Cómo fortalecer las iniciativas de I+D

Uso de información de patentes en el estado de la técnica

Sergio Cerda González

17 de agosto de 2020

fcfm FACULTAD DE CIENCIAS FÍSICAS Y MATEMÁTICAS UNIVERSIDAD DE CHILE
LABORATORIO DE INNOVACIÓN Y EMPRENDIMIENTO
fcfm ESCUELA DE POSTGRADO Y EDUCACIÓN CONTINUA FACULTAD DE CIENCIAS FÍSICAS Y MATEMÁTICAS UNIVERSIDAD DE CHILE
Proyecto apoyado por CORFO
Gobierno de Chile

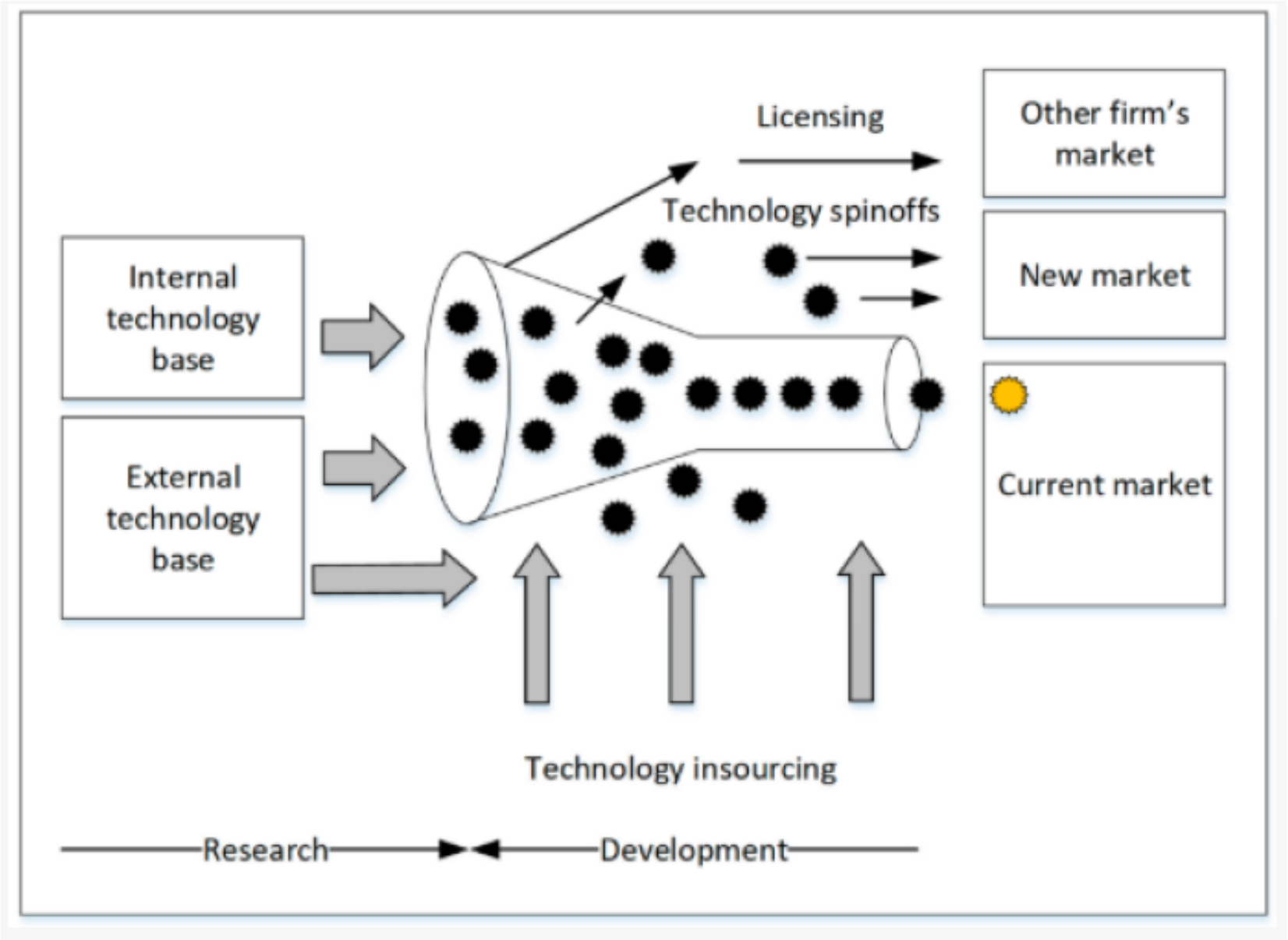
Un modelo general para la I+D

El estado de la técnica

Patentes como fuente de información

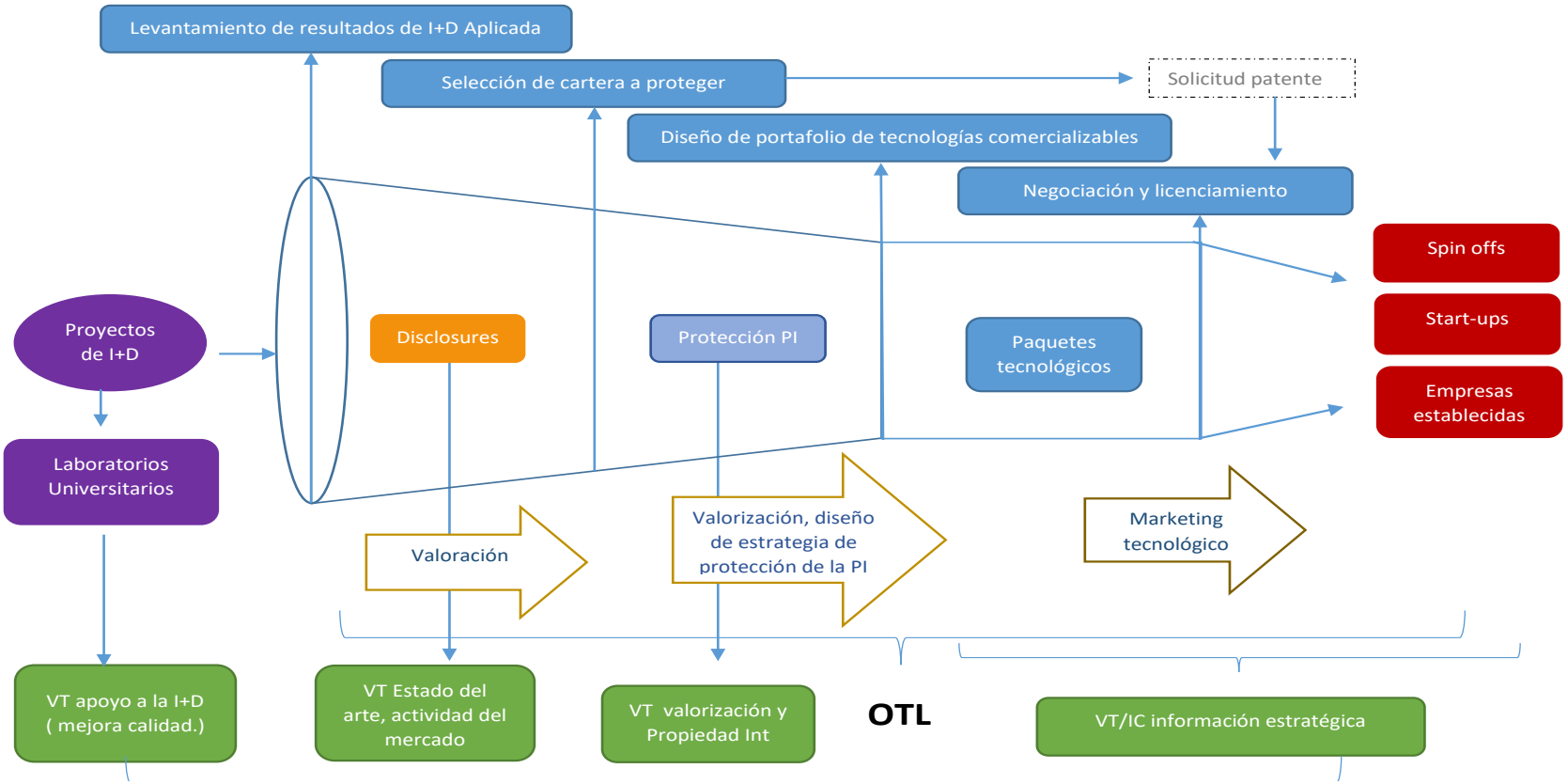
Estrategias de búsqueda

Herramientas y bases de datos



Sutopo, W. et al (2019) Accelerating a Technology Commercialization; with a Discussion on the Relation between Technology Transfer Efficiency and Open Innovation. Open Innov. Technol. Mark. Complex. 2019

Proceso de Transferencia Tecnológica



State of the Art (SOTA o SoA)

… hace referencia al estado último de la materia en términos de I+D, refiriéndose incluso al límite de conocimiento humano público sobre la materia.

ESTADO DEL ARTE… resume la situación de una determinada tecnología. Lo más innovador o reciente con respecto a un arte específico..

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ESTADO DEL ARTE: Incluye análisis de los avances de las investigaciones relacionadas a la solución de innovación y/o tecnológica propuesta, publicaciones, productos, patentes y búsqueda general. Indicar atingencia y estado, nivel de consolidación que tiene la tecnología y productos, tecnologías sustitutas.

Numerosas
bases de postulación
de proyectos I+D

El estado de la técnica, estado del arte o arte previo, comprende
TODO LO QUE SE HA PUESTO A DISPOSICIÓN DEL PÚBLICO
en cualquier lugar del mundo, mediante una publicación en forma tangible, la venta o comercialización, el uso o cualquier otro medio, antes de la fecha de presentación de una solicitud de patente o de la reivindicación de la prioridad de un derecho.

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El estado de la técnica no tiene por qué existir físicamente o estar comercialmente disponible. **Es suficiente que alguien, en algún lugar, en un momento anterior, haya descrito, mostrado o hecho algo** que contenga un uso de la tecnología que sea muy similar a su invención.

Una pintura en una cueva prehistórica puede constituir estado de la técnica. Un elemento de tecnología que tenga varios siglos puede constituir estado de la técnica. Una idea descrita previamente que de ninguna manera puede funcionar puede constituir estado de la técnica. **CUALQUIER COSA** puede ser estado de la técnica.

Oficina Española
de Patentes y Marcas

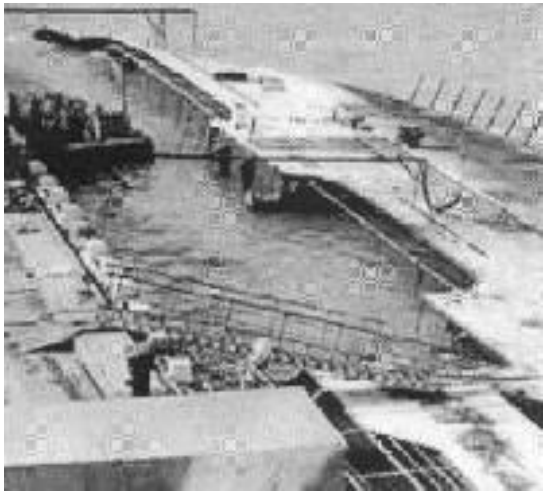
Novedad

Nivel inventivo

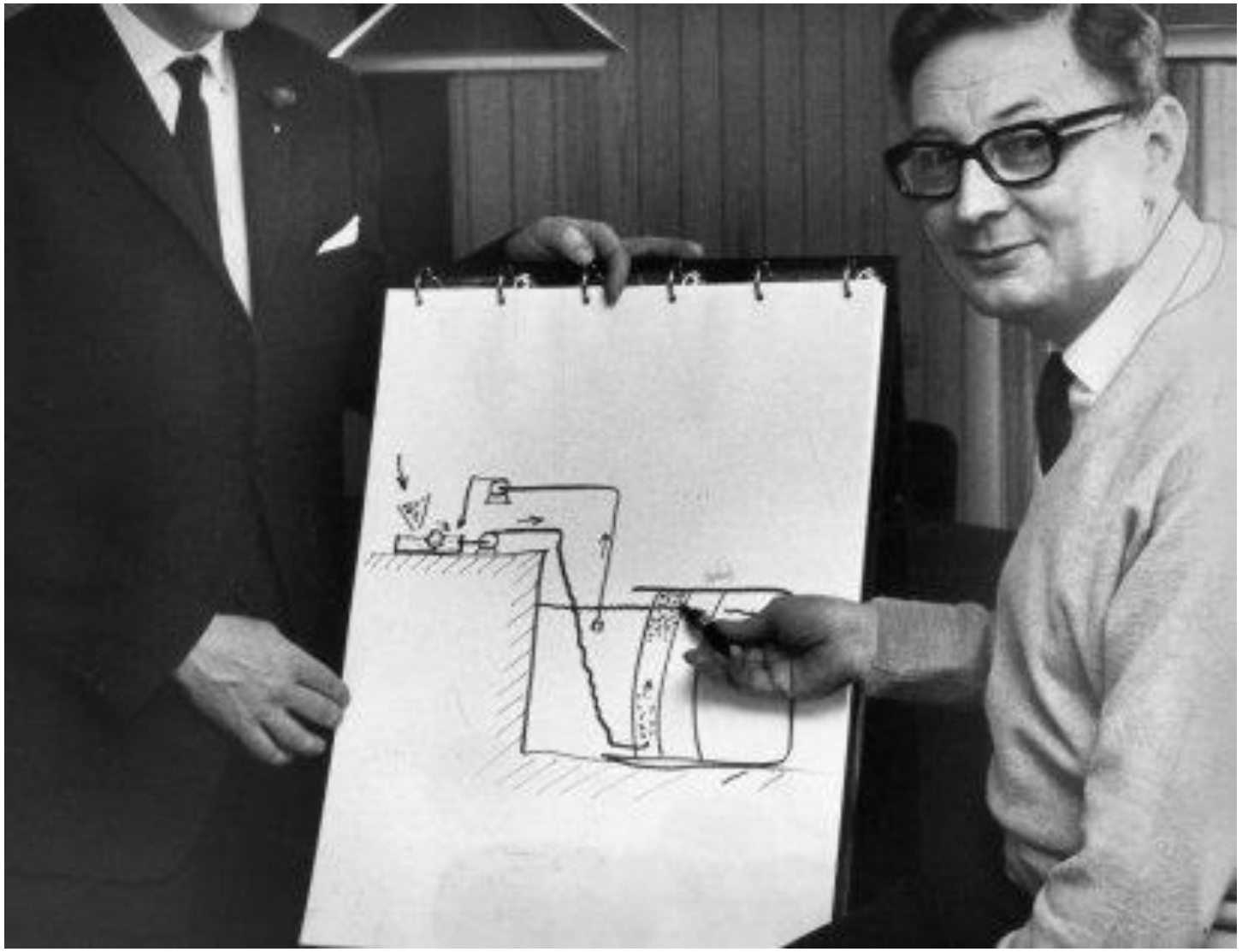
Aplicación industrial

La Ley No 19.039 en sus artículos 32, 33, 35 y 36 establece los requisitos de patentabilidad.

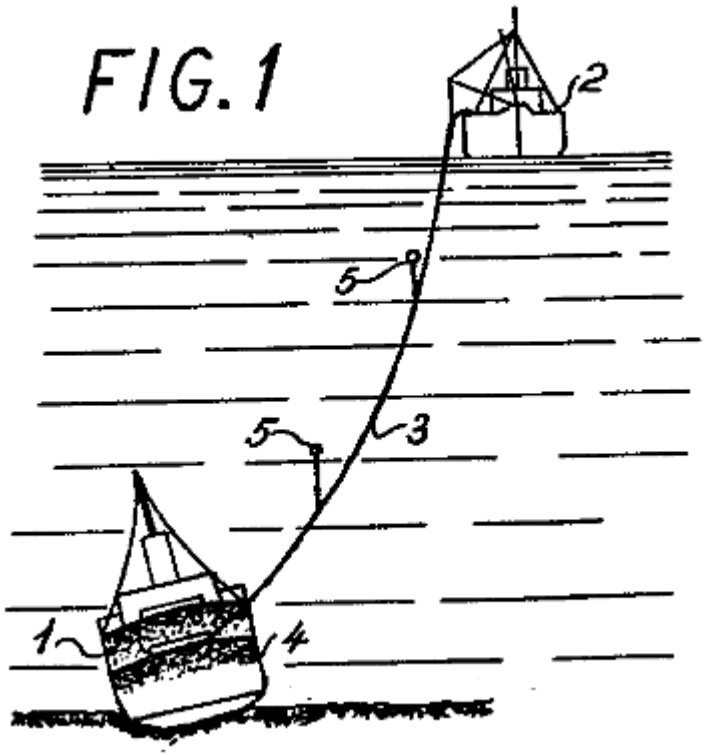
Septiembre de 1964 el buque de carga Al Kuwait se hundía en el puerto de Kuwait



Karl Kroyer un ingeniero también danés, encargado de encontrar un método para rescatar el carguero y evitarles de esa manera pagar los dos millones de dólares en los que el buque y su carga estaban asegurados.



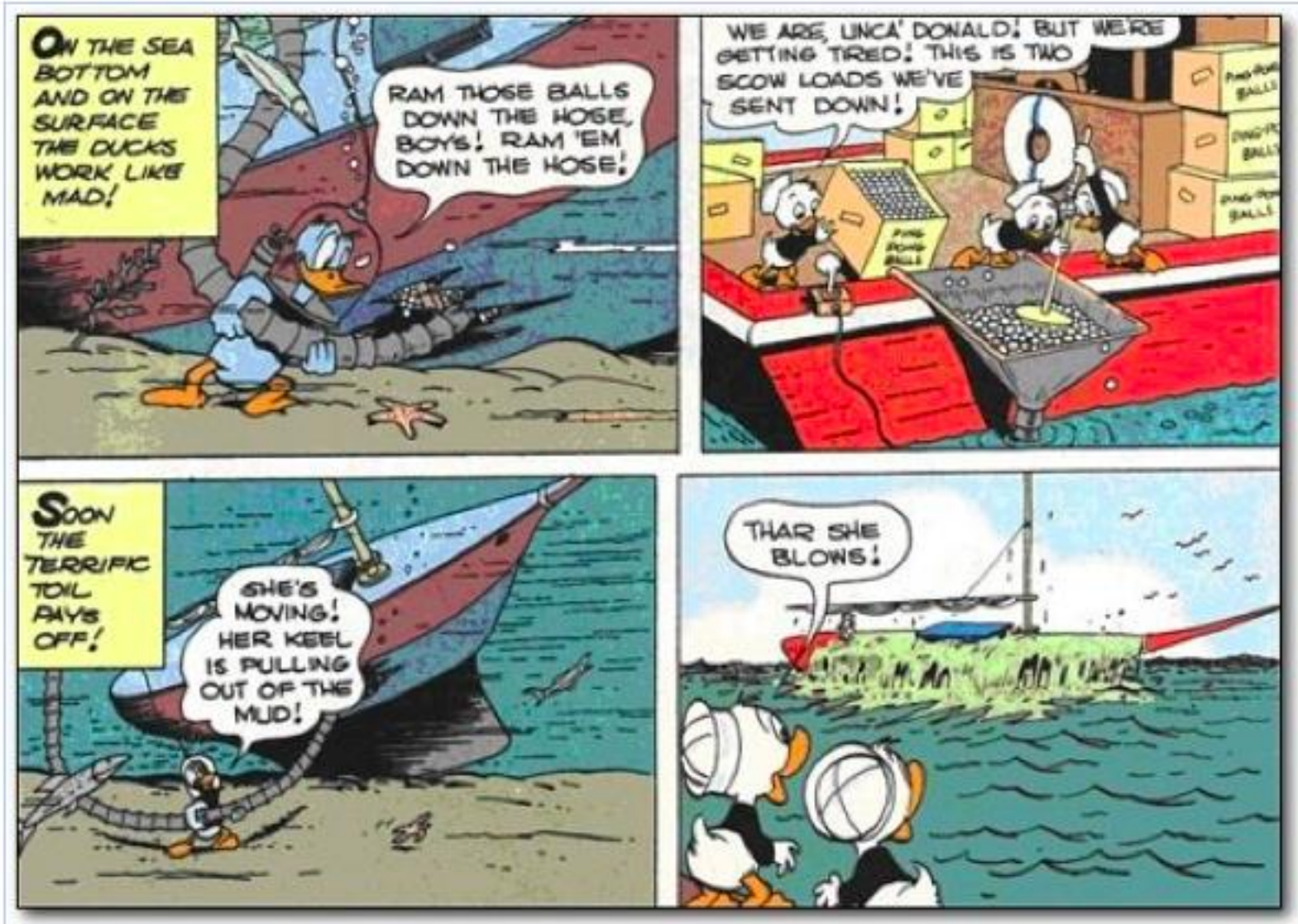
Karl Kroyer demonstrating the Al-Kuwait salvage in principle and how to bring the ship on right keel.

