



# **WIPO's Engagement in Climate Change**

## Global Infrastructure

**CICG, Geneva  
12 July  
2011**

Yo Takagi  
Assistant Director General

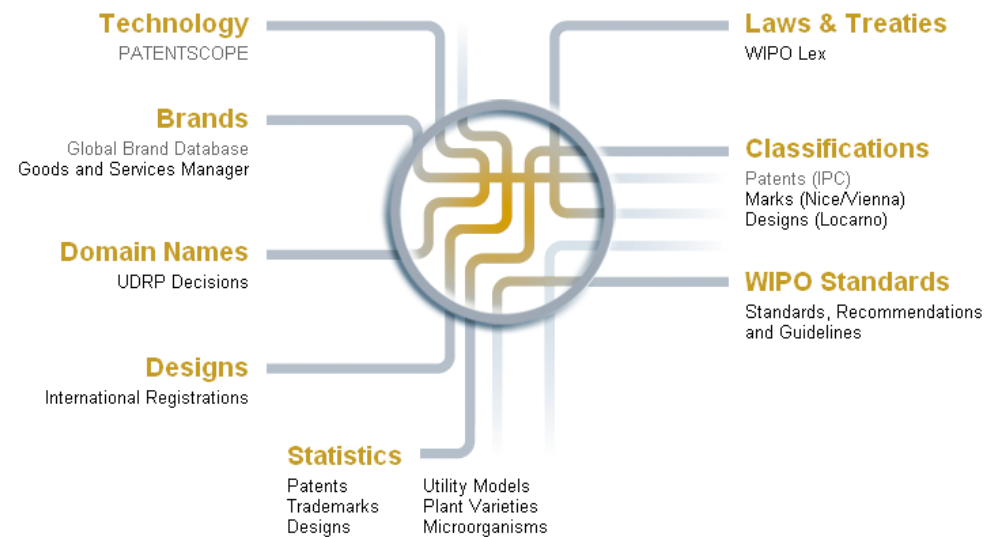
# WIPO's contribution to Climate/Green/Clean Technology Transfer

- Global Patent Database (**PatentScope**)
- User Friendly Search Tools
  - International Patent Classification (**Green Inventory**)
  - Default Search Query (**Technology Focus**)
- Patent Information Analysis (**Patent Landscape**)
- Patent Information Dissemination National Focal point (**Technology Innovation Support Center**)
- Patent Infrastructure and Capacity Building in the Developing World (**Intellectual Property Automation System**)


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### Simple Search

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Front Page | Any Field | Full Text | ID/Number | Int. Classification(IPC) | Names | Dates

Front Page Office

<input type="checkbox"/> PCT	<input type="checkbox"/> Ecuador	<input type="checkbox"/> Panama	<input type="checkbox"/> ARIPO
<input type="checkbox"/> Argentina	<input type="checkbox"/> El Salvador	<input type="checkbox"/> Peru	<input type="checkbox"/> EPO
<input type="checkbox"/> Brazil	<input type="checkbox"/> Guatemala	<input type="checkbox"/> Republic of Korea	<input type="checkbox"/> LATIPAT
<input type="checkbox"/> Chile	<input type="checkbox"/> Honduras	<input type="checkbox"/> Singapore	<input checked="" type="checkbox"/> All
<input type="checkbox"/> Colombia	<input type="checkbox"/> Israel	<input type="checkbox"/> South Africa	
<input type="checkbox"/> Costa Rica	<input type="checkbox"/> Mexico	<input type="checkbox"/> Spain	
<input type="checkbox"/> Cuba	<input type="checkbox"/> Morocco	<input type="checkbox"/> Uruguay	
<input type="checkbox"/> Dominican Rep.	<input type="checkbox"/> Nicaragua	<input type="checkbox"/> Viet Nam	

**Examples:**  
The entered value is searched against the Title, Abstract, Numbers and Names.

- ↓ "electric car"~50
- ↓ Smith or Klein
- ↓ WO2010000001
- ↓ "sol\* panel"~5
- ↓ elect?icit?
- ↓ electric^10 and car^3

Search | Reset

A close-up photograph of a green leaf, showing a detailed network of veins. The veins are a lighter shade of green and form a complex, branching pattern across the leaf's surface. The leaf itself is a vibrant green color. In the center of the image, there is a white rectangular box containing the text "IPC Green Inventory" in a bold, dark green font.

