

Overview of PATENTSCOPE

Dr. Juneho Jang Senior Regional Manager, WIPO

Agenda

- PATENTSCOPE:
 - What is it?
 - What you can do?
 - How to do it?
 - Options
- Q & A session

What is it?



WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

Coverage: what is included?



Coverage: Details of collections

Country	Biblio Data	Abstract	Doc images	OCR (full-text) Indexed	Nb records	Note
PCT	20.10.1978 - 12.04.2013	20.10.1978 - 12.04.2013	2220787	Total records: 2216178 English: 1429940 French: 86888 Spanish: 15550 German: 270470	2220787	



World Intellectual Property Or... (CH) https://patentscope.wipo.int/search/en/help/data_coverage.jsf

Argentina	12.02.1965 - 27.12.2012	01.11.1990 - 27.12.2012			133023
Brazil	26.04.1972 - 13.03.2013	26.04.1989 - 13.03.2013	207770	Total records: 206716 Portuguese: 206716	532672
Chile	08.01.2005 - 25.10.2008	08.01.2005 - 24.05.2008			3826
Colombia	14.02.1995 - 21.12.2010	14.02.1995 - 21.12.2010	401	Total records: 390 Spanish: 390	12028
Costa Rica	03.10.0108 - 01.02.2013	03.10.0108 - 01.02.2013			6910
Cuba	13.03.1968 - 16.03.2012	13.03.1968 - 16.03.2012	1821	Total records: 1747 Spanish: 1747	2797
Dominican Rep.	01.11.2001 - 16.09.2012	01.11.2001 - 16.09.2012	1590	Total records: 1390 Spanish: 1390	2361
Ecuador	02.10.1990 - 29.08.2009	02.10.1990 - 29.08.2009			2858
El Salvador	11.03.1970 - 21.01.2012	11.03.1970 - 21.01.2012			1577
Guatemala	22.03.1434 - 14.04.2011	22.03.1434 - 14.04.2011			5949
Honduras	14.01.2005 - 23.07.2010	28.01.2005 - 23.07.2010			286
Israel	02.01.1900 - 01.03.2013	17.07.2000 - 01.02.2013	103050	Total records: 90838 English: 90838	170455
Japan	09.01.1993 - 08.02.2013	09.01.1993 - 08.02.2013		Total records: 7054474 Japanese: 7054474	7754518
Jordan	31.12.1899 - 02.11.2011	31.12.1899 - 02.11.2011			1731
Kenya	12.05.1996 - 01.02.2011	12.05.1996 - 01.02.2011			373
Mexico	02.12.1991 - 13.09.2011	02.12.1991 - 13.09.2011	142338	Total records: 138592 Spanish: 138592	216229
Morocco	07.07.1977 - 02.03.2012	02.04.1999 - 02.03.2012	9045	Total records: 8741 French: 8741	13630
Nicaragua	06.11.2003 - 25.03.2009	06.11.2003 - 25.03.2009			197
Panama	10.03.1990 - 28.07.2010	10.03.1990 - 28.07.2010			2312
Peru	22.02.1989 - 01.05.2011	22.02.1989 - 01.05.2011			6415
Republic of Korea	24.10.1973 - 21.09.2012	24.10.1973 - 21.09.2012			1739058
Russian Federation	16.02.1993 - 28.12.2010	16.02.1993 - 28.12.2010		Total records: 464597 Russian: 464597	488061
Russian Federation (USSR data)	01.03.1919 - 28.12.2010	01.12.1960 - 11.12.2008	1369053		1407985
Singapore	29.11.1995 - 29.06.2012	30.04.2011 - 29.06.2012			88507



National/regional collections





National/regional collections vs national phase

Offices for which PCT national phase information is available in PATENTSCOPE Search Service

Where information is displayed for an office, this indicates that the applicant has requested national phase processing for the application concerned in that office. The national entry date and national reference number are supplied by the national office concerned and can be used to retrieve further details from that office, if desired. The information is updated at different frequencies, depending on the office. Therefore, absence of information for a given office does not necessarily indicate a non-entry in that office. The information displayed on the National Phase Tab is based on data supplied to WIPO by the following national patent offices:

Updated: September 19, 2015

	https://potoptopopo.wipo.int/oporph/op/potions	Johann inf
United	https://patentscope.wipo.int/search/en/nationa	lipriase.jsi

African Regional Intellectual Property Organization	April 30, 1998	August 6, 2008	1,076
Austria	November 28, 1980	November 30, 2011	3,178
Australia	December 5, 1997	October 30, 2015	287,698
Bulgaria	January 6, 2004	December 19, 2007	241
Belarus	February 7, 2007	June 15, 2007	31
Belize	November 13, 2002	February 9, 2007	103
Canada	January 23, 1992	May 25, 2015	503,006
Switzerland	July 8, 2008	October 2, 2015	414
China	July 4, 1995	December 20, 2012	595,797
Cuba	November 3, 2009	June 24, 2011	287
Czech Republic	November 9, 1990	November 18, 2014	27,913
Germany	November 20 1980	Δnril 29 2011	102 /26



What can you do?



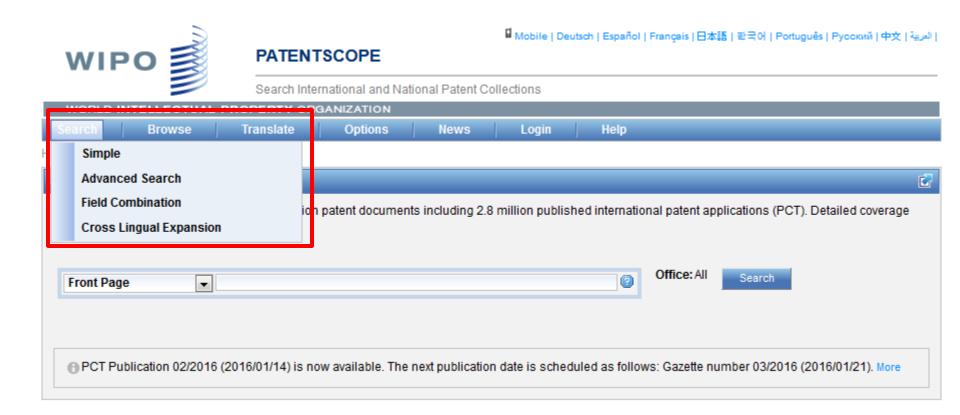
PATENTSCOPE



- Search
- Browse
- Translate

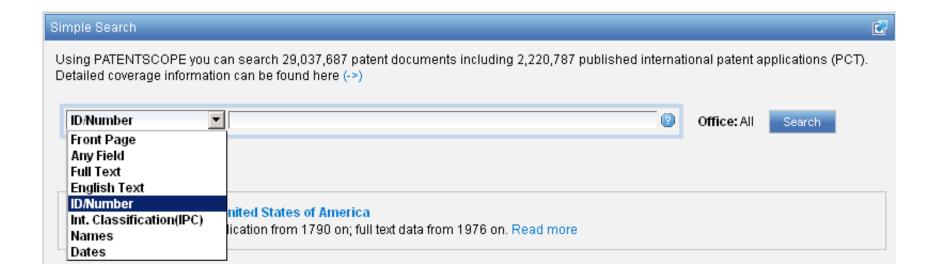


Search





Interface : Simple



which rope pulleys the first part (8, 8a, 9-12, 12a, 13, 14, 15-18) are diverting pulleys, and the second part are traction sheaves (5a). The arrangement additionally comprises at least two hoisting machines (5). In the arrangement are means (19) for locking at least two rope pulleys (5a, 8, 8a, 9-12, 12a, 13, 14, 15-18) to be

non-rotating at least during loading of the elevator Car (1).

PERTY

Simple interface - Numbers





Analysis

The present invention relates to a self electricity-generating railroad roadside lamp that uses suction force as the power for electricity generation and the operation method thereof, characterized in that a swing device powered by suction force and a flywheel electricity generation device for storing energy are added to a roadside lamp along two sides of a railroad. When a high speed train passes, the swing device obtains a suction force and swings. The swing force enables a flywheel electricity generation device to store energy and simultaneously generate electricity. The electricity generated is stored in a battery. At night, a control circuit sends a signal, and the battery provides electricity to the roadside lamp to emit light for illumination. The benefits are: the suction force generated when a high speed train travels enables the generation of stable and environmentally friendly electricity and the provision of said electricity to railroad roadside lamps for illumination; the disadvantage of electricity instability of wind and solar powered roadside lamps is avoided; the electricity resources of the public grid are also conserved.