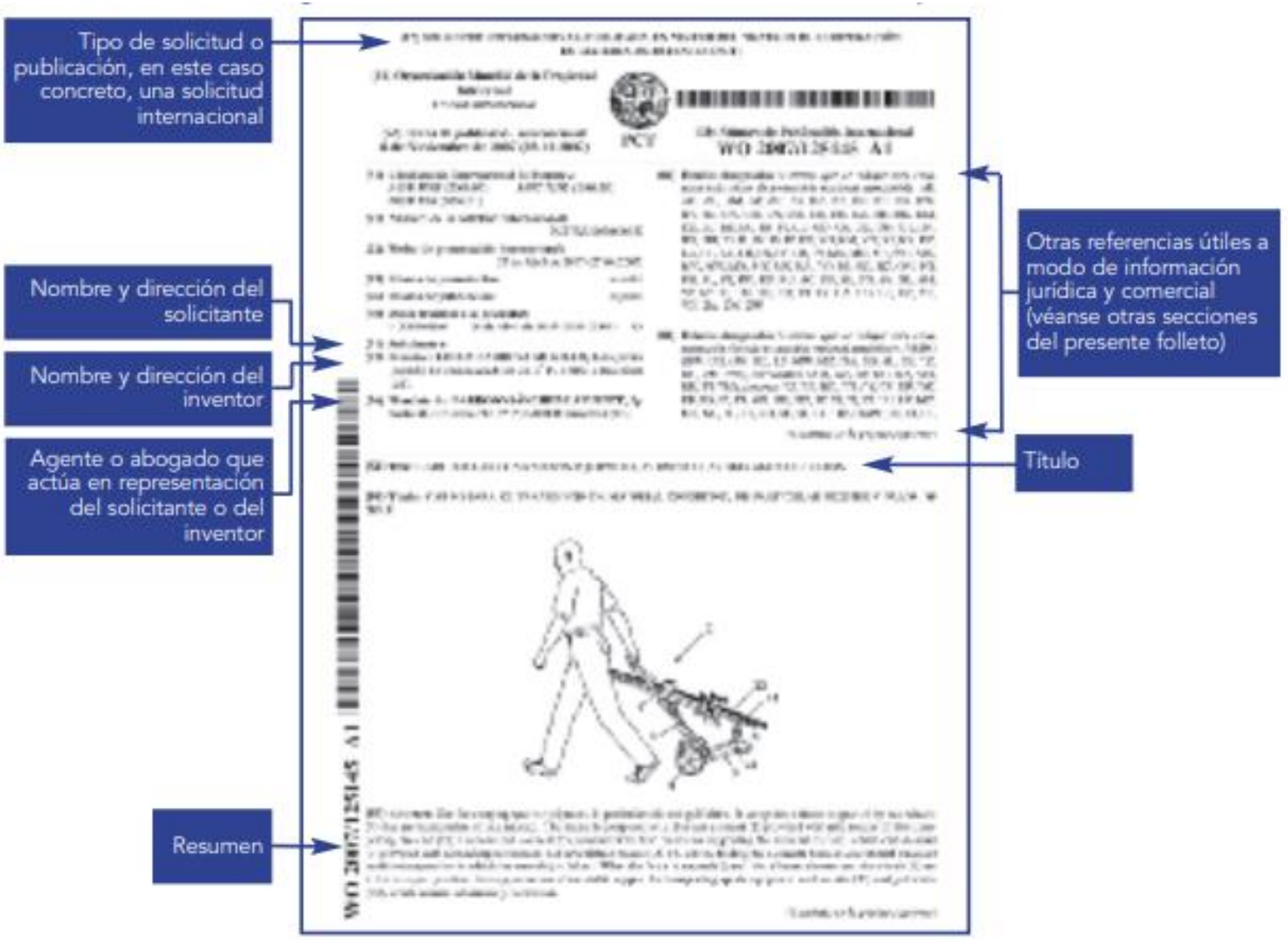


Patentes aceptadas en Alemania y UK

Sistema en que se incorporaban elementos flotantes en un buque hundido a través de un tubo …

Pero en Holanda (Países Bajos)…

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Resumen
Otras referencias útiles a modo de información jurídica y comercial (véanse otras secciones del presente folleto)
Titulo

Ejemplos de búsquedas y bases de datos

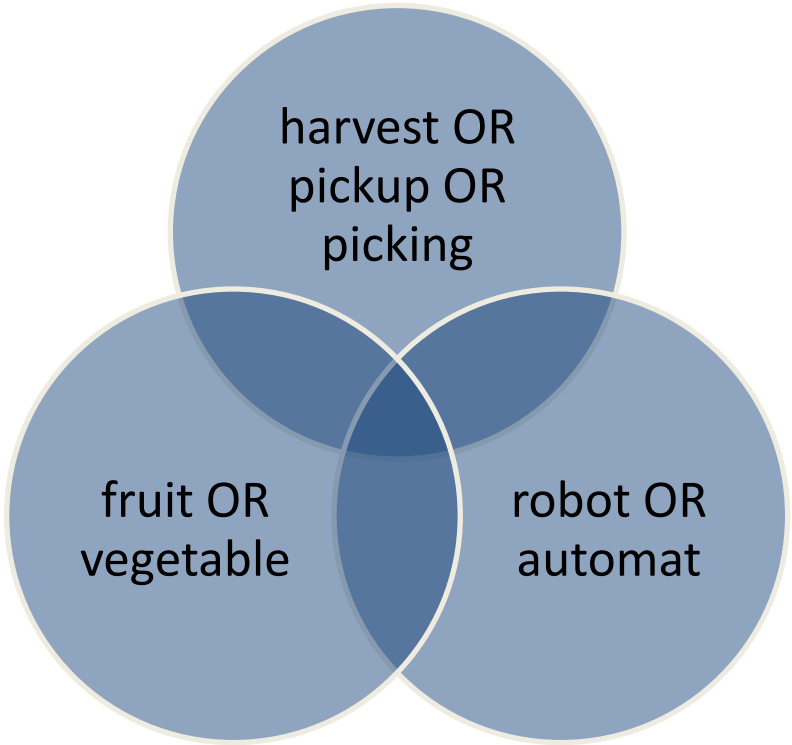
Objetivo de la Búsqueda Recuperar la información relevante relacionada con robotización en la cosecha de frutos, estableciendo cuál es el estado de desarrollo de la tecnología

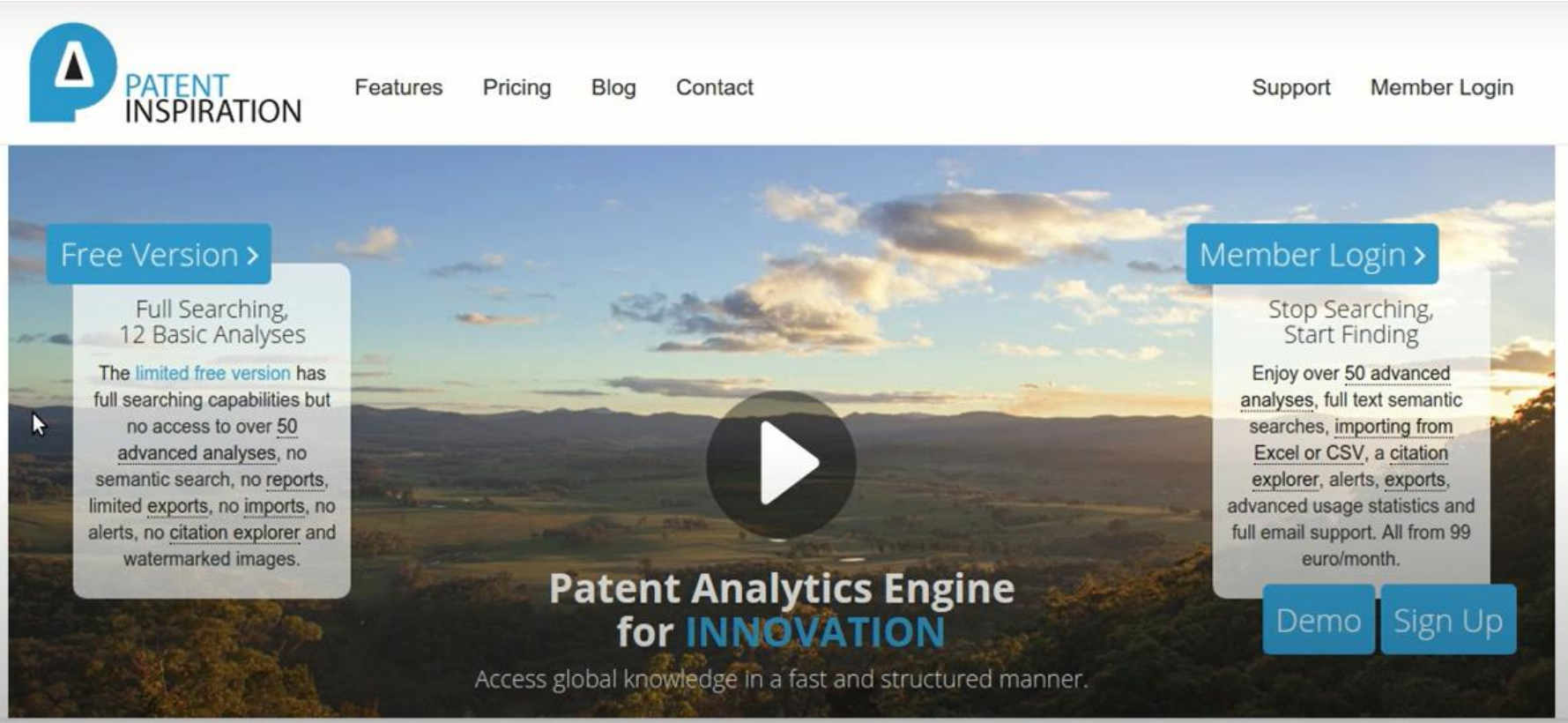
OBJETIVO/PROBLEMA	TECNOLOGÍA	ÁREA DE APLICACION
Cosecha	Robot	Frutas
Recolección	Autómata	Hortalizas
Escasez de Mano de Obra	…	…
…	…	…

OBJETIVO/PROBLEMA	TECNOLOGÍA	ÁREA DE APLICACION
I	II	III
Cosecha OR Recolección	Robot OR Autómata	Fruta OR Hortalizas

I AND II AND III

harvest OR pickup OR picking
AND
robot OR automat
AND
fruit OR vegetable





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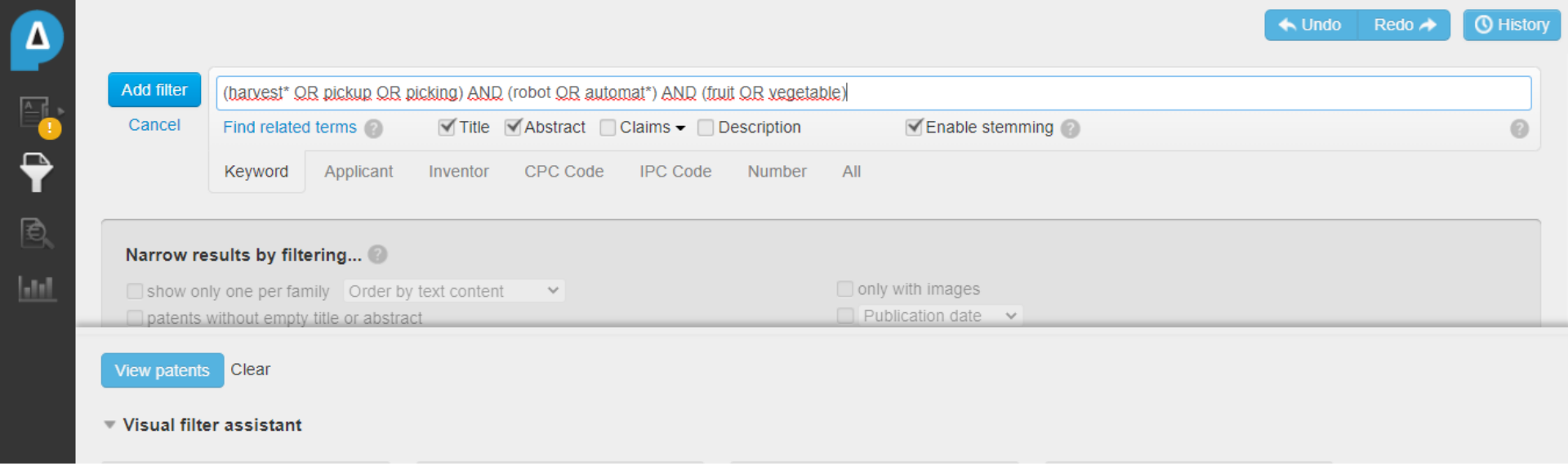
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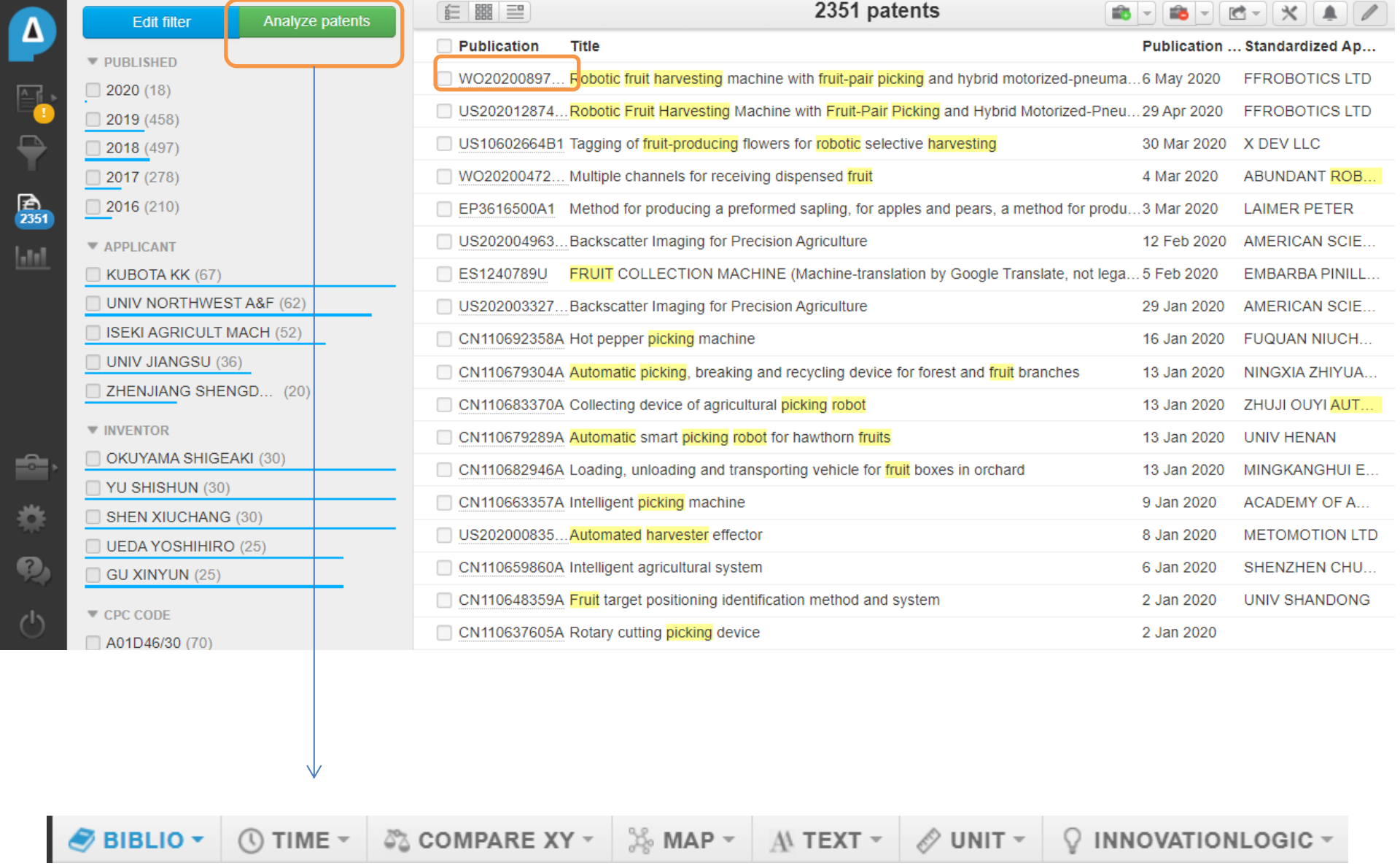
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PUBLISHED
2020 (18)
2019 (458)
2018 (497)
2017 (278)
2016 (210)
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UNIV NORTHWEST A&F (62)
ISEKI AGRICULT MACH (52)
UNIV JIANGSU (36)
ZHENJIANG SHENGD... (20)
INVENTOR
OKUYAMA SHIGEAKI (30)
YU SHISHUN (30)
SHEN XIUCHANG (30)
UEDA YOSHIHIRO (25)
GU XINYUN (25)
CPC CODE
A01D46/30 (70)
Publication
Title
Publication ...
Standardized Ap...
WO20200897... Robotic fruit harvesting machine with fruit-pair picking and hybrid motorized-pneuma... 6 May 2020 FFROBOTICS LTD
US202012874... Robotic Fruit Harvesting Machine with Fruit-Pair Picking and Hybrid Motorized-Pneu... 29 Apr 2020 FFROBOTICS LTD
US10602664B1 Tagging of fruit-producing flowers for robotic selective harvesting 30 Mar 2020 X DEV LLC
WO20200472... Multiple channels for receiving dispensed fruit 4 Mar 2020 ABUNDANT ROB...
EP3616500A1 Method for producing a preformed sapling, for apples and pears, a method for produ... 3 Mar 2020 LAIMER PETER
US202004963... Backscatter Imaging for Precision Agriculture 12 Feb 2020 AMERICAN SCIE...
ES1240789U FRUIT COLLECTION MACHINE (Machine-translation by Google Translate, not lega... 5 Feb 2020 EMBARBA PINILL...
US202003327... Backscatter Imaging for Precision Agriculture 29 Jan 2020 AMERICAN SCIE...
CN110692358A Hot pepper picking machine 16 Jan 2020 FUQUAN NIUCH...
CN110679304A Automatic picking, breaking and recycling device for forest and fruit branches 13 Jan 2020 NINGXIA ZHIYUA...
CN110683370A Collecting device of agricultural picking robot 13 Jan 2020 ZHUJI OUYI AUT...
CN110679289A Automatic smart picking robot for hawthorn fruits 13 Jan 2020 UNIV HENAN
CN110682946A Loading, unloading and transporting vehicle for fruit boxes in orchard 13 Jan 2020 MINGKANGHUI E...
CN110663357A Intelligent picking machine 9 Jan 2020 ACADEMY OF A...
US202000835... Automated harvester effector 8 Jan 2020 METOMOTION LTD
CN110659860A Intelligent agricultural system 6 Jan 2020 SHENZHEN CHU...
CN110648359A Fruit target positioning identification method and system 2 Jan 2020 UNIV SHANDONG
CN110637605A Rotary cutting picking device 2 Jan 2020
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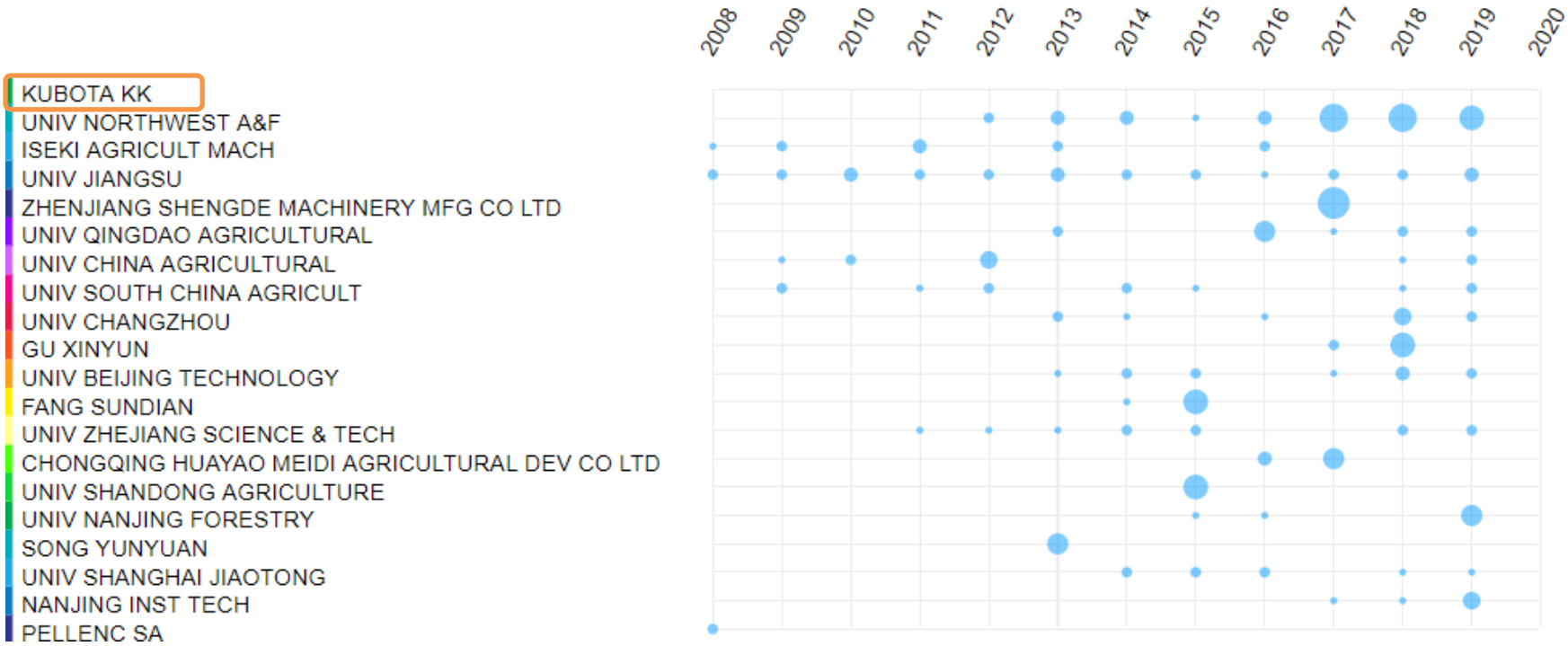
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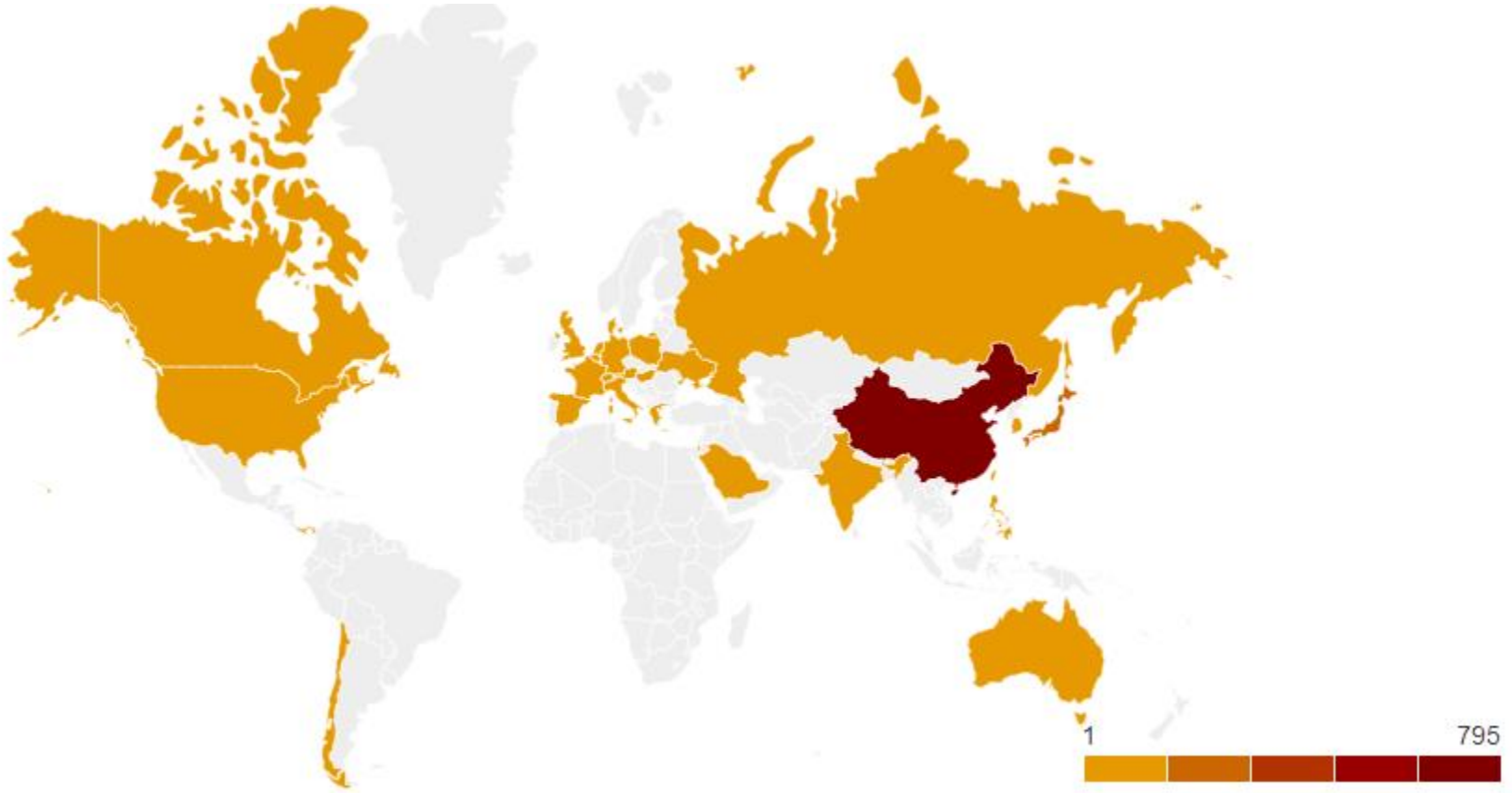
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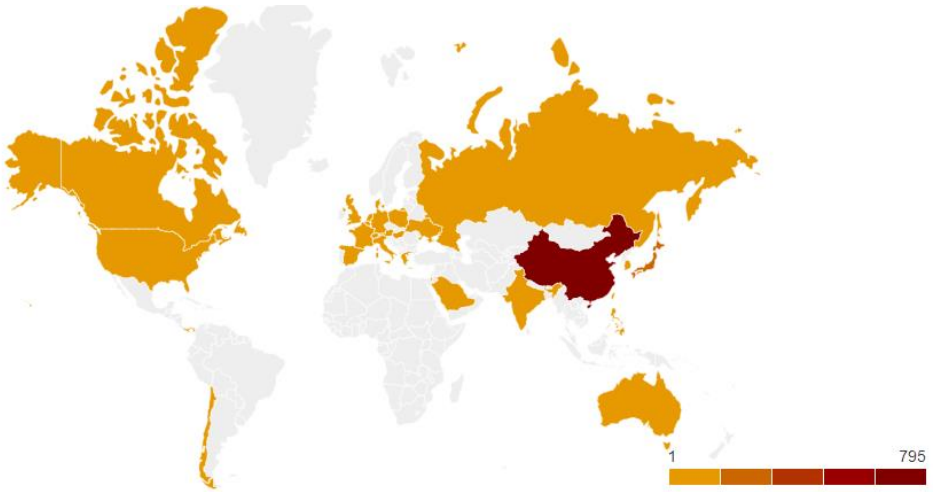