# IPC Green Inventory

# IPC Green Inventory



## INTERNATIONAL PATENT CLASSIFICATION (IPC)








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## IPC Green Inventory

1. The "IPC Green Inventory" was developed by the IPC Committee of Experts in order to facilitate searches for patent information relating to so-called Environmentally Sound Technologies (ESTs), as listed by the [United Nations Framework Convention on Climate Change \(UNFCCC\)](#).
2. ESTs are currently scattered widely across the IPC in numerous technical fields. The Inventory attempts to collect ESTs in one place, although it should be noted that the Inventory does not purport to be fully exhaustive in its coverage.
3. ESTs are presented in a hierarchical structure. Clicking on the  sign opens the hierarchy of the relevant technology. For each technology, the links in the IPC column direct the user to the corresponding place in the scheme.
4. It should be noted that each EST and its corresponding IPC place(s) do not necessarily coincide and that the EST may represent a subset of the corresponding IPC place.
5. The links in the PATENTSCOPE column allow the user to automatically search and display all international patent applications available through PATENTSCOPE which are classified in the relevant IPC place. In view of paragraph 4, above, search results may additionally include irrelevant results not relating to ESTs.
6. For IPC place ranges (e.g. Fuel cells H01M 4/86-4/98), the search result is limited to the first symbol of the range (e.g. H01M 4/86). If searching additional symbols falling in the range is desirable, this can be done either manually in PATENTSCOPE or via the IPC scheme by using the "bridge" function ("magnifying lens " button).

TOPIC	IPC	PATENTSCOPE
 ALTERNATIVE ENERGY PRODUCTION		
 Bio-fuels		
. Integrated gasification combined cycle (IGCC)	<a href="#">C10L 3/00</a> <a href="#">F02C 3/28</a>	<a href="#">C10L 3/00</a> <a href="#">F02C 3/28</a>
 Fuel cells	<a href="#">H01M 4/86-4/98, 8/00-8/24, 12/00-12/08</a>	<a href="#">H01M 4/86-4/98, 8/00-8/24, 12/00-12/08</a>
. Pyrolysis or gasification of biomass	<a href="#">C10B 53/00</a> <a href="#">C10J</a>	<a href="#">C10B 53/00</a> <a href="#">C10J</a>
 Harnessing energy from manmade waste		
 Hydro energy		
. Ocean thermal energy conversion (OTEC)	<a href="#">F03G 7/05</a>	<a href="#">F03G 7/05</a>
 Wind energy	<a href="#">F03D</a>	<a href="#">F03D</a>
 Solar energy		



**FOCUS  
ON  
TECHNOLOGY**

# Technology Focus

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## Technology Focus: Alternative Energy

This service provides you with access to published international patent applications related to selected alternative energy technologies. Relevant international applications are identified based on criteria laid out in the WIPO publication "Patent-based Technology Analysis Report: Alternative Energy Technology [\[PDF\]](#)."

### Features include:

- Access to the results of pre-defined sample searches, with results ranked by relevance, for the selected category
- Graphic view of the search results for the selected category 
- Monitoring of patent activity through RSS (Really Simple Syndication) ([More information...](#)) 

### General searches

- Search international applications related to [solar power \(materials or cells and modules\)](#)
- Search international applications related to [solar power \(systems\)](#)
- Search international applications related to [wind power](#)
- Search international applications related to [wave and tidal power](#)
- Search international applications related to [hydrogen \(production\)](#)
- Search international applications related to [hydrogen \(storage\)](#)
- Search international applications related to [fuel cells](#)
- Search international applications related to [carbon capture and storage](#)



# Patent Landscape Reports

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http://www.wipo.int/patentscope/en/programs/patent\_landscapes/pl\_existing\_reports.html

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World Intellectual Property Organization

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## Compilation of Published Patent Landscape Reports

Patent landscape reports on various topics have been published by international organizations, national intellectual property offices, non-governmental organizations and private sector entities. WIPO has compiled a list of such reports that are freely available or can be obtained upon request, either free of charge or for a fee.