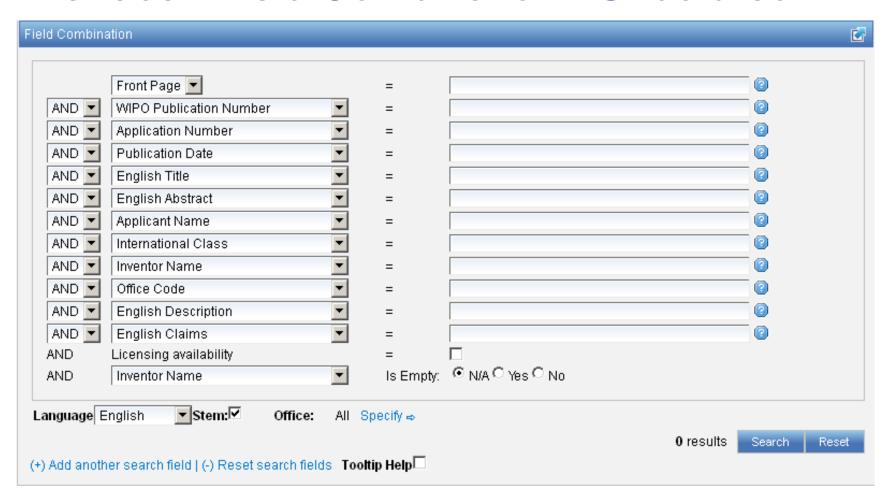


Simple interface - Help





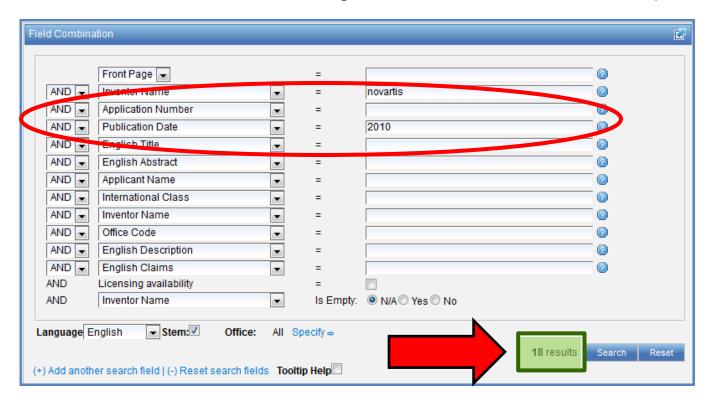
Interface: Field Combination - Structured



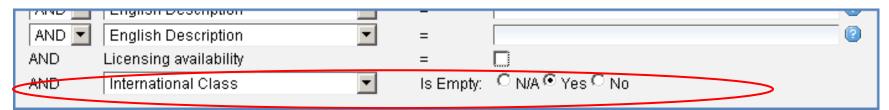


Search examples

Patent documents containing Novartis as inventor and published in 2010

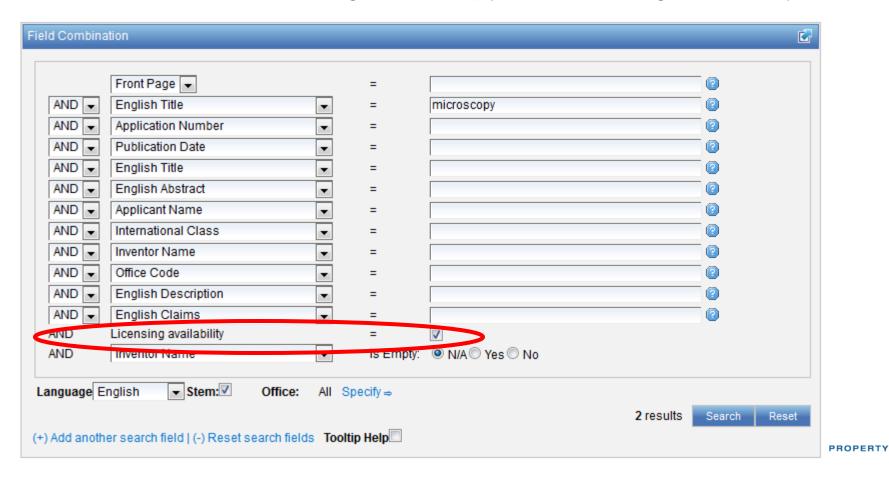


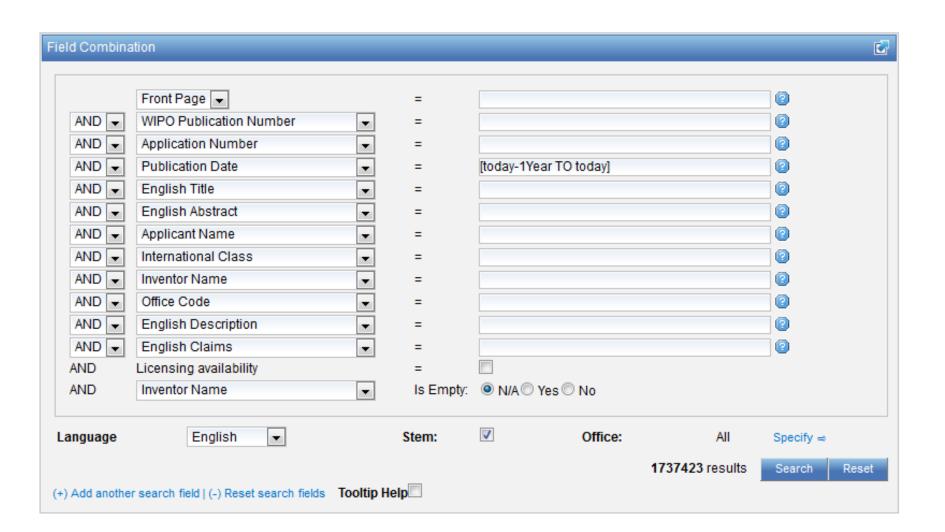
Patent documents without an IPC code



Search examples

Patent documents containing microscopy with licensing availability.





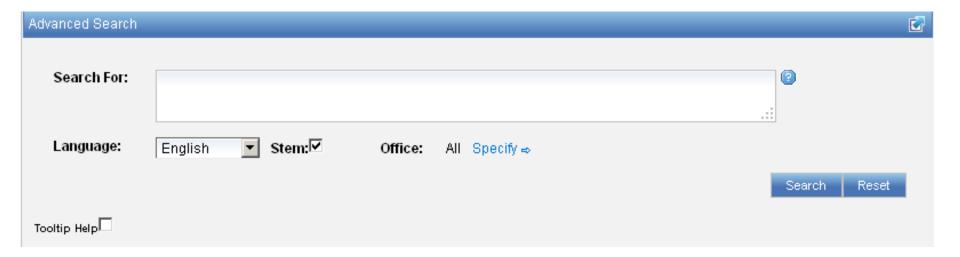


Results 1-10 of 2,108,809 for Criteria: DP:([today-1Year TO today]) Office(s):all Language: EN Stemming: true /210881 Go > Page: 1 next prev

Refine Search DP:([today-1Year TO today]) Search Analysis

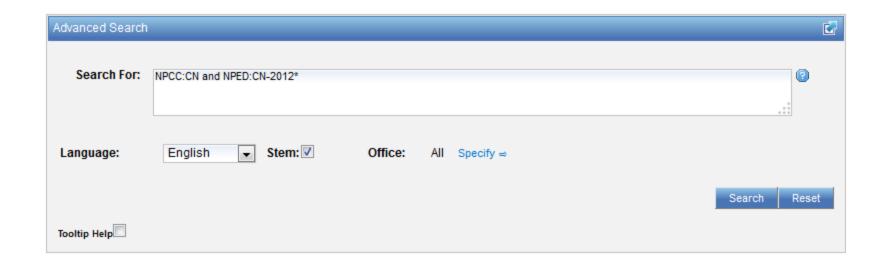
Countries		Mair	ı IPC	Main Inventor Main Applicant			Pub Date		
Name ¢	No ¢	Name	No ¢	Name	No	Name ¢	No	Date	No ¢
China	814785	G06F	148183	THE INVENTOR HAS WAIVED THE	5938	キヤノン株式会社	7096	2015	2084867
United States	384342	A61K	110346	RIGHT TO BE MENTIONED		삼성전자주식회사	6489	2016	23942
Japan	248448	H01L	87896	不公告发明人	3822	SAMSUNG ELECTRONICS CO.,	5818		
PCT	202116	H04L	73446		2834	LTD.			
Republic of Korea	159064	A61P	66935	gleich Anmelder	1869	International Business Machines	5680		
European Patent Office	119333	G01N	57215	ZHOU MINGJIE	1829	Corporation			
Russian Federation	53883	H04W	57081	WANG WEI	1585	HUAWEI TECHNOLOGIES CO., LTD.	5510		
Germany	47811	H04N	56395	小倉 敏男	1563	STATE GRID CORPORATION OF	5480		
	28070	A61B	47989	ZHANG WEI	1517	CHINA			
Brazil				WANG PING	1210	-	5216		
United Kingdom	15029	G06Q	43724	Квасенков Олег Иванович (RU)	1151	haly自動車株式会社	4868		
Spain	11340				1	株式会社東芝	4304		

Interface: Advanced



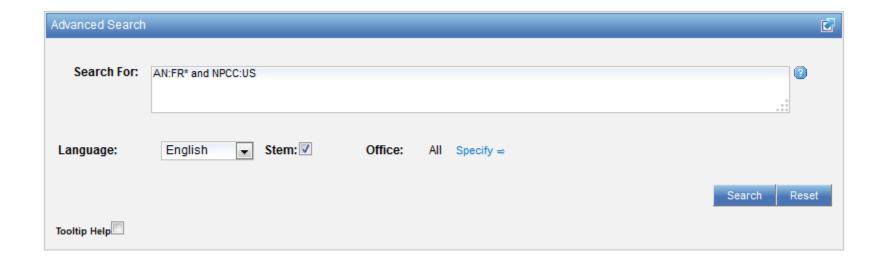
Example: national phase entry

All applications that entered national phase in China in 2012





Example: nb of patent applications from France seeking protection in USA







1. (WO2014170561) METHOD AND SYSTEM FOR IMPROVING THE SECURITY OF ELECTRONIC TRANSACTIONS

	03.04.2014	14122839	Published: 20.11.2014					
European Patent Office (EPO)	30.04.2013	2013717701						
Office	Entry Date	National Number	National Status					
Available information on National Phase entries(more information)								

