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Tema 4. El uso del PCT como fuente de información técnica y comercial: PATENTSCOPE

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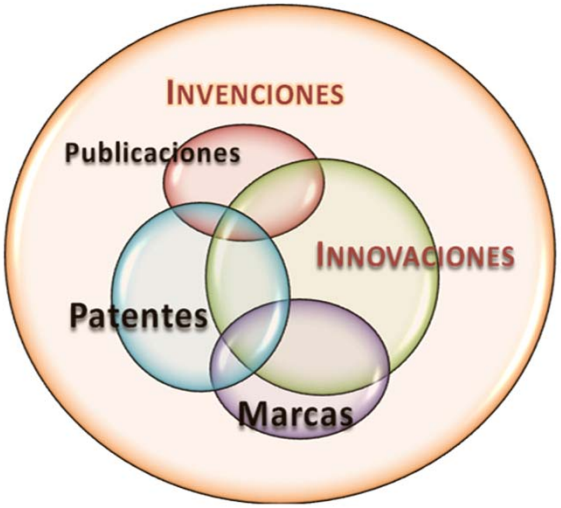
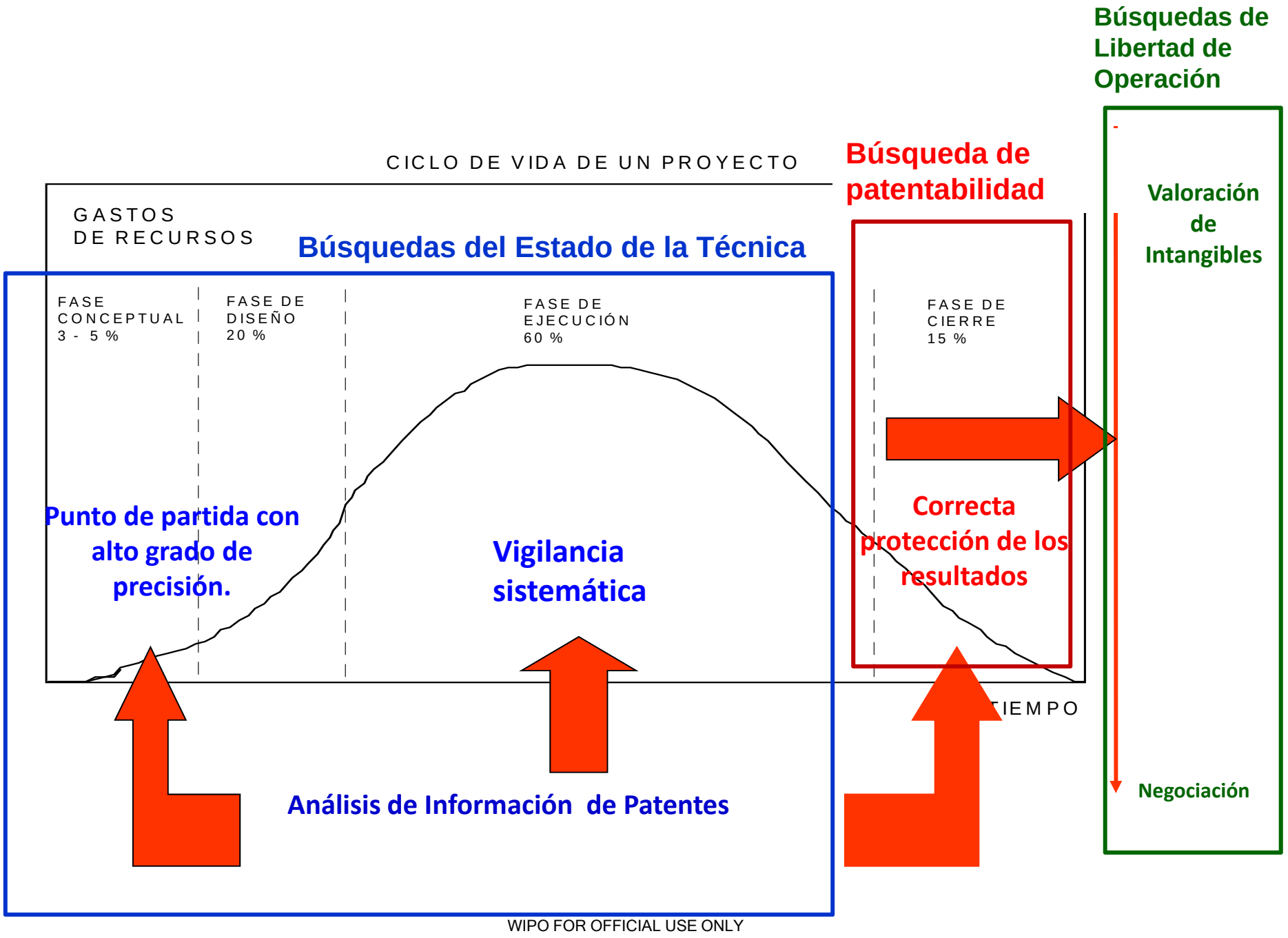
Fomentar y facilitar la incorporación al sistema productivo de los resultados de la investigación de las Universidades y Centros de Investigación requiere necesariamente de la visión actualizada del desarrollo tecnológico en el sector de interés, para garantizar asimilar los nuevos conocimientos precisos para mejorar la producción y poder obtener mejores resultados económicos.



