN  
[72] WU, NAN, CN  
[72] SHI, WENQIANG, CN  
[72] FANG, ZHIHUA, CN  
[72] FENG, JIANBO, CN  
[72] PENG, JIANBIAO, CN  
[72] GUO, HAIBING, CN  
[71] SHANGHAI JEMINCARE PHARMACEUTICAL CO., LTD., CN  
[85] 2024-05-24  
[86] 2022-11-25 (PCT/CN2022/134258)  
[87] (WO2023/093832)  
[30] CN (202111416045.3) 2021-11-25  
[30] CN (202211205107.0) 2022-09-29  
[30] CN (202211457401.0) 2022-11-17

[21] **3,239,102**  
[13] A1

[51] **Int.Cl. G06F 3/14 (2006.01) G09G 3/00 (2006.01) G09G 5/12 (2006.01)**  
[25] EN  
[54] **DISPLAY SYSTEM AND METHOD OF OPERATION**  
[54] **SYSTEME D'AFFICHAGE ET PROCEDE DE FONCTIONNEMENT**  
[72] CHYKEYUK, KIRYL, GB  
[72] MALINOUSKI, DZMITRY, GB  
[72] ZHURAVLIOV, ALEXANDR, GB  
[72] SAUCHUK, MIKALAI, GB  
[71] KINO-MO LIMITED, GB  
[85] 2024-05-24  
[86] 2022-11-24 (PCT/GB2022/052981)  
[87] (WO2023/099871)  
[30] GB (2117348.9) 2021-12-01

[21] **3,239,104**  
[13] A1

[51] **Int.Cl. A01B 59/041 (2006.01) A01B 73/06 (2006.01) A01B 59/042 (2006.01) A01B 73/04 (2006.01) A01C 7/20 (2006.01)**  
[25] EN  
[54] **AGRICULTURAL SOIL PROCESSING DEVICE AND METHOD OF FOLDING THE AGRICULTURAL DEVICE**  
[54] **DISPOSITIF DE TRAITEMENT DE SOL AGRICOLE ET PROCEDE DE PLIAGE DU DISPOSITIF AGRICOLE**  
[72] PETERAC, JIRI, CZ  
[72] FORMAN, PAVEL, CZ  
[72] SYROVATKA, PAVEL, CZ  
[72] BEDNAR, VOJTECH, CZ  
[71] BEDNAR FMT S.R.O., CZ  
[85] 2024-05-24  
[86] 2022-11-24 (PCT/CZ2022/050122)  
[87] (WO2023/093924)  
[30] CZ (PV 2021-531) 2021-11-24

[21] **3,239,105**  
[13] A1

[51] **Int.Cl. F17C 5/06 (2006.01)**  
[25] EN  
[54] **METHOD OF COMPRESSING HYDROGEN GAS, HYDROGEN GAS COMPRESSOR SYSTEM AND HYDROGEN GAS STORAGE UNIT**  
[54] **PROCEDE DE COMPRESSION D'HYDROGENE GAZEUX, SYSTEME DE COMPRESSEUR D'HYDROGENE GAZEUX ET UNITE DE STOCKAGE D'HYDROGENE GAZEUX**  
[72] DOUGLAS, ROY, GB  
[72] WOODS, ANDREW, GB  
[72] ELLIOT, MATTHEW, GB  
[71] CATAGEN LIMITED, GB  
[85] 2024-05-24  
[86] 2022-11-29 (PCT/EP2022/083738)  
[87] (WO2023/094711)  
[30] GB (2117223.4) 2021-11-29

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[21] **3,239,106**  
[13] A1

[51] **Int.Cl. H01B 5/02 (2006.01) H01B 5/12 (2006.01)**  
[25] EN  
[54] **AN ELECTRICAL CONDUCTOR FOR AN ELECTRICAL INSTALLATION IN A RENEWABLE ENERGY FACILITY**  
[54] **CONDUCTEUR ELECTRIQUE POUR INSTALLATION ELECTRIQUE DANS UNE INSTALLATION A ENERGIE RENOUEVELABLE**  
[72] THING, POUL, DK  
[72] VESTERGAARD, JORGEN DAHL, DK  
[72] RANNESTAD, BJORN, DK  
[71] KK WIND SOLUTIONS A/S, DK  
[85] 2024-05-24  
[86] 2022-11-29 (PCT/DK2022/050250)  
[87] (WO2023/093962)  
[30] DK (PA 2021 70586) 2021-11-29

[21] **3,239,108**  
[13] A1

[51] **Int.Cl. F17C 5/06 (2006.01)**  
[25] EN  
[54] **METHOD OF COMPRESSING HYDROGEN GAS, HYDROGEN GAS COMPRESSOR SYSTEM AND HYDROGEN GAS STORAGE UNIT**  
[54] **PROCEDE DE COMPRESSION D'HYDROGENE GAZEUX, SYSTEME DE COMPRESSEUR D'HYDROGENE GAZEUX ET UNITE DE STOCKAGE D'HYDROGENE GAZEUX**  
[72] DOUGLAS, ROY, GB  
[72] WOODS, ANDREW, GB  
[72] ELLIOT, MATTHEW, GB  
[71] CATAGEN LIMITED, GB  
[85] 2024-05-24  
[86] 2022-11-29 (PCT/EP2022/083739)  
[87] (WO2023/094712)  
[30] GB (2117223.4) 2021-11-29

[21] **3,239,109**  
[13] A1

[51] **Int.Cl. C01D 5/00 (2006.01) D04H 3/013 (2012.01) C08B 15/06 (2006.01) C08B 16/00 (2006.01) D01D 5/06 (2006.01) D01F 2/02 (2006.01) D01F 13/02 (2006.01)**  
[25] EN  
[54] **CELLULOSIC TEXTILE FIBRE**  
[54] **FIBRE TEXTILE CELLULOSIQUE**  
[72] SIREN, SAKARI, FI  
[72] VEIJOLA, ELIAS, FI  
[72] NUOPPONEN, MARKUS, FI  
[71] INFINITED FIBER COMPANY OY, FI  
[85] 2024-05-24  
[86] 2023-01-05 (PCT/FI2023/050009)  
[87] (WO2023/131747)  
[30] FI (20225011) 2022-01-07

[21] **3,239,110**  
[13] A1

[51] **Int.Cl. C07D 403/04 (2006.01) C07D 403/14 (2006.01) C07D 413/04 (2006.01) C07D 413/14 (2006.01) C07D 417/14 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01)**  
[25] EN  
[54] **COMPOUNDS AND METHODS FOR MODULATING SPLICING**  
[54] **COMPOSES ET PROCEDES DE MODULATION DE L'EPISSAGE**  
[72] REYNOLDS, DOMINIC, US  
[72] SEILER, MICHAEL W., US  
[72] AGRAWAL, ANANT A., US  
[72] VAILLANCOURT, FREDERIC, US  
[72] SMITH, PETER, US  
[72] PRAJAPATI, SUDEEP, US  
[72] HOPPER, ALLEN T., US  
[72] VYSKOCIL, STEPAN, US  
[72] MOREAU, BENOIT, US  
[71] REMIX THERAPEUTICS INC., US  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/US2022/050914)  
[87] (WO2023/097007)  
[30] US (63/283,127) 2021-11-24

[21] **3,239,113**  
[13] A1

[51] **Int.Cl. A23L 13/40 (2023.01) A23K 40/25 (2016.01) A23L 13/50 (2016.01) A23L 13/60 (2016.01) A23P 30/20 (2016.01) A23J 3/04 (2006.01) A23J 3/14 (2006.01) A23J 3/16 (2006.01) A23J 3/22 (2006.01) A23J 3/26 (2006.01)**  
[25] EN  
[54] **METHOD OF PRODUCING A FOOD PRODUCT**  
[54] **PROCEDE DE PRODUCTION D'UN PRODUIT ALIMENTAIRE**  
[72] VEKKELI, SANTTU, FI  
[71] NE INNOVATIONS OY, FI  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/FI2022/050782)  
[87] (WO2023/094729)  
[30] FI (20216206) 2021-11-25  
[30] FI (20225390) 2022-05-05

[21] **3,239,114**  
[13] A1

[51] **Int.Cl. A61L 27/24 (2006.01) A61L 27/48 (2006.01) A61L 27/54 (2006.01)**  
[25] EN  
[54] **METHOD OF PROVIDING AN IMPLANTABLE HYDROGEL MATERIAL AND AN IMPLANTABLE HYDROGEL MATERIAL**  
[54] **PROCEDE DE FOURNITURE D'UN MATERIAU D'HYDROGEL IMPLANTABLE ET MATERIAU D'HYDROGEL IMPLANTABLE**  
[72] RAFAT, MEHRDAD, SE  
[71] RAFAT, MEHRDAD, SE  
[85] 2024-05-24  
[86] 2022-12-01 (PCT/SE2022/051130)  
[87] (WO2023/101594)  
[30] SE (2151478-1) 2021-12-03

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[21] **3,239,115**  
[13] A1

[51] **Int.Cl. C01D 5/00 (2006.01) D04H 3/013 (2012.01) C08B 15/06 (2006.01) C08B 16/00 (2006.01) D01D 5/06 (2006.01) D01F 2/02 (2006.01) D01F 13/02 (2006.01)**

[25] EN  
[54] **CELLULOSIC TEXTILE FIBRE**  
[54] **FIBRE TEXTILE CELLULOSIQUE**  
[72] MALANIN, ERKKI, FI  
[72] SIREN, SAKARI, FI  
[72] NUOPPONEN, MARKUS, FI  
[72] VEIJOLA, ELIAS, FI  
[71] INFINITED FIBER COMPANY OY, FI  
[85] 2024-05-24  
[86] 2023-01-05 (PCT/FI2023/050010)  
[87] (WO2023/131748)  
[30] FI (20225011) 2022-01-07

[21] **3,239,116**  
[13] A1

[51] **Int.Cl. A23G 1/30 (2006.01) A23G 1/48 (2006.01) A23G 1/50 (2006.01) A23G 3/50 (2006.01)**

[25] EN  
[54] **FOOD PRODUCT**  
[54] **PRODUIT ALIMENTAIRE**  
[72] VAN HOUTUM, HANS, NL  
[72] LAARMAN, ROBIN, NL  
[72] MEULENSTEEN, STEPHAN, NL  
[72] POPESCU, LAUREN, US  
[71] MARS, INC., US  
[85] 2024-05-24  
[86] 2022-12-02 (PCT/US2022/051700)  
[87] (WO2023/102214)  
[30] US (63/285,528) 2021-12-03

[21] **3,239,117**  
[13] A1

[51] **Int.Cl. G06T 5/00 (2024.01)**

[25] EN  
[54] **METHOD, SYSTEM AND COMPUTER-READABLE MEDIUM FOR MOTION DETECTION AND CORRECTION OF A MEDICAL IMAGE**  
[54] **PROCEDE ET SYSTEME DE DETECTION ET DE CORRECTION DE MOUVEMENT D'IMAGE MEDICALE, ET SUPPORT LISIBLE PAR ORDINATEUR**  
[72] KO, CHI-LUN, CN  
[72] YEN, RUOH-FANG, CN  
[72] CHENG, MEI-FANG, CN  
[71] KO, CHI-LUN, CN  
[85] 2024-05-24  
[86] 2022-12-05 (PCT/CN2022/136636)  
[87] (WO2023/103975)  
[30] US (63/286,133) 2021-12-06

[21] **3,239,118**  
[13] A1

[51] **Int.Cl. C10L 5/14 (2006.01) C10L 5/36 (2006.01) C10L 5/48 (2006.01) C10L 9/10 (2006.01)**

[25] EN  
[54] **STORAGE-STABLE SPENT POTLINING MATERIAL, METHOD FOR THE PRODUCTION THEREOF, AND THE USE THEREOF AS FUEL**  
[54] **MATERIAU POUR REVETEMENT DE CUVES EPUISE STABLE AU STOCKAGE, SON PROCEDE DE FABRICATION ET SON UTILISATION COMME COMBUSTIBLE**  
[72] LEMKE, RALF, DE  
[72] GUSSGEN, OLAF, DE  
[72] ECKHARD, KATHRIN, DE  
[72] HOFLE, JOACHIM, DE  
[72] BEERMANN, ANDREAS, DE  
[72] KENSY, THORSTEN, DE  
[71] SPEIRA GMBH, DE  
[85] 2024-05-24  
[86] 2022-11-25 (PCT/EP2022/083258)  
[87] (WO2023/094584)  
[30] EP (21210576.1) 2021-11-25

[21] **3,239,119**  
[13] A1

[51] **Int.Cl. F24F 3/163 (2021.01) F24F 8/108 (2021.01) F24F 8/22 (2021.01) G10K 11/168 (2006.01) G10K 11/178 (2006.01)**

[25] EN  
[54] **WORKSPACE WALL, AIR PURIFYING DEVICE, AND DESKTOP SYSTEM**  
[54] **PAROI D'ESPACE DE TRAVAIL, DISPOSITIF DE PURIFICATION D'AIR ET SYSTEME DE BUREAU**  
[72] LACOUR-GAYET, JULIEN, CH  
[72] SCHLOTTERBECK, MARCEL, CH  
[72] MCELDOWNEY, BLAKE RAMSAY, ES  
[72] MORENO MEDINA, JAIME TOMAS, ES  
[72] GARCIA GARCIA, DIEGO, ES  
[72] SORIANO BLANCO, JUAN, ES  
[72] KUKORELLI, PETER, ES  
[72] ROQUERO MENDIOLA, ALEJANDRO, ES  
[72] FERNANDEZ DE TROCONIZ CRESPO, CARLOS, ES  
[72] OCAMPO JORAN, MAURICIO IVAN, ES  
[72] GALA SAN ROMAN FUENTES, BARBARA, ES  
[72] AL ZUBAIDI, AHMAD, BE  
[72] WAGENAARS, WILHELMUS MARIA, BE  
[72] VATER, ANALENA, BE  
[72] LISSEK, HERVE, CH  
[72] SERGEEV, STANISLAV, CH  
[71] WOAS SA, CH  
[85] 2024-05-24  
[86] 2022-11-24 (PCT/EP2022/083158)  
[87] (WO2023/094539)  
[30] EP (21383063.1) 2021-11-24

[21] **3,239,120**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) C12N 15/67 (2006.01)**

[25] EN  
[54] **MODIFIED 5' UTR**  
[54] **5'UTR MODIFIEE**  
[72] DEUTCH, SAMUEL, US  
[72] FRIMANSSON, DANIEL OMAR, US  
[72] HAABETH, OLE, US  
[71] NUTCRACKER THERAPEUTICS, INC., US  
[85] 2024-05-24  
[86] 2022-11-29 (PCT/US2022/051229)  
[87] (WO2023/101952)  
[30] US (63/284,261) 2021-11-30

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[21] **3,239,121**  
[13] A1

[51] **Int.Cl. F16H 49/00 (2006.01)**  
[25] EN  
[54] **HARMONIC DRIVE WITH COMPACT STRUCTURE MADE BY PLASTIC MATERIAL**  
[54] **DEMULTIPLIFICATEUR HARMONIQUE A STRUCTURE COMPACTE CONSTITUEE DE MATIERE PLASTIQUE**  
[72] DINI, MAURIZIO, IT  
[72] GAIDA, GABRIELE, IT  
[72] PERETTO, GABRIELE, IT  
[71] ERGOTECH S.R.L., IT  
[85] 2024-05-24  
[86] 2022-11-24 (PCT/IT2022/050300)  
[87] (WO2023/095179)  
[30] IT (102021000030044) 2021-11-26

[21] **3,239,122**  
[13] A1

[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/9717 (2017.01) A61K 8/99 (2017.01) A61K 35/74 (2015.01) A61P 17/08 (2006.01) A61P 17/10 (2006.01)**  
[25] EN  
[54] **A FREEZE-DRIED COMPOSITION AND PREPARATION THEREOF**  
[54] **COMPOSITION LYOPHILISEE ET SA PREPARATION**  
[72] HARTMANS, SYBE, CH  
[72] HESSE, RICHARD, CH  
[71] S-BIOMEDIC, BE  
[85] 2024-05-24  
[86] 2022-12-13 (PCT/EP2022/085648)  
[87] (WO2023/110886)  
[30] EP (21215744.0) 2021-12-17  
[30] EP (21215746.5) 2021-12-17

[21] **3,239,123**  
[13] A1

[51] **Int.Cl. G06F 21/64 (2013.01) G06F 21/30 (2013.01) G06F 16/23 (2019.01) G06F 16/27 (2019.01) G06Q 20/36 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR ENCAPSULATING TRUST MECHANISMS INTO NON-FUNGIBLE TOKENS**  
[54] **SYSTEME ET PROCEDE D'ENCAPSULATION DE MECANISMES DE CONFIANCE DANS DES JETONS NON FONGIBLES**  
[72] KHANDELWAL, HARSCH, CA  
[71] UREEQA INC., CA  
[85] 2024-05-24  
[86] 2022-11-25 (PCT/CA2022/051735)  
[87] (WO2023/092235)  
[30] US (63/283,354) 2021-11-26

[21] **3,239,124**  
[13] A1

[51] **Int.Cl. A61F 9/00 (2006.01) A61J 1/14 (2006.01) B65D 47/18 (2006.01)**  
[25] FR  
[54] **DISPENSER FOR DRIP-DISPENSING A STERILE LIQUID PRODUCT CONTAINING A SURFACTANT**  
[54] **FLACON POUR LA DISTRIBUTION GOUTTE A GOUTTE D'UN PRODUIT LIQUIDE STERILE CONTENANT UN AGENT TENSIOACTIF**  
[72] QUAGLIA, BENJAMIN, FR  
[71] LABORATOIRES THEA, FR  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/FR2022/052164)  
[87] (WO2023/094769)  
[30] FR (FR2112639) 2021-11-29

[21] **3,239,125**  
[13] A1

[51] **Int.Cl. F28D 7/16 (2006.01)**  
[25] EN  
[54] **HEAT EXCHANGER WATER TRAP**  
[54] **ECHANGEUR DE CHALEUR A POT DE PURGE**  
[72] ANDERSEN, MARTIN RONNOV, DK  
[72] LARSEN, KJELD NEDERGAARD, DK  
[71] KNL HOLDING HJORRING APS, DK  
[85] 2024-05-24  
[86] 2022-12-06 (PCT/DK2022/050266)  
[87] (WO2023/104270)  
[30] DK (PA 2021 70600) 2021-12-07

[21] **3,239,126**  
[13] A1

[51] **Int.Cl. H04L 25/03 (2006.01)**  
[25] EN  
[54] **SATELLITE RECEIVER INCLUDING PRE-EQUALIZER TO COMPENSATE FOR LINEAR IMPAIRMENTS**  
[54] **RECEPTEUR SATELLITE COMPRENANT UN PRE-EGALISEUR POUR COMPENSER DES DEGRADATIONS LINEAIRES**  
[72] SUBRAMANIAM, BALA, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2024-05-24  
[86] 2022-12-14 (PCT/US2022/081564)  
[87] (WO2023/129814)  
[30] US (17/646,359) 2021-12-29

[21] **3,239,127**  
[13] A1

[51] **Int.Cl. B22D 19/00 (2006.01) B22D 19/02 (2006.01) B22D 19/14 (2006.01) B22D 21/02 (2006.01) C22C 1/10 (2023.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/22 (2006.01) C22C 38/36 (2006.01) C22C 38/38 (2006.01) C22C 38/58 (2006.01)**  
[25] EN  
[54] **NIObIUM CARBIDE REINFORCED MANGANESE STEEL**  
[54] **ACIER AU MANGANESE RENFORCE AU CARBURE DE NIObIUM**  
[72] MELK, LATIFA, SE  
[71] SANDVIK SRP AB, SE  
[85] 2024-05-24  
[86] 2022-12-15 (PCT/EP2022/086005)  
[87] (WO2023/111114)  
[30] EP (21215681.4) 2021-12-17

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[21] **3,239,128**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01) A61K 35/761 (2015.01) A61P 3/10 (2006.01) C07K 14/605 (2006.01)**

[25] EN

[54] **POLYCISTRONIC EXPRESSION OF GUT PEPTIDES**

[54] **EXPRESSION POLYCISTRONIQUE DE PEPTIDES INTESTINAUX**

[72] GUO, XUECUI, US

[72] FORBES, ALEXANDRIA, US

[71] MEIRAGTX, UK II LIMITED, GB

[85] 2024-05-24

[86] 2022-12-15 (PCT/IB2022/000815)

[87] (WO2023/131811)

[30] US (63/361,399) 2021-12-15

[21] **3,239,129**  
[13] A1

[51] **Int.Cl. H04L 25/02 (2006.01) H04L 27/26 (2006.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR CORRECTING TIMING AND FREQUENCY OFFSETS BETWEEN COMMUNICATIONS RECEIVERS AND TRANSMITTERS**

[54] **PROCEDES ET APPAREIL DE CORRECTION DE DECALAGES DE CADENCEMENT ET DE FREQUENCE ENTRE DES RECEPTEURS ET DES EMETTEURS DE COMMUNICATION**

[72] ROBINSON, MATTHEW BRANDON, US

[71] RAMPART COMMUNICATIONS, INC., US

[85] 2024-05-24

[86] 2022-12-08 (PCT/US2022/081173)

[87] (WO2023/108065)

[30] US (63/288,335) 2021-12-10

[21] **3,239,130**  
[13] A1

[51] **Int.Cl. B02C 13/14 (2006.01)**

[25] EN

[54] **LINER PLATE IN CONNECTION TO A MATERIAL PROCESSING HANDLING SYSTEM**

[54] **PLAQUE DE REVETEMENT EN LIAISON AVEC UN SYSTEME DE MANIPULATION DE TRAITEMENT DE MATERIAU**

[72] ESBELANI, HODIN, SE

[71] SANDVIK SRP AB, SE

[85] 2024-05-24

[86] 2022-12-21 (PCT/EP2022/087281)

[87] (WO2023/118325)

[30] EP (21216238.2) 2021-12-21

[21] **3,239,131**  
[13] A1

[51] **Int.Cl. C22B 3/04 (2006.01) C01D 15/02 (2006.01) C01D 15/06 (2006.01) C22B 3/06 (2006.01) C22B 3/44 (2006.01) C22B 26/12 (2006.01)**

[25] EN

[54] **METHOD FOR RECOVERING METALS FROM LITHIUM ION BATTERY WASTE**

[54] **PROCEDE DE RECUPERATION DE METAUX A PARTIR DE DECHETS DE BATTERIES AU LITHIUM-ION**

[72] ARIYOSHI, HIROTAKA, JP

[72] ITO, JUNICHI, JP

[72] ARAKAWA, JUNICHI, JP

[72] ABE, HIROSHI, JP

[71] JX METALS CORPORATION, JP

[85] 2024-05-24

[86] 2022-12-26 (PCT/JP2022/047994)

[87] (WO2023/132297)

[30] JP (2022-000706) 2022-01-05

[30] JP (2022-104989) 2022-06-29

[21] **3,239,132**  
[13] A1

[51] **Int.Cl. C09K 5/06 (2006.01) F28D 20/00 (2006.01) F28D 20/02 (2006.01) F28F 21/08 (2006.01)**

[25] EN

[54] **ENERGY STORAGE**

[54] **STOCKAGE D'ENERGIE**

[72] KISI, ERICH, AU

[72] TANNER, DAVID, AU

[71] MGA THERMAL PTY LTD, AU

[85] 2024-05-24

[86] 2022-11-21 (PCT/AU2022/051391)

[87] (WO2023/115098)

[30] AU (2021904176) 2021-12-21

[21] **3,239,134**  
[13] A1

[51] **Int.Cl. C23C 16/455 (2006.01) B05D 5/00 (2006.01) C23C 16/458 (2006.01) C23C 16/54 (2006.01)**

[25] EN

[54] **DEPOSITION OF ULTRA-THIN FUNCTIONAL COATINGS ON FLEXIBLE MATERIALS**

[54] **DEPOT DE REVETEMENTS FONCTIONNELS ULTRA-MINCES SUR DES MATERIAUX SOUPLES**

[72] LOKE, JHI YONG, CA

[72] TEOH, CHEE HAU, CA

[72] MUSSELMAN, KEVIN, CA

[71] INFINITE NANOTECHNOLOGY INC., CA

[85] 2024-05-24

[86] 2022-11-24 (PCT/IB2022/061404)

[87] (WO2023/095060)

[30] US (63/282,896) 2021-11-24

[21] **3,239,135**  
[13] A1

[51] **Int.Cl. C12P 5/02 (2006.01) C02F 11/125 (2019.01) C02F 11/127 (2019.01) C02F 1/36 (2006.01) C12M 1/06 (2006.01)**

[25] EN

[54] **METHOD FOR PRODUCING PRODUCT GAS COMPRISING METHANE**

[54] **PROCEDE DE PRODUCTION D'UN PRODUIT DE GAZ COMPRENANT DU METHANE**

[72] JEPPESEN, MARTIN DAN, DK

[72] JONSON, BRIAN DAHL, DK

[72] ANDERSEN, LINA JOHANNA NABO, DK

[71] NATURE ENERGY BIOGAS A/S, DK

[85] 2024-05-24

[86] 2022-11-29 (PCT/DK2022/050251)

[87] (WO2023/093963)

[30] DK (PCT/DK2021/050348) 2021-11-29



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[21] **3,239,136**  
[13] A1

[51] **Int.Cl. E21B 43/16 (2006.01)**  
[25] EN  
[54] **GAS INJECTION METHOD AND SYSTEM FOR DEEP STRONG BOTTOM WATER SANDSTONE RESERVOIR**

[54] **PROCEDE ET SYSTEME D'INJECTION DE GAZ POUR GISEMENT DE GRES PROFOND ET RESISTANT D'EAU DE FOND**

[72] XU, TING, CN  
[72] HE, YINGFU, CN  
[72] LIAO, HAIYING, CN  
[72] CUI, MAOLEI, CN  
[72] NIE, JUN, CN  
[72] YANG, YANG, CN  
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN  
[71] SINOPEC EXPLORATION & PRODUCTION RESEARCH INSTITUTE, CN  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/CN2022/133843)  
[87] (WO2023/098543)  
[30] CN (202111448648.1) 2021-11-30

[21] **3,239,137**  
[13] A1

[51] **Int.Cl. F22B 21/02 (2006.01) F22B 21/34 (2006.01) F22B 31/00 (2006.01) F26B 3/084 (2006.01) F28D 1/053 (2006.01) F28D 13/00 (2006.01)**

[25] EN  
[54] **HEAT EXCHANGER ELEMENT AND USE THEREOF**

[54]

[72] STANKE, KLAUS, DE  
[71] ANDRITZ TECHNOLOGY AND ASSET MANAGEMENT GMBH, AT  
[85] 2024-05-24  
[86] 2022-11-03 (PCT/EP2022/080725)  
[87] (WO2023/104401)  
[30] AT (A50982/2021) 2021-12-09

[21] **3,239,138**  
[13] A1

[51] **Int.Cl. A01N 37/46 (2006.01)**  
[25] EN  
[54] **PLANT METABOLISM PROMOTING COMPOSITIONS AND METHODS OF USE**

[54] **COMPOSITIONS FAVORISANT LE METABOLISME DES PLANTES ET PROCEDES D'UTILISATION**

[72] STEINBRONN, JOSHUA MARK, US  
[72] MAAG, BRADLEY MICHAEL, US  
[71] STEINBRONN, JOSHUA MARK, US  
[71] MAAG, BRADLEY MICHAEL, US  
[85] 2024-05-24  
[86] 2022-12-02 (PCT/US2022/051720)  
[87] (WO2023/107346)  
[30] US (63/286,937) 2021-12-07  
[30] US (18/074,271) 2022-12-02

[21] **3,239,140**  
[13] A1

[51] **Int.Cl. H01B 11/22 (2006.01) H01B 3/46 (2006.01) H01B 7/02 (2006.01)**

[25] EN  
[54] **APROTIC CATALYSTS FOR THE HYDROLYSIS/CONDENSATION OF ORGANOALKOXY-SILANES**

[54] **CATALYSEURS APROTIQUES POUR HYDROLYSE / CONDENSATION D'ORGANOALKOXY-SILANES**

[72] BUSBY, DAVID C., US  
[71] NOVINIUM, LLC, US  
[85] 2024-05-24  
[86] 2022-12-09 (PCT/US2022/081303)  
[87] (WO2023/114695)  
[30] US (63/288,986) 2021-12-13

[21] **3,239,141**  
[13] A1

[51] **Int.Cl. C07D 471/14 (2006.01) A61K 31/437 (2006.01) A61K 31/4545 (2006.01) A61P 17/04 (2006.01) A61P 17/06 (2006.01) A61P 37/02 (2006.01)**

[25] EN  
[54] **NEW CRYSTAL FORM OF COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF**

[54] **NOUVELLE FORME CRISTALLINE DU COMPOSE, SON PROCEDE DE PREPARATION ET SON UTILISATION**

[72] LIU, PENGFEI, CN  
[72] SHEN, WANG, CN  
[72] GAO, HONGJUN, CN  
[72] DING, SHIZHE, CN  
[71] E-NITIATE BIOPHARMACEUTICALS (HANGZHOU) CO., LTD, CN  
[85] 2024-05-24  
[86] 2022-11-22 (PCT/CN2022/133494)  
[87] (WO2023/093718)  
[30] CN (PCT/CN2021/133228) 2021-11-25

[21] **3,239,142**  
[13] A1

[51] **Int.Cl. A23L 33/135 (2016.01) A61P 25/28 (2006.01)**

[25] EN  
[54] **METHODS AND USES OF MICROBIOME COMPOSITIONS, COMPONENTS, OR METABOLITES FOR TREATING VAGUS NERVE ASSOCIATED DISEASES, DISORDERS, AND CONDITIONS**

[54] **PROCEDES ET UTILISATIONS DE COMPOSITIONS, DE COMPOSANTS OU DE METABOLITES DU MICROBIOME POUR LE TRAITEMENT DE MALADIES, DE TROUBLES ET D'AFFECTIONS ASSOCIES AU NERF VAGUE**

[72] CHATTER, MUKESH, US  
[72] CHATTER, PRITI H., US  
[72] JAYAMANI, ELAMPARITHI, US  
[72] GOVINDAN, JOTHI AMARANATH, US  
[71] MARVELBIOME, INC., US  
[85] 2024-05-24  
[86] 2022-12-01 (PCT/US2022/051588)  
[87] (WO2023/102149)  
[30] US (63/285,383) 2021-12-02  
[30] US (63/330,149) 2022-04-12

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[21] **3,239,145**  
[13] A1

[51] **Int.Cl. A61K 35/745 (2015.01) A61K 35/747 (2015.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01)**

[25] EN

[54] **USE OF POSTBIOTICS IN THE TREATMENT AND/OR PREVENTION OF ANXIETY DISORDERS**

[54] **UTILISATION DE POSTBIOTIQUES DANS LE TRAITEMENT ET/OU LA PREVENTION DE TROUBLES DE L'ANXIETE**

[72] CHENOLL CUADROS, MARIA EMPAR, ES

[72] MARTORELL GUEROLA, PATRICIA, ES

[72] TORTAJADA SERRA, MARTA, ES

[72] RAMON VIDAL, DANIEL, ES

[72] ROJAS MARTINEZ, ANTONIA, ES

[72] BALAGUER VIDAL, FERRAN, ES

[72] LLOPIS PLA, SILVIA, ES

[72] MARTINEZ AVILA, ROBERTO, ES

[72] ROBLES RODRIGUEZ, VANESA, ES

[72] FERNANDEZ RIESCO, MARTA, ES

[71] BIOPOLIS, S.L., ES

[85] 2024-05-24

[86] 2022-12-16 (PCT/EP2022/086359)

[87] (WO2023/111270)

[30] EP (21383147.2) 2021-12-16

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[21] **3,239,146**  
[13] A1

[51] **Int.Cl. B60C 1/00 (2006.01) B60C 9/18 (2006.01) B60C 9/20 (2006.01)**

[25] FR

[54] **OPTIMIZED ARCHITECTURE OF A CIVIL ENGINEERING TYRE**

[54] **ARCHITECTURE OPTIMISEE DE PNEUMATIQUE DE GENIE CIVIL**

[72] CLEMENT, EMMANUEL, FR

[72] ROYER, THIERRY, FR

[72] BELLIDO-VERA, NATALIA, FR

[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR

[85] 2024-05-24

[86] 2022-12-05 (PCT/EP2022/084432)

[87] (WO2023/110499)

[30] FR (FR2113434) 2021-12-14

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[21] **3,239,147**  
[13] A1

[51] **Int.Cl. A01N 63/00 (2020.01) A01N 65/03 (2009.01) A01P 21/00 (2006.01) C12N 1/12 (2006.01)**

[25] EN

[54] **MICROALGAE COMPOSITIONS FOR HOST PLANT NUTRIENT UTILIZATION, ABIOTIC STRESS, AND SOIL FITNESS**

[54] **COMPOSITIONS DE MICROALGUES POUR L'EXPLOITATION DES NUTRIMENTS, LE STRESS ABIOTIQUE ET LA SANTE DU SOL DE PLANTES HOTES**

[72] LIU, XING LIANG, US

[72] WAGNER, DOUGLAS RY, US

[72] GUERRERO, MIGUEL GARCIA, ES

[71] AE AGRIBIOLOGICALS S.L., ES

[85] 2024-05-24

[86] 2022-11-23 (PCT/EP2022/083062)

[87] (WO2023/094493)

[30] US (63/283,182) 2021-11-24

[30] US (63/347,818) 2022-06-01

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[21] **3,239,148**  
[13] A1

[51] **Int.Cl. C07C 67/08 (2006.01) C07C 67/54 (2006.01) C07C 69/54 (2006.01)**

[25] EN

[54] **PROCESS FOR THE PRODUCTION OF C6-C12-ALKYL (METH)ACRYLIC ESTERS**

[54] **PROCEDE DE PRODUCTION D'ESTERS (METH)ACRYLIQUES EN C6-C12-ALKYLE**

[72] HECHLER, CLAUS, DE

[72] LANG, ORTMUND, DE

[72] HOFMANN, HORST, DE

[71] BASF SE, DE

[85] 2024-05-24

[86] 2022-11-17 (PCT/EP2022/082221)

[87] (WO2023/094252)

[30] EP (21210408.7) 2021-11-25

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[21] **3,239,149**  
[13] A1

[51] **Int.Cl. A01N 65/00 (2009.01) A01N 65/03 (2009.01) C05G 5/12 (2020.01) A01P 21/00 (2006.01) C05F 11/00 (2006.01) C05F 11/08 (2006.01)**

[25] EN

[54] **MICROALGAE AND BACTERIA-BASED PLANT NUTRITION COMPOSITIONS**

[54] **COMPOSITIONS DE NUTRITION VEGETALE A BASE DE MICROALGUES ET DE BACTERIES**

[72] CALLEJA, CARMELA PEREZ, ES

[72] WAGNER, DOUGLAS RY, US

[71] AE AGRIBIOLOGICALS S.L., ES

[85] 2024-05-24

[86] 2022-11-23 (PCT/EP2022/083065)

[87] (WO2023/094495)

[30] US (63/283,178) 2021-11-24

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[21] **3,239,150**  
[13] A1

[51] **Int.Cl. A01N 25/08 (2006.01) A01N 65/03 (2009.01) C05G 5/12 (2020.01) A01N 63/00 (2020.01) A01P 21/00 (2006.01) C05F 11/00 (2006.01) C05F 11/08 (2006.01)**

[25] EN

[54] **MICROALGAE AND MYCORRHIZAE-BASED PLANT NUTRITION COMPOSITIONS**

[54] **COMPOSITIONS DE NUTRITION DES VEGETAUX A BASE DE MICROALGUES ET DE MYCORRHIZES**

[72] WAGNER, DOUGLAS RY, US

[72] BENATTI, FABRICIO, BR

[71] AE AGRIBIOLOGICALS S.L., ES

[85] 2024-05-24

[86] 2022-11-23 (PCT/EP2022/083066)

[87] (WO2023/094496)

[30] US (63/283,165) 2021-11-24

[30] US (63/353,931) 2022-06-21

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[21] **3,239,151**  
[13] A1

[51] **Int.Cl. A01N 63/00 (2020.01)**  
[25] EN  
[54] **MICROALGAE-BASED BIOPROTECTION COMPOSITIONS AND METHODS FOR HOST PLANTS**  
[54] **COMPOSITIONS DE BIOPROTECTION A BASE DE MICROALGUES ET PROCEDES POUR DES PLANTES HOTES**  
[72] LIU, XING LIANG, US  
[72] CALLEJA, CARMELA PEREZ, ES  
[72] WAGNER, DOUGLAS RY, US  
[71] AE AGRIBIOLOGICALS S.L., ES  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/EP2022/083064)  
[87] (WO2023/094494)  
[30] US (63/283,184) 2021-11-24

[21] **3,239,152**  
[13] A1

[51] **Int.Cl. G06Q 10/0834 (2023.01) G06Q 30/04 (2012.01) G06Q 30/0283 (2023.01)**  
[25] EN  
[54] **CARRIER SELECTION EFFICIENCY ANALYZERS**  
[54] **ANALYSEURS D'EFFICACITE DE SELECTION DE PORTEUSE**  
[72] GORALEWSKI, JON PAUL, CA  
[72] LECKIE, LAWRENCE JOSEPH, CA  
[71] MANAGED TRANSPORTATION ANALYTICS LTD., CA  
[85] 2024-05-24  
[86] 2022-11-24 (PCT/IB2022/061405)  
[87] (WO2023/095061)  
[30] US (63/264,596) 2021-11-26

[21] **3,239,153**  
[13] A1

[51] **Int.Cl. A61B 10/00 (2006.01) B01L 3/00 (2006.01) G01N 27/403 (2006.01) G01N 33/487 (2006.01)**  
[25] EN  
[54] **SENSOR ASSEMBLY WITH WICKING MEMBER FOR LIQUID JUNCTION WET UP**  
[54] **ENSEMBLE CAPTEUR A ELEMENT A EFFET DE MECHE POUR HUMECTATION DE LA JONCTION LIQUIDE**  
[72] WOLFSON, MARK, US  
[72] PUDDUCK, CHRISTIAN, US  
[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US  
[85] 2024-05-24  
[86] 2022-12-13 (PCT/US2022/081408)  
[87] (WO2023/122446)  
[30] US (63/265,740) 2021-12-20

