



# **WIPO PATENTSCOPE**

## **Latest developments**

**Christophe Mazenc**

**Geneva February 2012**

# Foreword

## PATENTSCOPE « Classic » has been stopped on October 13, 2011



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# Agenda



1. Coverage news

2. New functionality

3. New E-products

# Coverage news (from 2010 to 2011)

- Bibliographic data:  
From 3.6 million patent applications to more than 10 million
- Full text (description and claims):  
From 1.7 million to 4.5 million

Notably:

PCT backfile OCR in Japanese and Chinese (300'000)

Complete European Patent Office backfile (1'500'000)

Russian Federation and Soviet Union backfile  
(1'800'000)

- See for more details:

[http://www.wipo.int/patentscope/search/en/help/data\\_coverage.jsf](http://www.wipo.int/patentscope/search/en/help/data_coverage.jsf)

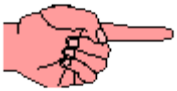
# Collections searchable in PATENTSCOPE

- International and regional collections: **PCT**, **ARIPO**, **EPO**
- National collections: Argentina, **Brazil**, Colombia, Costa Rica, Cuba, **Dominican republic**, Guatemala, **Israel**, **Kenya**, **Mexico**, **Morocco**, Panama, Peru, Republic of Korea, **Russian Federation**, Singapore, **South Africa**, **Spain**, Uruguay, Vietnam,
- Currently working on Japan
- Next USPTO, SIPO, Canada and UK

(in blue: collections added in the last 12 months, in bold: collections where full text is available)

# Agenda

1. Coverage news



2. New functionality

3. New E-products

# PATENTSCOPE new functionality

## ■ Aimed at reducing the language barrier

- interfaces in different languages
- integration with external MT systems
- CLIR (new languages + better quality)
- Translation Assistant For Patents Titles and Abstracts



## ■ Aimed at improving the usability/effectiveness of the search functions

- Improved « Simple » search
- User accounts with customization of the search interface
- Saved queries, export of result lists
- Interface dedicated for mobile phones



# 9 Interface languages:



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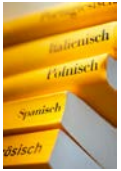
## Простой поиск

Эта система позволяет производить поиск в 1 949 796 опубликованных международных заявках на патент (РСТ), а при включении в поиск патентных документов из региональных и национальных фондов - в 8 091 451. Подробную информацию о сфере охвата базы данных можно получить [здесь](#). (->)

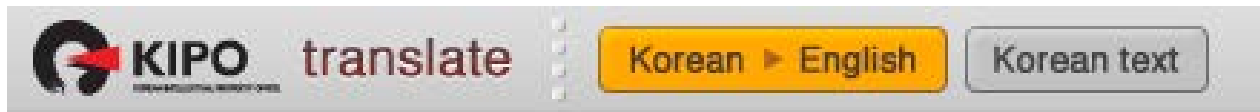
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Ведомство	<b>Примерь:</b> Поиск введенного значения осуществляется в полях "Название", "Реферат", "Номера" и "Имена". <a href="#">electric car~50</a> <a href="#">Smith or Klein</a> <a href="#">WO201000001</a> <a href="#">"sol* panel"~5</a> <a href="#">elect?icit?</a> <a href="#">electric^10 and car^3</a>					
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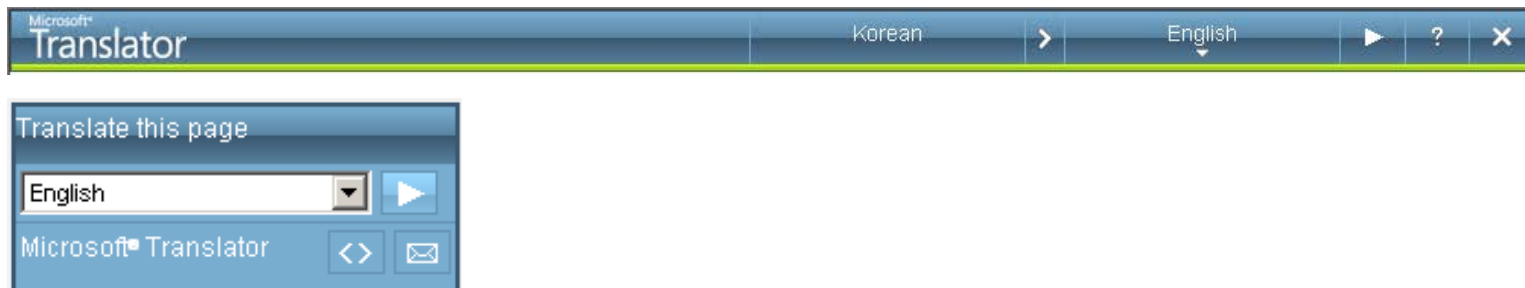
# Coming soon