Country	Patents
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Japan	178
United States	79
France	41
Korea, Republic of	37
Spain	25
United Kingdom	18
Israel	11
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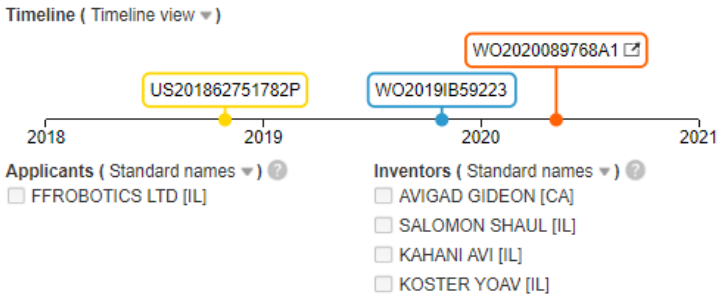
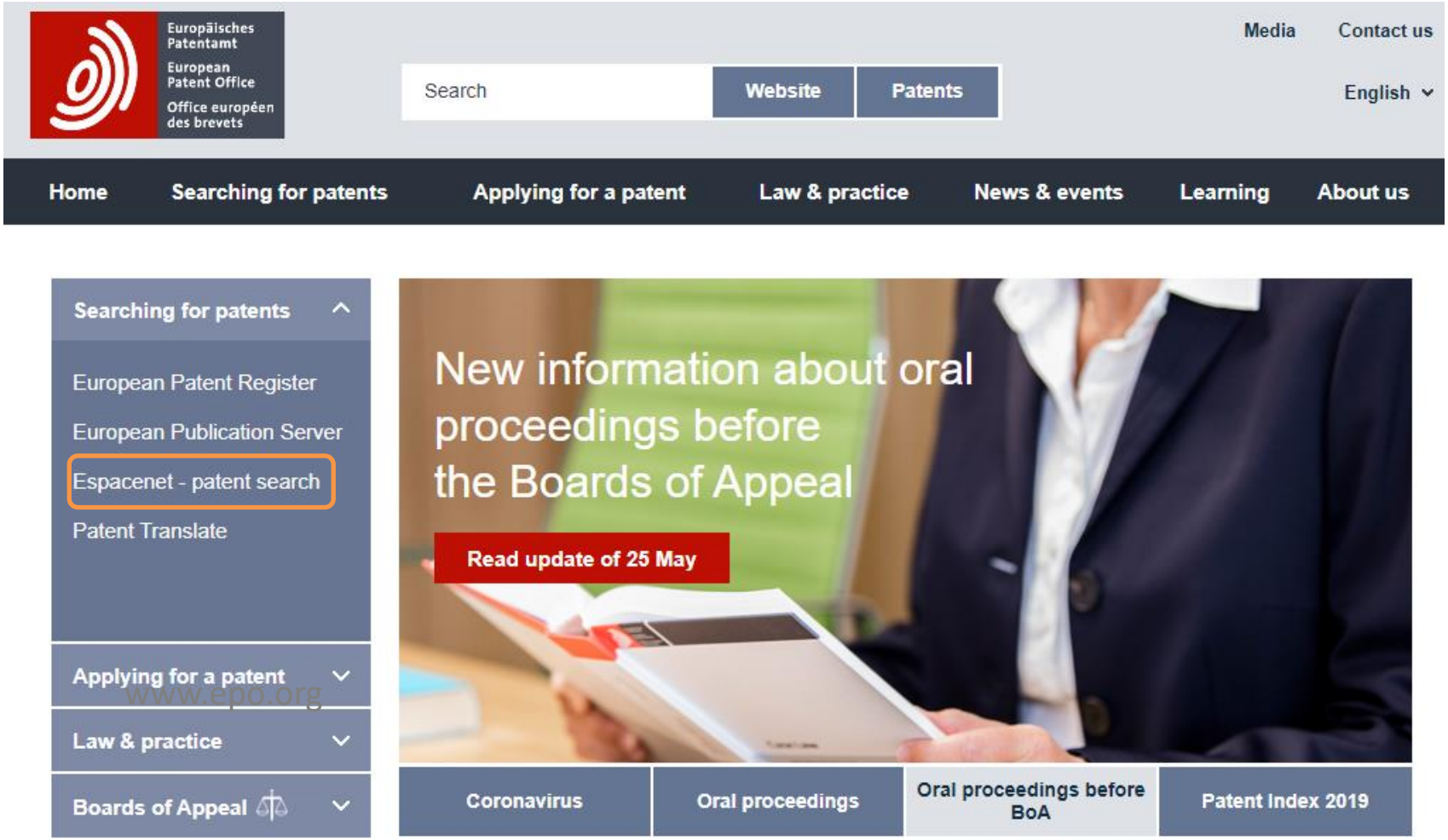
Germany	9
Taiwan, Province of China	8
Belgium	7
Switzerland	6
Russian Federation	5
Hungary	4
Virgin Islands, British	4
Netherlands	3
Greece	2
Ukraine	2

Primera patente..
WO2020089768A1
Robotic fruit harvesting machine with fruit-pair picking and hybrid motorized-pneumatic robot arms





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ROBOTIC FRUIT HARVESTING MACHINE WITH FRUIT-PAIR PICKING AND HYBRID MOTORIZED-PNEUMATIC ROBOT ARMS

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
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(43) International Publication Date
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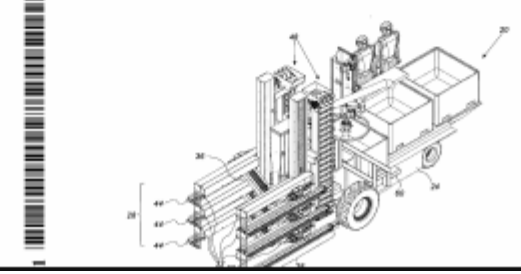
(10) International Publication Number
WO 2020/089768 A1

(54) Title: ROBOTIC FRUIT HARVESTING MACHINE WITH FRUIT-PAIR PICKING AND HYBRID MOTORIZED-PNEUMATIC ROBOT ARMS



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ROBOTIC FRUIT HARVESTING MACHINE WITH FRUIT-PAIR PICKING AND HYBRID MOTORIZED-PNEUMATIC ROBOT ARMS

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ROBOTIC FRUIT HARVESTING MACHINE WITH FRUIT-PAIR PICKING AND

HYBRID MOTORIZED-PNEUMATIC ROBOT ARMS

FIELD OF THE INVENTION

The present invention relates generally to agricultural machinery, and particularly to fruit-harvesting robots.

BACKGROUND OF THE INVENTION

Agricultural operations such as fruit harvesting traditionally involve intensive manual labor. Nevertheless, various solutions for automating these operations have been proposed. For example, Sarig provides a review of several fruit-picking robotics solutions, in"Robotics of Fruit Harvesting: A State-of-the-art Review," Journal of Agricultural Engineering Research, volume 54, 1993. U.S. Patent 3,646,741 describes a crop harvesting apparatus that is particularly suited for picking of tree-borne crops such as fruit and nuts.

Peterson et al. describe a robotic bulk apple harvester, in"A Systems Approach to Robotic Bulk Harvesting of Apples," Transactions of the American Society of Agricultural Engineers, volume 42, issue 4, 1999. PCT International Publication WO 2006/063314 describes an agricultural robot system for harvesting, pruning, culling, weeding, measuring and managing of agricultural crops.

Beaten et al. describe an autonomous fruit picking machine, in"Autonomous Fruit Picking Machine: A F
Conference on Field and Service Robotics - FSR 2007, Chamonix, France, 2007. Scarfe et al. describ
in"Development of an Autonomous Kiwifruit Picking Robot," Proceedings of the 4th

International Conference on Autonomous Robots and Agents, February, 2009.

U.S. Patent 7,765,780 describes a robot that maps a field to determine plant locations, number and siz
positions of fruit on each plant, and can then plan and implement an efficient picking plan for itself or a
robotic device consisting of a manipulator, end-effector and image-based vision servo control system fi
Control of an Apple Harvesting Robot," Biosystems Engineering, volume 110, 2011.

WO2020089768 (A1)
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Claims
Mosaics
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4 documents cited in relation to **WO2020089768 (A1)**

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International search citation

1. MULTI-ROBOT CROP HARVESTING MACHINE

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KAHANI AVI [IL]	FFMH-TECH LTD [IL]	A01D46/30 B25J19/023 B25J9/0084 (+11)	A01D46/30 B25J9/00 B25J9/16 (+2)	US2016243696 (A1) 2016-08-25 US9475189 (B2) 2016-10-25	2015-02-22

2. Agricultural robot system and method

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KOSELKA HARVEY [US] WALLACH BRET [US]	VISION ROBOTICS CORPORATION	A01B51/026 A01B79/005 A01D46/30 (+4)	A01D34/00 A01D46/30	US2006213167 (A1) 2006-09-28 US7854108 (B2) 2010-12-21	2003-12-12

3. DETECTOR FOR HARVESTING OBJECT OF FRUIT VEGETABLE

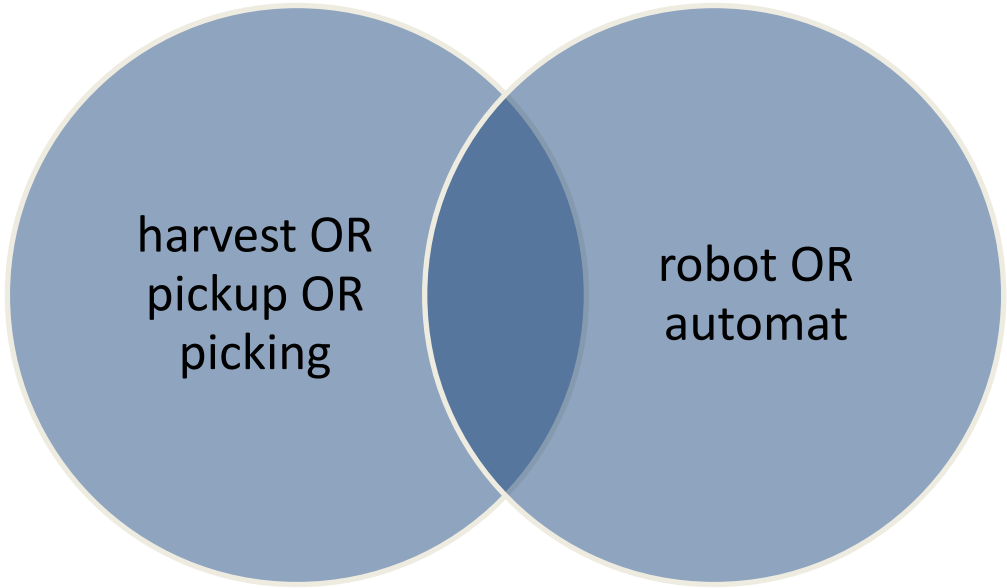
Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
YAMAZAKI YUICHI	KUBOTA KK	A01D46/30	A01D46/00 A01D46/24 B25J15/08 (+7)	JPH08103139 (A) 1996-04-23 JP3506779 (B2) 2004-03-15	1994-10-07

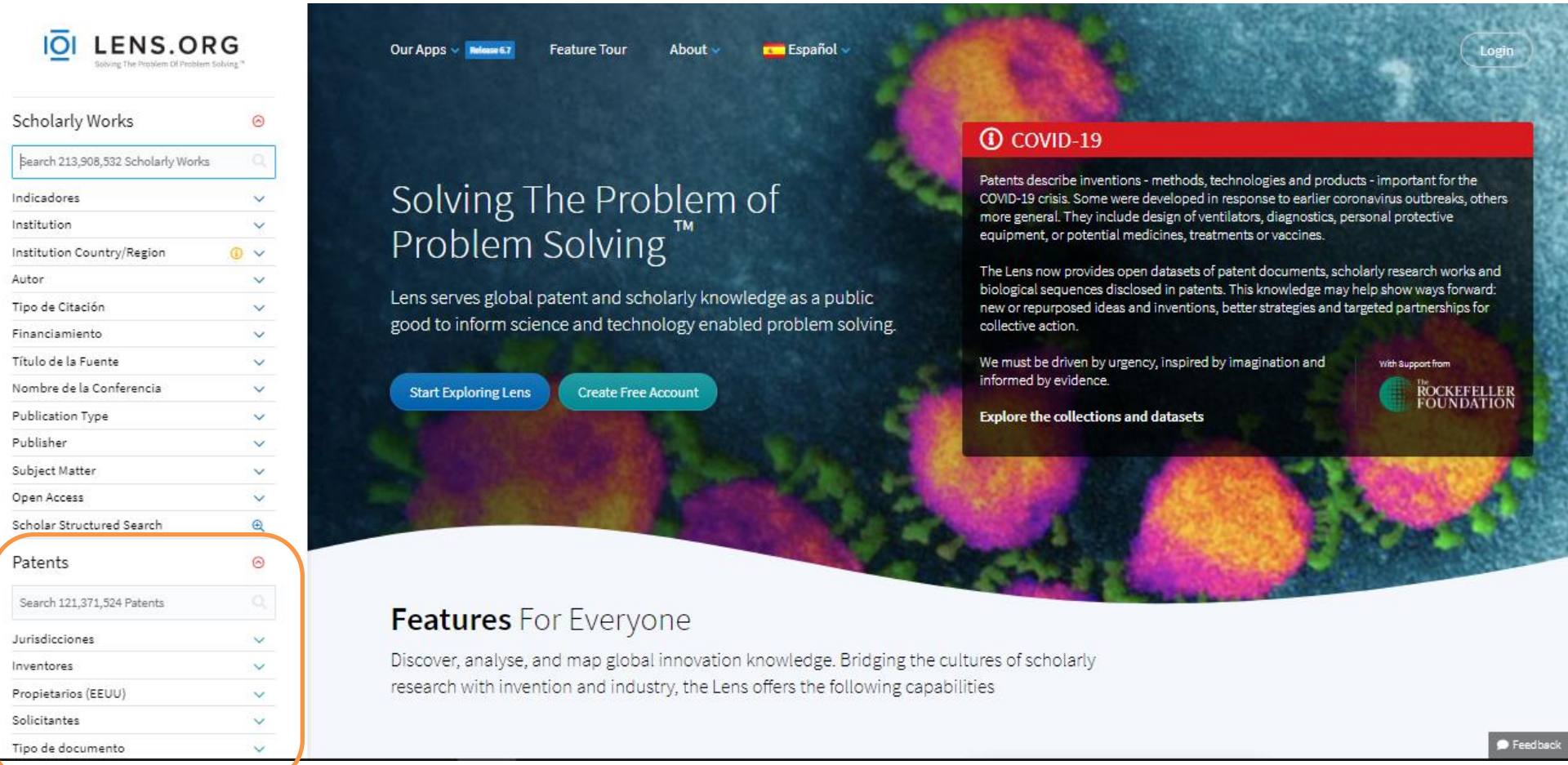
4. FRUIT HARVESTING ROBOT

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KINOSHITA KEIICHIRO MATSUOKA MINORU (+3)	ISEKI AGRICULT MACH UNIV EHIME		A01D46/30 G06T1/00	JP2008206438 (A) 2008-09-11 JP5119392 (B2) 2013-01-16	2007-02-26