[21] **3,239,155**  
[13] A1

[51] **Int.Cl. C02F 3/00 (2006.01) C02F 11/00 (2006.01) C02F 11/04 (2006.01) C12M 1/00 (2006.01) C12M 1/107 (2006.01) C12M 1/34 (2006.01) C12M 1/42 (2006.01) C12P 5/02 (2006.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PRODUCING PRODUCT GAS COMPRISING METHANE**  
[54] **SYSTEME ET PROCEDE DE PRODUCTION D'UN PRODUIT DE GAZ COMPRENANT DU METHANE**  
[72] JEPPESEN, MARTIN DAN, DK  
[72] JONSON, BRIAN DAHL, DK  
[72] ANDERSEN, LINA JOHANNA NABO, DK  
[71] NATURE ENERGY BIOGAS A/S, DK  
[85] 2024-05-24  
[86] 2022-11-29 (PCT/DK2022/050252)  
[87] (WO2023/093964)  
[30] DK (PCT/DK2021/050349) 2021-11-29

[21] **3,239,158**  
[13] A1

[51] **Int.Cl. C12F 3/06 (2006.01) A23J 1/12 (2006.01)**  
[25] EN  
[54] **COARSE FIBER COMPOSITION**  
[54] **COMPOSITION DE FIBRES GROSSIERES**  
[72] VAN DEN ELZEN, JOOST, NL  
[72] MEIJER, JURGEN, NL  
[72] VERHOEK, TOM, NL  
[72] ZOETENDAAL, JORIS, NL  
[72] LOMMERS, MARCEL, NL  
[71] DUYNIE HOLDING BV, NL  
[85] 2024-05-24  
[86] 2022-12-02 (PCT/IB2022/061700)  
[87] (WO2023/100146)  
[30] BE (2021/5936) 2021-12-02

[21] **3,239,156**  
[13] A1

[51] **Int.Cl. B65H 19/12 (2006.01) H01M 10/04 (2006.01)**  
[25] EN  
[54] **AUTOMATIC SEPARATOR SUPPLY APPARATUS**  
[54] **DISPOSITIF D'ALIMENTATION DE SEPARATEUR AUTOMATIQUE**  
[72] KWON, KI SUN, KR  
[72] KANG, RYEON HO, KR  
[72] LEE, GIL YOUNG, KR  
[72] KIM, MIN KI, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2024-05-24  
[86] 2022-12-02 (PCT/KR2022/019533)  
[87] (WO2023/101519)  
[30] KR (10-2021-0171352) 2021-12-02  
[30] KR (10-2022-0166549) 2022-12-02

[21] **3,239,157**  
[13] A1

[51] **Int.Cl. H01M 8/18 (2006.01) H01M 8/0267 (2016.01) H01M 8/04276 (2016.01) B01D 61/42 (2006.01)**  
[25] EN  
[54] **BIPOLAR ELECTRODIALYSIS BASED FLOW BATTERY SYSTEM**  
[54] **SYSTEME DE BATTERIE A FLUX BASE SUR UNE ELECTRODIALYSE BIPOLAIRE**  
[72] CLELAND, KEITH, CA  
[71] AQUA-CELL ENERGY INC., CA  
[85] 2024-05-24  
[86] 2022-11-25 (PCT/IB2022/061441)  
[87] (WO2023/095076)  
[30] US (63/283,251) 2021-11-25  
[30] US (63/357,341) 2022-06-30

[21] **3,239,158**  
[13] A1

[51] **Int.Cl. C12F 3/06 (2006.01) A23J 1/12 (2006.01)**  
[25] EN  
[54] **COARSE FIBER COMPOSITION**  
[54] **COMPOSITION DE FIBRES GROSSIERES**  
[72] VAN DEN ELZEN, JOOST, NL  
[72] MEIJER, JURGEN, NL  
[72] VERHOEK, TOM, NL  
[72] ZOETENDAAL, JORIS, NL  
[72] LOMMERS, MARCEL, NL  
[71] DUYNIE HOLDING BV, NL  
[85] 2024-05-24  
[86] 2022-12-02 (PCT/IB2022/061700)  
[87] (WO2023/100146)  
[30] BE (2021/5936) 2021-12-02

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[21] **3,239,159**  
[13] A1

[51] **Int.Cl. A61B 1/00 (2006.01) A61B 1/045 (2006.01)**  
[25] EN  
[54] **SURGERY ASSISTING SYSTEM, SURGERY ASSISTING METHOD, AND SURGERY ASSISTING PROGRAM**  
[54] **SYSTEME D'AIDE A LA CHIRURGIE, PROCEDE D'AIDE A LA CHIRURGIE ET PROGRAMME D'AIDE A LA CHIRURGIE**  
[72] MATSUZAKI, HIROKI, JP  
[72] TANASE, MASAYASU, JP  
[72] TAKESHITA, NOBUYOSHI, JP  
[71] JMEES INC., JP  
[85] 2024-05-24  
[86] 2022-10-18 (PCT/JP2022/038698)  
[87] (WO2023/095492)  
[30] JP (2021-192441) 2021-11-26

[21] **3,239,160**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01)**  
[25] EN  
[54] **PARTICLES, AQUEOUS DISPERSIONS, AND LIQUID COMPOSITIONS HAVING HIGH LIPOPHILIC COMPONENT CONCENTRATIONS AND HIGH LIPOPHILIC COMPONENT TO SURFACTANT RATIOS**  
[54] **PARTICULES, DISPERSIONS AQUEUSES, ET COMPOSITIONS LIQUIDES AYANT DES CONCENTRATIONS DE COMPOSANTS LIPOPHILES ELEVEES ET UN COMPOSANT LIPOPHILE ELEVE POUR DES RAPPORTS TENSIOACTIFS**  
[72] MITCHNICK, MARK, US  
[71] SPOKE SCIENCES, INC., US  
[85] 2024-05-24  
[86] 2022-12-01 (PCT/US2022/051563)  
[87] (WO2023/102134)  
[30] US (63/284,921) 2021-12-01

[21] **3,239,161**  
[13] A1

[51] **Int.Cl. B25J 11/00 (2006.01) B25J 13/08 (2006.01) B25J 15/00 (2006.01) B25J 15/02 (2006.01) B25J 15/06 (2006.01) B25J 15/08 (2006.01)**  
[25] EN  
[54] **MECHANICAL GRAPPLE FOR HIGH-PRESSURE PROCESSING CONTAINERS AND METHOD FOR HANDLING HIGH-PRESSURE PROCESSING CONTAINERS USING SAID MECHANICAL GRAPPLE**  
[54] **DISPOSITIF DE RETENUE MECANIQUE POUR CONTENEURS DE TRAITEMENT A HAUTE PRESSION ET METHODE DE MANIPULATION DE CONTENEURS DE TRAITEMENT A HAUTE PRESSION UTILISANT LEDIT DISPOSITIF DE RETENUE MECANIQUE**  
[72] HERNANDO SAIZ, CARLOS, ES  
[71] DESARROLLO DE MAQUINAS Y SOLUCIONES AUTOMATICAS S.L. (DESMASA), ES  
[85] 2024-05-24  
[86] 2021-11-30 (PCT/ES2021/070862)  
[87] (WO2023/099794)

[21] **3,239,162**  
[13] A1

[51] **Int.Cl. E04G 1/24 (2006.01) E06C 1/39 (2006.01) E04G 1/30 (2006.01) E06C 1/397 (2006.01)**  
[25] EN  
[54] **MODULAR SYSTEM OF PLATFORMS FOR USE ON A GROUND SURFACE**  
[54] **SYSTEME MODULAIRE DE PLATEFORMES DESTINE A ETRE UTILISE SUR UNE SURFACE DE SOL**  
[72] HAMMONS, WALLACE N., US  
[71] HAMMONS, WALLACE N., US  
[85] 2024-05-24  
[86] 2022-11-30 (PCT/US2022/051329)  
[87] (WO2023/102005)  
[30] US (17/537,712) 2021-11-30

[21] **3,239,164**  
[13] A1

[51] **Int.Cl. H04W 4/33 (2018.01) H04W 4/38 (2018.01)**  
[25] EN  
[54] **APPARATUS, METHOD AND COMPUTER PROGRAM FOR REMOTE MONITORING OF ENVIRONMENTAL CONDITIONS WITHIN A PLURALITY OF BUILDINGS**  
[54] **APPAREIL, PROCEDE ET PROGRAMME D'ORDINATEUR POUR LA SURVEILLANCE A DISTANCE DES CONDITIONS ENVIRONNEMENTALES DANS UNE PLURALITE DE BATIMENTS**  
[72] SMITH, ANDREW, GB  
[72] HOLROYD, DALE, GB  
[71] ZAPCARBON LIMITED, GB  
[85] 2024-05-24  
[86] 2022-11-25 (PCT/GB2022/052993)  
[87] (WO2023/094824)  
[30] GB (2117045.1) 2021-11-25

[21] **3,239,165**  
[13] A1

[51] **Int.Cl. E05B 9/08 (2006.01) E05B 11/00 (2006.01) E05B 17/00 (2006.01) E05B 27/00 (2006.01) E05B 47/06 (2006.01) E05B 15/16 (2006.01)**  
[25] EN  
[54] **BLOCKING DEVICE FOR A CLOSURE ELEMENT OR A SWITCHING ELEMENT**  
[54] **DISPOSITIF DE BLOCAGE DESTINE A UN ELEMENT DE FERMETURE OU A UN ELEMENT DE COMMUTATION**  
[72] KOLLIKER, MARCEL, CH  
[72] DI SARIO, FRANCO, CH  
[72] ZAHNER, MARKUS, CH  
[71] DORMAKABA SCHWEIZ AG, CH  
[85] 2024-05-24  
[86] 2022-12-02 (PCT/EP2022/084237)  
[87] (WO2023/099747)  
[30] EP (21212254.3) 2021-12-03

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<p style="text-align: center;">[21] <b>3,239,166</b> [13] A1</p> <p>[51] <b>Int.Cl. F24T 10/10 (2018.01)</b> [25] EN [54] <b>A SYSTEM AND A METHOD FOR GEOTHERMAL HEATING AND COOLING BASED ON ADVECTION</b> [54] <b>SYSTEME ET PROCEDE DE CHAUFFAGE ET DE REFROIDISSEMENT GEOTHERMIQUES BASES SUR ADVECTION</b> [72] KAPREKAR, MANDAR SHRIDHAR, IN [71] GENESYS US LLC, US [85] 2024-05-24 [86] 2022-11-25 (PCT/IN2022/051032) [87] (WO2023/095172) [30] IN (202121054521) 2021-11-25</p>	<p style="text-align: center;">[21] <b>3,239,168</b> [13] A1</p> <p>[51] <b>Int.Cl. G07C 9/00 (2020.01) H04L 9/08 (2006.01) H04L 9/40 (2022.01)</b> [25] EN [54] <b>BLOCKCHAIN FOR ACCESS CONTROL</b> [54] <b>CHAINE DE BLOCS DE CONTROLE D'ACCES</b> [72] BAUMGARTE, JOSEPH W., US [72] MARTENS, ROBERT, US [72] NEAL, SEAN, US [71] SCHLAGE LOCK COMPANY LLC, US [85] 2024-05-24 [86] 2022-11-23 (PCT/US2022/050870) [87] (WO2023/096974) [30] US (17/534,818) 2021-11-24</p>	<p style="text-align: center;">[21] <b>3,239,170</b> [13] A1</p> <p>[51] <b>Int.Cl. C25B 1/04 (2021.01) C25B 9/75 (2021.01) C25B 9/77 (2021.01) C25B 11/032 (2021.01) C25B 11/052 (2021.01) C25B 11/063 (2021.01) C25B 11/075 (2021.01) C25B 11/077 (2021.01)</b> [25] EN [54] <b>POROUS TRANSPORT LAYER FOR USE IN A POLYMER ELECTROLYTE MEMBRANE ELECTROLYZER, AN ELECTROLYZER COMPRISING SAID POROUS TRANSPORT LAYER, A METHOD FOR OBTAINING SAID POROUS TRANSPORT LAYER AND A METHOD FOR ELECTROLYSING WATER USING SAID POROUS TRANSPORT LAYER</b> [54] <b>COUCHE DE TRANSPORT POREUSE DESTINEE A ETRE UTILISEE DANS UN ELECTROLYSEUR A MEMBRANE ELECTROLYTIQUE POLYMERE, ELECTROLYSEUR COMPRENANT LADITE COUCHE DE TRANSPORT POREUSE, PROCEDE D'OBTENTION DE LADITE COUCHE DE TRANSPORT POREUSE ET PROCEDE D'ELECTROLYSE D'EAU A L'AIDE DE LADITE COUCHE DE TRANSPORT POREUS</b> [72] VOS, JOHANNES GODFRIED, NL [72] VAN SCHOONEVELD, MATTI, NL [72] JEREMIASSE, ADRIAAN W., NL [71] MAGNETO SPECIAL ANODES B.V., NL [85] 2024-05-24 [86] 2022-12-16 (PCT/EP2022/086464) [87] (WO2023/111321) [30] US (63/290,724) 2021-12-17 [30] US (63/306,710) 2022-02-04</p>
<p style="text-align: center;">[21] <b>3,239,167</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 33/30 (2006.01) A61K 8/9789 (2017.01) A61K 8/27 (2006.01) A61K 8/36 (2006.01) A61K 8/49 (2006.01) A61K 9/06 (2006.01) A61K 31/194 (2006.01) A61K 31/353 (2006.01) A61K 36/45 (2006.01) A61P 1/00 (2006.01) A61P 1/02 (2006.01) A61P 17/00 (2006.01) A61P 29/00 (2006.01) A61Q 19/00 (2006.01) C07C 59/265 (2006.01) C07D 311/62 (2006.01)</b> [25] EN [54] <b>COMPOSITIONS COMPRISING PROANTHOCYANIDINS AND ZINC FOR TREATING AND/OR PREVENTING INFLAMMATION</b> [54] <b>COMPOSITIONS COMPRENANT DES PROANTHOCYANIDINES ET DU ZINC POUR TRAITER ET/OU PREVENIR UNE INFLAMMATION</b> [72] COTE, JEAN-PHILIPPE, CA [72] ADAM, ANDREE-ANN, CA [71] ANIMORA INC., CA [85] 2024-05-24 [86] 2022-12-01 (PCT/CA2022/051759) [87] (WO2023/097398) [30] US (63/264,733) 2021-12-01</p>	<p style="text-align: center;">[21] <b>3,239,169</b> [13] A1</p> <p>[51] <b>Int.Cl. A62B 17/00 (2006.01) A62B 17/04 (2006.01)</b> [25] EN [54] <b>A CBRN COAT</b> [54] <b>COMBINAISON CBRN</b> [72] GHEKIERE, FILIP, BE [72] SMISSAERT, LIEVEN, BE [71] SEYNTEX, BE [85] 2024-05-24 [86] 2022-12-16 (PCT/EP2022/086401) [87] (WO2023/134961) [30] EP (22075002.0) 2022-01-17</p>	

## PCT Applications Entering the National Phase

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[21] **3,239,171**  
[13] A1

[51] **Int.Cl. A24F 40/10 (2020.01) A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/46 (2020.01)**

[25] EN

[54] **ELECTRONIC ATOMIZING DEVICE**

[54] **DISPOSITIF D'ATOMISATION ELECTRONIQUE**

[72] DENG, XIAOGANG, CN

[72] PENG, XIAOFENG, CN

[71] SHANGHAI KUNWEI TECHNOLOGY LIMITED, CN

[85] 2024-05-24

[86] 2022-11-22 (PCT/CN2022/133569)

[87] (WO2023/093732)

[30] CN (202111420823.6) 2021-11-26

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[21] **3,239,172**  
[13] A1

[51] **Int.Cl. G01N 11/00 (2006.01) G01N 11/04 (2006.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR MEASURING THE KINEMATIC VISCOSITY OF A FREE FLUID STREAM**

[54] **PROCEDE ET SYSTEME DE MESURE DE LA VISCOSITE CINEMATIQUE D'UN FLUX DE FLUIDE LIBRE**

[72] JANIAUD, ERIC, FR

[72] ZAMI-PIERRE, FREDERIC, FR

[72] OUERGHEMMI, EZZEDDINE, FR

[72] BARBA ROSSA, GUILLAUME, FR

[71] SAINT-GOBAIN ISOVER, FR

[85] 2024-05-24

[86] 2022-12-16 (PCT/EP2022/086258)

[87] (WO2023/111226)

[30] EP (EP21215695) 2021-12-17

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[21] **3,239,173**  
[13] A1

[51] **Int.Cl. C07D 487/22 (2006.01)**

[25] EN

[54] **PHOTODYNAMIC THERAPY AND DIAGNOSIS**

[54] **THERAPIE ET DIAGNOSTIC PHOTODYNAMIQUES**

[72] MARCUCCIO, SEBASTIAN M., AU

[72] STEPHENS, ANDREW N., AU

[72] DONNER, CHRISTOPHER D., AU

[72] CHO, HONSUE, AU

[72] NOVAKOVIC, SACHA, AU

[72] AILURI, RAMESH, AU

[71] RMW CHO GROUP LIMITED, CN

[85] 2024-05-24

[86] 2022-11-28 (PCT/EP2022/083551)

[87] (WO2023/094677)

[30] GB (2117133.5) 2021-11-26

[30] GB (2208157.4) 2022-06-01

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[21] **3,239,174**  
[13] A1

[51] **Int.Cl. G06V 10/147 (2022.01) G06T 7/50 (2017.01) G06V 10/82 (2022.01) G06V 40/20 (2022.01)**

[25] EN

[54] **METHOD AND APPARATUS FOR OPTICAL DETECTION AND ANALYSIS IN A MOVEMENT ENVIRONMENT**

[54] **PROCEDE ET APPAREIL DE RECONNAISSANCE ET D'ANALYSE OPTIQUES DANS UN ENVIRONNEMENT DE MOUVEMENT**

[72] SIEKMANN, PASCAL, DE

[72] DICK, GERHARD, DE

[71] HEERO SPORTS GMBH, DE

[85] 2024-05-24

[86] 2022-12-16 (PCT/EP2022/086255)

[87] (WO2023/117723)

[30] DE (10 2021 006 307.4) 2021-12-22

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[21] **3,239,175**  
[13] A1

[51] **Int.Cl. A61B 17/34 (2006.01)**

[25] EN

[54] **A TROCAR FIXATION ASSEMBLY**

[54] **ENSEMBLE DE FIXATION DE TROCART**

[72] ROSENGREN, OSCAR, SE

[71] MOLNLYCKE HEALTH CARE AB, SE

[85] 2024-05-24

[86] 2022-11-10 (PCT/EP2022/081421)

[87] (WO2023/094171)

[30] EP (21210488.9) 2021-11-25

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[21] **3,239,176**  
[13] A1

[51] **Int.Cl. B65F 1/14 (2006.01) G06Q 50/10 (2012.01) B65F 1/16 (2006.01) G01G 19/00 (2006.01)**

[25] EN

[54] **APPARATUS, SYSTEM AND METHOD FOR USE IN COMMERCIAL AND INDUSTRIAL WASTE MANAGEMENT**

[54] **APPAREIL, SYSTEME ET PROCEDE DE GESTION DES DECHETS COMMERCIAUX ET INDUSTRIELS**

[72] NORTHEY, ALEX, AU

[72] JONES, SOLOMON, AU

[71] WASTE CHECK AUSTRALIA PTY LTD, AU

[85] 2024-05-24

[86] 2022-11-27 (PCT/AU2022/051421)

[87] (WO2023/092194)

[30] AU (2021903839) 2021-11-26

[30] AU (2021903928) 2021-12-03

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[21] **3,239,177**  
[13] A1

[51] **Int.Cl. C07D 487/22 (2006.01)**

[25] EN

[54] **PHOTODYNAMIC THERAPY AND DIAGNOSIS**

[54] **THERAPIE ET DIAGNOSTIC PHOTODYNAMIQUES**

[72] MARCUCCIO, SEBASTIAN M., AU

[72] STEPHENS, ANDREW N., AU

[72] DONNER, CHRISTOPHER D., AU

[72] CHO, HONSUE, AU

[72] NOVAKOVIC, SACHA, AU

[71] RMW CHO GROUP LIMITED, CN

[85] 2024-05-24

[86] 2022-11-28 (PCT/EP2022/083554)

[87] (WO2023/094680)

[30] GB (2117140.0) 2021-11-26

[30] GB (2208167.3) 2022-06-01

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[21] **3,239,179**  
[13] A1

[51] **Int.Cl. B23K 26/0622 (2014.01) B23K 26/36 (2014.01) B29C 71/04 (2006.01) B29D 11/02 (2006.01)**

[25] EN

[54] **PLASTIC MATERIAL, AND METHOD FOR PROCESSING A PLASTIC MATERIAL**

[54] **MATIERE PLASTIQUE ET PROCEDE DE TRAITEMENT D'UNE MATIERE PLASTIQUE**

[72] POPRAWA, REINHART, DE

[72] VON WALLFELD, AXEL, DE

[72] CLASEN, UWE, DE

[71] AIXLENS GMBH, DE

[85] 2024-05-24

[86] 2022-08-16 (PCT/DE2022/000093)

[87] (WO2023/093926)

[30] DE (10 2021 005 859.3) 2021-11-25

[30] DE (10 2022 000 647.2) 2022-02-22

[21] **3,239,180**  
[13] A1

[51] **Int.Cl. C04B 28/14 (2006.01) C04B 28/16 (2006.01)**

[25] EN

[54] **A CEMENTITIOUS PRODUCT**

[54] **PRODUIT CIMENTAIRE**

[72] NIETO BARTOLOME, PABLO, FR

[72] DOMINGUEZ MARTINEZ, ALEJANDRO, FR

[72] PARDO COBO, FERNANDO, FR

[71] SAINT-GOBAIN PLACO, FR

[85] 2024-05-24

[86] 2022-12-21 (PCT/EP2022/087341)

[87] (WO2023/118365)

[30] EP (21383204.1) 2021-12-23

[21] **3,239,181**  
[13] A1

[51] **Int.Cl. H10K 30/00 (2023.01) H10K 99/00 (2023.01)**

[25] EN

[54] **METHODS FOR FORMING PEROVSKITE MATERIAL LAYERS**

[54] **PROCEDES DE FORMATION DE COUCHES DE MATERIAU DE PEROVSKITE**

[72] IRWIN, MICHAEL D., US

[72] NGUYEN, MINH TU, US

[72] DHAS, VIVEK V., US

[72] SANEHIRA, ERIN, US

[72] MITCHELL, MARISSA, US

[71] CUBICPV, INC., US

[85] 2024-05-24

[86] 2022-11-28 (PCT/US2022/051100)

[87] (WO2023/097087)

[30] US (63/283,525) 2021-11-28

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

[51] **Int.Cl. A61K 39/395 (2006.01) A61P 11/06 (2006.01) C07K 16/28 (2006.01) C07K 16/46 (2006.01) C12N 15/13 (2006.01)**

[25] EN

[54] **STABLE ANTIBODY PREPARATION**

[54] **PREPARATION D'ANTICORPS STABLE**

[72] SU, ZHIPENG, CN

[72] WANG, YANG, CN

[72] XIE, WEI, CN

[71] REGENECORE BIOTECH CO., LTD, CN

[85] 2024-05-24

[86] 2023-04-14 (PCT/CN2023/088385)

[87] (WO2023/226617)

[30] CN (202210561675.8) 2022-05-23

[21] **3,239,183**  
[13] A1

[51] **Int.Cl. C12N 1/19 (2006.01) C12N 15/52 (2006.01) C12P 17/18 (2006.01)**

[25] EN

[54] **PRODUCTION OF D-LYSERGIC ACID**

[54] **PRODUCTION D'ACIDE D-LYSERGIQUE**

[72] WONG, WEI JIE GARRETT, SG

[72] LIM, LI RONG, SG

[72] GO, MAYBELLE DARLENE KHO, SG

[72] YEW, WEN SHAN, SG

[72] FREEMONT, PAUL S., GB

[72] BELL, DAVID JOHN, GB

[71] NATIONAL UNIVERSITY OF SINGAPORE, SG

[71] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB

[85] 2024-05-24

[86] 2022-11-18 (PCT/SG2022/050840)

[87] (WO2023/096577)

[30] SG (10202113177P) 2021-11-26

[21] **3,239,184**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**

[25] EN

[54] **METHOD OF ASYNCHRONOUS DATA COMMUNICATION AND REGISTRATION OF A USER EQUIPMENT**

[54] **METHODE DE COMMUNICATION ASYNCHRONE DE DONNEES ET D'ENREGISTREMENT D'UN MATERIEL UTILISATEUR**

[72] CALVERAS AUGÉ, ANA MARIA, ES

[72] RIGAZZI, GIOVANNI, ES

[72] KELLERMANN, TIMO, ES

[72] CAMPS MUR, DANIEL, ES

[72] GUADALUPI, MARCO, ES

[72] SANPERA IZOARD, JAUME, ES

[71] SATELIO IOT SERVICES, S.L., ES

[85] 2024-05-24

[86] 2021-11-24 (PCT/ES2021/070847)

[87] (WO2023/094715)

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[21] **3,239,185**  
[13] A1

[51] **Int.Cl. C09D 11/03 (2014.01) H01L 31/032 (2006.01)**  
[25] EN  
[54] **LEAD-SEQUESTRATION MATERIAL FOR PEROVSKITE DEVICES**  
[54] **MATERIAU DE SEQUESTRATION DU PLOMB POUR DISPOSITIFS DE PEROVSKITE**  
[72] IRWIN, MICHAEL D., US  
[72] NGUYEN, MINH TU, US  
[71] CUBICPV, INC., US  
[85] 2024-05-24  
[86] 2022-11-28 (PCT/US2022/051103)  
[87] (WO2023/097089)  
[30] US (63/283,514) 2021-11-28

[21] **3,239,186**  
[13] A1

[51] **Int.Cl. G06Q 30/0242 (2023.01)**  
[25] EN  
[54] **TECHNIQUES FOR SEGMENTING USERS BASED ON USER BEHAVIORS ACROSS ELECTRONIC COMMUNICATION CHANNELS**  
[54] **TECHNIQUES POUR SEGMENTER DES UTILISATEURS SUR LA BASE DE COMPORTEMENTS D'UTILISATEUR A TRAVERS DES CANAUX DE COMMUNICATION ELECTRONIQUES**  
[72] AWASTHI, ANKIT, US  
[72] AGARWAL, AYUSH, US  
[72] LY, STEVEN, US  
[72] MAHAJAN, PRAATEEK, US  
[72] COBURN, WAYNE, US  
[71] ITERABLE, INC., US  
[85] 2024-05-24  
[86] 2022-12-06 (PCT/US2022/081022)  
[87] (WO2023/107949)  
[30] US (17/544,340) 2021-12-07

[21] **3,239,187**  
[13] A1

[51] **Int.Cl. C07F 9/6512 (2006.01) A61K 31/675 (2006.01) A61P 35/00 (2006.01) C07C 309/30 (2006.01)**  
[25] EN  
[54] **MONO-P-TOLUENESULFONATE OF AXL KINASE INHIBITOR AND CRYSTAL FORM THEREOF**  
[54] **MONO-P-TOLUENESULFONATE D'INHIBITEUR DE KINASE AXL ET FORME CRISTALLINE DE CELUI-CI**  
[72] MA, CHANGYOU, CN  
[72] ZHANG, LINLIN, CN  
[72] FENG, HAIWEI, CN  
[72] ZHAO, TINGLI, CN  
[72] WU, JIAN, CN  
[72] XU, DAN, CN  
[72] ZHU, CHUNXIA, CN  
[72] TIAN, ZHOUSHAN, CN  
[71] NANJING CHIA TAI TIANQING PHARMACEUTICAL CO., LTD., CN  
[85] 2024-05-24  
[86] 2022-11-25 (PCT/CN2022/134410)  
[87] (WO2023/093861)  
[30] CN (202111425629.7) 2021-11-26

[21] **3,239,188**  
[13] A1

[51] **Int.Cl. F16H 1/28 (2006.01) F16H 1/36 (2006.01) F16H 3/58 (2006.01) F16H 33/02 (2006.01) F16H 33/08 (2006.01)**  
[25] EN  
[54] **DEVICE FOR INCREASING THE EFFICIENCY OF ANY ROTARY POWER GENERATING SYSTEM WITH PROGRESSIVE VARIATION**  
[54] **DISPOSITIF POUR AUGMENTER L'EFFICACITE D'UN QUELCONQUE SYSTEME DE GENERATION D'ENERGIE ROTATIF A VARIATION PROGRESSIVE**  
[72] CIOLACU, STEFAN, RO  
[72] MAURER, SIMON-ANDREAS, RO  
[71] CIOLACU, STEFAN, RO  
[71] MAURER, SIMON-ANDREAS, RO  
[85] 2024-05-24  
[86] 2022-11-04 (PCT/RO2022/000011)  
[87] (WO2023/096517)  
[30] RO (A 2021 00715) 2021-11-25

[21] **3,239,189**  
[13] A1

[51] **Int.Cl. A47J 27/00 (2006.01) A47J 31/10 (2006.01) A47J 31/44 (2006.01) A47J 31/46 (2006.01) A47J 31/54 (2006.01) A47J 36/08 (2006.01) A47J 36/16 (2006.01)**  
[25] EN  
[54] **ONE TOUCH COOKER**  
[54] **APPAREIL DE CUISSON A UNE TOUCHE**  
[72] WOLF, MARK, US  
[71] WOLF, MARK, US  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/US2022/050976)  
[87] (WO2023/097051)  
[30] US (17/535,949) 2021-11-26

[21] **3,239,190**  
[13] A1

[51] **Int.Cl. A01B 39/18 (2006.01) A01B 39/22 (2006.01) A01B 39/24 (2006.01)**  
[25] FR  
[54] **TOOL BLOCK FOR AN AGRICULTURAL MACHINE, AGRICULTURAL MACHINE PROVIDED WITH A TOOL BLOCK OF THIS KIND, AND METHOD FOR ADJUSTING THE TOOL BLOCK**  
[54] **BLOC OUTIL POUR MACHINE AGRICOLE, MACHINE AGRICOLE EQUIPEE D'UN TEL BLOC OUTIL ET PROCEDE DE REGLAGE DU BLOC OUTIL**  
[72] MATHIEU, BRUNO, FR  
[72] FRAISIER VANNIER, CLEMENT, FR  
[72] MOINDRAULT, DENIS, FR  
[72] SEVERAC, GAETAN, FR  
[72] BARTHES, AYMERIC, FR  
[71] NAIIO-TECHNOLOGIES, FR  
[85] 2024-05-24  
[86] 2022-11-24 (PCT/EP2022/083148)  
[87] (WO2023/094532)  
[30] FR (2112498) 2021-11-25



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[21] **3,239,191**  
[13] A1

[51] **Int.Cl. C07D 215/48 (2006.01) A61K 31/37 (2006.01) C07D 311/08 (2006.01) C07D 311/12 (2006.01) C07D 311/14 (2006.01) C07D 403/10 (2006.01) C07D 407/04 (2006.01)**

[25] FR

[54] **LIGANDS SPECIFICALLY TARGETING VESICULAR GLUTAMATE TRANSPORTERS FOR SUPER-RESOLUTION IMAGING**

[54] **LIGANDS CIBLANT SPECIFIQUEMENT LES TRANSPORTEURS VESICULAIRES DU GLUTAMATE POUR L'IMAGERIE A SUPER-RESOLUTION**

[72] PIETRANCOSTA, NICOLAS, FR  
[72] EL MESTIKAWY, SALAH, CA  
[72] BERNARD, VERONIQUE, FR  
[72] DJIBO, MAHAMADOU, FR  
[72] CHAUSSET-BOISSARIE, LAETITIA, FR  
[72] DAUMAS, STEPHANIE, FR  
[72] POIREL, ODILE, FR  
[72] CRISTOFARI, PAOLA, FR  
[71] ECOLE NORMALE SUPERIEURE, FR  
[71] SORBONNE UNIVERSITE, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[71] UNIVERSITE DE PARIS, FR  
[85] 2024-05-24  
[86] 2021-11-26 (PCT/FR2021/052112)  
[87] (WO2023/094734)

[21] **3,239,192**  
[13] A1

[51] **Int.Cl. H04L 67/025 (2022.01) G06F 9/451 (2018.01) H04L 9/40 (2022.01) H04L 67/104 (2022.01) H04L 67/1061 (2022.01)**

[25] FR

[54] **METHOD FOR REMOTELY TAKING CONTROL OF A PAYMENT TERMINAL OR SIMILAR, AND ASSOCIATED PAYMENT TERMINAL**

[54] **PROCEDE DE PRISE DE CONTROLE A DISTANCE D'UN TERMINAL DE PAIEMENT OU ASSIMILE, TERMINAL DE PAIEMENT ASSOCIE**

[72] REIFFSTECK, LAURENT, FR  
[72] MOURAND, OLIVIER, FR  
[71] BANKS AND ACQUIRERS INTERNATIONAL HOLDING, FR  
[85] 2024-05-24  
[86] 2022-11-23 (PCT/EP2022/082922)  
[87] (WO2023/094427)  
[30] FR (FR2112601) 2021-11-26

[21] **3,239,194**  
[13] A1

[51] **Int.Cl. A61K 36/06 (2006.01) A61K 36/064 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) C12N 15/867 (2006.01)**

[25] EN

[54] **YEAST-BASED EXPRESSION OF THERAPEUTIC PROTEINS IN VIVO**

[54] **EXPRESSION FONDEE SUR UNE LEVURE DE PROTEINES THERAPEUTIQUES IN VIVO**

[72] O' HAGAN, DAVID JAMES, US  
[71] ESPEROVAX INC., US  
[85] 2024-05-24  
[86] 2021-11-24 (PCT/US2021/060865)  
[87] (WO2022/115635)  
[30] US (63/118,610) 2020-11-25

[21] **3,239,211**  
[13] A1

[51] **Int.Cl. C04B 7/36 (2006.01) C04B 7/43 (2006.01) F27B 7/20 (2006.01) F27B 7/38 (2006.01) F27B 7/40 (2006.01)**

[25] EN

[54] **CEMENT MANUFACTURING PLANT AND METHOD OF OPERATING A CEMENT MANUFACTURING PLANT**

[54] **INSTALLATION DE FABRICATION DE CIMENT ET PROCEDE DE FONCTIONNEMENT D'UNE INSTALLATION DE FABRICATION DE CIMENT**

[72] BUCHER, ERNST, CH  
[72] WIMMERT, DIRK, CH  
[71] HOLCIM TECHNOLOGY LTD, CH  
[85] 2024-05-27  
[86] 2022-11-30 (PCT/IB2022/061594)  
[87] (WO2023/100099)  
[30] EP (21020608.2) 2021-12-02

[21] **3,239,213**  
[13] A1

[51] **Int.Cl. A61K 38/10 (2006.01) A61K 38/39 (2006.01) A61P 9/00 (2006.01) A61P 11/00 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **SCO-SPONDIN-DERIVED POLYPEPTIDES FOR TREATING BIOLOGICAL BARRIERS DYSFUNCTION**

[54] **POLYPEPTIDES DERIVES DE SCO-SPONDINE POUR LE TRAITEMENT D'UN DYSFONCTIONNEMENT DES BARRIERS BIOLOGIQUES**

[72] LEMARCHANT, SIGHILD BRUNHILDE ADELINE, FR  
[72] GODFRIN, YANN, FR  
[71] AXOLTIS PHARMA, FR  
[85] 2024-05-27  
[86] 2022-12-01 (PCT/EP2022/084014)  
[87] (WO2023/099651)  
[30] EP (21306683.0) 2021-12-01

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[21] **3,239,221**  
[13] A1

[51] **Int.Cl. G06Q 40/04 (2012.01) G06Q 50/06 (2012.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR A BLOCKCHAIN BASED PLATFORM WITH LONG RANGE P2P ENERGY TRANSFER**  
[54] **SYSTEME ET PROCEDE POUR UNE PLATEFORME A BASE DE CHAINE DE BLOCS AVEC TRANSFERT D'ENERGIE P2P A LONGUE PORTEE**  
[72] KRISHNASWAMY, DILIP, IN  
[72] BHAMRAH, DIPENDER, IN  
[71] JIO PLATFORMS LIMITED, IN  
[85] 2024-05-27  
[86] 2022-11-28 (PCT/IB2022/061472)  
[87] (WO2023/095085)  
[30] IN (202121055067) 2021-11-29

[21] **3,239,225**  
[13] A1

[51] **Int.Cl. G21D 3/04 (2006.01)**  
[25] EN  
[54] **MONITORING AND CONTROLLING SYSTEM**  
[54]  
[72] OKUDA, SUSUMU, JP  
[71] MITSUBISHI ELECTRIC CORPORATION, JP  
[85] 2024-05-27  
[86] 2022-01-25 (PCT/JP2022/002513)  
[87] (WO2023/144857)

[21] **3,239,227**  
[13] A1

[51] **Int.Cl. G01T 1/17 (2006.01) G01T 3/00 (2006.01) G21C 17/12 (2006.01)**  
[25] EN  
[54] **LEARNING DEVICE AND NEUTRON MEASUREMENT DEVICE**  
[54]  
[72] AZUMA, TETSUSHI, JP  
[72] SASANO, MAKOTO, JP  
[71] MITSUBISHI ELECTRIC CORPORATION, JP  
[85] 2024-05-27  
[86] 2022-03-02 (PCT/JP2022/008785)  
[87] (WO2023/166592)