Agent: DEJADE ET BISET; 35 rue Châteaudun F-75009 Paris (FR)

Priority Data: 13 53407 15.04.2013 FR

Title

(EN) METHOD AND SYSTEM FOR IMPROVING THE SECURITY OF ELECTRONIC TRANSACTIONS

(FR) METHODE ET SYSTEME D'AMELIORATION DE LA SECURITE DES TRANSACTIONS

ELECTRONIQUES

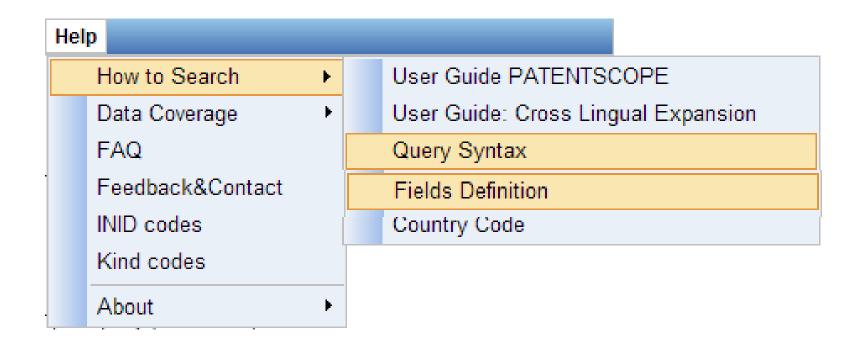
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terminal (1) respectively of first and second encrypted