Una búsqueda en información de patentes permite:

- ✓ ***Identificar el nivel de desarrollo tecnológico alcanzado y los problemas técnicos que aspiran a dar soluciones para el mercado.***
- ✓ ***Valorar las soluciones técnicas disponibles y los resultados propios.***
- ✓ ***Monitorear el avance tecnológico***
- ✓ ***Elaborar estrategias a seguir en el proceso de implementación de las nuevas o mejoradas tecnologías (protección, comercialización, cesión o licenciamiento).***
- ✓ ***Evitar la infracción o evadir los derechos concedidos a terceros (patentes).***



WIPO PATENTSCOPE

Permite efectuar búsquedas en 89 millones de documentos de patente, entre los que se cuentan 3,8 millones de solicitudes internacionales de patente PCT publicadas.

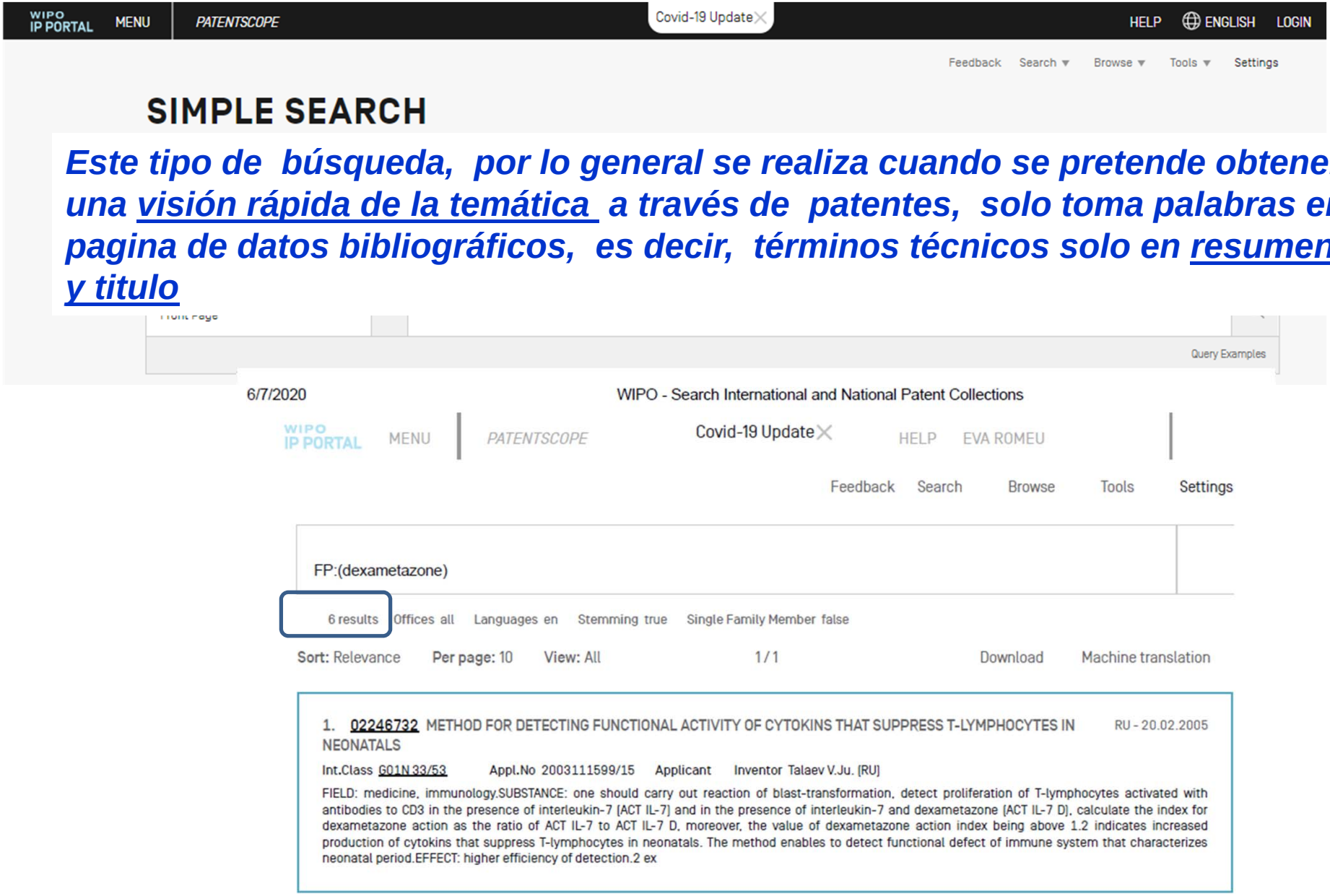
Garantiza:

- ***Acceso al contenido completo de los expedientes de gran parte de las solicitudes PCT, incluye informe de búsqueda y examen, documentos de prioridad y listas de secuencias.***