[21] **3,239,228**  
[13] A1

[51] **Int.Cl. C07D 209/52 (2006.01)**  
[25] EN  
[54] **METHODS FOR THE SYNTHESIS OF COMPLEMENT FACTOR D INHIBITORS AND INTERMEDIATES THEREOF**  
[54] **PROCEDES DE SYNTHESE D'INHIBITEURS DU FACTEUR D DU COMPLEMENT ET D'INTERMEDIAIRES DE CEUX-CI**  
[72] HASHIMOTO, AKIHIRO, US  
[72] PHADKE, AVINASH, US  
[72] RAI U, SANKAPPA, IN  
[72] CHANDRAN, PRABU, IN  
[71] ALEXION PHARMACEUTICALS, INC., US  
[85] 2024-05-27  
[86] 2022-12-13 (PCT/US2022/052695)  
[87] (WO2023/114200)  
[30] US (63/289,368) 2021-12-14

[21] **3,239,230**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) C07D 403/10 (2006.01)**  
[25] EN  
[54] **METHODS FOR THE SYNTHESIS OF COMPLEMENT FACTOR D INHIBITORS**  
[54] **PROCEDES DE SYNTHESE D'INHIBITEURS DU FACTEUR D DU COMPLEMENT**  
[72] HASHIMOTO, AKIHIRO, US  
[71] ALEXION PHARMACEUTICALS, INC., US  
[85] 2024-05-27  
[86] 2022-12-13 (PCT/US2022/052690)  
[87] (WO2023/114198)  
[30] US (63/289,736) 2021-12-15

[21] **3,239,232**  
[13] A1

[51] **Int.Cl. F16J 15/34 (2006.01) F16J 15/36 (2006.01) F16J 15/38 (2006.01)**  
[25] EN  
[54] **ELASTOMER SPRING TYPE MECHANICAL SEAL**  
[54] **JOINT MECANIQUE DE TYPE A RESSORT ELASTOMERE**  
[72] AZIBERT, HENRI VINCENT, US  
[72] KALESHIAN, JOSEPH K., US  
[71] A.W. CHESTERTON COMPANY, US  
[85] 2024-05-27  
[86] 2023-02-17 (PCT/US2023/062839)  
[87] (WO2023/159193)  
[30] US (63/311,305) 2022-02-17

[21] **3,239,233**  
[13] A1

[51] **Int.Cl. C09K 8/502 (2006.01) C09K 8/26 (2006.01)**  
[25] EN  
[54] **COMPOSITION AND METHOD FOR CONTROLLING LOST CIRCULATION**  
[54] **COMPOSITION ET PROCEDE DE REGULATION DE LA PERTE DE CIRCULATION**  
[72] SANGARU, SHIV SHANKAR, US  
[72] SARMAH, PRANJAL, US  
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US  
[85] 2024-05-27  
[86] 2022-11-01 (PCT/US2022/048535)  
[87] (WO2023/096727)  
[30] US (17/536,554) 2021-11-29

[21] **3,239,234**  
[13] A1

[51] **Int.Cl. A01N 57/20 (2006.01) A01N 43/80 (2006.01)**  
[25] EN  
[54] **DISPERSIBLE OIL-BASED SUSPENSION CONCENTRATE CONTAINING 3-(2-CHLORO-4-FLUORO-5-(3-METHYL-2,6-DIOXO-4-TRIFLUOROMETHYL-3,6-DIHYDROPYRIMIDINE-1(2H)-YL)PHENYL)-5-METHYL-4,5-DIHYDROISOXAZOLE-5-CARBOXYLIC ACID ETHYL ESTER AND PREPARATION METHOD THEREFOR**  
[54] **SUSPENSION CONCENTREE DISPERSIBLE A BASE D'HUILE CONTENANT DE L'ESTER ETHYLIQUE D'ACIDE 3-(2-CHLORO-4-FLUORO-5-(3-METHYL-2,6-DIOXO-4-TRIFLUOROMETHYL-3,6-DIHYDROPYRIMIDIN-1(2H)-YL)PHENYL)-5-METHYL-4,5-DIHYDROISOXAZOLE-5-CARBOXYLIQUE ET PROCEDE DE PREPARATION ASSOCIE**  
[72] WANG, LI, CN  
[72] ZHU, YANMEI, CN  
[72] DONG, LEI, CN  
[72] ZHAO, YONG, CN  
[72] FAN, MEIYUN, CN  
[71] NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS CO., LTD., CN  
[85] 2024-05-27  
[86] 2023-04-24 (PCT/CN2023/090406)  
[87] (WO2023/207923)  
[30] CN (202210457620.2) 2022-04-27

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[21] **3,239,236**  
[13] A1

[51] **Int.Cl. H04L 27/26 (2006.01)**  
[25] EN  
[54] **WIRELESS COMMUNICATION AND SENSING METHOD AND DEVICE THEREOF**  
[54] **PROCEDE DE COMMUNICATION ET DE DETECTION SANS FIL ET DISPOSITIF ASSOCIE**  
[72] MA, YIHUA, CN  
[72] YUAN, ZHIFENG, CN  
[72] XIA, SHUQIANG, CN  
[72] YU, GUANGHUI, CN  
[72] HU, LIUJUN, CN  
[71] ZTE CORPORATION, CN  
[85] 2024-05-27  
[86] 2022-04-01 (PCT/CN2022/084817)  
[87] (WO2023/184484)

[21] **3,239,237**  
[13] A1

[51] **Int.Cl. C04B 41/64 (2006.01)**  
[25] EN  
[54] **SILYL FUNCTIONAL CELLULOSIC RHEOLOGY MODIFIERS FOR SILANES IN CONSTRUCTION APPLICATIONS**  
[54] **AGENTS CELLULOSIQUES A FONCTIONNALITE SILYLE MODIFIANT LA RHEOLOGIE POUR SILANES DANS LES APPLICATIONS EN CONSTRUCTION**  
[72] COURTEMANCHE, MARC-ANDRE, US  
[72] LECOMTE, JEAN-PAUL, BE  
[72] MCLAUGHLIN, MATTHEW, US  
[72] SALVATI, SABRINA, BE  
[72] KILOS, BEATA A., US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[71] DOW SILICONES CORPORATION, US  
[85] 2024-05-27  
[86] 2022-11-21 (PCT/US2022/050521)  
[87] (WO2023/096844)  
[30] US (63/283,694) 2021-11-29

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

[51] **Int.Cl. E21B 43/295 (2006.01) C01B 3/34 (2006.01)**  
[25] EN  
[54] **REACTOR, SYSTEM AND METHOD FOR PROVIDING A HYDROGEN (H2) COMPOSITION**  
[54] **REACTEUR, SYSTEME ET PROCEDE POUR FOURNIR UNE COMPOSITION D'HYDROGENE (H2)**  
[72] GILLICK, STUART ROBERT, DK  
[71] METHARC APS, DK  
[85] 2024-05-27  
[86] 2022-12-07 (PCT/EP2022/084756)  
[87] (WO2023/104869)  
[30] DK (PA202101178) 2021-12-09

[21] **3,239,241**  
[13] A1

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/01 (2006.01) E21B 23/06 (2006.01) E21B 34/10 (2006.01)**  
[25] EN  
[54] **INTERLOCK FOR A DOWNHOLE TOOL**  
[54] **VERROUILLAGE POUR OUTIL DE FOND**  
[72] HERN, GREGORY, US  
[72] HERN, CHRISTOPHER, US  
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US  
[85] 2024-05-27  
[86] 2022-11-08 (PCT/US2022/049254)  
[87] (WO2023/096737)  
[30] US (17/536,434) 2021-11-29

[21] **3,239,244**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/20 (2006.01) C07K 14/075 (2006.01)**  
[25] EN  
[54] **FOWL ADENOVIRUS SUBUNIT VACCINE AND PRODUCTION METHOD THEREOF**  
[54] **VACCIN SOUS-UNITAIRE CONTRE LES ADENOVIRUS DE VOLAILLE ET SON PROCEDE DE PRODUCTION**  
[72] HESS, MICHAEL, AT  
[72] SCHACHNER, ANNA, AT  
[71] VETERINARMEDIZINISCHE UNIVERSITAT WIEN, AT  
[85] 2024-05-27  
[86] 2023-01-04 (PCT/EP2023/050093)  
[87] (WO2023/131613)  
[30] EP (22150211.5) 2022-01-04

[21] **3,239,246**  
[13] A1

[51] **Int.Cl. C01B 3/38 (2006.01) C01B 3/22 (2006.01)**  
[25] EN  
[54] **A METHOD FOR PRODUCING HYDROGEN CONTAINING GAS**  
[54] **PROCEDE DE PRODUCTION DE GAZ CONTENANT DE L'HYDROGENE**  
[72] SWINKELS, MARTINUS  
ARNOLDUS PETRUS MARIA, NL  
[72] AERTS, MAX JOHANNES  
ROBERTUS, NL  
[72] DE LAAT, YOSHI JOHANNES  
HENRICUS JACOBUS, NL  
[71] DENS B.V., NL  
[85] 2024-05-27  
[86] 2022-12-06 (PCT/NL2022/050704)  
[87] (WO2023/106919)  
[30] NL (2030045) 2021-12-06

[21] **3,239,248**  
[13] A1

[51] **Int.Cl. C03C 11/00 (2006.01) F17C 3/06 (2006.01)**  
[25] EN  
[54] **COATED CELLULAR GLASS INSULATION SYSTEM**  
[54] **SYSTEME D'ISOLATION EN VERRE CELLULAIRE REVETU**  
[72] HUANG, HELEN, US  
[72] CLYNHENS, MARC, BE  
[72] BADGER, STEVEN, US  
[71] OWENS CORNING INTELLECTUAL CAPITAL, LLC, US  
[71] PITTSBURGH CORNING EUROPE NV, BE  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/US2022/051152)  
[87] (WO2023/097096)  
[30] US (63/283,620) 2021-11-29

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[21] **3,239,249**  
[13] A1

[51] **Int.Cl. D21F 11/00 (2006.01) D21H 17/28 (2006.01) D21H 21/20 (2006.01) D21H 21/56 (2006.01) D21H 27/30 (2006.01)**

[25] EN

[54] **FOAM-ASSISTED APPLICATION OF UNCOOKED STARCH AND DRY STRENGTH AGENTS TO PAPER PRODUCTS**

[54] **APPLICATION ASSISTEE PAR MOUSSE D'AMIDON NON CUIT ET D'AGENTS DE RESISTANCE A SEC SUR DES PRODUITS EN PAPIER**

[72] BLISS, TERRY LYNN, US  
[72] NICHOLAS, MATTHEW, US  
[72] VINCIGUERRA, STEPHEN, US  
[72] HAWKINS LEWIS, ASHLEY, US  
[71] SOLENIS TECHNOLOGIES CAYMAN, L.P., CH

[85] 2024-05-27  
[86] 2022-11-24 (PCT/US2022/080464)  
[87] (WO2023/097306)  
[30] US (63/264,581) 2021-11-25  
[30] US (18/057,837) 2022-11-22

[21] **3,239,250**  
[13] A1

[51] **Int.Cl. H01M 4/02 (2006.01) H01M 50/121 (2021.01) H01M 50/131 (2021.01) H01M 50/171 (2021.01) H01M 50/19 (2021.01) H01M 10/04 (2006.01) H01M 10/36 (2010.01)**

[25] EN

[54] **SEALED STATIC BIPOLAR BATTERY AND METHOD OF MAKING AND ASSEMBLING SAME**

[54] **BATTERIE BIPOLAIRE STATIQUE SCELLEE ET SON PROCEDE DE FABRICATION ET D'ASSEMBLAGE**

[72] RICHEY, FRANCIS W., US  
[72] SZAMRETA, NICHOLAS, US  
[72] PLICHTA, GREGORY, US  
[72] JOSEPH, CYRIL FERNANDEZ LOURDNATHAN, US  
[72] MANI, VASANTHAN, US  
[71] EOS ENERGY TECHNOLOGY HOLDINGS, LLC, US

[85] 2024-05-27  
[86] 2022-12-05 (PCT/US2022/051794)  
[87] (WO2023/107365)  
[30] US (63/286,379) 2021-12-06

[21] **3,239,251**  
[13] A1

[51] **Int.Cl. C07K 14/325 (2006.01) C12N 15/82 (2006.01)**

[25] EN

[54] **PESTICIDAL GENES AND METHODS OF USE**

[54] **GENES PESTICIDES ET PROCEDES D'UTILISATION**

[72] KELLY, REBEKAH DETER, US  
[72] PARKS, JESSICA, US  
[72] TORNEY, FRANCOIS, FR  
[72] GRAY, MELISSA WILLIAMS, US  
[71] AGBIOME, INC., US

[85] 2024-05-27  
[86] 2022-12-06 (PCT/US2022/081014)  
[87] (WO2023/107943)  
[30] US (63/286,810) 2021-12-07  
[30] US (63/286,813) 2021-12-07

[21] **3,239,252**  
[13] A1

[51] **Int.Cl. A01G 9/18 (2006.01) B01D 53/62 (2006.01)**

[25] EN

[54] **SYSTEM FOR CAPTURING AND REDIRECTING CARBON EMISSIONS TO A GREENHOUSE**

[54] **SYSTEME DE CAPTURE ET DE REDIRECTION D'EMISSIONS DE CARBONE VERS UNE SERRE**

[72] SEAY, JULIA NAOMI, US  
[71] SEAY, JULIA NAOMI, US

[85] 2024-05-27  
[86] 2022-12-02 (PCT/US2022/051721)  
[87] (WO2023/102230)  
[30] US (63/264,806) 2021-12-02

[21] **3,239,254**  
[13] A1

[51] **Int.Cl. B60L 58/12 (2019.01)**

[25] EN

[54] **BATTERY MANAGEMENT FOR MACHINE SERVICE OPERATIONS**

[54] **GESTION DE BATTERIE POUR OPERATIONS DE SERVICE DE MACHINE**

[72] LANE, CAMERON T., US  
[71] CATERPILLAR GLOBAL MINING EQUIPMENT LLC, US

[85] 2024-05-27  
[86] 2022-11-22 (PCT/US2022/080296)  
[87] (WO2023/097208)  
[30] US (17/537,365) 2021-11-29

[21] **3,239,256**  
[13] A1

[51] **Int.Cl. F15B 21/044 (2019.01) F15B 21/08 (2006.01)**

[25] EN

[54] **ELIMINATING BLEED ON FLOW CONTROLS**

[54] **ELIMINATION DE LA PERTE DE FLUIDE SUR DES SYSTEMES DE REGULATION DE DEBIT**

[72] SMART, HAROLD RANDALL, US  
[71] DRESSER, LLC, US

[85] 2024-05-27  
[86] 2022-11-30 (PCT/US2022/080646)  
[87] (WO2023/102416)  
[30] US (17/538,667) 2021-11-30

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[21] <b>3,239,257</b> [13] A1	[21] <b>3,239,258</b> [13] A1	[21] <b>3,239,261</b> [13] A1
[51] <b>Int.Cl. C07D 491/147 (2006.01) A61K 31/5383 (2006.01) A61P 3/10 (2006.01) A61P 7/02 (2006.01) A61P 17/06 (2006.01) A61P 19/08 (2006.01) A61P 25/28 (2006.01) A61P 31/12 (2006.01) A61P 31/18 (2006.01) A61P 35/02 (2006.01) C07D 498/14 (2006.01)</b>	[51] <b>Int.Cl. A61K 39/00 (2006.01) C07K 16/28 (2006.01)</b>	[51] <b>Int.Cl. C05C 5/04 (2006.01) C05F 17/10 (2020.01)</b>
[25] EN	[25] EN	[25] EN
[54] <b>COMPOUNDS</b>	[54] <b>ANTI-SIGLEC-15 ANTIBODY AND USE THEREOF</b>	[54] <b>METHOD FOR PREPARING A FERTILISER COMPOSITION</b>
[54] <b>COMPOSES</b>	[54] <b>ANTICORPS ANTI-SIGLEC-15 ET SON UTILISATION</b>	[54] <b>PROCEDE DE PREPARATION D'UNE COMPOSITION D'ENGRAIS</b>
[72] FERNANDEZ, JOAQUIN PASTOR, ES	[72] LV, QIANG, CN	[72] HAMMOND, PETER, GB
[72] BLANCO APARICIO, CARMEN, ES	[72] JIANG, XUEFENG, CN	[71] CCM TECHNOLOGIES LIMITED, GB
[72] MARTINEZ GONZALEZ, SONIA, ES	[72] SHAO, NA, CN	[85] 2024-05-27
[72] ALBARRAN SANTINO, MARIA ISABEL, ES	[72] XU, HUI, CN	[86] 2022-11-29 (PCT/GB2022/053014)
[72] ALVAREZ ESCOBAR, ROSA MARIA, ES	[72] DENG, CHANGJING, CN	[87] (WO2023/094841)
[72] CEBRIA GOMEZ, ANTONIO, ES	[72] GUAN, GUANGKUO, CN	[30] GB (2117190.5) 2021-11-29
[72] CEBRIAN MUNOZ, DAVID ALVARO, ES	[72] ZHOU, LIANG, CN	
[72] GARCIA GARCIA, ANA BELEN, ES	[72] ZHANG, ZHENGPING, CN	[21] <b>3,239,262</b> [13] A1
[72] GOMEZ DE LA OLIVA, CRISTINA ANA, ES	[72] LI, TIANIAN, CN	[51] <b>Int.Cl. C07D 301/32 (2006.01)</b>
[72] GONZALEZ CANTALAPIEDRA, ESTHER, ES	[72] ZHOU, YUNYAN, CN	[25] EN
[72] HERNANDEZ ENCINAS, ELENA, ES	[71] NONA BIOSCIENCES (SUZHOU) CO., LTD., CN	[54] <b>SIMPLIFIED ETHYLENE OXIDE PURIFICATION METHODS</b>
[72] MARTIN HERNANDO, JOSE IGNACIO, ES	[85] 2024-05-27	[54] <b>PROCEDES SIMPLIFIES DE PURIFICATION D'OXYDE D'ETHYLENE</b>
[72] RAMOS LIMA, FRANCISCO JAVIER, ES	[86] 2022-11-24 (PCT/CN2022/134161)	[72] HINDY, ELIAS M., US
[72] RIESCO FAGUNDO, ROSARIO CONCEPCION, ES	[87] (WO2023/093816)	[71] DOW GLOBAL TECHNOLOGIES LLC, US
[71] FUNDACION DEL SECTOR PUBLICO ESTATAL CENTRO NACIONAL DE INVESTIGACIONES ONCOLOGICAS CARLOS III (F.S.P. CNIO), ES	[30] CN (202111411306.2) 2021-11-25	[85] 2024-05-27
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[87] (WO2023/099072)	[51] <b>Int.Cl. C23C 18/34 (2006.01) C23C 18/36 (2006.01) C23C 18/40 (2006.01)</b>	[30] US (17/538,433) 2021-11-30
[30] EP (21211778.2) 2021-12-01	[25] EN	
	[54] <b>ELECTROLESS ANTIPATHOGENIC COATING</b>	[21] <b>3,239,264</b> [13] A1
	[54] <b>REVETEMENT ANTI-PATHOGENE AUTOCATALYTIQUE</b>	[51] <b>Int.Cl. A61K 31/19 (2006.01) A61K 31/198 (2006.01) A61K 31/77 (2006.01)</b>
	[72] SCHAFFER, AMBROSE, US	[25] EN
	[72] LAPLANTE, JEAN, US	[54] <b>NEW DIALYSIS FLUID</b>
	[72] WOJCIK, MATTHEW, US	[54] <b>NOUVEAU FLUIDE DE DIALYSE</b>
	[71] COVENTYA, INC., US	[72] HOBRO, STURE, SE
	[85] 2024-05-27	[72] NILSSON, ANDERS, SE
	[86] 2022-10-25 (PCT/US2022/047706)	[71] GAMBRO LUNDIA AB, SE
	[87] (WO2023/101770)	[85] 2024-05-27
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		[30] SE (2151465-8) 2021-12-01

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[51] **Int.Cl. C07F 15/00 (2006.01)**  
[25] EN  
[54] **DEPOSITION OF NOBLE METAL ISLETS OR THIN FILMS FOR ITS USE FOR ELECTROCHEMICAL CATALYSTS WITH IMPROVED CATALYTIC ACTIVITY**  
[54] **DEPOT D'ÎLOTS DE METAUX NOBLES OU DE FILMS MINCES POUR LEUR UTILISATION EN TANT QUE CATALYSEURS ELECTROCHIMIQUES A ACTIVITE CATALYTIQUE AMELIOREE**  
[72] ONO, TAKASHI, JP  
[72] TERAMOTO, TAKASHI, JP  
[72] DUSSARRAT, CHRISTIAN, JP  
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PRO..., FR  
[85] 2024-05-27  
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[87] (WO2023/102063)  
[30] US (63/284,170) 2021-11-30

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[13] A1

[51] **Int.Cl. C07K 14/145 (2006.01) A61K 47/68 (2017.01)**  
[25] EN  
[54] **PSEUDOTYPED VIRAL PARTICLES, COMPOSITIONS COMPRISING THE SAME, AND USES THEREOF**  
[54] **PARTICULES VIRALES PSEUDOTYPEES, COMPOSITIONS LES COMPRENANT ET LEURS UTILISATIONS**  
[72] RUSSELL, RONNIE M., US  
[72] JOHNSON, PHILIP R., US  
[72] ANDORKO, JAMES I., US  
[72] SACHDEVA, MOHIT, US  
[72] SCHNEPP, BRUCE, US  
[72] MARINELLI, MICHAEL, US  
[72] FOSS, JEFFERY, US  
[72] BORAL, DEBASISH, US  
[71] INTERIUS BIOTHERAPEUTICS, INC., US  
[85] 2024-05-27  
[86] 2022-12-15 (PCT/US2022/081616)  
[87] (WO2023/114884)  
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[30] US (63/289,977) 2021-12-15  
[30] US (63/266,044) 2021-12-27  
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[13] A1

[51] **Int.Cl. E02F 9/26 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR IDENTIFYING MACHINE ANOMALY ROOT CAUSE**  
[54] **SYSTEMES ET PROCEDES POUR IDENTIFICATION DE CAUSE RACINE D'ANOMALIE DE MACHINE**  
[72] LIN, DAVID J., US  
[72] JEWELL, TYLER P., US  
[72] ORGAN, DANIEL J., US  
[72] SUNDARARAJ, VIVEK, US  
[72] YALAMANCHILI, VIJAY K., US  
[72] PARK, CHANYOUNG, US  
[72] RUTAN, WILLIAM KENT, US  
[72] SUN, KAIMEI, US  
[71] CATERPILLAR INC., US  
[85] 2024-05-27  
[86] 2022-11-16 (PCT/US2022/050022)  
[87] (WO2023/101812)  
[30] US (17/539,011) 2021-11-30

[21] **3,239,269**  
[13] A1

[51] **Int.Cl. A61K 8/73 (2006.01)**  
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[54] **ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME**  
[54] **COMPOSITIONS DE SOINS BUCCO-DENTAIRES ET METHODES ASSOCIEES**  
[72] DENG, YUZHI, CN  
[72] CHEN, DANDAN, US  
[72] HENAO ADLEVANKIN, DIANA LICETH, US  
[72] STEELE, JOSEPH ALLAN MCKINNON, US  
[72] DUGDALE, JULIA MAIGHDLIN, US  
[72] THOMSON, PAUL, US  
[72] ARORA, PAYAL, US  
[72] JHA, MANISHA, IN  
[72] MANUS, LISA MARIE, US  
[72] YANG, YING, US  
[71] COLGATE-PALMOLIVE COMPANY, US  
[85] 2024-05-27  
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[30] CN (202111491775.X) 2021-12-08

[21] **3,239,270**  
[13] A1

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/04 (2006.01) E21B 34/10 (2006.01)**  
[25] EN  
[54] **EXTRUSION BALL ACTUATED TELESCOPING LOCK MECHANISM**  
[54] **MECANISME DE VERROUILLAGE TELESCOPIQUE ACTIONNE PAR UNE BILLE D'EXTRUSION**  
[72] CULLUM, JASON, US  
[72] SOSA, ANDRES, US  
[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US  
[85] 2024-05-27  
[86] 2022-11-17 (PCT/US2022/050268)  
[87] (WO2023/101829)  
[30] US (17/538,898) 2021-11-30

[21] **3,239,271**  
[13] A1

[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61P 3/00 (2006.01) A61P 19/08 (2006.01) C12N 15/11 (2006.01)**  
[25] EN  
[54] **ACVR1R206H ALLELE-SPECIFIC THERAPY AND USES THEREOF FOR TREATMENT OF FIBRODYSPLASIA OSSIFICANS PROGRESSIVA**  
[54] **THERAPIE SPECIFIQUE DE L'ALLELE ACVR1R206H ET SON UTILISATION POUR LE TRAITEMENT DE LA FIBRODYSPLASIE OSSIFIANTE PROGRESSIVE**  
[72] YOKOTA, TOSHIFUMI, CA  
[72] YOKOTA-MARUYAMA, RIKA, CA  
[71] OLIGOMICSTX INC., CA  
[85] 2024-05-27  
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[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/04 (2006.01) E21B 34/10 (2006.01)**

[25] EN

[54] **SHIFTING SLEEVE WITH EXTRUDABLE BALL AND DOG**

[54] **MANCHON OBTURATEUR AVEC BILLE ET BUTEE POUVANT ETRE EXTRUDEES**

[72] CULLUM, JASON, US

[72] OBERG, LEVI, US

[72] SOSA, ANDRES, US

[72] RABALAIS, DAVID, US

[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US

[85] 2024-05-27

[86] 2022-11-17 (PCT/US2022/050272)

[87] (WO2023/101831)

[30] US (17/538,915) 2021-11-30

[21] **3,239,278**  
[13] A1

[51] **Int.Cl. E21B 34/14 (2006.01) E21B 23/04 (2006.01) E21B 34/10 (2006.01)**

[25] EN

[54] **MULTI PLUG SYSTEM**

[54] **SYSTEME A BOUCHONS MULTIPLES**

[72] SOSA, ANDRES, US

[71] BAKER HUGHES OILFIELD OPERATIONS LLC, US

[85] 2024-05-27

[86] 2022-11-17 (PCT/US2022/050263)

[87] (WO2023/101827)

[30] US (17/538,894) 2021-11-30

[21] **3,239,281**  
[13] A1

[51] **Int.Cl. H01M 4/13 (2010.01) H01M 4/505 (2010.01)**

[25] EN

[54] **PROCESSES FOR FORMING METAL OXIDE THIN FILMS ON ELECTRODE INTERPHASE CONTROL**

[54] **PROCEDES DE FORMATION DE FILMS MINCES D'OXYDE METALLIQUE SUR REGULATION D'INTERPHASE D'ELECTRODE**

[72] DUSSARRAT, CHRISTIAN, JP

[72] KIM, SANGHOON, JP

[72] KAMIMURA, SUNAO, JP

[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PRO..., FR

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[87] (WO2023/102107)

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[13] A1

[51] **Int.Cl. G06Q 10/20 (2023.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR PREDICTING A TARGET EVENT ASSOCIATED WITH A MACHINE**

[54] **SYSTEMES ET PROCEDES DE PREDICTION D'UN EVENEMENT CIBLE ASSOCIE A UNE MACHINE**

[72] SRIVASTAVA, ANSHU, US

[71] CATERPILLAR INC., US

[85] 2024-05-27

[86] 2022-11-23 (PCT/US2022/050824)

[87] (WO2023/101872)

[30] US (17/539,542) 2021-12-01

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[13] A1

[51] **Int.Cl. A61K 38/16 (2006.01) A61P 39/02 (2006.01) C12Q 1/44 (2006.01)**

[25] EN

[54] **MATERIALS AND METHODS FOR PREVENTING OR REDUCING TOXICITY TO ORGANOPHOSPHATES AND OTHER TOXIC MATERIALS**

[54] **MATERIAUX ET PROCEDES POUR PREVENIR OU REDUIRE LA TOXICITE D'ORGANOPHOSPHATES ET D'AUTRES MATERIAUX TOXIQUES**

[72] MONSUL, NICHOLAS T., US

[72] BERKES, EVA A., US

[72] GLINIEWICZ, KAROL, US

[72] LIAO, YU-HSIEN, US

[72] HSIN, I-FANG, US

[71] QUORUM INNOVATIONS, LLC, US

[85] 2024-05-27

[86] 2022-11-07 (PCT/US2022/079375)

[87] (WO2023/081873)

[30] US (63/276,091) 2021-11-05

[30] US (63/335,336) 2022-04-27

[21] **3,239,289**  
[13] A1

[51] **Int.Cl. A61K 48/00 (2006.01) C07K 14/015 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **FUNCTIONAL AAV CAPSIDS FOR INTRAVITREAL ADMINISTRATION**

[54] **CAPSIDES AAV FONCTIONNELLES POUR ADMINISTRATION INTRAVITREENNE**

[72] PACKARD, THOMAS, US

[72] BRIGGS, ADRIAN WRANGHAM, US

[72] HUSS, DAVID JEFFREY, US

[72] VIGNEAULT, FRANCOIS, US

[72] HAUSE, RONALD JAMES, JR., US

[72] JIANG, YUE, US

[72] STEIN, KEVIN CHRISTOPHER, US

[72] BANJANIN, BORA, US

[71] SHAPE THERAPEUTICS INC., US

[85] 2024-05-27

[86] 2022-11-30 (PCT/US2022/051451)

[87] (WO2023/102078)

[30] US (63/284,962) 2021-12-01

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[25] EN

[54] **PHARMACEUTICAL FORMULATIONS COMPRISING A CYCLODEXTRIN FORMULATIONS PHARMACEUTIQUES COMPRENANT UNE CYCLODEXTRINE**

[54] **FORMULATIONS PHARMACEUTIQUES COMPRENANT UNE CYCLODEXTRINE**

[72] KJELDSSEN, BENJAMIN TROEST, DK

[72] CHRISTOFFERSEN, STIG, DK

[72] HANSEN, ROSA REBECCA ERRITZOE, DK

[71] NOVO NORDISK A/S, DK

[85] 2024-05-27

[86] 2022-12-13 (PCT/EP2022/085558)

[87] (WO2023/110833)

[30] EP (21214004.0) 2021-12-13

[30] EP (22191564.8) 2022-08-22

[21] **3,239,292**  
[13] A1

[51] **Int.Cl. G02F 1/361 (2006.01)**

[25] EN

[54] **NONLINEAR OPTICAL CHROMOPHORES HAVING TETRAHYDROCARBAZOLE DONOR GROUPS, LYOTROPIC COMPOSITIONS CONTAINING THE SAME, AND METHODS OF POLING SUCH COMPOSITIONS**

[54] **CHROMOPHORES OPTIQUES NON LINEAIRES AYANT DES GROUPES DONNEURS DE TETRAHYDROCARBAZOLE, COMPOSITIONS LYOTROPIQUES LES CONTENANT, ET PROCEDES DE POLARISATION DE TELLES COMPOSITIONS**

[72] PECINOVSKY, CORY, US

[72] JOHNSON, BARRY, US

[72] RAMANN, GINELLE A., US

[71] LIGHTWAVE LOGIC, INC., US

[85] 2024-05-27

[86] 2022-12-09 (PCT/US2022/052367)

[87] (WO2023/107680)

[30] US (63/288,089) 2021-12-10

[21] **3,239,294**  
[13] A1

[51] **Int.Cl. A01N 25/04 (2006.01) A01N 25/12 (2006.01) A01N 25/26 (2006.01) A01N 43/54 (2006.01) A01N 43/80 (2006.01)**

[25] EN

[54] **HIGH LOAD SUSPENSION CONCENTRATE COMPOSITIONS COMPOSITIONS DE CONCENTRE EN SUSPENSION A FORTE CHARGE**

[72] HEVRONI, LIRON, IL

[72] SILBERT, GILAD, IL

[71] ADAMA AGAN LTD., IL

[85] 2024-05-27

[86] 2022-11-27 (PCT/IL2022/051259)

[87] (WO2023/095142)

[30] US (63/283,471) 2021-11-28

[21] **3,239,297**  
[13] A1

[51] **Int.Cl. C01B 3/34 (2006.01)**

[25] EN

[54] **SYSTEMS AND METHODS FOR CARBON DIOXIDE CONVERSION SYSTEMES ET PROCEDES DE CONVERSION DE DIOXYDE DE CARBONE**

[72] SOANE, DAVID S., US

[71] CARBOGENESIS LLC, US

[85] 2024-05-27

[86] 2022-12-13 (PCT/US2022/052673)

[87] (WO2023/114192)

[30] US (63/288,891) 2021-12-13

[21] **3,239,298**  
[13] A1

[51] **Int.Cl. B60T 17/08 (2006.01) B60T 17/16 (2006.01) B61H 13/02 (2006.01)**

[25] EN

[54] **CONTROL MECHANISM FOR A RAIL SYSTEM, RAIL SYSTEM PROVIDED WITH SUCH A MECHANISM AND RAIL VEHICLE PROVIDED WITH SUCH A SYSTEM**

[54] **MECANISME DE COMMANDE POUR UN SYSTEME FERROVIAIRE, SYTEME DE FERROVIAIRE POURVU D'UN TEL MECANISME ET VEHICULE FERROVIAIRE POURVU D'UN TEL SYSTEME**

[72] GONCALVES, CLAUDINO, FR

[72] GERBER-PAPIN, DENIS, FR

[72] ORLANDO, EMMANUEL, FR

[71] WABTEC HAUTS-DE-FRANCE, FR

[85] 2024-05-27

[86] 2022-11-29 (PCT/FR2022/052194)

[87] (WO2023/099839)

[30] FR (FR2112850) 2021-12-02

[21] **3,239,299**  
[13] A1

[51] **Int.Cl. G06F 21/62 (2013.01) G06F 21/64 (2013.01) G06F 16/27 (2019.01)**

[25] EN

[54] **DATA VALIDATION TECHNIQUES FOR SENSITIVE DATA MIGRATION ACROSS MULTIPLE PLATFORMS**

[54] **TECHNIQUES DE VALIDATION DE DONNEES POUR MIGRATION DE DONNEES SENSIBLES A TRAVERS DES PLATES-FORMES MULTIPLES**

[72] SINGH, ROHIT, US

[72] GHOSH, PINAKI, US

[72] VARUGHESE, JOJI, US

[71] EQUIFAX INC., US

[85] 2024-05-27

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[51] **Int.Cl. A61K 31/4412 (2006.01) A61K 31/4418 (2006.01) A61P 29/00 (2006.01)**

[25] EN

[54] **METHODS OF TREATING IDIOPATHIC PULMONARY FIBROSIS WITH DEUPIRFENIDONE**

[54] **METHODS DE TRAITEMENT DE LA FIBROSE PULMONAIRE IDIOPATHIQUE AVEC DE LA DEUPIRFENIDONE**

[72] CHEN, MICHAEL C., US

[72] ELENKO, ERIC, US

[72] PADEN, HEATHER A., US

[72] KORTH, CHRISTOPHER C., US

[72] FORD, PAUL ANDREW, GB

[72] KROP, JULIE S., US

[72] GRAHAM, CAMILLA S., US

[72] MICIONI, LIZA C., US

[72] HATCH, SIMON JOHN, US

[72] GARG, VARUN, US

[71] PURETECH LYT 100, INC., US

[85] 2024-05-27

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[87] (WO2023/133476)

[30] US (63/296,818) 2022-01-05

[30] US (63/296,826) 2022-01-05

[30] US (63/296,843) 2022-01-05

[30] US (63/326,129) 2022-03-31

[30] US (63/326,132) 2022-03-31

[30] US (63/341,269) 2022-05-12

[30] US (63/341,279) 2022-05-12

[30] US (63/341,281) 2022-05-12

[30] US (63/341,828) 2022-05-13

[30] US (63/352,107) 2022-06-14

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[30] US (63/374,362) 2022-09-01

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[30] US (63/432,208) 2022-12-13

[21] **3,239,305**  
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01) A47J 31/52 (2006.01)**

[25] EN

[54] **BEVERAGE OR FOODSTUFF PREPARATION SYSTEM**

[54] **SYSTEME DE PREPARATION DE BOISSON OU DE PRODUIT ALIMENTAIRE**

[72] TEKLITS, ALAIN, CH

[72] LEFEBVRE-PAUTIGNY, FLORENT, FR

[72] JOLY, ANTOINE, FR

[72] PIVRNEC, MICHAL, CH

[71] SOCIETE DES PRODUITS NESTLE, S.A., CH

[85] 2024-05-27

[86] 2022-12-20 (PCT/EP2022/086924)

[87] (WO2023/118094)

[30] EP (21216914.8) 2021-12-22

[30] EP (21216916.3) 2021-12-22

[21] **3,239,306**  
[13] A1

[51] **Int.Cl. C12N 15/115 (2010.01) C12N 15/63 (2006.01)**

[25] EN

[54] **APTAMERS AND SMALL MOLECULE LIGANDS**

[54] **APTAMERES ET LIGANDS A PETITES MOLECULES**

[72] GUO, XUECUI, US

[72] FORBES, ALEXANDRIA, US

[72] LIU, KEVIN G., US

[72] KIM, JI-IN, US

[71] MEIRAGTX UK II LIMITED, GB

[85] 2024-05-27

[86] 2022-12-15 (PCT/IB2022/000762)

[87] (WO2023/111686)

[30] US (63/361,400) 2021-12-15

[21] **3,239,307**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01) A61P 17/04 (2006.01) C07K 14/715 (2006.01)**

[25] EN

[54] **CANINIZED ANTIBODIES TO CANINE INTERLEUKIN-31 RECEPTOR ALPHA 1**

[54] **ANTICORPS CANINISES CONTRE RECEPTEUR ALPHA 1 DE L'INTERLEUKINE-31 CANINE**

[72] MORSEY, MOHAMAD, US

[72] ZHANG, YUANZHENG, US

[71] INTERVET INTERNATIONAL B.V., NL

[85] 2024-05-27

[86] 2022-12-15 (PCT/EP2022/086084)

[87] (WO2023/111148)

[30] US (63/290,256) 2021-12-16

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[30] US (63/341,443) 2022-05-13