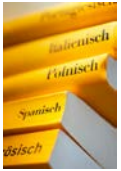
- Integration with KIPO translate for the KR to EN language pair



- Integration with Microsoft Translate



# Improved version of CLIR



- Cross Lingual Search: the more collections in different languages are included in PATENTSCOPE, the more effective it becomes
- Initially (MAY 2010): English, German, French, Spanish and Japanese
- First update (APRIL 2011): Chinese, Korean, Russian and Portuguese added. Coverage and precision improved in the other languages
- Second update (January 2012): Dutch, Italian and Swedish added
- Webservice version of CLIR for patent offices/external partners/subscribers (in tests)

# Translation Assistant for Patent Titles and Abstracts (TAPTA)



- First version deployed in April 2011 at:  
<http://www.wipo.int/patentscope/translate/translate.jsf>
- State of the art Statistical Machine Translation system tailored for patents titles and abstracts (using Moses toolkit): better suited than Google Translate
- Technical domain aware system using 32 domains derived from the International Patent Classification
- Language pairs available: EN=>FR, FR=>EN, EN=>ZH, ZH=>EN

# Translation Assistant for Patent Titles and Abstracts (TAPTA)



- More technical details in our paper presented at the Users track of the European Association for Machine Translation 2011 conference in Belgium on May 30th 2011:
  - « [Bruno Pouliquen, Christophe Mazenc and Aldo lorio. \*Tapta: A user-driven translation system for patent documents based on domain-aware Statistical Machine Translation\*](#) »
- Proceedings are freely available at <http://www.mt-archive.info>

# Translation Assistant for Patent Titles and Abstracts (TAPTA)



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Source text:

Disque de frein pour matériel roulant ferroviaire destiné à être rendu solidaire d'une roue à freiner, et à coopérer en freinage avec une garniture, constituée d'un matériau composite, montée sur une mâchoire mobile et susceptible d'être mise en contact avec le disque par l'intermédiaire de moyens de commande, caractérisé en ce que le disque se subdivise en trois secteurs identiques, chacun d'eux comportant, sur sa face interne (6), opposée à celle de freinage, des éléments de rigidification constitués par des nervures (8) dirigées, de manière régulière, à la fois dans un sens radial et dans un sens concentrique, par rapport à

Language pair: ...

Domain: [automatic detection]

Translate

# TAPTA: translating an abstract



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Source text: Disque de frein pour matériel roulant ferroviaire destiné à être rendu solidaire d'une roue à freiner, et à coopérer en freinage avec une garniture, constituée d'un matériau composite, montée sur une mâchoire mobile et susceptible d'être mise en contact avec le disque par l'intermédiaire de moyens de commande, caractérisé en ce que le disque se subdivise en trois secteurs identiques, chacun d'eux comportant, sur sa face interne (6), opposée à celle de freinage, des éléments de rigidification constitués par des nervures (8) dirigées, de manière régulière, à la fois dans un sens radial et dans un sens concentrique, par rapport à l'axe de la roue.

