HERRAMIENTAS BÁSICAS PARA LA INVESTIGACIÓN DEL ESTADO DE LA TÉCNICA SOBRE LA BASE DE DOCUMENTOS DE PATENTES

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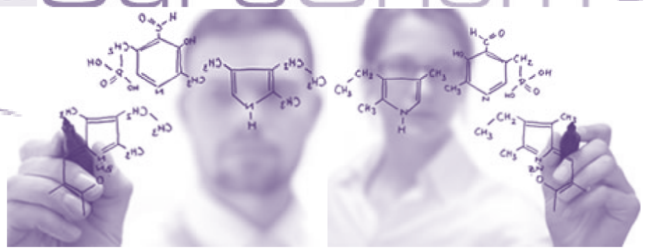
Oficina Cubana de Propiedad Industria (OCPI)

Abril 2011



DEFINICIÓN DEL ESTADO DE LA TÉCNICA

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Todo lo que esté o haya sido puesto a disposición del público en cualquier lugar del mundo, de forma escrita u oral o mediante su uso, venta, comercialización, exhibición o por cualquier otro medio, incluyendo los conocimientos tradicionales de comunidades indígenas o locales.

Objetivos de consulta del estado de la técnica

- Examen de patentes.
- Explotar la tecnología de solicitudes de patentes que no hayan sido concedidas y de las que no sean válidas en determinados países o ya no estén vigentes.
- Evitar la redundancia en proyectos de investigación – desarrollo de nuevos productos, procedimientos y los consiguientes gastos implicados en los mismos.
- Valorar la patentabilidad de las invenciones propias.
- Orientar adecuadamente las decisiones de explotación: concesión de licencias, alianzas tecnológicas, fusiones.
- Como soporte en los procesos de adquisición de tecnologías.
- Determinar las tendencias principales en determinadas tecnologías y sectores (Vigilancia e Inteligencia Tecnológica)

Herramientas de búsqueda y recuperación

- INTERNET COMO FUENTE DE INFORMACIÓN: Visible, invisible. Buscadores, metabuscadores, agentes de búsqueda, etc.
- FUENTES DE INFORMACIÓN COMERCIAL: Productos, empresas, mercados.
- FUENTES DE INFORMACIÓN TECNOLÓGICA: Bases de datos de patentes y de literatura científico – técnica, etc.

FUENTES DE INFORMACIÓN TECNOLÓGICA

Observaciones "in situ"

- Instalaciones industriales
- Pruebas de equipos o componentes

Expertos

- Contactos profesionales
- Consultores
- Reuniones informales

Contactos a nivel organizativo

- Ferias
- Reuniones
- Asociaciones
- Literatura técnica

Literatura técnica

- Publicaciones
- Documentos no publicados
- Ponencias y comunicaciones en eventos
- Patentes

Asthon y Stacey, 1995

DOCUMENTOS DE PATENTES COMO FUENTE DE INFORMACIÓN

- La patente es un documento legal que implica el reconocimiento por parte del estado un monopolio: el del solicitante sobre su invento, por un plazo determinado y bajo unas condiciones específicas.
- La condición principal es que el invento sea DESCRITO suficientemente para resistir un examen de acuerdo a requisitos de patentabilidad (novedad, actividad inventiva y aplicabilidad industrial) y DIVULGADO para su reconocimiento.
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- Únicamente en un país o grupo de países: Se generan fondos de documentos de patentes nacionales, regionales y de solicitudes internacionales (PCT) de acceso gratuito.

Documentos de patentes: Se refiere a publicaciones correspondientes a solicitudes de patentes y patentes concedidas.

IMPORTANCIA DE LOS DOCUMENTOS DE PATENTES

- Entre el 70% y 90% de la información en materia de patentes no se ha publicado en otro medio. Las solicitudes de patentes suelen ser la primera publicación de una invención y pudiera constituir la única.
- Se estima en más de 70 millones como parte importante de la literatura técnica.
- Deben proporcionar INFORMACIÓN TÉCNICA suficiente sobre la invención para que pueda ser puesta en la práctica por un experto en la materia.
- Brindan INFORMACIÓN EMPRESARIAL relevante y difícil de conseguir por otros medios (inventor, empresa solicitante o titular).
- Los documentos de patentes forman FAMILIAS DE PATENTES (los miembros de una familia constituyen un indicador relevante del valor que al menos para el solicitante, tiene la tecnología que se pretende proteger y los mercados en los que actúa).
- Contienen INFORMACIÓN LEGAL sobre cuál es el objeto protegido por el derecho.

Artículos que estudian el tipo de información publicada sólo en patentes

ELSEVIER

World Patent Information 27 (2005) 309–315

WORLD PATENT INFORMATION

www.elsevier.com/locate/worpatin

Patents: A unique source for scientific technical information in chemistry related industry?

Mervyn Bregonje *

Cobidoc BV, Kabelweg 37, 1014 BA Amsterdam, The Netherlands

Abstract

A study was done to find the source of first publication and the number of non-patent publications from those whose first publication is in patent literature. Patent information is not always used as source for scientific technical information; however information disclosed in patents does not always appear in non-patent literature later. The latest studies published on the uniqueness of information disclosed in patents were Liebesny [Liebesny F et al. The scientific and technical information contained in patent specifications. The extent and time factors of its publication in other forms of literature. Inform Scientist 1974;8(4):165–77 [Reprint]] and Terapane [Terapane JF. A unique source of information. Chemtech 1978;8:272–76]. This study was undertaken to have current data on what we are missing when patent information is not used in the area of chemistry information. Looking at a sample of substance information reported in both patent and journal literature represented in the CAS databases suggests that a significant amount of this information does appear in patents before it is reported elsewhere; in some cases the disclosure in patents may truly be the only report.

Keywords: Patent disclosures; Journals disclosures; Literature disclosures; Information systems; Chemical industry; Polymers; Chemical compounds

En Química, las patentes constituyen la primera fuente de publicación de compuestos y sus usos

(1) In most areas of chemistry, patents are a rich source of first publication (see, for example, Table 1, Fig. 3).
(2) In most fields of chemistry the proportion of compounds in which patents are the first source of publication is increasing with time (see, for example, Fig. 3).
(3) Patents are most often the first source of information for uses of compounds (see, for example, Fig. 4).
(4) If information is disclosed first in a patent there is a small chance that it is published later again in non-patent literature, i.e. if information is disclosed first in a patent, it is often the only source of that information (see, for example, Table 1).
(5) If the information is republished in non-patent literature, it is often spread over a long time period (see, for example Fig. 5).

Si la información se publicó primero en patentes existen pocas probabilidades que se publique en otro tipo de fuentes, y además si se publica suele ser algún tiempo después.

BASES DE DATOS DE PATENTES (Listado no exhaustivo)

BASES DE DATOS DE PATENTES

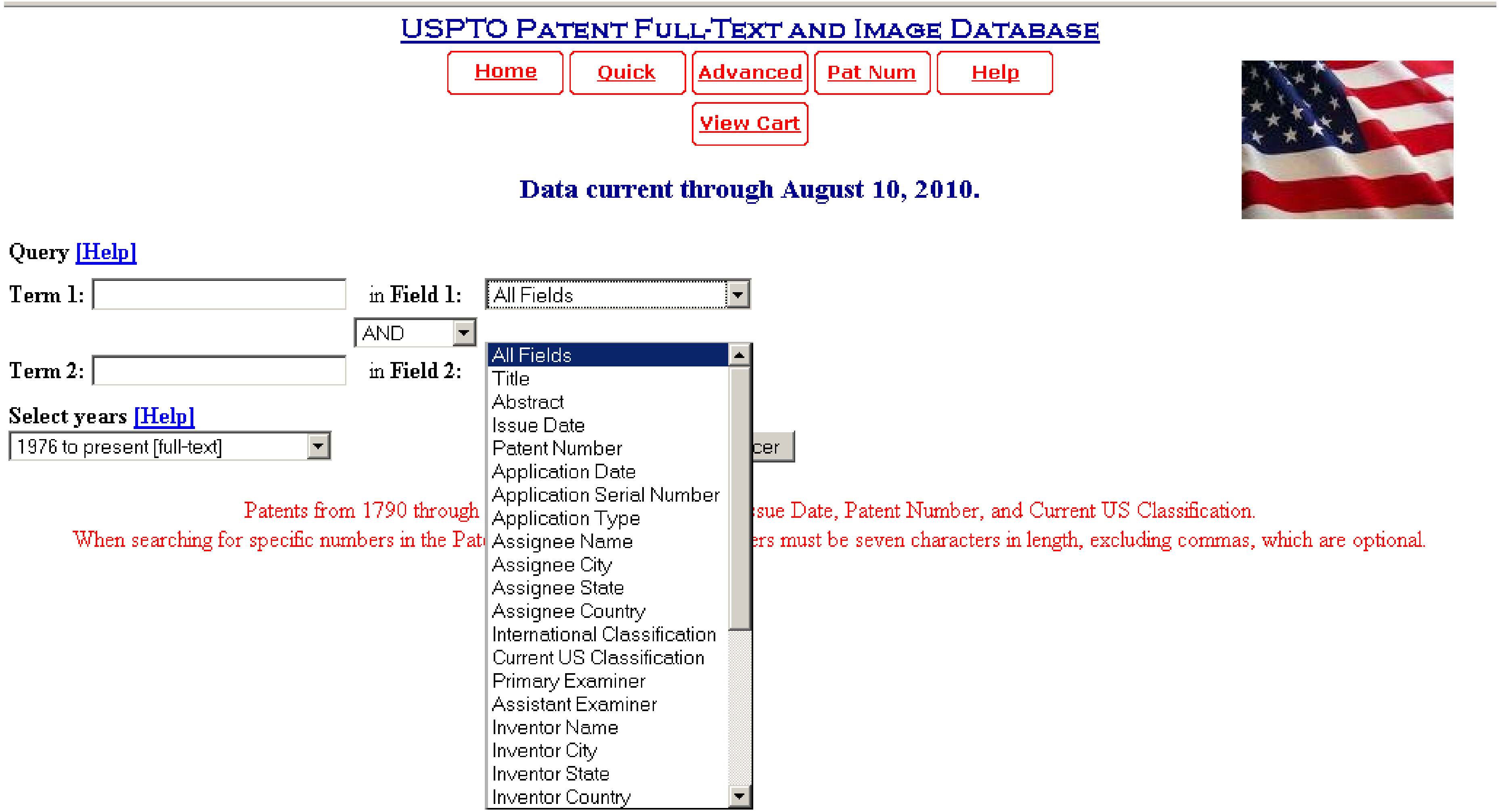
- NACIONALES: USPTO, Google Patents, SIPO, PAJ, KIPRIS, INVENES, CIPO
- SUPRANACIONALES:
  - GRATUITAS: Patentscope©, European Publication server (EPO), esp@cenet worldwide, Latipat (EPO), Depatisnet (DPM), Freepatentsonline, Patent lens, SURF-IP (IPOS),
  - DE PAGO: Surechem, QPAT (Questel-Orbit), Delphion, MicroPatent, Derwent (Thomson Reuters), Total Patent (Lexis Nexis), PatBase (Minesoft)

BASES DE DATOS DE PATENTES Y LITERATURA NO PATENTE

- GRATUITAS: Scirus
- DE PAGO: Dialog (Proquest), Thomson Innovation (Thomson – Reuters), Chemical Abtracts Service (CAS), American Petroleum Institute Patents (APIPAT), Medline, Food Science and Technology Abstracts®, IPA

Bases de datos nacionales

Country/Organization	URL
Alemania	http://www.dpma.de/suche/suche.html
América latina	http://lp.espacenet.com/
Australia	http://www.ipaustralia.gov.au/patents/search_index.htm
Canadá	http://patents1.ic.gc.ca/intro-e.html
Chile	http://www.dpi.cl/dpi_web/Frm_Login_default2.htm
China	http://ensearch.sipo.gov.cn/sipoensearch/search/tabSearch.do?method=init
Eslovaquia	http://www.indprop.gov.sk/eskipo.php?lang=en&idd=2&idd2=
Eslovenia	http://www2.uil-sipo.si/dse.htm
España	http://invenes.oepm.es
Estados Unidos de América	http://www.uspto.gov/patft/index.html http://tess2.uspto.gov/bin/gate.exe?f=login&p_lang=english&p_d=trmk
Federación de Rusia	http://www1.fips.ru/wps/wcm/connect/content_en/en/main/
Finlandia	http://www.prh.fi/en/patentit/tietokannat/patinfo.html
Francia	http://www.plutarque.com
Hungría	http://www.hpo.hu/English/adatbazis/
India	http://www.pfc.org.in/db/db.htm
Irelanda	http://www.patentsoffice.ie/eregister/Query/PTQuery.asp
Japón	http://www.ipdl.inpit.go.jp/homepg_e.ipdl
La Oficina de registro de la marcas, dibujos y modelos de la Unión Europea	http://oami.europa.eu/en/default.htm
Nueva Zealandia	http://www.iponz.govt.nz/search/cad/dbssiten.main
Reino Unido	hhttp://www.ipo.gov.uk/patent.htm
República de Corea	http://k2epat.kipris.or.kr/k2epat/searchLogina.do?next=GeneralSearch (Basic Search) http://k2epat.kipris.or.kr/k2epat/searchLogina.do?next=ItemSearch (Advanced Search)
República Checa	http://isdvapl.upv.cz/pls/portal30/pt.ptfrm
Rumania	http://193.230.133.4/cgi-bin/invsearch
Singapur	http://www.epatents.gov.sg/PE/
Suiza	http://www.swissreg.ch
Tailandia	http://www1.ipic.moc.go.th/dipdcd/owa/p5query1.main?LANG=1



Patent Full-Text and Full-Page Image Databases incluye información anterior ya que recoge documentos desde 1790, aunque hasta 1976 no son interrogables más que por número de patente, fecha de publicación y Clasificación Americana de Patentes. A partir de esta fecha, ya están disponibles tanto los registros textuales como las imágenes de todos los documentos.