maccanac: • - construction by the sale terminal (1) of a

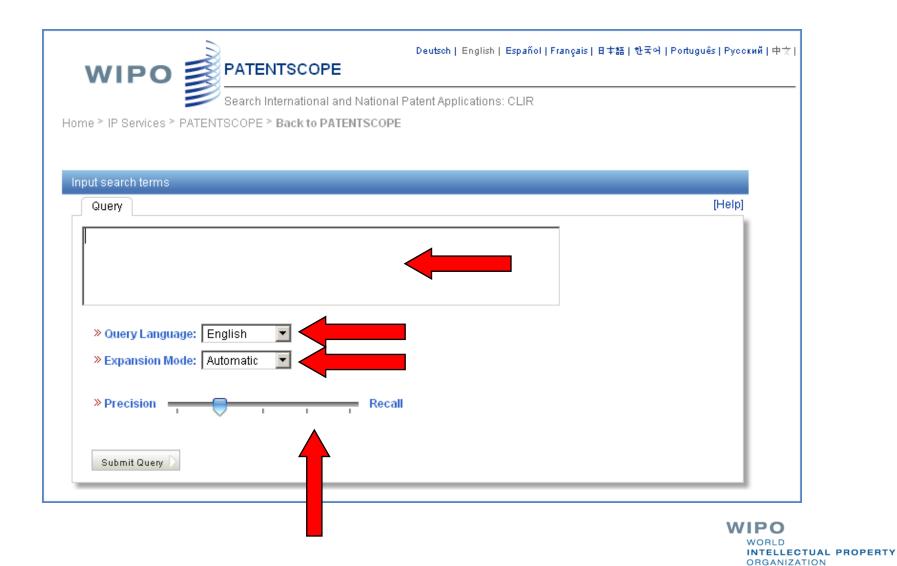


Help menu

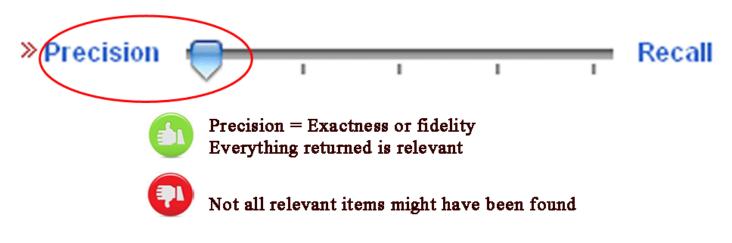


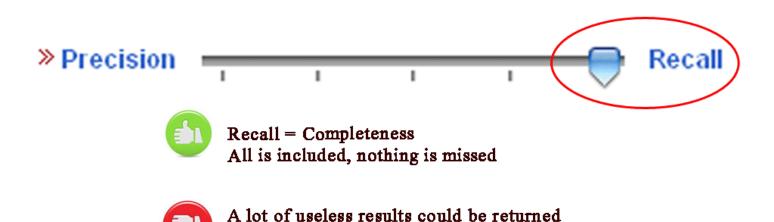


CLIR: the interface



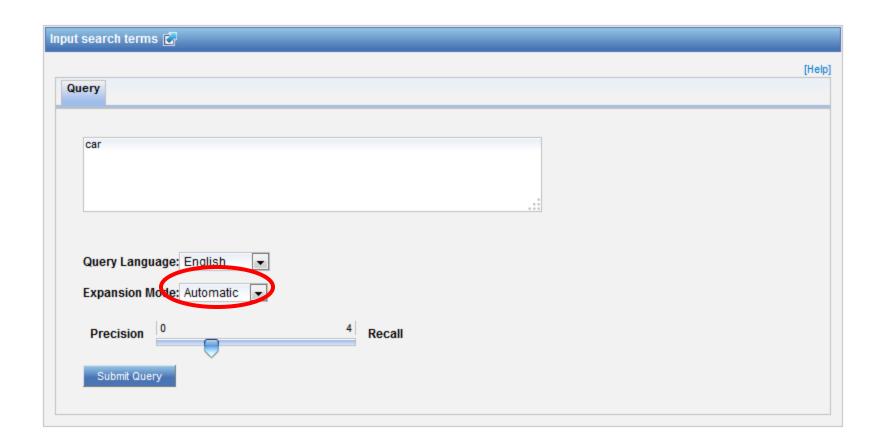
CLIR: precision vs recall





Sorting is necessary

CLIR: an example in automatic mode

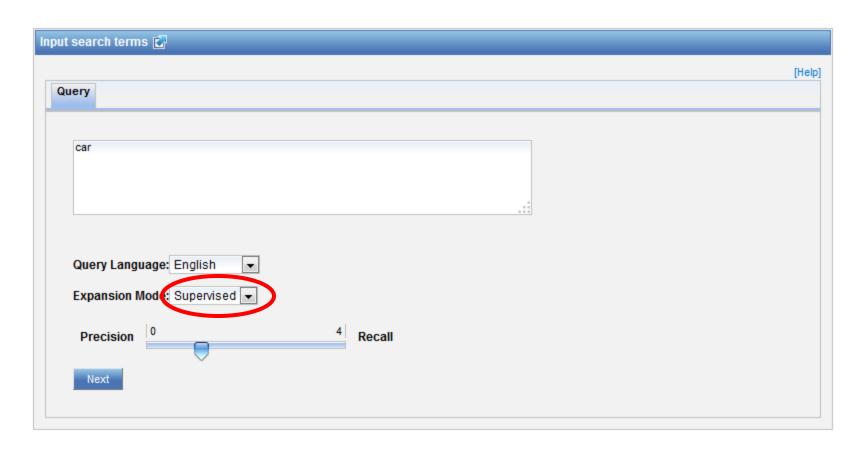




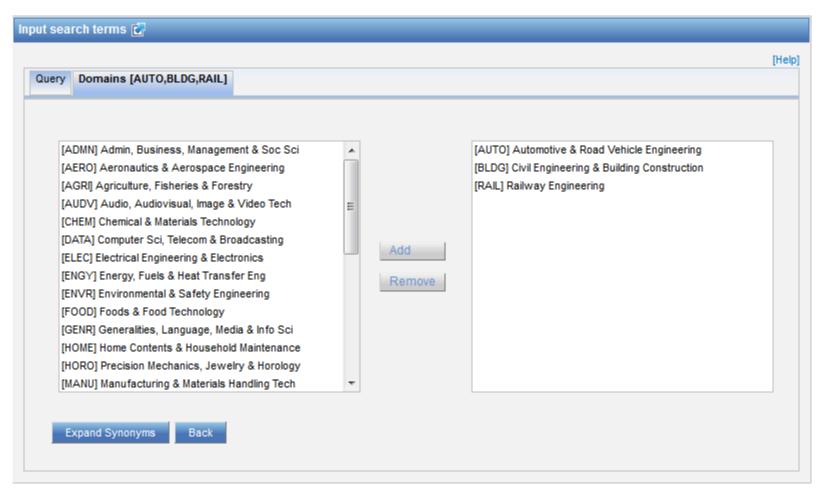
CLIR: an example

Results 1-10 of 2,326,669 for Criteria:FP:((EN_TI:("car" OR "automobile" OR "vehicles" OR "vehicles" OR "Nehicles" "automobile" OR "vehicles" OR "vehicular")) OR (DE_TI:("Auto" OR "Fahrzeug" OR "Kraftfahrzeug" OR "Kabine" OR "Automobil" OR "Vehicles" OR "Car" OR "Personenkraftwagen" OR "Waggon") OR DE_AB:("Auto" OR "Fahrzeug" OR "Kraftfahrzeug" OR "Kabine" OR "Automobil" OR "Vehicles" OR "Car" OR "Personenkraftwagen" OR "Waggon")) OR (ES TI:("cabina" OR "automóvil" OR "vehículo" OR "coche" OR "vagón" OR "carro" OR "auto" OR "culos") OR ES_AB:("cabina" OR "automóvil" OR "vehículo" OR "coche" OR "vagón" OR "carro" OR "auto" OR "culos")) OR (FR TI:("véhicule" OR "voiture" OR "automobile" OR "auto" OR "wagon" OR "cabine" OR "véhicule automobile" OR "plates" OR "véhicules ferroviaires") OR FR_AB:("véhicule" OR voiture" OR "automobile" OR "auto" OR "wagon" OR "cabine" OR "véhicule automobile" OR "plates" OR "véhicules" ferroviaires")) OR (IT_TI:("veicoli" OR "autoveicolo" OR "piamento" OR "autovettura" OR "carrozze" OR "avviamento" OR "parcheggi" OR "rotoli" OR "carro") OR IT_AB:("veicoli" OR "autoveicolo" OR "piamento" OR "autovettura" OR "carrozze" OR "avviamento" OR "parcheggi" OR "rotoli" OR "carro")) OR (JA_TI:("自動車" OR "カご" OR "車両" OR "車輛" OR "カー" OR "の連 絡" OR "車輌" OR "横向き" OR "間の連絡") OR JA_AB:("自動車" OR "かご" OR "車両" OR "車輌" OR "カー" OR "の連絡" OR "車 輛" OR "横向き" OR "間の連絡")) OR (KO_Ti:("차량용" OR "차량" OR "자동차용" OR "자동차" OR "하고" OR "철도차량" OR "철 G 도" OR "카") OR KO_AB:("차량용" OR "차량" OR "자동차용" OR "자동차" OR "하고" OR "철도차량" OR "철도" OR "커")) OR (NL TI:("voertuigen" OR "wagen" OR "gen" OR "auto" OR "wegyoertuigen" OR "vervoermiddelen" OR "autoradio" OR "een" OR "voertuigdakopening") OR NL AB:("voertuigen" OR "wagen" OR "gen" OR "auto" OR "wegvoertuigen" OR "vervoermiddelen" OR "autoradio" OR "een" OR "voertuigdakopening")) OR (PT_TI:("automóvel" OR "veiculos" OR "veiculos" OR "veiculos" OR "veiculos" OR "cabina" OR "gaiola" OR "carros" OR "vagão" OR "vagões") OR PT_AB:("automóvel" OR "veiculos" OR "veiculos" OR "veiculos" OR "cabina" OR "gaiola" OR "carros" OR "vagão" OR "vagões")) OR (RU_TI:("автомобиля" OR "вагона" OR "транспортных средств" ОR "парковки" ОR "автомобильных" ОR "техники" ОR "транспорта" ОR "автомобильной коробкой") OR RU AB: ("автомобиля" OR "вагона" OR "транспортных средств" OR "парковки" OR "автомобильных" OR "техники" OR "транспорта" OR "автомобильной коробкой")) OR (SV_TI:("fordon" OR "förbundna" OR "jernvegsfordon" OR "bil" OR "apparater" OR "stopp" OR "självrörlig plattform i anslutning" OR "fordonsburna" OR "hopsättning") OR SV_AB:("fordon" OR "förbundna" OR "jernvegsfordon" OR "bil" OR "apparater" OR "stopp" OR "självrörlig plattform i anslutning" OR "fordonsburna" OR "hopsättning")) OR (ZH TI:("轿厢" OR "汽车" OR "车辆" OR "车载式" OR "车厢") OR ZH AB:("轿厢" OR "汽车" OR "车辆" OR " 车载式" OR "车厢"))) Office(s):all Language:EN Stemming: true next Page: 1 /232667 Go > prev FP:((EN_TI:("car" OR "automobile" OR "vehicles" OR "vehicular") OR EN_AB:("car" OR Refine Search RSS a Search automobile" OR "vehicles" OR "vehicular")) OR (DE TI:("Auto" OR "Fahrzeug" OR

CLIR: an example in supervised mode

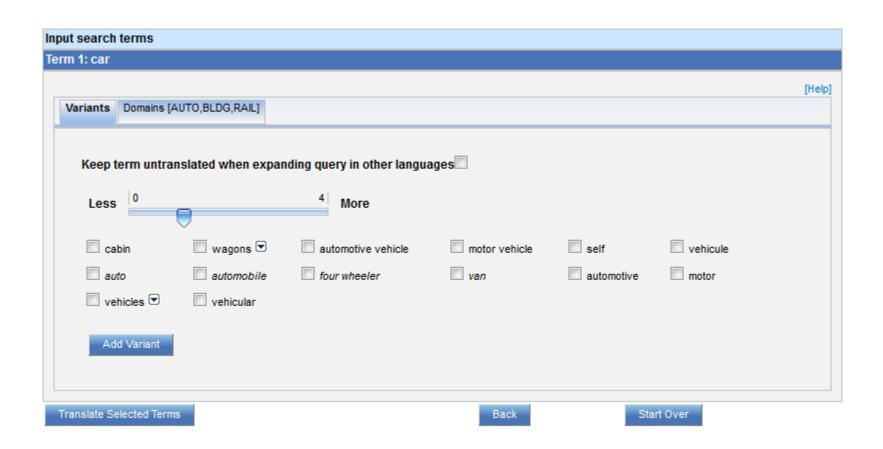


Domain selection





Variants selection





Summary of variants

		[Help]
English 🗵 German 🗵 Spanish 🗵 French	Italian	Dutch ⊠ Portuguese ⊠ Russian ⊠
Swedish Chinese IPC		
"véhicule" OR "voiture" OR "automobile" OR "auto" OR	"wagon" OR "cabine"	
Field(s) you want to search:	Abstract ▼	
Acceptable distance between matched words:	Sentence 🔻	
Stemming	<u> </u>	
Submit Query	Back	Start Over

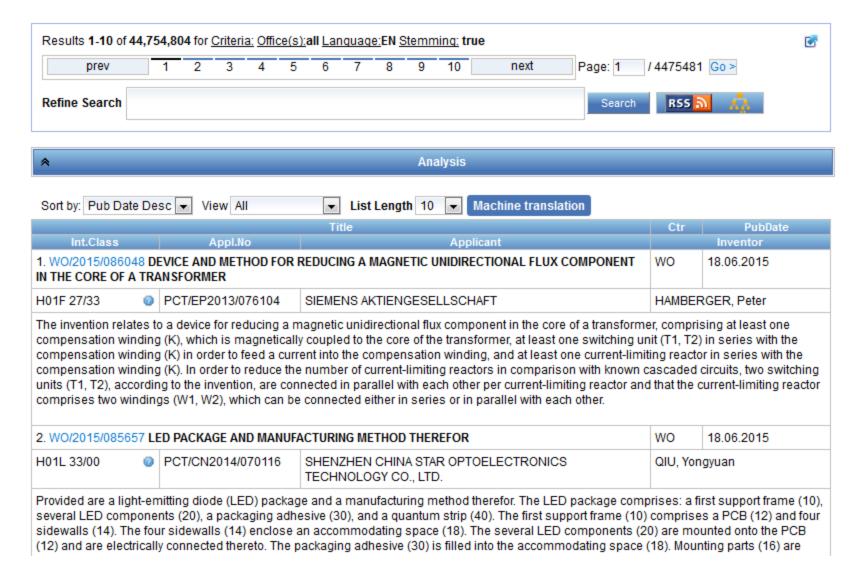


Results

Results 1-10 of 485,291 for Criteria:FP:((EN_AB:("car") OR DE_AB:("Auto" OR "Fahrzeug" OR "Kraftfahrzeug" OR "Kabine" OR "Car" OR "Personenkraftwagen" OR "Waggon" OR "PKW" OR "Autos" OR "Aufzugskabine" OR "Wagen") OR ES_AB:("cabina" OR "automóvil" OR "vehículo" OR "coche" OR "vagón" OR "carro" OR "auto") OR FR AB: ("véhícule" OR "voiture" OR "automobile" OR "auto" OR "wagon" OR "cabine") OR IT AB:("piamento" OR "carro" OR "autovettura" OR "carrozze" OR "avviamento" OR "parcheggi" OR "rotoli" OR "autoveicolo" OR "filo" OR "automobile" OR "perfezionamento" OR "automobilistico" OR "lavaggio") OR JA AB:("自動車" OR "カ ご" OR "車両" OR "車輛" OR "カー") OR KO AB:("차량용" OR "차 6 량" OR "자동차용" OR "자동차" OR "하고" OR "철도차량" OR "철도" OR "카") OR NL AB:("wagen" OR "gen" OR "auto" OR "autoradio" OR "een") OR PT AB:("automóvel" OR "cabina" OR "gaiola" OR "carros" OR "vagão" OR "vagões") OR RU AB: ("автомобиля" OR "вагона" OR "парковки") OR SV AB:("jernvegsfordon" OR "bil" OR "apparater" OR "stopp" OR "hopsättning" OR "personbils") OR ZH AB:("轿厢" OR "汽车" OR "车辆")) AND ICF:(B28 OR B60 OR B61 OR B62 OR B66 OR C04 OR E0? OR F17 OR G09D)) Office(s):all Language:EN Stemming: true prev 5 6 7 8 next Page: 1 /48530 Go > FP:((EN_AB:("car") OR DE_AB:("Auto" OR "Fahrzeug" OR "Kraftfahrzeug" OR "Kabine" OR Refine Search Search RSS a "Car" OR "Personenkraftwagen" OR "Waggon" OR "PKW" OR "Autos" OR "Aufzugskabine"



