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United Nations Symposium, September 2017, Graz

- Speaker: Iustin Diaconescu,
  Head, Patent Database Section, Global Infrastructure Sector

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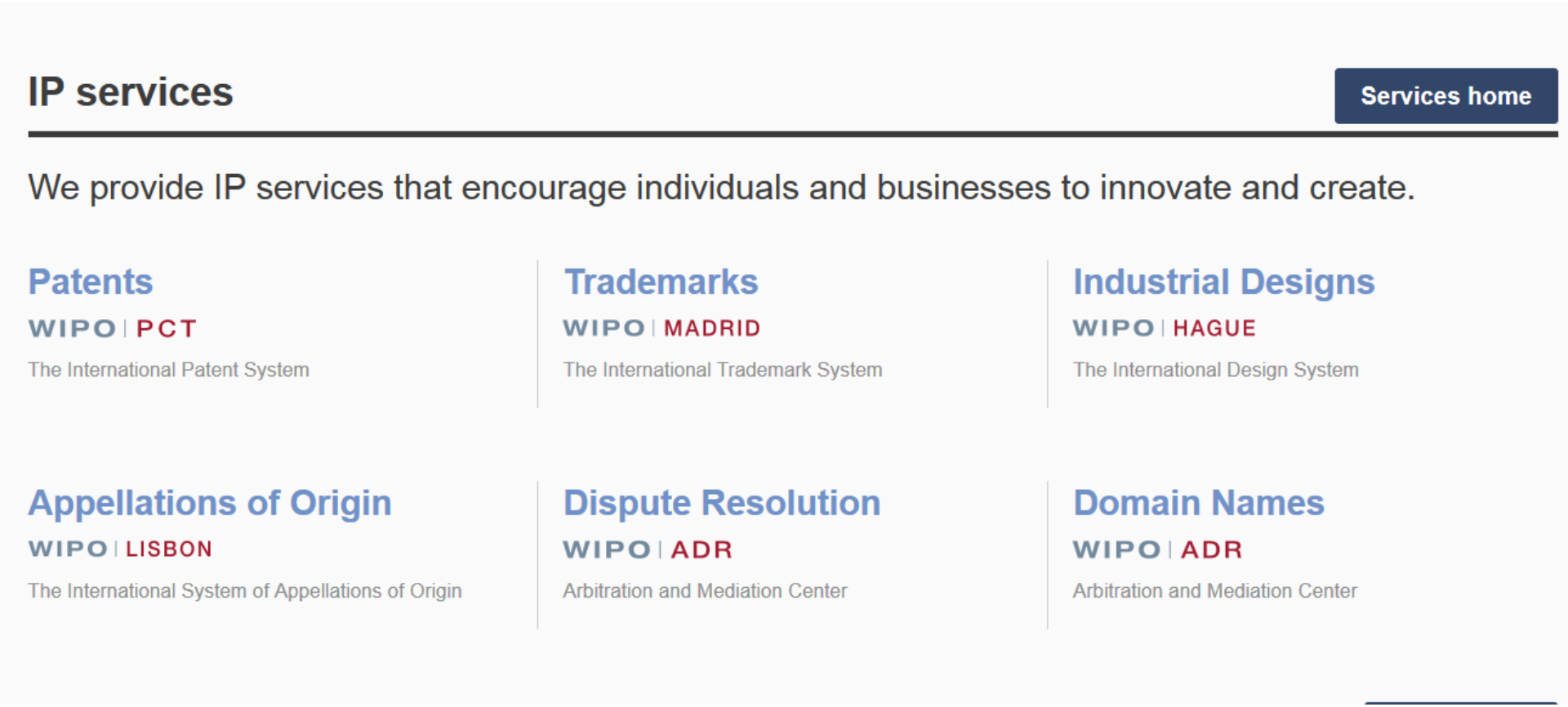

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- assists applicants in seeking patent protection internationally for their inventions
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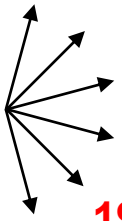
By filing one international patent application under the PCT, applicants can simultaneously seek protection for an invention in a very large number of countries.

Seeking patents multinationally: 3 theoretical options



File applications abroad

193 UN States

Traditional/ Paris

(months)

0

12

File local application

File applications abroad

176 States

PCT

(months)

0

12

16

International publication

18

22

28

30

Enter national phase

File local application

File PCT application

International search report & written opinion

(optional) demand for International preliminary examination

(optional) International preliminary report on patentability

151 States

PCT Advantages

The PCT, as the cornerstone of the international patent system, provides a worldwide system for simplified filing and processing of patent applications, which—