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Examples:
ttl/(tennis and (racquet or racket))
isd/1/8/2002 and motorcycle
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A partir de 1976

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1976 to present [full-text]

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1790 to present [entire database]

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Field Code	Field Name	Field Code	Field Name
PN	Patent Number	IN	Inventor Name
ISD	Issue Date	IC	Inventor City
TTL	Title	IS	Inventor State
ABST	Abstract	ICN	Inventor Country
ACLM	Claim(s)	LREP	Attorney or Agent
SPEC	Description/Specification	AN	Assignee Name
CCL	Current US Classification	AC	Assignee City
ICL	International Classification	AS	Assignee State
APN	Application Serial Number	ACN	Assignee Country
APD	Application Date	EXP	Primary Examiner
PARN	Parent Case Information	EXA	Assistant Examiner
RLAP	Related US App. Data	REF	Referenced By
REIS	Reissue Data	FREF	Foreign References
PRIR	Foreign Priority	OREF	Other References
PCT	PCT Information	GOVT	Government Interest
APT	Application Type		

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Véase: http://www.google.com/patents

http://59.151.99.140/sipo_EN/search/tabSearch.do?method=init

TITLE: Head simulation model used for brain nerve magnetic stimulation induction electric field detection

Application Number	200910067933	**Application Date**	2009.02.24
Publication Number	101488297	**Publication Date**	2009.07.22
Priority Information			
International Classification	G09B23/28		
Applicant(s) Name	Institute of Biomedical Engineering, Chinese Academy of Medical Sciences		
Address			
Inventor(s) Name	Liu Zhipeng;Yin Tao;Zhang Shunqi;Li Song;Pu Lina		
Patent Agency Code	12201	**Patent Agent**	zhang hongxiang

Abstract

The invention discloses a head simulation model for the detection of magnetic stimulation induction electric field in cranial nerves, comprising a sphere structure with an opening. The sphere structure comprises an external scalp simulator layer and a skull simulator layer located inside the scalp simulator layer; the skull simulator layer is filled with cerebral cortex tissue simulator solution, a colloid layer having the electric conductivity and relative dielectric constant same as a scalp layer is filled between the scalp simulator layer and the skull simulator layer; the electric conductivity and relative dielectric constant of the scalp simulator layer, the skull simulator layer and the cerebral cortex tissue simulator solution are in proximity to the electric conductivity and relative dielectric constant of real human body tissues within a magnetic simulation frequency band range of 1-10kHz. The invention is much more close to the conditions of the real human head as the construction and parameters thereof are designed according to the physiological structure and electric property parameters of the real human head. Therefore, the cranial nerves magnetic simulation related experiments and researches are implemented by using the model to obtain better experimental precision, thus having higher value for medical research.

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Application: 200910067933

Claim

1. a head simulation model that is used for cranial nerve magnetism excitement to answer the electric field to detect including being provided with open-ended spheroid structure, characterized in, said spheroid structure includes the imitative body layer of the scalp of outside, lies in the imitative body layer of a skull of the imitative body layer the inside of scalp, and it has cerebral cortex tissue imitate the liquid solution to pack at the imitative body in situ of skull, and it has the colloid layer that the conductivity is the same with the relative dielectric constant of imitating the layer of personally experiencing sth. part of the body with the scalp to pack between the imitative body layer of said scalp and the skull imitative body layer; In the amazing frequency channel 1-10kHz scope of magnetism, the conductivity on the imitative body layer of said scalp is 8.1 10^{-2}- 5 10^{-1}S/m, the relative dielectric constant is 2.9 10^{4}- 3.2 10^{4}, the conductivity on the imitative body layer of said skull is 5.0 10^{-3}- 2.5 10^{-2}S/m, the relative dielectric constant is 5.2 10^{2}- 2.7 10^{3}, the conductivity 9.9 10 of liquid solution is imitated to said cerebral cortex tissue^{-2}- 5.2 10^{-1}S/m, the relative dielectric constant is 2.2 10^{4}- 1.6 10^{5}。

2. according to the said head simulation model that is used for cranial nerve magnetism excitement to answer the electric field to detect of claim 1, characterized in: the SnO that the mass ratio is 5%-10% aluminic acid yttrium and 5.5%-30% is added by liquid silicon rubber in the imitative body layer of said scalp$_2$High temperature is mixing, goes into the mould vulcanization and makes.

3. according to the 1 or 2 said head simulation models that are used for cranial nerve magnetism excitement to answer the electric field to detect of claim, characterized in: the imitative body layer of said skull is mixed by the acetylene black that barium titanate joining mass ratio is 1%-7%, makes behind the sintering.

4. according to the said head simulation model that is used for cranial nerve magnetism excitement to answer the electric field to detect of claim 1, characterized in: the imitative liquid solution of said cerebral cortex tissue is made by the potassium chloride powder mixing that the sugar juice joining mass ratio that the mass ratio is 40%-45% is 0.01%-0.15%.

5. according to the said head simulation model that is used for cranial nerve magnetism excitement to answer the electric field to detect of claim 1, characterized in: said colloid layer is the agar heating back that is 0.15%-0.3% by concentration, adds the NaCl mixing that the mass ratio is 1%-28%, and the cooling is made.

Translation By Page Translate Again Description

Plain Text Translation Text Translation

Searching PAJ

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Applicant,Title of invention,Abstract --- e.g. computer semiconductor

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AND

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Date of publication of application --- e.g.19980401 - 19980405

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AND

IPC --- e.g. D01B7/04 A01C11/02

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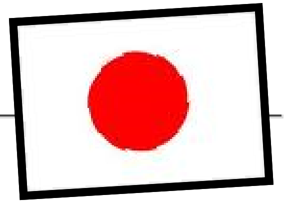


http://www.ipdl.inpit.go.jp/homepg_e.ipdl Fecha de consulta: Abril 2011

No.	Publication No.	Title
1.	2010 - 104750	METHOD AND DEVICE FOR REGULATION OF HEART RATE AND BLOOD PRESSURE
2.	2010 - 082400	CELL DEDIFFERENTIATION METHOD, CELL DEDIFFERENTIATION APPARATUS, AND CELL DEDIFFERENTIATION EVALUATION METHOD
3.	2009 - 281728	STIMULATION RESPONSIVE NOBLE METAL/MAGNETIC PARTICULATE COMPOSITE
4.	2009 - 261814	COIL, DEVICE, AND SYSTEM FOR MAGNETIC STIMULATION
5.	2009 - 247691	IN-RECTUM ROTATOR, DETECTION DEVICE, AND RECTAL STIMULATION DEVICE
6.	2009 - 189689	SHOULDER PAD FOR HEALTH
7.	2009 - 142607	HEALTH TOOL
8.	2009 - 119080	FARADAY SHIELD COMPONENT AND BIOINFORMATION MEASURING METHOD
9.	2009 - 039326	CONVERGING MAGNETIC FIELD GENERATION COIL FOR TRANSCRANIAL MAGNETIC STIMULATION
10.	2009 - 034404	METHOD AND APPARATUS FOR DETECTING BRAIN FUNCTION
11.	2009 - 022660	APPARATUS FOR ANALYZING BRAIN FUNCTION
12.	2008 - 301902	CEREBRAL FUNCTION REHABILITATION APPARATUS
13.	2008 - 283981	METHOD FOR SEPARATING EPITHELIAL CELL, METHOD FOR PRECONDITIONING CELL, AND METHOD FOR PREPARING BIOLOGICAL ARTIFICIAL SKIN OR DERMIS BY USING THE EPITHELIAL CELL OR THE PRECONDITIONED CELL
14.	2008 - 272497	COIL OPTIMIZATION FOR MAGNETIC STIMULATION
15.	2008 - 264014	MAGNETIC RESONANCE IMAGING APPARATUS AND MAGNETIC RESONANCE IMAGING METHOD
16.	2008 - 246040	DEVICE FOR STIMULATION OF SENSITIVE NERVE PECULIAR TO TRIGEMINAL NERVE
17.	2008 - 194226	SLEEP INDUCING APPARATUS
18.	2008 - 180652	DIRECTION PRESENTING SYSTEM, AND MOTORIZED WHEELCHAIR, STICK, AND GAME CONTROLLER THEREWITH
19.	2008 - 149028	DEVICE FOR GENERATING MAGNETIC STIMULATION PATTERN, MAGNETIC STIMULATION DEVICE, ITS CONTROL PROGRAM, COMPUTER READABLE RECORDING MEDIUM WITH THE CONTROL PROGRAM RECORDED THEREIN, SYSTEM FOR GENERATING MAGNETIC STIMULATION, AND CONTROL METHOD
20.	2008 - 093466	COIL FOR MAGNETIC STIMULATION
21.	2008 - 093380	PAIN TREATMENT BAND
22.	2008 - 079712	MOTOR SKILL IMPROVING METHOD AND MOTOR SKILL EVALUATION DEVICE
23.	2008 - 018099	STIMULATION DEVICE USING INFRASONIC AC MAGNETIC FIELD

Traducción

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2008-246040
(43)Date of publication of application : 16.10.2008

(51)Int.Cl. *A61M 21/00 (2006.01)*
A61N 1/36 (2006.01)

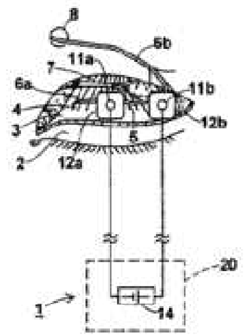
(21)Application number : 2007-092886
(22)Date of filing : 30.03.2007

(71)Applicant : SHINSHU UNIV
(72)Inventor : MATSUO KIYOSHI

(54) **DEVICE FOR STIMULATION OF SENSITIVE NERVE PECULIAR TO TRIGEMINAL NERVE**

(57)Abstract:
PROBLEM TO BE SOLVED: To provide a simple and compact device for awakening or straining a whole body or keeping the state only by extremely weakly stimulating the nerve of an upper eyelid without using a large scale of therapy device for directly stimulating the brain with a strong pulsed magnetic field.
SOLUTION: A device 1 for stimulation of sensitive nerve peculiar to trigeminal nerve includes at least one kind of elements among electrodes 11a, 11b for allowing a DC current to flow, by which a sensitive nerve 6a peculiar to trigeminal nerve transversely passing at the upper end of the human upper eyelid 2 is stimulated at the front side or inner side of the eyelid 2, and a coil for allowing the electric current to flow and generating the magnetic field.

図 1



JAPANESE [JP,2008-246040,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION TECHNICAL PROBLEM MEANS EXAMPLE DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

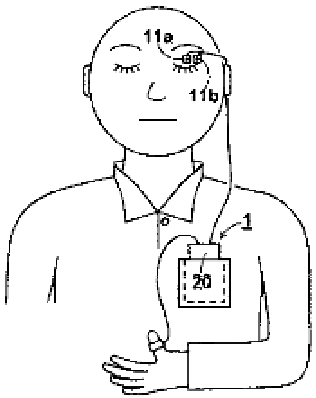
CLAIMS

[Claim(s)]
[Claim 1]
Trigeminal nerve proprioceptive sensation branch stimulator characterized by a thing of an electrode which stimulates a trigeminal nerve proprioceptive sensation branch which side-** a human upper eyelid upper bed by a side front of an eyelid, or the inside of an eyelid, and which sends a direct current, and a coil which sends current and generates a magnetic field for which it has which element at least.
[Claim 2]
The trigeminal nerve proprioceptive sensation branch stimulator according to claim 1, wherein said element is stuck on a side front of said eyelid.
[Claim 3]
The trigeminal nerve proprioceptive sensation branch stimulator comprising according to claim 1:
A sensor which detects said Homo sapiens's living body moving state.
A discriminator which change of this living body moving state detected by the sensor exceeds a change region of the living body moving state in time of peace, and discriminates from it being in a sleepiness state.
A switching circuit which sends said current through said element with a current conduction signal which leads to this circuit and is sent from there according to this discrimination.

[Claim 4]
Said living body moving state Body temperature, a blood stream, blood pressure, a pulse, an electrocardio waveform, a myo-electric-signal waveform, An electroencephalogram waveform, a breathing rate,

Drawing selection Drawing 3

図 3



[Translation done.]