Please note that this compilation is not exhaustive and that WIPO wishes to extend it. For that purpose, if you wish your report to be included or happen to know of other such reports, please contact [patent.information@wipo.int](mailto:patent.information@wipo.int)

The patent landscape reports of this compilation have been grouped according to the following categories:

- [Public Health/Life Sciences](#)
- [Climate Change/Energy](#)
- [Food and Agriculture](#)
- [Other Patent Landscape Reports/Related Links](#)

### Public Health/Life Sciences

TITLE	AUTHOR	DATE	LANGUAGE
<a href="#">Analysis of "Junk DNA" Patents</a>	Cambia	2004	English
<a href="#">Determining the Patent Status of Essential Medicines in Developing Countries</a>	MSF/WHO/UNAIDS Secretariat	2004	English

Local intranet 100%

Start WIPO Application... Inbox - Microsoft... Microsoft Word Compilation of... Microsoft PowerP... EN 10:32

# Patent Landscape Reports on Climate Change Technology

## Climate Change/Energy

TITLE	AUTHOR	DATE	LANGUAGE
<a href="#">Patent-based Technology Analysis Report – Alternative Energy Technology</a>	WIPO	2007	English
Mapeamento tecnológico do biodiesel y tecnologías correlatas sob o enfoque dos pedidos de patentes (Biofuel Patent Mapping): <a href="#">Volume I – Mundo (Worldwide)</a> <a href="#">Volume II – Brasil (Brazil)</a> <a href="#">Volume III – Estados Unidos, China e União Européia (USA, China, European Union)</a>	Brazilian National Institute of Industrial Property	2008	Portuguese
<a href="#">Carbon Nanotubes Patent Landscape</a> (Abstract available. Complete report fee-based)	Fist/Frinnov	2008	English/French
<a href="#">Technologiestatus der Österreichischen Umwelttechnologie</a> (Status of the Austrian Environmental Technology)	Austrian Institute of Technology	2009	German
<a href="#">PV Crystalline Silicon Cells Patent Landscape</a> (Photovoltaic) (Abstract available. Complete report fee-based)	Fist/Frinnov	2009	English/French
<a href="#">PV Organic and Hybrid Cells Patent Landscape</a> (Photovoltaic) (Abstract available. Complete report fee-based)	Fist/Frinnov	2009	English/French
<a href="#">PV Thin Film Cells Patent Landscape</a> (Photovoltaic)	Fist/Frinnov	2009	English/French
<a href="#">Clean Coal Technologies, Where Does Australia Stand?</a>	Griffith Hack	2009	English
<a href="#">Australian Solar Innovation: Losing our Place in the Sun</a>	Griffith Hack	2009	English
<a href="#">Who Holds the Power? Lessons from Hybrid Car Innovation for Clean Technologies</a>	Griffin Hack	2009	English
<a href="#">Grid-Scale Concentrated Solar Thermal: Thermal Energy Storage Technologies</a> (Executive summary available. Complete report fee-based)	IP Checkups	2009	English
<a href="#">Who Owns our Low Carbon Future?</a>	UK Department for International Development – DFID/Chatham House/Cambridge IP	2009	English
<a href="#">Patent Informatics Study of Energy from Waste</a>	UK IPO	2009	English
<a href="#">Patent Landscape Analysis of Recycling and Separation Technologies</a>	UK IPO	2009	English
<a href="#">Innovation Nanotechnology Patent Landscape Analysis</a>	UK IPO	2009	English
<a href="#">Producción de etanol a partir de residuos lignocelulósicos</a> (Ethanol Production from Lignocellulosic Residues)	Cuban Intellectual Property Office	2010	Spanish
<a href="#">Lithium Metal Phosphate Batteries</a> (Abstract available. Complete report fee-based)	Fist/Frinnov	2010	English/French