Language pair: French->English

Domain: Mechanical Engineering

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Brake disc for railway rolling stock to be made integral with a wheel to be braked, and to co-operate with a brake lining, made of a composite material, mounted on a movable jaw and which can be brought into contact with the disk by the control means, characterised in that the disc is divided into three identical sectors, each of them having, on its inner surface (6), opposite to that of the brake, stiffening elements formed by ribs (8) directed, in a regular manner, both in a radial direction and in a concentric direction, **relative to the axis of the wheel**

Disque de frein pour matériel roulant ferroviaire destiné à être rendu solidaire d'une roue à freiner, et à coopérer en freinage avec une garniture, constituée d'un matériau composite, montée sur une mâchoire mobile et susceptible d'être mise en contact avec le disque par l'intermédiaire de moyens de commande, caractérisé en ce que le disque se subdivise en trois secteurs identiques, chacun d'eux comportant, sur sa face interne(6), opposée à celle de freinage, des éléments de rigidification constitués par des nervures(8) dirigées, de manière régulière, à la fois dans un sens radial et dans un sens concentrique, **par rapport à l'axe de la roue**

Edit translation

# PATENTSCOPE new functionality

- Aimed at reducing the language barrier
  - interfaces in different languages
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# User accounts



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- Using CLIR, you can search patent applications in Japanese even if you don't speak Japanese.

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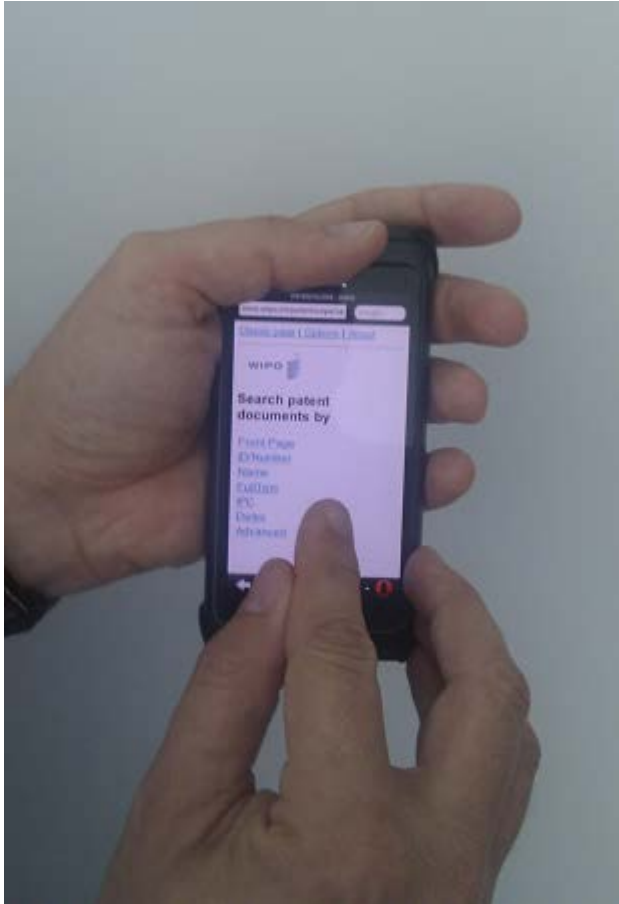
Name(*)	<input type="text"/>
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# Download results