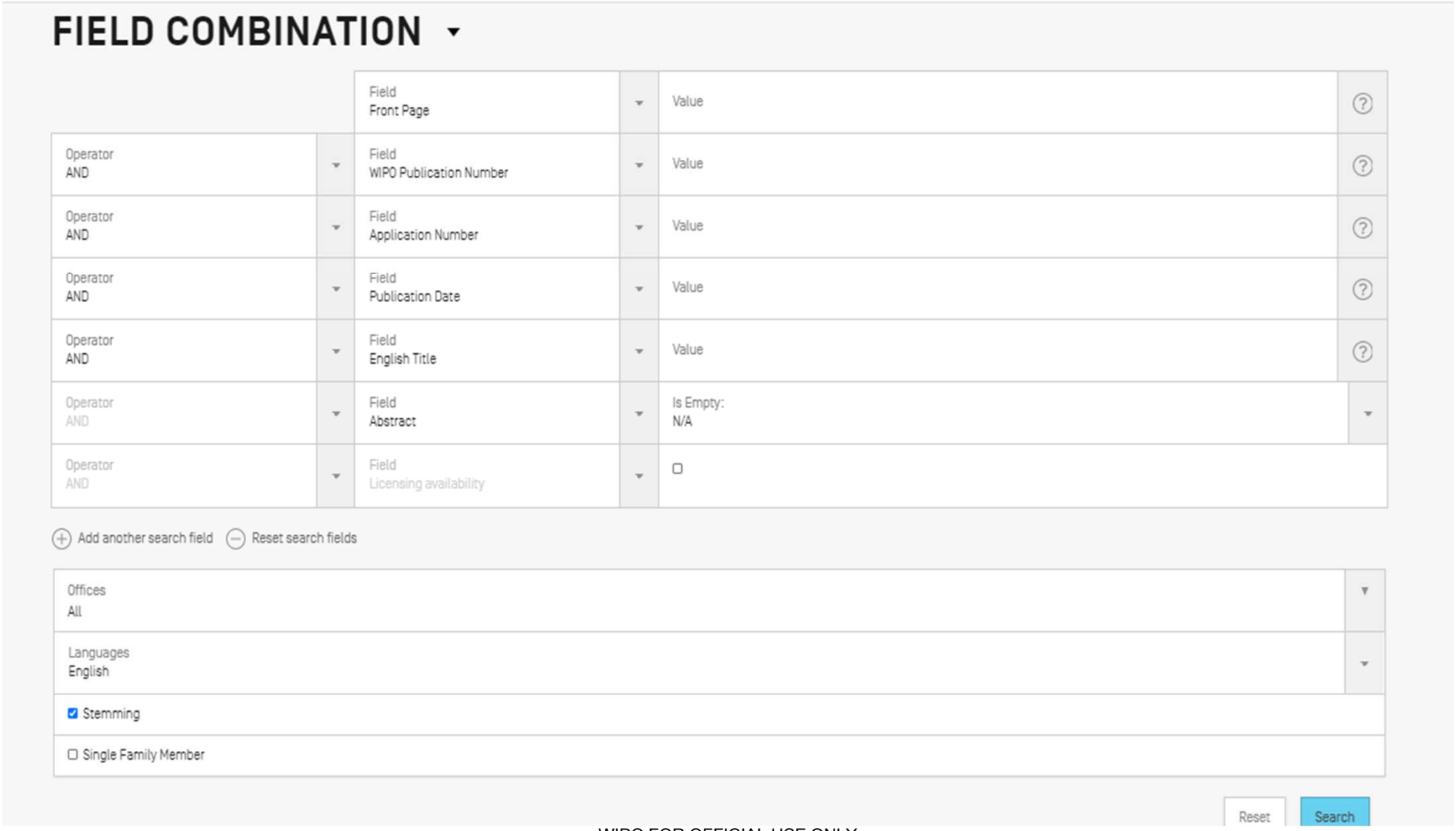
- ***Aproximadamente el 60% de todas las familias de patentes que se generan a nivel mundial abarcan una solicitud presentada a través del PCT, con un incremento del número de familias de patentes de más del 5% cada año.***