CAMBIO DE ESTRATEGIA

harvest OR pickup OR
picking
AND
robot OR automat

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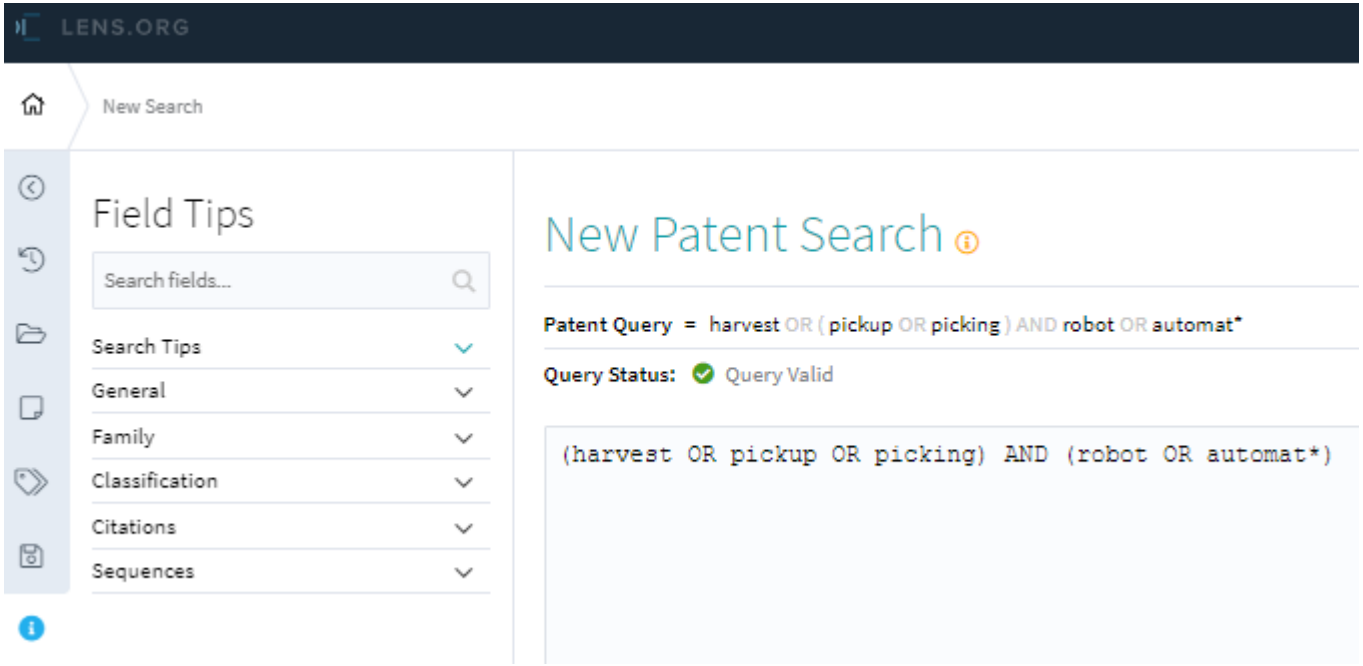
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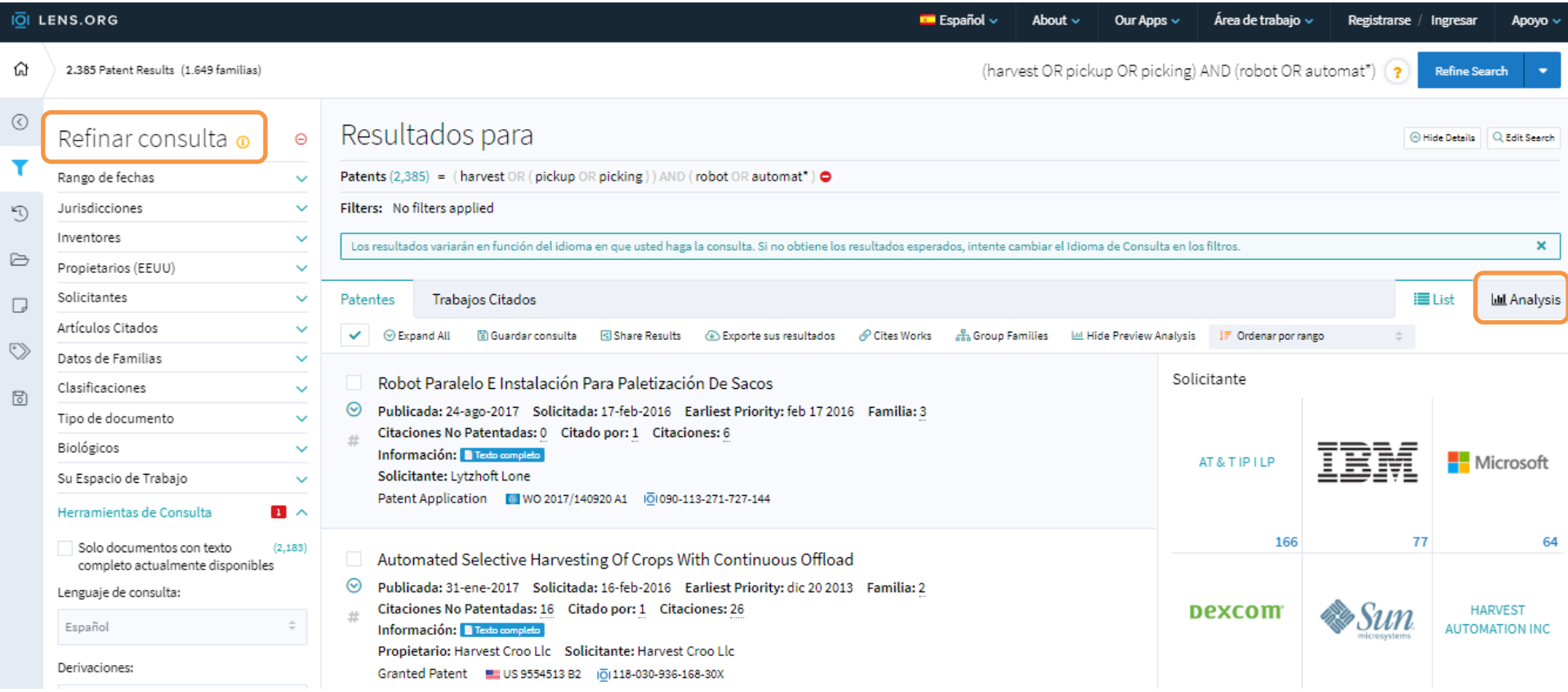
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Publicada: 24-ago-2017 Solicitada: 17-feb-2016 Earliest Priority: feb 17 2016 Familia: 3
Citaciones No Patentadas: 0 Citado por: 1 Citaciones: 6
Información: Texto completo
Solicitante: Lytzhoft Lone
Patent Application WO 2017/140920 A1 090-113-271-727-144
Automated Selective Harvesting Of Crops With Continuous Offload
Publicada: 31-ene-2017 Solicitada: 16-feb-2016 Earliest Priority: dic 20 2013 Familia: 2
Citaciones No Patentadas: 16 Citado por: 1 Citaciones: 26
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Propietario: Harvest Croo Llc Solicitante: Harvest Croo Llc
Granted Patent US 9554513 B2 118-030-936-168-30X
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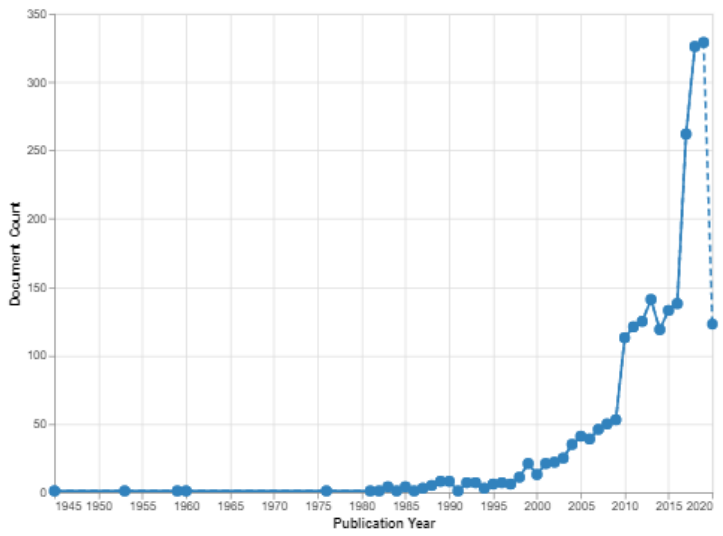

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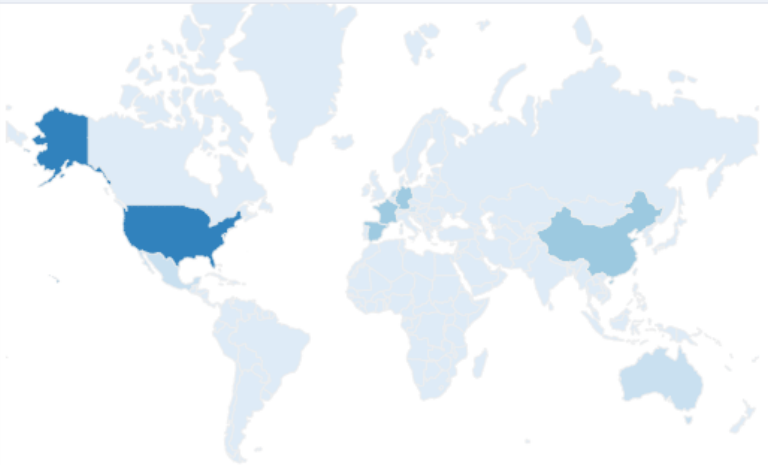

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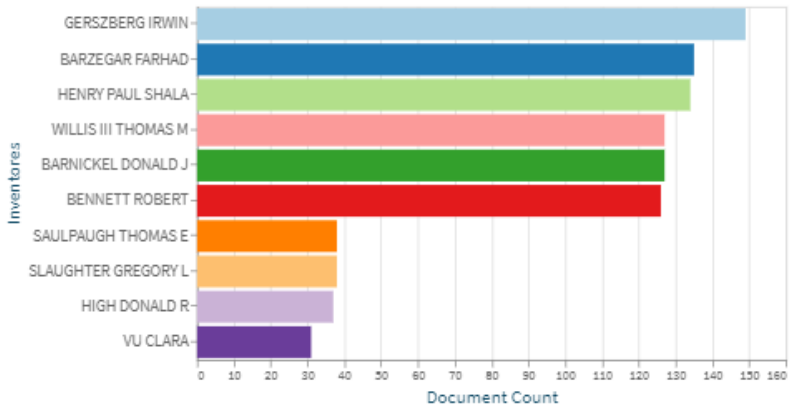

Clasificaciones CCP

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30 A61B5/14532	32 B25J9/1697	29 G06F16/951	30 G06F3/016
31 G06Q10/087	46 G06Q30/02	31 G06Q30/06	34 G06Q40/00
30 H04L29/06	33 H04L69/329		

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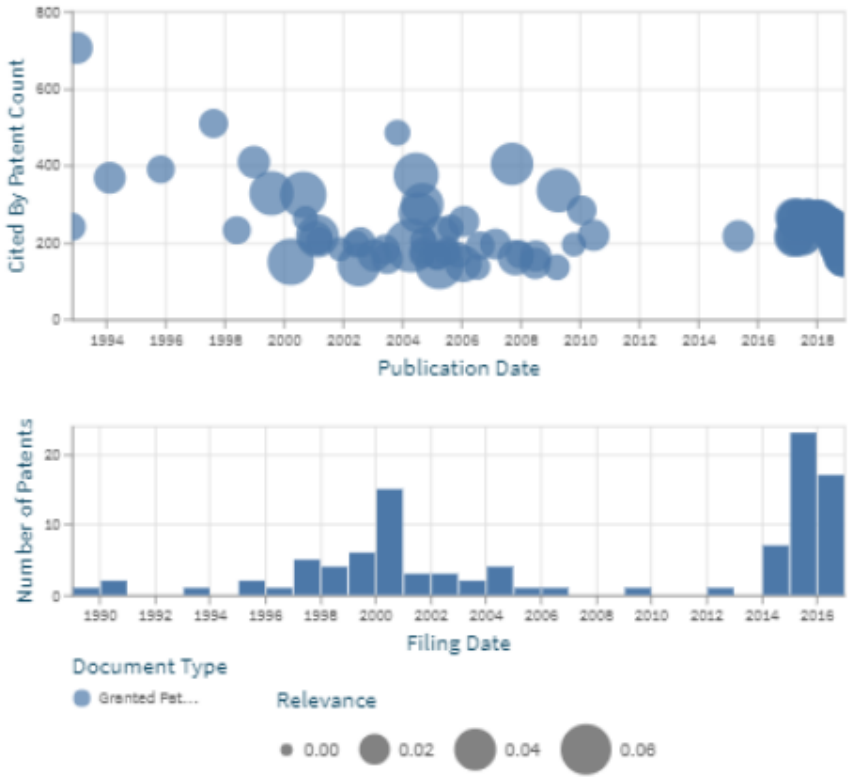

Shuji Nakamura

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APPLICANT

- UNIV CALIFORNIA (355)
- NAKAMURA SHUJI (164)
- DENBAARS STEVEN P (107)
- SPECK JAMES S (84)
- JAPAN SCIENCE & TE... (49)

INVENTOR

- NAKAMURA SHUJI (542)
- DENBAARS STEVEN P (316)
- SPECK JAMES S (237)
- TYAGI ANURAG (49)
- FARRELL ROBERT M (44)

CPC CODE

- H01L21/0254 (157)
- H01L33/32 (153)

Publication	Title	Publication D...	Standardized Applic...
US10644213B1	Filament LED light bulb	4 May 2020	UNIV CALIFORNIA
US10593854B1	Transparent light emitting device with light emitting diodes	16 Mar 2020	UNIV CALIFORNIA
US2019374089A1	Flexible tube insertion apparatus and flexible tube insertion method	11 Dec 2019	OLYMPUS CORP
US10495268B1	High intensity solid state white emitter which is laser driven and uses single crystal, ceramic or po...	2 Dec 2019	UNIV CALIFORNIA
US2019357940A1	Puncturing instrument and puncturing device	27 Nov 2019	TRANSELL CO LTD
US2019341206A1	Reaction force generating member for a key switch device	6 Nov 2019	FUJITSU COMPONE...
US10454010B1	Transparent light emitting diodes	21 Oct 2019	UNIV CALIFORNIA
US2019273194A1	Transparent light emitting diodes	4 Sep 2019	UNIV CALIFORNIA
US2019207043A1	Methods for fabricating iii-nitride tunnel junction devices	3 Jul 2019	UNIV CALIFORNIA
US2019165213A1	Iii-nitride tunnel junction light emitting diode with wall plug efficiency of over seventy percent	29 May 2019	UNIV CALIFORNIA
US2019099064A1	Flexible tube insertion apparatus	3 Apr 2019	OLYMPUS CORP
US2019074404A1	Hybrid growth method for iii-nitride tunnel junction devices	6 Mar 2019	UNIV CALIFORNIA
US10205300B1	Gallium and nitrogen containing laser diode dazzling devices and methods of use	11 Feb 2019	SORAA LASER DIO...
US2019030545A1	Blood component separator	30 Jan 2019	TRANSELL CO LTD
US2018374699A1	Iii-nitride tunnel junction with modified p-n interface	26 Dec 2018	UNIV CALIFORNIA
US2018303313A1	Flexible tube insertion apparatus	24 Oct 2018	OLYMPUS CORP
US2018303319A1	Flexible tube insertion apparatus	24 Oct 2018	OLYMPUS CORP
US2018281756A1	Vehicle operation pedal device	3 Oct 2018	TOYOTA TEKKO KK
US2018263467A1	Flexible tube insertion apparatus	19 Sep 2018	OLYMPUS CORP

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ScienceDirect
Journal of Microbiological Methods 68 (2007) 605–612
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A new device for rapid evaluation of biofilm formation potential by bacteria

Patrick Chavant [a], Brigitte Gaillard-Martinie [b], Régine Talon [c], Michel Hébraud [c,*], Thierry Bernardi [a]

[a] *BioFilm Control SAS, Biopôle Clermont-Ferrand — Limagne, F-63360 St Beauzire, France*
[b] *Institut National de la Recherche Agronomique, site de Theix, UR454 Microbiologie, Plate-Forme Microscopie Electronique, F-63122 Saint-Genès Champanelle, France*
[c] *Institut National de la Recherche Agronomique, site de Theix, UR454 Microbiologie, Equipe Qualité et Sécurité des Aliments, F-63122 Saint-Genès Champanelle, France*

Received 27 July 2006; received in revised form 7 November 2006; accepted 20 November 2006
Available online 9 January 2007

Abstract

This work describes the implementation of a new assay named the BioFilm Ring Test® to evaluate the ability of bacteria to form biofilms. This assay is based on the immobilisation (or not) of magnetic beads embedded by bacterial aggregates or mats (patented concept). It is realised on modified polystyrene 96-wells microtiter plates with individual 8-wells slides. The kinetic of biofilm formation of four bacterial species, *Listeria monocytogenes*, *Escherichia coli*, *Staphylococcus carnosus* and *Staphylococcus xylosus* was evaluated with this new device by comparison with

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Application number: DE201310112935

Priority number: WO1995US15925

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Publication date: 2014-12-31 or 20141231

Enter name of one or more persons/organisations

Applicant(s): Institut Pasteur

Biofilm Control

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	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
1. METHOD FOR DETECTING AND MONITORING THE FORMATION OF BIOFILMS	BOUDAREL HÉLOÏSE [FR] MATHIAS JEAN-DENIS [FR] (+4)	BIOFILM CONTROL [FR] UNIV CLERMONT AUVERGNE [FR] (+3)	C12Q1/04 G16H10/40 G16H30/40	C12Q1/04 G16H10/40 G16H30/40 (+1)	WO2020109198 (A1) 2020-06-04	2018-11-30
2. USE OF CLOXACILLIN TO INHIBIT/PREVENT BIOFILM FORMATION	PROVOT CHRISTIAN [FR] BERNARDI THIERRY [FR]	BIOFILM CONTROL [FR]	A61K31/431 A61P31/04	A61K31/431 A61P31/04	CA3079023 (A1) 2019-04-25	2017-10-18
3. METHOD FOR CLASSIFYING MICROORGANISMS	DI DOMENICO ENEA GINO [IT] ENSOLI FABRIZIO [IT] (+3)	BIOFILM CONTROL [FR]	G01N11/10 G01N2011/147 G01N33/56911 (+1)	G01N11/10 G01N33/569 G01N35/00	US2019120836 (A1) 2019-04-25	2016-01-15

Bibliographic data: WO2020109198 (A1) — 2020-06-04

METHOD FOR DETECTING AND MONITORING THE FORMATION OF BIOFILMS

Page bookmark	WO2020109198 (A1) - METHOD FOR DETECTING AND MONITORING THE FORMATION OF BIOFILMS
Inventor(s):	BOUDAREL HÉLOÏSE [FR]; MATHIAS JEAN-DENIS [FR]; BLAYSAT BENOÎT [FR]; GREDIAC MICHEL [FR]; BADEL-BERCHOUX STÉPHANIE [FR]; PROVOT CHRISTIAN [FR] +
Applicant(s):	BIOFILM CONTROL [FR]; UNIV CLERMONT AUVERGNE [FR]; CENTRE NAT RECH SCIENT [FR]; SIGMA CLERMONT [FR]; INSTITUT NATIONAL DE RECH POUR LAGRICULTURE LALIMENTATION ET LENVIRONNEMENT [FR] +
Classification:	- international: *C12Q1/04; G16H10/40; G16H30/40; G16H50/20*
	- cooperative: C12Q1/04 (EP); G16H10/40 (EP); G16H30/40 (EP)
Application number:	WO2019EP82345 20191125 Global Dossier
Priority number(s):	EP20180306593 20181130

Abstract of WO2020109198 (A1)

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The present invention relates to a method for detecting and/or monitoring and/or characterising the formation of a biofilm. The present invention also relates to a device for detecting and/or characterising the formation of a biofilm which is capable of implementing the method. The present invention is particularly used in the fields of analysis, biological and enzymological research, and in the pharmaceutical and/or medical fields.