☐ Eng-Kor | ☑ Patent ☑ Utility model Status Entire

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30 items per page

- Free Search(Full Text)
- Abstract(AB)
- Claims(CL)
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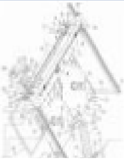
- Application Date(AD)
- Unex. Pub. Date(OPD)
- Publication Date(PD)
- Registration Date(GD)
- Priority Date(RD)
- Int'l Application Date(FD)
- Int'l Unex. Pub. Date(FOD)
- Applicant/Code/Address (AP)
- Inventor/Code/Address (IN)
- Agent/Code/Address (AG)
- Patentee/Address(RG)
- Application No. (AN)
- Unex. Pub. No. (OPN)
- Publication No. (PN)
- Registration No. (GN)

...wing All drawings Group (1 - 30 of 48) ALL : 2,863,319case Application No. 1 2

			...plication No.	Status	Title of invention	IPC	Applicant	Registration No.	Full Doc
☐			...0090016432	Unexamined	제지용 중질탄산칼슘의 잔류 폐기물을 이용하여 생석회 및 탈황용 소석회를 제조하는 방법(Preparation Method of Quicklime and Hydrated Lime for Removing Sulfur Oxides Using Residual Wastes of Ground limestone for Paper Manufacture)	C01F 11/06	TAE YOUNG LIMESTONE CO., LTD		See 전문보기-영문
☐			...9990040458	Rejected	킬른 로 배가스를 이용한 생석회 수화 억제방법(A METHOD FOR REPRESSION QUICKLIME HYDRATION BY USINGKILN FURNACE EXHAUST GAS)	C04B 2/02	POSCO		See 전문보기-영문
☐	3		1020010008837	Registered	반응지연성생석회의 제조방법 (METHOD FOR MANUFACTURING QUICKLIME HAVING REACTIONRETARDATION)	C01F 11/02	DCR SYSTEM CO.,LTD ...	1003910610000	See 전문보기-영문
☐	4		1020020066546	Rejected	생석회와 전로 슬래그를 이용한 미소화 슬러지의 안정화 및 고화 처리 방법(Method of the stabilization and solidification of rawsludge cake using quicklime and converter slag)	C04B 18/30	김응호		See 전문보기-영문
☐	5		1020020058825	Registered	슬래그 개질을 위한 생석회 용해 촉진재 및 그 투입 방법(Melting accelerating material of quicklime forreforming slag and the input method thereof)	C21C 7/00	POSCO	1008793520000	See 전문보기-영문
☑	6		1020010085265	Registered	수직형 입형 소성로에 있어서의 생석회 품질 제어장치 및제어방법 (Apparatus for controlling quicklime	C04B 2/10	POSCO	1007757510000	See 전문보기-영문
☐	7		1020010...				POSCO	1007617200000	See 전문보기-영문

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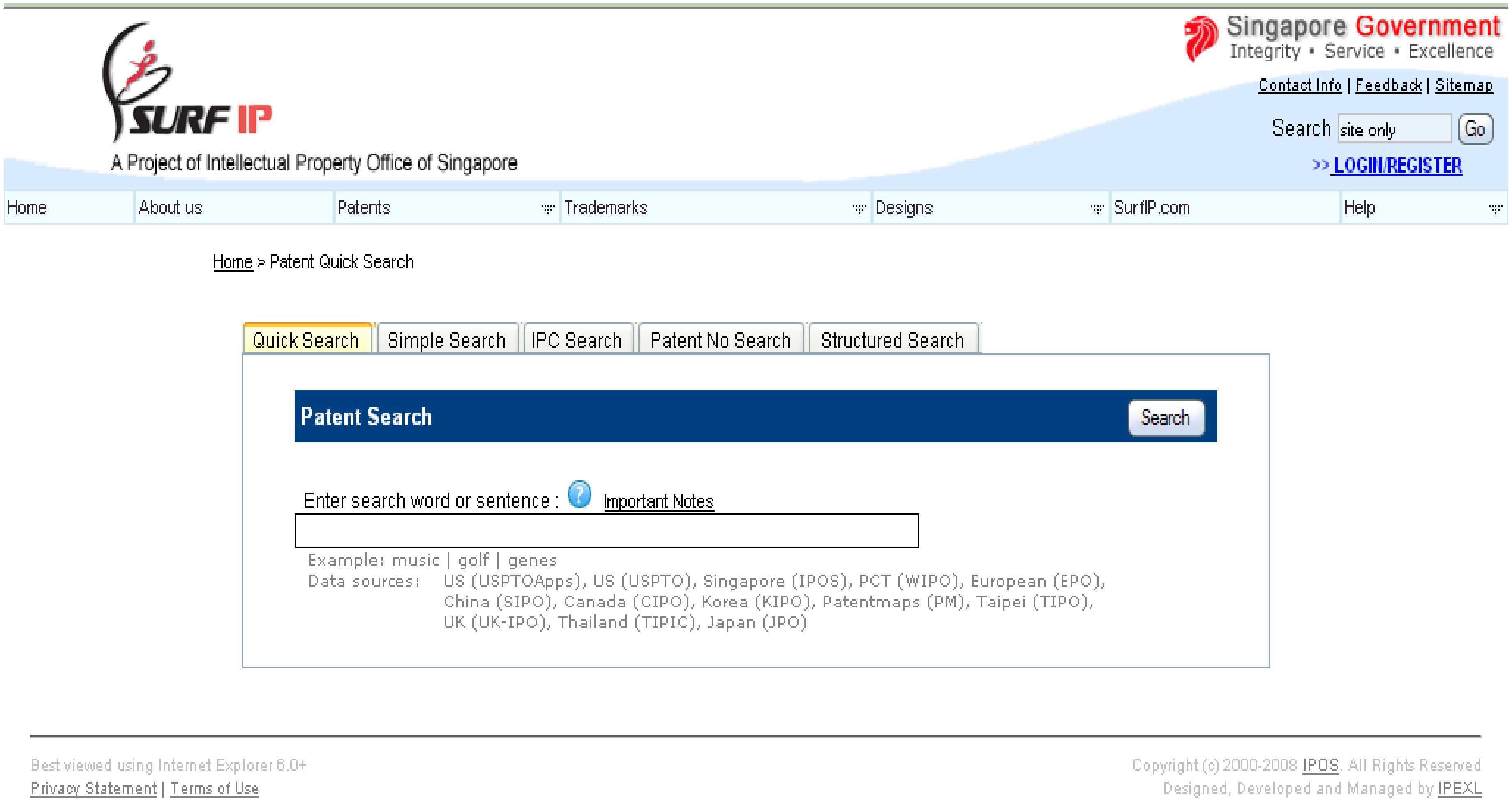

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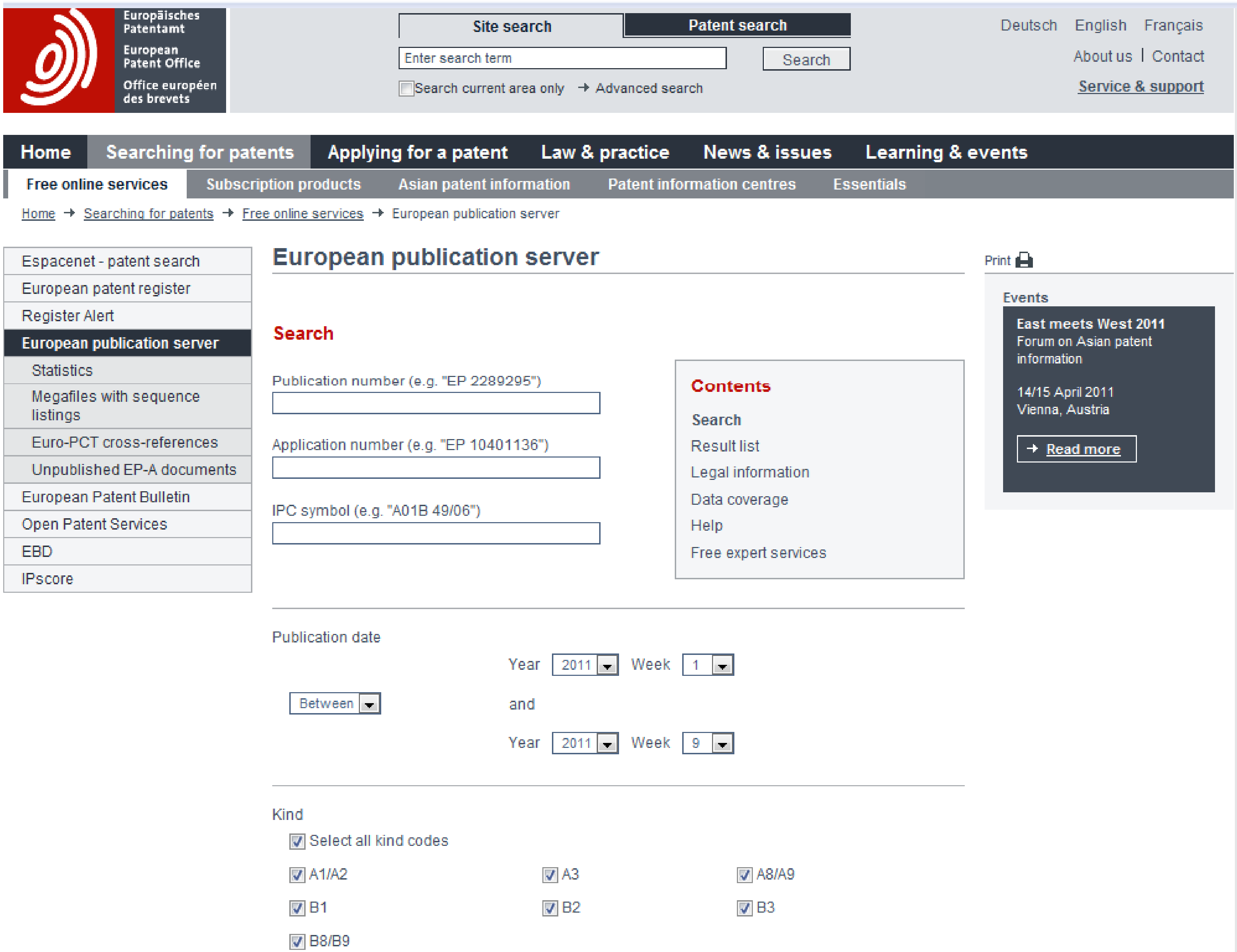