Reading the result list



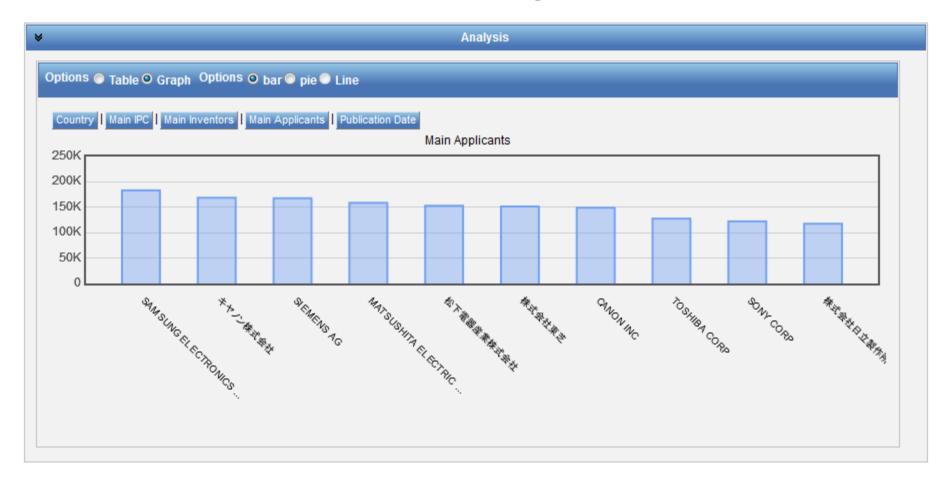
Analysis

	огари Ори	ons O	oar 🌕 pie						
Countrie	S	Mai	in IPC	Main Applicant		Main Inventor		Pul	o Date
Name ¢	No ¢	Name	No ±	Name	No	Name	No	Date	No ¢
Jnited States	10952258	+	, ·	•	+		+	+	
lapan	8553683	G06F	2125723	SAMSUNG ELECTRONICS	176160	Квасенков Олег	18030	2005	1536631
Germany	5511481	A61K	2093798	CO., LTD.		Иванович (RU)		2006	1615345
,		H01L	1787490	MATSUSHITA ELECTRIC IND CO LTD	154526	Antrag auf Nichtnennung	16478	2007	1649551
China	4443635	H04N	1170793		450504	VERZICHT DES	40000	2008	1697916
European Patent Office	2862059	G01N	1077111	SIEMENS AG	153531	ERFINDERS AUF NENNUNG	16363	2009	1707060
				CANON INC	123659	ist der Anmelder	12311		
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Canada	2218898	H04L	993693	SONY CORP	109277	不公告发明人	10316	2011	1708393
Republic of Korea	2047596	C07D	974280	TOSHIBA CORP	101432	gleich Anmelder	6616	2012	1881610
Spain	1443692	A61B	746213	HITACHILTD	95822		5733	2013	1930373
Russian Federation		C07C	714116			UGAWA SHOHACHI	5577	2014	2081517
USSR data)	1409159			SEIKO EPSON CORP	88774	Qiu Zeyou	5059		

Soft by. Pub Date Desc View All List Length To View Machine translation								
	Ctr	PubDate						
Int.Class Appl.No Applicant Inv								
	1. WO/2015/086048 DEVICE AND METHOD FOR REDUCING A MAGNETIC UNIDIRECTIONAL FLUX COMPONENT IN THE CORE OF A TRANSFORMER WO 18.06.2015							
H01F 27/33 O PCT/EP2013/076104 SIEMENS AKTIENGESELLSCHAFT HAMBERGER, Pet								

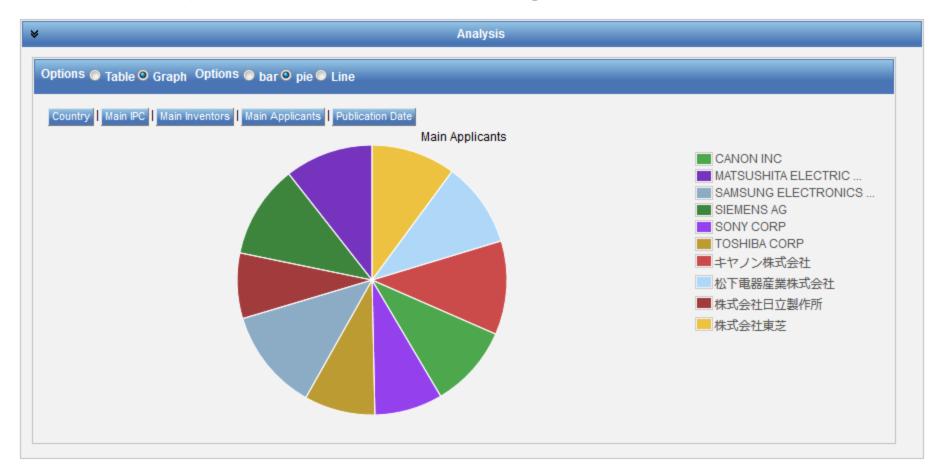
The invention relates to a device for reducing a magnetic unidirectional flux component in the core of a transformer, comprising at least one compensation winding (K), which is magnetically coupled to the core of the transformer, at least one switching unit (T1, T2) in series with the

Display options: table/graph -bar/pie



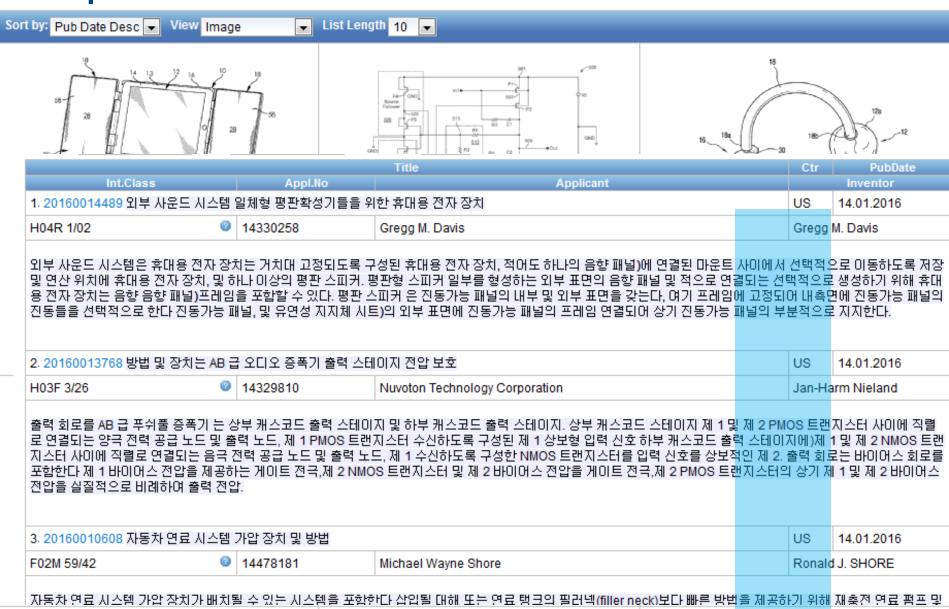


Display options: table/graph -bar/pie





Options



Tabs



3. (WO2013051123) CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

PCT Biblio, Data

Full Text

Notices

Drawings

Documents:

Latest bibliographic data on file with the International Bureau □ Submit observation

PermaLink 3

Pub. No.: W0/2013/051123 International Application No.: PCT/JP2011/073044

Publication Date: International Filing Date: 06.10.2011 11.04.2013

Chapter 2 Demand Filed: 10.05.2012

IPC: F02M 55/02 (2006.01) 2

Applicants: TOYOTA JIDOSHA KABUSHIKI KAISHA [JP/JP]; 1, Toyota-cho, Toyota-shi, Aichi 4718571 (JP) (For All

Designated States Except US).

TOKUDA, Takeshi [JP/JP]; (JP) (For US Only)

Inventors: TOKUDA, Takeshi; (JP)

ONDA, Hironori; 12-1, Ohmiya-cho 2-chome, Gifu-shi, Gifu 5008731 (JP) Agent:

Priority Data:

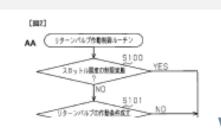
Title (EN) CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

(FR) DISPOSITIF DE COMMANDE POUR MOTEUR À COMBUSTION INTERNE

(JA) 内燃機関の制御装置

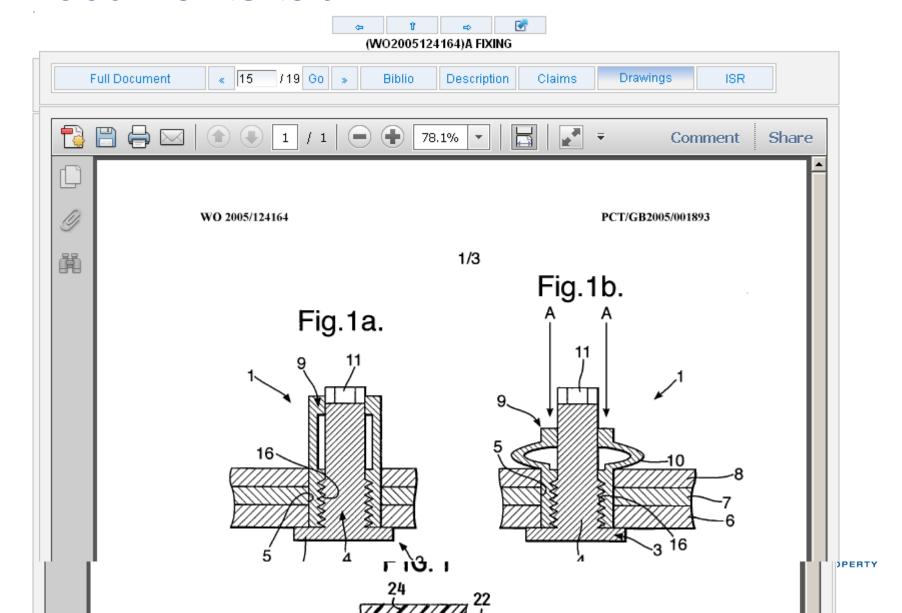
Abstract: (EN)The required fuel supply amount of an internal

combustion engine is reduced by limiting the throttle opening when a high-pressure fuel pump is required to discharge fuel equal to or above the fuel discharge capacity thereof. Further, when the throttle opening is limited (S100: YES), the operation of a return valve through which fuel and vapor thereof can be discharged