- postpones the major costs associated with internationalizing a patent application
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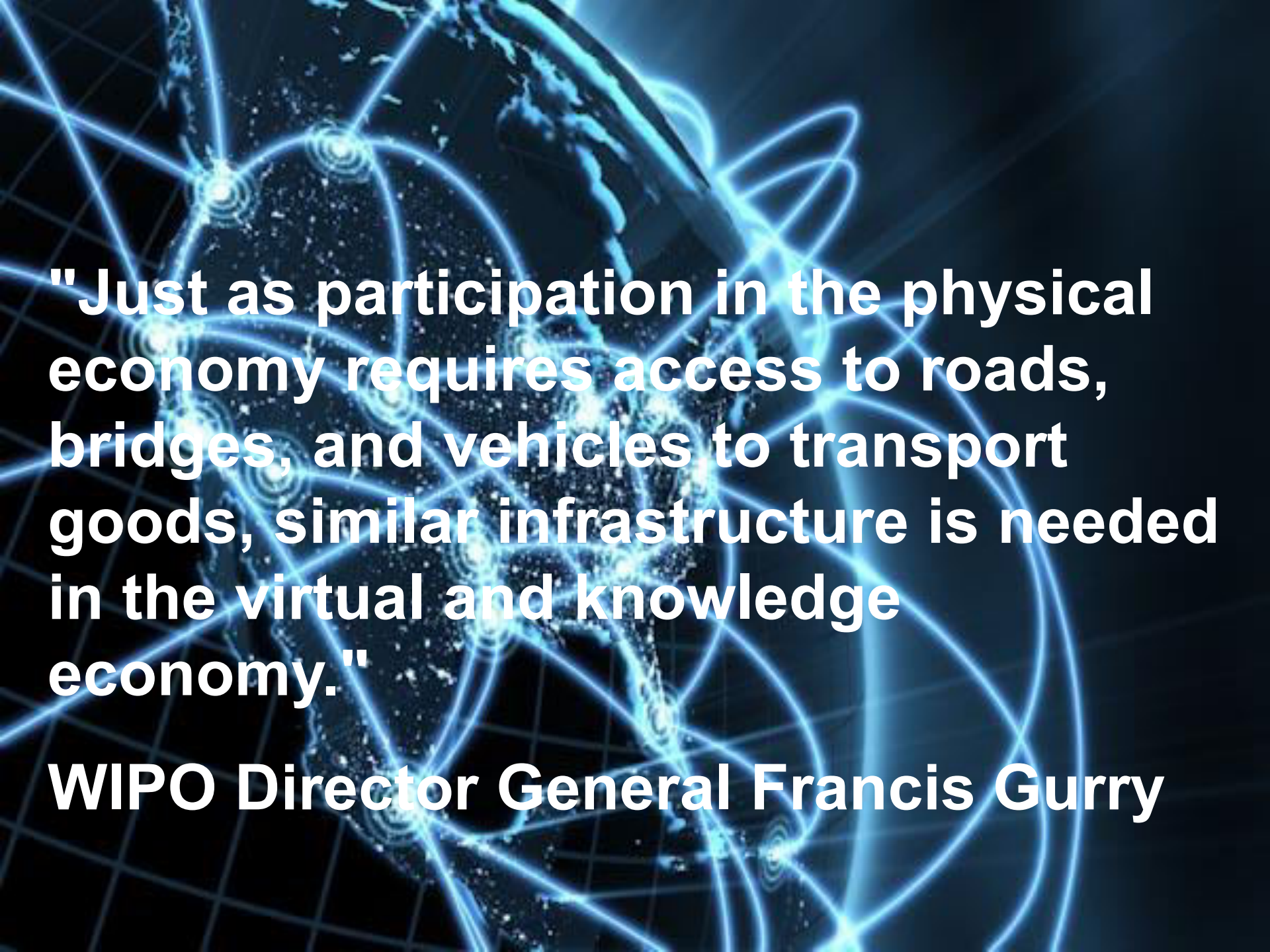
- can result (if PCT reports are positive) in accelerated national phase processing


"Just as participation in the physical economy requires access to roads, bridges, and vehicles to transport goods, similar infrastructure is needed in the virtual and knowledge economy."
WIPO Director General Francis Gurry

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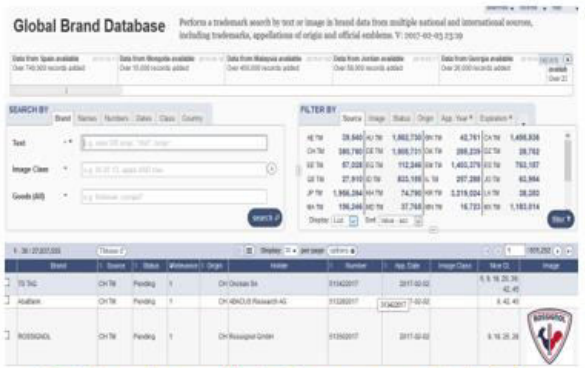

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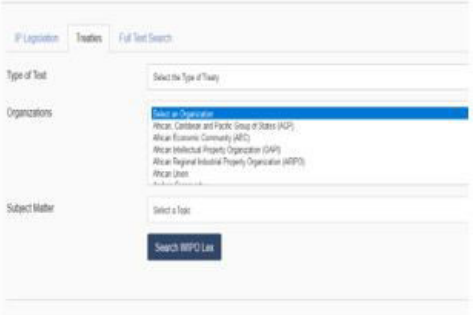

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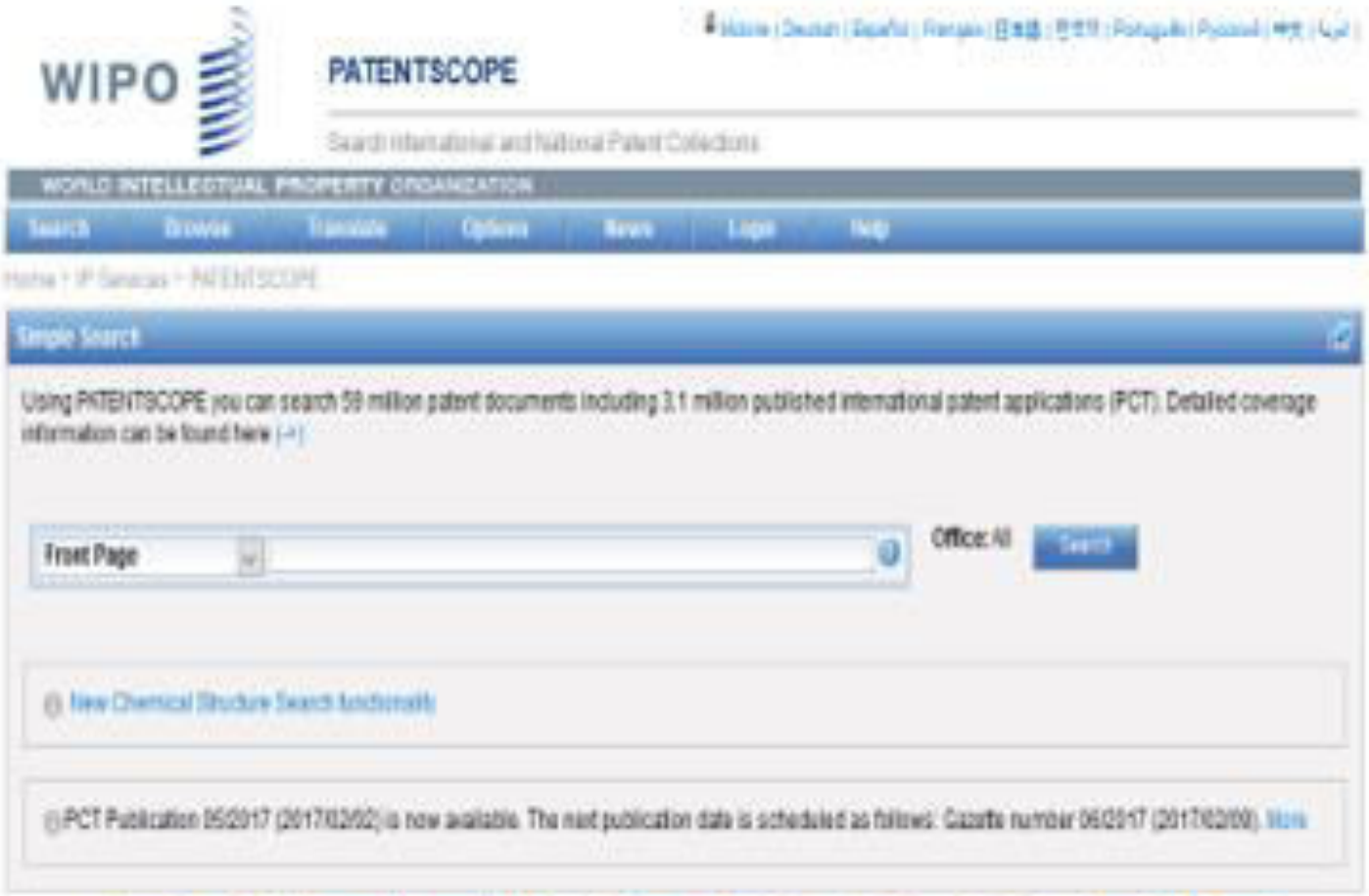