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<p style="text-align: center;">[21] <b>3,239,308</b> [13] A1</p> <p>[51] <b>Int.Cl. A61B 5/16 (2006.01) G06T 19/00 (2011.01) G16H 20/70 (2018.01) G16H 50/30 (2018.01) G16H 80/00 (2018.01) A61M 21/00 (2006.01) G02B 27/01 (2006.01) G06F 3/01 (2006.01) G16H 10/60 (2018.01) G16H 30/40 (2018.01) G16H 40/60 (2018.01)</b></p> <p>[25] EN</p> <p>[54] <b>MANAGEMENT OF PSYCHIATRIC OR MENTAL CONDITIONS USING DIGITAL OR AUGMENTED REALITY WITH PERSONALIZED EXPOSURE PROGRESSION</b></p> <p>[54] <b>GESTION DE TROUBLES PSYCHIATRIQUES OU MENTAUX A L'AIDE D'UNE REALITE NUMERIQUE OU AUGMENTEE AVEC PROGRESSION D'EXPOSITION PERSONNALISEE</b></p> <p>[72] ALAM, APRILIA, US</p> <p>[72] HEDGES, BRANDON, US</p> <p>[72] ZALUSKI, CHRISTINA, US</p> <p>[72] ANDERSON, ELEANOR, US</p> <p>[72] MITSU, GEORGIA, US</p> <p>[72] TSAI, JOYCE, US</p> <p>[72] TAYLOR, MORGAN, US</p> <p>[72] WEISBERG, RISA, US</p> <p>[72] ZADD, SARAH, US</p> <p>[72] GRINNELL, TODD, US</p> <p>[71] BEHAVR, LLC, US</p> <p>[71] SUMITOMO PHARMA CO.,LTD, JP</p> <p>[85] 2024-05-27</p> <p>[86] 2022-12-01 (PCT/US2022/051549)</p> <p>[87] (WO2023/102125)</p> <p>[30] US (63/284,862) 2021-12-01</p> <p>[30] US (63/415,876) 2022-10-13</p>	<p style="text-align: center;">[21] <b>3,239,310</b> [13] A1</p> <p>[51] <b>Int.Cl. G01N 33/68 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>BIOMARKERS FOR PROGNOSIS OF EARLY ONSET PREECLAMPSIA</b></p> <p>[54] <b>BIOMARQUEURS POUR LE PRONOSTIC DE LA PREECLAMPSIE PRECOCE</b></p> <p>[72] BUJOLD, EMMANUEL, CA</p> <p>[71] B.R.A.H.M.S GMBH, DE</p> <p>[71] UNIVERSITE LAVAL, CA</p> <p>[85] 2024-05-27</p> <p>[86] 2022-12-08 (PCT/EP2022/085007)</p> <p>[87] (WO2023/104975)</p> <p>[30] EP (21213234.4) 2021-12-08</p> <hr/> <p style="text-align: center;">[21] <b>3,239,312</b> [13] A1</p> <p>[51] <b>Int.Cl. A47J 31/44 (2006.01) A47J 31/52 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>BEVERAGE OR FOODSTUFF PREPARATION SYSTEM</b></p> <p>[54] <b>SYSTEME DE PREPARATION DE BOISSONS OU DE PRODUITS ALIMENTAIRES</b></p> <p>[72] TEKLITS, ALAIN, CH</p> <p>[72] LEFEBVRE-PAUTIGNY, FLORENT, FR</p> <p>[72] JOLY, ANTOINE, FR</p> <p>[72] PIVRNEC, MICHAL, CH</p> <p>[71] SOCIETE DES PRODUITS NESTLE S.A., CH</p> <p>[85] 2024-05-27</p> <p>[86] 2022-12-20 (PCT/EP2022/086931)</p> <p>[87] (WO2023/118100)</p> <p>[30] EP (21216914.8) 2021-12-22</p> <p>[30] EP (21216916.3) 2021-12-22</p>	<p style="text-align: center;">[21] <b>3,239,314</b> [13] A1</p> <p>[51] <b>Int.Cl. A63F 1/06 (2006.01) A63F 1/12 (2006.01) A63F 1/14 (2006.01) B65H 29/32 (2006.01) B65H 31/38 (2006.01) B65H 39/043 (2006.01) B65H 39/055 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>A SYSTEM FOR CREATING SETS OF CARDS</b></p> <p>[54] <b>SYSTEME DE CREATION DE JEUX DE CARTES</b></p> <p>[72] DEHOUWER, MARCO, BE</p> <p>[72] VAN DEUN, JASPER, BE</p> <p>[71] CARTAMUNDI SERVICES NV, BE</p> <p>[85] 2024-05-27</p> <p>[86] 2022-12-05 (PCT/EP2022/084418)</p> <p>[87] (WO2023/126130)</p> <p>[30] EP (21217836.2) 2021-12-27</p> <hr/> <p style="text-align: center;">[21] <b>3,239,315</b> [13] A1</p> <p>[51] <b>Int.Cl. A61K 31/13 (2006.01) A61K 31/135 (2006.01) A61K 31/137 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>NOREPINEPHRINE LIQUID FORMULATIONS</b></p> <p>[54] <b>FORMULATIONS LIQUIDES DE NOREPINEPHRINE</b></p> <p>[72] USAYAPANT, ARUNYA, US</p> <p>[72] XIAO, CHAOJU, US</p> <p>[71] FRESENIUS KABI USA, LLC, US</p> <p>[85] 2024-05-27</p> <p>[86] 2022-11-28 (PCT/US2022/080492)</p> <p>[87] (WO2023/102347)</p> <p>[30] US (63/286,029) 2021-12-04</p>
<p style="text-align: center;">[21] <b>3,239,309</b> [13] A1</p> <p>[51] <b>Int.Cl. A63F 1/06 (2006.01) A63F 1/10 (2006.01) A63F 1/14 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>PLAYING CARDS STORING DEVICE</b></p> <p>[54] <b>DISPOSITIF DE STOCKAGE DE CARTES A JOUER</b></p> <p>[72] VAN GENECHTEN, ERIK, BE</p> <p>[71] CARTAMUNDI SERVICES NV, BE</p> <p>[85] 2024-05-27</p> <p>[86] 2022-12-05 (PCT/EP2022/084419)</p> <p>[87] (WO2023/126131)</p> <p>[30] EP (21217835.4) 2021-12-27</p>		

## Demandes PCT entrant en phase nationale

[21] **3,239,316**  
[13] A1

[51] **Int.Cl. G02F 1/361 (2006.01)**  
[25] EN  
[54] **NON-LINEAR OPTICAL MATERIALS CONTAINING HIGH BOILING POINT SOLVENTS, AND METHODS OF EFFICIENTLY POLING THE SAME**

[54] **MATERIAUX OPTIQUES NON LINEAIRES CONTENANT DES SOLVANTS A POINT D'EBULLITION ELEVE, ET PROCEDES DE POLARISATION EFFICACE DE CEUX-CI**

[72] PECINOVSKY, CORY, US  
[72] RAMANN, GINELLE A., US  
[72] CHEN, BAOQUAN, US  
[72] JOHNSON, BARRY, US  
[71] LIGHTWAVE LOGIC, INC., US  
[85] 2024-05-27  
[86] 2022-11-30 (PCT/US2022/051432)  
[87] (WO2023/102066)  
[30] US (63/264,880) 2021-12-03

[21] **3,239,318**  
[13] A1

[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/11 (2006.01) C12N 15/52 (2006.01) C12N 15/90 (2006.01) C12P 7/64 (2022.01)**

[25] EN  
[54] **A METHOD FOR GENETIC MODIFICATION FOR HIGH CG CONTENT MICROORGANISMS**

[54] **PROCEDE DE MODIFICATION GENETIQUE DE MICRO-ORGANISMES A TENEUR ELEVEE EN GC**

[72] SHAIGANI, PARIYA, DE  
[72] BRUCK, THOMAS, DE  
[72] MEHLMER, NORBERT, DE  
[71] TECHNISCHE UNIVERSITAT MUNCHEN, DE  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/EP2022/083668)  
[87] (WO2023/117332)  
[30] EP (21217144.1) 2021-12-22

[21] **3,239,320**  
[13] A1

[51] **Int.Cl. B01F 25/312 (2022.01) B01F 25/21 (2022.01)**

[25] EN  
[54] **EDUCTOR FOR AN AQUACULTURE POND FLUID INJECTION SYSTEM AND SYSTEM COMPRISING THE SAME**

[54] **EJECTEUR POUR UN SYSTEME D'INJECTION DE FLUIDE DANS DES BASSINS D'AQUACULTURE ET SYSTEME LE COMPRENANT**

[72] VENEGAS CABELLO, PABLO ARTURO, CL  
[72] LLANCALEO SANCHEZ, KATHERINE ALEJANDRA, CL  
[72] NARVAEZ DINAMARCA, ANA LORENA, CL  
[71] UNIVERSIDAD CATOLICA DE LA SANTISIMA CONCEPCION, CL  
[85] 2024-05-27  
[86] 2021-11-29 (PCT/IB2021/061090)  
[87] (WO2023/094868)

[21] **3,239,317**  
[13] A1

[51] **Int.Cl. A63F 1/12 (2006.01) A63F 1/14 (2006.01)**

[25] EN  
[54] **DEVICE FOR PROVIDING SETS OF CARDS**

[54] **DISPOSITIF PERMETTANT DE FOURNIR DES JEUX DE CARTES**

[72] VERHEYEN, TOM ASTRID LOUIS, BE  
[72] DEHOUWER, MARCO, BE  
[71] CARTAMUNDI SERVICES NV, BE  
[85] 2024-05-27  
[86] 2022-12-05 (PCT/EP2022/084417)  
[87] (WO2023/126129)  
[30] EP (21217837.0) 2021-12-27

[21] **3,239,319**  
[13] A1

[51] **Int.Cl. A61K 8/99 (2017.01)**

[25] EN  
[54] **LACTOBACILLI FOR SKIN AGING**

[54] **LACTOBACILLES POUR LE VIEILLISSEMENT DE LA PEAU**

[72] ANGENIUS, HELI, FI  
[72] HUUSKONEN, LAURA TIINA MARIA, FI  
[72] TIIHONEN, KIRSTI, FI  
[71] INTERNATIONAL N&H DENMARK APS, DK  
[85] 2024-05-27  
[86] 2022-11-25 (PCT/EP2022/083302)  
[87] (WO2023/099351)  
[30] EP (21211430.0) 2021-11-30

[21] **3,239,321**  
[13] A1

[51] **Int.Cl. A23J 3/14 (2006.01) A23L 33/185 (2016.01) A23P 30/20 (2016.01) A23J 3/22 (2006.01)**

[25] EN  
[54] **TEXTURED VEGETABLE PROTEIN**

[54] **PROTEINE VEGETALE TEXTUREE**

[72] FILIPPI, FRANCESCO, NL  
[72] FRANKE, GIJSBERT THEODORUS, NL  
[72] STOTER, STEVINA CORNELIA, NL  
[72] TER STEGE, ROELOF BERNARDUS, NL  
[72] VRIELING, ANNET, NL  
[72] HABEYCH NARVAEZ, DAVID IGNACIO, NL  
[72] DELNOYE, DIDIER ANDRE PIERRE, NL  
[71] COOPERATIE KONINKLIJKE AVEBE U.A., NL  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/NL2022/050688)  
[87] (WO2023/096495)  
[30] EP (21211144.7) 2021-11-29

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[21] **3,239,322**  
[13] A1

[51] **Int.Cl. A61K 51/04 (2006.01)**  
[25] EN  
[54] **RADIOPHARMACEUTICAL TREATMENT METHODS AND USE**  
[54] **METHODES DE TRAITEMENT RADIOPHARMACEUTIQUE ET UTILISATION**  
[72] FLESHNER, NEIL, US  
[72] JENSEN, JESSICA, US  
[72] MCCANN, JOE, CA  
[71] POINT BIOPHARMA, INC., US  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/US2022/080572)  
[87] (WO2023/097329)  
[30] US (63/283,999) 2021-11-29

[21] **3,239,323**  
[13] A1

[51] **Int.Cl. A63F 1/12 (2006.01)**  
[25] EN  
[54] **A DEVICE FOR PROVIDING SETS OF CARDS**  
[54] **DISPOSITIF POUR FOURNIR DES ENSEMBLES DE CARTES**  
[72] NIETVELT, STEVEN KAREL MARIA, BE  
[71] CARTAMUNDI SERVICES NV, BE  
[85] 2024-05-27  
[86] 2022-12-22 (PCT/EP2022/087402)  
[87] (WO2023/138872)  
[30] EP (22152602.3) 2022-01-21

[21] **3,239,325**  
[13] A1

[51] **Int.Cl. G03B 11/00 (2021.01) H04N 23/55 (2023.01) H04N 23/75 (2023.01) G03B 7/00 (2021.01)**  
[25] EN  
[54] **ACTIVE CAMERA LENS SYSTEM FILTER**  
[54] **FILTRE DE SYSTEME DE LENTILLE DE CAMERA ACTIF**  
[72] GALINDO, EDWIN IOVANNI, US  
[72] HAGMAIER, CHARLES P. JR., US  
[72] SASAKI, DANIEL KEITH, US  
[72] MCVICKER, GUY HAMILTON, US  
[71] PANAVISION INTERNATIONAL, L.P., US  
[85] 2024-05-27  
[86] 2022-11-28 (PCT/US2022/051102)  
[87] (WO2023/097088)  
[30] US (17/537,456) 2021-11-29

[21] **3,239,326**  
[13] A1

[51] **Int.Cl. A61K 31/121 (2006.01) A61K 31/19 (2006.01) A61K 33/00 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **DIALYSIS FLUID COMPRISING KETONE BODIES FOR THE TREATMENT OF CANCER**  
[54] **FLUIDE DE DIALYSE COMPRENANT DES CORPUS CETONIQUES POUR LE TRAITEMENT DU CANCER**  
[72] HOBRO, STURE, SE  
[72] NILSSON, ANDERS, SE  
[71] GAMBRO LUNDIA AB, SE  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/EP2022/083622)  
[87] (WO2023/099452)  
[30] SE (2151464-1) 2021-12-01

[21] **3,239,327**  
[13] A1

[51] **Int.Cl. A61M 60/13 (2021.01) A61M 60/216 (2021.01) A61M 60/861 (2021.01) A61M 60/865 (2021.01)**  
[25] EN  
[54] **EQUIPMENT FOR AND METHOD OF FIXING A MEDICAL DEVICE TO A PATIENT**  
[54] **EQUIPEMENT ET PROCEDE DE FIXATION D'UN DISPOSITIF MEDICAL A UN PATIENT**  
[72] NIX, CHRISTOPH, DE  
[72] RODRIGUES BRIMMERS, CRISTINE, DE  
[72] SCHIBILSKY, DAVID, DE  
[71] ABIOMED EUROPE GMBH, DE  
[85] 2024-05-27  
[86] 2022-12-08 (PCT/EP2022/085066)  
[87] (WO2023/105001)  
[30] EP (21213759.0) 2021-12-10

[21] **3,239,328**  
[13] A1

[51] **Int.Cl. H01M 10/04 (2006.01) H01M 10/0587 (2010.01) H01M 10/42 (2006.01)**  
[25] EN  
[54] **ELECTRODE ASSEMBLY AND CYLINDRICAL BATTERY CELL, AND BATTERY PACK AND VEHICLE COMPRISING THE SAME**  
[54] **ENSEMBLE ELECTRODE, ELEMENT DE BATTERIE CYLINDRIQUE, ET BLOC-BATTERIE ET VEHICULE LE COMPRENANT**  
[72] YUN, SU HYUN, KR  
[72] JUNG, BUM YOUNG, KR  
[72] LEE, KWAN HEE, KR  
[72] KIM, JONG GU, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2024-05-27  
[86] 2022-11-30 (PCT/KR2022/019153)  
[87] (WO2023/101384)  
[30] KR (10-2021-0168017) 2021-11-30  
[30] KR (10-2022-0051015) 2022-04-25

[21] **3,239,329**  
[13] A1

[51] **Int.Cl. G16C 20/20 (2019.01)**  
[25] EN  
[54] **BASIN-WISE CONCENTRATION PREDICTION**  
[54] **PREDICTION DE CONCENTRATION A L'ECHELLE D'UN BASSIN**  
[72] PORLAN, AXEL, FR  
[72] DESPINOIS, FRANK, FR  
[71] TOTALENERGIES ONE TECH, FR  
[85] 2024-05-27  
[86] 2021-12-07 (PCT/IB2021/000845)  
[87] (WO2023/105255)

[21] **3,239,330**  
[13] A1

[51] **Int.Cl. G02B 21/00 (2006.01) G02B 27/09 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR LIGHT MANIPULATION**  
[54] **SYSTEMES ET PROCEDES DE MANIPULATION DE LUMIERE**  
[72] SANCHEZ, GABRIEL, US  
[71] ENSPECTRA HEALTH, INC., US  
[85] 2024-05-27  
[86] 2022-12-01 (PCT/US2022/051585)  
[87] (WO2023/102146)  
[30] US (63/285,422) 2021-12-02

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[21] **3,239,331**  
[13] A1

[51] **Int.Cl. G06F 8/36 (2018.01) G06N 20/00 (2019.01) G06V 10/00 (2022.01)**  
[25] EN  
[54] **INTERFACE COMPONENT FOR DISTRIBUTED COMPONENTS OF A MACHINE LEARNING SYSTEM**  
[54] **COMPOSANT D'INTERFACE POUR COMPOSANTS REPARTIS D'UN SYSTEME D'APPRENTISSAGE AUTOMATIQUE**  
[72] MAIER, ANDREAS, DE  
[72] SCHIELEIN, RICHARD, DE  
[72] SYBEN-LEISNER, CHRISTOPHER, DE  
[72] PFEUFER, DANA, DE  
[71] FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V., DE  
[85] 2024-05-27  
[86] 2022-11-28 (PCT/EP2022/083555)  
[87] (WO2023/094681)  
[30] DE (10 2021 213 418.1) 2021-11-29

[21] **3,239,332**  
[13] A1

[51] **Int.Cl. B23K 9/18 (2006.01) B23K 11/00 (2006.01) C21D 8/02 (2006.01) C22C 38/38 (2006.01)**  
[25] EN  
[54] **AUSTENITIC STEEL HAVING EXCELLENT EXTREME LOW TEMPERATURE TOUGHNESS IN HEAT-AFFECTED ZONE AND METHOD FOR MANUFACTURING SAME**  
[54] **ACIER AUSTENITIQUE AYANT UNE EXCELLENTE RESISTANCE AU FROID EXTREME DANS UNE ZONE THERMIQUEMENT AFFECTEE ET SON PROCEDE DE FABRICATION**  
[72] LEE, SOON-GI, KR  
[72] KANG, SANG-DEOK, KR  
[71] POSCO CO., LTD, KR  
[85] 2024-05-27  
[86] 2022-12-20 (PCT/KR2022/020835)  
[87] (WO2023/121222)  
[30] KR (10-2021-0184272) 2021-12-21

[21] **3,239,333**  
[13] A1

[51] **Int.Cl. B22D 19/00 (2006.01) B22D 19/02 (2006.01) B22D 19/14 (2006.01) B22D 21/02 (2006.01) C22C 1/10 (2023.01) C22C 33/02 (2006.01) C22C 38/00 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/22 (2006.01) C22C 38/38 (2006.01) C22C 38/58 (2006.01)**  
[25] EN  
[54] **TUNGSTEN CARBIDE REINFORCED MANGANESE STEEL**  
[54] **ACIER AU MANGANESE RENFORCE PAR DU CARBURE DE TUNGSTENE**  
[72] MELK, LATIFA, SE  
[71] SANDVIK SRP AB, SE  
[85] 2024-05-27  
[86] 2022-12-15 (PCT/EP2022/086051)  
[87] (WO2023/111132)  
[30] EP (21215683.0) 2021-12-17

[21] **3,239,334**  
[13] A1

[51] **Int.Cl. C21D 8/02 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/38 (2006.01)**  
[25] EN  
[54] **AUSTENITIC STEEL HAVING EXCELLENT ULTRA-LOW TEMPERATURE TOUGHNESS IN WELD HEAT-AFFECTED ZONE, AND MANUFACTURING METHOD THEREFOR**  
[54] **ACIER AUSTENITIQUE AYANT UNE EXCELLENTE TENACITE A ULTRA-BASSE TEMPERATURE DANS UNE ZONE AFFECTEE PAR LA CHALEUR DE SOUDAGE, ET SON PROCEDE DE FABRICATION**  
[72] LEE, SOON-GI, KR  
[72] KANG, SANG-DEOK, KR  
[71] POSCO CO., LTD, KR  
[85] 2024-05-27  
[86] 2022-12-20 (PCT/KR2022/020836)  
[87] (WO2023/121223)  
[30] KR (10-2021-0184273) 2021-12-21

[21] **3,239,335**  
[13] A1

[51] **Int.Cl. A01N 25/00 (2006.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01) C02F 1/00 (2006.01) C02F 1/50 (2006.01) C02F 1/66 (2006.01) C02F 1/72 (2006.01) C02F 1/76 (2006.01)**  
[25] EN  
[54] **USE OF A CHLORINE DIOXIDE PRECURSOR FOR CONTROLLING ION METABOLISM OF BACTERIA IN COOLING WATER SYSTEMS**  
[54] **UTILISATION D'UN PRECURSEUR DE DIOXYDE DE CHLORE POUR REGULER LE METABOLISME IONIQUE DE BACTERIES DANS DES SYSTEMES D'EAU DE REFROIDISSEMENT**  
[72] GUPTA, AMIT, US  
[72] RODMAN, DAVID HARDIE, AU  
[72] MONTEROZO, FRITZ EARWIN PEREZ, PH  
[72] MANTRI, DINESH BALKISAN, IN  
[72] SURYATAMA, TOMY, ID  
[72] RAHMAN, FAJAR MUHAMMAD, ID  
[72] SYAH, ACHMAD, ID  
[72] ARIFFIN, NUGRAHA YOHANNES, ID  
[71] ECOLAB USA INC., US  
[85] 2024-05-27  
[86] 2022-11-28 (PCT/US2022/051105)  
[87] (WO2023/101916)  
[30] US (63/285,234) 2021-12-02  
[30] US (63/418,147) 2022-10-21

[21] **3,239,336**  
[13] A1

[51] **Int.Cl. E21B 10/04 (2006.01) E21B 25/10 (2006.01)**  
[25] EN  
[54] **CONTINUOUS SAMPLING DRILL BIT**  
[54] **TREPAN D'ECHANTILLONNAGE CONTINU**  
[72] BRUBACHER, ADRIAN, CA  
[72] DRENTH, CHRISTOPHER L., CA  
[71] VERACIO LTD., US  
[85] 2024-05-27  
[86] 2022-12-02 (PCT/US2022/051636)  
[87] (WO2023/102175)  
[30] US (63/285,844) 2021-12-03

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[21] **3,239,337**  
[13] A1

[51] **Int.Cl. H04N 21/234 (2011.01) H04N 21/2389 (2011.01) H04N 21/44 (2011.01) H04N 21/8358 (2011.01)**

[25] EN

[54] **PROVIDING FRAME ACCURATE REPLACEMENT SIGNALS IN CONTENT STREAMS**

[54] **FOURNITURE DE SIGNAUX DE REMPLACEMENT PRECIS DE TRAME DANS DES FLUX DE CONTENU**

[72] BOOTH, ROBERT, US  
[72] RIEDL, STEVEN, US  
[71] INVIDI TECHNOLOGIES CORPORATION, US  
[85] 2024-05-27  
[86] 2022-11-30 (PCT/US2022/080694)  
[87] (WO2023/102444)  
[30] US (63/284,544) 2021-11-30

[21] **3,239,339**  
[13] A1

[51] **Int.Cl. C07K 16/28 (2006.01)**

[25] EN

[54] **FIBROSIS TREATMENT WITH ANTI-TREM2 ANTIBODIES**

[54] **TRAITEMENT DE LA FIBROSE AU MOYEN D'ANTICORPS ANTI-TREM2**

[72] JURIC, VLADISLAVA, US  
[72] ELLIOTT, SERRA, US  
[72] LEVEY, ALICIA, US  
[71] PIONYR IMMUNOTHERAPEUTICS, INC., US  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/US2022/080560)  
[87] (WO2023/097327)  
[30] US (63/283,738) 2021-11-29

[21] **3,239,341**  
[13] A1

[51] **Int.Cl. E04F 15/10 (2006.01) E04F 15/16 (2006.01) E04F 15/20 (2006.01) E04F 15/22 (2006.01)**

[25] EN

[54] **ACOUSTIC ARTICLE, DECORATIVE ELEMENT, AND SYSTEM COMPRISING SAME**

[54] **ARTICLE ACOUSTIQUE, ELEMENT DECORATIF ET SYSTEME LE COMPRENANT**

[72] HODGKINS, CLARK, US  
[72] MORTON, BARRETT, US  
[72] BRUMBELOW, JULIE, US  
[72] ODUM, THOMAS, US  
[72] HART, DENNIS, US  
[71] SHAW INDUSTRIES GROUP, INC., US  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/US2022/051221)  
[87] (WO2023/097110)  
[30] US (63/283,955) 2021-11-29  
[30] US (63/295,163) 2021-12-30  
[30] US (63/357,863) 2022-07-01

[21] **3,239,342**  
[13] A1

[51] **Int.Cl. C12N 15/86 (2006.01)**

[25] EN

[54] **GENE THERAPY METHODS FOR TREATMENT OF DIABETES**

[54] **PROCEDES DE THERAPIE GENIQUE POUR LE TRAITEMENT DU DIABETE**

[72] HUGHES, MICHAEL, US  
[72] DHALL, SANDEEP, US  
[72] WU, HONGJU, US  
[72] FONSECA, VIVIAN A., US  
[71] JAGUAR GENE THERAPY, LLC, US  
[71] THE ADMINISTRATORS OF THE TULANE EDUCATIONAL FUND, US  
[85] 2024-05-27  
[86] 2022-11-30 (PCT/US2022/080686)  
[87] (WO2023/102442)  
[30] US (63/284,392) 2021-11-30

[21] **3,239,343**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01)**

[25] EN

[54] **QUINAZOLINE PAN-KRAS INHIBITORS**

[54] **INHIBITEURS DE PAN-KRAS DE QUINAZOLINE**

[72] WANG, XIAOLUN, US  
[72] IVETAC, ANTHONY, US  
[72] KULYK, SVITLANA, US  
[72] LAWSON, JOHN DAVID, US  
[72] MARX, MATTHEW ARNOLD, US  
[72] SMITH, CHRISTOPHER RONALD, US  
[71] MIRATI THERAPEUTICS, INC., US  
[85] 2024-05-27  
[86] 2023-02-03 (PCT/US2023/012299)  
[87] (WO2023/150284)  
[30] US (63/306,271) 2022-02-03  
[30] US (63/327,625) 2022-04-05  
[30] US (63/352,180) 2022-06-14  
[30] US (63/432,243) 2022-12-13  
[30] US (63/434,327) 2022-12-21  
[30] US (63/442,648) 2023-02-01

[21] **3,239,344**  
[13] A1

[51] **Int.Cl. A61N 7/00 (2006.01)**

[25] EN

[54] **A DEVICE FOR AFFECTING VASCULAR BLOOD FLOW AND METHODS THEREOF**

[54] **DISPOSITIF POUR AFFECTER UN FLUX SANGUIN VASCULAIRE ET METHODES ASSOCIEES**

[72] OZERI, SHAUL, IL  
[72] ATAROT, GAL, IL  
[72] POLICKER, SHAI, IL  
[71] NOVAPULSE LTD, IL  
[85] 2024-05-27  
[86] 2022-11-29 (PCT/IL2022/051266)  
[87] (WO2023/100175)  
[30] US (63/284,710) 2021-12-01  
[30] US (63/319,392) 2022-03-14

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[21] **3,239,366**  
[13] A1

[51] **Int.Cl. H04B 7/185 (2006.01)**  
[25] EN  
[54] **NON-GEOSTATIONARY ORBIT (NGSO) AND GEOSTATIONARY ORBIT (GEO) HYBRID NETWORK FOR UNINTERRUPTED COMMUNICATIONS**  
[54] **RESEAU HYBRIDE A ORBITE NON GEOSTATIONNAIRE (NGSO) ET A ORBITE GEOSTATIONNAIRE (GEO) DESTINE A DES COMMUNICATIONS SANS INTERRUPTION**  
[72] LEE, LIN-NAN, US  
[72] SU, CHI-JIUN, US  
[72] LIAU, VICTOR, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/051125)  
[87] (WO2023/101918)  
[30] US (17/542,292) 2021-12-03

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[21] **3,239,367**  
[13] A1

[51] **Int.Cl. A24F 40/60 (2020.01)**  
[25] EN  
[54] **DISPLAY CONTROL FOR AEROSOL-GENERATING DEVICE AND SYSTEM**  
[54] **COMMANDE D'AFFICHAGE POUR DISPOSITIF ET SYSTEME DE GENERATION D'AEROSOL**  
[72] AL-AMIN, MOHAMMED, GB  
[72] WOODCOCK, DOMINIC, GB  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2024-05-21  
[86] 2022-11-08 (PCT/GB2022/052822)  
[87] (WO2023/094793)  
[30] GB (2117069.1) 2021-11-26

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[21] **3,239,369**  
[13] A1

[51] **Int.Cl. F04B 37/14 (2006.01) F04B 19/04 (2006.01) F04B 41/06 (2006.01) F04C 25/02 (2006.01) F04D 19/04 (2006.01)**  
[25] FR  
[54] **VACUUM PUMP AND FACILITY FOR PROCESSING AND/OR PACKAGING FOOD PRODUCTS**  
[54] **POMPE A VIDE ET INSTALLATION DE TRAITEMENT ET/OU D'EMBALLAGE DE PRODUITS ALIMENTAIRES**  
[72] FELTEN, NICOLAS, FR  
[72] LIPPELT, ERIK, DE  
[71] ATELIERS BUSCH SA, CH  
[85] 2024-05-28  
[86] 2023-01-24 (PCT/EP2023/051595)  
[87] (WO2023/144102)  
[30] CH (000077/2022) 2022-01-26

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[21] **3,239,370**  
[13] A1

[51] **Int.Cl. H04W 24/10 (2009.01) H04W 48/16 (2009.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR HANDOVER**  
[54] **PROCEDE ET APPAREIL DE TRANSFERT**  
[72] WU, LIANHAI, CN  
[72] DAI, MINGZENG, CN  
[72] WANG, HAIMING, CN  
[72] XU, MIN, CN  
[72] HU, JIE, CN  
[71] LENOVO (BEIJING) LIMITED, CN  
[85] 2024-05-28  
[86] 2022-01-04 (PCT/CN2022/070123)  
[87] (WO2023/130213)

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[21] **3,239,371**  
[13] A1

[51] **Int.Cl. H04L 5/00 (2006.01) H04W 64/00 (2009.01)**  
[25] EN  
[54] **ON-DEMAND PRS CONFIGURATION PARAMETERS**  
[54] **PARAMETRES DE CONFIGURATION DE PRS A LA DEMANDE**  
[72] THOMAS, ROBIN, DE  
[72] CHOI, HYUNG-NAM, DE  
[71] LENOVO (SINGAPORE) PTE. LTD, SG  
[85] 2024-05-28  
[86] 2023-02-08 (PCT/IB2023/051137)  
[87] (WO2023/152662)  
[30] US (63/307,984) 2022-02-08

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[21] **3,239,373**  
[13] A1

[51] **Int.Cl. A23K 20/147 (2016.01) A23K 20/158 (2016.01) A23K 20/163 (2016.01) A23K 50/40 (2016.01)**  
[25] EN  
[54] **METHODS AND COMPOSITIONS FOR PROVIDING A HEALTH BENEFIT IN AN ANIMAL**  
[54] **PROCEDES ET COMPOSITIONS POUR PROCURER UN BIENFAIT POUR LA SANTE A UN ANIMAL**  
[72] PAN, YUANLONG, US  
[72] BHATNAGAR, SANDEEP, US  
[72] XU, HUI, US  
[72] SPEARS, JULIE KRISTINE, US  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/IB2022/061502)  
[87] (WO2023/095096)  
[30] US (63/283,751) 2021-11-29

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[21] **3,239,374**  
[13] A1

[51] **Int.Cl. H04W 76/10 (2018.01) H04W 76/30 (2018.01)**

[25] EN

[54] **METHODS AND APPARATUS FOR HANDLING A RELAY LINK WITH TAU AND RNAU IN L2 U2N RELAY CASE**

[54] **PROCEDES ET APPAREILS DE GESTION D'UNE LIAISON RELAIS AVEC TAU ET RNAU EN CAS DE RELAIS U2N DE L2**

[72] WU, LIANHAI, CN  
[72] YUE, RAN, CN  
[72] HAN, JING, CN  
[72] WANG, HAIMING, CN  
[72] XU, MIN, CN  
[71] LENOVO (BEIJING) LIMITED, CN  
[85] 2024-05-28  
[86] 2022-02-10 (PCT/CN2022/075816)  
[87] (WO2023/150962)

[21] **3,239,375**  
[13] A1

[51] **Int.Cl. B23K 1/00 (2006.01) B23K 35/02 (2006.01)**

[25] EN

[54] **BRAZING SHEETS, ARTICLES FORMED FROM BRAZING SHEETS, AND METHODS OF FORMING ARTICLES**

[54] **TOLES A BRASAGE, ARTICLES FORMES A PARTIR DESDITES TOLES A BRASAGE ET PROCEDES DE FORMATION D'ARTICLES**

[72] KULOVITS, ANDREAS K., US  
[72] ZONKER, HARRY R., US  
[71] ARCONIC TECHNOLOGIES LLC, US  
[85] 2024-05-28  
[86] 2022-10-24 (PCT/US2022/078582)  
[87] (WO2023/122375)  
[30] US (63/265,942) 2021-12-23

[21] **3,239,376**  
[13] A1

[51] **Int.Cl. B60W 50/02 (2012.01) B60W 60/00 (2020.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR OPERATING AN AUTONOMOUS AGENT WITH A REMOTE OPERATOR**

[54] **PROCEDE ET SYSTEME POUR FAIRE FONCTIONNER UN AGENT AUTONOME AVEC UN OPERATEUR A DISTANCE**

[72] KUMAVAT, APEKSHA, US  
[72] NARANG, ARJUN, US  
[72] NARANG, GAUTAM, US  
[72] KADEM, DHARMATEJA, US  
[72] NEWQUIST, GUNNAR, US  
[71] GATIK AI INC., US  
[85] 2024-05-28  
[86] 2022-12-06 (PCT/US2022/051947)  
[87] (WO2023/107441)  
[30] US (63/286,448) 2021-12-06

[21] **3,239,379**  
[13] A1

[51] **Int.Cl. C07D 491/22 (2006.01)**

[25] EN

[54] **METHOD FOR PREPARING DRUG-LINKER CONJUGATE**

[54] **METHODE DE PREPARATION D'UN CONJUGUE MEDICAMENT-LIEUR**

[72] HAN, WEIBIAO, CN  
[72] CHEN, XING, CN  
[72] SONG, YAOYAO, CN  
[72] HUANG, ZHONGCHAO, CN  
[72] XIA, DONGLIANG, CN  
[72] TAN, SHIJIE, CN  
[72] WANG, TAO, CN  
[72] LIU, ZHIHUAN, CN  
[72] QI, HONGXIA, CN  
[72] LIANG, YUFENG, CN  
[72] SONG, HONGMEI, CN  
[72] GE, JUNYOU, CN  
[72] WANG, JINGYI, CN  
[71] SICHUAN KELUN-BIOTECH BIOPHARMACEUTICAL CO., LTD., CN  
[85] 2024-05-28  
[86] 2022-11-22 (PCT/CN2022/133439)  
[87] (WO2023/098515)  
[30] CN (202111473108.9) 2021-12-02

[21] **3,239,381**  
[13] A1

[51] **Int.Cl. C07K 14/005 (2006.01) C12N 15/113 (2010.01) C07K 14/47 (2006.01) C12N 7/00 (2006.01) C12N 9/22 (2006.01) C12N 15/10 (2006.01) C12N 15/62 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR EFFICIENT IN VIVO DELIVERY**

[54] **COMPOSITIONS ET METHODES POUR ADMINISTRATION IN VIVO EFFICACE**

[72] LIU, DAVID R., US  
[72] CAHILL, THOMAS J. III, US  
[72] DESOUZA, PHILIP, US  
[72] RAGURAM, ADITYA, US  
[72] BANSKOTA, SAMAGYA, US  
[72] AN, MEIRUI, US  
[71] THE BROAD INSTITUTE INC., US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/US2022/080856)  
[87] (WO2023/102550)  
[30] US (63/285,995) 2021-12-03  
[30] US (63/298,611) 2022-01-11  
[30] US (63/298,621) 2022-01-11  
[30] US (63/298,626) 2022-01-11  
[30] US (63/423,372) 2022-11-07

[21] **3,239,382**  
[13] A1

[51] **Int.Cl. A23K 20/147 (2016.01) A23K 20/158 (2016.01) A23K 20/163 (2016.01) A23K 50/40 (2016.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS FOR PROVIDING A HEALTH BENEFIT IN AN ANIMAL**

[54] **PROCEDES ET COMPOSITIONS POUR FOURNIR UN BENEFICE DE SANTE A UN ANIMAL**

[72] PAN, YUANLONG, US  
[72] XU, HUI, US  
[72] BHATNAGAR, SANDEEP, US  
[72] SPEARS, JULIE KRISTINE, US  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/IB2022/061504)  
[87] (WO2023/095098)  
[30] US (63/283,865) 2021-11-29



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[21] **3,239,385**  
[13] A1

[51] **Int.Cl. C08B 15/06 (2006.01) C08L 1/08 (2006.01)**  
[25] EN  
[54] **CELLULOSE CARBAMATE POLYMER**  
[54] **POLYMER DE CARBAMATE DE CELLULOSE**  
[72] MALANIN, ERKKI, FI  
[72] MAKELA, JANI, FI  
[72] NUOPPONEN, MARKUS, FI  
[72] SIREN, SAKARI, FI  
[71] INFINITED FIBER COMPANY OY, FI  
[85] 2024-05-28  
[86] 2023-01-05 (PCT/FI2023/050011)  
[87] (WO2023/131749)  
[30] FI (20225009) 2022-01-07