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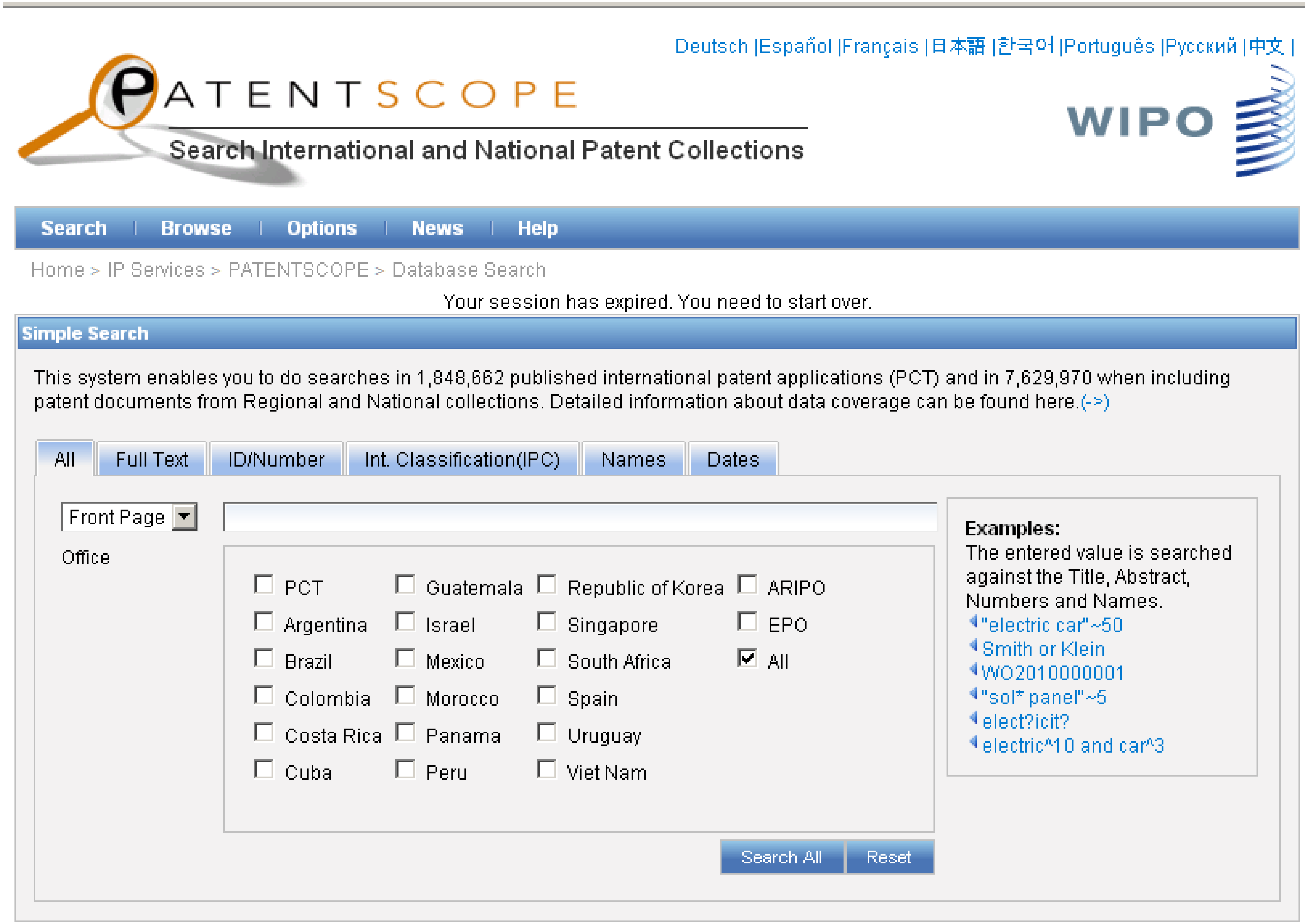
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PCT	20.10.1978 - 25.02.2011	20.10.1978 - 25.02.2011	1848662	Total records: 1624817 English: 1231980 French: 74982 Spanish: 12109 German: 233586 Korean: 7151 Japanese: 51930 Russian: 10803 Portuguese: 37	1848662	
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Cuba	13.03.1968 - 09.09.2009	13.03.1968 - 09.09.2009	2027	Total records: 1569 Spanish: 1569	2030	
Guatemala	31.12.1961 - 13.10.2010	31.12.1961 - 13.10.2010			4496	
Israel	02.01.1900 - 01.07.2010	17.07.2000 - 17.06.2010	108298	Total records: 89071 English: 89071	150517	
Mexico	02.12.1991 - 25.03.2010	02.12.1991 - 25.03.2010	173231	Total records: 138592 Spanish: 138592	195540	
Morocco	07.07.1977 - 02.06.2010	02.04.1999 - 02.06.2010	9094	Total records: 8741 French: 8741	12882	
Panama	19.12.2003 - 28.07.2010	19.12.2003 - 28.07.2010	89		314	
Peru	22.02.1989 - 01.10.2010	22.02.1989 - 01.10.2010			2987	
Republic of Korea	24.10.1973 - 31.07.2010	24.10.1973 - 31.07.2010			1515708	
Singapore	29.11.1995 - 30.09.2010				72373	
South Africa	26.01.1984 - 31.07.2008	31.01.1985 - 31.07.2008	121834	Total records: 84187 English: 84187	110037	
Spain	02.01.1930 - 16.06.2010	17.06.1935 - 16.06.2010	493137	Total records: 463084 Spanish: 463084	929109	
Uruguay	17.08.1990 - 01.10.2010	17.08.1990 - 01.10.2010	352		4819	
Viet Nam	26.05.1997 - 27.04.2010	26.05.1997 - 26.09.2007			20476	
ARIPO	04.07.1985 - 29.07.2008	04.07.1985 - 29.07.2008	1328		1868	
EPO	26.10.1977 - 24.10.2010	26.10.1977 - 24.10.2010		Total records: 1069606 English: 751489 French: 74039 German: 244078	2206607	

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RSS

	Título	Fecha de Pub.	Clasificación Int.	N° de sol.	Solicitante
1.	(WO 2010/006389) **EOLIC** CONVERTER TOWER	21.01.2010	F0...	PCT/BR2008 /000218	DULCETTI FILHO, Flávio, Francisco

The present invention relates to a **eolic** converter tower (1) having an innovative concept wherein a rotary ... ucture made of metal or other materials slides horizontally around a vertical reinforced concrete megatower having several levels and m... rotate under the force of the wind and transmit this force to a steering wheel (52) and rack (60) assembly, which in turn trans... ator (38) sets, transforming wind **energy** into high-power electric **energy**.

Análisis estadísticos de resultados

	Título	Fecha de Pub.	Clasificación Int.	N° de sol.	Solicitante
2.	(WO 2009/016664) LOW **ENERGY** CONSUMPTION CLIMATE CONTROL SYSTEM	05.02.200...		...T/IT2007 ...00553	CAEBIT S.r.l.

In a climate control system for buildings, a number of renewable **energy** sources (photovoltaic ... like) are utilised to obtain a flux of constant temperature fluid to be circulated into radiating pipes placed in continuous space... al walls and floors of said buildings. A desired variable flux of air is made to circulate in said spaces or gaps, to be heated or coiled by said radiating pipes. One said flux of air reaches the desired temperature, its circulation is stopped, to obtain a thermal insulating layer of air, in thermal equilibrium with the rooms to be air conditioned.

	Título	Fecha de Pub.	Clasificación Int.	N° de sol.	Solicitante
3.	(WO 2009/016163) LOW **ENERGY** CONSUMPTION CLIMATE CONTROL SYSTEM AND METHOD FOR THE REALIZATION OF HIGH HEAT-SOUND INSULATION BUILDING	05.02.2009	F24F 5/00	PCT/EP2008 /059899	CAEBIT S.r.l.

In a climate control system for buildings, a number of renewable **energy** sources (photovoltaic and/or **eolic**, geothermal and the like) are utilised to obtain a flux of constant temperature fluid to be circulated into radiating pipes placed in continuous spaces or gaps defined in the perimeter walls and floors of said buildings. A desired variable flux of air is made to circulate in said spaces or gaps, to be heated or coiled by said radiating pipes. One said flux of air reaches the desired temperature, its circulation is stopped, to obtain a thermal insulating layer of air, in thermal equilibrium with the rooms to be air conditioned. In the matters of civil, trade, industrial, and also prefabricated buildings endowed with elevated features in...

	Título	Fecha de Pub.	Clasificación Int.	N° de sol.	Solicitante
4.	(WO 2008/102394) VEHICLE WITH ELECTRIC MOTOR SUPPORTED BY AN **EOLIC** GENERATOR	28.08.2008	B60L 8/00	PCT/IT2008 /000067	FERRARA, Arturo

A vehicle in which the main motor is represented by an electric motor (a). **Energy** to this motor is supplied in two ways: one way by rechargeable batteries (c), and another way by an **eolic** generator (b) situated in areas which are exposed to the actions of wind when the vehicle moves. The batteries are equipped with electrical sockets (d), that can function as a line in to recharge the flat batteries (after a long period of standstill), or as a line out functioning as

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(WO/2009/016163) LOW ENERGY CONSUMPTION CLIMATE CON... AND METHOD FOR THE REALIZATION OF HIGH HEAT-SOUND INSUL... BUILDING

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Fecha	Título		
23.08.2010	Informe sobre la situación de la solicitud internacional	ver	descargar

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Fecha	Título		
05.02.2009	Publicación inicial con informe de búsqueda internacional (A1 06/2009)	ver	descargar

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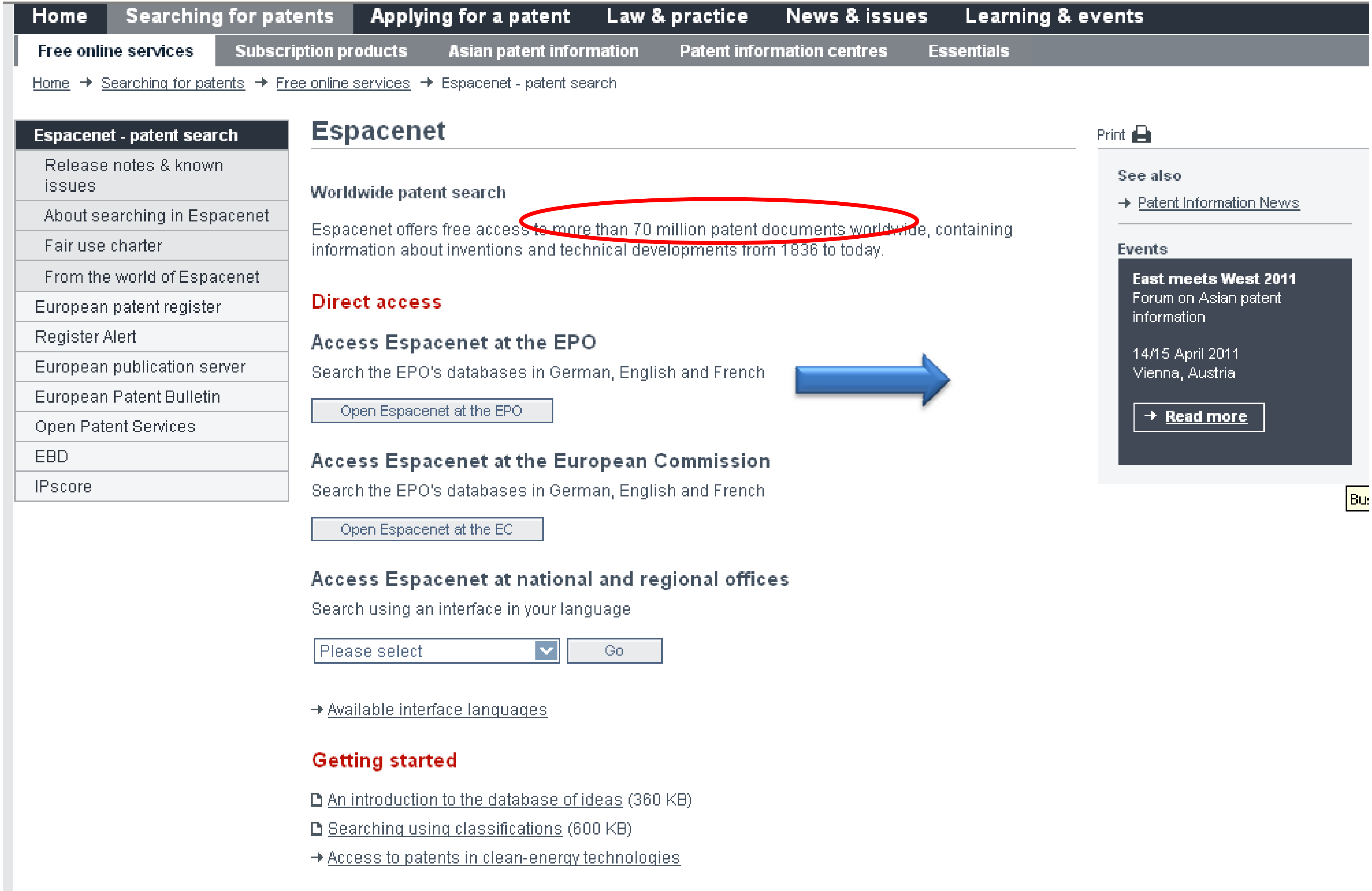
Entrada en fase nacional

1. (WO2007044893) COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION

PCT Biblio. Data | Description | Claims | National Phase | Notices | Documents

Available information on National Phase entries(more information)

Office	Entry Date	National Number	National Status
African Regional Intellectual Property Org. (ARIPO)	04.04.2008	AP/P/2008/004425	
Australia	05.05.2008	2006301966	Published: 29.05.2008
Canada	01.04.2008	2624333	
Egypt	30.03.2008	2008030526	
European Patent Office (EPO)	05.05.2008	2006816857	Published: 10.12.2008 Granted: 29.12.2010
Israel	24.03.2008	190404	
Japan	10.04.2008	2008535702	
New Zealand	09.05.2008	568135	
Philippines	08.04.2008	12008500835	
United States of America	08.10.2008	12089895	Published: 09.04.2009