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PATENTSCOPE Summary

- 3.2 million published PCT applications (first publish every week, high quality full text)
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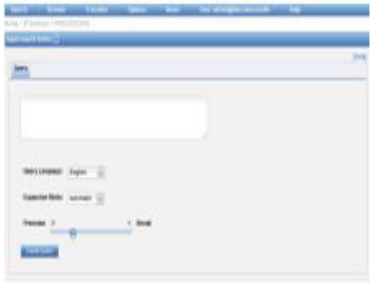

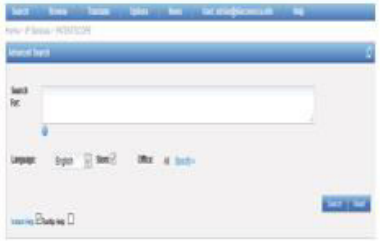

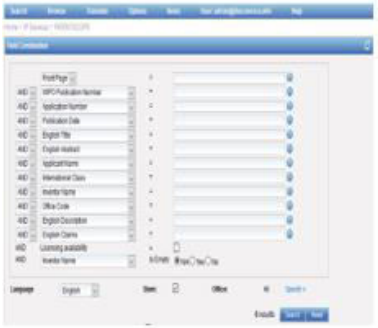


Refine Search
FP:(electric car)
Search
RSS
Analysis
Options Table Graph Options bar pie Line
Countries
Argentina
Canada
China
EAPO
Egypt
European Patent Offi...
Germany
Israel
Japan
Mexico
PCT
Portugal
Republic of Korea
Russian Federation
Russian Federation (...
Singapore
South Africa
Spain
Sort by: Pub Date Desc
View: All
List Length: 50
Machine translation
1 WO2017017703 INFLATABLE AND STACKABLE MODULAR STROLLER
WO 02.02.2017
B62B 9/12 PCT/IT2016/000183 MALAGNINO, Raniero
MALAGNINO, Raniero
Modular inflatable and stackable "All in one" stroller in modern inflatable materials that allows in very little space: - to become a complete stroller with all due to rapid inflation from electric integrated pumps; - to be stored one over another in car or house; - to become a baby car seat quickly; - to become high chair removing the wheels and replacing them with rubber tools (all plugged in the same body carrier); - to become a multi stroller for twins or more brothers.
2 WO2017017855 CAR INFORMATION MANAGEMENT DEVICE
WO 02.02.2017
B60L 7/12 PCT/JP2015/071711 MITSUBISHI ELECTRIC CORPORATION
UEDA, Naoki

Search
Result List
Detail

Coverage: what is included?

Coverage : Details of collections

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

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	
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	

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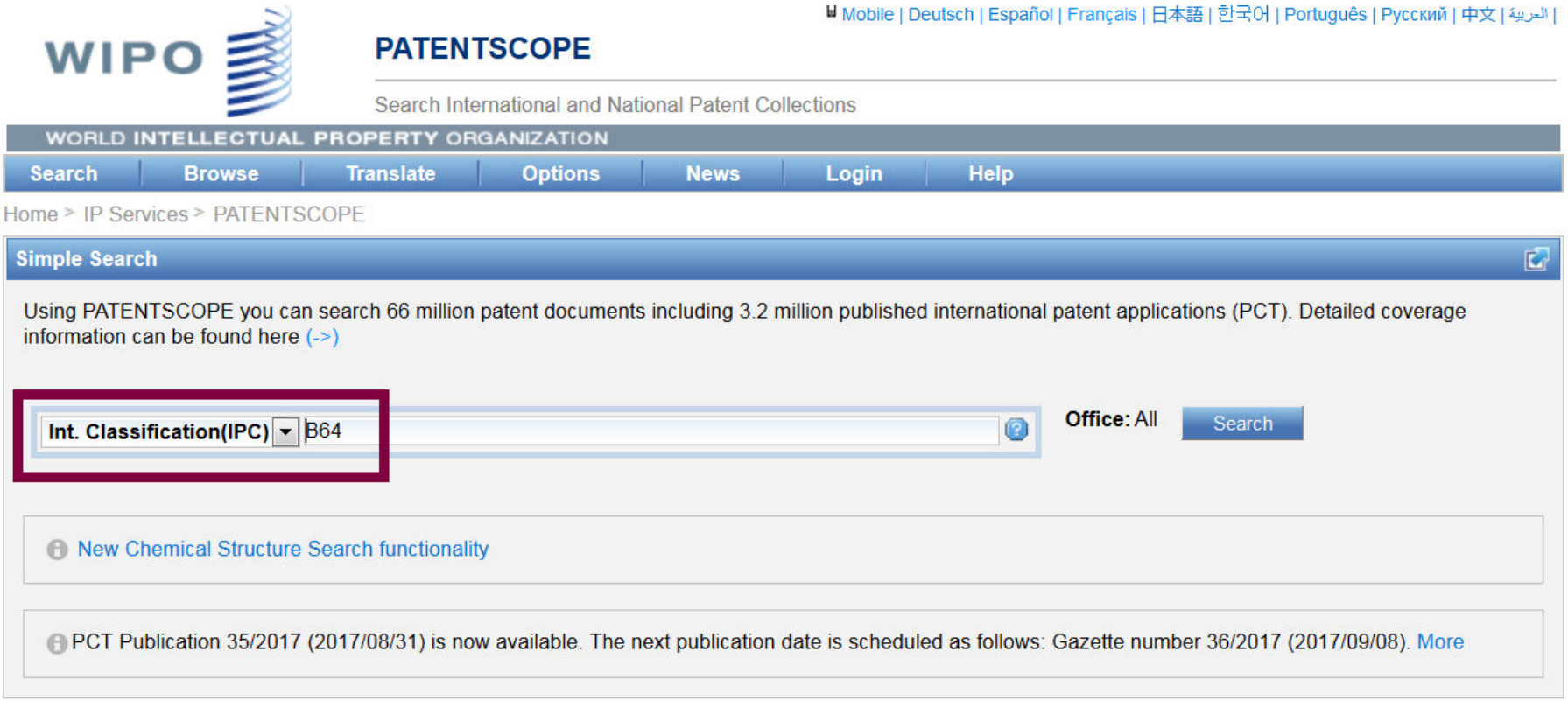
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