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International search NPL citation

1. *In Situ* Mapping of the Mechanical Properties of Biofilms by Particle-tracking Microrheology

Author:	Publication data:	CPC:	Source information:	Publication info:
Su C Chew Scott A Rice Staffan Kjelleberg Liang Yang	Journal of Visualized Experiments		Nr:106	XP055661035

2. The BioFilm Ring Test: a Rapid Method for Routine Analysis of Pseudomonas aeruginosa Biofilm Formation Kinetics

Author:	Publication data:	CPC:	Source information:	Publication info:
Elodie Olivares Stéphanie Badel-Berchoux Christian Provot Benoît Jaulhac Gilles Prévost Thierry Bernardi François Jehl	JOURNAL OF CLINICAL MICROBIOLOGY, 20160301 American Society for Microbiology, US		Vol:54,Nr:3,Page(s):657 - 661	XP055661093

Literature cited by the applicant

3. A new device for rapid evaluation of biofilm formation potential by bacteria

Author:	Publication data:	CPC:	Source information:	Publication info:
Chavant Gaillard-Martinie P Talon B	JOURNAL OF MICROBIOLOGICAL METHODS, 20070216 ELSEVIER, AMSTERDAM, NL		Vol:68,Nr:3,Page(s):605 - 612	XP005892101

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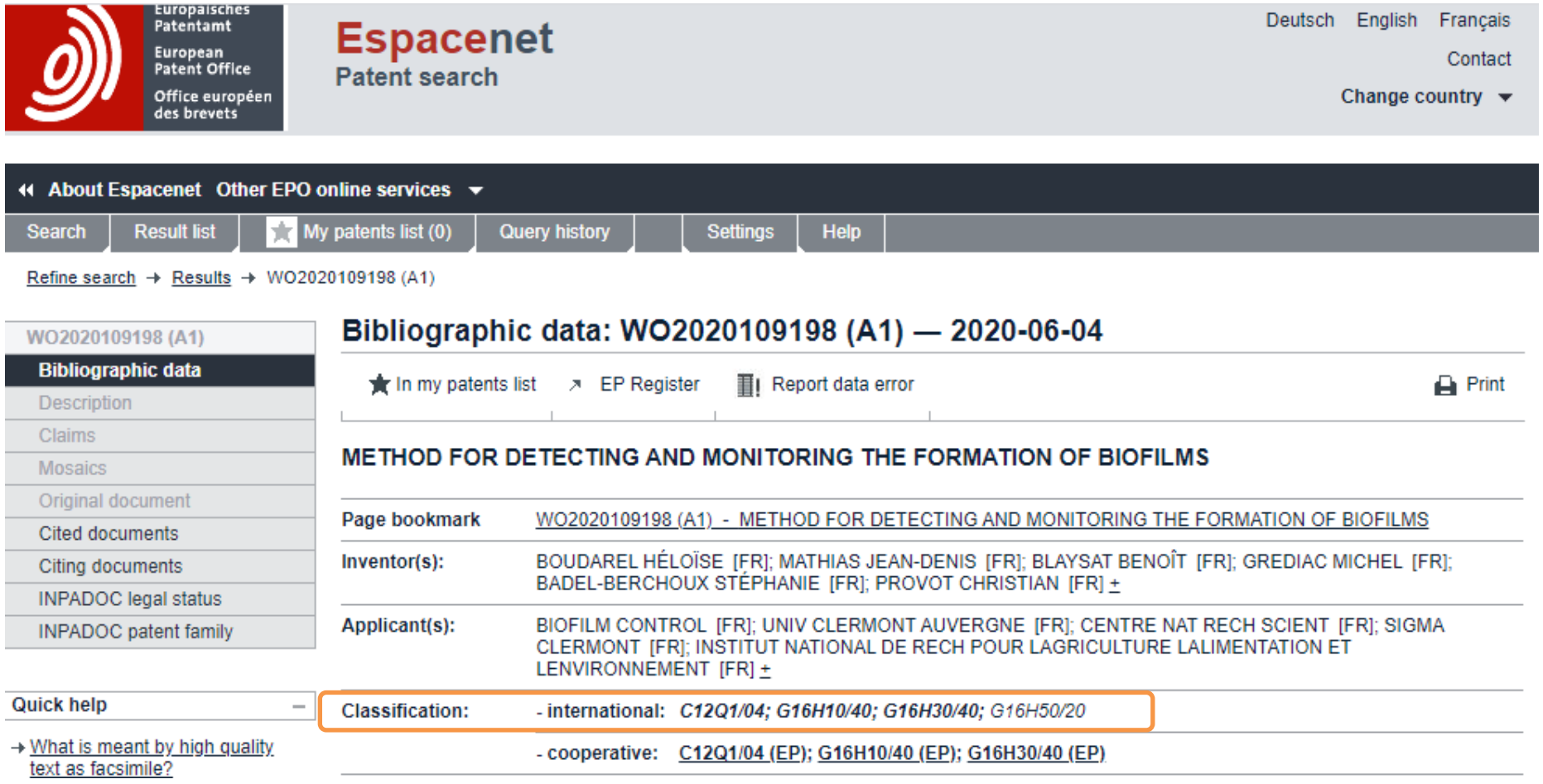

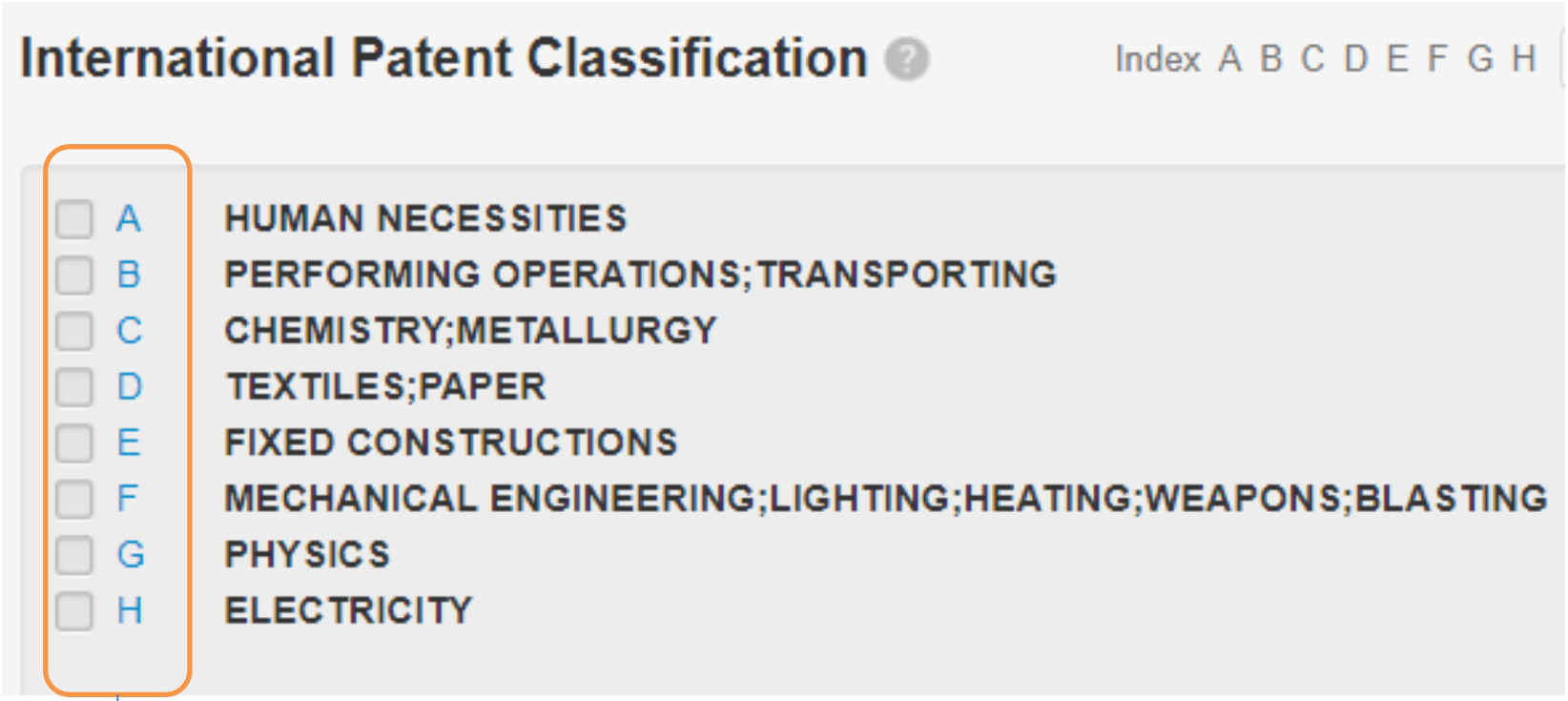

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International Patent Classification

Index A B C D E F G H Search code or keyword

- A **HUMAN NECESSITIES**
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- A42B **HATS;HEAD COVERINGS**(headbands, head-scarves A41D20/00, A41D23/00)
- A42B3/00 **Helmets;Helmet covers**(hoods as protection against chemical agents or for use at high altitudes A62B17/00)(gas helmets A62B18/04)(swimming helmets A63B33/00)(defence protection helmets F41H1/04)
- A42B3/04 Parts, details or accessories of helmets
- A42B3/18 Face protection devices
- A42B3/20 Face guards, e.g. for ice hockey(A42B3/22 takes precedence)
- A42B3/22 Visors
- A42B3/24 with means for avoiding fogging or misting
- A42B3/26 with cleaning means, e.g. wipers

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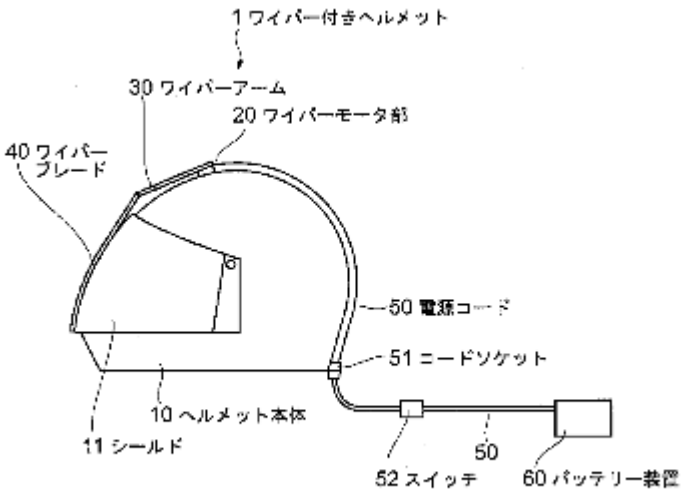

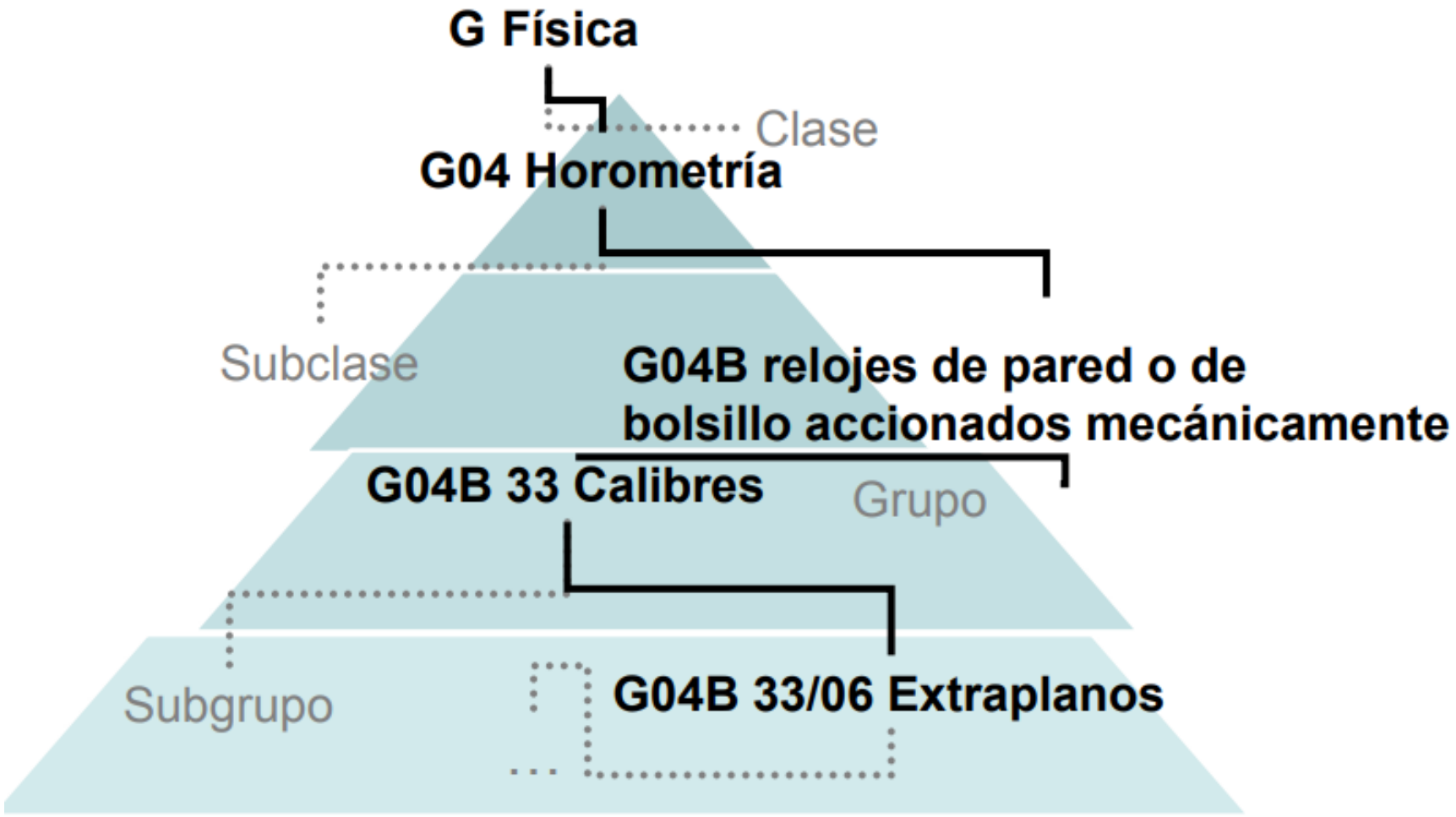

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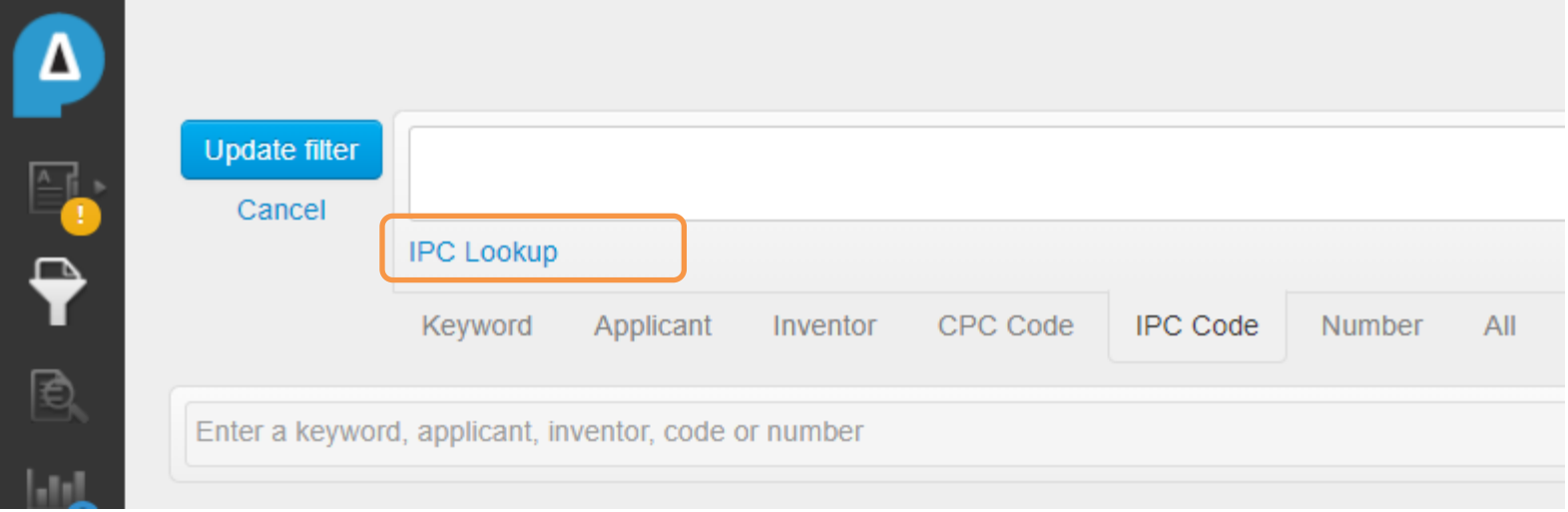

International Patent Classification

Index A B C D E F G H photovoltaic

- H01L31/18 Processes or apparatus specially adapted for the manufacture or treatment of these devices or of parts thereof
- H01L31/042 PV modules or arrays of single PV cells(supporting structures for PV modules H02S20/00)
- H02J3/38 Arrangements for parallelly feeding a single network by two or more generators, converters, or transformers
- H01L31/048 Encapsulation of modules
- H02J7/35 with light sensitive cells
- H01L31/04 adapted as photovoltaic [PV] conversion devices(testing thereof during manufacture H01L21/66)(testing thereof after manufacture H02S50/10)
- H02S20/30 Supporting structures being movable or adjustable, e.g. for angle adjustment
- H01L31/0224 Electrodes
- H02S20/32 specially adapted for solar tracking
- H01L31/052 Cooling means directly associated or integrated with the PV cell, e.g. integrated Peltier elements for active cooling or heat sinks directly associated with the PV cells(cooling means in combination with the PV module H02S40/42)

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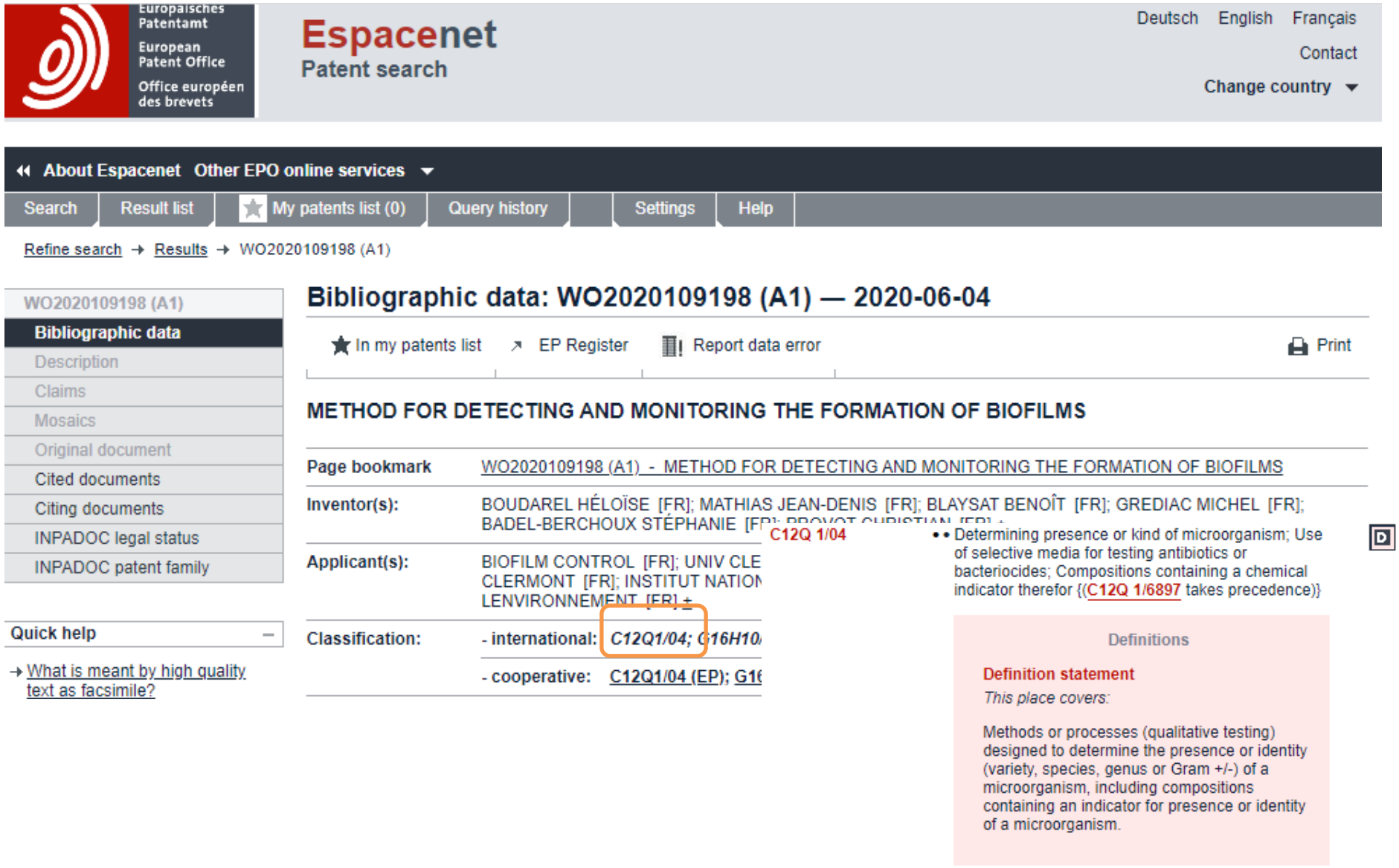