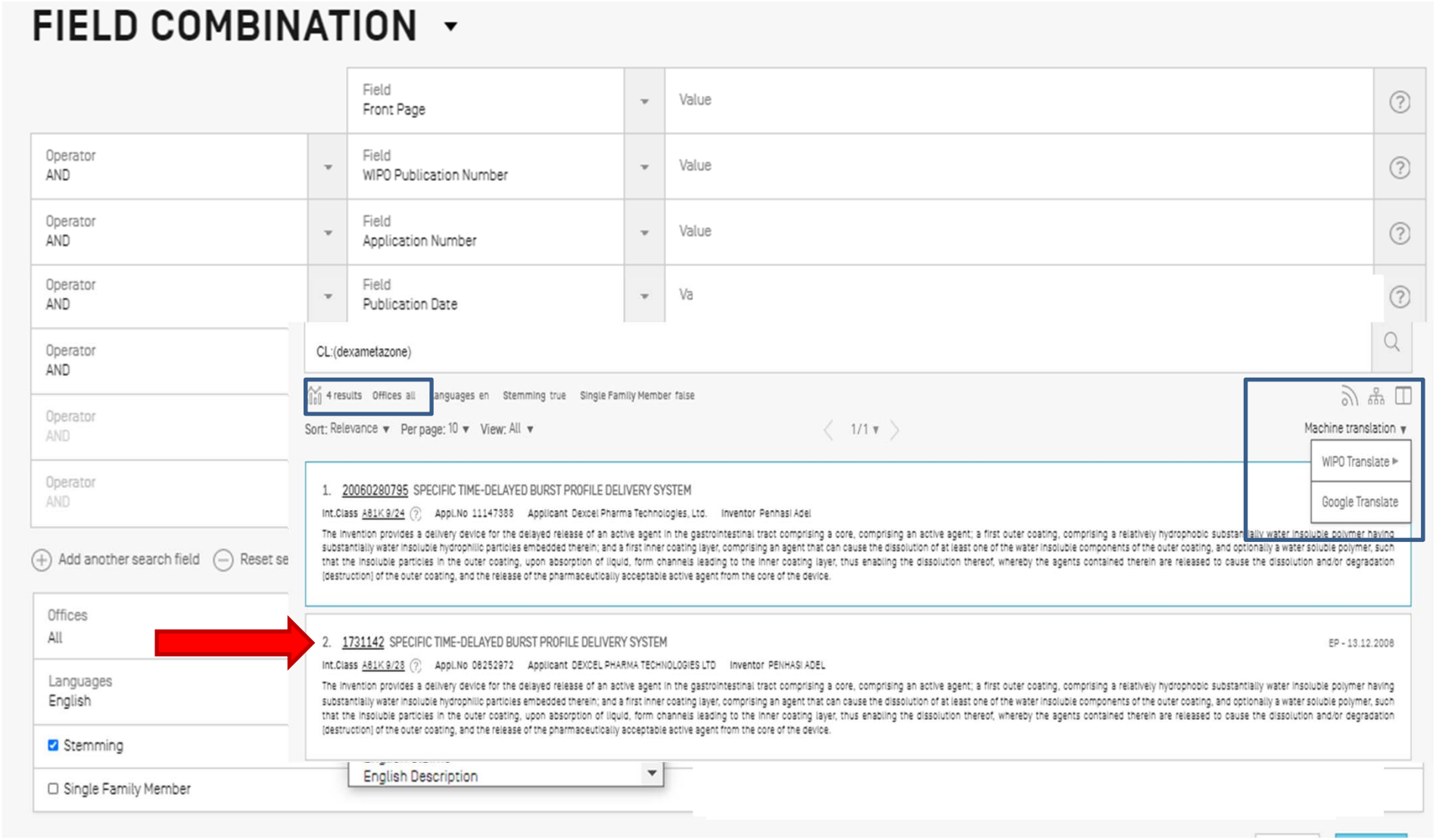
- ***Su cobertura es amplia, abarca varias bases de datos de oficinas y tratados***