[21] **3,239,389**  
[13] A1

[51] **Int.Cl. A61K 9/08 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61K 47/26 (2006.01) A61P 7/04 (2006.01) A61P 29/00 (2006.01)**  
[25] EN  
[54] **METHOD FOR PREPARING ANTIBODY-CONTAINING FORMULATION**  
[54] **PROCEDE DE PREPARATION D'UNE FORMULATION CONTENANT UN ANTICORPS**  
[72] SOEDA, KOHEI, JP  
[72] FUKUDA, MASAKAZU, JP  
[72] TAKAHASHI, MASAYA, JP  
[72] IMAI, HIROTAKA, JP  
[72] SAITOH, SATOSHI, JP  
[72] DUBOEUF, JEREMY, CH  
[72] RAVURI, KISHORE, CH  
[72] KOPF, ROBERT, CH  
[72] CHEN, WEI, CH  
[72] OLTRA, NURIA SANCHO, CH  
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP  
[71] F. HOFFMANN-LA ROCHE AG, CH  
[85] 2024-05-28  
[86] 2022-12-01 (PCT/JP2022/044355)  
[87] (WO2023/100975)  
[30] JP (2021-195788) 2021-12-01

[21] **3,239,391**  
[13] A1

[51] **Int.Cl. H01M 50/593 (2021.01) H01M 50/107 (2021.01) H01M 50/152 (2021.01) H01M 50/167 (2021.01) H01M 50/186 (2021.01) H01M 50/213 (2021.01) H01M 50/538 (2021.01)**  
[25] EN  
[54] **BATTERY, BATTERY PACK AND VEHICLE INCLUDING THE SAME**  
[54] **MODULE DE BATTERIE ET BLOC-BATTERIE, ET VEHICULE LES COMPRENANT**  
[72] KANG, BO-HYUN, KR  
[72] KIM, DO-GYUN, KR  
[72] MIN, GEON-WOO, KR  
[72] JO, MIN-KI, KR  
[72] CHOI, SU-JI, KR  
[72] HWANGBO, KWANG-SU, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2024-05-28  
[86] 2023-01-20 (PCT/KR2023/001075)  
[87] (WO2023/149689)  
[30] KR (10-2022-0014958) 2022-02-04  
[30] KR (10-2022-0088961) 2022-07-19

[21] **3,239,392**  
[13] A1

[51] **Int.Cl. C08L 55/02 (2006.01) C08F 210/02 (2006.01) C08F 220/14 (2006.01) C08F 220/32 (2006.01) C08L 23/08 (2006.01)**  
[25] EN  
[54] **LOW-FLUIDITY POLYMER COMPOSITION INCLUDING ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER AND TERPOLYMER AND METHOD OF REDUCING FLUIDITY OF ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER**  
[54] **COMPOSITION DE POLYMERES A FAIBLE FLUIDITE COMPRENANT UN COPOLYMERE ACRYLONITRILE-BUTADIENE-STYRENE ET UN TERPOLYMER ET PROCEDE DE REDUCTION DE LA FLUIDITE D'UN COPOLYMERE ACRYLONITRILE-BUTADIENE-STYRENE**  
[72] JACQUES, GUILLAUME, FR  
[72] LOERCH, ELISABETH, FR  
[71] SK GEO CENTRIC CO., LTD., KR  
[85] 2024-05-28  
[86] 2022-11-25 (PCT/KR2022/018804)  
[87] (WO2023/106705)  
[30] FR (FR2113244) 2021-12-09

[21] **3,239,393**  
[13] A1

[51] **Int.Cl. E21B 34/06 (2006.01) E21B 34/14 (2006.01) F04B 53/12 (2006.01) F16K 15/04 (2006.01)**  
[25] EN  
[54] **VALVE ASSEMBLY FOR DOWNHOLE PUMP OF RECIPROCATING PUMP SYSTEM**  
[54] **ENSEMBLE SOUPAPE POUR POMPE DE FOND DE TROU DE SYSTEME DE POMPE ALTERNATIVE**  
[72] STACHOWIAK, JR. JOHN E., US  
[72] GALLE, JUSTIN R., US  
[71] WEATHERFORD TECHNOLOGY HOLDINGS, LLC, US  
[85] 2024-05-28  
[86] 2022-10-29 (PCT/US2022/048308)  
[87] (WO2023/129268)  
[30] US (17/563,303) 2021-12-28

[21] **3,239,395**  
[13] A1

[51] **Int.Cl. E04B 1/04 (2006.01)**  
[25] EN  
[54] **MODULAR CONSTRUCTION SYSTEM**  
[54] **SYSTEME DE CONSTRUCTION MODULAIRE**  
[72] DA SILVA OLIVEIRA, CARLOS ANTONIO, PT  
[71] DDN INVESTIMENTOS S.A., PT  
[85] 2024-05-28  
[86] 2021-12-16 (PCT/IB2021/061827)  
[87] (WO2023/105273)  
[30] PT (117630) 2021-12-10

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[21] **3,239,397**  
[13] A1

[51] **Int.Cl. F16K 15/03 (2006.01) F16K 1/20 (2006.01)**

[25] EN

[54] **A VALVE AND A METHOD FOR CONTROLLING A PRESSURE DIFFERENCE BETWEEN A FLUID ON AN INSIDE AND AN OUTSIDE OF A CHAMBER**

[54] **SOUPAPE ET PROCEDE DE COMMANDE D'UNE DIFFERENCE DE PRESSION ENTRE UN FLUIDE SUR UN INTERIEUR ET UN EXTERIEUR D'UNE CHAMBRE**

[72] MALMIN, ARNE, NO  
[72] HAALAND, ARNE THOMAS, NO  
[71] CUBILITY AS, NO  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/NO2022/050275)  
[87] (WO2023/113607)  
[30] NO (20211524) 2021-12-17

[21] **3,239,401**  
[13] A1

[51] **Int.Cl. G06Q 50/18 (2012.01) G06Q 10/10 (2023.01)**

[25] EN

[54] **METHOD AND SYSTEM FOR ENABLING VIDEO CONFERENCING WITH LEGAL COUNSEL**

[54] **PROCEDE ET SYSTEME POUR PERMETTRE UNE VIDEOCONFERENCE AVEC CONSEILLER JURIDIQUE**

[72] LEWIS, BRADLEY CORNEL, US  
[71] LEWIS, BRADLEY CORNEL, US  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/US2022/051666)  
[87] (WO2023/102191)  
[30] US (63/285,874) 2021-12-03  
[30] US (18/073,135) 2022-12-01

[21] **3,239,402**  
[13] A1

[51] **Int.Cl. A61K 39/112 (2006.01) A61K 39/09 (2006.01) C07K 14/195 (2006.01) A61P 31/04 (2006.01)**

[25] EN

[54] **A MAPS VACCINE TARGETING SALMONELLA ENTERICA SEROVARS**

[54] **VACCIN MAPS CIBLANT DES SEROVARS DE SALMONELLA ENTERICA**

[72] MALLEY, RICHARD, US  
[72] ZHANG, FAN, US  
[72] LU, YINGJIE, US  
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/080531)  
[87] (WO2023/102359)  
[30] US (63/285,463) 2021-12-02

[21] **3,239,405**  
[13] A1

[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/10 (2006.01) A24F 23/02 (2006.01)**

[25] EN

[54] **AN ORAL SMOKELESS PRODUCT COMPRISING AN ACTIVE AGENT AND/OR A FLAVOUR**

[54] **PRODUIT ORAL SANS FUMEE COMPRENANT UN AGENT ACTIF ET/OU UN AROME**

[72] SEILER, LINNEA, SE  
[72] ELFSTRAND, ANDREAS, SE  
[71] SWEDISH MATCH NORTH EUROPE AB, SE  
[85] 2024-05-28  
[86] 2022-12-06 (PCT/EP2022/084548)  
[87] (WO2023/104774)  
[30] EP (21212931.6) 2021-12-07

[21] **3,239,407**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) C07K 14/435 (2006.01) C07K 19/00 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **DESIGNED REPEAT DOMAINS WITH DUAL BINDING SPECIFICITY AND THEIR USE**

[54] **DOMAINES DE REPETITION MODELISES A DOUBLE SPECIFICITE DE LIAISON ET LEUR UTILISATION**

[72] FONTAINE, SIMON, CH  
[72] BOSSHART, ANDREAS, CH  
[72] SCHLERETH, BERND, CH  
[72] STEINER, DANIEL, CH  
[72] WALSER, MARCEL, CH  
[71] MOLECULAR PARTNERS AG, CH  
[85] 2024-05-28  
[86] 2022-12-14 (PCT/EP2022/085794)  
[87] (WO2023/110983)  
[30] EP (21214519.7) 2021-12-14

[21] **3,239,408**  
[13] A1

[51] **Int.Cl. F25B 17/08 (2006.01) F25B 37/00 (2006.01) F25B 39/02 (2006.01) F28D 5/02 (2006.01) F28F 1/12 (2006.01) F28F 13/18 (2006.01) F28F 25/02 (2006.01)**

[25] EN

[54] **MULTI-STAGE ADSORBER DEVICE AND USES THEREOF FOR CHILLING AND/OR ATMOSPHERIC WATER HARVESTING**

[54] **DISPOSITIF ADSORBEUR MULTI-ETAGE ET SES UTILISATIONS POUR LA REFRIGERATION ET/OU LA COLLECTE D'EAU ATMOSPHERIQUE**

[72] ONG, CHIN LEE, CH  
[72] RUBI, MATHIEU, CH  
[71] FRESHAPE SA, CH  
[85] 2024-05-28  
[86] 2021-12-02 (PCT/IB2021/061229)  
[87] (WO2023/099945)

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[21] **3,239,411**  
[13] A1

[51] **Int.Cl. E21C 27/24 (2006.01) E01C 23/088 (2006.01)**  
[25] EN  
[54] **DEVICE FOR MILLING IN PARTICULAR ROCK AND OTHER MATERIALS**  
[54] **DISPOSITIF DE BROYAGE EN PARTICULIER DE ROCHE ET D'AUTRES MATERIAUX**  
[72] BECHEM, ULRICH, DE  
[72] BECHEM, PHILIP, DE  
[71] CONTEC MASCHINENBAU & ENTWICKLUNGSTECHNIK GMBH, DE  
[85] 2024-05-28  
[86] 2022-11-23 (PCT/EP2022/082923)  
[87] (WO2023/099300)  
[30] DE (10 2021 131 432.1) 2021-11-30

[21] **3,239,417**  
[13] A1

[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/155 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01) C07K 14/005 (2006.01)**  
[25] EN  
[54] **HUMAN METAPNEUMOVIRUS VACCINES**  
[54] **VACCINS CONTRE LE METAPNEUMOVIRUS HUMAIN**  
[72] CHAN, YVONNE, US  
[72] SASMAL, SUKANYA, US  
[72] STUEBLER, ANTONIA, US  
[72] KISHKO, MICHAEL, US  
[72] MUNDLE, SOPHIA, US  
[72] ZHANG, LINONG, US  
[72] DINAPOLI, JOSH, US  
[72] ALAMARES-SAPUAY, JUDITH, US  
[72] ANOSOVA, NATALIE, US  
[72] CHIVUKULA, SUDHA, US  
[72] DANZ, HILLARY, US  
[72] STRUGNELL, TOD, US  
[72] GROPPPO, RACHEL, US  
[71] SANOFI PASTEUR INC., US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/080555)  
[87] (WO2023/102373)  
[30] US (63/284,405) 2021-11-30

[21] **3,239,418**  
[13] A1

[51] **Int.Cl. A61K 31/52 (2006.01) A61K 31/7052 (2006.01) A61K 31/706 (2006.01)**  
[25] EN  
[54] **SUPPLEMENTAL COATING AND RELATED METHOD**  
[54] **REVETEMENT SUPPLEMENTAIRE ET PROCEDE ASSOCIE**  
[72] GRIFFIN, DAVID, US  
[72] DAVIS, BINH, US  
[72] RATKOWSKI, HUBERT, US  
[71] NUTRAMAX LABORATORIES, INC., US  
[85] 2024-05-28  
[86] 2022-12-07 (PCT/US2022/081071)  
[87] (WO2023/107990)  
[30] US (63/287,114) 2021-12-08

[21] **3,239,421**  
[13] A1

[51] **Int.Cl. F16L 23/12 (2006.01) F16L 29/04 (2006.01) F16L 59/18 (2006.01)**  
[25] FR  
[54] **COUPLING DEVICE, AND METHOD FOR FLUSHING SAME**  
[54] **DISPOSITIF D'ACCOUPEMENT ET SON PROCEDE DE PURGE**  
[72] COLEIRO, GAETAN, FR  
[72] BIZEL, LOUIS, FR  
[72] PENNEC, YANN, FR  
[71] L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE, FR  
[85] 2024-05-28  
[86] 2022-11-23 (PCT/EP2022/082954)  
[87] (WO2023/134912)  
[30] FR (FR2200343) 2022-01-17

[21] **3,239,423**  
[13] A1

[51] **Int.Cl. H01P 3/12 (2006.01) B33Y 40/20 (2020.01) B22F 10/28 (2021.01) B22F 10/62 (2021.01) B22F 10/68 (2021.01)**  
[25] EN  
[54] **MANUFACTURING PROCESS OF A WAVEGUIDE DEVICE BY ADDITIVE MANUFACTURING AND POLISHING**  
[54] **PROCEDE DE FABRICATION D'UN DISPOSITIF A GUIDE D'ONDES PAR FABRICATION ADDITIVE ET PAR POLISSAGE**  
[72] DE RIJK, EMILE, CH  
[72] BILLOD, MATHIEU, FR  
[72] BLANC, PHILIPPE, CH  
[71] SWISSTO12 SA, CH  
[85] 2024-05-28  
[86] 2022-12-07 (PCT/IB2022/061877)  
[87] (WO2023/105436)  
[30] FR (FR2113174) 2021-12-08

[21] **3,239,424**  
[13] A1

[25] EN  
[54] **EPHEDRINE LIQUID FORMULATIONS**  
[54] **EFORMULATIONS LIQUIDES D'EPHEDRINE**  
[72] UELLEN, ANDREAS, AT  
[72] KITZ, KERSTIN, AT  
[72] ZAUNER, CHRISTOPH, AT  
[72] STEURER, MATTHIAS, AT  
[71] FRESENIUS KABI AUSTRIA GMBH, AT  
[85] 2024-05-28  
[86] 2022-11-22 (PCT/IB2022/061283)  
[87] (WO2023/100031)  
[30] US (17/542,432) 2021-12-05

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[21] **3,239,425**  
[13] A1

[51] **Int.Cl. G01N 33/68 (2006.01)**  
[25] EN  
[54] **METHOD AND TOOLS FOR THE DETERMINATION OF CONFORMATIONS AND CONFORMATIONAL CHANGES OF PROTEINS AND OF DERIVATIVES THEREOF**  
[54] **PROCEDE ET OUTILS POUR LA DETERMINATION DE CONFORMATIONS ET DE CHANGEMENTS CONFORMATIONNELS DE PROTEINES ET DE DERIVES DE CELLES-CI**

[72] PICOTTI, PAOLA, CH  
[72] VIZOVISEK, MATEJ, CH  
[72] RINNER, OLIVER, CH  
[72] REITER, LUKAS, CH  
[72] BEATON, NIGEL, CH  
[72] BRUDERER, ROLAND, CH  
[72] SABINO, FABIO MIRA ROCHA, DK  
[71] BIOGNOSYS AG, CH  
[71] ETH ZURICH, CH  
[85] 2024-05-28  
[86] 2022-11-25 (PCT/EP2022/083223)  
[87] (WO2023/099341)  
[30] EP (21212313.7) 2021-12-03

[21] **3,239,426**  
[13] A1

[51] **Int.Cl. C04B 9/04 (2006.01) C01B 32/55 (2017.01) C04B 9/02 (2006.01) C04B 9/11 (2006.01) C04B 18/06 (2006.01) C04B 22/06 (2006.01) C04B 28/08 (2006.01) C04B 28/10 (2006.01)**

[25] EN  
[54] **USE OF BRINE IN A METHOD OF MAKING CEMENTITIOUS COMPOSITIONS AND USES THEREOF**  
[54] **UTILISATION DE SAUMURE DANS PROCEDE DE FABRICATION DE COMPOSITIONS CIMENAIRES ET LEURS UTILISATIONS**

[72] MARSHALL, SAM FRANKLIN, US  
[72] SWISHER, REBEKKAH, US  
[71] PARTANNA GLOBAL, INC., US  
[85] 2024-05-28  
[86] 2023-09-06 (PCT/US2023/032043)  
[87] (WO2024/054473)  
[30] US (63/374,859) 2022-09-07

[21] **3,239,427**  
[13] A1

[51] **Int.Cl. B05B 15/68 (2018.01) A01C 23/04 (2006.01) B05B 1/20 (2006.01) B05B 12/12 (2006.01)**

[25] EN  
[54] **AGRICULTURAL SYSTEM FOR LOW AND HIGH-RESOLUTION SPOT SPRAYING AND METHOD FOR OPERATING SUCH A SYSTEM**  
[54] **SYSTEME AGRICOLE POUR PULVERISATION LOCALISEE A BASSE ET HAUTE RESOLUTION ET PROCEDE DE FONCTIONNEMENT D'UN TEL SYSTEME**

[72] TANNER, STEVE, CH  
[71] ECOROBOTIX SA, CH  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/IB2022/061597)  
[87] (WO2023/100102)  
[30] CH (CH070685/2021) 2021-12-02  
[30] CH (CH000321/2022) 2022-03-24

[21] **3,239,429**  
[13] A1

[51] **Int.Cl. H01M 50/583 (2021.01) H01M 50/538 (2021.01) H01M 50/586 (2021.01)**

[25] EN  
[54] **COLLECTOR AND CYLINDRAL SECONDARY BATTERY INCLUDING THE SAME E**  
[54] **PLAQUE DE COLLECTE DE COURANT ET BATTERIE SECONDAIRE CYLINDRIQUE LA COMPRENANT**

[72] CHOI, SU JI, KR  
[72] HWANGBO, KWANG SU, KR  
[72] KIM, DO GYUN, KR  
[72] JO, MIN KI, KR  
[72] KO, KWANG HUN, KR  
[71] LG ENERGY SOLUTION, LTD., KR  
[85] 2024-05-28  
[86] 2023-01-25 (PCT/KR2023/001142)  
[87] (WO2023/146275)  
[30] KR (10-2022-0010936) 2022-01-25

[21] **3,239,433**  
[13] A1

[51] **Int.Cl. A47J 31/22 (2006.01)**

[25] EN  
[54] **BEVERAGE PREPARATION BY STABLE CAPSULE CENTRIFUGATION**  
[54] **PREPARATION DE BOISSONS PAR CENTRIFUGATION DE CAPSULE STABLE**

[72] FANKHAUSER, MARCEL, CH  
[72] GAVILLET, GILLES, CH  
[72] SCHENK, RUDOLF, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2024-05-28  
[86] 2022-12-21 (PCT/EP2022/087150)  
[87] (WO2023/118249)  
[30] EP (21216927.0) 2021-12-22

[21] **3,239,435**  
[13] A1

[51] **Int.Cl. H01M 10/052 (2010.01) H01M 10/0562 (2010.01) H01M 4/525 (2010.01)**

[25] EN  
[54] **CATHOLYTES FOR A SOLID-STATE BATTERY**  
[54] **CATHOLYTES POUR BATTERIE A L'ETAT SOLIDE**

[72] YANG, ARAM, US  
[72] CHAN, JAN, US  
[71] QUANTUMSCAPE BATTERY, INC., US  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/US2022/051433)  
[87] (WO2023/121838)  
[30] US (63/264,693) 2021-11-30

[21] **3,239,439**  
[13] A1

[51] **Int.Cl. E04F 13/18 (2006.01) E04F 15/10 (2006.01)**

[25] EN  
[54] **DECORATIVE PANEL AND DECORATIVE COVERING**  
[54] **PANNEAU DECORATIF ET REVETEMENT DECORATIF**

[72] BOUCKE, EDDY ALBERIC, BE  
[71] I4F LICENSING NV, BE  
[85] 2024-05-28  
[86] 2022-12-28 (PCT/EP2022/087958)  
[87] (WO2023/126440)  
[30] NL (2030320) 2021-12-28

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[21] **3,239,441**  
[13] A1

[25] EN  
[54] **DECORATIVE PANEL AND METHOD OF PRODUCING SUCH A PANEL**  
[54] **PANNEAU DECORATIF ET PROCEDE DE FABRICATION D'UN TEL PANNEAU**  
[72] BOUCKE, EDDY ALBERIC, BE  
[71] I4F LICENSING NV, BE  
[85] 2024-05-28  
[86] 2022-12-28 (PCT/EP2022/087962)  
[87] (WO2023/126444)  
[30] NL (2030317) 2021-12-28  
[30] NL (2030775) 2022-01-28

[21] **3,239,443**  
[13] A1

[51] **Int.Cl. B44C 1/22 (2006.01) E04F 15/02 (2006.01)**  
[25] EN  
[54] **METHOD FOR MANUFACTURING PERSONALIZED DECORATIVE LAMINATED PANELS, AND PERSONALIZED DECORATIVE LAMINATED PANELS**  
[54] **PROCEDE DESTINE A LA FABRICATION DE PANNEAUX STRATIFIES DECORATIFS PERSONNALISES ET PANNEAUX STRATIFIES DECORATIFS PERSONNALISES**  
[72] BOUCKE, EDDY ALBERIC, BE  
[71] I4F LICENSING NV, BE  
[85] 2024-05-28  
[86] 2022-12-28 (PCT/EP2022/087960)  
[87] (WO2023/126442)  
[30] NL (2030319) 2021-12-28

[21] **3,239,444**  
[13] A1

[25] EN  
[54] **DECORATIVE ANTI-SLIP FLOOR COVERING ELEMENT AND DECORATIVE ANTI-SLIP FLOOR COVERING**  
[54] **ELEMENT DE REVETEMENT DE SOL ANTIDERAPANT DECORATIF ET REVETEMENT DE SOL ANTIDERAPANT DECORATIF**  
[72] BOUCKE, EDDY ALBERIC, BE  
[71] I4F LICENSING NV, BE  
[85] 2024-05-28  
[86] 2022-12-28 (PCT/EP2022/087961)  
[87] (WO2023/126443)  
[30] NL (2030318) 2021-12-28

[21] **3,239,445**  
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) A61K 35/17 (2015.01) C07K 14/725 (2006.01) C07K 14/735 (2006.01)**  
[25] EN  
[54] **MULTICHAIN ANTIGEN-SPECIFIC RECEPTORS FOR CELL-BASED IMMUNOTHERAPY**  
[54] **RECEPTEURS SPECIFIQUES A L'ANTIGENE A CHAINES MULTIPLES POUR IMMUNOTHERAPIE A BASE DE CELLULES**  
[72] TRICK, FABIAN ENRIK, CH  
[72] BENENSON, YAAKOV, CH  
[71] ETH ZURICH, CH  
[85] 2024-05-28  
[86] 2022-12-23 (PCT/EP2022/087835)  
[87] (WO2023/118610)  
[30] EP (21217757.0) 2021-12-24

[21] **3,239,446**  
[13] A1

[51] **Int.Cl. E21B 47/13 (2012.01) E21B 47/12 (2012.01) E21B 47/14 (2006.01)**  
[25] EN  
[54] **WIRELESS DATA TRANSMISSION SYSTEMS, AND RELATED DEVICES AND METHODS**  
[54] **SYSTEMES DE TRANSMISSION DE DONNEES SANS FIL, ET DISPOSITIFS ET PROCEDES ASSOCIES**  
[72] WILENSKI, THOMAS, US  
[71] INTELLISERV, LLC, US  
[85] 2024-05-28  
[86] 2022-12-12 (PCT/US2022/081336)  
[87] (WO2023/114702)  
[30] US (17/551,658) 2021-12-15

[21] **3,239,448**  
[13] A1

[51] **Int.Cl. C12N 9/58 (2006.01) A01N 63/38 (2020.01) C05F 17/20 (2020.01) C07K 1/12 (2006.01)**  
[25] EN  
[54] **FUNGAL PROTEASES, TREATED COMPOSITIONS, AND USES THEREOF**  
[54] **PROTEASES FONGIQUES, COMPOSITIONS TRAITEES ET LEURS UTILISATIONS**  
[72] DE COTE, JOSE ANTONIO, US  
[71] SHARED-X LLC, US  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/US2022/080860)  
[87] (WO2023/102551)  
[30] US (63/264,931) 2021-12-03

[21] **3,239,450**  
[13] A1

[51] **Int.Cl. C07C 27/12 (2006.01) C07C 27/16 (2006.01) C07C 27/26 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR SELECTIVE REDOX REACTIONS**  
[54] **SYSTEMES ET PROCEDES POUR REACTIONS D'OXYDOREDUCTION SELECTIVE**  
[72] SOANE, DAVID S., US  
[71] SOANE LABS, LLC, US  
[85] 2024-05-28  
[86] 2022-12-13 (PCT/US2022/052660)  
[87] (WO2023/114182)  
[30] US (63/288,876) 2021-12-13

[21] **3,239,451**  
[13] A1

[51] **Int.Cl. B29C 48/00 (2019.01) D01D 1/06 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR PRODUCING A BUNDLE OF FILAMENTS AND/OR A YARN**  
[54] **SYSTEMES ET PROCEDES DE PRODUCTION D'UN FAISCEAU DE FILAMENTS ET/OU D'UN FIL**  
[72] CASCIO, ANTHONY, US  
[72] MASON, JAMES, US  
[72] AMOS, DANIEL, US  
[72] JONES, LUCINDA, US  
[72] BAILEY, MARGARET ARCHELLE, US  
[72] GALLMAN, MICHAEL CHRISTOPHER, US  
[72] MERRICK, JEFFREY FRANK, US  
[72] WATKINS, GARNETT ANSON JR., US  
[71] ALADDIN MANUFACTURING CORPORATION, US  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/IB2022/061696)  
[87] (WO2023/111759)  
[30] US (63/361,397) 2021-12-15

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[21] **3,239,452**  
[13] A1

[25] EN  
[54] **FUNCTIONAL AAV CAPSIDS FOR SYSTEMIC ADMINISTRATION**  
[54] **CAPSIDES AAV FONCTIONNELLES POUR ADMINISTRATION SYSTEMIQUE**  
[72] PACKARD, THOMAS, US  
[72] HUSS, DAVID JEFFREY, US  
[72] VIGNEAULT, FRANCOIS, US  
[72] BRIGGS, ADRIAN WRANGHAM, US  
[72] HAUSE, JR. RONALD JAMES, US  
[72] STEIN, KEVIN CHRISTOPHER, US  
[72] JIANG, YUE, US  
[71] SHAPE THERAPEUTICS INC., US  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/US2022/051452)  
[87] (WO2023/102079)  
[30] US (63/284,977) 2021-12-01  
[30] US (63/342,032) 2022-05-13  
[30] US (63/354,635) 2022-06-22  
[30] US (63/399,164) 2022-08-18

[21] **3,239,453**  
[13] A1

[25] EN  
[54] **APPARATUS FOR DETECTING ANALYTES**  
[54] **APPAREIL DE DETECTION D'ANALYTES**  
[72] KING, PAUL JEREMY, AU  
[72] LO, CAMDEN YEUNG-WAH, AU  
[71] QUANTUM IP HOLDINGS PTY LIMITED, AU  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/IB2022/061736)  
[87] (WO2023/100157)  
[30] AU (2021903912) 2021-12-02

[21] **3,239,457**  
[13] A1

[51] **Int.Cl. G02F 1/21 (2006.01)**  
[25] EN  
[54] **INTERFEROMETER FILTERS WITH PARTIAL COMPENSATION STRUCTURE**  
[54] **FILTRES D'INTERFEROMETRE A STRUCTURE DE COMPENSATION PARTIELLE**  
[72] RAVI, KOUSTUBAN, US  
[71] PSIQUANTUM, CORP., US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/051212)  
[87] (WO2023/101946)  
[30] US (17/538,926) 2021-11-30

[21] **3,239,458**  
[13] A1

[51] **Int.Cl. A47G 27/02 (2006.01) B32B 37/24 (2006.01) B32B 5/26 (2006.01) D05C 17/02 (2006.01)**  
[25] EN  
[54] **CARPET COMPONENTS CONTAINING INDIVIDUALLY DISPERSED FIBERS AND METHODS OF MAKING THE SAME**  
[54] **COMPOSANTS DE TAPIS CONTENANT DES FIBRES DISPERSEES INDIVIDUELLEMENT ET LEURS PROCEDES DE FABRICATION**  
[72] MORRIS, HARLAN, US  
[72] MORENO, ERIKA, US  
[72] CARRILLO, CARLOS, US  
[71] ALADDIN MANUFACTURING CORPORATION, US  
[85] 2024-05-28  
[86] 2022-12-09 (PCT/IB2022/061964)  
[87] (WO2023/119042)  
[30] US (63/265,964) 2021-12-23

[21] **3,239,459**  
[13] A1

[51] **Int.Cl. C09D 4/02 (2006.01) C09D 5/00 (2006.01) C09J 4/02 (2006.01) C09J 11/06 (2006.01) C09J 175/16 (2006.01)**  
[25] EN  
[54] **ANAEROBIC CURING ADHESIVE COMPOSITION, BONDED LAMINATED BODY, MOTOR, AND PRIMER COMPOSITION FOR ANAEROBIC CURING**  
[54] **COMPOSITION ADHESIVE DE DURCISSEMENT ANAEROBIE, STRATIFIEE, MOTEUR ET COMPOSITION D'APPRET POUR DURCISSEMENT ANAEROBIE**  
[72] IWASE, YOSHIKI, JP  
[72] ARAI, MIKAKO, JP  
[72] NIWA, MAKOTO, JP  
[72] TAKEDA, KAZUTOSHI, JP  
[72] FUKUCHI, MINAKO, JP  
[72] NATORI, YOSHIKI, JP  
[71] TOAGOSEI CO., LTD., JP  
[71] NIPPON STEEL CORPORATION, JP  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/JP2022/044072)  
[87] (WO2023/100906)  
[30] JP (2021-194893) 2021-11-30

[21] **3,239,460**  
[13] A1

[51] **Int.Cl. A61K 35/39 (2015.01)**  
[25] EN  
[54] **METHOD OF GENERATING FUNCTIONAL ISLETS FROM PLURIPOTENT STEM CELLS**  
[54] **PROCEDE DE GENERATION D'ILOTS FONCTIONNELS A PARTIR DE CELLULES SOUCHES PLURIPOTENTES**  
[72] DENG, HONGKUI, CN  
[72] DU, YUANYUAN, CN  
[72] LIANG, ZHEN, CN  
[72] WANG, XIAOFENG, CN  
[71] HANGZHOU REPROGENIX BIOSCIENCE, INC., CN  
[85] 2024-05-28  
[86] 2021-11-30 (PCT/CN2021/134632)  
[87] (WO2023/097513)

[21] **3,239,461**  
[13] A1

[51] **Int.Cl. A61P 31/14 (2006.01)**  
[25] EN  
[54] **HUMAN METAPNEUMOVIRUS VIRAL VECTOR-BASED VACCINES**  
[54] **VACCINS A BASE DE VECTEURS VIRAUX CONTRE LE METAPNEUMOVIRUS HUMAIN**  
[72] CHAN, YVONNE, US  
[72] SASMAL, SUKANYA, US  
[72] STUEBLER, ANTONIA, US  
[72] KISHKO, MICHAEL, US  
[72] MUNDLE, SOPHIA, US  
[72] ZHANG, LINONG, US  
[72] DINAPOLI, JOSH, US  
[72] ALAMARES-SAPUAY, JUDITH, US  
[72] ANOSOVA, NATALIE, US  
[72] CHIVUKULA, SUDHA, US  
[72] DANZ, HILLARY, US  
[72] STRUGNELL, TOD, US  
[72] GROppo, RACHEL, US  
[72] COLLINS, PETER, US  
[72] BUCHHOLZ, URSULA, US  
[72] MUNIR, SHIRIN, US  
[72] DAHAL, BIBHA, US  
[71] SANOFI PASTEUR INC., US  
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES, US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/080588)  
[87] (WO2023/102388)  
[30] US (63/284,407) 2021-11-30

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[21] **3,239,462**  
[13] A1

[51] **Int.Cl. E21B 17/042 (2006.01) E21B 19/16 (2006.01)**  
[25] EN  
[54] **CONTROL SYSTEM, ROCK DRILLING RIG, AND METHOD FOR CONTROLLING COUPLING MEASURES**  
[54] **SYSTEME DE COMMANDE, APPAREIL DE FORAGE DE ROCHE ET PROCEDE DE COMMANDE DE MESURES D'ACCOUPLLEMENT**  
[72] KOIVUMAKI, PERTTU, FI  
[72] UOTILA, JARKKO, FI  
[72] VISKARI, EERO, FI  
[72] TOPPINEN, VISA, FI  
[71] SANDVIK MINING AND CONSTRUCTION OY, FI  
[85] 2024-05-28  
[86] 2022-12-09 (PCT/EP2022/085216)  
[87] (WO2023/117501)  
[30] EP (21217318.1) 2021-12-23

[21] **3,239,463**  
[13] A1

[51] **Int.Cl. E21B 10/30 (2006.01) E21B 17/10 (2006.01) E21B 37/02 (2006.01)**  
[25] EN  
[54] **MULTI-FUNCTIONAL WELLBORE CONDITIONING SYSTEM**  
[54] **SYSTEME DE CONDITIONNEMENT DE PUITES DE FORAGE MULTIFONCTIONNEL**  
[72] FITZGERALD, TONY, NL  
[72] NEWMAN, MICHAEL THOMAS, NL  
[71] EUROPEAN DRILLING PROJECTS B.V., NL  
[85] 2024-05-28  
[86] 2022-11-25 (PCT/EP2022/083245)  
[87] (WO2023/104540)  
[30] EP (21212615.5) 2021-12-06

[21] **3,239,465**  
[13] A1

[25] EN  
[54] **SYSTEM AND PROCESS FOR CLOSED-LOOP DEEP BRAIN STIMULATION**  
[54] **SYSTEME ET PROCEDE DE STIMULATION CEREBRALE PROFONDE EN BOUCLE FERMEE**  
[72] BAKER, KENNETH B., US  
[72] CAMPBELL, BRETT A., US  
[72] MACHADO, ANDRE G., US  
[71] THE CLEVELAND CLINIC FOUNDATION, US  
[85] 2024-05-28  
[86] 2023-01-12 (PCT/US2023/060521)  
[87] (WO2023/137354)  
[30] US (63/298,896) 2022-01-12

[21] **3,239,466**  
[13] A1

[51] **Int.Cl. C09J 4/02 (2006.01) C09J 11/06 (2006.01)**  
[25] EN  
[54] **ANAEROBIC CURING ADHESIVE COMPOSITION, BONDED LAMINATED BODY, AND MOTOR**  
[54] **COMPOSITION ADHESIVE DE TYPE A DURCISSEMENT ANAEROBIE, STRATIFIEE LIE ET MOTEUR**  
[72] IWASE, YOSHIKI, JP  
[72] ARAI, MIKAKO, JP  
[72] TAKEDA, KAZUTOSHI, JP  
[72] FUKUCHI, MINAKO, JP  
[71] TOAGOSEI CO., LTD., JP  
[71] NIPPON STEEL CORPORATION, JP  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/JP2022/044073)  
[87] (WO2023/100907)  
[30] JP (2021-194894) 2021-11-30

[21] **3,239,467**  
[13] A1

[51] **Int.Cl. A61B 90/30 (2016.01)**  
[25] EN  
[54] **SURGICAL LIGHTING SYSTEM CO-ILLUMINATION DETECTION**  
[54] **DETECTION DE CO-ECLAIRAGE DE SYSTEME D'ECLAIRAGE CHIRURGICAL**  
[72] HOLLOPETER, MICHAEL, US  
[72] YODER, BENJAMIN L., US  
[71] AMERICAN STERILIZER COMPANY, US  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/US2022/051369)  
[87] (WO2023/107306)  
[30] US (17/543,129) 2021-12-06

[21] **3,239,470**  
[13] A1

[51] **Int.Cl. C01C 1/04 (2006.01) C01B 21/20 (2006.01)**  
[25] EN  
[54] **SYSTEMS AND METHODS FOR NITROGEN FIXATION**  
[54] **SYSTEMES ET PROCEDES DE FIXATION D'AZOTE**  
[72] SOANE, DAVID S., US  
[71] SOANE TECHNOLOGIES, LLC, US  
[85] 2024-05-28  
[86] 2022-12-13 (PCT/US2022/052664)  
[87] (WO2023/114185)  
[30] US (63/288,886) 2021-12-13  
[30] US (63/347,664) 2022-06-01

[21] **3,239,471**  
[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) C25B 15/023 (2021.01) C25B 15/08 (2006.01)**  
[25] EN  
[54] **AN ALKALINE ELECTROLYZER ARRANGEMENT**  
[54] **AGENCEMENT D'ELECTROLYSEUR ALCALIN**  
[72] THORBURN, STEFAN, SE  
[72] LEAL-AYALA, ANDRES, CH  
[72] BISKOPING, MATTHIAS, DE  
[72] CHARTOUNI, DANIEL, CH  
[72] PRIMAS, BERNHARD, DE  
[72] KOENIG, KAI, DE  
[72] GUTERMUTH, GEORG, DE  
[71] ABB SCHWEIZ AG, CH  
[85] 2024-05-28  
[86] 2022-12-07 (PCT/EP2022/084720)  
[87] (WO2023/110564)  
[30] EP (21214975.1) 2021-12-16

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[21] **3,239,473**  
[13] A1

[51] **Int.Cl. C01G 53/00 (2006.01) H01M 4/505 (2010.01) H01M 4/525 (2010.01) H01M 10/052 (2010.01) H01M 4/02 (2006.01) H01M 4/36 (2006.01) H01M 4/62 (2006.01)**

[25] EN

[54] **POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND METHOD FOR PREPARING THE SAME**