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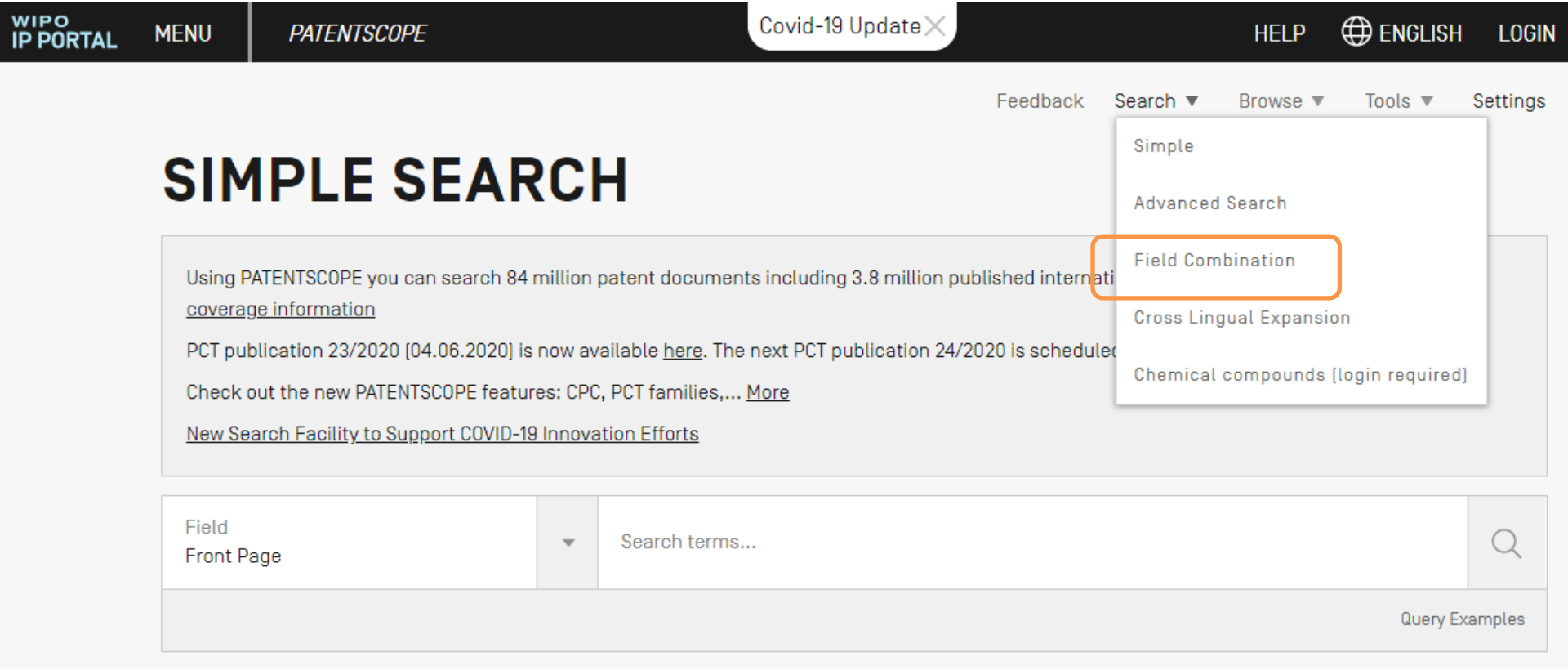

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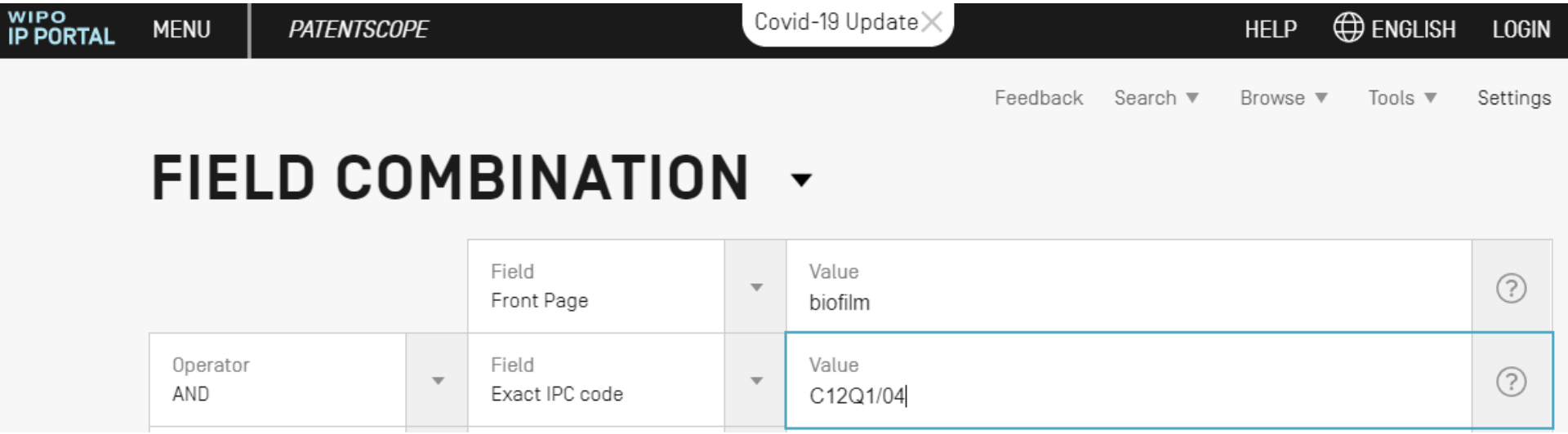
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1. WO/2013/030419 BIOFILM-MARKING COMPOSITION AND METHOD FOR DETECTION OF SAME ON SURFACES — WO - 07.03.2013

Int.Class C12Q 1/04 | Appl.No PCT/ES2012/070133 | Applicant BETELGEUX, S.L. | Inventor ORIHUEL IRANZO, Enrique

The invention relates to a biofilm-marking composition characterised in that it comprises: between 0.1 wt. % and 1 wt.%, inclusive of both limits, in relation to the total weight of the composition, of at least one tincture agent, preferably Rhodamine; at least one non-ionic surfactant; at least one anionic surfactant; at least one chelating agent; and water; mixed in different concentrations. The invention also relates to a biofilm-marking spray or aerosol containing said composition, in any of the variants thereof, and to a method for visually identifying said biofilms on surfaces, said method involving bringing the biofilm-marking composition according to the invention into contact with a surface to be analysed, and lightening the surface with a polar solvent. The dye remains adhered to the biofilm and the presence of the biofilm on the surface can be visually identified.

2. WO/2014/193410 METHOD AND DEVICE FOR DETECTING DEVICE COLONIZATION — WO - 04.12.2014

Int.Class C12Q 1/04 | Appl.No PCT/US2013/043626 | Applicant EMPIRE TECHNOLOGY DEVELOPMENT LLC | Inventor PEPPOU, George, Charles

Technologies are generally described for a method and a device for detecting device colonization. Disclosed herein is an indwelling medical device configured to detect a biofilm. The device comprises a substrate configured to contact blood and a detecting material, disposed with the substrate, configured to detect the presence of a

ANALYSIS

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Countries		Applicants		Inventors		IPC code		Publication Dates	
United States of America	31	BIOFILM CONTROL	9	BERNARDI THIERRY	6	C12Q	120	2011	4
PCT	21	CONVATEC TECHNOLOGIES INC	6	EVA A. BERKES	6	G01N	66	2012	12
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Spain	5	GENERAL ELECTRIC COMPANY	4	BERNARDI, THIERRY	3	A61L	10	2017	17
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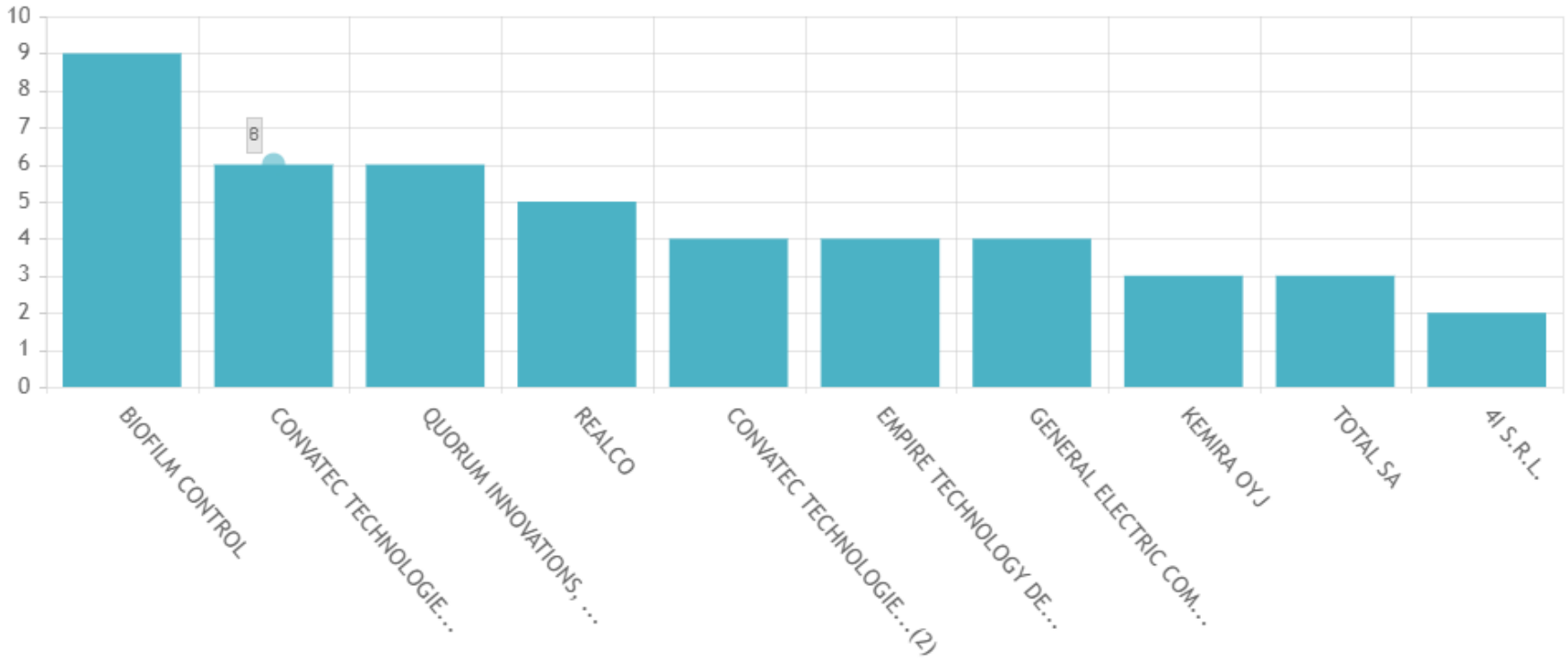
Countries Applicants Inventors IPC code Publication Dates



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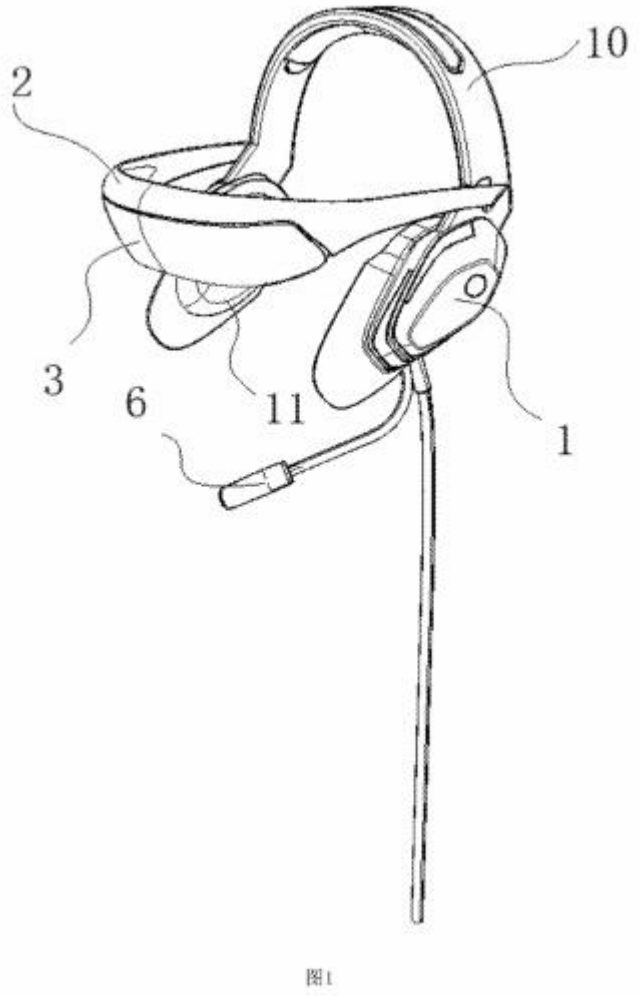
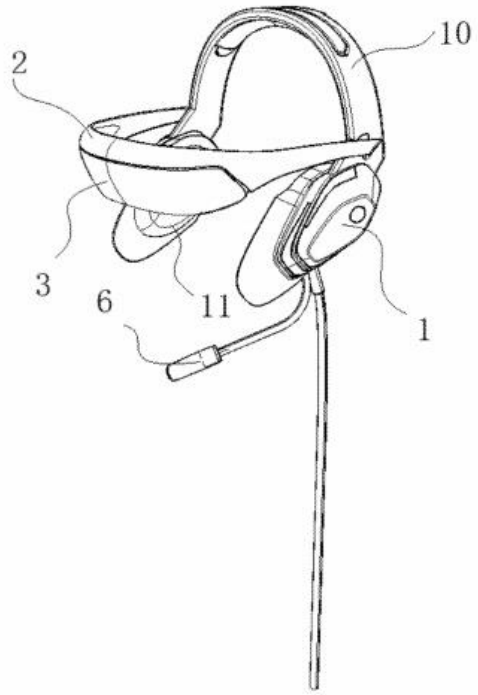


图1

AUDÍFONOS	LENTES	FUNCIÓN
headset headphone	Glasses lenses eye mask Eyecups	visual and audio integration headset and glasses combination



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1. Method and apparatus for a variable-resolution screen

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
GHAZARYAN RAZMIK [AM]	GHAZARYAN RAZMIK [AM]	G02B2027/0138 G02B27/0172 G02B27/1066 (+13)	G02B27/01 G03B21/14 G03B21/26 (+3)	US10649217 (B1) 2020-05-12	2019-03-29

2. VIRTUAL REALITY (VR) SYSTEM WITH NEARSIGHTEDNESS OPTOMETRY ADJUSTMENT

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ZHOU ZHEN [CN] YU YU [CN] (+1)	INTEL CORP [US]	A61B3/00 A61B3/02 A61B3/10 (+11)	A61B3/02 G02B27/01 G02C7/08 (+1)	US2020124852 (A1) 2020-04-23	2016-12-30

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PUBLISHED
- 2019 (15)
- 2018 (7)
- 2017 (8)
- 2016 (13)
- 2015 (9)

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APPLICANT
- CORNING INC (2)
- WILLIAMS PHILLIP LU... (2)
- ALDERMAN JASON (2)
- SULLIVAN SCOTT (2)

INVENTOR
- THOMAS MATT LEE (2)
- TYAGI VINEET (2)
- GENIER MICHAEL LU... (2)
- WILLIAMS PHILLIP LU... (2)
- ALDERMAN JASON (2)

CPC CODE
- G02B2027/0178 (8)
- G02B27/0172 (8)

Display module and electronic device thereof

Abstract
A pair of smart glasses including a headset, a frame, and an optical photoelectric conversion unit that can gather and utilize solar energy to supplement the electrical energy of a built-in battery. The smart glasses also include a display module comprising a plurality of display units arranged in a matrix. Each display unit comprises at least one micro LED unit and at least one first optical photoelectric conversion unit. A number of the micro LED units functions as a display, and also being controllable as an infrared light source for retinal scanning of the user.

FIG. 1

Timeline (Timeline view)

US2019385990A1

Claims | Description | Citatio

1. A display module comprising:
a plurality of display units arrange
least one micro LED unit and at le
unit; the at least one optical photo
solar energy into electrical power.

2. The display module of claim 1,
a substrate and an optical sensor
on an edge of the substrate, and t
portion of the substrate.

3. The display module of claim 2,
conversion unit is disposed on a r
one micro LED unit and the optica

4. The display module of claim 2,
micro LED units and four first opti
micro LED units are respectively
each first optical photoelectric cor
LED units, and the micro LED uni

5. The display module of claim 2,
LED unit in each display unit is les

6. The display module of claim 1,

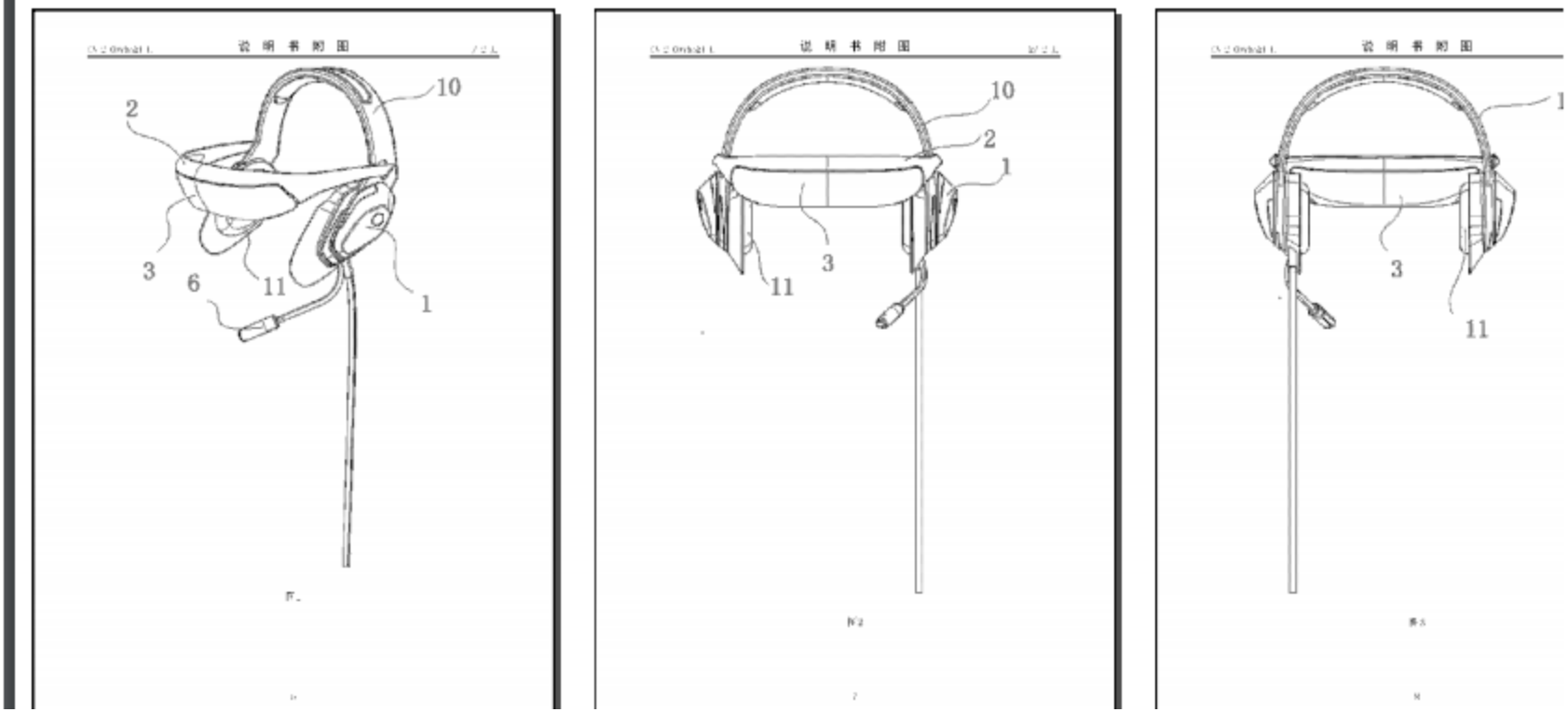
7. The display module of claim 1,

Mosaics: CN210075521 (U) — 2020-02-14

In my patents list Report data error

Headset and glasses

Page 1/2 Drawings Download

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Wikipedia

Comentarios

Búsqueda desde problema

Facilitar destapado de botella de champagne

~~Champagne~~
Sparkling wine
Carbonated beverage
Stopper extractor
Manualy operated

Búsqueda desde problema

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 201 597 A1

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
02.05.2002 Bulletin 2002/18

(51) Int Cl.7: **B67B 7/06**

(21) Application number: **01250348.8**

(22) Date of filing: **05.10.2001**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **25.10.2000 AR 0105625**
30.03.2001 US

(71) Applicant: **Descorjet Sociedad Anonima**
Ciudad de Buenos Aires (AR)

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  Ciudad de Buenos Aires (AR)

(74) Representative:
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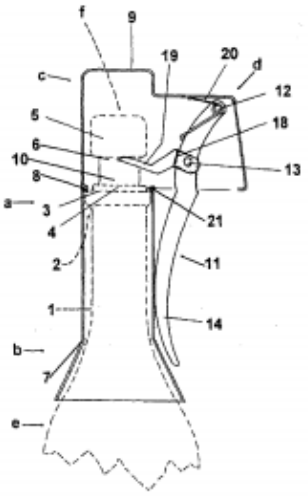
10117 Berlin (DE)

(54) **Manually operated stopper extractor of a container filled with carbonated beverage, sparkling wine and the like**

(57) The present invention pertains to a manually operated stopper extractor device arranged to engage a bottle (e) of carbonated liquid to remove the stopper (f). The extractor device includes a frame (a) arranged to be centered about the neck of the bottle (e) and a side support housing (d) which encloses an actuation lever (11) coupled to an extraction yoke (19). The yoke (19) is operable between a disengaged and engaged position with the stopper (f). When the lever (11) is in a compressed actuated position, the yoke (19) engages the stopper (f) and moves the stopper (f) upwardly to remove the stopper (f) from the bottle (e).