1	A	B	C	D	E	F	G
2	Publication Number	Publication Date	Title	Applicants	Inventors		
3	WO1989005244	15.06.1989	ELECTRIC CAR	WAGENER, Franz	WAGENER, Franz		
4	WO1990011905	18.10.1990	ELECTRIC CAR	KABUSHIKI KAISHA SHIKOKU SOGO KENKYUJO; SATO, Kazunobu; HIGASA, Hiromasa; ISHIKAWA, Kazunobu; HIGASA, Hiromasa	SATO, Kazunobu; HIGASA, Hiromasa		
5	WO1993005977	01.04.1993	ELECTRIC CAR	FRAZER-NASH TECHNOLOGY LIMITED; SIDDIQI, Kamal; WHITEHOUSE, James, Henry; STARNS, Charles	SIDDIQI, Kamal; WHITEHOUSE, James, Henry; STARNS, Charles		
6	WO1993023266	25.11.1993	ELECTRIC CAR	SEIKO EPSON CORPORATION; TOKYO R & D CO., LTD.; TABATA, Kunio; SASAKI, Nobuki; KAWABATA, Kunio; SASAKI, Nobuki; KAWABATA, Kunio	TABATA, Kunio; SASAKI, Nobuki; KAWABATA, Kunio		
7	WO2005095144	13.10.2005	ELECTRIC CAR	GS YUASA CORPORATION; OKUYAMA, Ryoichi; YAMAMOTO, Yoshihiro; MOTOI, Masashi; ASHIDA, Masashi	OKUYAMA RYOICHI; YAMAMOTO YOSHIHIRO		
8	WO2010018902	18.02.2010	ELECTRIC CAR	TOP R&D CO., LTD.; KIM, Gyu Ha	KIM, Gyu Ha		
9	KR1020070012390	25.01.2007	ELECTRIC CAR	GS YUASA CORPORATION	OKUYAMA RYOICHI; YAMAMOTO YOSHIHIRO		
10	EP0417326	20.03.1991	ELECTRIC CAR	KABUSHIKI KAISHA SHIKOKU SOGO KENKYUJO; SATO, KAZUNOBU	SATO, KAZUNOBU; HIGASA, HIROMASA		
11	EP0570542	24.11.1993	ELECTRIC CAR	FRAZER NASH TECHNOLOGY LIMITED; SIDDIQI KAMAL	SIDDIQI KAMAL; WHITEHOUSE JAMES HENRY		
12	EP1733914	20.12.2006	ELECTRIC CAR	GS YUASA CORP	OKUYAMA RYOICHI; YAMAMOTO YOSHIHIRO		
13	WO1999015355	01.04.1999	CONTROLLER OF ELECTRIC CAR	HITACHI, LTD.; KANEKO, Takashi; ANDO, Takeshi; HORIE, Akira; ITOU, Ken	KANEKO, Takashi; ANDO, Takeshi; HORIE, Akira; ITOU, Ken		
14	WO2002032750	25.04.2002	DOUBLE-DRIVEN ELECTRIC CAR	HUKIKOSHI, Syouji	HUKIKOSHI, Syouji		
15	WO2003104009	18.12.2003	ELECTRIC CAR BODY STRUCTURE	JAPAN SCIENCE AND TECHNOLOGY CORPORATION; SHIMIZU, Hiroshi	SHIMIZU, Hiroshi		
16	WO2004041574	21.05.2004	HYBRID ELECTRIC CAR	SUMITOMO ELECTRIC INDUSTRIES, LTD.; HATA, Ryosuke	HATA, Ryosuke		
17	WO2004029436	08.04.2004	FULL HYBRID ELECTRIC CAR	FUKUMOTO, Toshihiro; FUKUMOTO, Yousuke; EBATO, Keiko	FUKUMOTO, Toshihiro; FUKUMOTO, YOUSUKE		
18	WO2006080046	03.08.2006	ELECTRIC CAR CONTROLLER	MITSUBISHI DENKI KABUSHIKI KAISHA; SOGIHARA, Hideki	SOGIHARA, Hideki		
19	WO2006114817	02.11.2006	ELECTRIC CAR CONTROL DEVICE	MITSUBISHI DENKI KABUSHIKI KAISHA; MARUYAMA, Takafumi; NEGORO, Hideto	MARUYAMA, Takafumi; NEGORO, HIDETO		
20	WO2007097086	30.08.2007	ELECTRIC CAR DRIVE UNIT	NTN CORPORATION; MAKINO, Tomoaki	MAKINO, Tomoaki		
21	WO2007132515	22.11.2007	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI DENKI KABUSHIKI KAISHA; KITANAKA, Hidetoshi; KONO, Masaki	KITANAKA, Hidetoshi; KONO, MASAKI		
22	WO2007122671	01.11.2007	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI DENKI KABUSHIKI KAISHA; HIGUCHI, Yutaka; TAKEOKA, Toshiaki	HIGUCHI, Yutaka; TAKEOKA, Toshiaki		