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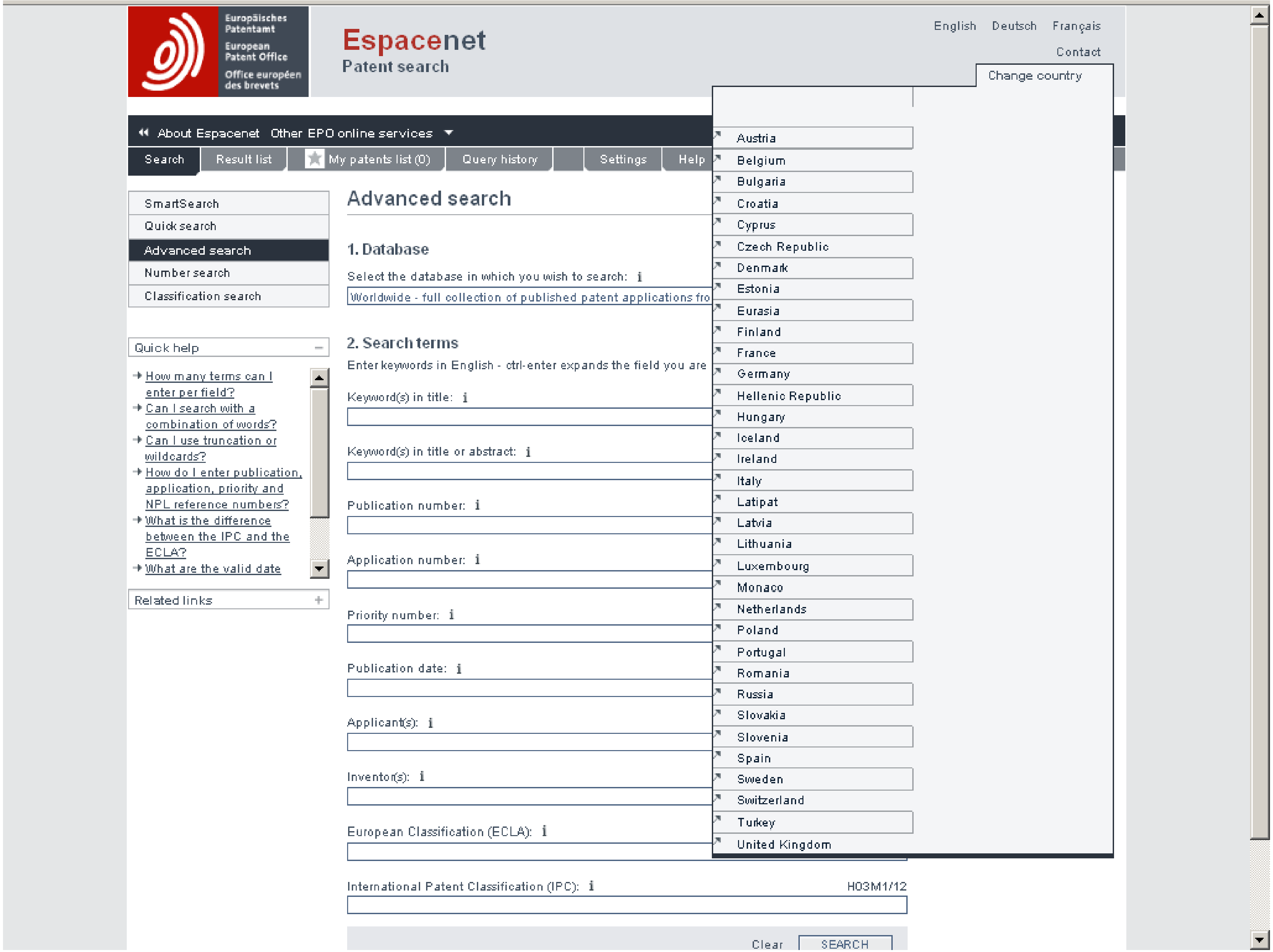

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1. Chemically toughenable lithium-containing borosilicate glass, for ophthalmic lenses, has high sodium, lanthanum, niobium and titanium oxide contents and a low calcium oxide content

Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
	CORNING INC [US]	C03C21/00B2 C03C3/068	C03C21/00 C03C3/068 G02B1/00 (+4)	DE10004596 (A1) 2000-08-10	1999-02-03

2. IMPLANT HAVING A CALCIUM PHOSPHATE COATING DEPOSITED ON A SUBSTRATE SURFACE OF THE IMPLANT WHICH HAS BEEN BLASTED WITH ALUMINIUM OXIDE PARTICLES

Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
JANSEN JOHN [NL] WOLKE JOOP [NL] (+1)	ASTRAZENECA AB [SE] JANSEN JOHN [NL] (+2)	A61C8/00E A61F2/30L (+2)	A61C8/00 A61F2/30 A61L27/30 (+5)	WO0042940 (A1) 2000-07-27	1999-01-22

3. Scintillator compositions used in X-radiography, e.g. computerized tomography, with matrix of yttrium or lutetium oxide and minor amount of gadolinium oxide and europium as main activator also contain acceptor, calcium and cerium

Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
LYNCH MICHAEL JOHN [US] DUCLOS STEVEN JUDE [US] (+2)	GEN ELECTRIC [US]	C09K11/77T2H G21K4/00	C09K11/00 C09K11/77 C09K11/78 (+4)	DE19950087 (A1) 2000-05-04	1998-10-28

4. Preparation of a calcium complex used as a PVC formulation stabilizer comprises reacting calcium (hydr)oxide with a beta-dicarbonyl compound in a 1-6C saturated alcohol and/or 2-6C ether

Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
ALAS MICHEL DURY MICHEL	RHONE POULENC CHIMIE [FR]	C07C45/77 C07C49/92 (+1)	C07C45/77 C07C49/92 C08K5/00 (+4)	FR2798381 (A1) 2001-03-16	1999-09-14

5. METHOD OF PRODUCTION OF CALCIUM OXIDE

Inventor:	Applicant:	EC:	IPC:	Publication info:	Priority date:
NEMCHINOV O V BIKBULATOV I KH (+3)	NEMCHINOV OLEG VLADIMIROVICH BIKBULATOV IGOR KHUSNUTOVICH (+3)		C01F11/06 (IPC1-7):C01F11/06	RU2160229 (C1) 2000-12-10	1999-07-15

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Fingerprint powder and method of application

Page bookmark	US 4176205 (A) - Fingerprint powder and method of application
Publication date:	1979-11-27
Inventor(s):	MOLINA ORLANDO G [US] +
Applicant(s):	ROCKWELL INTERNATIONAL CORP [US] +
Classification:	- **international:** ***A61B5/117;*** (IPC1-7): A61B5/10
	- **European:** A61B5/117B
Application number:	US19760669926 19760324
Priority number(s):	US19760669926 19760324
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Cited documents:	US2066535 (A) US2986831 (A) US3075852 (A) US

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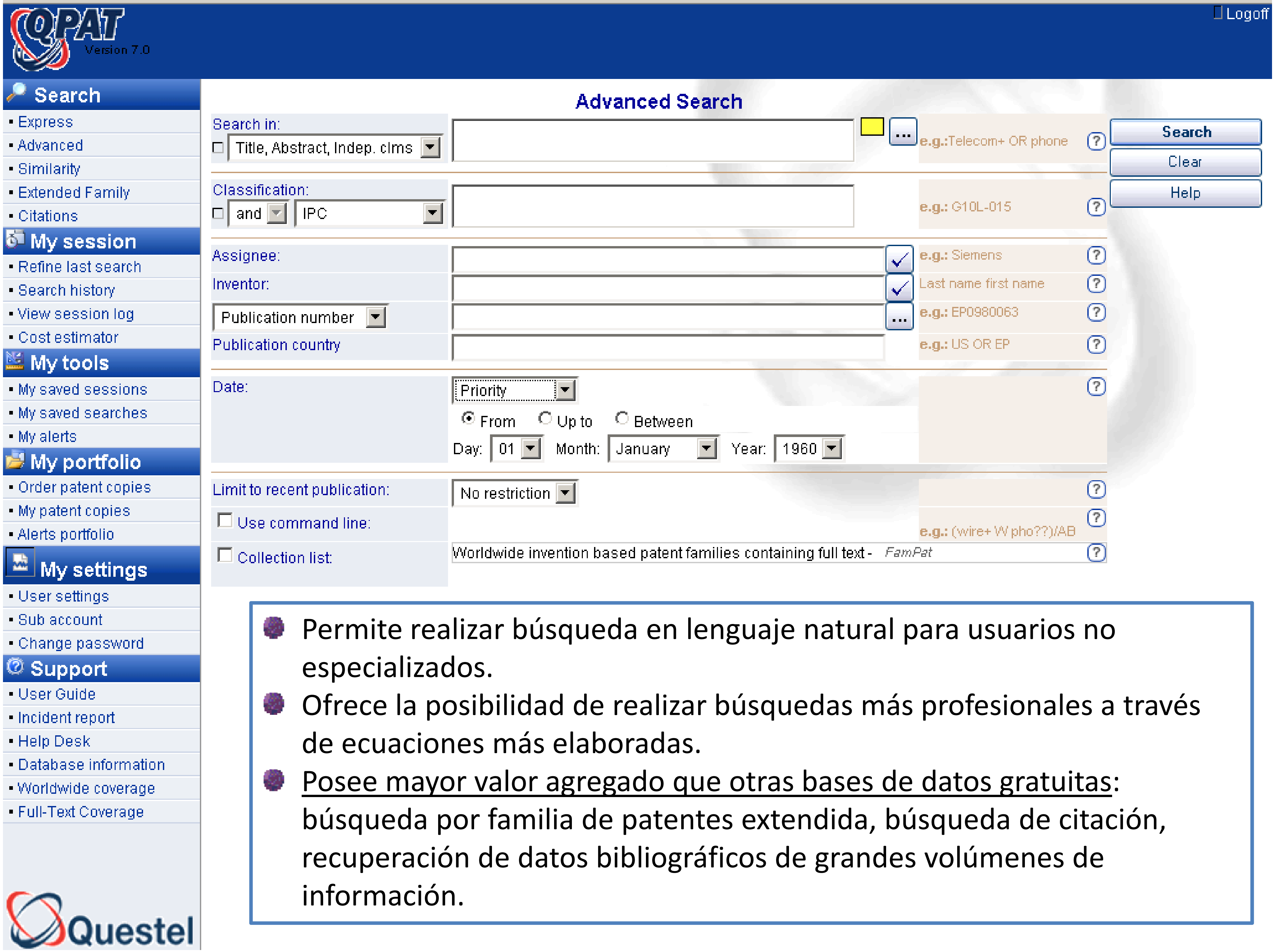
Abstract of US 4176205 (A)

Translate this text

Fingerprint powder and method for developing latent fingerprints therewith, such powder comprised of a powder carrier, especially a mixture of silica and talc, containing a coloring agent, preferably a fluorescent dye. The fingerprint powder can be applied by blowing the powder over a surface containing latent fingerprints, or by brushing or pouring the powder on such surface, or by immersion thereof in such powder, thus developing and revealing a bright, sharp fingerprint, which can be photographed or lifted by applying tape or a strippable coating over the print.



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Usability Rating	Rating: 2.2/5 (5 votes)	Rating: 3.0/5 (5 votes)	Rating: 4.0/5 (5 votes)	Rating: 4.3/5 (3 votes)	Rating: 4.0/5 (24 votes)
Interface Functionality Rating	Rating: 2.2/5 (5 votes)	Rating: 2.5/5 (6 votes)	Rating: 3.6/5 (5 votes)	Rating: 4.0/5 (3 votes)	Rating: 4.1/5 (24 votes)
Search Accuracy Rating	Rating: 2.0/5 (6 votes)	Rating: 2.2/5 (6 votes)	Rating: 3.6/5 (5 votes)	Rating: 4.3/5 (3 votes)	Rating: 4.1/5 (24 votes)
Company Strength Rating	Rating: 3.0/5 (5 votes)	Rating: 3.5/5 (6 votes)	Rating: 4.0/5 (4 votes)	Rating: 5.0/5 (2 votes)	Rating: 4.0/5 (26 votes)
Customer Support Rating	Rating: 2.3/5 (7 votes)	Rating: 3.3/5 (6 votes)	Rating: 3.5/5 (4 votes)	Rating: 4.5/5 (2 votes)	Rating: 4.2/5 (24 votes)

Fuente: http://www.intellogist.com Consulta: Marzo 2011

Países por registro de patentes

Solicitudes de patentes por país (Últimos datos: 2008)

Posición	País	Nº de solicitudes
1	Japón	502.054
2	Estados Unidos	400.769
3	China	203.481
4	Corea del Sur	172.342
5	Alemania	135.748
6	Francia	47.597
7	Reino Unido	42.296
8	Rusia	29.176
9	Suiza	26.640
10	Países Bajos	25.927
11	Italia	21.911
12	Canadá	21.330
13	Suecia	17.051
14	Australia	11.230
15	Finlandia	10.133
16	Israel	9.877
17	España	8.277
18	Dinamarca	7.719
19	Austria	7.711
20	Bélgica	7.592

Patentes otorgadas por país (Últimos datos: 2008)

Posición	País	Nº de patentes otorgadas
1	Japón	239.338
2	Estados Unidos	146.871
3	Corea del Sur	79.652
4	Alemania	53.752
5	China	48.814
6	Francia	25.535
7	Rusia	22.870
8	Italia	12.789
9	Reino Unido	12.162
10	Suiza	11.291
11	Países Bajos	11.103
12	Canadá	8.188
13	Suecia	7.453
14	Finlandia	4.675
15	Australia	4.386
16	España	3.636
17	Bélgica	2.948
18	Israel	2.665
19	Dinamarca	2.347
20	Austria	2.306

Patententes en vigor (Últimos datos: 2008, mixtos)

Posición	País	Nº de patentes en vigor
1	Estados Unidos	1.872.872
2	Japón	1.270.367
3	China	828.054
4	Corea del Sur	624.419
5	Reino Unido	599.062
6	Alemania	509.879
7	Francia	438.926
8	Unión Europea	268.384 (O.E.P.)
9	Hong Kong	227.918
10	España	166.079
11	Rusia	147.067
12	Canadá	121.889
13	Australia	107.708
14	Suecia	105.571
15	Bélgica	87.189 (2003)
16	Irlanda	78.761
17	México	73.076
18	Mónaco	50.392
19	Luxemburgo	49.947
20	Finlandia	47.070

CASO 1: Examen de WO2007044893

Examen sustantivo de una solicitud internacional que ha entrado en fase nacional.