IPC code : B64

Aircraft, Aviation, Cosmonautics

−	B	**PERFORMING OPERATIONS; TRANSPORTING** **TRANSPORTING**
−	**B64**	**AIRCRAFT; AVIATION; COSMONAUTICS**
−	**B64G**	**COSMONAUTICS; VEHICLES OR EQUIPMENT THEREFOR** (apparatus for, or methods of, winning materials from extraterrestrial sources E21C 51/00) Note(s) 1. This subclass covers only vehicles, equipment or the like, which are specially adapted for cosmonautics. 2. This subclass does not cover vehicles and equipment applicable to both cosmonautics and aeronautics, which are covered by the appropriate aeronautical subclasses of class B64. 3. In this subclass, the following term is used with the meaning indicated: • "cosmonautics" includes all transport outside the earth's atmosphere, and thus includes artificial earth satellites, and interplanetary and interstellar travel.
+	**B64G 1/00**	**Cosmonautic vehicles** [2006.01]
	B64G 3/00	**Observing or tracking cosmonautic vehicles** (radio or other waves systems for navigation or tracking G01S) [2006.01]
	B64G 4/00	**Tools specially adapted for use in space** [2006.01]
	B64G 5/00	**Ground equipment for vehicles, e.g. starting towers, fuelling arrangements** (B64G 3/00 takes precedence) [2006.01]
	B64G 6/00	**Space suits** [2006.01]
	B64G 7/00	**Simulating cosmonautic conditions, e.g. for conditioning crews** (simulators for teaching or training purposes G09B 9/00) [2006.01]
	B64G 99/00	**Subject matter not provided for in other groups of this subclass** [2009.01]

PATENTSCOPE – Simple Search



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Results **1-10** of **253,700** for Criteria:**IC:"B64"** Office(s):**all** Language:**EN** Stemming: **true**

prev 1 2 3 4 5 6 7 8 9 10 next Page: 1 / 25371 Go >

Refine Search IC:"B64" Search RSS

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Analysis

Options Table Graph Options bar pie Line

Countries	
Name	No
United States	68549
China	31908
France	29603
United Kingdom	21300
European Patent Office	19979
PCT	13813
Japan	12427
Russian Federation	12256
Germany	11002
Canada	9553
Australia	6247
Spain	5168
Republic of Korea	4747

IPC	
Name	No
B64C	124775
B64D	93497
B64G	24949
B64F	24668
G05D	8445
B64B	7737
F02K	5555
F02C	5427
G01C	3984
B29C	3700

Inventor	
Name	No
Гультяев Александр Михайлович (RU)	356
PORTE ALAIN	177
THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	167
gleich Anmelder	131
GUERING BERNARD	124
Халиманович Владимир Иванович (RU)	110
VAUCHEL GUY BERNARD	109
王志成	109
戴相超	105
赵国成	102

Applicant	
Name	No
The Boeing Company	4000
BOEING CO	2498
AIRBUS OPERATIONS GMBH	2188
THE BOEING COMPANY	1948
SNECMA	1450
Airbus Operations GmbH	1390
AIRBUS FRANCE	1319
UNITED AIRCRAFT CORP	1277
AIRBUS OPERATIONS SAS	1193
UNITED TECHNOLOGIES CORP	959

Pub Date	
Date	No
2006	5090
2007	5778
2008	6757
2009	7315
2010	7734
2011	9030
2012	10156
2013	11385
2014	12876
2015	17464
2016	12590

Results **1-10** of **359** for Criteria:**IC:"B64" and EN_ALLTXT:spaceship** Office(s):**all** Language:**EN** Stemming: **true**

prev 1 2 3 4 5 6 7 8 9 10 next Page: 1 / 36 Go >

Refine Search IC:"B64" and EN_ALLTXT:spaceship Search RSS

Instant Help

Analysis

Sort by: Relevance View: Simple **List Length** 10 **Machine translation**

Int.Class	Appl.No	Applicant	Ctr / Inventor	PubDate
1. 5305974 **Spaceship propulsion by momentum transfer**			US	26.04.1994
B64G 1/00	07734797	WILLIS ROBERT C	Willis Robert C.	

A propulsion system for spaceships wherein a first electromagnetic projectile launcher (EMPL) accelerates "smart" projectiles into space and on appropriate trajectories to rendezvous with a distant spaceship at some later time. The smart projectiles stabilize themselves in space using a system of on board thrusters operated by computers. Laser beams and radio transmissions are directed at the spaceship and are monitored by sensors aboard the spaceship. Computers on board the spaceship determine any necessary course corrections for the projectiles based upon the spaceship's sensor system. Appropriate commands are radioed to the projectiles which execute the commanded maneuvers to alter their trajectories. The spaceship carries a second EMPL and a nuclear-powered electricity generating facility to provide electricity to operate the EMPL. The spaceship, the second EMPL and the nuclear power facility are all rotated axially about the long axis of the EMPL to provide both gyroscopic stabilization and also artifical gravity for the crew of the spaceship. The second EMPL is used to catch the projectiles which transfers the momentum of the projectiles to the spaceship thereby accelerating it in the desired direction. Additional acceleration of the spaceship is achieved by again launching the captured projectiles in a direction opposite to the desired direction of motion of the spaceship. The spaceship can be decelerated in a similar manner. Mars can be reached in two months using this system.