EP 1 201 597 A1

Búsqueda imposible desde idea

OBJETIVO/PROBLEMA	TECNOLOGÍA	ÁREA DE APLICACION
I	II	III
Limpieza OR desinfección	Robot OR autómata	muros OR muebles

Limpieza OR desinfección	Robot OR autómata	muros OR muebles

Cleaner AND (robot OR automata) AND vertical in the title or abstract

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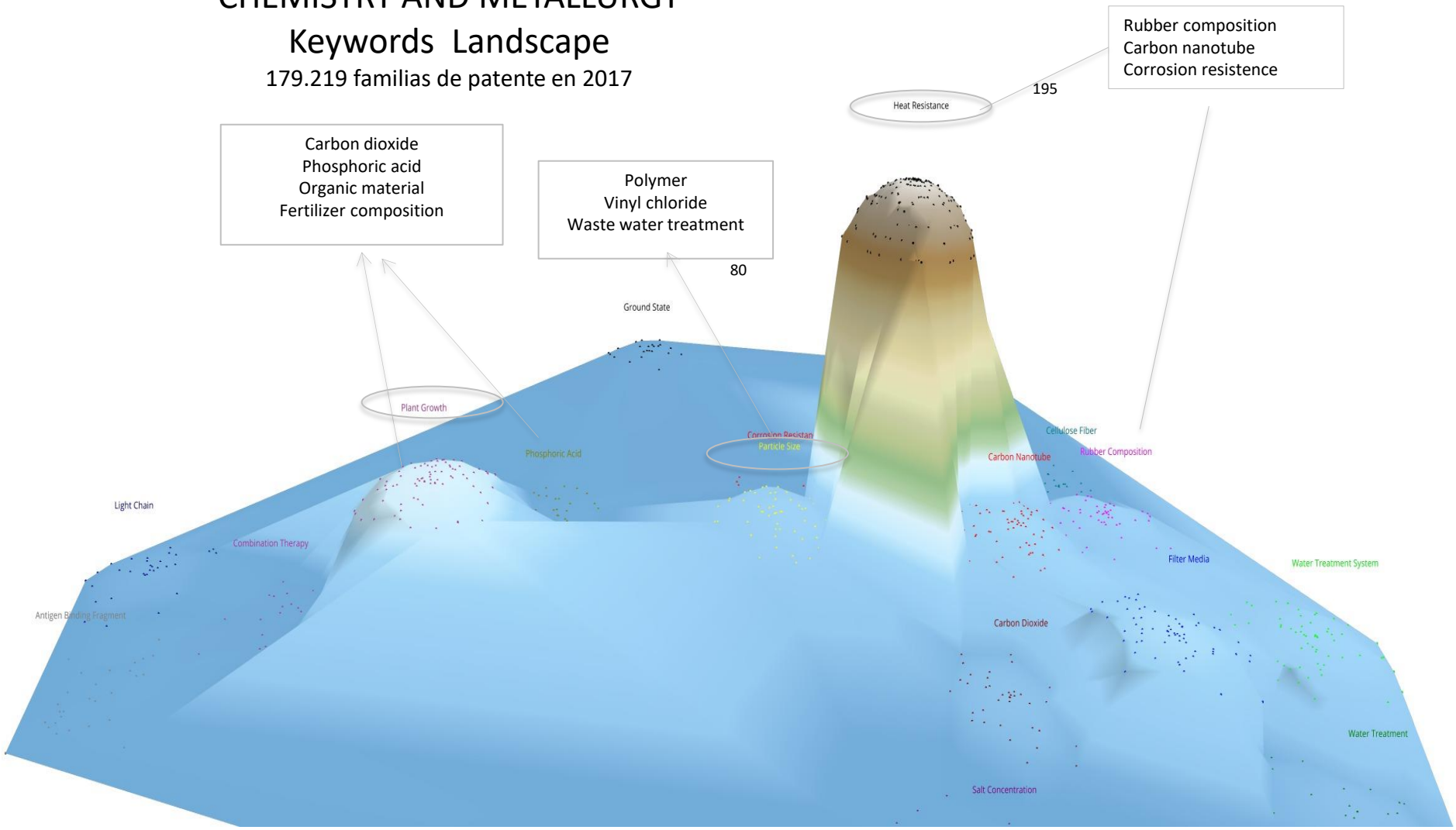
“bajo los muebles”

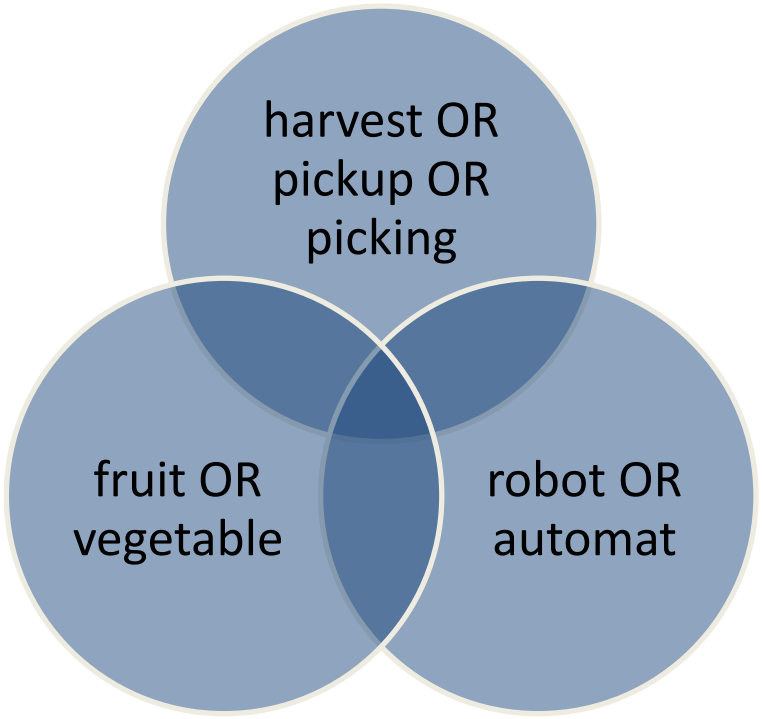
MAPAS TECNOLÓGICOS

CHEMISTRY AND METALLURGY

Keywords Landscape

179.219 familias de patente en 2017





(harvest OR pickup OR picking) AND (robot) AND fruit

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TAC :(harvest OR pickup OR picking) AND (robot* OR automata) AND (fruit OR ≈ 1,321

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2	AU2020100299A4	Produce container for use with vapour heat treatment	HANNAY DOUGLAS PTY LTD
3	IN202017002863A	Automatic analyzer and method for carrying out chemical, biochemical and/or immunochemical analyses	MEON MEDICAL SOLUTIONS GMBH & CO KG
4	CN110810014A	一种水果采摘智能机器人	重庆文理学院


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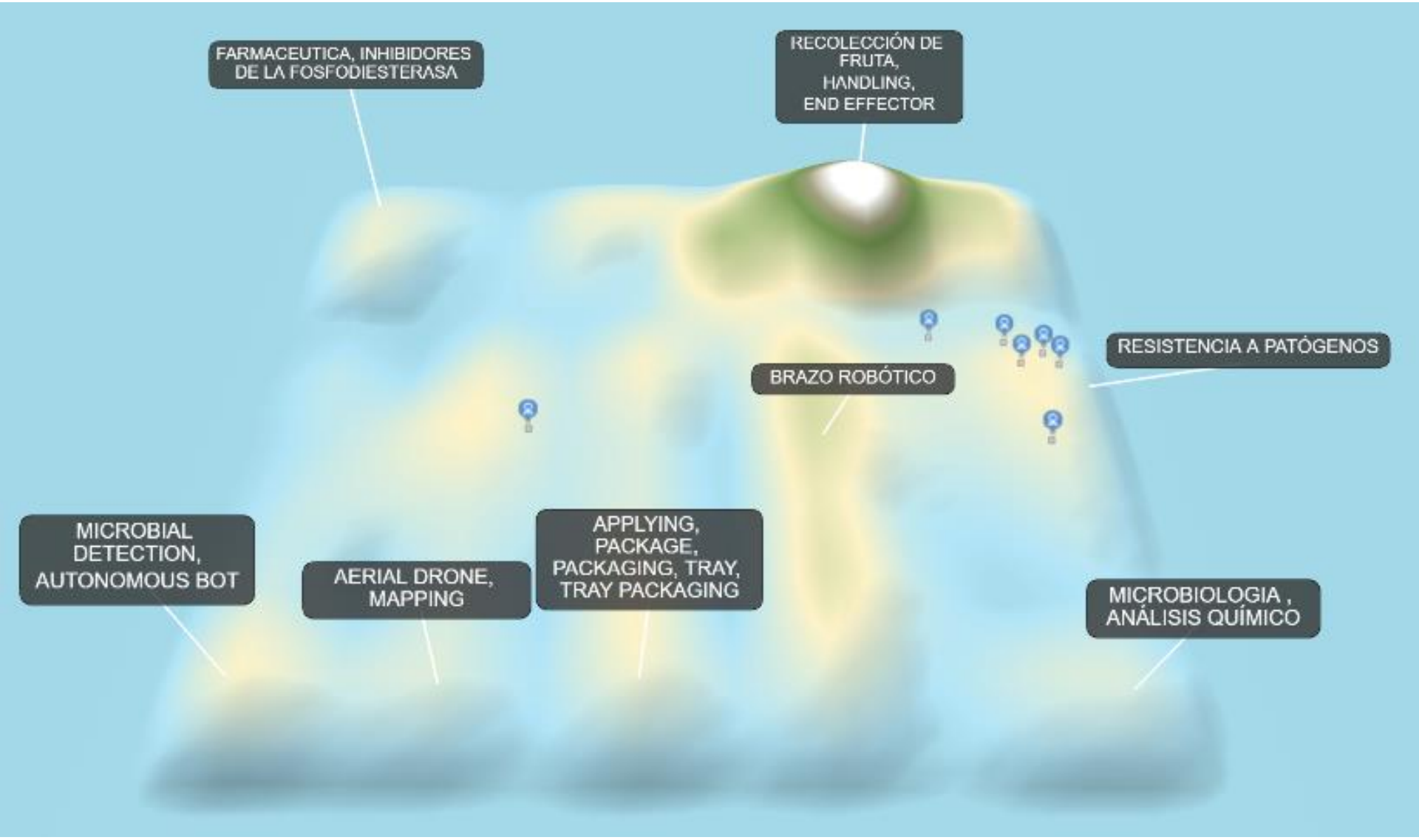
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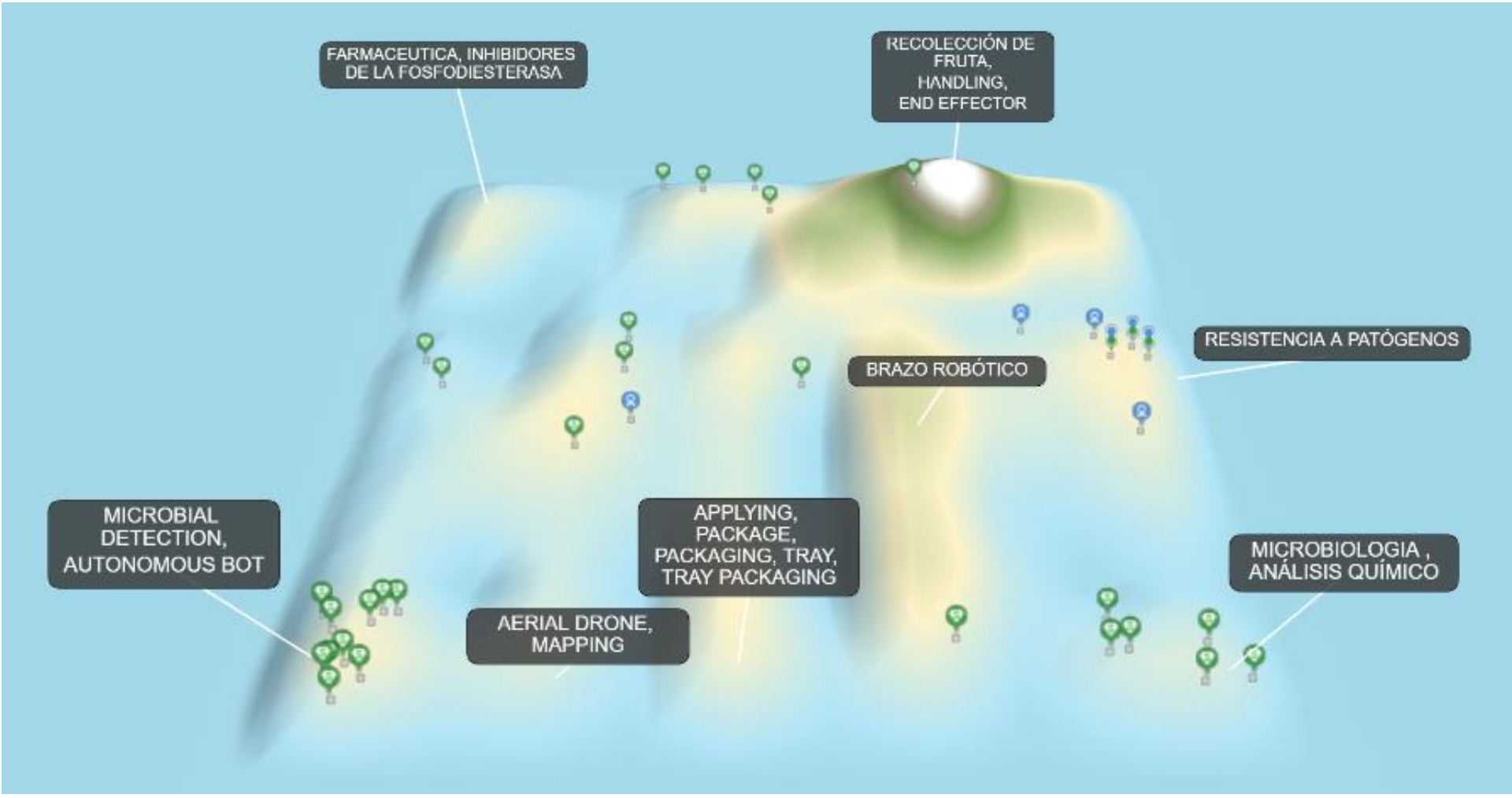
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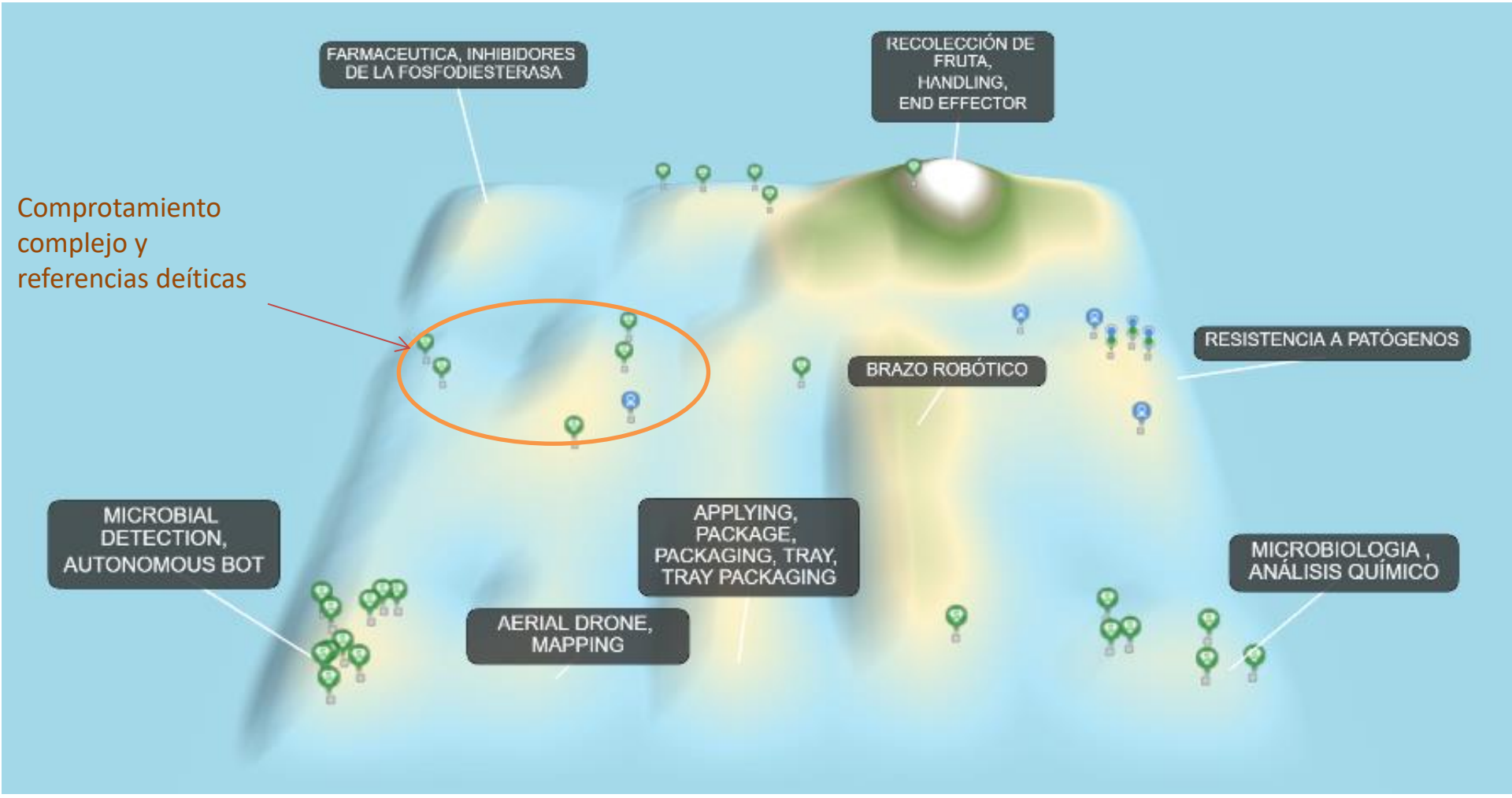