https://patentscope.wipo.int/search/en/search.jsf

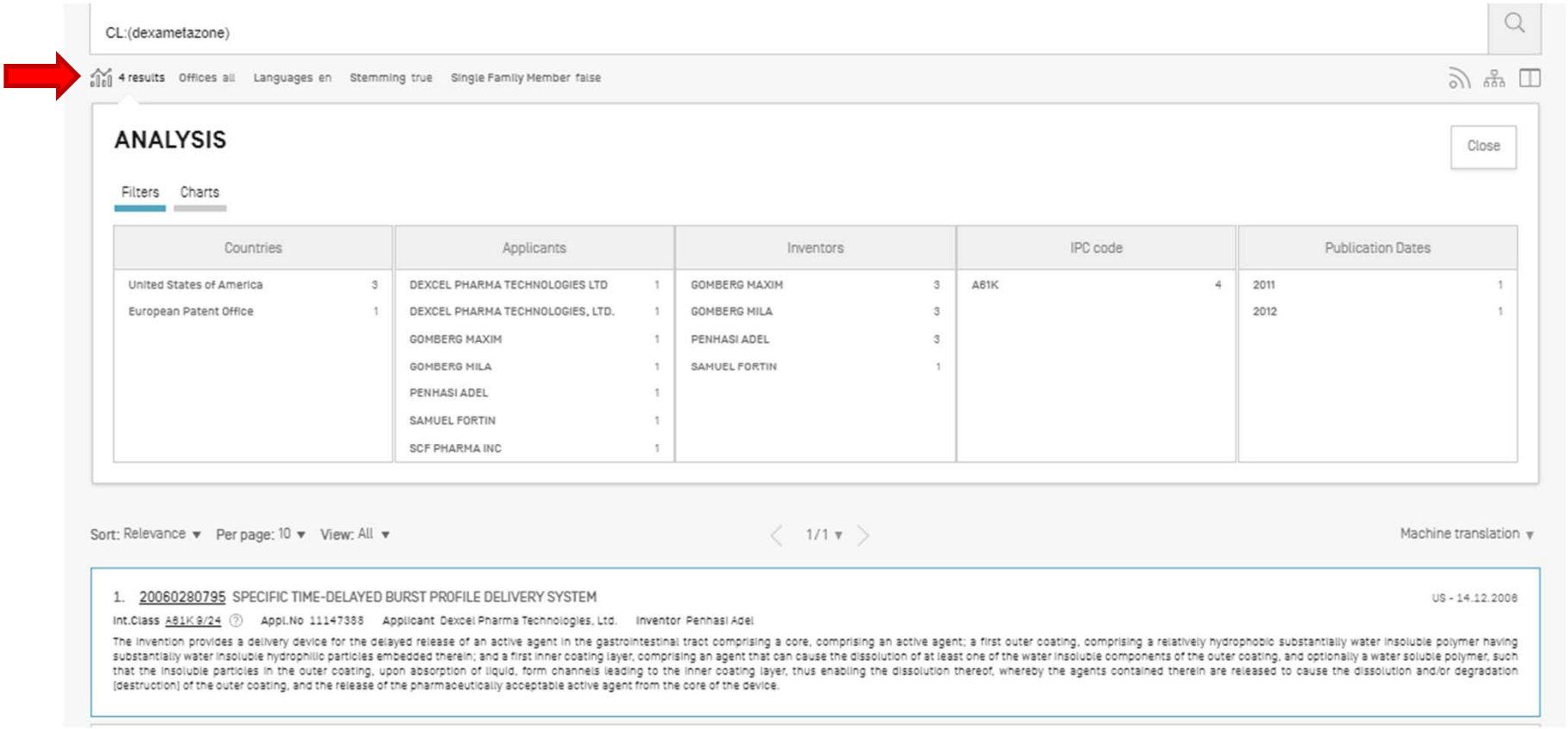


Este tipo de búsqueda, por lo general se realiza cuando se pretende obtener una visión rápida de la temática a través de patentes, solo toma palabras en pagina de datos bibliográficos, es decir, términos técnicos solo en resumen y titulo





Analisis estadístico de la información recuperada según estrategia aplicada:



2. EP1731142 - SPECIFIC TIME-DELAYED BURST PROFILE

Bescheid/Protokoll (Anlage) | **Communication/Minutes** (Annex) | **Notification/Procès-verbal** (Annexe)

Datum / Date / Date: cf Form 1507

Blatt / Sheet / Feuille: 1

Anmelde-Nr.: / Application No.: / Demande n°: 06 252 972.2

1 DOCUMENTS

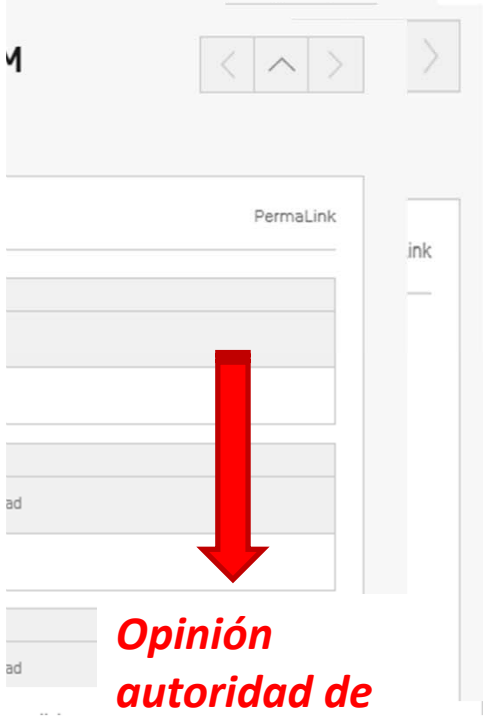
The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: US-A-5 472 710
D2: US 2002/044975
D3: EP-A-0 425 699
D4: US-B1-6 231 888
D5: US-A-5 593 697

2 CLARITY (Art. 84 EPC) and DISCLOSURE (Art. 83 EPC)

2.1 The terms "relatively hydrophobic substantially water insoluble polymer" and "substantially water insoluble hydrophilic particles" used in **claims 1, 8 - 12, and 15** are vague and indefinite and as such render the scope of the claims unclear.

2.2 The terms relate to an extremely large number of possible substances. Thus, the subject-matter of claim 1 is broader than justified by the extent of the disclosure and lacks support over the whole scope in contravention of Articles 83 and 84 EPC.