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## Search

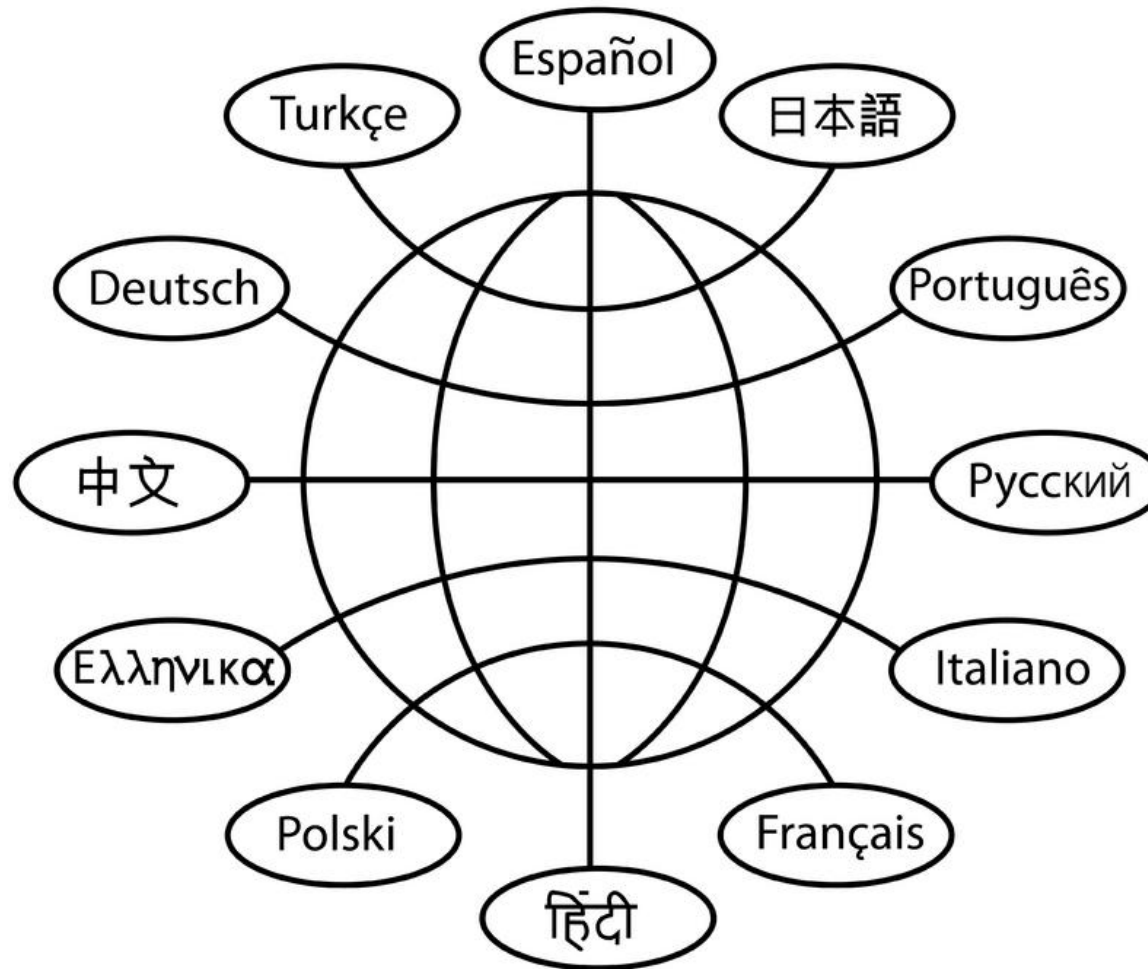
Criteria:

Collections:

- Uruguay
- Viet Nam
- ARIPO
- EPO
- LATIPAT
- All

Search

# Translation tools



# CLIR

Input search terms

Query


[\[Help\]](#)

hearing aids

» Query Language: English

» Expansion Mode: Automatic

» Precision  Recall

Submit Query 

# Results – automatic mode

Home > IP Services > PATENTSCOPE

Results 1-10 of 3,295 for Criteria: (EN\_TI:(**"hearing aids"** OR **"hearing prosthetic"**~21 OR **"auditory aids"**~21 OR **"auditory prosthetic"**~21) OR EN\_AB:(**"hearing aids"** OR **"hearing prosthetic"**~21 OR **"auditory aids"**~21 OR **"auditory prosthetic"**~21)) OR (DE\_TI:(**"Hörgeräte"** OR **"Hörhilfegeräten"**) OR DE\_AB:(**"Hörgeräte"** OR **"Hörhilfegeräten"**)) OR (ES\_TI:(**"audífonos"**) OR ES\_AB:(**"audífonos"**)) OR (FR\_TI:(**"audioprothèses"** OR **"appareils de correction auditive"** OR **"production d'appareils auditifs"**) OR FR\_AB:(**"audioprothèses"** OR **"appareils de correction auditive"** OR **"production d'appareils auditifs"**)) OR (JA\_TI:(**"穴形補聴器"**) OR JA\_AB:(**"穴形補聴器"**)) OR (KO\_TI:(**"보청"**) OR KO\_AB:(**"보청"**)) OR (PT\_TI:(**"audiofone"** OR **"auxilio de audição"**) OR PT\_AB:(**"audiofone"** OR **"auxilio de audição"**)) OR (RU\_TI:(**"слуха протезно"**~22 OR **"прослушивания протезно"**~22 OR **"слуха спидом"**~22 OR **"слуха наведения"**~22 OR **"прослушивания спидом"**~22 OR **"прослушивания наведения"**~22 OR **"слухоулучшающих протезно"**~22 OR **"слуховой протезно"**~22 OR **"слухоулучшающих спидом"**~22) OR RU\_AB:(**"слуха протезно"**~22 OR **"прослушивания протезно"**~22 OR **"слуха спидом"**~22 OR **"слуха наведения"**~22 OR **"прослушивания спидом"**~22 OR **"прослушивания наведения"**~22 OR **"слухоулучшающих протезно"**~22 OR **"слуховой протезно"**~22 OR **"слухоулучшающих спидом"**~22)) OR (ZH\_TI:(**"助听器"**) OR ZH\_AB:(**"助听器"**)) Office(s):all Language:EN Stemming:true

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Refine Search (EN\_TI:(**"hearing aids"** OR **"hearing prosthetic"**~21 OR **"auditory aids"**~21 OR **"auditory prosthetic"**~21))

## Analysis

Options  Table  Graph  Options  bar  pie

Countries		Main IPC		Main Applicant		Main Inventor		Pub Date	
Name	No	Name	No	Name	No	Name	No	Date	No
European Patent Office	1778	H04R	2355	SIEMENS AUDIOLOGISCHE TECHNIK	353	SON, YOUNG SUK	39	2001	161
		A61F	131			FISCHER EGHART	25	2002	215



# CLIR – Supervised mode


Input search terms

Query [Help]

hearing aids

>> Query Language: English

>> Expansion Mode: Supervised

>> Precision  Recall

Next >

# Next step: domain selection

Input search terms

Query Domains [AUDV,DATA,MEDI] [\[Help\]](#)

[ADMN] Admin, Business, Management & Soc Sci [AERO] Aeronautics & Aerospace Engineering [AGRI] Agriculture, Fisheries & Forestry [AUTO] Automotive & Road Vehicle Engineering [BLDG] Civil Engineering & Building Construction [CHEM] Chemical & Materials Technology [ELEC] Electrical Engineering & Electronics [ENGY] Energy, Fuels & Heat Transfer Eng [ENVR] Environmental & Safety Engineering [FOOD] Foods & Food Technology [GENR] Generalities, Language, Media & Info Sci [HOME] Home Contents & Household Maintenance [HORO] Precision Mechanics, Jewelry & Horology [MANU] Manufacturing & Materials Handling Tech [MARI] Marine Engineering [MEAS] Standards, Units, Metrology & Testing [MECH] Mechanical Engineering [METL] Metallurgy [MLI] Military Technology [MINE] Mining, Oil & Gas Extraction & Minerals [NANO] Nano Technology [PACK] Packaging & Distribution of Goods [PRINT] Printing & Paper [RAIL] Railway Engineering [SCIE] Optical Engineering [SPRT] Sports, Leisure, Tourism & Hospitality Ind [TEXT] Textile & Clothing Industries [TRAN] Transportation	Add >>  Remove <<	[AUDV] Audio, Audiovisual, Image & Video Tech [DATA] Computer Sci, Telecom & Broadcasting [MEDI] Medical Technology
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Expand Synonyms >