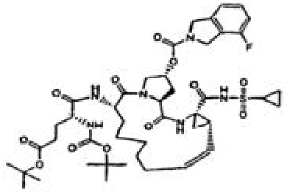
COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION

(JP2009511595)

Ｃ型肝炎ウイルスの複製を阻害する化合物および方法
(A) Ｃ형 간염 바이러스 복제를 억제하기 위한 화합물 및 방법
COMPUESTOS Y MÉTODOS PARA INHIBIR LA REPLICACIÓN VIRAL DE HEPATITIS C
Forbindelser og fremgangsmater for inhibering av hepatitt C viral replikasjon
СОЕДИНЕНИЯ И СПОСОБЫ ИНГИБИРОВАНИЯ РЕПЛИКАЦИИ ВИРУСНОГО ГЕПАТИТА С
COMPUESTOS Y METODOS PARA INHIBIR LA REPLICACION VIRAL DE HEPATITIS C.
(A) 抑制丙型肝炎病毒复制的化合物和方法
Forbindelser og fremgangsmåder til inhibering af replikationen af hepatitis C-virus

(EP1999129)
Macrocyclic compounds having the structures described herein are useful for inhibiting replication of the hepatitis C virus (HCV). In preferred embodiments, the compounds are active against both the NS3 protease and the NS3 helicase of HCV.
(From US2009093533 A1)

Orig. Inventor:	•Beigelman, Leonid; San Mateo, CA [US] •Seiwert, Scott D.; Pacifica, CA [US] •Blatt, Lawrence; San Francisco, CA [US] •Andrews, Steven; Longmont, CO [US] •Haas, Julia; Boulder, CO [US]
Patent Assignee:	Intermune, Inc.; 3280 Bayshore Boulevard; Brisbane, CA 94005 (US) Array Biopharma, Inc.; 3200 Walnut Street; Boulder, CO 80301 (US)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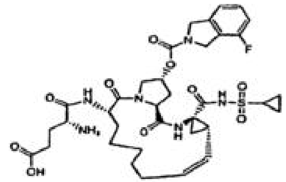
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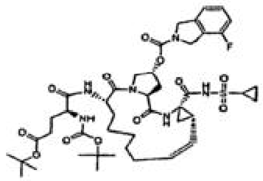
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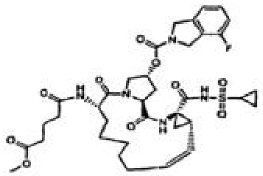
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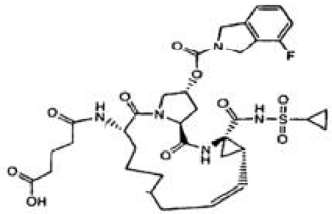
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1. (WO2007044893) COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION

PCT Biblio. Data | Description | Claims | National Phase | Notices | Documents

International Application Status

Date	Title	View	Download
30.03.2011	International Application Status Report	HTML, PDF	PDF, XML

Published International Application

Date	Title	View	Download
19.04.2007	Initial Publication without ISR (A2 16/2007)	HTML, PDF (100p.)	PDF (100p.), ZIP(XML + TIFFs)
02.10.2008	Later publication of international search report (A3 40/2008)	HTML, PDF (4p.)	PDF (4p.), ZIP(XML + TIFFs)
19.04.2007	Declaration	PDF (4p.)	PDF (4p.), ZIP(XML + TIFFs)

Related Documents on file at the International Bureau

Date	Title	View	Download
02.09.2008	International Preliminary Report on Patentability Chapter I (IB/373)	PDF (6p.)	PDF (6p.), ZIP(XML + TIFFs)
29.08.2008	Written Opinion of the International Search Authority	PDF (5p.)	PDF (5p.), ZIP(XML + TIFFs)
19.04.2007	Request form (RO/101)	PDF (5p.)	PDF (5p.), ZIP(XML + TIFFs)
19.04.2007	US 60/725,564 11.10.2005 (Pr. Doc.)	PDF (103p.)	PDF (103p.), ZIP(XML + TIFFs)
19.04.2007	Notification Concerning Submission or Transmittal of Priority Document (IB/304)	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/040049

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07D471/04 C07D487/04 A61K31/407 A61P31/14

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)
C07D

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 practical, search terms used)
EPO-Internal, WPI Data, CHEM ABS Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages
A	WO 2005/037214 A (INTERMUNE INC [US]; ARRAY BIOPHARMA INC [US]) 28 April 2005 (2005-04-28) abstract; claim 1
A	WO 2005/070955 A (BOEHRINGER INGELHEIM INT [DE]; BOEHRINGER INGELHEIM PHARMA [DE]; LLINA) 4 August 2005 (2005-08-04) abstract; claim 1
A	WO 2004/093915 A (BOEHRINGER INGELHEIM INT [DE]; CHEN SHIRLYNN [US]; MEI XIAOHUI [US]; W) 4 November 2004 (2004-11-04) abstract; claim 1

Name and mailing address of the ISA:

European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter I of the Patent Cooperation Treaty)

1. Statement

Novelty (N)	Yes:	Claims	1-26
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-26
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-26
	No:	Claims	

3 Novelty (Article 33(2) PCT)

3.1 The compounds claimed in present claim 1 differ from those disclosed in D1 in view of their 4-carboxy-1-oxobutylamino substituent (see definition of group -NR4R5 in compound II of D1, claim 1).

3.2 The compounds claimed in present claim 1 differ from those disclosed in D2 and D3 in view of their 4-carboxy-1-oxobutylamino substituent and in view of their 1,3-dihydro-isoindole ring.

4 Inventive step (Article 33(3) PCT)

Closest prior art D1 discloses compounds equally useful in the treatment of hepatitis C which differ from the present compounds in that they lack the 4-carboxy-1-oxobutylamino substituent (see item 3.1).

The technical problem underlying the present application is regarded as the provision of further compounds useful in the treatment of hepatitis C. As shown in table I of pages 92-93 the claimed compounds are NS3 protease inhibitors and are therefore solutions of said technical problem.

There is no incentive in the prior art for the structural modification mentioned above (i.e. presence of a 4-carboxy-1-oxobutylamino substituent) and it could therefore not have been predicted that the NS3 protease inhibitory activity would be retained for the present compounds. An inventive step can therefore be acknowledged for the present compounds.

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	Date	Document type	Procedure	Nu
☐	16.12.2010	Communication of the registration of a transfer	Search / examination	
☐	13.12.2010	Letter concerning fees and payments	Search / examination	
☐	03.12.2010	Request for transfer of rights - applicant	Search / examination	
☐	02.12.2010	Decision to grant a European patent	Search / examination	
☐	01.12.2010	Annexes in respect of a request for a change	Search / examination	
☐	01.12.2010	Request for transfer of rights - applicant	Search / examination	
☐	10.11.2010	Filing of the translations of the claims	Search / examination	

☐	11.12.2009	Reply to communication from the Examining Division	Search / examination
☐	14.08.2009	Annex to the communication	Search / examination
☐	14.08.2009	Communication from the Examining Division	Search / examination
☐	17.07.2009	Claims	Search / examination
☐	17.07.2009	Claims	Search / examination
☐	17.07.2009	Description	Search / examination
☐	17.07.2009	Description	Search / examination
☐	17.07.2009	Letter accompanying subsequently filed items	Search / examination

RESPUESTA DEL SOLICITANTE A SEÑALAMIENTOS DEL EXAMINADOR

1. Claim amendments

The Applicant submits a set of amended claims enclosed herewith in two copies (version with amendments indicated and clean version).

Claims 4-9, 1, 13 and 15 have been amended to correct their dependency.

Claim 5 has been amended to include a period at the end of the claim.

2. Reply to the Examination Report

- The Examiner has stated that claims 13 and 15 are unclear as they recite "a compound having an amount ...".

Without acquiescence to the Examiner's opinion and solely to further the allowance of the application, claims 13 and 15 have been amended by replacing the wording "having an amount" by the recitation "in an amount".

- The Examiner has further requested to remove references to methods of treatment from the description.

The description has been amended in accordance with the Examiner's request. In addition, the description has been brought into conformity with the presently amended claims. A hand-amended version of pages 1, 5, 6, 17, 19 to 22, 24 to 27, 29 to 63, and 82 to 88 of the description as well as a clean copy of the amended description are enclosed herewith.

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European Patent Register

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EP1999129 - COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION [Right-click to bookmark this link]

Status	The patent has been granted *Database last updated on 02.03.2011*		
Most recent event	17.12.2010	Change - applicant	published on 19.01.2011 [2011/03
Applicant(s)	For all designated states Intermune, Inc. 3280 Bayshore Boulevard Brisbane, CA 94005 / US [2011/03]		
Inventor(s)	01 / BEIGELMAN, Leonid 991 E. Grant Pl. San Mateo, CA 94402 / US		
	02 / SEIWERT, Scott D. 828 Rockaway Beach Ave. Pacifica, CA 94044 / US		
	03 / BLATT, Lawrence M. 10 Shoreview San Francisco, CA 94121 / US		
	04 / ANDREWS, Steven 2020 Kentmore Longmont, CO 80501 / US		
	05 / HAAS, Julia 2775 Lee Hill Drive Boulder, CO 80302 / US [2008/50]		
Representative(s)	Paemen, Liesbet R.J. , et al De Clercq, Brants & Partners E. Gevaertdreef 10 A 9830 Sint-Martens-Latem / BE [2008/50]		
Application number, filing date	06816857.4	10.10.2006	

Fees paid

Renewal fee		
14.10.2008	Renewal fee	patent year 03
13.10.2009	Renewal fee	patent year 04
12.10.2010	Renewal fee	patent year 05

Fuente: https://register.epo.org/espacenet/advancedSearch?lng=en Consulta: Marzo 2011

Extended family search results

Search : (WO200744893) /PN/XPN

#	Patent Number	Kind	Date	Application No	Date
1	AP200804425	D0	20080430	2008AP-0004425	20061010
2	WO2007044893	A2	20070419	2006WO-US40049	20061010
	AU2006301966	A1	20070419	2006AU-0301966	20061010
	CA2624333	A1	20070419	2006CA-2624333	20061010
	KR20080056295	A	20080620	2008KR-7011226	20080509
	ECSP088437	A	20080630	2008EC-SP08437	20080508
	NO20081999	A	20080711	2008NO-0001999	20080428
	IN3636/DELNP/2008	A	20080815	2008IN-DN03636	20080429
	WO2007044893	A3	20081002		
	IL190404	D0	20081103	2008IL-0190404	20080324
	EP1999129	A2	20081210	2006EP-0816857	20061010
	EA200801050	A1	20081230	2008EA-0001050	20061010
	MX2008004754	A	20090302	1920MX-8004754	20080410
	JP2009511595	T	20090319	2008JP-0535702	20061010
	ZA200803797	A	20090325	2008ZA-0003797	20080505
	US2009093533	A1	20090409	2006US-0089895	20061010
	CN101415705	A	20090422	2006CN-80037945	20061010
	EP1999129	B1	20101229		
	AT493409	T	20110115	2006AT-0816857	20061010
	DK1999129	T3	20110207	2006DK-0816857	20061010
	DE602006019323	D1	20110210	2006DE-60019323	20061010

Priority number	Date
2005US-P725564	20051011
2006US-0089895	20061010
2006US-P725564	20061010
2006WO-US40049	20061010

Bibliographic data: EP 1999129 (A2)

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COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION

Page bookmark	EP 1999129 (A2) - COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICAT
Publication date:	2008-12-10
Inventor(s):	BEIGELMAN LEONID [US]; SEIWERT SCOTT D [US]; BLATT LAWRENCE M [US]; ANDREWS STEVEI JULIA [US] +
Applicant(s):	INTERMUNE INC [US]; ARRAY BIOPHARMA INC [US] +
Classification:	- international: *C07D471/04*
	- European: C07D471/04; C07D487/04
Application number:	EP20060816857 20061010
Priority number(s):	WO2006US40049 20061010; US20050725564P 20051011
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Also published as:	EP 1999129 (B1) WO 2007044893 (A2) WO 2007044893 (A3) ZA 200803797 (A) US 2009093533 (A1) NO 20081999 (A) MX 2008004754 (A) KR 20080056295 (A) JP 2009511595 (T) EC SP088437 (A) EA 200801050 (A1) DK 1999129 (T3) CN 101415705 (A) CA 2624333 (A1) AU 2006301966 (A1) AT 493409 (T) less

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12/089,895 COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION

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Bibliographic Data

Application Number:	12/089,895	Customer Number:	-
Filing or 371 (c) Date:	10-08-2008	Status:	Docketed New Case - Ready for Examination
Application Type:	Utility	Status Date:	08-24-2009
Examiner Name:	HEARD, THOMAS SWEENEY	Location:	ELECTRONIC
Group Art Unit:	1654	Location Date:	-
Confirmation Number:	7461	Earliest Publication No:	US 2009-0093533 A1
Attorney Docket Number:	INTMU.023NP	Earliest Publication Date:	04-09-2009
Class / Subclass:	514/011	Patent Numbe	
First Named Inventor:	Leonid Beigelman , San Mateo, CA (US)	Issue Date of Patent:	

Title of Invention: COMPOUNDS AND METHODS FOR IN REPLICATION

US 20090093533A1

(19) **United States**

(12) **Patent Application Publication**

Beigelman et al.