[54] **MATERIAU ACTIF DE CATHODE POUR BATTERIE SECONDAIRE AU LITHIUM ET SON PROCEDE DE FABRICATION**

[72] EOM, JUN HO, KR  
[72] HAN, SONG YI, KR  
[72] LIM, CHAE JIN, KR  
[72] KIM, JI HYE, KR  
[72] LEE, JUN WON, KR  
[72] KWAK, NO WOO, KR  
[71] LG CHEM, LTD., KR  
[85] 2024-05-28  
[86] 2022-12-22 (PCT/KR2022/021114)  
[87] (WO2023/121365)  
[30] KR (10-2021-0185900) 2021-12-23

[21] **3,239,474**  
[13] A1

[51] **Int.Cl. C07K 14/605 (2006.01) A61K 47/18 (2017.01) A61P 3/04 (2006.01) A61P 3/10 (2006.01)**

[25] EN

[54] **PHARMACEUTICAL COMPOSITION OF GLP-1 AND GIP RECEPTOR DUAL AGONIST AND USE THEREOF**

[54] **COMPOSITION PHARMACEUTIQUE D'AGONISTE DOUBLE DES RECEPTEURS DU GLP-1 ET DU GIP ET SON UTILISATION**

[72] HE, HUA, CN  
[72] CHEN, HAO, CN  
[72] ZHANG, FEIRAN, CN  
[72] XU, JIAJIA, CN  
[72] ZHANG, QIANG, CN  
[72] CAO, XIAOLI, CN  
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN  
[85] 2024-05-28  
[86] 2022-12-01 (PCT/CN2022/135769)  
[87] (WO2023/098777)  
[30] CN (202111454626.6) 2021-12-01

[21] **3,239,475**  
[13] A1

[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/32 (2012.01) G06Q 20/34 (2012.01) G06Q 20/36 (2012.01)**

[25] EN

[54] **KEY RECOVERY BASED ON CONTACTLESS CARD AUTHENTICATION**

[54] **RECUPERATION DE CLE BASEE SUR AUTHENTIFICATION DE CARTE SANS CONTACT**

[72] OSBORN, KEVIN, US  
[72] PRASAD, JAIKISHAN, US  
[72] CATALA CASTELLAR, JOSE, US  
[71] CAPITAL ONE SERVICES, LLC, US  
[85] 2024-05-28  
[86] 2022-11-23 (PCT/US2022/050885)  
[87] (WO2023/113986)  
[30] US (17/551,670) 2021-12-15

[21] **3,239,478**  
[13] A1

[51] **Int.Cl. G06Q 10/08 (2023.01) G06V 20/00 (2022.01) G01S 1/70 (2006.01) G01S 5/16 (2006.01)**

[25] EN

[54] **ASSET LOCATION METHOD**

[54] **PROCEDE DE LOCALISATION D'ACTIFS**

[72] GRADASSI, LUCA, CH  
[72] CONUS, JOEL, CH  
[72] PRISI, MARCEL, CH  
[72] ANTOINE, SIDOT, CH  
[72] BAHROUN, AYMEN, CH  
[71] NAGRAVISION SARL, CH  
[85] 2024-05-28  
[86] 2022-11-04 (PCT/EP2022/080845)  
[87] (WO2023/104404)  
[30] EP (21213492.8) 2021-12-09

[21] **3,239,481**  
[13] A1

[51] **Int.Cl. H01F 27/02 (2006.01) H01F 27/12 (2006.01) H01F 27/40 (2006.01) H01H 33/55 (2006.01) H02B 7/06 (2006.01) H02H 7/04 (2006.01)**

[25] EN

[54] **A SUBSEA SUBSTATION SYSTEM**

[54] **SYSTEME DE SOUS-STATION SOUS-MARINE**

[72] FRETHEIM, HARALD, NO  
[72] MARTINSEN, OISTEIN, NO  
[72] INGEBRIGTSEN, STIAN, NO  
[72] MORITSUGU, VITOR, NO  
[71] ABB SCHWEIZ AG, CH  
[85] 2024-05-28  
[86] 2022-11-15 (PCT/EP2022/081975)  
[87] (WO2023/110262)  
[30] EP (21214086.7) 2021-12-13

[21] **3,239,482**  
[13] A1

[51] **Int.Cl. A61P 25/16 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **TREATMENT OF NEUROLOGICAL DISEASES USING MODULATORS OF UNC13A GENE TRANSCRIPTS**

[54] **TRAITEMENT DE MALADIES NEUROLOGIQUES A L'AIDE DE MODULATEURS DE TRANSCRITS DU GENE D'UNC13A**

[72] HINCKLEY, SANDRA, US  
[72] BROWN, DUNCAN, US  
[72] ELBAUM, DANIEL, US  
[72] KAMELGARN, MARISA ELIZABETH, US  
[71] QURALIS CORPORATION, US  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/US2022/051713)  
[87] (WO2023/102225)  
[30] US (63/285,786) 2021-12-03  
[30] US (63/350,206) 2022-06-08  
[30] US (63/398,987) 2022-08-18



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[21] **3,239,483**  
[13] A1

[51] **Int.Cl. H04N 21/262 (2011.01) H04N 21/239 (2011.01) H04N 21/24 (2011.01) H04N 21/266 (2011.01) H04N 21/437 (2011.01) H04N 21/61 (2011.01) H04L 47/70 (2022.01) H04L 67/60 (2022.01)**

[25] EN  
[54] **SYSTEMS AND METHODS FOR ADAPTIVE BANDWIDTH GRANT SCHEDULING**  
[54] **SYSTEMES ET PROCEDES DE PLANIFICATION D'OCTROI ADAPTATIF DE BANDE PASSANTE**

[72] MATHUR, TUSHAR, US  
[72] GOHMAN, GREGORY J., US  
[72] RANGANATHAN, PARASURAM, US  
[71] ARRIS ENTERPRISES LLC, US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/051276)  
[87] (WO2023/097121)  
[30] US (63/283,823) 2021-11-29

[21] **3,239,484**  
[13] A1

[51] **Int.Cl. B01J 20/34 (2006.01)**

[25] EN  
[54] **REGENERATABLE SYSTEM FOR CONTAMINANT REMOVAL**  
[54] **SYSTEME POUR ELIMINATION DE CONTAMINANTS POUVANT ETRE REGENERE**

[72] ADAMSON, GEORGE W., US  
[72] STEIN, DAVID, US  
[72] SCHNEIDER, CASSIDY RAE, US  
[72] KORN, VICTORIA L., US  
[72] WOODWARD, MELISSA, US  
[71] IONIC WATER TECHNOLOGIES, LLC, US  
[85] 2024-05-28  
[86] 2022-12-14 (PCT/US2022/081501)  
[87] (WO2023/114806)  
[30] US (63/290,231) 2021-12-16

[21] **3,239,485**  
[13] A1

[51] **Int.Cl. B01J 39/05 (2017.01) B01J 41/07 (2017.01) B01J 47/014 (2017.01) B01J 47/018 (2017.01) B01J 20/26 (2006.01) B01J 39/20 (2006.01) B01J 41/14 (2006.01)**

[25] EN  
[54] **A SORBENT GRANULATE FOR SEPARATION OF CARBON DIOXIDE FROM A FLUID MIXTURE, AND A METHOD OF PRODUCING THEREOF**  
[54] **GRANULE DE SORBANT POUR LA SEPARATION DE DIOXYDE DE CARBONE D'UN MELANGE FLUIDE, ET SON PROCEDE DE PRODUCTION**

[72] DE VOS, YORAN MICHEL MARC ARIELLE, BE  
[72] QUAGHEBEUR, MIEKE CORNELIA J., BE  
[72] ROMBOUTS, MARLEEN, BE  
[71] VITO NV, BE  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/EP2022/083846)  
[87] (WO2023/099562)  
[30] EP (21211413.6) 2021-11-30

[21] **3,239,486**  
[13] A1

[51] **Int.Cl. A47L 15/42 (2006.01)**

[25] EN  
[54] **WATER FLOW SYSTEM FOR WASHER, AND WASHER**  
[54] **SYSTEME D'ECOULEMENT D'EAU POUR MACHINE A LAVER ET MACHINE A LAVER**

[72] ZHENG, FENG, CN  
[72] SHI, ZHENGZAN, CN  
[72] HAN, JIANJIAN, CN  
[72] DIAO, SHUO, CN  
[72] WEI, BENZHU, CN  
[72] YAO, YONGLEI, CN  
[71] NINGBO FOTILE KITCHEN WARE CO., LTD, CN  
[85] 2024-05-28  
[86] 2023-09-28 (PCT/CN2023/122634)  
[87] (WO2024/067814)  
[30] CN (202211216094.7) 2022-09-30

[21] **3,239,487**  
[13] A1

[51] **Int.Cl. C07H 15/04 (2006.01) C07H 1/00 (2006.01)**

[25] EN  
[54] **A METHOD FOR PRODUCING ANIONIC SACCHARIDES**  
[54] **PROCEDE POUR LA PRODUCTION DE SACCHARIDES ANIONIQUES**

[72] METSALA, ERKKI JOHANNES, FI  
[71] KEMIRA OYJ, FI  
[85] 2024-05-28  
[86] 2022-11-24 (PCT/FI2022/050785)  
[87] (WO2023/099813)  
[30] FI (20216240) 2021-12-02

[21] **3,239,488**  
[13] A1

[51] **Int.Cl. G16B 40/20 (2019.01) G16H 50/20 (2018.01) G16B 25/10 (2019.01)**

[25] EN  
[54] **DIAGNOSIS OF PANCREATIC CANCER USING TARGETED QUANTIFICATION OF SITE-SPECIFIC PROTEIN GLYCOSYLATION**  
[54] **DIAGNOSTIC DU CANCER DU PANCREAS A L'AIDE D'UNE QUANTIFICATION CIBLEE D'UNE GLYCOSYLATION DE PROTEINE SPECIFIQUE A UN SITE**

[72] SERIE, DANIEL, US  
[72] PICKERING, CHAD EAGLE, US  
[72] XU, GEGE, US  
[71] CIPO, CA  
[71] VENN BIOSCIENCES CORPORATION, US  
[85] 2024-05-28  
[86] 2022-11-30 (PCT/US2022/080692)  
[87] (WO2023/102443)  
[30] US (63/284,594) 2021-11-30

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[21] **3,239,489**  
[13] A1

[51] **Int.Cl. C22B 3/28 (2006.01) C22B 11/06 (2006.01)**  
[25] EN  
[54] **METHOD FOR SEPARATING RHODIUM**  
[54] **PROCEDE DE SEPARATION DE RHODIUM**  
[72] STEMMLER, MARCO, DE  
[72] SAUER, ANDRE, DE  
[71] HERAEUS PRECIOUS METALS GMBH & CO. KG, DE  
[85] 2024-05-28  
[86] 2022-10-20 (PCT/EP2022/079164)  
[87] (WO2023/099076)  
[30] EP (21211870.7) 2021-12-02

[21] **3,239,490**  
[13] A1

[51] **Int.Cl. G01N 17/00 (2006.01)**  
[25] EN  
[54] **BURIED PIPING PROBABILITY-OF-WATER-LEAKAGE-ACCIDENTS PREDICTION APPARATUS, BURIED PIPING PROBABILITY-OF-WATER-LEAKAGE-ACCIDENTS PREDICTION METHOD, AND COMPUTER PROGRAM PRODUCT**  
[54] **DISPOSITIF DE PREDICTION DE TAUX D'INCIDENCE DE FUITE D'EAU DE CANALISATION ENFOUIE, PROCEDE DE PREDICTION DE TAUX D'INCIDENCE DE FUITE D'EAU DE CANALISATION ENFOUIE, ET PROGRAMME**  
[72] FUNAHASHI, GORO, JP  
[72] OKUMURA, YUTA, JP  
[72] KAWAKATSU, TOMO, JP  
[72] TAKIZAWA, SATOSHI, JP  
[71] KUBOTA CORPORATION, JP  
[85] 2024-05-28  
[86] 2022-11-21 (PCT/JP2022/042992)  
[87] (WO2023/100701)  
[30] JP (2021-195339) 2021-12-01

[21] **3,239,491**  
[13] A1

[51] **Int.Cl. B01J 20/08 (2006.01) B01J 20/32 (2006.01)**  
[25] EN  
[54] **TREATMENT OF CARBON FOR CONTAMINANT REMOVAL**  
[54] **TRAITEMENT DE CARBONE POUR L'ELIMINATION DE CONTAMINANTS**  
[72] ADAMSON, GEORGE W., US  
[72] STEIN, DAVID, US  
[72] SCHNEIDER, CASSIDY RAE, US  
[72] KORN, VICTORIA L., US  
[71] IONIC WATER TECHNOLOGIES, LLC, US  
[85] 2024-05-28  
[86] 2022-12-14 (PCT/US2022/081502)  
[87] (WO2023/114807)  
[30] US (63/290,074) 2021-12-16

[21] **3,239,492**  
[13] A1

[51] **Int.Cl. C08F 110/14 (2006.01) C08F 4/659 (2006.01) C08L 23/20 (2006.01) C09K 8/035 (2006.01) F17D 1/17 (2006.01)**  
[25] EN  
[54] **DRAG REDUCING AGENT**  
[54] **AGENT DE REDUCTION DE TRAINEE**  
[72] KOENIGS, DAVID, US  
[72] REYES, LARISA MAE Q., US  
[72] NYUTU, EDWARD K., US  
[72] DERMODY, DANIEL L., US  
[72] MALOTKY, DAVID L., US  
[72] KAMAT, PRITISH M., US  
[72] FRYCEK, GEORGE J., US  
[71] DOW GLOBAL TECHNOLOGIES LLC, US  
[85] 2024-05-28  
[86] 2022-11-21 (PCT/US2022/050522)  
[87] (WO2023/101841)  
[30] US (63/285,173) 2021-12-02

[21] **3,239,493**  
[13] A1

[51] **Int.Cl. B01F 25/64 (2022.01) B01F 31/00 (2022.01)**  
[25] EN  
[54] **ROTARY DEVICE FOR INPUTTING THERMAL ENERGY INTO FLUIDS**  
[54] **DISPOSITIF ROTATIF POUR INTRODUIRE DE L'ENERGIE THERMIQUE DANS DES FLUIDES**  
[72] XU, LIPING, GB  
[72] ROSIC, BUDIMIR, GB  
[71] COOLBROOK OY, FI  
[85] 2024-05-28  
[86] 2022-12-22 (PCT/FI2022/050868)  
[87] (WO2023/118668)  
[30] FI (20216338) 2021-12-23

[21] **3,239,494**  
[13] A1

[51] **Int.Cl. E06B 9/50 (2006.01) E06B 9/40 (2006.01)**  
[25] EN  
[54] **ROLLER BLIND FRICTION-CREATING ASSEMBLY AND ONE-WAY BEARING FOR THE SAME**  
[54] **ENSEMBLE DE CREATION DE FROTTEMENT DE STORE A ROULEAU ET PALIER UNIDIRECTIONNEL POUR CE DERNIER**  
[72] ARCHAMBAULT, AUGUSTIN, CA  
[71] 7912854 CANADA INC., CA  
[85] 2024-05-28  
[86] 2022-12-16 (PCT/CA2022/051849)  
[87] (WO2023/108298)  
[30] US (63/265,517) 2021-12-16

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[21] **3,239,495**  
[13] A1

[51] **Int.Cl. B01J 23/88 (2006.01) B01J 23/887 (2006.01)**

[25] EN

[54] **METHOD FOR CONVERTING ONE OR MORE HYDROCARBONS, AND A CATALYST USED THEREFOR**

[54] **PROCEDE DE CONVERSION D'UN OU PLUSIEURS HYDROCARBURES ET CATALYSEUR UTILISE A CET EFFET**

[72] GADEWAR, SAGAR, US  
[72] ZHOU, ZHENHUA, US  
[72] KELKAR, MADHURA, US  
[72] JULKA, VIVEK, US  
[72] DAVIS, CARLITTA, US  
[71] NEWCHEM21, INC., US  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/US2022/080598)  
[87] (WO2023/097338)  
[30] US (63/283,819) 2021-11-29

[21] **3,239,496**  
[13] A1

[51] **Int.Cl. H04N 21/2343 (2011.01) H04N 21/8547 (2011.01)**

[25] EN

[54] **TIMELINE BASED REPRESENTATION FOR HAPTIC SIGNAL**

[54] **REPRESENTATION BASEE SUR UNE CHRONOLOGIE POUR SIGNAL HAPTIQUE**

[72] GALVANE, QUENTIN, FR  
[72] DANIEAU, FABIEN, FR  
[72] GUILLOTTEL, PHILIPPE, FR  
[71] INTERDIGITAL CE PATENT HOLDINGS, SAS, FR  
[85] 2024-05-28  
[86] 2022-11-08 (PCT/EP2022/081123)  
[87] (WO2023/099133)  
[30] EP (21306693.9) 2021-12-02  
[30] EP (22305295.2) 2022-03-15

[21] **3,239,497**  
[13] A1

[51] **Int.Cl. D03D 1/00 (2006.01) H02G 1/08 (2006.01) H02G 3/04 (2006.01)**

[25] EN

[54] **BLOWABLE FLEXIBLE INNERDUCT**

[54] **CONDUIT INTERIEUR FLEXIBLE POUVANT ETRE SOUFFLE**

[72] BEDINGFIELD, STEVEN L., US  
[72] BROADWAY, ANDREW, US  
[71] MILLIKEN & COMPANY, US  
[85] 2024-05-28  
[86] 2022-11-15 (PCT/US2022/079872)  
[87] (WO2023/107805)  
[30] US (63/286,890) 2021-12-07  
[30] US (17/984,831) 2022-11-10  
[30] US (17/984,849) 2022-11-10

[21] **3,239,498**  
[13] A1

[51] **Int.Cl. C07K 14/47 (2006.01)**

[25] EN

[54] **SELF-ASSEMBLING VIRUS-LIKE PARTICLES FOR DELIVERY OF PRIME EDITORS AND METHODS OF MAKING AND USING SAME**

[54] **PARTICULES PSEUDOVIRALES AUTO-ASSEMBLEES POUR ADMINISTRATION D'EDITEURS PRINCIPAUX ET PROCEDES DE FABRICATION ET D'UTILISATION DE CES DERNIERES**

[72] LIU, DAVID R., US  
[72] RAGURAM, ADITYA, US  
[72] BANSKOTA, SAMAGYA, US  
[72] AN, MEIRUI, US  
[71] THE BROAD INSTITUTE, INC., US  
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US  
[85] 2024-05-28  
[86] 2022-12-02 (PCT/US2022/080836)  
[87] (WO2023/102538)  
[30] US (63/285,995) 2021-12-03  
[30] US (63/298,626) 2022-01-11  
[30] US (63/423,372) 2022-11-07

[21] **3,239,499**  
[13] A1

[51] **Int.Cl. A61K 35/28 (2015.01) A61K 38/17 (2006.01) A61P 11/00 (2006.01)**

[25] EN

[54] **COMPOSITION FOR PREVENTING OR TREATING LUNG DISEASES CONTAINING CD47-OVEREXPRESSING MESENCHYMAL STEM CELLS**

[54] **COMPOSITION POUR LA PREVENTION OU LE TRAITEMENT DES MALADIES PULMONAIRES CONTENANT DES CELLULES SOUCHES MESENCHYMATEUSES SUREXPRESSANT CD47**

[72] YANG, YUN SUN, KR  
[72] OH, WON IL, KR  
[72] CHOI, SOO JIN, KR  
[72] JIN, HYE JIN, KR  
[72] BAE, YUN KYUNG, KR  
[72] LEE, HYANG JU, KR  
[71] MEDIPOST CO., LTD., KR  
[85] 2024-05-28  
[86] 2022-09-21 (PCT/KR2022/014100)  
[87] (WO2023/101166)  
[30] KR (10-2021-0170214) 2021-12-01

[21] **3,239,500**  
[13] A1

[51] **Int.Cl. G02B 26/00 (2006.01) E04B 2/88 (2006.01) E06B 3/66 (2006.01)**

[25] EN

[54] **FLUIDIC DEVICE FOR REGULATING LIGHT TRANSMISSION THROUGH THE DEVICE**

[54] **DISPOSITIF FLUIDIQUE POUR REGULER LA TRANSMISSION DE LUMIERE A TRAVERS LE DISPOSITIF**

[72] HATTON, BENJAMIN, CA  
[72] KAY, RAPHAEL, CA  
[72] JAKUBIEC, JOHN ALSTAN, CA  
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA  
[85] 2024-05-28  
[86] 2022-11-29 (PCT/CA2022/051747)  
[87] (WO2023/092243)  
[30] US (63/283,691) 2021-11-29

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[21] **3,239,501**  
[13] A1

[51] **Int.Cl. A61K 38/20 (2006.01) A61K 47/60 (2017.01) A61P 1/00 (2006.01) A61P 3/10 (2006.01) A61P 11/06 (2006.01) A61P 17/06 (2006.01) A61P 37/02 (2006.01) A61P 37/06 (2006.01) A61P 37/08 (2006.01)**

[25] EN

[54] **DOSING REGIMENS FOR SELECTIVE TREG STIMULATOR RUR20KD-IL-2 AND RELATED COMPOSITIONS**

[54] **SCHEMAS POSOLOGIQUES POUR STIMULATEUR TREG SELECTIF, RUR20KD-IL-2, ET COMPOSITIONS ASSOCIEES**

[72] ASHRAFZADEH, ALI, US  
[72] DODD, STEVEN WITT, US  
[72] JACKSON, KIMBERLEY ANNE, US  
[72] KANESHIRO, STACEY MASAOKI, US

[72] KLEKOTKA, PAUL ALAN, US  
[72] KOTZIN, BRIAN LESLIE, US  
[72] SCHMITZ, CARSTEN, US  
[72] ZALEVSKY, JONATHAN, US  
[71] NEKTAR THERAPEUTICS, US  
[71] ELI LILLY AND COMPANY, US  
[85] 2024-05-28  
[86] 2022-12-14 (PCT/US2022/081541)  
[87] (WO2023/114833)  
[30] US (63/289,371) 2021-12-14  
[30] US (63/323,126) 2022-03-24  
[30] US (63/325,923) 2022-03-31  
[30] US (63/343,505) 2022-05-18  
[30] US (63/374,632) 2022-09-06

[21] **3,239,502**  
[13] A1

[51] **Int.Cl. H03J 7/04 (2006.01) H04L 27/00 (2006.01) H04L 27/06 (2006.01) H04L 27/14 (2006.01) H04L 27/152 (2006.01)**

[25] EN

[54] **MOBILE TERMINAL AND METHODS OF USE**

[54] **TERMINAL MOBILE ET PROCEDES D'UTILISATION**

[72] ATASHBAHAR, SATTAR, US  
[72] GAMBOA, RAYMOND, US  
[72] JODAT, MANI, US  
[72] WIDMER, JUERG, US  
[72] WHITMARSH, BILL, US  
[71] HUGHES NETWORK SYSTEMS, LLC, US  
[85] 2024-05-28  
[86] 2022-12-19 (PCT/US2022/053390)  
[87] (WO2023/122030)  
[30] US (17/555,940) 2021-12-20

[21] **3,239,503**  
[13] A1

[51] **Int.Cl. C12N 5/0783 (2010.01) C12N 5/10 (2006.01) C12N 15/86 (2006.01)**

[25] EN

[54] **RAPID T-CELL MANUFACTURING**

[54] **PRODUCTION RAPIDE DE LYMPHOCYTES T**

[72] WALD, DAVID, US  
[71] KURE. AI, INC., US  
[85] 2024-05-28  
[86] 2022-12-22 (PCT/US2022/053815)  
[87] (WO2023/122277)  
[30] US (63/292,843) 2021-12-22

[21] **3,239,504**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 31/12 (2006.01) A61P 31/14 (2006.01)**

[25] EN

[54] **RECOMBINANT PROTEIN FOR SARS-COV2 DISEASE**

[54] **PROTEINE RECOMBINANTE POUR UNE MALADIE CAUSEE PAR LE SARS-COV-2**

[72] SATHE, DHANANJAY, IN  
[72] IYAPPAN, SARAVANAKUMAR, IN  
[71] UNICHEM LABORATORIES LIMITED, IN  
[85] 2024-05-28  
[86] 2022-12-14 (PCT/IB2022/062211)  
[87] (WO2023/111892)  
[30] IN (202121058651) 2021-12-16

[21] **3,239,505**  
[13] A1

[51] **Int.Cl. A24F 40/49 (2020.01) A24F 40/50 (2020.01)**

[25] EN

[54] **CONTROL METHOD FOR ELECTRONIC CIGARETTE HAVING CHILD-LOCK FUNCTION**

[54] **PROCEDE DE COMMANDE POUR CIGARETTE ELECTRONIQUE AYANT UNE FONCTION DE VERROU ENFANT**

[72] LIN, GUANGRONG, CN  
[72] ZHENG, XIANBIN, CN  
[71] HUIZHOU HAPPY VAPING TECHNOLOGY LIMITED, CN  
[85] 2024-05-28  
[86] 2023-07-18 (PCT/CN2023/107966)  
[87] (WO2024/051352)  
[30] CN (202211079625.2) 2022-09-05

[21] **3,239,506**  
[13] A1

[51] **Int.Cl. B25B 21/00 (2006.01)**

[25] EN

[54] **PROTECTIVE CAP**

[54] **CAPUCHON DE PROTECTION**

[72] NIIMI, KATSUMI, JP  
[72] OHTSUBO, MASATO, JP  
[72] UESHIMA, MASATO, JP  
[71] YOSHINO GYPSUM CO., LTD., JP  
[85] 2024-05-28  
[86] 2023-02-22 (PCT/JP2023/006562)  
[87] (WO2023/167085)  
[30] JP (2022-033933) 2022-03-04

[21] **3,239,507**  
[13] A1

[51] **Int.Cl. B25B 21/00 (2006.01)**

[25] EN

[54] **PROTECTIVE CAP**

[54] **CAPUCHON PROTECTEUR**

[72] NIIMI, KATSUMI, JP  
[72] OHTSUBO, MASATO, JP  
[72] UESHIMA, MASATO, JP  
[71] YOSHINO GYPSUM CO., LTD., JP  
[85] 2024-05-28  
[86] 2023-02-22 (PCT/JP2023/006561)  
[87] (WO2023/167084)  
[30] JP (2022-033932) 2022-03-04

[21] **3,239,514**  
[13] A1

[51] **Int.Cl. A61K 31/136 (2006.01) A61K 31/343 (2006.01) A61P 25/28 (2006.01) C07D 307/78 (2006.01) C07D 307/80 (2006.01) C07D 317/58 (2006.01)**

[25] EN

[54] **SPECIALIZED COMBINATIONS FOR MENTAL DISORDERS OR MENTAL ENHANCEMENT**

[54] **COMBINAISONS SPECIALISEES POUR TRAITER DES TROUBLES MENTAUX OU AMELIORER L'ETAT MENTAL**

[72] BAGGOTT, MATTHEW J., US  
[72] DALZIEL, SEAN, US  
[71] TACTOGEN INC, US  
[85] 2024-05-29  
[86] 2022-12-09 (PCT/US2022/052441)  
[87] (WO2023/107715)  
[30] US (63/287,876) 2021-12-09

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[21] **3,239,515**  
[13] A1

[51] **Int.Cl. A61M 25/00 (2006.01) A61M 27/00 (2006.01)**  
[25] EN  
[54] **MEDICAL DEVICE ASSEMBLY**  
[54] **ENSEMBLE MEDICAL**  
[72] MCNULTY, VIVIENNE, US  
[72] MURRAY, MICHAEL G, US  
[72] O'MALLEY, SHANE, US  
[72] FOLEY, ADAM J., US  
[71] HOLLISTER INCORPORATED, US  
[85] 2024-05-29  
[86] 2022-11-21 (PCT/US2022/050608)  
[87] (WO2023/101854)  
[30] US (63/284,271) 2021-11-30

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[21] **3,239,518**  
[13] A1

[51] **Int.Cl. A61K 31/343 (2006.01) C07D 307/78 (2006.01) C07D 307/79 (2006.01)**  
[25] EN  
[54] **BENZOFURAN SALT MORPHIC FORMS AND MIXTURES FOR THE TREATMENT OF MENTAL DISORDERS OR MENTAL ENHANCEMENT**  
[54] **FORMES POLYMORPHES DE SELS DE BENZOFURANE ET MELANGES POUR LE TRAITEMENT DE TROUBLES MENTAUX OU POUR L'AMELIORATION MENTALE**  
[72] BAGGOTT, MATTHEW J., US  
[72] LOFTHUS, SEAN JEFFREY, US  
[72] DE LEON, XANTHE MARIE RENOMERON, US  
[72] SINGH, ANIRUDDH, US  
[72] HUDGINS, CONNOR JAMES, US  
[71] TACTOGEN INC, US  
[85] 2024-05-29  
[86] 2022-12-08 (PCT/US2022/052325)  
[87] (WO2023/107653)  
[30] US (63/287,443) 2021-12-08  
[30] US (63/287,943) 2021-12-09

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[21] **3,239,520**  
[13] A1

[51] **Int.Cl. A61K 8/22 (2006.01) A61K 8/25 (2006.01)**  
[25] EN  
[54] **METHODS OF FORMING DRY-TO-THE-TOUCH PEROXIDE COMPOSITIONS**  
[54] **PROCEDES DE FORMATION DE COMPOSITIONS DE PEROXYDE SEC AU TOUCHER**  
[72] BECKER, CHRISTIAN G., US  
[72] MILLER, JAY F., US  
[72] RICHARDSON, JOHN M., US  
[71] ARKEMA INC., US  
[85] 2024-05-29  
[86] 2022-11-11 (PCT/US2022/049649)  
[87] (WO2023/121786)  
[30] US (63/292,624) 2021-12-22

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[21] **3,239,523**  
[13] A1

[51] **Int.Cl. A45D 29/00 (2006.01) A45D 40/00 (2006.01) A61Q 3/02 (2006.01)**  
[25] EN  
[54] **TWO-PART NAIL POLISH CAPSULE**  
[54] **CAPSULE POUR VERNIS A ONGLES EN DEUX PARTIES**  
[72] MORAN, OMRI, US  
[72] MOR YOSEF, AVICHAY, IL  
[72] MILLER, RON, IL  
[71] NAILOMATIC LTD., IL  
[85] 2024-05-29  
[86] 2022-11-28 (PCT/IL2022/051262)  
[87] (WO2023/100174)  
[30] US (63/286,050) 2021-12-05

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[21] **3,239,530**  
[13] A1

[51] **Int.Cl. G01N 15/02 (2024.01)**  
[25] EN  
[54] **PROCESS AND DEVICE FOR DETERMINING THE EQUIVALENT DIAMETER OF POWDER PARTICLES**  
[54] **PROCEDE ET APPAREIL DE DETERMINATION DU DIAMETRE EQUIVALENT DE PARTICULES DE POUFRE**  
[72] SAEUBERLICH, TINO, DE  
[72] ZEUGNER, ALEXANDER, DE  
[72] MEESE-MARKTSCHIEFFEL, JULIANE, DE  
[71] H. C. STARCK TUNGSTEN GMBH, DE  
[85] 2024-05-29  
[86] 2022-12-07 (PCT/EP2022/084834)  
[87] (WO2023/110587)  
[30] EP (21214613.8) 2021-12-15

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[21] **3,239,532**  
[13] A1

[51] **Int.Cl. E04B 9/04 (2006.01)**  
[25] EN  
[54] **AN ACOUSTICAL TILE MEMBER**  
[54] **ELEMENT DE TUILE ACOUSTIQUE**  
[72] PERSSON, TORBJORN, SE  
[71] SAINT-GOBAIN ECOPHON AB, SE  
[85] 2024-05-29  
[86] 2022-11-25 (PCT/EP2022/083318)  
[87] (WO2023/117300)  
[30] EP (21216558.3) 2021-12-21

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[21] **3,239,533**  
[13] A1

[51] **Int.Cl. A01K 61/10 (2017.01) A01K 61/60 (2017.01)**

[25] EN

[54] **A PRESSURE BALANCED SUBMERSIBLE FISH FARM, AN ADJUSTABLE PRESSURE LOSS WATER RESISTANCE UNIT AND A METHOD FOR MAINTAINING A PRESSURE IN SUCH A FARM**

[54] **FERME PISCICOLE SUBMERSIBLE A PRESSION EQUILIBREE, UNITE DE RESISTANCE A L'EAU A PERTE DE PRESSION REGLABLE ET PROCEDE DE MAINTIEN D'UNE PRESSION DANS UNE TELLE FERME**

[72] EIDE, ERLEND, NO  
[72] EIDE, SONDRÉ, NO  
[71] WATERMOON AS, NO  
[85] 2024-05-29  
[86] 2022-12-09 (PCT/NO2022/050303)  
[87] (WO2023/106932)  
[30] NO (20211497) 2021-12-10  
[30] NO (20220941) 2022-09-01

[21] **3,239,534**  
[13] A1

[51] **Int.Cl. A01K 61/60 (2017.01) A01K 63/04 (2006.01)**

[25] EN

[54] **A SUBMERSIBLE FISH FARM WITH A FISH REARING TANK ADAPTED TO SEPARATE SLUDGE FROM WATER AND A METHOD OF OPERATING SUCH A FARM**

[54] **FERME PISCICOLE SUBMERSIBLE DOTÉE D'UNE CUVE D'ELEVAGE DE POISSONS CONCUE POUR SEPARER LA BOUE DE L'EAU ET PROCEDE DE FONCTIONNEMENT D'UNE TELLE FERME**

[72] EIDE, ERLEND, NO  
[72] EIDE, SONDRÉ, NO  
[71] WATERMOON AS, NO  
[85] 2024-05-29  
[86] 2022-12-09 (PCT/NO2022/050302)  
[87] (WO2023/106931)  
[30] NO (20211497) 2021-12-10  
[30] NO (20220935) 2022-08-30

[21] **3,239,535**  
[13] A1

[51] **Int.Cl. H04W 28/14 (2009.01) H04L 67/568 (2022.01) H04W 52/02 (2009.01) H04W 76/28 (2018.01)**

[25] EN

[54] **COMMUNICATION METHOD AND COMMUNICATION APPARATUS**

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

[72] PAN, QI, CN  
[72] HUANG, ZHENGLI, CN  
[71] HUAWAI TECHNOLOGIES CO., LTD., CN  
[85] 2024-05-29  
[86] 2022-11-28 (PCT/CN2022/134593)  
[87] (WO2023/098605)  
[30] CN (202111446506.1) 2021-11-30

[21] **3,239,538**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01)**

[25] EN

[54] **PARTICLE COMPRISING A VIRUS**

[54] **PARTICULE COMPRENANT UN VIRUS**

[72] SARTBAEVA, ASEL, GB  
[72] DOEKHIE, ASWIN, GB  
[72] SLADE, MATTHEW, GB  
[72] WELLS, STEPHEN, GB  
[71] UNIVERSITY OF BATH, GB  
[85] 2024-05-29  
[86] 2023-01-24 (PCT/EP2023/051699)  
[87] (WO2023/144152)  
[30] GB (2201188.6) 2022-01-31

[21] **3,239,542**  
[13] A1

[51] **Int.Cl. A61B 5/00 (2006.01) G16H 50/20 (2018.01)**

[25] EN

[54] **SMART MACHINES AND MACHINE LEARNING FOR HEMODYNAMIC SUPPORT DEVICES**

[54] **MACHINES INTELLIGENTES ET APPRENTISSAGE AUTOMATIQUE POUR DISPOSITIFS DE SOUTIEN HEMODYNAMIQUE**

[72] MOYER, CHRISTIAN, US  
[72] JORTBERG, ELISE, US  
[72] BARDOT, DAWN, US  
[72] BHALA, GOVIND, US  
[72] MAIER, MAXIMILIAN, US  
[72] CHASE, ERIC, US  
[72] GRIESSHAMMER, CHRISTOPH, US  
[71] ABIOMED, INC., US  
[85] 2024-05-29  
[86] 2022-12-02 (PCT/US2022/051614)  
[87] (WO2023/102161)  
[30] US (63/285,302) 2021-12-02

[21] **3,239,544**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01)**

[25] EN

[54] **RABEXIMOD COMPOUNDS**

[54] **COMPOSES DE RABEXIMOD**

[72] DALBY BROWN, WILLIAM, DK  
[72] VAN PINXTEREN, LAURENS ADRIANUS HENDRICUS, NL  
[72] STEENDAM, RIENK ELIBERT, NL  
[72] KNIBBE, JONATHAN, NL  
[72] BERTHOLD, MALIN INGRID, SE  
[71] CYXONE AB, SE  
[85] 2024-05-29  
[86] 2022-12-08 (PCT/EP2022/085060)  
[87] (WO2023/104998)  
[30] EP (21213418.3) 2021-12-09

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[21] **3,239,546**  
[13] A1

[51] **Int.Cl. H02J 3/40 (2006.01) H02J 3/38 (2006.01) H02J 7/34 (2006.01)**

[25] EN

[54] **FIXED DC BUS POWER ELECTRONIC SYSTEMS AND METHODS**

[54] **SYSTEMES ET PROCEDES ELECTRONIQUES DE PUISSANCE A BUS CC FIXE**

[72] LIU, YANG, US

[72] AU, ALEXANDER W., US

[72] LELE, SANDEEP SANJIVA, US

[71] NEXTRACKER LLC, US

[85] 2024-05-29

[86] 2022-12-02 (PCT/US2022/051668)

[87] (WO2023/102192)

[30] US (63/285,486) 2021-12-03

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[21] **3,239,547**  
[13] A1

[51] **Int.Cl. C07K 14/705 (2006.01) C07K 14/415 (2006.01) C07K 19/00 (2006.01) C12N 1/19 (2006.01) C12N 15/09 (2006.01) C12N 15/62 (2006.01)**

[25] EN

[54] **METHODS AND COMPOSITIONS RELATED TO ENGINEERED CANNABINOID RECEPTORS**

[54] **PROCEDES ET COMPOSITIONS ASSOCIES A DES RECEPTEURS CANNABINOIDES MODIFIES**

[72] ELLINGTON, ANDREW, US

[72] GARDNER, ELIZABETH, US

[72] GOLLIHAR, JIMMY, US

[72] LUTGENS, JOSHUA, US

[72] MARCOTTE, EDWARD, US

[72] MULVIHILL, COLLEEN, US

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

[85] 2024-05-29

[86] 2022-12-02 (PCT/US2022/080840)