2. WO/2002/066326 **SPACESHIP WITH HEAT-ISOLATING OUTER SKIN**			WO	29.08.2002
B64G 1/50	PCT/NL2002/000104	TECHNISCHE UNIVERSITEIT DELFT	VAN BATEN, Tom, Jacobus	

A spaceship provided with a skin layer and cooling member for the skin layer that comprises a liquid-holding layer provided behind the skin layer, with an empty space being present between the liquid holding layer and the skin layer, so as to prevent heat transfer due to conduction between the skin layer and the liquid holding layer. The skin layer is formed from a metal that can tolerate temperatures up to a maximum of approximately 1250 °C.

3. (JP10203500) SPACESHIP MODULE WHICI

National Biblio. Data | **Description** | Claims | Documents

Note: Text based on automatic Optical Character Recognition processes. Please use t

【発明の詳細な説明】

【０００１】

【発明の属する技術分野】本発明は、一般に、宇宙船の設計及び開発に係り、より詳細には、地球軌道を回る衛星のような宇宙船の
決策に係る。

【０００２】

【従来の技術】慣例的に、各宇宙船は、その意図された目的又は任務に独特のものと考えられている。一般に、宇宙船は、推進、通
及び熱制御のような機能を遂行するために複雑なサブシステムの組合せを含む。各サブシステムは、宇宙船の任務に基づいて異なる要件及び特定の機能を有す
る。簡単な宇宙船であっても、独特に相互接続されそして必要に応じて遂行するよう制御されねばならない数百の部品をもつサブシステムを有することになる。

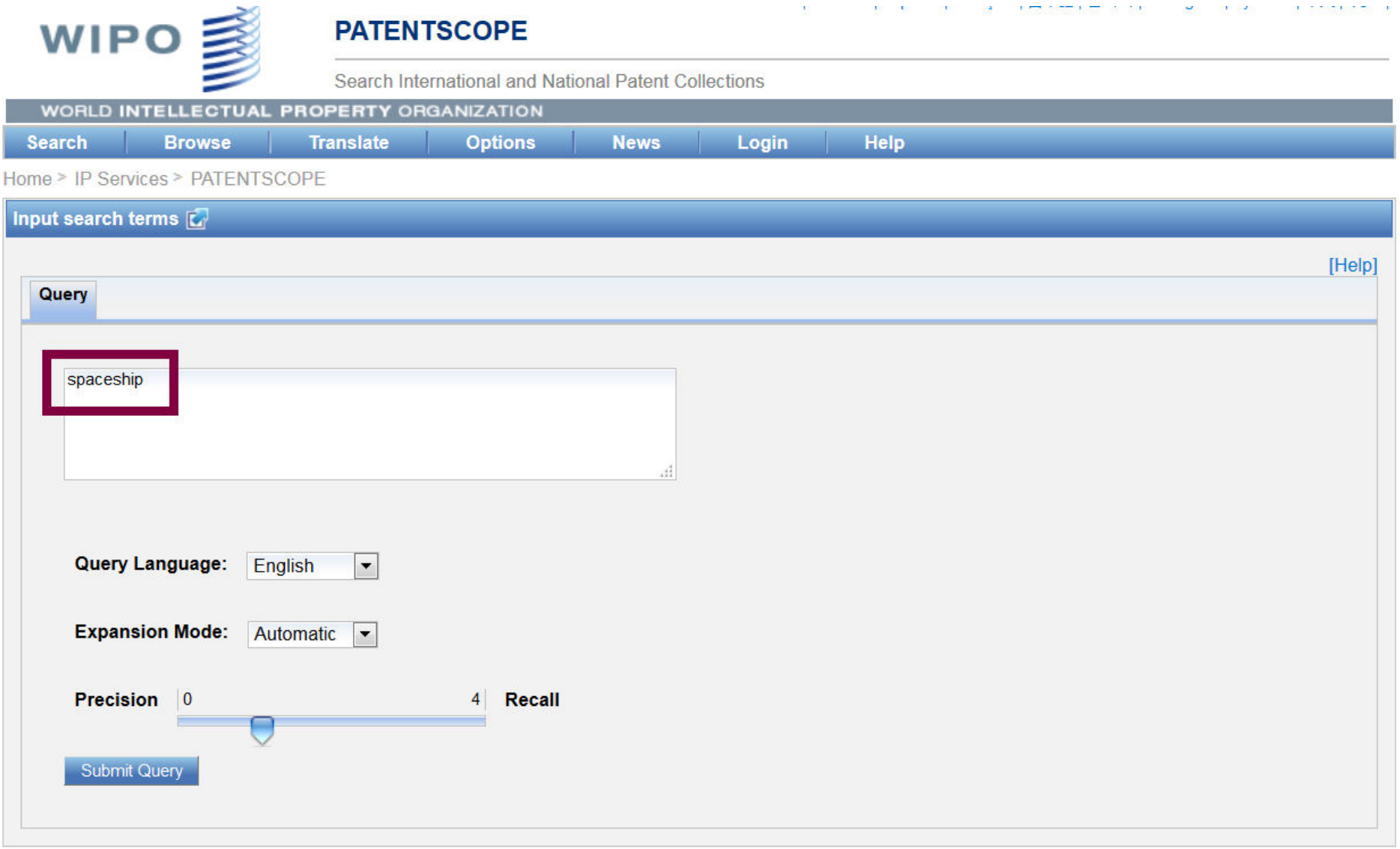
【０００３】今日のほとんどの宇宙船は、非常に高価で、重量がある上に、宇宙船のサブシステムを設計しそして収容する方法から体積の使い方が非効率的である。慣例的に、宇宙船は、ボックス状の構造であり、打ち上げロケットの流線型の覆い内の空間を非常に非効率的に使用する。航空電子（アビオニクス）及びペイロード装置は、宇宙船に取り付けられた大きなボックスに収容される。更に、各ボックス内の航空電子部品は、通常、ボックスの内壁に沿って配置され、従って、ボックスは、ほぼ空となる。今日のペイロードは、当然、大型のソラーアレー及びアンテナを含み、これらは、宇宙船のボックス構造体と打ち上げロケットのカーブした流線型の覆いとの間に収容するか又は宇宙船構造体上に全体的に収容しなければならない。現在の航空電子工学の収容策は、重たいワイヤハーネス及び導波管により接続された多数の異なるユニットに仕切られるので比較的重たいものとなる。大きな装置パネルは、通常、重たい熱伝導材料を組み込むために更に重量が付加され、そしてパネルは、打ち上げ中にこれが遭遇する音響振動の問題を矯正するためにしばしば硬化されねばならない。