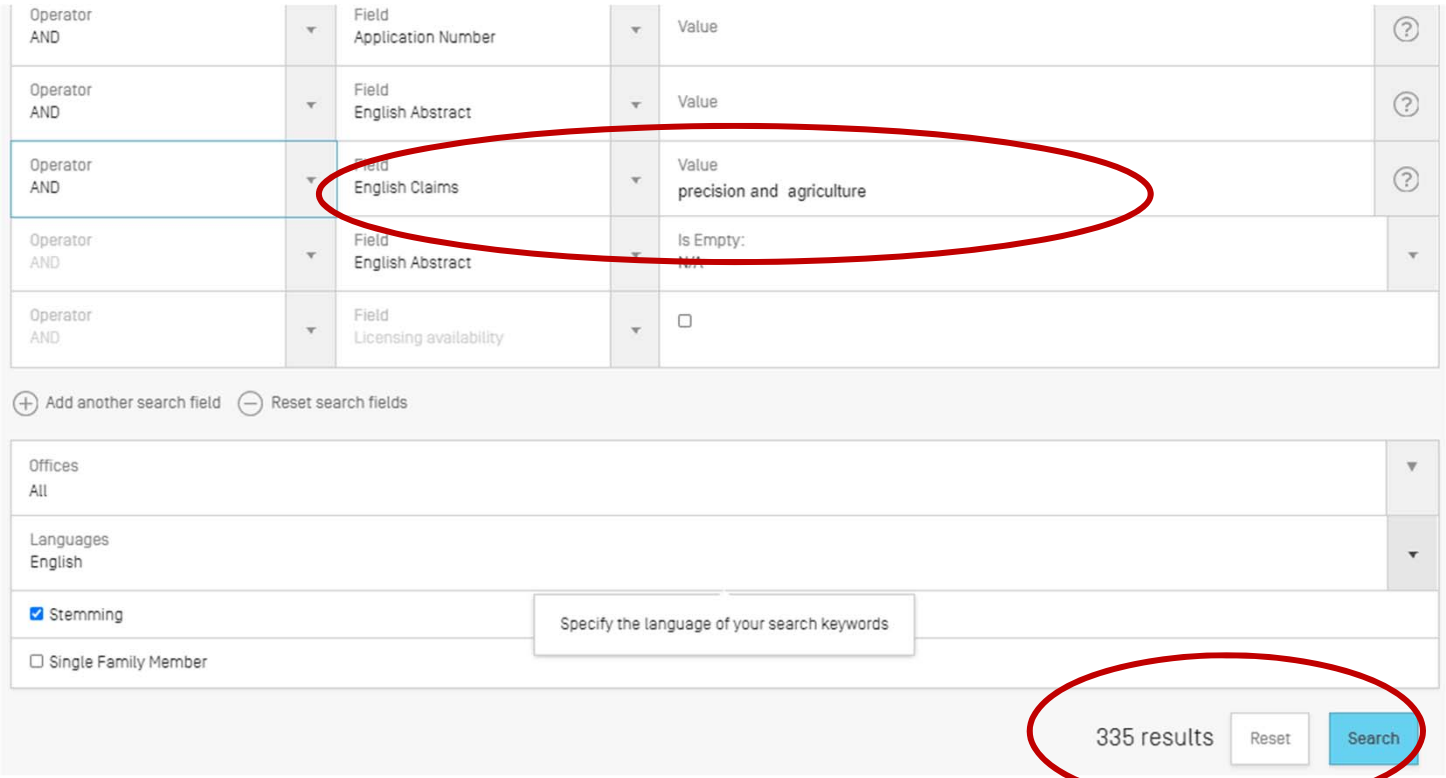


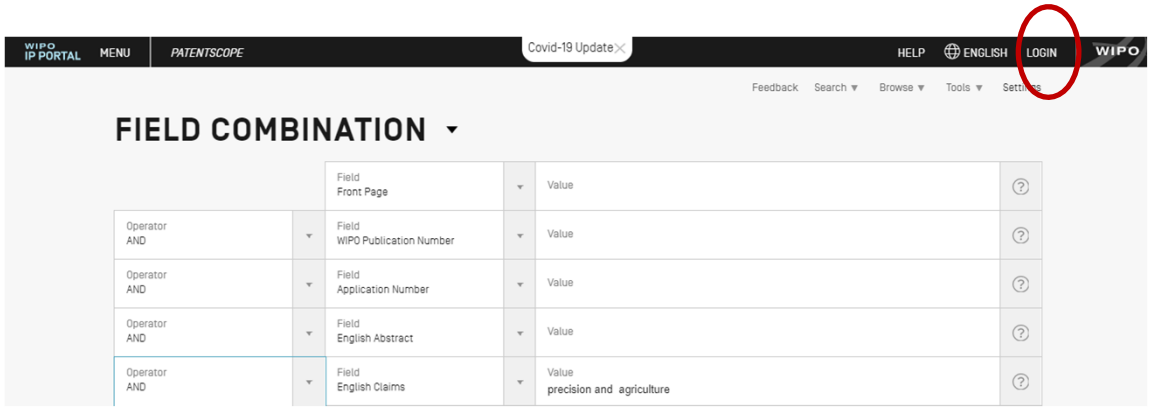
Opinión autoridad de Búsqueda

Analisis de un ejemplo de caso

La empresa de tecnología Microsoft y Banrural se aliaron para crear una plataforma que integra los últimos adelantos en tecnología, agricultura y finanzas para mejorar la productividad, mitigar los riesgos y mejorar las prácticas agrícolas. La plataforma permitirá desarrollar un campo más próspero, eficiente y sostenible en Guatemala.
El modelo de Agricultura de Precisión proporciona información de territorio, tierra y climatología, que se suma a herramientas como sensores, drones e imágenes satelitales que proporcionarán datos para que expertos contratados por Banrural asesoren a sus clientes en el sector agrícola y les ayuden a tomar mejores decisiones para mejorar su productividad.