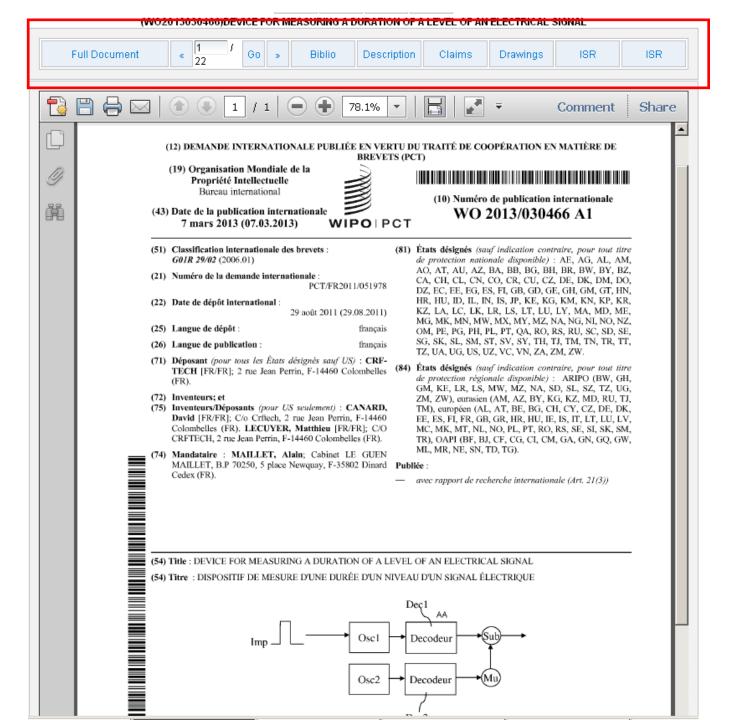


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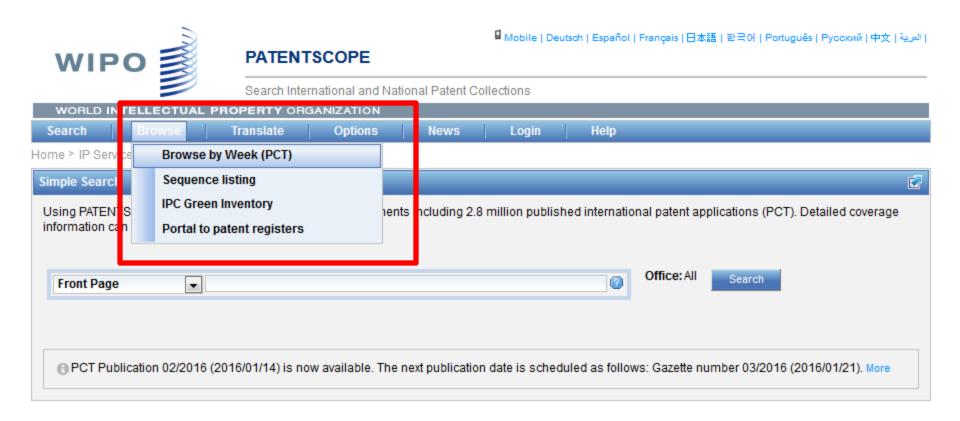
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15/2012(2012-04-12) 14/2012(2012-04-05) 13/2012(2012-03-29)	ROTOR	Initial Publication with ISR[A1]	US2011/060534	F16D 65/12	BRAKE PARTS, INC.
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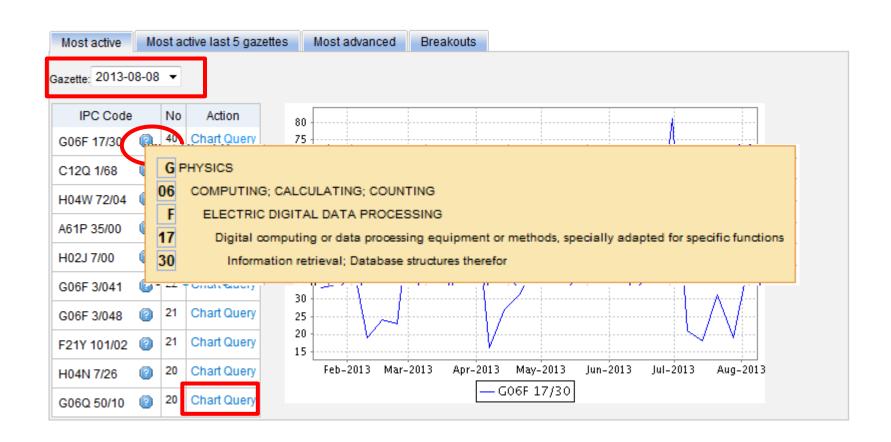
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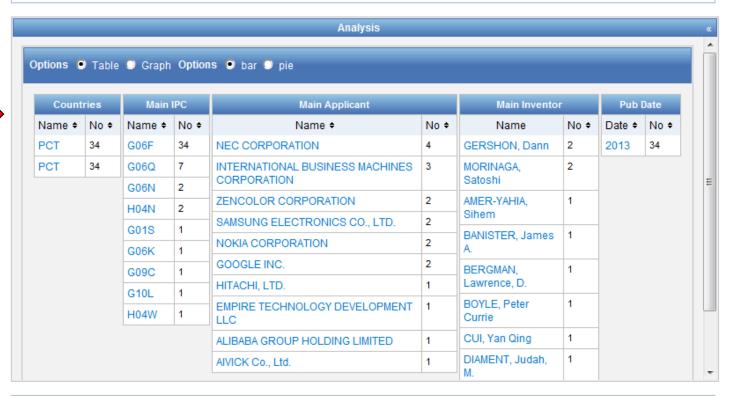




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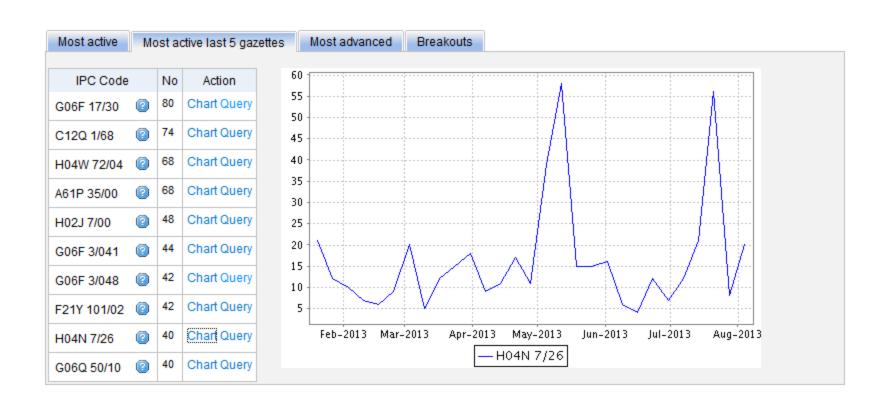


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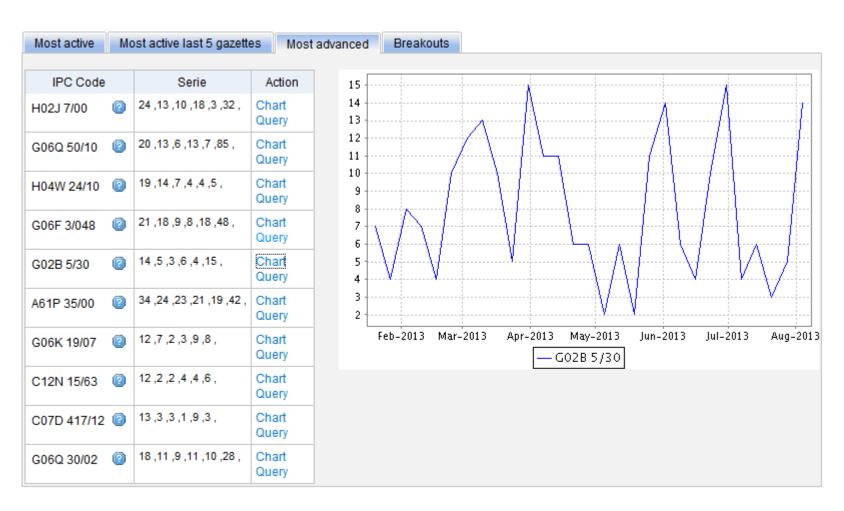
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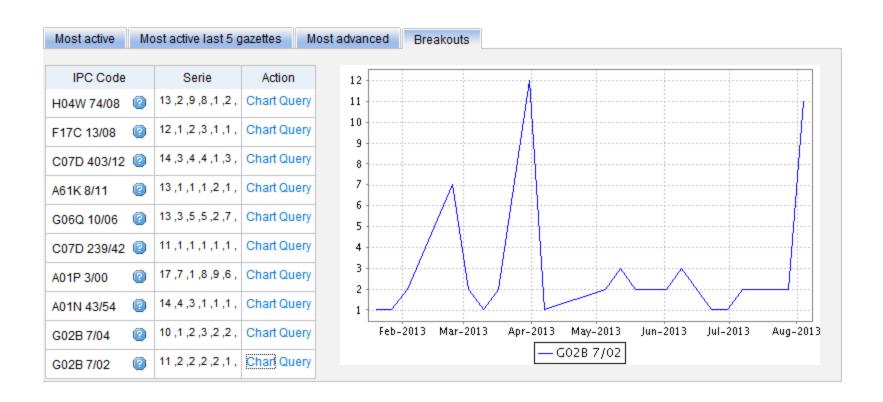