23	WO2008068841	12.06.2008	ELECTRIC CAR CONTROL APPARATUS	Mitsubishi Electric Corporation; NEGORO, Hideto; KONO, Masaki	NEGORO, Hideto; KONO, MASAKI		
24	KR100257853	06.03.2000	INVERTER FOR ELECTRIC CAR	MANDO CORPORATION	MUN, HYEONG TAE		
25	KR1019950007775	18.07.1995	INFANT'S ELECTRIC CAR	CHA, KI-SUK	BAE, MYUNG-JUN		
26	KR1020010024204	26.03.2001	CONTROLLER OF ELECTRIC CAR	KABUSHIKI KAISHA HITACHI SEISAKUSHO (D/B/A HITACHI, LTD.)	KANEKO TAKASHI; ANDO TAKESHI		
27	KR1020070067180	27.06.2007	ELECTRIC CAR CONTROLLER	MITSUBISHI ELECTRIC CORPORATION	SOGIHARA HIDEKI		
28	KR1020070091185	07.09.2007	ELECTRIC CAR CONTROL DEVICE	MITSUBISHI ELECTRIC CORPORATION	MARUYAMA TAKAFUMI; NEGORO HIDETO		
29	KR1020080037014	29.04.2008	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI ELECTRIC CORPORATION	HIGUCHI YUTAKA; TAKEOKA TOSHIKI		
30	KR1020080089571	07.10.2008	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI ELECTRIC CORPORATION	KITANAKA HIDETOSHI; KONO MASAKI		
31	KR1020090075722	08.07.2009	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI ELECTRIC CORPORATION	NEGORO HIDETO; KONO MASAKI		
32	EP2090456	19.08.2009	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI ELECTRIC CORP	NEGORO HIDETO; KONO MASAKI		
33	EP0105497	18.04.1984	ELECTRIC CAR CONTROL SYSTEM	HITACHI, LTD.	JIMBO, YOSHII; KOTAKE, KAZUYUKI		
34	EP0546983	16.06.1993	Long range electric car.	DA COSTA LAGE ANTONIO MANUEL	DA COSTA LAGE ANTONIO MANUEL		
35	EP1440832	28.07.2004	Electric car body structure	JAPAN SCIENCE & TECH AGENCY	SHIMIZU HIROSHI		
36	EP1717077	02.11.2006	Electric car sunshade	LEE TIEN CHU	LEE TIEN CHU		
37	EP1843459	10.10.2007	ELECTRIC CAR CONTROLLER	MITSUBISHI ELECTRIC CORP	SOGIHARA HIDEKI		
38	EP1873002	02.01.2008	ELECTRIC CAR CONTROL DEVICE	MITSUBISHI ELECTRIC CORP	MARUYAMA TAKAFUMI; NEGORO HIDETO		
39	EP2018995	28.01.2009	ELECTRIC CAR CONTROL APPARATUS	MITSUBISHI ELECTRIC CORP	KITANAKA HIDETOSHI; KONO MASAKI		
40	WO1992012873	06.08.1992	APPARATUS FOR CONTROLLING ELECTRIC CAR	HITACHI, LTD.	OKAMATSU, Shigetoshi		
41	WO1998018646	07.05.1998	HYDRAULIC ENGINE-CARRYING ELECTRIC CAR	TOMOYASU, Yoko; TOMOYASU, Yutaka	TOMOYASU, Yutaka		
42	WO2002064386	22.08.2002	SUSPENSION MECHANISM OF ELECTRIC CAR	JAPAN SCIENCE AND TECHNOLOGY CORPORATION; SHIMIZU, Hiroshi	SHIMIZU, Hiroshi		
43	WO2002047936	20.06.2002	STEERING MECHANISM OF ELECTRIC CAR	JAPAN SCIENCE AND TECHNOLOGY CORPORATION; SHIMIZU, Hiroshi	SHIMIZU, Hiroshi		
44	WO2005115792	08.12.2005	CONTROL APPARATUS FOR ELECTRIC CAR	TOYOTA JIDOSHA KABUSHIKI KAISHA; SHIGE, Masahiro	SHIGE, Masahiro		
45	WO2007122696	01.11.2007	ELECTRIC CAR DRIVE CONTROL APPARATUS	MITSUBISHI DENKI KABUSHIKI KAISHA; KAYANO, Hiroyuki; KAKIZAKI, Tsuneyasu	KAYANO, Hiroyuki; KAKIZAKI, Tsuneyasu		