# Next step: synonyms selection


Input search terms

Term 1: hearing aids

Term 2: hearing

Variants Domains [AUDV,DATA,MEDI] [Help]

» Keep term untranslated when expanding query in other languages

» Less  More

auditory  acoustic  auditing

Add Variant +

Term 3: aids

Translate Selected Terms Start Over

# Editing step

[\[Help\]](#)

English  German  Spanish  French  Japanese  Korean  Portuguese  Russian   
Chinese  IPC

```
"hearing aids" OR "hearing instruments" OR  
"hearing assisted"~21 OR "hearing hearing  
devices"~21 OR "hearing prosthesis"~21 OR  
"hearing prosthetic"~21 OR "hearing prothesis"~21  
OR "auditory aids"~21 OR "auditory assisted"~21  
OR "auditory hearing devices"~21 OR "auditory
```

» **Field(s) you want to search:**

» **Acceptable distance between  
matched words:**

» **Stemming**

# Results – supervised mode

Results 1-10 of 3,795 for Criteria: (DE\_AB:(["Hörgerät"](#) OR ["Hörhilfegerät"](#) OR ["Hörhilfen"](#) OR ["Hören AIDS"](#)~21 OR ["Hörgerät AIDS"](#)~21 OR ["Hearing AIDS"](#)~21 OR ["Hören unterstützte"](#)~21 OR ["Hören Rprothese"](#)~21 OR ["Hören prothetischen"](#)~21 OR ["Hören Gehörschäden"](#)~21 OR ["Gehörs AIDS"](#)~21 OR ["Hören Hilfestellung"](#)~21 OR ["Hören Hörhilfegerät"](#)~21 OR ["besseres AIDS"](#)~21) OR EN\_AB:(["hearing aids"](#) OR ["hearing instruments"](#) OR ["hearing assisted"](#)~21 OR ["hearing hearing devices"](#)~21 OR ["hearing prosthesis"](#)~21 OR ["hearing prosthetic"](#)~21 OR ["hearing prothesis"](#)~21 OR ["auditory aids"](#)~21 OR ["auditory assisted"](#)~21 OR ["auditory hearing devices"](#)~21 OR ["auditory prosthesis"](#)~21 OR ["auditory prosthetic"](#)~21 OR ["auditory prothesis"](#)~21) OR ES\_AB:(["audifono"](#) OR ["sida audición"](#)~22 OR ["ayudas audición"](#)~22 OR ["auditiva audición"](#)~22 OR ["sida oído"](#)~22 OR ["ayudas oído"](#)~22 OR ["auditiva oído"](#)~22 OR ["sida prótesis"](#)~22 OR ["ayudas prótesis"](#)~22 OR ["auditiva prótesis"](#)~22 OR ["prótesis audición"](#)~22 OR ["protésico audición"](#)~22 OR ["sida auditiva"](#)~22 OR ["ayudas auditiva"](#)~22) OR FR\_AB:(["sida auditive"](#)~22 OR ["appareils auditifs auditive"](#)~22 OR ["plusieurs appareils auditive"](#)~22 OR ["assistée auditive"](#)~22 OR ["prothèse auditive"](#)~22 OR ["prothétique auditive"](#)~22 OR ["aides auditive"](#)~22 OR ["auxiliaires auditive"](#)~22 OR ["prosthétique auditive"](#)~22 OR ["prosthèse auditive"](#)~22 OR ["audioprothèses"](#) OR ["dispositifs auditifs auditive"](#)~22 OR ["appareils de correction auditive"](#) OR ["production d'appareils auditifs"\) OR JA\\_AB:\(\["ヒアリング 支援"\]\(#\)~22 OR \["ヒアリング アシスト"\]\(#\)~22 OR \["聴力 支援"\]\(#\)~22 OR \["聴力 アシスト"\]\(#\)~22 OR \["聴覚 支援"\]\(#\)~22 OR \["聴覚 アシスト"\]\(#\)~22 OR \["外耳 支援"\]\(#\)~22 OR \["外耳 アシスト"\]\(#\)~22 OR \["補聴器 支援"\]\(#\)~22 OR \["補聴器 アシスト"\]\(#\)~22 OR \["ヒアリング 補助"\]\(#\)~22 OR \["聴力 補助"\]\(#\)~22 OR \["聴覚 補助"\]\(#\)~22 OR \["外耳 補助"\]\(#\)~22\) OR KO\\_AB:\(\["청취 보조"\]\(#\)~22 OR \["보청"\]\(#\) OR \["청취 보철 물"\]\(#\)~22 OR \["청취 보조 물"\]\(#\)~22 OR \["청취 기"\]\(#\)~22 OR \["청취 aids"\]\(#\)~22 OR \["청력 보조"\]\(#\)~22 OR \["청력 보철 물"\]\(#\)~22 OR \["청각 보조"\]\(#\)~22 OR \["청각 보철 물"\]\(#\)~22 OR \["청취 지원"\]\(#\)~22 OR \["보청 보조"\]\(#\)~22 OR \["청취 보철"\]\(#\)~22 OR \["청력 보조 물"\]\(#\)~22\) OR PT\\_AB:\(\["prótese audição"\]\(#\)~22 OR \["sida audição"\]\(#\)~22 OR \["correção audição"\]\(#\)~22 OR \["auxílio audição"\]\(#\)~22 OR \["aids audição"\]\(#\)~22 OR \["protético audição"\]\(#\)~22 OR \["prótese auditiva"\]\(#\)~22 OR \["sida auditiva"\]\(#\)~22 OR \["correção auditiva"\]\(#\)~22 OR \["prótese audiofone"\]\(#\)~22 OR \["auxílio auditiva"\]\(#\)~22 OR \["assistidas audição"\]\(#\)~22 OR \["remota audição"\]\(#\)~22 OR \["sida audiofone"\]\(#\)~22\) OR RU\\_AB:\(\["слуха протеза"\]\(#\)~22 OR \["прослушивания протеза"\]\(#\)~22 OR \["слухоулучшающих протеза"\]\(#\)~22 OR \["слуховой протеза"\]\(#\)~22 OR \["тугоухости протеза"\]\(#\)~22 OR \["аппарат протеза"\]\(#\)~22 OR \["слуховой функции протеза"\]\(#\)~22 OR \["слуха протезно"\]\(#\)~22 OR \["прослушивания протезно"\]\(#\)~22 OR \["слуха спидом"\]\(#\)~22 OR \["слуха наведения"\]\(#\)~22 OR \["прослушивания спидом"\]\(#\)~22 OR \["прослушивания наведения"\]\(#\)~22 OR \["слухоулучшающих протезно"\]\(#\)~22\) OR ZH\\_AB:\(\["助听器"\]\(#\) OR \["听聾 音器或助听器"\]\(#\)~22 OR \["听聾 艾滋病"\]\(#\)~22 OR \["听聾 助理"\]\(#\)~22 OR \["听聾 帮助"\]\(#\)~22 OR \["听聾 辅助"\]\(#\)~22 OR \["听聾 机体"\]\(#\)~22 OR \["听聾 假体"\]\(#\)~22 OR \["听聾 爱滋病"\]\(#\)~22 OR \["听聾 监控设备及"\]\(#\)~22 OR \["听聾 aid"\]\(#\)~22 OR \["听聾 修复"\]\(#\)~22 OR \["听聾 修复体"\]\(#\)~22 OR \["听聾 协助"\]\(#\)~22\)\) AND ICF:\(\["C12N 1"\]\(#\) OR \["C12N 15"\]\(#\) OR \["C12N 7"\]\(#\) OR \["C12N 9"\]\(#\) OR \["A61"\]\(#\) OR \["B82"\]\(#\) OR \["C12N OR C12P"\]\(#\) OR \["G03"\]\(#\) OR \["G06"\]\(#\) OR \["G08"\]\(#\) OR \["G09C"\]\(#\) OR \["G09F"\]\(#\) OR \["G09G"\]\(#\) OR \["G10K"\]\(#\) OR \["G10L"\]\(#\) OR \["G11"\]\(#\) OR \["H04"\\) Office\\(s\\):all Language:EN Stemming: true\]\(#\)](#)