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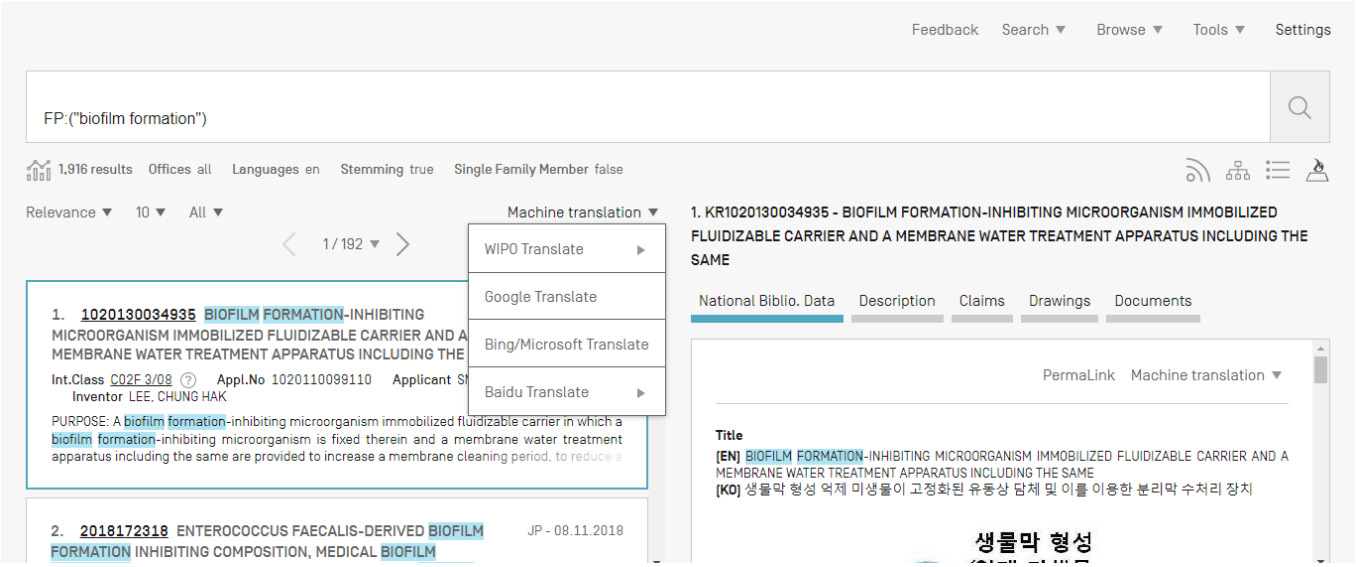

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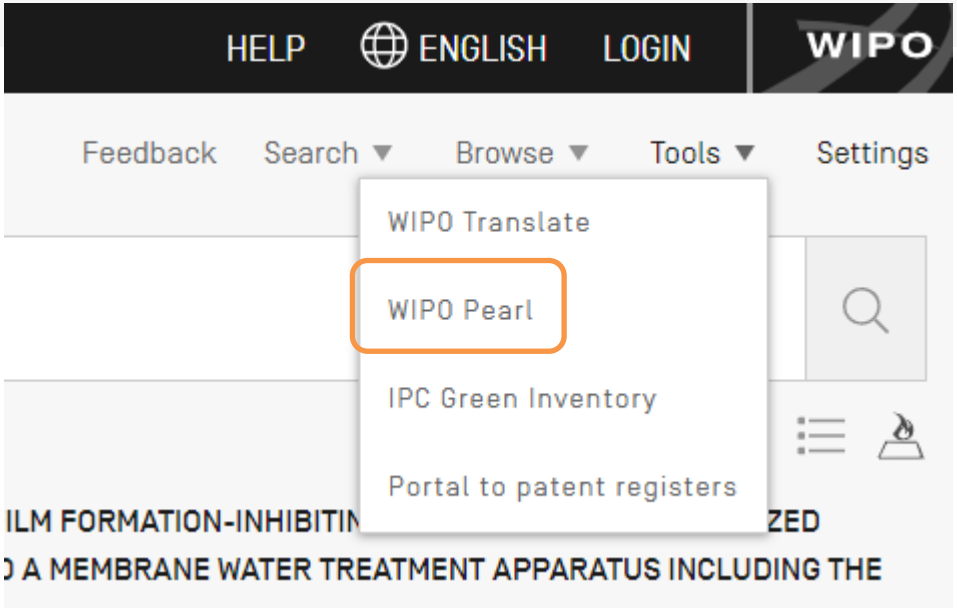

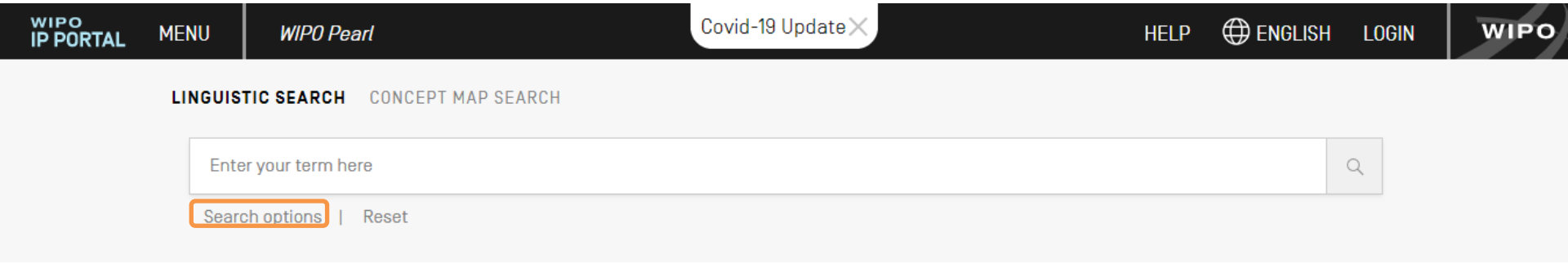
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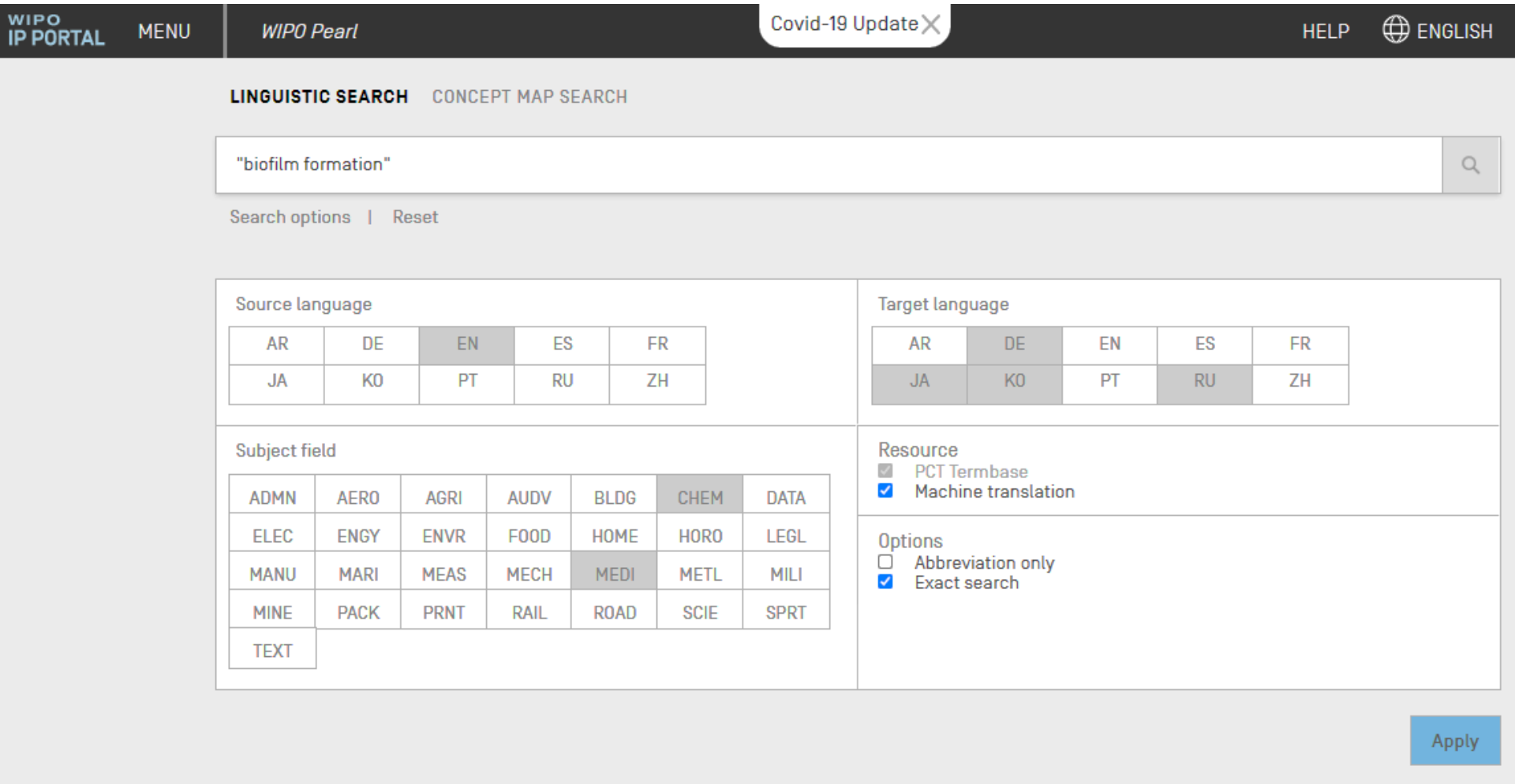
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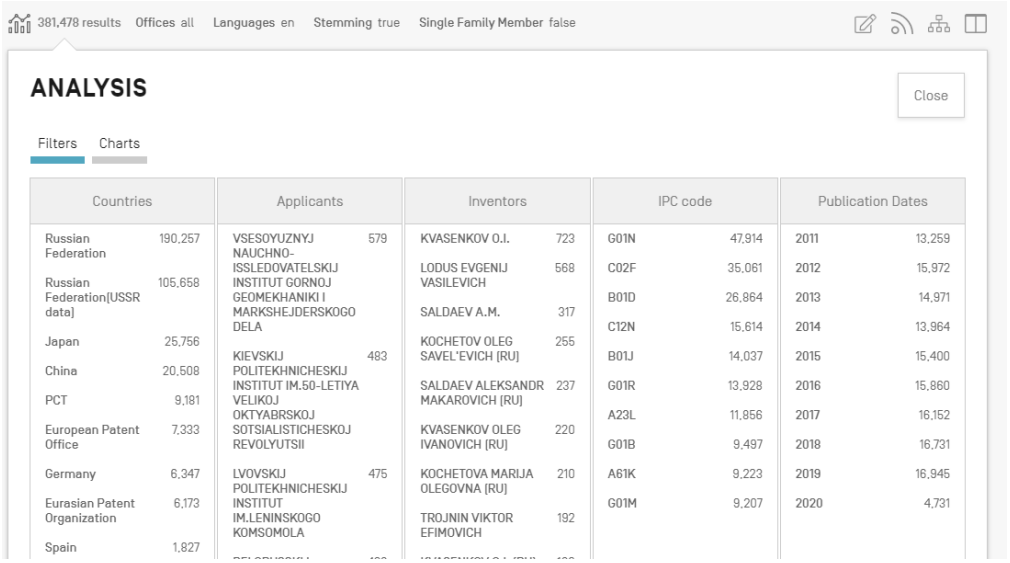

Food AND Enzyme → 12.848

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CROSS LINGUAL EXPANSION

Search terms... *

food AND enzyme

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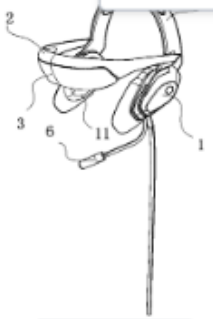
ar Patents

t Valuation

Granted

本实用新型提出了一种头戴式耳机与眼镜，其包括：头戴式耳机，其具有头梁、设置于头梁的两个听筒；头戴式耳机的头梁通过翻转机构安装有
罩/眼镜安装有镜片。本实用新型提供的头戴式耳机与眼镜通过将头戴式耳机与眼镜结合，实现"视听一体化"的目的，通过在头戴式耳机头梁侧面
构，与独立设计的眼罩相结合，形成一体化设计，眼罩中镶嵌一块广角镜片，可以让用户直接享受视听盛宴，不用在考虑眼镜腿的问题，当不需
可以将眼罩部分上翻。

Application Number	CN201920815252.8
Application Date	31 May 2019
Publication Number	CN210075521U
Publication Date	14 Feb 2020
Issue Date	14 Feb 2020
Estimated Expiry Date	31 May 2029
Value (USD)	unavailable



Images (13)

CN210075521U 头戴式耳机与眼镜

技术领域

[0001] 本实用新型涉及人体佩戴设备，尤其涉及一种头戴式耳机与眼镜。

背景技术

[0002] 在用户佩戴头戴式耳机超过一定时间后，耳朵的上耳廓部分就会由于受到头戴式耳机耳罩部分的挤压而向内变形，这对于普通用户来说可能只是一个很小的问题，但对于戴眼镜的用户来说，就是一个很严重的问题了。因为在上耳廓的后面，是眼镜腿的位置，眼镜腿的材质一般是木质或者塑料、金属等坚硬材质，这个时候，头戴式耳机耳罩部分对于耳廓的挤压问题就被凸显的非常严重。耳朵的疼痛感不说，眼镜腿还会因为受到挤压而产生偏移，眼镜会因此而发生微妙的位置变化，而这一点微妙的变化对于高度近视的用户来说意味着随之而来的巨大眩晕感。

[0003] 如何解决头戴式耳机与眼镜同时对耳朵造成负担的问题，就是减轻其中一个产品对耳朵的压迫，甚至消除其中一个产品对耳朵的挤压是本实用新型人所要解决的问题。

实用新型内容

[0004] 本实用新型的目的在于提供一种头戴式耳机与眼镜，通过将头戴式耳机与眼镜结合，实现"视听一体化"的目的，通过在头戴式耳机头梁侧面增加两个翻转机构，与独立设计的眼罩相结合，形成一体化设计，不用在考虑眼镜腿的问题，当不需要使用眼镜时，可以将眼罩部分上翻。

[0005] 本实用新型提出的一种头戴式耳机与眼镜，其包括：头戴式耳机，其具有头梁、设置于头梁的两个听筒；头戴式耳机的头梁通过翻转机构安装有眼罩/眼镜，眼罩/眼镜安装有镜片。

[0006] 与现有技术相比，本实用新型提供的头戴式耳机与眼镜通过将头戴式耳机与眼镜结合，实现"视听一体化"的目的，通过在头戴式耳机头梁侧面增加两个翻转机构，与独立设计的眼罩相结合，形成一体化设计，眼罩中镶嵌一块广角镜片，可以让用户直接享受视听盛宴，不用在考虑眼镜腿的问题，当不需要使用眼镜时，可以将眼罩部分上翻。

[0007] 进一步，翻转机构包括：

[0008] 翻转件，其具有圆柱状连接部，径向设置于圆柱状连接部的滑动块，滑动块远离圆柱状

[Translation]

Technical field

[0001] The utility model relates to a human body wearing device, in particular to a headphone and glasses.

Background technique

[0002] After the user wears the headset for more than a certain period of time, the upper auricle part of the ear will be deformed inward by being squeezed by the earmuff part of the headset, which may only be a very common problem for ordinary users. Small problem, but for users wearing glasses, it is a very serious problem. Behind the upper auricle is the position of the spectacles. The material of the spectacles is generally hard materials such as wood or plastic, metal. At this time, the problem of squeezing the auricle of the earphones against the auricle is highlighted. very serious. Not to mention the pain in the ears, the legs of the glasses will be offset due to the squeeze, and the glasses will have a subtle change in position. This subtle change means that for users with high myopia Great dizziness.

[0003] How to solve the problem that the headphones and glasses cause a burden on the ears at the same time is to alleviate the pressure of one product on the ears, and even eliminate the squeeze of one product on the ears, which is the problem that the utility model wants to solve.

Utility model content

[0004] The purpose of this utility model is to provide a headset and glasses. By combining the headset and glasses, the purpose of "audiovisual integration" is achieved. The flip mechanism is combined with an independently designed eyecup to form an integrated design, without having to consider the problem of the temples of the glasses, and when the glasses are not needed, the eyecup can be turned up.

RECOMENDACIONES

1. Identificar los componentes temáticos principales

- Problema
- Tecnología
- Campo de aplicación

RECOMENDACIONES

2. Buscar las palabras clave y sus sinónimos

- Usar Thesaurus
- Usar Cross Lingual Expasion de PatentScope
- Usar las propias patentes como fuentes

RECOMENDACIONES

3. Definir la utilización de operadores lógicos AND–OR – NOT o de proximidad, relacionando los componentes

- Usar la búsqueda avanzada cuando sea requerido

RECOMENDACIONES

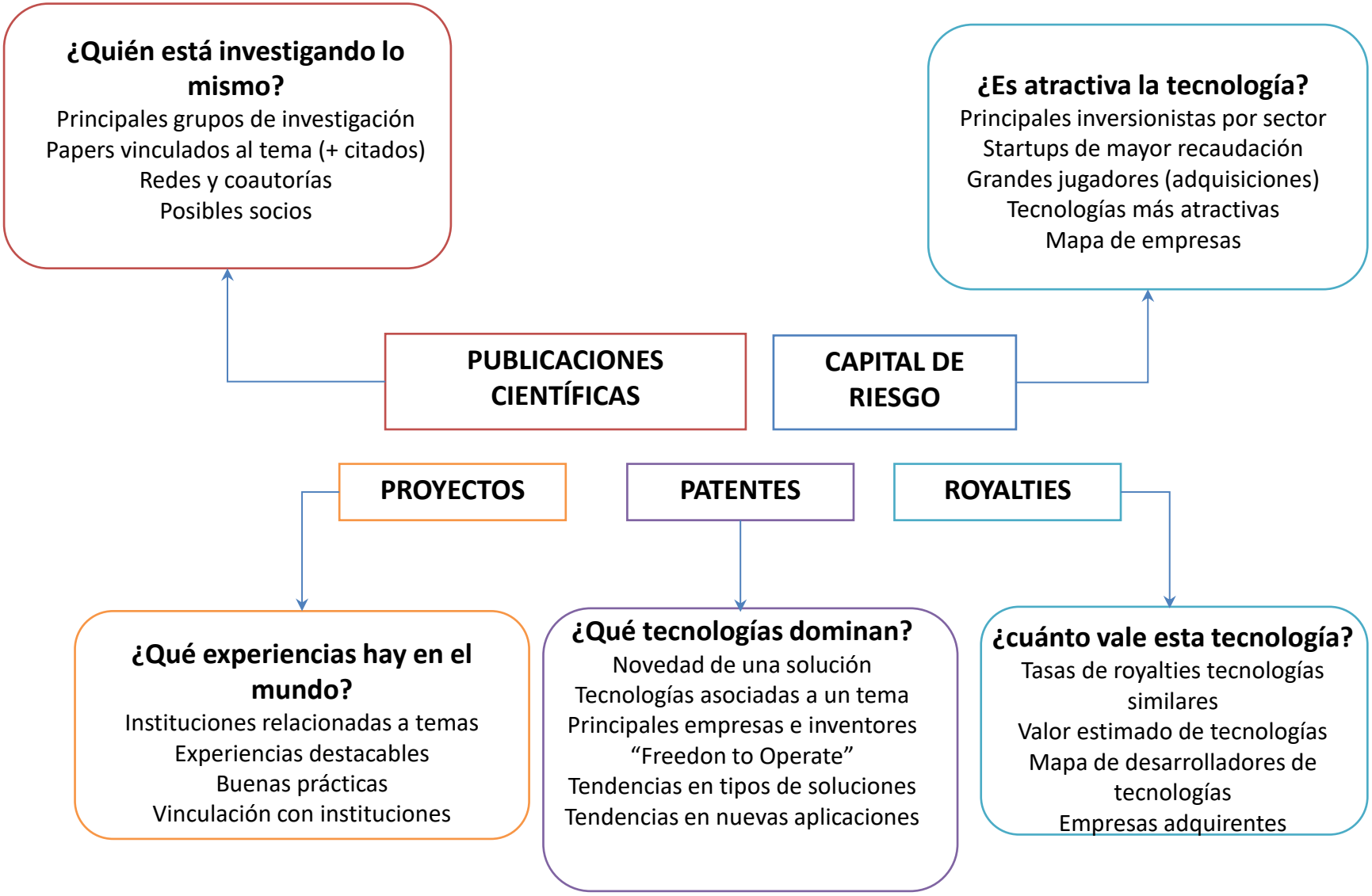
4. Utilizar Códigos de clasificación (IPC o CPC)

-Apoyarse en IPC Lookup de PatentInspiration

RECOMENDACIONES

5. Definir la utilización de operadores lógicos AND–OR – NOT o de proximidad, relacionando los componentes

- Definir el tipo de búsqueda a realizar (estado del arte, autores, compañías, patentabilidad, etc.)
- Decidir el espectro de la búsqueda (tiempo, tipo de publicación)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