[87] (WO2023/102541)

[30] US (63/285,337) 2021-12-02

[30] US (63/396,020) 2022-08-08

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[21] **3,239,548**  
[13] A1

[51] **Int.Cl. C11D 1/12 (2006.01) C07D 307/02 (2006.01) C07D 307/64 (2006.01) C07D 307/34 (2006.01)**

[25] EN

[54] **TUNING SULFONATION AND CONTROLLING OLEO-FURAN SURFACTANT COMPOSITIONS**

[54] **ADAPTATION DE LA SULFONATION ET REGULATION DE COMPOSITIONS TENSIOACTIVES A BASE D'OLEO-FURANES**

[72] EADY, SHAWN, US

[72] ROBISON, TYLER, US

[72] CRUZ, MICHELLE, US

[72] WILKE, TRENTON, US

[72] CONRAD, SABRINA, US

[72] ANSARI, MARYAM, US

[72] KRUMM, CHRISTOPH, US

[71] SIRONIX RENEWABLES, INC., US

[85] 2024-05-29

[86] 2022-12-01 (PCT/US2022/080722)

[87] (WO2023/107851)

[30] US (63/288,256) 2021-12-10

[30] US (63/388,872) 2022-07-13

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[21] **3,239,550**  
[13] A1

[51] **Int.Cl. A61K 38/17 (2006.01) A61P 23/00 (2006.01) A61P 25/00 (2006.01) A61P 25/04 (2006.01)**

[25] EN

[54] **TREATMENT OF NOCICEPTIVE PAIN**

[54] **TRAITEMENT DE LA DOULEUR NOCICEPTIVE**

[72] PETERSEN, KENNETH, DK

[72] MUNRO, GORDON, DK

[72] MELDGAARD MADSEN, TORSTEN, DK

[71] HOBA THERAPEUTICS APS, DK

[85] 2024-05-29

[86] 2022-12-08 (PCT/EP2022/084971)

[87] (WO2023/104960)

[30] EP (21213798.8) 2021-12-10

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[21] **3,239,551**  
[13] A1

[51] **Int.Cl. A61K 51/08 (2006.01)**

[25] EN

[54] **UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR (UPAR)-PET/CT IN HEAD AND NECK SQUAMOUS CELL CARCINOMAS (HNSCCS)**

[54] **PET/CT DU RECEPTEUR DE L'ACTIVATEUR DU PLASMINOGENE DE TYPE UROKINASE (UPAR) DANS DES CARCINOMES A CELLULES SQUAMEUSES DE LA TETE ET DU COU (HNSCC)**

[72] KJAER, ANDREAS, DK

[71] CURASIGHT APS, DK

[85] 2024-05-29

[86] 2022-11-29 (PCT/EP2022/083665)

[87] (WO2023/099472)

[30] EP (21211370.8) 2021-11-30

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[21] **3,239,553**  
[13] A1

[51] **Int.Cl. C07K 16/30 (2006.01) A61P 35/04 (2006.01)**

[25] EN

[54] **HUMAN MESOTHELIN BINDERS LIANTS DE MESOTHELINE HUMAINE**

[72] FRIDMAN, ARTHUR, US

[72] HANDA, MASAHISA, US

[72] HSIEH, CHUNG-MING, US

[72] SINGH, SUJATA, US

[72] TABRIZIFARD, SAHBA, US

[72] VANEGAS, SANDRA ISABEL, US

[71] MERCK SHARP & DOHME LLC, US

[85] 2024-05-29

[86] 2022-12-09 (PCT/US2022/081253)

[87] (WO2023/108114)

[30] US (63/288,162) 2021-12-10

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[21] **3,239,555**  
[13] A1

[51] **Int.Cl. A61K 31/20 (2006.01) A61K 31/202 (2006.01) A61P 25/16 (2006.01) A61P 25/28 (2006.01) A61P 27/02 (2006.01) A61P 37/08 (2006.01) A61P 39/06 (2006.01)**

[25] EN

[54] **METHOD FOR ALLEVIATING OXIDATIVE STRESS**

[54] **PROCEDE D'ATTENUATION DU STRESS OXYDATIF**

[72] NAKA, TADAOMI, JP

[72] SEKI, WAKAKO, JP

[72] SATO, SEIZO, JP

[71] NISSUI CORPORATION, JP

[85] 2024-05-29

[86] 2022-11-30 (PCT/JP2022/044201)

[87] (WO2023/100938)

[30] US (63/285,669) 2021-12-03

[21] **3,239,556**  
[13] A1

[51] **Int.Cl. H04W 92/02 (2009.01) H04L 61/00 (2022.01)**

[25] EN

[54] **BI-DIRECTIONAL CBRS COMMUNICATIONS SYSTEM AND METHODS**

[54] **SYSTEME ET PROCEDES DE COMMUNICATION CBRS BIDIRECTIONNELLE**

[72] TRAYNOR, MARK JAMES, US

[72] JORDAN, ROBERT MICHAEL, US

[72] FITZPATRICK, SEAN, US

[72] WILLIAMS, THOMAS OWEN, US

[72] GOERGEN, PATRICK JOHN, US

[71] UNIVERSAL CITY STUDIOS LLC, US

[85] 2024-05-29

[86] 2022-12-21 (PCT/US2022/053719)

[87] (WO2023/122217)

[30] US (63/292,718) 2021-12-22

[21] **3,239,557**  
[13] A1

[51] **Int.Cl. B01J 23/62 (2006.01) C07C 5/333 (2006.01) C07C 11/06 (2006.01)**

[25] EN

[54] **CATALYST COMPOSITIONS AND PROCESSES FOR MAKING AND USING SAME**

[54] **COMPOSITIONS DE CATALYSEUR ET LEURS PROCEDES DE FABRICATION ET D'UTILISATION**

[72] BAO, XIAOYING, US

[71] EXXONMOBIL CHEMICAL PATENTS INC., US

[85] 2024-05-29

[86] 2022-11-14 (PCT/US2022/079785)

[87] (WO2023/107797)

[30] US (63/286,312) 2021-12-06

[30] US (63/329,042) 2022-04-08

[21] **3,239,558**  
[13] A1

[51] **Int.Cl. B04B 1/08 (2006.01) B04B 1/10 (2006.01) B04B 13/00 (2006.01)**

[25] EN

[54] **A CENTRIFUGAL SEPARATOR AND AN INTERFACE LEVEL SENSOR**

[54] **SEPARATEUR CENTRIFUGE ET CAPTEUR DE NIVEAU D'INTERFACE**

[72] TORNBLUM, OLLE, SE

[72] BORGSTROM, LEONARD, SE

[71] ALFA LAVAL CORPORATE AB, SE

[85] 2024-05-29

[86] 2022-11-18 (PCT/EP2022/082463)

[87] (WO2023/104477)

[30] EP (21213076.9) 2021-12-08

[21] **3,239,560**  
[13] A1

[25] EN

[54] **METHOD FOR DETECTING IMPROPER POSITION OF VEHICLE ON A SCALE**

[54] **PROCEDE POUR LA DETECTION D'UNE POSITION INCORRECTE DE VEHICULE SUR UNE BALANCE**

[72] WECHSELBERGER, ERIC V., US

[72] FERREE, JESSICA, US

[71] METTLER-TOLEDO, LLC, US

[85] 2024-05-29

[86] 2021-12-13 (PCT/US2021/063074)

[87] (WO2023/113769)

[21] **3,239,561**  
[13] A1

[51] **Int.Cl. C08B 30/18 (2006.01) C08B 37/02 (2006.01) C11D 1/88 (2006.01) C11D 3/20 (2006.01) C11D 3/22 (2006.01)**

[25] EN

[54] **COMPOSITIONS COMPRISING REACTION PRODUCTS OF SACCHARIDE POLYMERS AND FATTY ACIDS OR FATTY ESTERS FORMULATED WITH AN AMIDE-BASED NEUTRAL SURFACTANT**

[54] **COMPOSITIONS COMPRENANT DES PRODUITS DE REACTION DE POLYMERES DE SACCHARIDE ET D'ACIDES GRAS OU D'ESTERS GRAS FORMULES AVEC UN TENSIOACTIF NEUTRE A BASE D'AMIDE**

[72] ALMOND, STEPHEN WILLIAM, US

[72] GARDNER, CHRISTOPHER P., US

[72] MADDURI, ASHOKA V.R., US

[71] INTEGRITY BIO-CHEMICALS, LLC, US

[85] 2024-05-29

[86] 2022-12-19 (PCT/US2022/081943)

[87] (WO2023/122542)

[30] US (63/292,547) 2021-12-22

[21] **3,239,565**  
[13] A1

[51] **Int.Cl. C07D 487/04 (2006.01) A61P 25/28 (2006.01)**

[25] EN

[54] **PHENOXY AND BENZYLOXY SUBSTITUTED PSYCHOPLASTOGENS AND USES THEREOF**

[54] **PSYCHOPLASTOGENES SUBSTITUES PAR PHENOXY ET BENZYLOXY ET LEURS UTILISATIONS**

[72] POWELL, NOEL AARON, US

[72] CHYTIL, MILAN, US

[71] DELIX THERAPEUTICS, INC., US

[85] 2024-05-29

[86] 2022-12-14 (PCT/US2022/052870)

[87] (WO2023/114313)

[30] US (63/290,036) 2021-12-15

[30] US (63/387,222) 2022-12-13



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[21] **3,239,566**  
[13] A1

[51] **Int.Cl. A45D 40/08 (2006.01) A45D 40/12 (2006.01)**  
[25] EN  
[54] **PACKAGED COSMETIC STICK PRODUCT**  
[54] **PRODUIT COSMETIQUE SOUS FORME DE BATON EMBALLE**  
[72] HOSKIN-GREEN, LEONARD GEOFFREY, NL  
[72] OGLESBY, BENJAMIN GEORGE, NL  
[71] UNILEVER GLOBAL IP LIMITED, GB  
[85] 2024-05-29  
[86] 2022-11-09 (PCT/EP2022/081277)  
[87] (WO2023/094160)  
[30] EP (21210994.6) 2021-11-29

[21] **3,239,567**  
[13] A1

[51] **Int.Cl. A61K 31/404 (2006.01)**  
[25] EN  
[54] **PRODRUGS FOR COMPOUNDS SPECIFIC TO GRANZYME B AND USES THEREOF**  
[54] **PROMEDICAMENTS POUR COMPOSES SPECIFIQUES DE GRANZYME B ET UTILISATIONS ASSOCIEES**  
[72] BILCER, GEOFFREY MALCOLM, US  
[72] XIONG, HUI, US  
[72] HORCHLER, CAREY, US  
[72] CASTANARES, MARK A., US  
[72] LIEBERMAN, BRIAN, US  
[72] ZHANG, WEI, US  
[72] HUANG, XUAN, US  
[72] ZHANG, JUNTIAN, US  
[71] CYTOSITE BIOPHARMA INC., US  
[85] 2024-05-29  
[86] 2022-12-07 (PCT/US2022/081125)  
[87] (WO2023/108031)  
[30] US (63/287,473) 2021-12-08

[21] **3,239,568**  
[13] A1

[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/167 (2006.01) A61K 31/352 (2006.01) A61K 31/404 (2006.01) A61K 31/4045 (2006.01) A61K 31/426 (2006.01) A61K 31/428 (2006.01) A61K 31/436 (2006.01) A61K 31/4545 (2006.01) A61K 31/4725 (2006.01) A61K 31/4745 (2006.01) A61K 31/50 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61K 31/519 (2006.01) A61K 31/5377 (2006.01) A61K 31/5395 (2006.01) A61K 31/585 (2006.01) A61K 31/675 (2006.01) A61K 31/737 (2006.01) A61P 35/00 (2006.01)**  
[25] EN  
[54] **SYNERGISTIC COMPOSITIONS FOR USE IN THE TREATMENT OF CANCER**  
[54] **COMPOSITIONS SYNERGIQUES DESTINEES A ETRE UTILISEES DANS LE TRAITEMENT DU CANCER**  
[72] SIHTO, HARRI, FI  
[72] TOIVANEN, KIRSI, FI  
[72] BOHLING, TOM, FI  
[71] SARTAR THERAPEUTICS OY, FI  
[85] 2024-05-29  
[86] 2022-12-07 (PCT/FI2022/050813)  
[87] (WO2023/105119)  
[30] FI (20216252) 2021-12-07

[21] **3,239,569**  
[13] A1

[51] **Int.Cl. H01H 69/02 (2006.01) H01H 85/046 (2006.01) H01H 85/08 (2006.01)**  
[25] EN  
[54] **CERAMIC PRINTED FUSE FABRICATION**  
[54] **FABRICATION DE FUSIBLE IMPRIME EN CERAMIQUE**  
[72] THENKARAI NARAYANAN, VENKAT RAMAN, CZ  
[72] HORKY, MIROSLAV, CZ  
[72] DOUGLASS, ROBERT STEPHEN, US  
[72] TRUBLOWSKI, JOHN, US  
[71] EATON INTELLIGENT POWER LIMITED, IE  
[85] 2024-05-29  
[86] 2022-11-23 (PCT/EP2022/025535)  
[87] (WO2023/099029)  
[30] US (17/538,438) 2021-11-30

[21] **3,239,570**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/127 (2006.01) A61K 48/00 (2006.01)**  
[25] FR  
[54] **NANOPARTICLES FOR RELEASE OF NUCLEIC ACIDS**  
[54] **NANOPARTICULES POUR LA LIBERATION D'ACIDES NUCLEIQUES**  
[72] LOLLO, GIOVANNA, FR  
[72] ANDRETTO, VALENTINA, FR  
[72] KRYZA, DAVID, FR  
[72] AL MOUAZEN, EYAD, FR  
[72] REPELLIN, MATHIEU, FR  
[72] BRIANCON, STEPHANIE, FR  
[72] SCHAEFFER, LAURENT, FR  
[72] JACQUIER, ARNAUD, FR  
[72] COUDERT, LAURENT, FR  
[71] UNIVERSITE CLAUDE BERNARD LYON 1, FR  
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR  
[71] HOSPICES CIVILS DE LYON, FR  
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR  
[71] UNIVERSITA DEGLI STUDI DI VERONA, IT  
[85] 2024-05-29  
[86] 2022-12-02 (PCT/EP2022/084174)  
[87] (WO2023/099722)  
[30] FR (FR2112931) 2021-12-03

[21] **3,239,571**  
[13] A1

[51] **Int.Cl. C07D 487/14 (2006.01) A61K 31/55 (2006.01) A61P 25/18 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01) A61P 25/30 (2006.01) C07D 491/147 (2006.01)**  
[25] EN  
[54] **FUSED PYRROLIDINE PSYCHOPLASTOGENS AND USES THEREOF**  
[54] **PYRROLIDINE FUSIONNEE ET LEURS UTILISATIONS**  
[72] POWELL, NOEL AARON, US  
[72] CHYTIL, MILAN, US  
[71] DELIX THERAPEUTICS, INC., US  
[85] 2024-05-29  
[86] 2022-12-14 (PCT/US2022/052879)  
[87] (WO2023/114320)  
[30] US (63/290,037) 2021-12-15  
[30] US (63/387,225) 2022-12-13

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[21] **3,239,573**  
[13] A1

[51] **Int.Cl. B65D 1/02 (2006.01)**  
[25] EN  
[54] **FLEXIBLE BASE FOR ASEPTIC-FILL BOTTLES**  
[54] **BASE FLEXIBLE POUR BOUTEILLES A REMPLISSAGE ASEPTIQUE**  
[72] BHAT, ADAVIT RASIK, US  
[72] MATHELIER, MARTIN, US  
[71] PEPSICO, INC., US  
[85] 2024-05-29  
[86] 2022-11-22 (PCT/US2022/050750)  
[87] (WO2023/101869)  
[30] US (17/538,646) 2021-11-30

[21] **3,239,574**  
[13] A1

[51] **Int.Cl. G01N 11/08 (2006.01) B01F 23/47 (2022.01) B01F 23/57 (2022.01) B01F 27/50 (2022.01) B01F 27/72 (2022.01) B01F 35/21 (2022.01) B01F 35/22 (2022.01) B01F 35/75 (2022.01)**  
[25] EN  
[54] **SYSTEM AND METHOD FOR PRODUCING AND CONTROLLING PRODUCTION OF VISCOUS MATERIAL SUCH AS BATTERY PASTE FOR INDUSTRIAL APPLICATION**  
[54] **SYSTEME ET PROCEDE DE PRODUCTION ET DE COMMANDE DE LA PRODUCTION D'UNE MATIERE VISQUEUSE TELLE QUE DE LA PATE DE BATTERIE POUR APPLICATION INDUSTRIELLE**  
[72] MARTI, JAN, CH  
[72] DOLDER, VALENTIN, CH  
[71] BUHLER AG, CH  
[85] 2024-05-29  
[86] 2022-12-21 (PCT/EP2022/087311)  
[87] (WO2023/118348)  
[30] EP (21217617.6) 2021-12-23

[21] **3,239,575**  
[13] A1

[51] **Int.Cl. A01N 43/16 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS FOR CONTROLLING PHYTOPATHOGENIC INFECTIONS**  
[54] **COMPOSITIONS ET PROCEDES POUR LUTTER CONTRE DES INFECTIONS PHYTOPATHOGENES**  
[72] BATAILLE-SIMONEAU, NELLY, FR  
[72] CHARPENTIER, THOMAS, FR  
[72] GUILLEMETTE, THOMAS, FR  
[72] LE RAY, ANNE-MARIE, FR  
[72] RICHOMME-PENIGUEL, PASCAL, FR  
[72] SIMONEAU, PHILIPPE, FR  
[72] VIAULT, GUILLAUME, FR  
[71] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT (INRAE), FR  
[71] AGROCAMPUS OUEST (INSTITUT NATIONAL SUPERIEUR DES SCIENCES AGRONOMIQUES, AGRO-ALIMENTAIRES, HORTICOLES ET DU PAYSAGE), FR  
[71] UNIVERSITE D'ANGERS, FR  
[85] 2024-05-29  
[86] 2022-11-30 (PCT/EP2022/083931)  
[87] (WO2023/099609)  
[30] EP (21306671.5) 2021-11-30

[21] **3,239,578**  
[13] A1

[51] **Int.Cl. A61P 25/04 (2006.01)**  
[25] EN  
[54] **PEPTIDES AND METHODS FOR USE IN TREATING PAIN**  
[54] **PEPTIDES ET PROCEDES DESTINES A ETRE UTILISES DANS LE TRAITEMENT DE LA DOULEUR**  
[72] GAILLARD, STEPHANE, FR  
[72] CASTETS, FRANCIS, FR  
[72] MOQRICH, ABDELAZIZ, FR  
[71] TAFALGIE THERAPEUTICS, FR  
[85] 2024-05-29  
[86] 2022-12-19 (PCT/EP2022/086559)  
[87] (WO2023/111348)  
[30] EP (21306835.6) 2021-12-17

[21] **3,239,580**  
[13] A1

[51] **Int.Cl. B29C 53/08 (2006.01) B29C 53/84 (2006.01) B29C 70/52 (2006.01)**  
[25] EN  
[54] **METHOD FOR PRODUCING A BENT THERMOPLASTIC COMPOSITE, A BENT THERMOPLASTIC COMPOSITE AND A SYSTEM FOR MANUFACTURING A BENT THERMOPLASTIC COMPOSITE**  
[54] **PROCEDE DE PRODUCTION D'UN COMPOSITE THERMOPLASTIQUE CINTRE, COMPOSITE THERMOPLASTIQUE CINTRE ET SYSTEME DE FABRICATION D'UN COMPOSITE THERMOPLASTIQUE CINTRE**  
[72] ZOLLER, ALEXANDER, FR  
[72] GERARD, PIERRE, FR  
[72] LE FICHANT, AUDREY, FR  
[71] ARKEMA FRANCE, FR  
[85] 2024-05-29  
[86] 2022-12-23 (PCT/EP2022/087819)  
[87] (WO2023/126371)  
[30] FR (FR2114737) 2021-12-31

[21] **3,239,583**  
[13] A1

[51] **Int.Cl. B30B 11/16 (2006.01) C10L 5/06 (2006.01) C22B 1/24 (2006.01) C22B 1/245 (2006.01)**  
[25] EN  
[54] **PROCESS AND SYSTEM FOR MANUFACTURING A SOLID AGGLOMERATE**  
[54] **PROCEDE ET SYSTEME DE FABRICATION D'UN AGGLOMERAT SOLIDE**  
[72] DE OLIVEIRA, RONALD LOPES, BR  
[72] GONCALVES, GUILHERME FRANCISCO, BR  
[72] POTTER, STEPHEN MICHAEL, BR  
[72] LOVATTI, RAFAEL ARAUJO, BR  
[71] TECNORED DESENVOLVIMENTO TECNOLOGICO S.A., BR  
[85] 2024-05-29  
[86] 2022-11-17 (PCT/BR2022/050451)  
[87] (WO2023/097382)  
[30] BR (BR102021024501-8) 2021-12-03

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[21] **3,239,585**  
[13] A1

[51] **Int.Cl. H04W 4/029 (2018.01) H04W 4/33 (2018.01)**  
[25] EN  
[54] **WIRELESS INTERFACING SYSTEM AND ASSOCIATED METHOD**  
[54] **SYSTEME D'INTERFACAGE SANS FIL ET PROCEDE ASSOCIE**  
[72] AUDET, HUBERT, CA  
[72] BLAIS, ANTHONY, CA  
[72] LEHOUX, PIER-ETIENNE, CA  
[72] HERVIEUX-GAUDREAU, MYRIK, CA  
[71] GPHY INC., CA  
[85] 2024-05-29  
[86] 2022-12-02 (PCT/CA2022/051766)  
[87] (WO2023/097401)  
[30] US (63/264,872) 2021-12-03

[21] **3,239,589**  
[13] A1

[51] **Int.Cl. B41M 1/24 (2006.01) C14B 1/56 (2006.01) C14B 7/02 (2006.01) C14B 15/12 (2006.01)**  
[25] EN  
[54] **MULTILAYER LEATHER PRODUCT AND METHOD FOR THE PREPARATION THEREOF**  
[54] **PRODUIT DE CUIR MULTICOUCHE ET SON PROCEDE DE PREPARATION**  
[72] QUIRICI, PAOLO, IT  
[71] DAVID LEATHER EXPRESSIONS SRL, IT  
[85] 2024-05-29  
[86] 2022-12-02 (PCT/IB2022/061703)  
[87] (WO2023/100149)  
[30] IT (102021000030659) 2021-12-03

[21] **3,239,592**  
[13] A1

[51] **Int.Cl. A61K 9/00 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS FOR PROVIDING PARENTERAL NUTRITION TO PEDIATRIC PATIENTS**  
[54] **COMPOSITIONS POUR FOURNIR UNE NUTRITION PARENTERALE A DES PATIENTS PEDIATRIQUES**  
[72] SCHUSTER, HEIDI, DE  
[72] JONSSON, THERESE, DE  
[71] FRESINIUS KABI DEUTSCHLAND GMBH, DE  
[85] 2024-05-29  
[86] 2022-12-19 (PCT/EP2022/086604)  
[87] (WO2023/117871)  
[30] EP (21216240.8) 2021-12-21

[21] **3,239,586**  
[13] A1

[51] **Int.Cl. D06N 7/00 (2006.01) E01C 13/08 (2006.01)**  
[25] EN  
[54] **ARTIFICIAL TURF AND PROCESS FOR MANUFACTURING ARTIFICIAL TURF**  
[54] **GAZON ARTIFICIEL ET PROCEDE DE FABRICATION DE GAZON ARTIFICIEL**  
[72] VAN VOORST, GERJAN, NL  
[72] DECORTE, DAVIDA, BE  
[72] KRONENBERG, BEREND JAN, NL  
[72] PFEIFFER, FRANCISKUS ARNOLDUS, NL  
[71] VICTORIA HOLDCO B.V., NL  
[85] 2024-05-29  
[86] 2022-12-06 (PCT/EP2022/084539)  
[87] (WO2023/110527)  
[30] EP (21215035.3) 2021-12-16

[21] **3,239,591**  
[13] A1

[51] **Int.Cl. H04L 9/40 (2022.01) G06N 20/00 (2019.01)**  
[25] EN  
[54] **EXPONENTIALLY SMOOTHED CATEGORICAL ENCODING TO CONTROL ACCESS TO A NETWORK RESOURCE**  
[54] **CODAGE CATEGORIEL LISSE EXPONENTIELLEMENT POUR MAITRISER L'ACCES A UNE RESSOURCE DE RESEAU**  
[72] MONNIG, NATHAN DANIEL, US  
[72] RAFLA, ANDREW NADER, US  
[72] SCHRADER, SAMUEL WARD, US  
[71] KOUNT INC., US  
[85] 2024-05-29  
[86] 2022-12-28 (PCT/US2022/082489)  
[87] (WO2023/129977)  
[30] US (17/646,696) 2021-12-31

[21] **3,239,594**  
[13] A1

[51] **Int.Cl. C09K 5/20 (2006.01)**  
[25] EN  
[54] **LOW CURRENT HEAT TRANSFER FLUID FOR SAFER ELECTRICAL APPLICATIONS**  
[54] **FLUIDE DE TRANSFERT DE CHALEUR EN COURANT FAIBLE POUR DES APPLICATIONS ELECTRIQUES PLUS SURES**  
[72] YANG, YING, US  
[72] ELLIOTT, SAMUEL, US  
[72] JENKINS, JENNIFER, US  
[72] TURCOTTE, DAVID E., US  
[72] REID, DALE, US  
[72] WHITTINGTON-BYRD, VIRGINIA, US  
[72] KING, MICHAEL, US  
[71] VALVILINE LICENSING AND INTELLECTUAL PROPERTY LLC, US  
[85] 2024-05-29  
[86] 2022-11-29 (PCT/US2022/080534)  
[87] (WO2023/102362)  
[30] US (17/457,137) 2021-12-01

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[21] **3,239,595**  
[13] A1

[51] **Int.Cl. B60C 25/05 (2006.01) B60C 25/138 (2006.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR TYRE CHANGING**  
[54] **PROCEDE ET APPAREIL DE CHANGEMENT DE PNEU**  
[72] KALLAST, TONU, EE  
[72] SAKS, JAKOB, EE  
[71] RABACONDA OU, EE  
[85] 2024-05-29  
[86] 2022-11-30 (PCT/IB2022/061569)  
[87] (WO2023/100087)  
[30] GB (2117328.1) 2021-12-01

[21] **3,239,597**  
[13] A1

[51] **Int.Cl. H01M 4/02 (2006.01) H01M 4/485 (2010.01) H01M 4/505 (2010.01) H01M 4/36 (2006.01) H01M 4/58 (2010.01) H01M 10/24 (2006.01)**  
[25] EN  
[54] **ALKALINE AND ACIDIFIED METAL OXIDE BLENDED ACTIVE MATERIALS**  
[54] **MATERIAUX ACTIFS MELANGES A BASE D'OXYDE METALLIQUE ALCALIN ET ACIDIFIE**  
[72] JOHNSON, PAIGE L., US  
[71] HHELI, LLC, US  
[85] 2024-05-29  
[86] 2022-12-08 (PCT/US2022/052254)  
[87] (WO2023/114081)  
[30] US (17/644,246) 2021-12-14

[21] **3,239,598**  
[13] A1

[51] **Int.Cl. A47J 31/44 (2006.01)**  
[25] EN  
[54] **REVOLVING BEVERAGE HOLDER**  
[54] **PORTE-BOISSON ROTATIF**  
[72] CUMMER, MICHAEL R., US  
[71] STARBUCKS CORPORATION, US  
[85] 2024-05-29  
[86] 2022-11-29 (PCT/US2022/051213)  
[87] (WO2023/101947)  
[30] US (63/264,929) 2021-12-03

[21] **3,239,601**  
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**  
[25] EN  
[54] **NON-ORIENTED ELECTRICAL STEEL SHEET**  
[54] **SENT TO PBIIMS**  
[72] ZAIZEN, YOSHIKI, JP  
[72] MIYAMOTO, YUKINO, JP  
[72] ODA, YOSHIHIKO, JP  
[72] OKUBO, TOMOYUKI, JP  
[72] YOSHIZAKI, SOUICHIRO, JP  
[71] JFE STEEL CORPORATION, JP  
[85] 2024-05-29  
[86] 2022-12-14 (PCT/JP2022/046096)  
[87] (WO2023/132197)  
[30] JP (2022-001878) 2022-01-07

[21] **3,239,603**  
[13] A1

[51] **Int.Cl. C21D 8/12 (2006.01) C22C 38/00 (2006.01) C22C 38/60 (2006.01) H01F 1/147 (2006.01)**  
[25] EN  
[54] **NON-ORIENTED ELECTRICAL STEEL SHEET**  
[54] **TOLE D'ACIER ELECTROMAGNETIQUE NON ORIENTEE**  
[72] ZAIZEN, YOSHIKI, JP  
[72] MIYAMOTO, YUKINO, JP  
[72] ODA, YOSHIHIKO, JP  
[72] OKUBO, TOMOYUKI, JP  
[72] YOSHIZAKI, SOUICHIRO, JP  
[71] JFE STEEL CORPORATION, JP  
[85] 2024-05-29  
[86] 2022-12-14 (PCT/JP2022/046098)  
[87] (WO2023/132198)  
[30] JP (2022-001880) 2022-01-07

[21] **3,239,605**  
[13] A1

[51] **Int.Cl. A61K 31/198 (2006.01) A23K 50/40 (2016.01) A61K 8/44 (2006.01) A61P 3/02 (2006.01)**  
[25] EN  
[54] **COMPOSITIONS AND METHODS USING AN AMINO ACID BLEND FOR PROVIDING A HEALTH BENEFIT IN AN ANIMAL**  
[54] **COMPOSITIONS ET METHODES UTILISANT UN MELANGE D'ACIDES AMINES POUR FOURNIR UN BENEFICE DE SANTE CHEZ UN ANIMAL**  
[72] LI, QINGHONG, US  
[72] PAN, YUANLONG, US  
[72] STEINER, PASCAL, US  
[72] KARAZ, SONIA, CH  
[71] SOCIETE DES PRODUITS NESTLE S.A., CH  
[85] 2024-05-29  
[86] 2022-11-29 (PCT/IB2022/061549)  
[87] (WO2023/100077)  
[30] US (63/285,212) 2021-12-02

[21] **3,239,606**  
[13] A1

[51] **Int.Cl. A47K 11/02 (2006.01)**  
[25] EN  
[54] **SANITARY CUBICLE, IN PARTICULAR A TOILET CUBICLE**  
[54] **CABINE SANITAIRE, EN PARTICULIER CABINE DE TOILETTES**  
[72] WIRTZ, HOLGER MARTIN, DE  
[72] DIWISCH, STEPHAN, DE  
[72] WORIESCHECK, TIM, DE  
[71] TOI TOI & DIXI GROUP GMBH, DE  
[85] 2024-05-29  
[86] 2022-11-25 (PCT/EP2022/083321)  
[87] (WO2023/110368)  
[30] DE (10 2021 133 721.6) 2021-12-17

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[21] **3,239,610**  
[13] A1

[51] **Int.Cl. G06F 11/07 (2006.01)**  
[25] EN  
[54] **OPERATIONAL INTELLIGENCE PLATFORM**  
[54] **PLATE-FORME D'INTELLIGENCE OPERATIONNELLE**  
[72] COOK, PAUL JAMES, NL  
[71] YONDR GROUP HOLDINGS B.V., NL  
[85] 2024-05-29  
[86] 2022-12-14 (PCT/IB2022/062218)  
[87] (WO2023/111896)  
[30] US (63/289,593) 2021-12-14

[21] **3,239,611**  
[13] A1

[25] EN  
[54] **COMPOUNDS SPECIFIC TO GRANZYME B AND USES THEREOF**  
[54] **COMPOSES SPECIFIQUES DE GRANZYME B ET LEURS UTILISATIONS**  
[72] XIONG, HUI, US  
[72] HORCHLER, CAREY, US  
[72] CASTANARES, MARK A., US  
[72] LIEBERMAN, BRIAN, US  
[72] ZHANG, JUNTIAN, US  
[72] VALENZUELA, FRANCISCO A., US  
[71] CYTOSITE BIOPHARMA INC., US  
[85] 2024-05-29  
[86] 2022-12-07 (PCT/US2022/081098)  
[87] (WO2023/108009)  
[30] US (63/287,494) 2021-12-08

[21] **3,239,612**  
[13] A1

[51] **Int.Cl. C07C 21/18 (2006.01) C07C 17/25 (2006.01) C07C 17/358 (2006.01) C07C 17/383 (2006.01)**  
[25] EN  
[54] **HIGH PURITY HFO-E-1,3,3,3-TETRAFLUOROPROPENE (TRANS-HFO-1234ZE) AND METHODS FOR PRODUCING SAME**  
[54] **HFO-E-1,3,3,3-TETRAFLUOROPROPENE (TRANS-HFO-1234ZE) DE HAUTE PURETE ET LEURS PROCEDES DE PRODUCTION**  
[72] WANG, HAIYOU, US  
[72] CERRI, GUSTAVO, US  
[72] COHN, MITCHEL, US  
[72] BEKTESEVIC, SELMA, US  
[71] HONEYWELL INTERNATIONAL INC., US  
[85] 2024-05-29  
[86] 2022-12-01 (PCT/US2022/080738)  
[87] (WO2023/102470)  
[30] US (63/285,541) 2021-12-03  
[30] US (18/071,610) 2022-11-29

[21] **3,239,613**  
[13] A1

[51] **Int.Cl. C07K 16/22 (2006.01) A61P 19/02 (2006.01) A61P 25/02 (2006.01)**  
[25] EN  
[54] **CANINIZED ANTIBODIES TO HUMAN NGF**  
[54] **ANTICORPS CANINISES DIRIGES CONTRE NGF HUMAIN**  
[72] MORSEY, MOHAMAD, US  
[72] ZHANG, YUANZHENG, US  
[71] INTERVET INTERNATIONAL B.V., NL  
[85] 2024-05-29  
[86] 2022-12-15 (PCT/EP2022/086091)  
[87] (WO2023/111153)  
[30] US (63/290,264) 2021-12-16  
[30] US (63/327,076) 2022-04-04

[21] **3,239,614**  
[13] A1

[51] **Int.Cl. G06F 40/58 (2020.01) G06F 16/33 (2019.01)**  
[25] EN  
[54] **METHODS AND SYSTEMS FOR TRANSLATING PRODUCT OR SERVICE INFORMATION**  
[54] **PROCEDES ET SYSTEMES DE TRADUCTION D'INFORMATIONS DE PRODUIT OU DE SERVICE**  
[72] KRISHNAIAH, MANJUNATH P., US  
[72] GABRIELSE, DANIEL E., US  
[72] MADDINENI, PRADEEP, US  
[72] BAGAVATSSING, ARUNPRASAD, US  
[71] CATERPILLAR INC., US  
[85] 2024-05-29  
[86] 2022-11-21 (PCT/US2022/050520)  
[87] (WO2023/101840)  
[30] US (17/542,179) 2021-12-03

[21] **3,239,615**  
[13] A1

[51] **Int.Cl. C22C 21/08 (2006.01)**  
[25] EN  
[54] **6XXX SERIES ALUMINIUM ALLOY SHEETS OR BLANKS WITH IMPROVED FORMABILITY**  
[54] **FEUILLES OU FLANS D'ALLIAGE D'ALUMINIUM SERIE 6XXX A FORMABILITE AMELIOREE**  
[72] LANGILLE, MICHAEL, FR  
[72] DODGE, PHILIP, US  
[71] CONSTELLIUM BOWLING GREEN LLC, US  
[71] CONSTELLIUM MUSCLE SHOALS LLC, US  
[71] CONSTELLIUM NEUF-BRISACH, FR  
[85] 2024-05-29  
[86] 2022-11-30 (PCT/EP2022/083823)  
[87] (WO2023/099550)  
[30] EP (21211696.6) 2021-12-01

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[21] **3,239,616**  
[13] A1

[51] **Int.Cl. C07C 45/50 (2006.01) C07C 29/141 (2006.01) C07C 31/12 (2006.01) C07C 41/03 (2006.01) C07C 43/11 (2006.01)**

[25] EN

[54] **ALCOHOL MIXTURES INCLUDING LINEAR TRIDECANOLS**

[54] **MELANGES D'ALCOOLS COMPRENANT DES TRIDECANOLS LINEAIRES**

[72] BRAMMER, MICHAEL A., US

[72] YU, WANGLIN, US

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-05-29

[86] 2022-12-01 (PCT/US2022/051497)

[87] (WO2023/107322)

[30] US (63/286,129) 2021-12-06

[21] **3,239,617**  
[13] A1

[51] **Int.Cl. G06N 10/40 (2022.01) G06N 20/00 (2019.01) G06N 10/60 (2022.01) G06N 5/01 (2023.01)**

[25] FR

[54] **METHOD FOR DETERMINING A CONFIGURATION OF A QUANTUM PROCESSOR TO SOLVE AN OPTIMIZATION PROBLEM**

[54] **PROCEDE DE DETERMINATION D'UNE CONFIGURATION D'UN PROCESSEUR QUANTIQUE POUR LA RESOLUTION D'UN PROBLEME D'OPTIMISATION**

[72] LECLERC, LUCAS, FR

[72] THABET, SLIMANE, FR

[72] GRIJALVA, SEBASTIAN, FR

[72] HENRIET, LOIC, FR

[71] PASQAL, FR

[85] 2024-05-29

[86] 2022-12-02 (PCT/EP2022/084222)

[87] (WO2023/099742)

[30] FR (FR2112918) 2021-12-03

[21] **3,239,618**  
[13] A1

[25] EN

[54] **AQUEOUS GRAPHITE LUBRICANT COMPOSITIONS COMPRISING DISPERSANTS**

[54] **COMPOSITIONS DE LUBRIFIANT A BASE DE GRAPHITE AQUEUSE COMPRENANT DES DISPERSANTS**

[72] GIDDI, HEMA SAGAR, IN

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-05-29

[86] 2022-12-01 (PCT/US2022/051498)