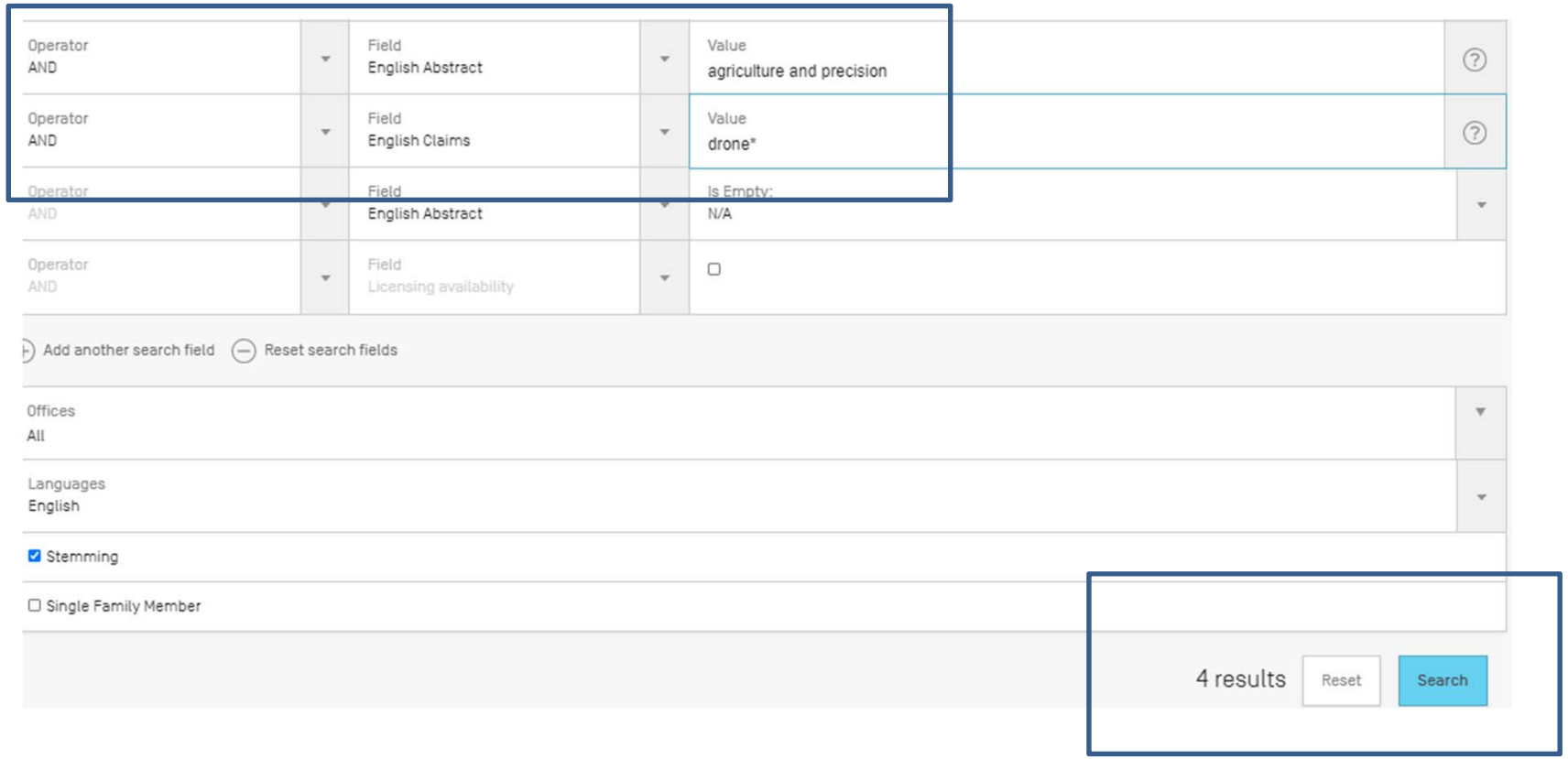
El modelo de Agricultura de Precisión proporciona información de territorio, tierra y climatología, que se suma a herramientas como sensores, drones e imágenes satelitales que proporcionarán datos para que expertos





	A	B	C	D	E	F	G	H
1								
2	**Time:**	*08.07.2020 17:33:54*						
3	**Query:**	*EN_CL:(precision and agriculture)*						
4	**SortBy:**	*Relevance*						
5								
6	**Application Id**	**Application Number**	**Application Date**	**Country**	**Title**	**I P C**		
7	US279741079	16367835	28.03.2019	US	AUTOMATED OPTIMIZATION OF AGRICULTURAL TREATMENTS BASED ON RASTER IMAGE DATA SYSTEM	A01G 7/06; G06K 9/00; G06T 7/00; A01M 7/00; A01C 21/00; A01C 23/00		
8	US233188930	15594385	12.05.2017	US	Computer-implemented methods, computer readable medium and systems for a precision agriculture platform with a satellite data model	G06T 7/00; G06N 5/04; G06K 9/00; G06K 9/66; G06K 9/46; A01G 17/00; A01G 25/00; G06N 20/00; G06K 9/62; A01G 25/16		
9	US205083601	15632583	26.06.2017	US	System and method for automated odometry calibration for precision agriculture systems	A01B 79/02; A01B 79/00; A01B 41/06; A01C 21/00; A01M 21/00; A01M 21/04; G01C 15/04; G01C 7/04; A01M 21/02; G01C 11/06; G01C 11/00		
10	US40644745	10706540	12.11.2003	US	Precision farming system for applying product to a field	B05B 7/14; A01B 79/00; A01B 79/00; A01C 21/00; A01C 21/00; A01C 23/00; A01C 23/04		
11	WO2015061570	PCT/US2014/061972	23.10.2014	WO	SYSTEM AND PROCESS FOR DISPENSING MULTIPLE AND LOW RATE AGRICULTURAL PRODUCTS	A01C 21/00		
12	CA94360966	2635401	19.06.2008	CA	AIR SEEDER/FERTILIZER APPARATUS HAVING METERING MEANS AND DISTRIBUTION MANIFOLD WITH SELECTIVELY OPENABLE PORTS	A01C 14/00; A01C 7/20; A01C 15/00; A01C 19/00; G01C 21/00		
13	US43008442	12143778	21.06.2008	US	Air seeder/fertilizer apparatus having metering means and distribution manifold with selectively openable ports	A01C 7/00; A01C 7/00; G01S 19/00; G01S 19/14; A01C 9/00; A01C 9/00; A01C 23/00; A01C 23/00; G01S 19/23; G06F 7/60; G06F 7/70; G06F 19/00; G06F 19/00		
14	US233188690	15594377	12.05.2017	US	COMPUTER-IMPLEMENTED METHODS, COMPUTER READABLE MEDIUM AND SYSTEMS FOR A PRECISION AGRICULTURE PLATFORM THAT INTEGRATES A SATELLITE DATE MODEL AND AN ORCHARD DATA MODEL	G06N 5/04; G01W 1/10; G06F 17/30; G06N 99/00; G06F 17/50; G06K 9/00		
15	WO2017074852	PCT/US2016/058418	24.10.2016	WO	PRECISION FARMING SYSTEM UTILIZING SEED VENDOR	A01B 79/00		
16	US195264135	14923653	27.10.2015	US	Precision farming system utilizing seed vendor data	A01B 79/00; A01C 7/00; G06Q 10/06		
17	US107421752	13859214	09.04.2013	US	Agricultural implement with automated recognition of chemical tote contents	A01M 7/00; A01C 21/00		
18	US239823434	16153824	08.10.2018	US	SYSTEM AND METHOD FOR AUTOMATED ODOMETRY CALIBRATION FOR PRECISION AGRICULTURE SYSTEMS	A01B 79/00; A01C 21/00; A01M 21/04; A01M 21/02; A01M 21/00; G01C 11/00; A01B 41/06; G01C 11/06; G01C 7/04; G01C 15/04		
19	US178803457	15202332	05.07.2016	US	AUTOMATED AGRICULTURAL ACTIVITY DETERMINATION SYSTEM AND METHOD	G06Q 50/02; H04W 4/02; G06Q 10/06		
20	AU206477647	2017251805	26.10.2017	AU	System and process for dispensing multiple and low rate agricultural products	A01C 21/00		
21	US283198876	16596484	08.10.2019	US	SYSTEM AND PROCESS FOR DISPENSING MULTIPLE AND LOW RATE AGRICULTURAL PRODUCTS	A01C 21/00; A01C 7/06; A01M 9/00; A01M 7/00		