# Interface for mobile phones



- GUI adapted to low resolution screens
- Tuned for consuming the minimum bandwidth (to reduce roaming costs)

# Interface for mobile phones



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| <input type="checkbox"/> Brazil         | <input type="checkbox"/> Guatemala   | <input type="checkbox"/> Peru              | <input checked="" type="checkbox"/> EPO |
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| <input type="checkbox"/> Dominican Rep. | <input type="checkbox"/> Morocco     | <input type="checkbox"/> Uruguay           |   |

### Examples:

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⚡ "electric car"~50

⚡ Smith or Klein

⚡ WO2010000001

⚡ "sol\* panel"~5

⚡ elect?icit?

⚡ electric^10 and car^3

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1. 2249030	<a href="#">Wind turbine</a>
2. 2108822	<a href="#">Wind deflector and wind turbine same</a>
3. WO/2009/082204	<a href="#">WIND TURBINE</a>
4. 2048507	<a href="#">Wind turbine</a>
5. WO/2009/135261	<a href="#">WIND TURBINE</a>
6. 2039928	<a href="#">Wind turbine</a>
7. 1604109	<a href="#">WIND TURBINE</a>
8. 2154361	<a href="#">WIND TURBINE</a>

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### 4. (EP2048507) Wind turbine sensors system

**Pub. No.:** 2048507  
**Int. Appl. No.:** 08165627  
**Pub Date:** Apr 15, 2009  
**Int. Filing Date:** Oct 1, 2008  
**IPC:** G01P 5/00  
F03D 11/00  
**Applicants:** GEN ELECTRIC  
**Inventors:** LECLAIR RYAN M  
SCHMITT THOMAS P  
HONOFF SASKIA G  
WILLIAMS CLINTON L  
SIEBERS THOMAS H  
ROGERS DONALD  
WINSLOW CHRISTOPHER J  
**Title:** Wind turbine sensors system  
**Abstract:** A wind turbine (100) and system for controlling a wind turbine using a nosecone (220) mounted metrology system is disclosed. The wind turbine comprises at least one wind

# Agenda

1. Coverage news

2. New functionality



3. New E-products

# New electronic products

## PATENTSCOPE COPPA (Corpus Of Parallel Patent Applications):

- Aligned corpus (FR,EN) for research in machine translation and linguistic data mining
- 8 million parallel segments (170 million words) derived from the PCT abstracts published from 1990 to 2010 in tmx format
- Free of charge for academic and private research institutions

# PATENTSCOPE COPPA sample

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  <tuv xml:lang="EN"><seg>method and apparatus for statistical illumination</seg></tuv>  
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# New electronic products

- PCT backfile CJK: OCR of PCT applications filed in paper and published in Japanese, Korean, Chinese from 1978 to 2011
- PCT bibliographic backfile: snapshot of bibliographic data for PCT applications published between 1978 and 2011 (XML ST36)