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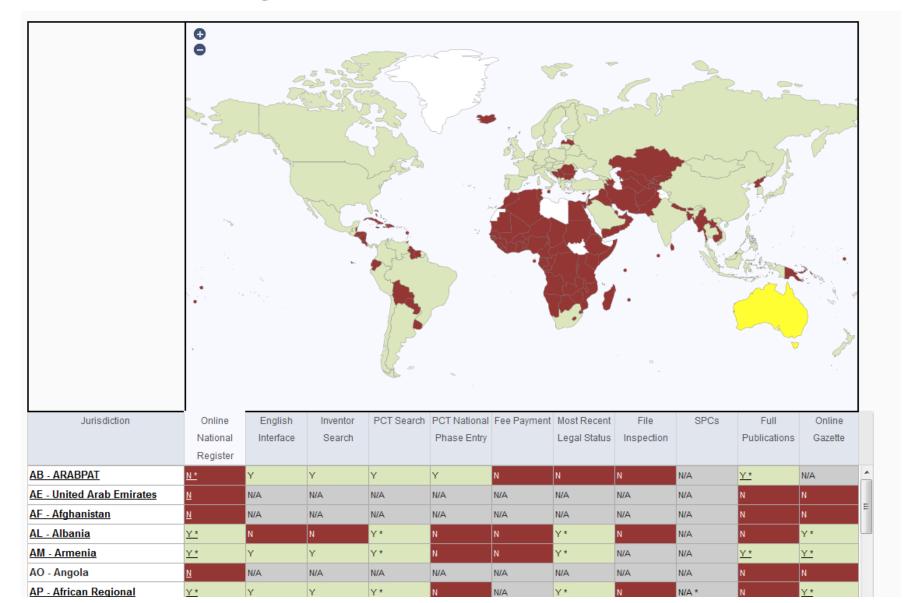
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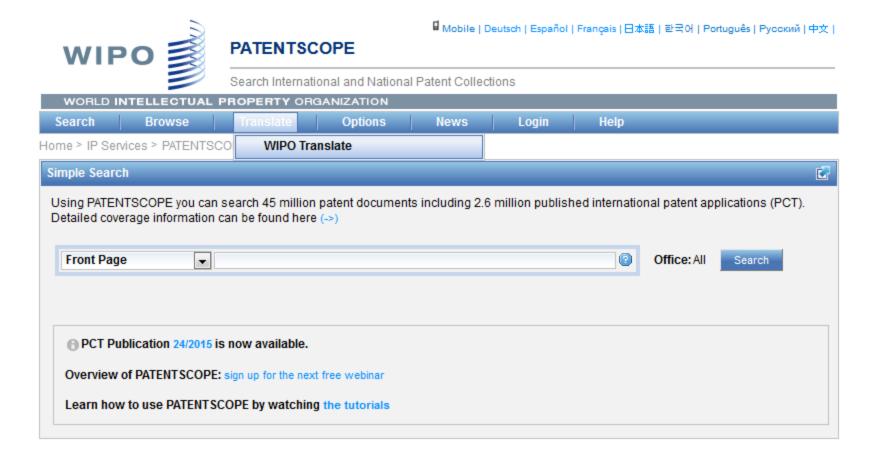
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① . Fuel cells	H01M 4/86-4/98, 8/00-8/24, 12/00-12/08	H01M 4/86-4/98, 8/00-8/24, 12/00-12/08
. Pyrolysis or gasification of biomass	C10B 53/00 C10J	C10B 53/00 C10J
$^{\scriptsize{\textcircled{\tiny B}}}$. Harnessing energy from manmade waste		
$^{f f B}$. Hydro energy		
. Ocean thermal energy conversion (OTEC)	F03G 7/05	F03G 7/05
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[BLDG] Civil Engineering & Building Construction
[CHEM] Chemical & Materials Technology
[DATA] Computer Sci, Telecom & Broadcasting
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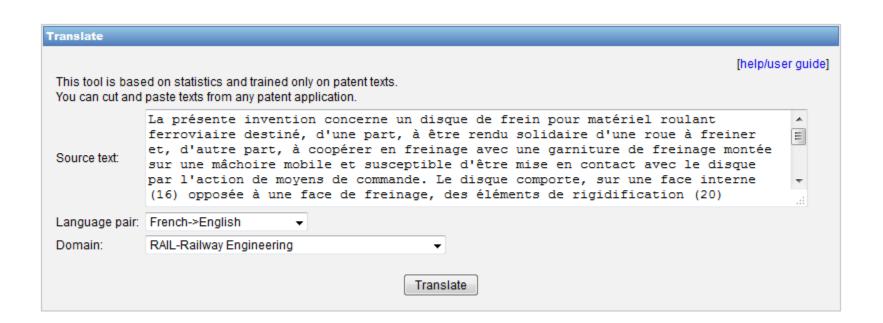
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La présente invention concerne un disque de frein pour matériel roulant ferroviaire destiné, d'une part, à être rendu solidaire d'une roue à freiner et, d'autre part, à coopérer en freinage avec une garniture de freinage montée sur une mâchoire mobile et susceptible d'être mise en contact avec le disque par l'action de moyens de commande. Le disque comporte, sur une face interne (16) opposée à une face de freinage, des éléments de rigidification (20)

Language pair: French->English ▼

Domain: RAIL-Railway Engineering

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La présente invention concerne un disque de frein pour matériel roulant ferroviaire destiné, d'une part, à être rendu solidaire d'une roue à freiner et, d'autre part, à coopérer en freinage avec une garniture de freinage montée sur une mâchoire mobile et susceptible d'être mise en contact avec le disque par l'action de moyens de commande. Le disque comporte, sur une face interne (16) opposée à une face de freinage, des éléments de rigidification (20) comprenant des nervures (22-25) dirigées au moins selon des directions radiales et concentriques par rapport à un axe central (X) de la roue, de manière à maîtriser les déformations du disque dues à la chaleur de freinage. Egalement, le disque comporte au moins quatre trous borgnes internes (44, 46) débouchants vers la roue et destinés à recevoir des goupilles de centrage et de pré-montage des secteurs du disque sur la roue, parmi lesquels au moins deux trous borgnes (46) sont oblongs.

The invention relates to a brake disk for railway rolling stock intended, on the one hand, to be secured to a wheel to be braked and, on the other hand, to cooperate in braking with a brake pad mounted on a movable jaw and contactable with the disk by the action of control means. The disc comprises, on the internal face (16) opposite a braking face, stiffening elements (20) comprising ribs (22-25) oriented at least in radial directions and concentric with a central axis (X) of the wheel so as to control the deformations of the disk braking due to heat. The disk also comprises at least four inner blind holes (44, 46) opening up towards the wheel for receiving centering pins and pre-mounting sectors of the disk on the wheel, of which at least two blind holes (46) are oblong.

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La présente invention concerne un disque de frein pour matériel roulant ferroviaire destiné, d'une part, à être rendu solidaire d'une roue à freiner et, d'autre part, à coopérer en freinage avec une garniture de freinage montée sur une mâchoire mobile et susceptible d'être mise en contact avec le disque par l'action de moyens de commande. Le disque comporte, sur une face interne (16) opposée à une face de freinage, des éléments de rigidification (20) comprenant des nervures (22-25) dirigées au moins selon des directions radiales et concentriques par rapport à un axe central (X) de la roue, de manière à maîtriser les déformations du disque dues à la chaleur de freinage. Egalement, le disque comporte au moins quatre trous borgnes internes (44, 46) débouchants vers la roue et destinés à recevoir des goupilles de centrage et de pré-montage des secteurs du disque sur la roue, parmi lesquels au moins deux trous borgnes (46) sont oblongs.