Una posible estrategia de búsqueda combinada sobre el tema pudiera ser referida a drones utilizados para los sistemas de agricultura de precisión. La estrategia que pudiéramos aplicar sería, por ejemplo:



PATENTSCOPE permite hacer búsquedas de patentes que ofrecen licencias desde la fase de su solicitud a través del PCT

1. WO2019244094 - WILDFIRE DETECTION SYSTEM AND METHOD USING ARRAY OF CO2 SENSORS AND ARTIFICIAL INTELLIGENCE

PCT Biblio. Data | Description | Claims | Drawings | ISR/WOSA/A17(2)[a] | National Phase | Notices | Documents

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WIPO | PCT

(10) International Publication Number
WO 2019/244094 A1

(51) International Patent Classification:
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G08B 17/06 (2006.01) G08B 25/00 (2006.01)

(21) International Application Number:
PCT/IB2019/055209

(22) International Filing Date:
20 June 2019 (20.06.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
110795 20 June 2018 (20.06.2018) PT

(72) Inventor; and

(71) Applicant: **LADEIRA, João** [PT/PT]; Rua Baden Powell LT 58 1° B, 2720-798 Amadora (PT).

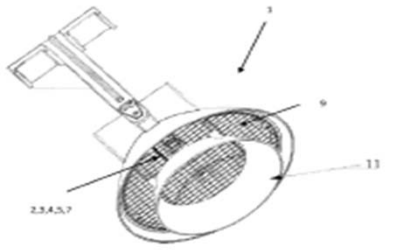
(74) Agent: **GATA, Ligia**; Av. Dr. Mario Moutinho, Lote 1519 - 7oEsq, 1400-136 Lisboa (PT).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: WILDFIRE DETECTION SYSTEM AND METHOD USING ARRAY OF CO_2 SENSORS AND ARTIFICIAL INTELLIGENCE

Fig. 2



(57) Abstract: The present invention relates to a wildfire detection system that uses an array of CO_2 sensors (2) and artificial intelligence. This system comprises a sensorial unit (1), a gateway (G) to relay sensorial unit data to a designated server (R) and a software (S) with a designed algorithm for processing the incoming data and trigger the fire alarms whenever it is necessary. In another aspect, the present invention relates to a method of detecting an environmental fire in its early stage by using the system described herein. Therefore, the present invention is in the domain of electronic devices for detection of environmental fires.

[Continued on next page]

WO 2019/244094 A1

A. CLASSIFICATION OF SUBJECT MATTER
INV. G08B17/00
ADD. G08B17/06 G08B17/117 G08B25/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
G08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	CA 2 770 661 A1 (FLAMESNIFFER PTY LTD [AU]) 7 September 2012 (2012-09-07) page 4, lines 37-42 page 5, lines 1-30 page 7, lines 23-43 page 6, lines 15-28	1-9,12, 13 10,11,14
X	CN 205 302 541 U (TIANJIN ARMY LEAGUE TECH CO LTD) 8 June 2016 (2016-06-08) page 4	1-9
Y	WO 2017/137393 A1 (TYCO FIRE & SECURITY GMBH [CH]) 17 August 2017 (2017-08-17) page 15, lines 20-33	11,14
Y	US 9 619 996 B1 (SMITH KYLE B [US]) 11 April 2017 (2017-04-11) column 4, lines 36-63	10

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
29 November 2019	10/12/2019
Name and mailing address of the ISA: European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax (+31-70) 340-3016	Authorized officer Dascalu, Aurel

1

Muchas gracias por su atención