[87] (WO2023/107323)

[30] IN (202111056459) 2021-12-06

[21] **3,239,619**  
[13] A1

[25] EN

[54] **ENGINEERED CELLS AND USES THEREOF**

[54] **CELLULES MODIFIEES ET LEURS UTILISATIONS**

[72] SEGAL, BENJAMIN, US

[72] SAS, ANDREW, US

[72] JEROME, ANDREW, US

[72] LIU, TOM, US

[71] OHIO STATE INNOVATION FOUNDATION, US

[85] 2024-05-29

[86] 2022-11-30 (PCT/US2022/080673)

[87] (WO2023/102431)

[30] US (63/284,164) 2021-11-30

[21] **3,239,620**  
[13] A1

[25] EN

[54] **LUBRICANT COMPOSITIONS INCLUDING POLYMERIC DISPERSANTS**

[54] **COMPOSITIONS LUBRIFIANTES COMPRENANT DES AGENTS DISPERSANTS POLYMERES**

[72] GIDDI, HEMA SAGAR, IN

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-05-29

[86] 2022-12-01 (PCT/US2022/051499)

[87] (WO2023/107324)

[30] IN (202111056417) 2021-12-06

[21] **3,239,621**  
[13] A1

[51] **Int.Cl. C07K 14/285 (2006.01) C07K 14/36 (2006.01)**

[25] EN

[54] **COMPOSITIONS AND METHODS FOR TREATING CANCER**

[54] **COMPOSITIONS ET METHODES POUR TRAITER LE CANCER**

[72] KACHLANY, SCOTT C., US

[71] RUTGER, THE STATE UNIVERSITY OF NEW JERSEY, US

[85] 2024-05-29

[86] 2022-11-30 (PCT/US2022/080670)

[87] (WO2023/107842)

[30] US (63/286,236) 2021-12-06

[21] **3,239,622**  
[13] A1

[51] **Int.Cl. A24F 40/465 (2020.01) A24F 40/20 (2020.01)**

[25] EN

[54] **AEROSOL GENERATING DEVICE**

[54] **DISPOSITIF DE GENERATION D'AEROSOL**

[72] BURGESS, JONATHAN, GB

[72] MCGRATH, CONOR, GB

[72] KUZMICKA, SYLWIA, GB

[72] DAVIS, PETER, GB

[71] NICOVENTURES TRADING LIMITED, GB

[85] 2024-05-29

[86] 2022-11-07 (PCT/EP2022/081017)

[87] (WO2023/099129)

[30] GB (2117352.1) 2021-12-01

[21] **3,239,623**  
[13] A1

[25] EN

[54] **AQUEOUS GRAPHITE LUBRICANT COMPOSITIONS**

[54] **COMPOSITIONS LUBRIFIANTES A BASE DE GRAPHITE AQUEUX**

[72] GIDDI, HEMA SAGAR, IN

[71] DOW GLOBAL TECHNOLOGIES LLC, US

[85] 2024-05-29

[86] 2022-12-01 (PCT/US2022/051496)

[87] (WO2023/107321)

[30] IN (202111056456) 2021-12-06

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[21] **3,239,624**  
[13] A1

[51] **Int.Cl. A61L 29/04 (2006.01) A61L 29/12 (2006.01) A61L 29/14 (2006.01)**  
[25] EN  
[54] **LOW FRICTION AND FLEXIBLE CATHETER LINER**  
[54] **REVETEMENT DE CATHETER FLEXIBLE ET A FAIBLE FROTTEMENT**  
[72] O'MALLEY, PHILIP, IE  
[72] CAMPION, PATRICK, IE  
[72] BUTLER, DAVID, IE  
[72] LYNN, SEAN, IE  
[72] GORADIA, NIHIR, IE  
[72] RHODES, NATHANIEL LEE RANDY, US  
[72] GABAY, GREG, US  
[71] TELEFLEX LIFE SCIENCES LLC, US  
[85] 2024-05-29  
[86] 2022-12-02 (PCT/IB2022/061728)  
[87] (WO2023/100154)  
[30] US (63/285,428) 2021-12-02

[21] **3,239,625**  
[13] A1

[51] **Int.Cl. A24F 40/40 (2020.01)**  
[25] EN  
[54] **AEROSOL GENERATION DEVICE HOUSING**  
[54] **BOITIER DE DISPOSITIF DE GENERATION D'AEROSOL**  
[72] JONES, DORCAS, GB  
[72] WHIFFEN, ROBERT, GB  
[72] DAI, DAVISON, GB  
[71] NICOVENTURES TRADING LIMITED, GB  
[85] 2024-05-29  
[86] 2022-12-01 (PCT/EP2022/084138)  
[87] (WO2023/099700)  
[30] CN (2021114543836) 2021-12-01  
[30] GB (2200190.3) 2022-01-07

[21] **3,239,626**  
[13] A1

[51] **Int.Cl. B29C 45/26 (2006.01) B29C 45/64 (2006.01)**  
[25] EN  
[54] **MOLDS, MOLD ASSEMBLIES AND STACK COMPONENTS**  
[54] **MOULES, ENSEMBLES MOULES ET COMPOSANTS D'EMPILAGE**  
[72] FISCH, RALF WALTER, DE  
[72] HYVARINEN, HEIKKI SAKARI, CA  
[71] HUSKY INJECTION MOLDING SYSTEMS LTD., CA  
[85] 2024-05-29  
[86] 2022-11-25 (PCT/CA2022/051729)  
[87] (WO2023/092230)  
[30] US (63/264,618) 2021-11-29  
[30] US (63/267,574) 2022-02-04

[21] **3,239,627**  
[13] A1

[51] **Int.Cl. G01S 5/02 (2010.01) G01S 13/88 (2006.01) G01S 13/90 (2006.01) G01S 19/25 (2010.01) G01S 19/42 (2010.01) G01S 19/48 (2010.01)**  
[25] EN  
[54] **NETWORK-ASSISTED SELF-POSITIONING OF A MOBILE COMMUNICATION DEVICE**  
[54] **AUTO-POSITIONNEMENT ASSISTE PAR RESEAU D'UN DISPOSITIF DE COMMUNICATION MOBILE**  
[72] DAHLGREN, FREDRIK, SE  
[72] OLSSON, MAGNUS, SE  
[72] ZOU, GANG, SE  
[72] SANDGREN, MAGNUS, SE  
[72] KALANTARI, ASHKAN, SE  
[72] SJOLAND, HENRIK, SE  
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE  
[85] 2024-05-29  
[86] 2021-11-30 (PCT/EP2021/083581)  
[87] (WO2023/098977)

[21] **3,239,628**  
[13] A1

[51] **Int.Cl. A61B 5/1455 (2006.01)**  
[25] EN  
[54] **INTRAVASCULAR BLOOD PUMP**  
[54] **POMPE A SANG INTRAVASCULAIRE**  
[72] SEGURA ORTEGA, CARLOS ALEJANDRO, US  
[72] GENTILE, ANDREW, US  
[71] ABIOMED, INC., US  
[85] 2024-05-29  
[86] 2022-12-02 (PCT/US2022/051660)  
[87] (WO2023/102185)  
[30] US (63/285,810) 2021-12-03  
[30] US (63/293,241) 2021-12-23

[21] **3,239,629**  
[13] A1

[51] **Int.Cl. A61P 27/02 (2006.01)**  
[25] EN  
[54] **OPHTHALMIC PHARMACEUTICAL COMPOSITIONS CONTAINING A NITRIC OXIDE-RELEASING PHOSPHODIESTERASE 5 INHIBITOR AND METHOD FOR THE PREPARATION THEREOF**  
[54] **COMPOSITIONS PHARMACEUTIQUES OPHTALMIQUES CONTENANT UN INHIBITEUR DE PHOSPHODIESTERASE 5 LIBERANT DE L'OXYDE NITRIQUE ET LEUR PROCEDE DE PREPARATION**  
[72] ALMIRANTE, NICOLETTA, IT  
[72] BRAMBILLA, STEFANIA, IT  
[72] GALLI, CORINNA, IT  
[71] NICOX SA, FR  
[85] 2024-05-29  
[86] 2022-12-01 (PCT/EP2022/083986)  
[87] (WO2023/099638)  
[30] EP (21211990.3) 2021-12-02

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[21] **3,239,630**  
[13] A1

[51] **Int.Cl. D06L 4/10 (2017.01) D06L 4/30 (2017.01) D06L 4/75 (2017.01) C08J 11/08 (2006.01) C08J 11/16 (2006.01) D06L 1/22 (2006.01)**

[25] EN

[54] **A PROCESS FOR DECOLOURING TEXTILES**

[54] **PROCEDE DE DECOLORATION DE TEXTILES**

[72] HOJLAND, DITTE, DK

[72] ROSSEN, SIMON HUNDAHL, DK

[72] HOSTRUP, EMMA THONESSEN, DK

[72] RASMUSSEN, EMIL, DK

[72] TODE, ANNA, DK

[71] TEXTILE CHANGE APS, DK

[85] 2024-05-29

[86] 2023-01-16 (PCT/EP2023/050835)

[87] (WO2023/143943)

[30] DK (PA 2022 00080) 2022-01-28

[21] **3,239,631**  
[13] A1

[51] **Int.Cl. F02B 1/04 (2006.01)**

[25] EN

[54] **TWO-STROKE ENGINE ASSEMBLY HAVING A CATALYTIC CONVERTER AND METHOD FOR CONTROLLING SAME**

[54] **ENSEMBLE MOTEUR A DEUX TEMPS COMPORTANT UN CONVERTISSEUR CATALYTIQUE ET SON PROCEDE DE COMMANDE**

[72] SCHUEHMACHER, BRUNO, CA

[72] THIBAUT, SEBASTIEN, CA

[72] GIGUERE, MARC, CA

[72] GAMACHE, VINCENT, CA

[72] CHAMPIGNY, LUC, CA

[72] FORTIN, CLAUDE, CA

[71] BOMBARDIER RECREATIONAL PRODUCTS INC., CA

[85] 2024-05-30

[86] 2022-11-30 (PCT/IB2022/061614)

[87] (WO2023/100114)

[30] US (63/284,155) 2021-11-30

[21] **3,239,645**  
[13] A1

[51] **Int.Cl. C08G 63/85 (2006.01) C09D 7/61 (2018.01) C09D 7/63 (2018.01) C08K 5/00 (2006.01) C08K 5/42 (2006.01) C09D 5/00 (2006.01) C09D 167/08 (2006.01)**

[25] EN

[54] **PAINTS CONTAINING DRIERS BASED ON VANADIUM COMPOUNDS BEARING VARIOUS ACID ANIONS**

[54] **PEINTURES CONTENANT DES SICCATIFS A BASE DE COMPOSES DE VANADIUM PORTANT DIVERS ANIONS ACIDES**

[72] SIMPSON, NEIL J., DE

[72] KLUSSMANN, MARTIN, DE

[72] HALSTEAD, JOSHUA, US

[72] BRAND, STEFFEN, DE

[71] BORCHERS GMBH, DE

[85] 2024-05-30

[86] 2022-12-07 (PCT/EP2022/084743)

[87] (WO2023/117421)

[30] US (63/292,499) 2021-12-22

[30] EP (22150047.3) 2022-01-03

[21] **3,239,655**  
[13] A1

[51] **Int.Cl. A01N 37/46 (2006.01)**

[25] EN

[54] **INSECT NEUROPEPTIDE ANALOGUES**

[54] **ANALOGUES DE NEUROPEPTIDES D'INSECTES**

[72] DAVIES, SHIREEN-ANNE, GB

[72] DOW, JULIAN ALEXANDER THOMAS, GB

[72] ABUL-HAIJA, YOUSEF, GB

[71] SOLASTA BIO LIMITED, GB

[85] 2024-05-30

[86] 2022-12-02 (PCT/GB2022/053082)

[87] (WO2023/099922)

[30] GB (2117537.7) 2021-12-03

[30] GB (2208466.9) 2022-06-09

[21] **3,239,657**  
[13] A1

[51] **Int.Cl. A61K 47/64 (2017.01)**

[25] EN

[54] **COMBINATION THERAPY FOR CANCER TREATMENT**

[54] **POLYTHERAPIE POUR LE TRAITEMENT DU CANCER**

[72] DUNCAN, JAMES S., US

[71] INSTITUTE FOR CANCER RESEARCH D/B/A/ THE RESEARCH INSTITUTE OF FOX CHASE CANCER CENTER, US

[85] 2024-05-30

[86] 2022-11-29 (PCT/US2022/080567)

[87] (WO2023/102379)

[30] US (63/284,218) 2021-11-30

[21] **3,239,658**  
[13] A1

[51] **Int.Cl. E21B 17/06 (2006.01) E21B 23/04 (2006.01) E21B 29/02 (2006.01)**

[25] EN

[54] **DOWNHOLE APPARATUS**

[54] **APPAREIL DE FOND DE TROU**

[72] MASSEY, JAMES P., US

[71] IMPACT SELECTOR INTERNATIONAL, LLC, US

[85] 2024-05-30

[86] 2023-03-13 (PCT/US2023/064226)

[87] (WO2023/178032)

[30] US (63/269,331) 2022-03-14

[21] **3,239,664**  
[13] A1

[51] **Int.Cl. H01M 8/0668 (2016.01) H01M 8/04089 (2016.01) H01M 8/04119 (2016.01) H01M 8/0612 (2016.01)**

[25] EN

[54] **FUEL CELL SYSTEM INCLUDING EJECTOR**

[54] **SYSTEME DE PILE A COMBUSTIBLE COMPORTANT UN EJECTEUR**

[72] BROWN, CASY CLOUDLESS, CA

[71] VERSA POWER SYSTEMS LTD, US

[85] 2024-05-30

[86] 2022-11-30 (PCT/US2022/051330)

[87] (WO2023/102006)

[30] US (63/285,274) 2021-12-02



## Demandes PCT entrant en phase nationale

[21] **3,239,673**  
[13] A1

[51] **Int.Cl. C10L 9/08 (2006.01) C04B 7/43 (2006.01) F23C 7/08 (2006.01) F27B 7/36 (2006.01)**

[25] EN

[54] **OXYGEN INJECTION FOR ALTERNATIVE FUELS USED IN CEMENT PRODUCTION**

[54] **INJECTION D'OXYGENE POUR COMBUSTIBLES DE SUBSTITUTION UTILISES DANS LA FABRICATION DE CIMENT**

[72] RICHARDSON, ANDREW, US

[72] HEINE, REED A., US

[72] VERMA, KINSHUK, US

[72] DEMUTH, MARTIN, AT

[71] MESSER INDUSTRIES USA, INC., US

[71] MESSER AUSTRIA GMBH, AU

[85] 2024-05-30

[86] 2022-11-23 (PCT/US2022/050835)

[87] (WO2023/101873)

[30] US (63/285,159) 2021-12-02

[30] US (17/990,846) 2022-11-21

[21] **3,239,675**  
[13] A1

[51] **Int.Cl. G01B 17/02 (2006.01)**

[25] EN

[54] **IN-LINE INSPECTION AND CRACK DETECTION**

[54] **INSPECTION INTERNE ET DETECTION DE FISSURES**

[72] VAN ANDEL, PETRUS WILEM, NL

[72] DE LORENZO, ROBERT VICTOR, US

[72] MANZAC, PAUL, US

[71] QUEST INTEGRITY USA, LLC, US

[85] 2024-05-30

[86] 2022-12-15 (PCT/US2022/053047)

[87] (WO2023/114424)

[30] US (63/290,219) 2021-12-16

[21] **3,239,676**  
[13] A1

[51] **Int.Cl. A61K 31/444 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01)**

[25] EN

[54] **COMBINATION THERAPY COMPRISING A PKC INHIBITOR AND A C-MET INHIBITOR**

[54] **POLYTHERAPIE COMPRENANT UN INHIBITEUR DE PKC ET UN INHIBITEUR DE C-MET**

[72] MAUER, MATTHEW ANTHONY, US

[72] O'QUIGLEY, MICHAEL GABRIEL, US

[72] ZANG, RICHARD, US

[72] HOLLAND, JAYMES, US

[72] LE, MAI HOPE, US

[72] JAW-TSAI, SARAH SHWU-KUAN, US

[71] IDEAYA BIOSCIENCES, INC., US

[71] PFIZER, INC., US

[85] 2024-05-30

[86] 2022-12-05 (PCT/US2022/080928)

[87] (WO2023/107894)

[30] US (63/286,345) 2021-12-06

[30] US (63/317,573) 2022-03-08

[30] US (63/370,056) 2022-08-01

[21] **3,239,680**  
[13] A1

[51] **Int.Cl. A41C 3/04 (2006.01) A61B 5/256 (2021.01)**

[25] EN

[54] **SENSOR-BASED GARMENT FOR MONITORING OF BREAST MILK PRODUCTION**

[54] **VETEMENT A CAPTEURS DE SURVEILLANCE DE PRODUCTION DE LAIT MATERNEL**

[72] ORTIZ, ADRIANA CATALINA VAZQUEZ, US

[72] KUMAR, SUJAY SURESH, US

[71] LILU INC., US

[85] 2024-05-30

[86] 2023-01-17 (PCT/US2023/060721)

[87] (WO2023/141413)

[30] US (63/300,781) 2022-01-19

[30] US (17/900,514) 2022-08-31

[21] **3,239,682**  
[13] A1

[51] **Int.Cl. C09K 8/80 (2006.01) E21B 43/267 (2006.01)**

[25] EN

[54] **METHODS OF FORMING A PERMEABLE PROPPANT PACK IN A GEOTHERMAL FORMATION**

[54] **PROCEDES DE FORMATION D'UN PAQUET D'AGENT DE SOUTENEMENT PERMEABLE DANS UNE FORMATION GEOTHERMIQUE**

[72] UDDENBURG, MATT, US

[72] GARRISON, GEOFF, US

[72] PETTY, SUSAN, US

[71] ALTAROCK ENERGY, INC., US

[85] 2024-05-30

[86] 2022-12-07 (PCT/US2022/052110)

[87] (WO2023/107546)

[30] US (63/287,292) 2021-12-08

[21] **3,239,699**  
[13] A1

[51] **Int.Cl. A61M 5/00 (2006.01)**

[25] EN

[54] **DRUG DELIVERY DEVICE FIXTURE FOR TESTING SYSTEM AND METHODS THEREFOR**

[54] **DISPOSITIF DE FIXATION DE DISPOSITIF D'ADMINISTRATION DE MEDICAMENT POUR SYSTEME DE TEST ET PROCEDES ASSOCIES**

[72] LANGLEY, TREVOR, US

[72] HANCHAR, ELIZABETH, US

[72] MAHUNIK, WESLEY, US

[71] REGENERON PHARMACEUTICALS, INC., US

[85] 2024-05-30

[86] 2022-12-07 (PCT/US2022/081064)

[87] (WO2023/107984)

[30] US (63/287,500) 2021-12-08

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[21] **3,239,704**

[13] A1

[51] **Int.Cl. E05B 47/00 (2006.01) E05B  
13/00 (2006.01) E05B 47/06 (2006.01)  
E05B 9/04 (2006.01)**

[25] EN

[54] **BARRIER DEVICE FOR A  
CLOSURE ELEMENT**

[54] **DISPOSITIF DE BARRIERE POUR  
UN ELEMENT DE FERMETURE**

[72] KOLLIKER, MARCEL, CH

[72] DI SARIO, FRANCO, CH

[72] ZAHNER, MARKUS, CH

[71] DORMAKABA SCHWEIZ AG, CH

[85] 2024-05-30

[86] 2022-12-02 (PCT/EP2022/084201)

[87] (WO2023/099728)

[30] EP (21212239.4) 2021-12-03

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[21] **3,239,709**

[13] A1

[51] **Int.Cl. G06N 20/00 (2019.01) H04L  
41/16 (2022.01)**

[25] EN

[54] **CARRIER ACQUISITION IN  
SATELLITE COMMUNICATIONS**

[54] **ACQUISITION DE PORTEUSE  
DANS LES COMMUNICATIONS  
PAR SATELLITE**

[72] FAN, ZENGQUAN, US

[72] JADHAV, KISH, US

[72] LASHER, BRANDON, US

[71] HUGHES NETWORK SYSTEMS,  
LLC, US

[85] 2024-05-30

[86] 2022-09-22 (PCT/US2022/044358)

[87] (WO2023/101751)

[30] US (17/537,879) 2021-11-30

# 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] <b>3,238,886</b> [13] A1	[21] <b>3,238,977</b> [13] A1	[21] <b>3,238,984</b> [13] A1
<p>[51] <b>Int.Cl. B65B 35/36 (2006.01) B65B 57/10 (2006.01)</b></p> <p>[25] EN</p> <p>[54] <b>APPARATUS AND METHOD FOR TRANSFERRING CONTINUOUSLY MOVING ARTICLES TO C ONTINUOUSLY MOVING PACKAGES WITH INTERVENING ARTICLE GROUPING AND GROUP PITCH ADJUSTMENT</b></p> <p>[54] <b>APPAREIL ET METHODE POUR TRANSFERER DES ARTICLES EN MOUVEMENT CONTINU A DES EMBALLAGES EN MOUVEMENT CONTINU COMPRENANT UN GROUPEMENT D'ARTICLE INTERVENANT ET AJUSTEMENT DE L'INCLINAISON DU GROUPE</b></p> <p>[72] KALANY, ROBERT M., US</p> <p>[72] SALVATO, ANTHONY B., US</p> <p>[72] LUKES, MATTHEW R., US</p> <p>[72] BRUGGER, JEROME ., US</p> <p>[71] R.A JONES &amp; CO., US</p> <p>[22] 2017-01-13</p> <p>[41] 2017-07-27</p> <p>[62] 3,011,690</p> <p>[30] US (62/280,901) 2016-01-20</p> <p>[30] US (15/341,462) 2016-11-02</p>	<p>[25] EN</p> <p>[54] <b>CART TIPPER PROTECTION DEVICE AND PROCESS</b></p> <p>[54] <b>DISPOSITIF DE PROTECTION DE MECANISME DE BASCULEMENT DE CHARIOT ET PROCEDE</b></p> <p>[72] BIVENS, CHARLES M., US</p> <p>[72] PHILIPOT, JARROD, US</p> <p>[72] SHOCK, CHRISTOPHER, US</p> <p>[71] MICROMATIC, LLC, US</p> <p>[22] 2022-07-22</p> <p>[41] 2023-01-23</p> <p>[62] 3,170,925</p> <p>[30] US (63/225,375) 2021-07-23</p> <p>[30] US (63/372,386) 2021-10-29</p>	<p>[25] EN</p> <p>[54] <b>CART TIPPER PROTECTION DEVICE AND PROCESS</b></p> <p>[54] <b>DISPOSITIF DE PROTECTION DE MECANISME DE BASCULEMENT DE CHARIOT ET PROCEDE</b></p> <p>[72] BIVENS, CHARLES M., US</p> <p>[72] PHILIPOT, JARROD, US</p> <p>[72] SHOCK, CHRISTOPHER, US</p> <p>[71] MICROMATIC, LLC., US</p> <p>[22] 2022-07-22</p> <p>[41] 2023-01-23</p> <p>[62] 3,170,925</p> <p>[30] US (63/225,375) 2021-07-23</p> <p>[30] US (63/372,386) 2021-10-29</p>	
<p>[21] <b>3,238,890</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>RAILROAD HOPPER CAR AND DOOR MECHANISM THEREFOR</b></p> <p>[54] <b>WAGON-TREMIE DE CHEMIN DE FER ET MECANISME DE PORTE CORRESPONDANT</b></p> <p>[72] BIS, TOMASZ, CA</p> <p>[72] FORBES, JAMES WILFRED, CA</p> <p>[71] NATIONAL STEEL CAR LIMITED, CA</p> <p>[22] 2013-03-22</p> <p>[41] 2014-09-15</p> <p>[62] 3,119,137</p> <p>[30] US (13/841,321) 2013-03-15</p> <p>[30] US (13/841,419) 2013-03-15</p>	<p>[21] <b>3,238,980</b> [13] A1</p> <p>[25] EN</p> <p>[54] <b>CART TIPPER PROTECTION DEVICE AND PROCESS</b></p> <p>[54] <b>DISPOSITIF DE PROTECTION DE MECANISME DE BASCULEMENT DE CHARIOT ET PROCEDE</b></p> <p>[72] BIVENS, CHARLES M., US</p> <p>[72] PHILIPOT, JARROD, US</p> <p>[72] SHOCK, CHRISTOPHER, US</p> <p>[71] MICROMATIC, LLC., US</p> <p>[22] 2022-07-22</p> <p>[41] 2023-01-23</p> <p>[62] 3,170,925</p> <p>[30] US (63/225,375) 2021-07-23</p> <p>[30] US (63/372,386) 2021-10-29</p>	<p>[21] <b>3,239,015</b> [13] A1</p> <p>[51] <b>Int.Cl. G10L 19/26 (2013.01)</b></p> <p>[25] EN</p> <p>[54] <b>AUDIO DECODING WITH SELECTIVE POST FILTERING</b></p> <p>[54] <b>DECODAGE AUDIO AVEC POST-FILTRAGE SELECTIF</b></p> <p>[72] RESCH, BARBARA, SE</p> <p>[72] KJORLING, KRISTOFER, SE</p> <p>[72] VILLEMOS, LARS, SE</p> <p>[71] DOLBY INTERNATIONAL AB, IE</p> <p>[22] 2011-06-23</p> <p>[41] 2012-01-05</p> <p>[62] 3,207,181</p> <p>[30] US (61/361237) 2010-07-02</p>	

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[21] **3,239,093**  
[13] A1

[25] EN  
[54] **DATA TRANSMISSION METHOD, ACCESS POINT, AND STATION**  
[54] **PROCEDE DE TRANSMISSION DE DONNEES, POINT D'ACCES ET STATION**  
[72] LI, YANCHUN, CN  
[72] LAN, ZHOU, CN  
[72] LI, YUNBO, CN  
[71] HUAWEI TECHNOLOGIES CO., LTD., CN  
[22] 2015-07-16  
[41] 2017-01-19  
[62] 2,992,630

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[21] **3,239,100**  
[13] A1

[25] EN  
[54] **HEIGHT ADJUSTABLE DEVICE WITH CONCEALED LIFT MECHANISM**  
[54] **DISPOSITIF REGLABLE EN HAUTEUR DISPOSANT D'UN MECANISME DE LEVAGE DISSIMULE**  
[72] SWARTZ, NICHOLAS ROBERT, US  
[72] LINDBLAD, SHAUN CHRISTOPHER, US  
[72] PRINCE, DAVID J., US  
[72] MULLEN, MICHAEL JOHN, US  
[72] LUCAS, JAMES ROBERT, US  
[72] ERGUN, MUSTAFA A., US  
[72] FLUHRER, ROBERT WILLIAM, US  
[71] ERGOTRON, INC., US  
[22] 2016-04-27  
[41] 2016-12-08  
[62] 2,988,100  
[30] US (62/170,321) 2015-06-03  
[30] US (62/239,028) 2015-10-08  
[30] US (62/317,031) 2016-04-01

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[21] **3,239,143**  
[13] A1

[51] **Int.Cl. H04N 19/119 (2014.01) H04N 19/169 (2014.01)**  
[25] EN  
[54] **METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE**  
[54] **PROCEDE ET APPAREIL DE CODAGE/DECODAGE D'IMAGE**  
[72] MIN, JUNG-HYE, KR  
[72] PARK, MIN-WOO, KR  
[72] JIN, BO-RA, KR  
[72] KIM, CHAN-YUL, KR  
[71] SAMSUNG ELECTRONICS CO., LTD., KR  
[22] 2016-10-10  
[41] 2018-04-19  
[62] 3,114,825

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[21] **3,239,154**  
[13] A1

[25] EN  
[54] **RESISTANCE CONTROL SYSTEMS AND METHODS FOR AMUSEMENT ATTRACTIONS**  
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE RESISTANCE POUR MANEGES DE PARC D'ATTRACTIONS**  
[72] BLUM, STEVEN C., US  
[72] STEPANIAN, MARK ALLAN, US  
[72] BARNER, JORDAN DILLON, US  
[72] BLANKENSHIP, TYLER JAMES, US  
[71] UNIVERSAL CITY STUDIOS LLC, US  
[22] 2020-08-20  
[41] 2021-02-25  
[62] 3,149,647  
[30] US (62/889,943) 2019-08-21  
[30] US (16/687,354) 2019-11-18

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[21] **3,239,163**  
[13] A1

[51] **Int.Cl. H04N 23/958 (2023.01) H04N 23/695 (2023.01) H04N 23/698 (2023.01) H04N 7/15 (2006.01)**  
[25] EN  
[54] **COMPOSITING AND SCALING ANGULARLY SEPARATED SUB-SCENES**  
[54] **COMPOSITION ET MISE A L'ECHELLE DE SOUS-SCENES SEPARÉES ANGULAIREMENT**  
[72] SCHNITTMAN, MARK STEVEN, US  
[72] MAKEEV, MAKSIM, US  
[71] OWL LABS, INC., US  
[22] 2016-04-01  
[41] 2016-10-06  
[62] 2,981,522  
[30] US (62/141,822) 2015-04-01

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[21] **3,239,238**  
[13] A1

[25] EN  
[54] **PATCH LOCK ASSEMBLY FOR USE IN A DOOR LATCH SYSTEM**  
[54] **ASSEMBLAGE DE BLOC DE VERROU A UTILISER DANS UN SYSTEME DE LOQUET DE PORTE**  
[72] SULLIVAN, SCOTT P., US  
[71] HANCHETT ENTRY SYSTEMS, INC., US  
[22] 2019-01-23  
[41] 2019-07-23  
[62] 3,031,155  
[30] US (62/620,791) 2018-01-23

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[21] **3,239,242**  
[13] A1

[25] EN  
[54] **POINT-OF-BIRTH SYSTEM AND INSTRUMENT, BIOCHEMICAL CARTRIDGE, AND METHODS FOR NEWBORN SCREENING**  
[54] **SYSTEME ET INSTRUMENT DE POINT DE NAISSANCE, CARTOUCHE BIOCHIMIQUE ET PROCEDES DE DEPISTAGE DE NOUVEAU-NE**  
[72] PAMULA, VAMSEE, US  
[72] SRINIVASAN, VIJAY, US  
[72] BORT, DONOVAN, US  
[71] BAEBIES, INC., US  
[22] 2017-05-01  
[41] 2017-11-02  
[62] 3,021,348  
[30] US (62/329,591) 2016-04-29

**Demandes canadiennes apparentées par division et  
demandes mises à la disponibilité du public non disponibles auparavant**

[21] **3,239,245**  
[13] A1

[25] EN  
[54] **TOPICAL SKIN CARE FORMULATIONS COMPRISING PLANT EXTRACTS**  
[54] **FORMULATIONS TOPIQUES DE SOIN DE LA PEAU COMPRENANT DES EXTRAITS VEGETAUX**  
[72] FLORENCE, TIFFANY, US  
[72] GAN, DAVID, US  
[72] HINES, MICHELLE, US  
[71] MARY KAY INC., US  
[22] 2010-08-26  
[41] 2011-03-10  
[62] 3,146,879  
[30] US (61/237,087) 2009-08-26

[21] **3,239,255**  
[13] A1

[25] EN  
[54] **PROSTHETIC HEART VALVE DELIVERY SYSTEM**  
[54] **SYSTEME DE POSE DE VALVULE CARDIAQUE PROTHETIQUE**  
[72] WALSH, BRANDON G., US  
[72] ZHANG, JI, CA  
[72] YANG, CHENG YONG, US  
[71] JC MEDICAL, INC., US  
[22] 2019-01-04  
[41] 2019-07-11  
[62] 3,081,357  
[30] US (62/614,488) 2018-01-07

[21] **3,239,279**  
[13] A1

[51] **Int.Cl. G10L 19/022 (2013.01)**  
[25] EN  
[54] **CROSS PRODUCT ENHANCED SUBBAND BLOCK BASED HARMONIC TRANSPOSITION**  
[54] **TRANSPOSITION HARMONIQUE A BASE DE BLOC DE SOUS-BANDE A PRODUIT D'INTERMODULATION AMELIORE**  
[72] VILLEMOS, LARS, SE  
[71] DOLBY INTERNATIONAL AB, IE  
[22] 2011-09-05  
[41] 2012-03-22  
[62] 3,220,202  
[30] US (61/383441) 2010-09-16  
[30] US (61/419164) 2010-12-02

[21] **3,239,285**  
[13] A1

[51] **Int.Cl. A61K 35/17 (2015.01) A61P 31/00 (2006.01) A61P 35/00 (2006.01) A61P 37/06 (2006.01)**  
[25] EN  
[54] **TRANSDUCTION AND EXPANSION OF CELLS**  
[54] **TRANSDUCTION ET EXPANSION DE CELLULES**  
[72] KARADIMITRIS, ANASTASIOS, GB  
[72] ROTOLO, ANTONIA, GB  
[71] IMPERIAL COLLEGE INNOVATIONS LIMITED, GB  
[22] 2019-02-28  
[41] 2019-09-06  
[62] 3,092,651  
[30] GB (1803376.1) 2018-03-01

[21] **3,239,291**  
[13] A1

[25] EN  
[54] **MICROSPHERE-BASED DELIVERY AND EX VIVO MANIPULATION OF DENDRITIC CELLS FOR AUTOIMMUNE THERAPIES**  
[54] **ADMINISTRATION A BASE DE MICROSPHERES ET MANIPULATION EX VIVO DE CELLULES DENDRITQUES POUR THERAPIES AUTO-IMMUNES**  
[72] GIANNOUKAKIS, NICK, US  
[72] TRUCCO, MASSIMO M., US  
[71] UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, US  
[22] 2014-11-18  
[41] 2015-05-21  
[62] 2,929,310  
[30] US (61/905,787) 2013-11-18

[21] **3,239,324**  
[13] A1

[25] EN  
[54] **ION MODIFICATION MODIFICATION D'IONS**  
[72] ATKINSON, JONATHAN, GB  
[72] CLARK, ALASTAIR, GB  
[72] GRANT, BRUCE, GB  
[71] SMITHS DETECTION-WATFORD LIMITED, GB  
[22] 2014-08-19  
[41] 2015-02-26  
[62] 2,921,969  
[30] GB (1315145.1) 2013-08-23

[21] **3,239,365**  
[13] A1

[25] EN  
[54] **SYSTEM AND METHOD FOR HARVESTING AND PACKING MUSHROOMS**  
[54] **SYSTEME ET PROCEDE DE RECOLTE ET D'EMBALLAGE DE CHAMPIGNONS**  
[72] GLIBETIC, STEFAN, CA  
[72] MERKEL, ANTHONY COLE, CA  
[72] IDZIAK, CAITLIN, CA  
[72] PHAN, JOHN, CA  
[72] BAS, BRADLEY, CA  
[72] HAYDEN, SCOTT, CA  
[72] BERTUZZI, MATTHEW ARNO, CA  
[71] MYCIONICS INC., CA  
[22] 2022-05-02  
[41] 2022-12-03  
[62] 3,164,912  
[30] US (63/201,584) 2021-05-05

[21] **3,239,368**  
[13] A1

[25] EN  
[54] **IMMUNOLOGICAL TARGETING OF PATHOLOGICAL TAU PROTEINS**  
[54] **CIBLAGE IMMUNOLOGIQUE DE PROTEINES TAU PATHOLOGIQUES**  
[72] SIGURDSSON, EINAR M., US  
[71] NEW YORK UNIVERSITY, US  
[22] 2010-06-10  
[41] 2010-12-16  
[62] 3,120,504  
[30] US (61/185,895) 2009-06-10

[21] **3,239,386**  
[13] A1

[25] EN  
[54] **INCREASING DRUG BIOAVAILABILITY IN NALTREXONE THERAPY**  
[54]  
[72] FLANAGAN, SHAWN, US  
[72] DUNAYEVICH, EDUARDO, US  
[71] NALPROPION PHARMACEUTICALS LLC, US  
[22] 2011-12-02  
[41] 2012-06-07  
[62] 2,819,262  
[30] US (61/419,395) 2010-12-03

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[21] **3,239,396**  
[13] A1

[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  
[71] CONMED CORPORATION, US  
[22] 2019-06-06  
[41] 2019-12-26  
[62] 3,103,606  
[30] US (16/015,462) 2018-06-22

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[21] **3,239,406**  
[13] A1

[51] **Int.Cl. H04N 19/503 (2014.01)**  
[25] EN  
[54] **INTER PREDICTION-BASED  
IMAGE CODING METHOD AND  
APPARATUS**

[54] **PROCEDE ET APPAREIL DE  
CODAGE D'IMAGE BASE SUR  
UNE PREDICTION INTER**

[72] PARK, NAERI, KR  
[72] NAM, JUNGHAK, KR  
[72] JANG, HYEONGMOON, KR  
[71] LG ELECTRONICS, INC., KR  
[22] 2020-06-24  
[41] 2020-12-30  
[62] 3,145,240  
[30] US (62/865,958) 2019-06-24

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[21] **3,239,449**  
[13] A1

[25] EN  
[54] **CONTROLLABLE READING  
GUIDES AND NATURAL  
LANGUAGE GENERATION**

[54]

[72] PELEG, BARAK, IL  
[72] PADNOS, DAN, IL  
[72] MORAG, AMNON, IL  
[72] LUMBROSO, GILAD, IL  
[72] SHOHAM, YOAV, IL  
[72] GOSHEN, ORI, IL  
[72] LENZ, BARAK, IL  
[72] DAGAN, OR, IL  
[72] EINY, GUY, IL  
[71] AI21 LABS, IL  
[22] 2021-07-13  
[41] 2022-01-20  
[62] 3,176,443  
[30] US (63/051,288) 2020-07-13  
[30] US (63/084,500) 2020-09-28  
[30] US (63/086,254) 2020-10-01  
[30] US (63/187,162) 2021-05-11  
[30] US (63/187,170) 2021-05-11

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