(10) **Pub. No.: US 2009/0093533 A1**

(43) **Pub. Date: Apr. 9, 2009**

(54) **COMPOUNDS AND METHODS FOR INHIBITING HEPATITIS C VIRAL REPLICATION**

(76) Inventors: **Leonid Beigelman**, San Mateo, CA (US); **Scott D. Seiwert**, Pacifica, CA (US); **Lawrence Blatt**, San Francisco, CA (US); **Steven Andrews**, Longmont, CO (US); **Julia Haas**, Boulder, CO (US)

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IRVINE, CA 92614 (US)

(21) Appl. No.: **12/089,895**

(22) PCT Filed: **Oct. 10, 2006**

(86) PCT No.: **PCT/US06/40049**

§ 371 (c)(1), (2), (4) Date: **Oct. 8, 2008**

Related U.S. Application Data

(60) Provisional application No. 60/725,564, filed on Oct. 11, 2005.

Publication Classification

(51) **Int. Cl.**
A61K 31/407 (2006.01)
C07D 245/00 (2006.01)
A61P 31/12 (2006.01)

(52) **U.S. Cl.** **514/411**; 540/460

(57) **ABSTRACT**

Macrocyclic compounds having the structures described herein are useful for inhibiting replication of the hepatitis C virus (HCV). In preferred embodiments, the compounds are active against both the NS3 protease and the NS3 helicase of HCV.

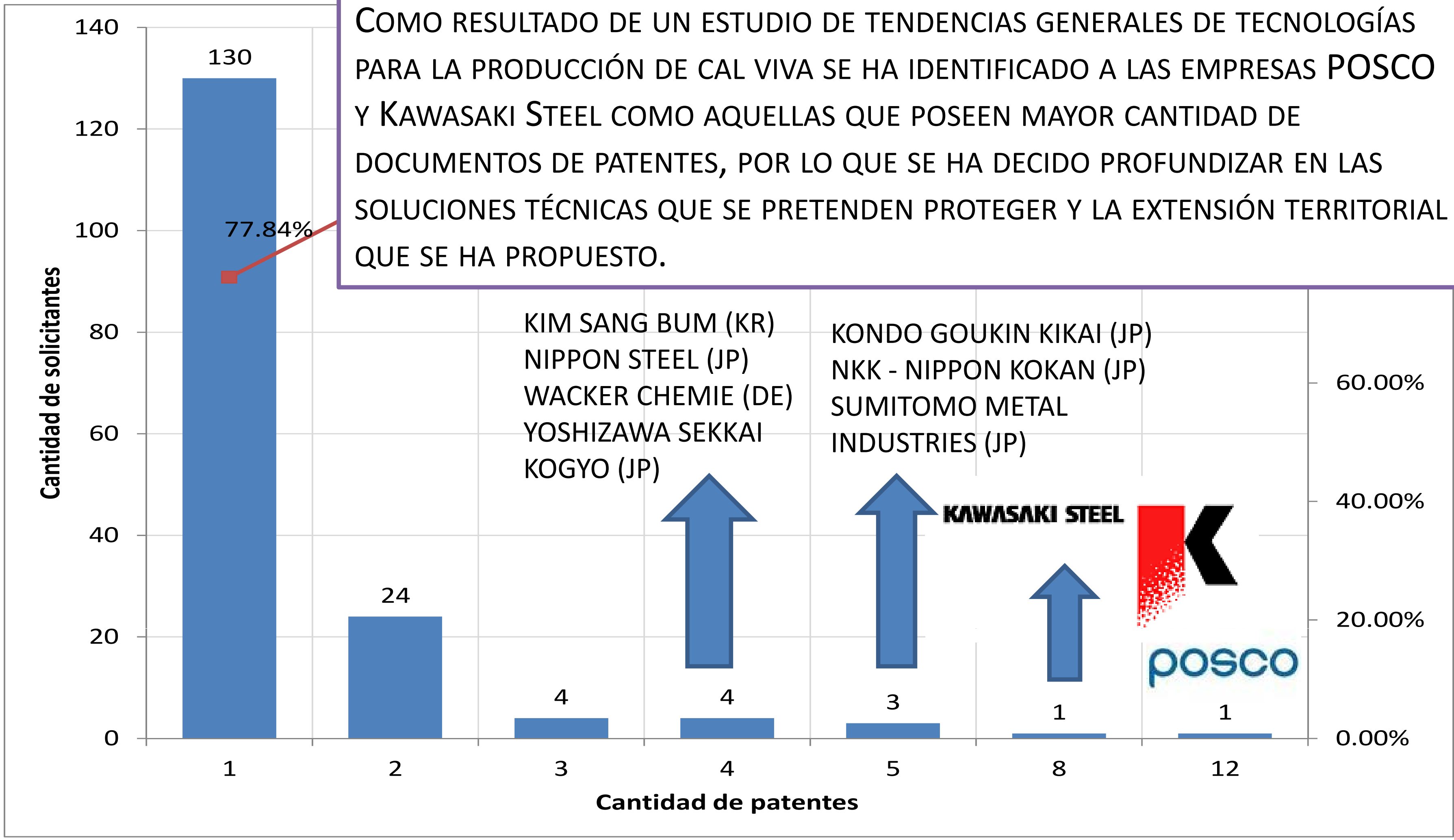
CASO 1. Resultados y Conclusiones

- Otorgado y vigente en EPO.
- USPTO en examen.
- Informe de búsqueda, opinión escrita e informe internacional preliminar de patentabilidad:

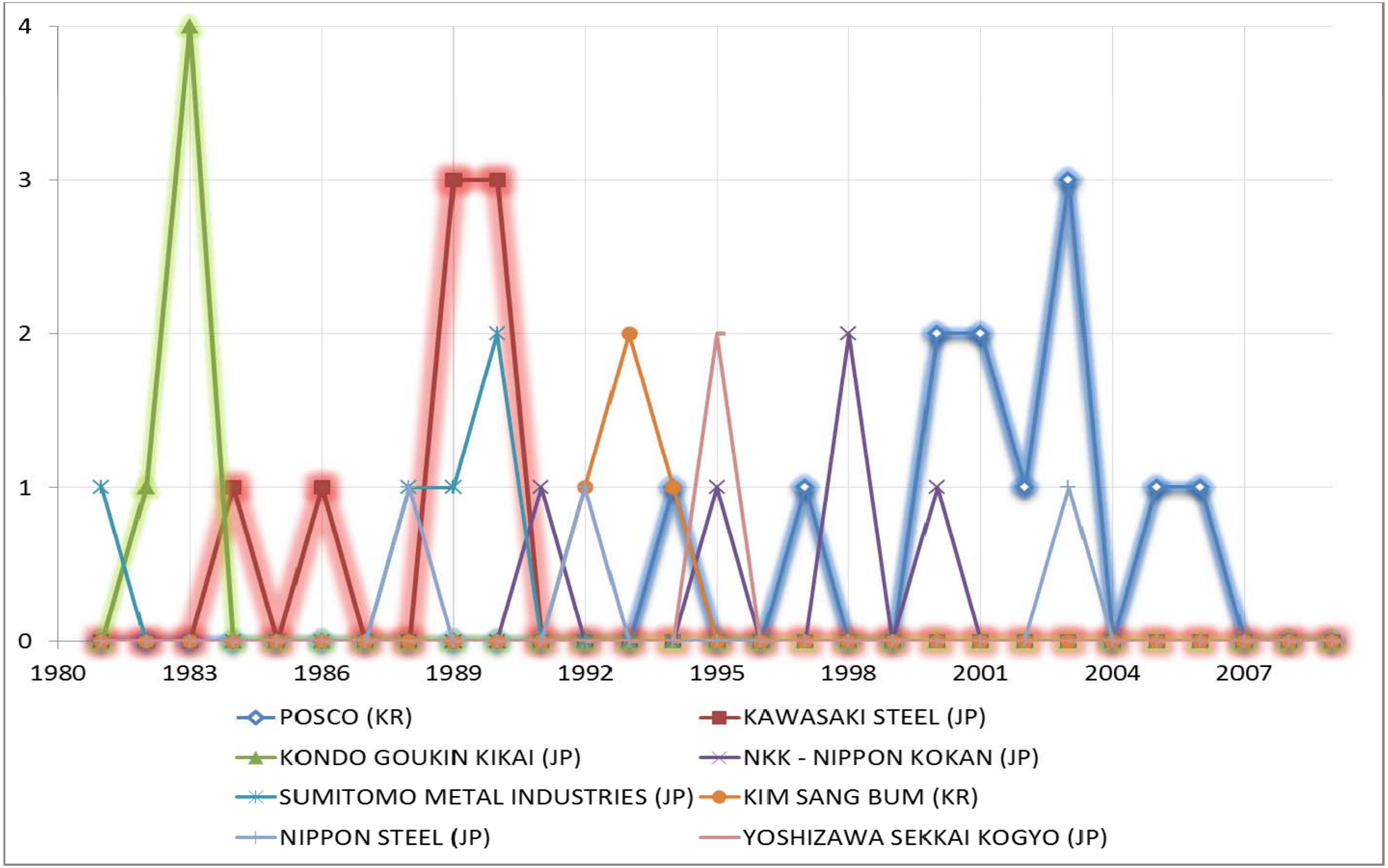
  Si bien estos informes no son vinculantes, si ofrecen una primera aproximación acerca de los criterios de patentabilidad esgrimidos por la autoridad seleccionada de acuerdo a determinados requisitos.

Ejemplo 2: Valoración de tecnología a partir de la identificación de un solicitante de patentes más productivo

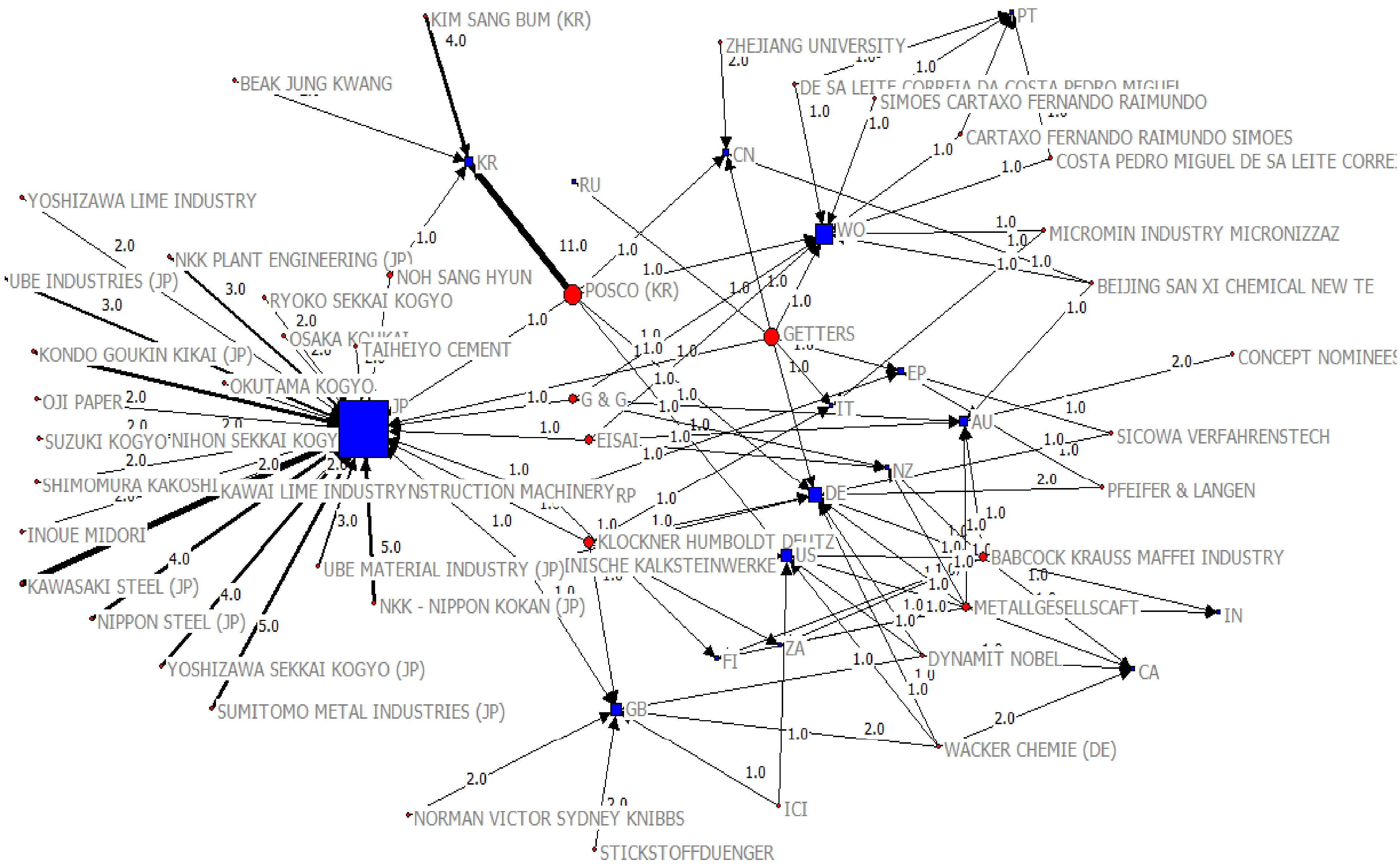
COMO RESULTADO DE UN ESTUDIO DE TENDENCIAS GENERALES DE TECNOLOGÍAS PARA LA PRODUCCIÓN DE CAL VIVA SE HA IDENTIFICADO A LAS EMPRESAS POSCO Y KAWASAKI STEEL COMO AQUELLAS QUE POSEEN MAYOR CANTIDAD DE DOCUMENTOS DE PATENTES, POR LO QUE SE HA DECIDO PROFUNDIZAR EN LAS SOLUCIONES TÉCNICAS QUE SE PRETENDEN PROTEGER Y LA EXTENSIÓN TERRITORIAL QUE SE HA PROPUESTO.