【０００４】

【発明が解決しようとする課題】ある設計者は、標準的な宇宙船「バス」の概念を導入し、その意図された目的は、異なる宇宙任務に対して「標準」ビヒクル（乗物）を形成することである。しかしながら、このようないわゆる標準バスは、ある任務から次の任務へと多数の特注の変更をしばしば必要とする。同じ宇宙船に使用される同一のユニットでも、宇宙船内の配置、向き及び順応が異なるために、個々の分析、順応及び文書化をしばしば必要とする。部品又はサブシステム間にデータを送信するための標準化されたコネクタハードウェア及びデータバスを使用することにより設計コストを減少することが最初にある程度進歩した。しかしながら、これらの標準化された特徴があっても、宇宙船設計プロセスは、非常にコストのかかる設計労力と厳密で詳細なシステム統合及びテスト段階とを依然として必要とする。更に、これにより得られる乗物は、その重量及び体積の使い方に関して依然として非効率的である。

【０００５】理想的には、より迅速に設計、製造及びテストすることができると共に、既存の設計の再利用性を容易に増加させ、しかも、任務の融通性を制限することのないコンパクトで軽量な宇宙船を形成するための新規な宇宙船航空電子モジュールが要望される。以下の説明から明らかとなるように、本発明は、これ

PATENTSCOPE – CLIR Search



Results **1-10 of 38,019** for Criteria:**FP:((EN_TI:("spaceship" OR "spacecraft") OR EN_AB:("spaceship" OR "spacecraft")) OR (DA_TI:("rumfartoejer") OR DA_AB:("rumfartoejer")) OR (DE_TI:("Raumfahrzeug" OR "Raumflugkörpers") OR DE_AB:("Raumfahrzeug" OR "Raumflugkörpers")) OR (ES_TI:("espacial" OR "vehículo espacial" OR "ingenios espaciales" OR "vehuculo") OR ES_AB:("espacial" OR "vehículo espacial" OR "ingenios espaciales" OR "vehuculo")) OR (FR_TI:("engin spatial" OR "véhicule spatial" OR "vaisseau spatial" OR "astronefs") OR FR_AB:("engin spatial" OR "véhicule spatial" OR "vaisseau spatial" OR "astronefs")) OR (IT_TI:("veicolo spaziale") OR IT_AB:("veicolo spaziale")) OR (JA_TI:("宇宙船" OR "宇宙" OR "衛星" OR "スペースクラフト") OR JA_AB:("宇宙船" OR "宇宙" OR "衛星" OR "スペースクラフト")) OR (KO_TI:("우주선") OR KO_AB:("우주선")) OR (NL_TI:("ruimtevaartuig") OR NL_AB:("ruimtevaartuig")) OR (PL_TI:("pojazd") OR PL_AB:("pojazd")) OR (PT_TI:("espaçonave") OR PT_AB:("espaçonave")) OR (RU_TI:("космического аппарата" OR "космических" OR "космического летательного аппарата" OR "звездолет") OR RU_AB:("космического аппарата" OR "космических" OR "космического летательного аппарата" OR "звездолет")) OR (SV_TI:("rymdfarkost") OR SV_AB:("rymdfarkost")) OR (ZH_TI:("航天器" OR "宇宙飞船" OR "飞船") OR ZH_AB:("航天器" OR "宇宙飞船" OR "飞船"))** Office(s):**all** Language:**EN** Stemming: **true**

Refine Search FP:((EN_TI:("spaceship" OR "spacecraft") OR EN_AB:("spaceship" OR "spacecraft")) OR (DA_TI:("rumfartoejer") Search RSS