Edit translation

The invention relates to a brake disk for railway rolling stock intended, on the one hand, to be secured to a wheel to be braked and, on the other hand, to cooperate in braking with a brake pad mounted on a movable jaw and contactable with the disk by the action of control means. The disc comprises, on the internal face (16) opposite a braking face, stiffening elements (20) comprising

UChoose among proposals, or edit the text

The disc comprises, on the internal face (16) opposite a braking face, stiffening elements

The disc comprises , on the internal face (16) opposite a braking face , stiffening elements

the disc comprises **on an inner** face (16) opposite a braking face, stiffening elements

the disc has, on an inner face (16) opposite a braking face, stiffening elements

the disc has, on an inner side (16) opposite a braking face, stiffening elements

the disk has, on an inner face (16) opposite a braking face, stiffening elements

the disk has, on an inner side (16) opposite a braking face, stiffening elements

the disc has, on an internal face (16) opposite a braking face, stiffening elements

the disc comprises **on an** internal face (16) opposite a braking face, stiffening elements

the disc comprises **on an inner sid**e (16) opposite a braking face, stiffening elements

the disk comprises, on the internal face (16) opposite a braking face, stiffening

the disc comprises, on **an inner** face (16) opposite a braking face, stiffening elements

the disk has, on an internal face (16) opposite a braking face, stiffening elements

the disc comprises, on the internal face (16) opposite a braking face, stiffening means

the disc has on an inner face (16) opposite a braking face, stiffening elements

the disc comprises, on **an inner side** (16) opposite a braking face, stiffening elements

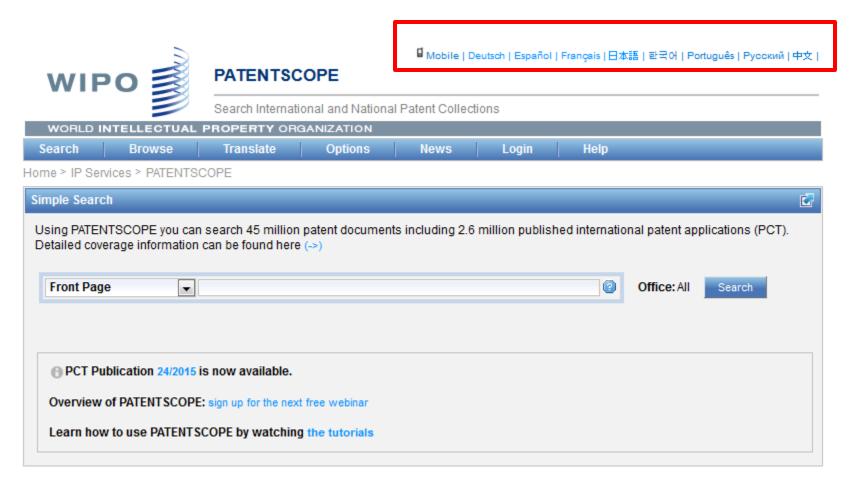
the disk has on an inner face (16) opposite a braking face, stiffening elements

the disc comprises on an inner face (16) opposite a braking face, stiffening means

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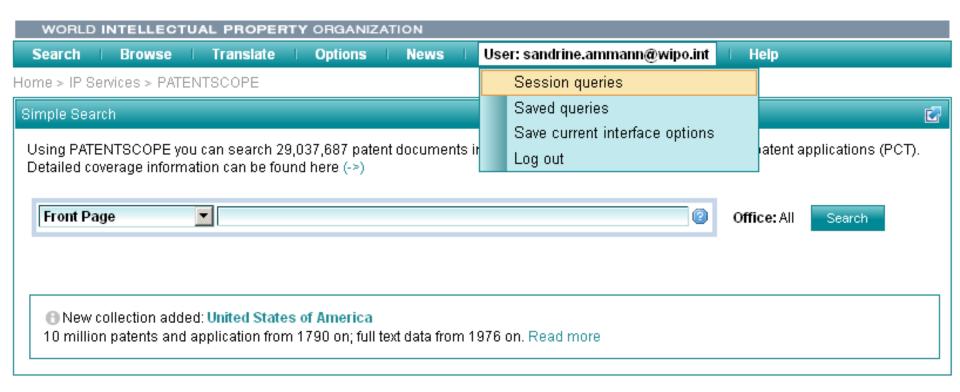


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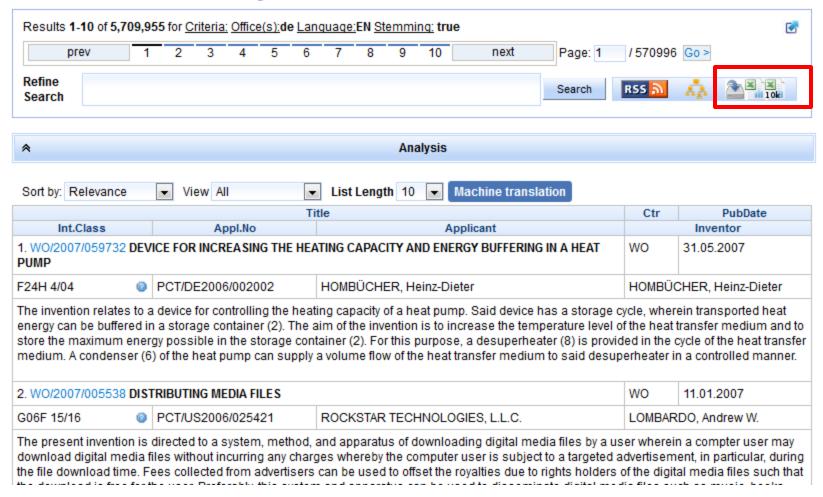
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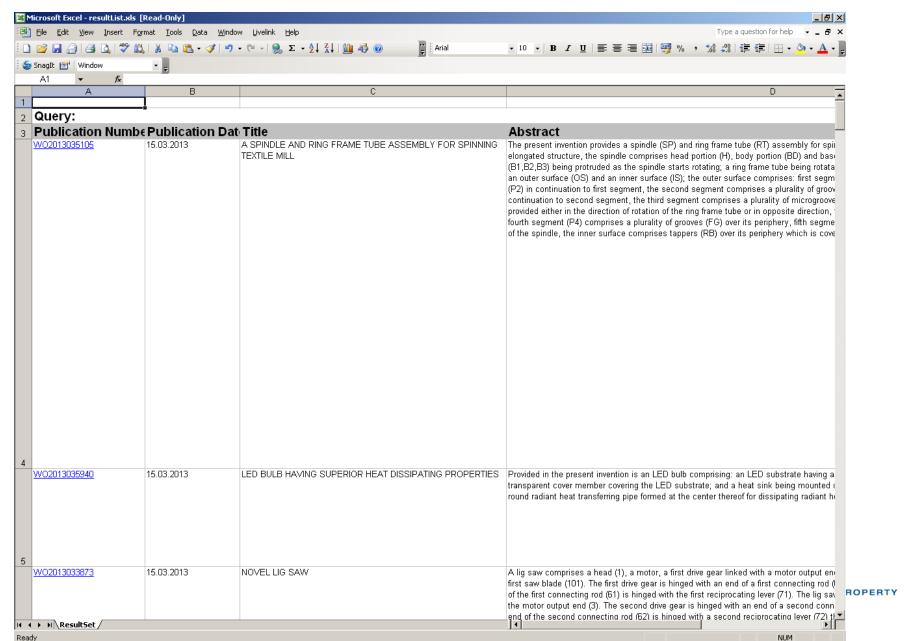
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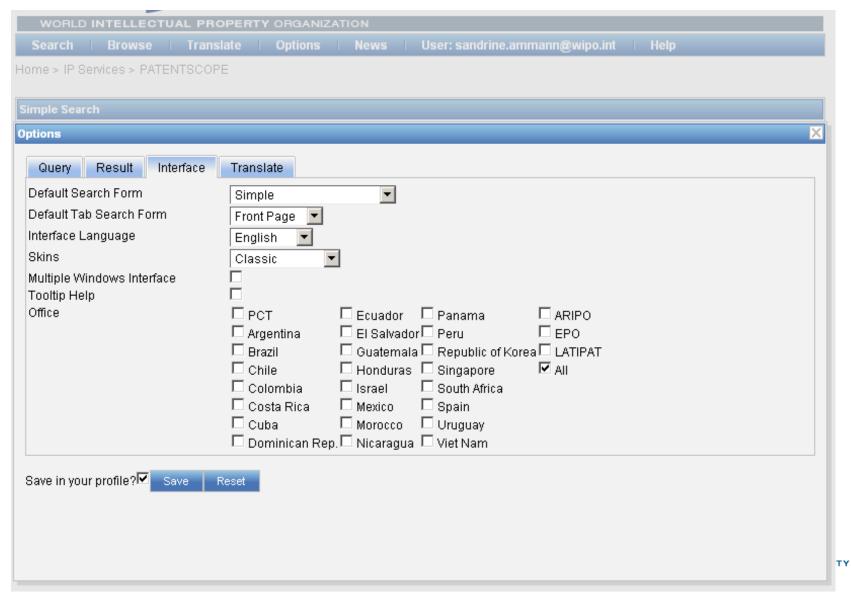




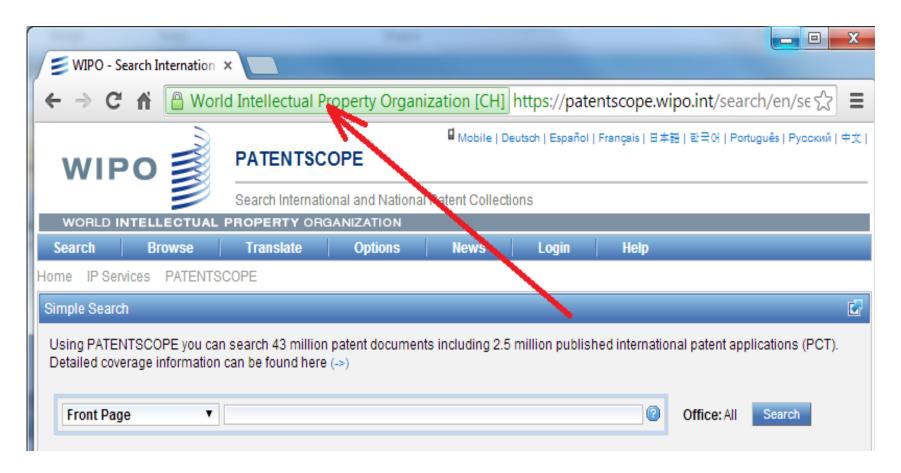
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Account customization



Https protocol





Conclusion

- The most complete and up to date place to search for PCT publications including their related documents
- Searchable descriptions and claims
- Facilitated patent search in languages not familiar to the user
- Powerful Search Operators
- Data Analytic Tools