Solicitantes por años



Destino preferido por solicitantes



WO2004087601 A1 20041014: Method and burner apparatus for injecting a pulverized coal into rotary kilns, method and apparatus for

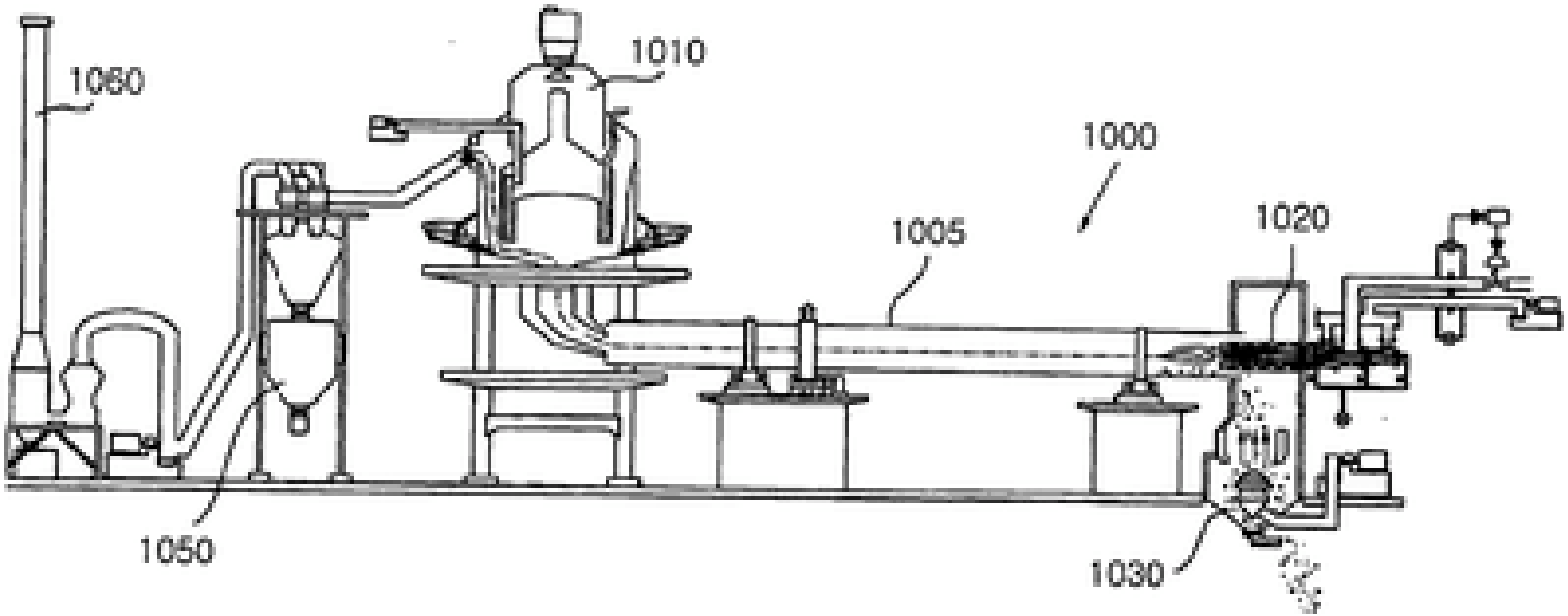


FIG. 1A

Reivindicaciones

Claims
1. A method for injecting pulverized coal into a rotary kiln in a quick lime-producing method, which produces quick lime from lime stone in the rotary kiln according to the steps of charging lime stone into the rotary kiln, heating the lime stone in the rotary kiln, and discharging quick lime out of the kiln, wherein the step of heating lime stone uses the pulverized coal as a heat source with a burner.

2. The method for injecting pulverized coal into a rotary kiln according to claim 1, wherein at least 98% of the pulverized coal maintains a particle size of lmm or less.

3. The method for injecting pulverized coal into a rotary kiln according to claim 1, wherein at least 98.5% of the pulverized coal maintains a particle size of 0.5mm or less.

The present invention has been made to solve the foregoing problems and it is therefore an object of the invention to provide a method for injecting pulverized coal into a rotary kiln which can feed pulverized coal by-produced from a coke manufacturing process as fuel together with COG into the kiln in order to reduce the concentration of NOx and SOx contained in emission gas while performing calcination heating to lime stone.

It is another object of the invention to provide an improved method for injecting pulverized coal into a rotary kiln which can shift a maximum calcination temperature range away from a burner based upon the diffusion combustion of fuel to prevent the heat concentration in length of the kiln thereby decentralizing the formation of a coating layer on the inside wall, and thus minimize the inside diameter variation originated from the inside wall coating layer to facilitate the rotational movement of raw ore thereby preventing the reduction of actual yield originated from the overburn of raw ore.

Informe preliminar internacional de patentabilidad

PATENT COOPERATION TREATY

PCT

REC'D 27 JUN 2005
WIPO PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

1. Statement

Novelty (N)	Claims	2-10, 14-16, 18-25, 27, 28, 33, 34, 36-46	YES
	Claims	1, 11-13, 17, 26, 29-32, 35	NO
Inventive step (IS)	Claims	4-10, 15, 16, 18-23, 27, 28, 33, 34, 36-46	YES
	Claims	2, 3, 14, 24, 25	NO
Industrial applicability (IA)	Claims	1-46	YES
	Claims	None	NO

2. Citations and explanations (Rule 70.7)

X D1: JP 08-283053(Yoshizawa Sekkai Kogyo KK) 29 October 1996

Y D2: US 5,231,937 A(Hitachi, Ltd. et al) 3 August 1993

WO2004087601: Familia de patentes

FamPat family

Publication Number	Kind	Publication date
WO2004087601	A1	20041014
STG:	International publication with international search report	
AP :	2004WO-KR00364 20040223	
DE112004000319	T5	20060202
STG:	Trans. of publ. of international application	
AP :	2004DE-11000319 20040223	
CN1753843	A	20060329
STG:	Unexamined application for a patent for inv.	
AP :	2004CN-80005006 20040223	
US2006169181	A1	20060803
STG:	First published patent application	
AP :	2004US-0547120 20040223	
JP2006518695	T	20060817
STG:	Unexam. pat appl. on foreign appl.	
AP :	2006JP-0500651 20040223	
CN1753843	B	20100512
STG:	Granted Pate	

Priority Nbr:

2003KR-0011270 20030224
2003KR-0033462 20030526
2003KR-0037208 20030610
2003KR-0056981 20030818
2003KR-0072038 20031016
2003KR-0072039 20031016
2003KR-0079184 20031110
2004WO-KR00364 20040223

1. (WO2004087601) METHOD AND BURNER APPARATUS FOR INJECTING A PULVERIZE APPARATUS FOR PRODUCING CaO USING TH

PCT Biblio. Data | Description | Claims | National Phase | Notices | Documents

Available information on National Phase entries(more information)

Office	Entry Date	National Number	National Status
China	24.08.2005	200480005006.2	
Germany	02.02.2006	112004000319	
Japan	23.08.2005	2006500651	
United States of America	24.08.2005	10547120	Published: 03.08.2006

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Hitlist entry 1 of 1, Bibliographic data

Document DE112004000319T5 02.02.2006

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Bibliographic data

INID	Criterion	Field	Content
(10)	Document ID	PN	DE112004000319T5 02.02.2006
(54)	Title	TI	Brennervorrichtung zum Injizieren von pulverförmiger Kohle in drehbaren Brennöfen und zugehöriges Verfahren und zugehörige Vorrichtung zur Herstellung von CaO
(71)	Applicant	PA	POSCO, Pohang City, Kyung Sang Book, KR
(72)	Inventor	IN	Youn, Jong-Og, Pohang, Kyungsangbook, KR; Jung, Soon-Tae, Pohang, Kyungsangbook, KR; Kim, Young-Choun, Pohang, Kyungsangbook, KR; Lee, Hee-Geun, Pohang, Kyungsangbook, KR; Kwon, Young-Bok, Pohang, Kyungsangbook, KR; Lee, Bock-Wha, Pohang, Kyungsangbook, KR; Yoo, Yeoung-Ok, Pohang, Kyungsangbook, KR
(74)	Representative	VTR	Lindner Blaumeier & Kollegen Patent- und Rechtsanwälte, 90402 Nürnberg
(21)	DE file number	DAKZ	112004000319

Amendments

Part	Week	Reason	New content
6 B	46/2007	8172 - Divisional application (free division or divided out on the grounds of lack of unity), new file	11 2004 003 053.6
6 B	11/2008	8128 - New person, name or residence of representative	
6 B	51/2009	8139 - Annual fee not paid	

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10/547,120   Method and burner apparatus for injecting a pulverized coal into rotary kilns, method and apparatus for producing cao using them

Select New Case   Application Data Transaction History Image File Wrapper Continuity Data Foreign Priority Published Documents Correspondence Data

Bibliographic Data

Application Number:	10/547,120	Customer Number:	-
Filing or 371 (c) Date:	08-24-2005	Status:	Abandoned -- Failure to Respond to an Office Action
Application Type:	Utility	Status Date:	07-23-2009
Examiner Name:	MARCANTONI, PAUL D	Location: What is a Location?	ELECTRONIC
Group Art Unit:	1793	Location Date:	-
Confirmation Number:	6927	Earliest Publication No:	US 2006-0169181 A1
Attorney Docket Number:	58877-8002.US01	Earliest Publication Date:	08-03-2006
Class / Subclass:	106/739	Patent Number:	-
First Named Inventor:	Jong-Og Youn , Kyungsangbook-do, (KR)	Issue Date of Patent:	-

Title of Invention: Method and burner apparatus for injecting a pulverized coal into rotary kilns, method and apparatus for producing cao using them

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CASO 2: Resultados y conclusiones

- Se trata de una solicitud internacional que invoca múltiples prioridades coreanas.
- La autoridad de examen internacional (KOP) ha encontrado en el estado de la técnica documentos que según ellos afectan la novedad y la actividad.
- Se identificó la familia de patentes.
- Se determinó que ha sido otorgada patente en china, pero abandonada en Alemania por no pago de tasas y abandonada en EE.UU. por no respuesta de una acción oficial.

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- La información contenida no incluye aquella que permita llevar a cabo la invención a escala industrial.
- No se aportan suficientes pruebas de ensayos experimentales que sustenten las invenciones
- Los documentos de solicitudes se encuentran en el estado en el que fueron presentadas, ya que no han sido objeto de examen sustantivo
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- No hay información si la invención se encuentra en explotación.
- La información si el objeto protegido (producto farmacéutico) presenta una protección complementaria (Certificado Complementario de Protección CCP), sector de la industria farmacéutica.

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- Estado de la técnica para examen de patentes y estudios de tendencias generales: esp@cenet, Depatisnet, Freepatentsonline, Scirus, Patentscope, Derwent, QPAT, CAS…

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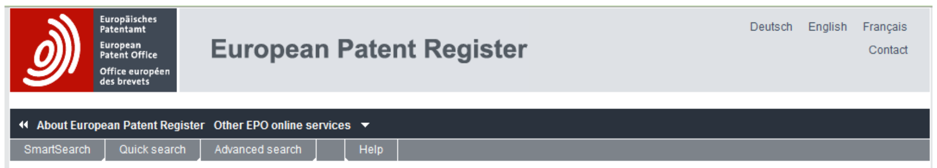
- Estado de los trámites de una solicitud: Register Plus (EPO), Pair (USPTO), DPINFO (Alemania), …



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A. Einstein