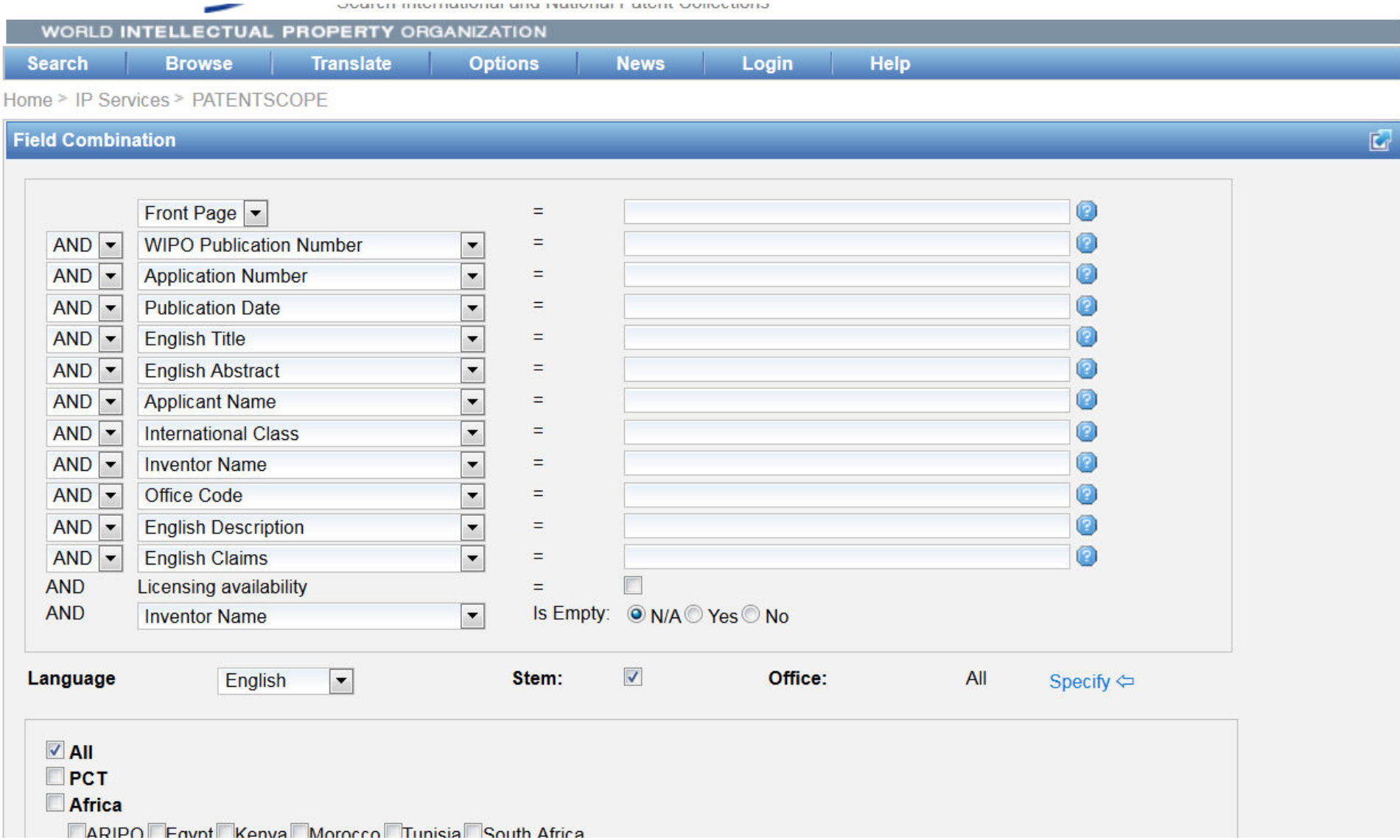
Instant Help ☑

Analysis

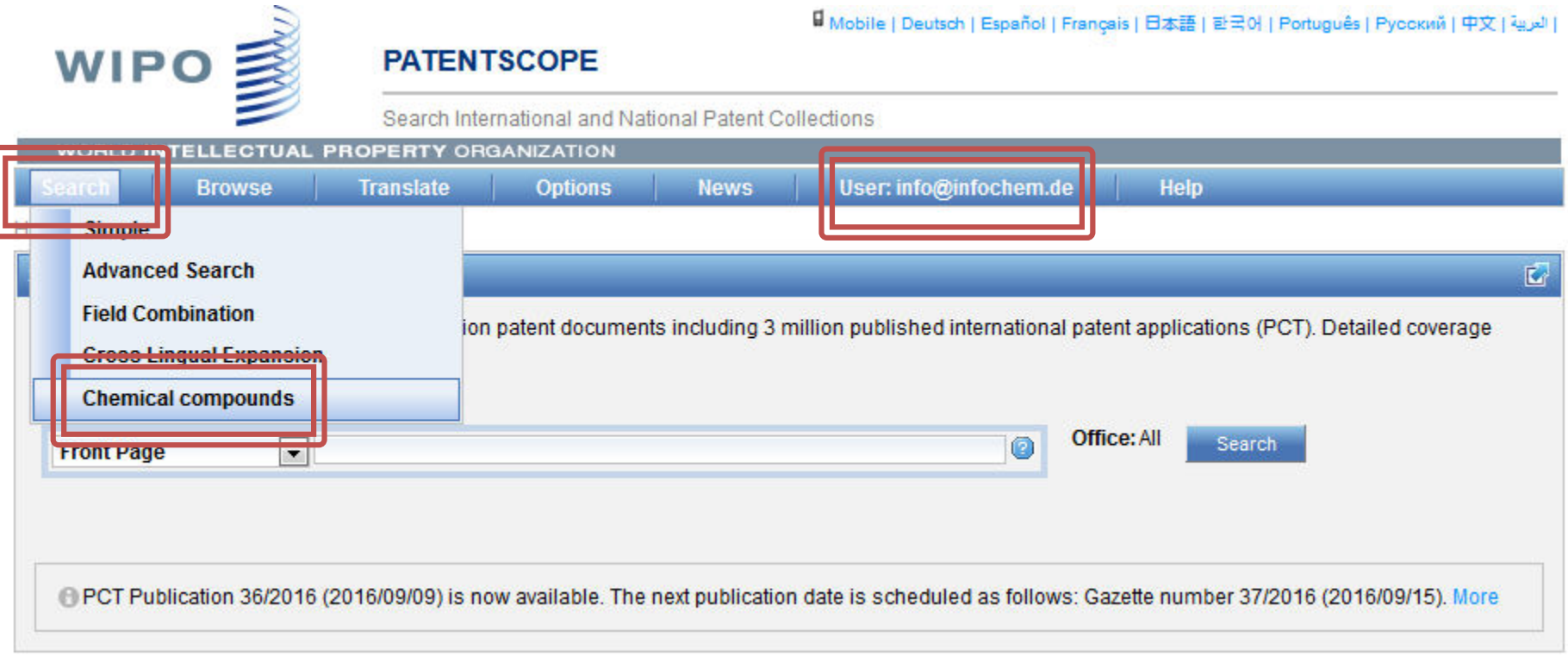
Options ◉ Table ○ Graph Options ◉ bar ○ pie ○ Line

Countries		IPC		Inventor		Applicant		Pub Date	
Name	No	Name	No	Name	No	Name	No	Date	No
Japan	15911	B64G	9143	Kvasenkov Oleg Ivanovich (RU)	1771	MITSUBISHI ELECTRIC CORP	970	2006	1705
Russian Federation	7594	G01S	5356	Квасенков Олег Иванович (RU)	1771	NEC CORP	455	2007	2226
China	2953	H04B	4663	TANIGAWA HIROYASU	182	SEIKO EPSON CORP	412	2008	1747
Spain	2572	G01C	2946	TANIGAWA KAZUNAGA	182	SONY CORP	396	2009	1402
United States	2569	H01Q	2282	Халиманович Владимир Иванович (RU)	130	MATSUSHITA ELECTRIC IND CO LTD	324	2010	1412
PCT	1288	H04N	2209					2011	1467

PATENTSCOPE – Field Search



PATENTSCOPE – Chemical Search



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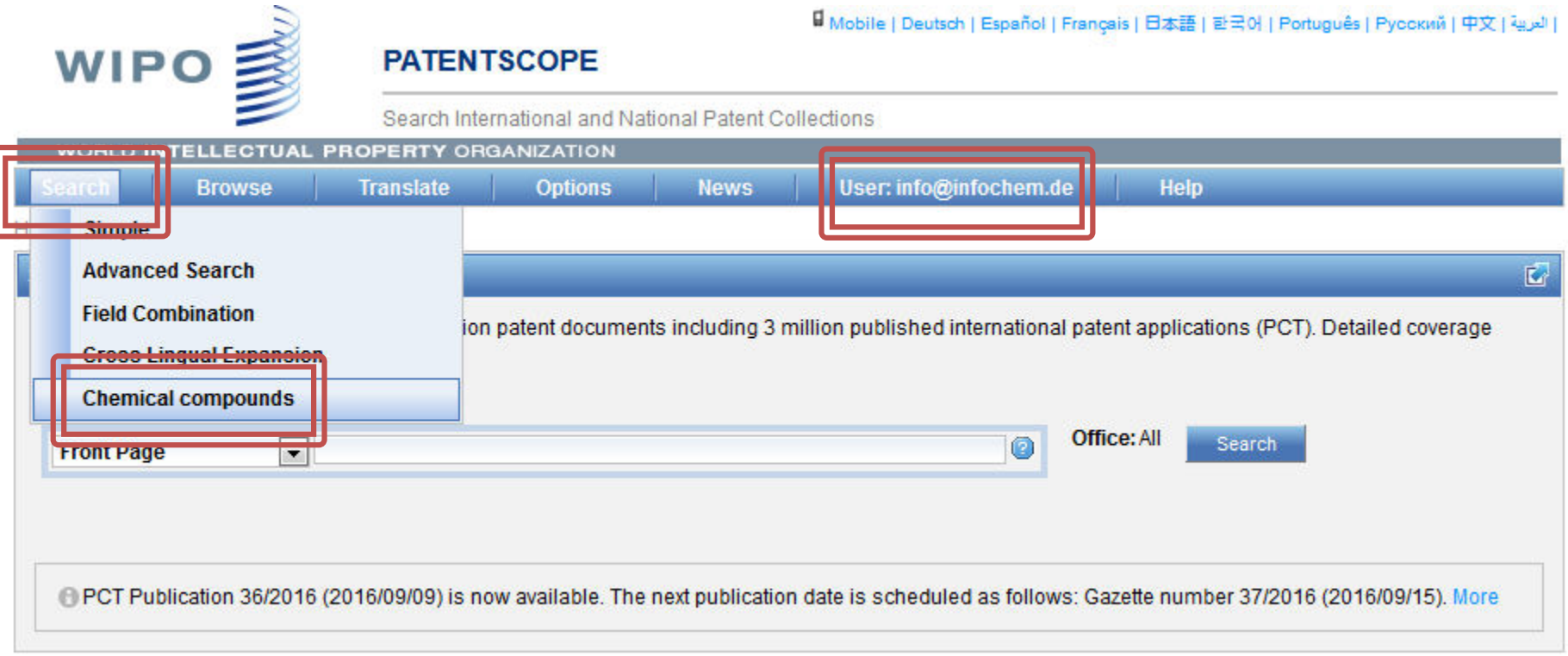
PATENTSCOPE – Chemical Search



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Chemical compounds search

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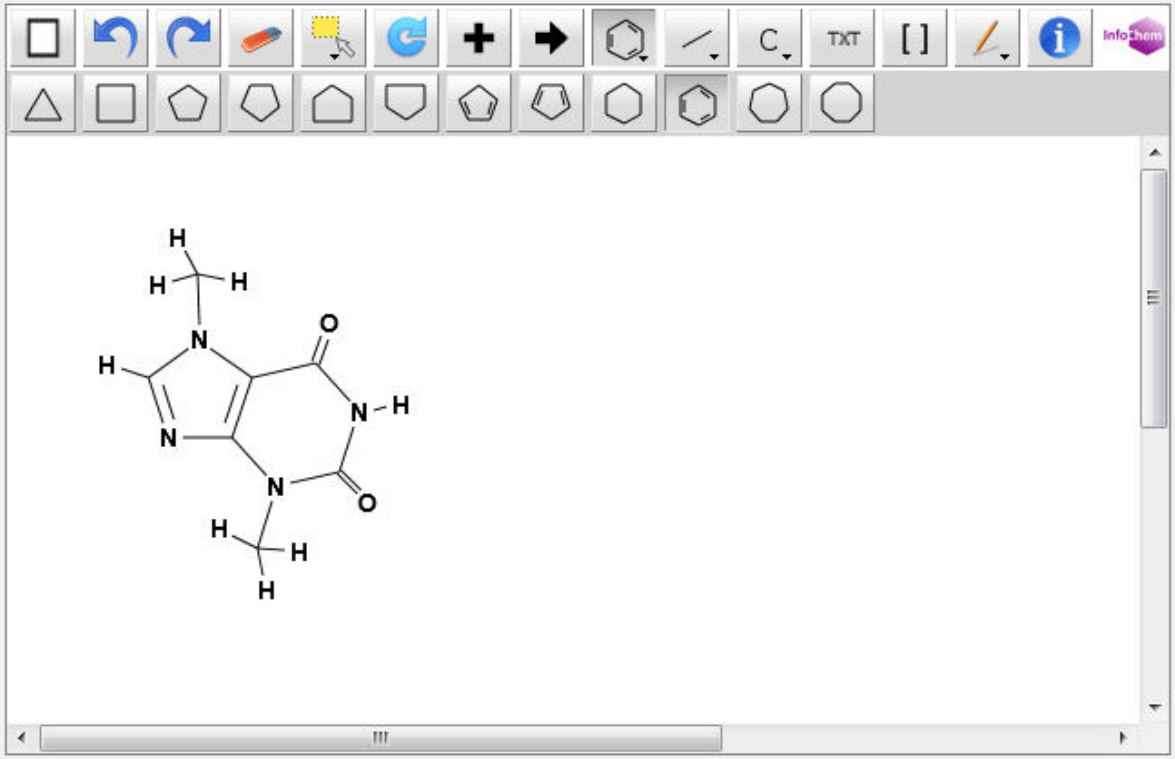

InChI: InChI=1S/C7H8N4O2/c1-10-3-8-5-4(10)6(12)9-7(13)11(5)2/h3H,1-2H3,(H,9,12,13)
InChiKey: YAPQBXQYLJRXSA-UHFFFAOYSA-N
Molecular Formula: C7H8N4O2
Molecular Weight: 180.167 g/mol

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- WIPO builds value around the IP raw data
- PATENTSCOPE: very powerful full text patent prior art search engine
- Try the new neural WIPO*Translate

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Thank you for your attention