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Refine Search (["DE\\_AB:\(\"Hörgerät\" OR \"Hörhilfegerät\" OR \"Hörhilfen\" OR \"Hören](#)



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Front Page

Office

- |   |                                      |  |   |
|---|--------------------------------------|--|---|
| <input type="checkbox"/> PCT            | <input type="checkbox"/> Ecuador     | <input type="checkbox"/> Panama            | <input type="checkbox"/> ARIPO          |
| <input type="checkbox"/> Argentina      | <input type="checkbox"/> El Salvador | <input type="checkbox"/> Peru              | <input type="checkbox"/> EPO            |
| <input type="checkbox"/> Brazil         | <input type="checkbox"/> Guatemala   | <input type="checkbox"/> Republic of Korea | <input type="checkbox"/> LATIPAT        |
| <input type="checkbox"/> Chile          | <input type="checkbox"/> Honduras    | <input type="checkbox"/> Singapore         | <input checked="" type="checkbox"/> All |
| <input type="checkbox"/> Colombia       | <input type="checkbox"/> Israel      | <input type="checkbox"/> South Africa      |   |
| <input type="checkbox"/> Costa Rica     | <input type="checkbox"/> Mexico      | <input type="checkbox"/> Spain             |   |
| <input type="checkbox"/> Cuba           | <input type="checkbox"/> Morocco     | <input type="checkbox"/> Uruguay           |   |
| <input type="checkbox"/> Dominican Rep. | <input type="checkbox"/> Nicaragua   | <input type="checkbox"/> Viet Nam          |   |

### Examples:

The entered value is searched against the Title, Abstract, Numbers and Names.

- ⚡ "electric car"~50
- ⚡ Smith or Klein
- ⚡ WO2010000001
- ⚡ "sol\* panel"~5
- ⚡ elect?icit?
- ⚡ electric^10 and car^3

[Search](#) | [Reset](#)

# Language pairs

**Translate**

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Source text:

Language pair:

Domain:

- English->French
- French->English
- Korean->English[not yet]
- Japanese->English[not yet]
- English->Chinese
- Chinese->English

# Domains

[ADMN] Admin, Business, Management & Soc Sci	[MARI] Marine Engineering
[AERO] Aeronautics & Aerospace Engineering	[MEAS] Standards, Units, Metrology & Testing
[AGRI] Agriculture, Fisheries & Forestry	[MECH] Mechanical Engineering
[AUDV] Audio, Audiovisual, Image & Video Tech	[MEDI] Medical Technology
[AUTO] Automotive & Road Vehicle Engineering	[METL] Metallurgy
[BLDG] Civil Engineering & Building Construction	[MILI] Military Technology
[CHEM] Chemical & Materials Technology	[MINE] Mining, Oil & Gas Extraction & Minerals
[DATA] Computer Sci, Telecom & Broadcasting	[NANO] Nano Technology
[ELEC] Electrical Engineering & Electronics	[PACK] Packaging & Distribution of Goods
[ENGY] Energy, Fuels & Heat Transfer Eng	[PRNT] Printing & Paper
[ENVR] Environmental & Safety Engineering	[RAIL] Railway Engineering
[FOOD] Foods & Food Technology	[SCIE] Optical Engineering
[GENR] Generalities, Language, Media & Info Sci	[SPRT] Sports, Leisure, Tourism & Hospitality
[HOME] Home Contents & Household Maintenance	[TEXT] Textile & Clothing Industries
[HORO] Precision Mechanics, Jewelry & Horology	[TRAN] Transportation
[MANU] Manufacturing & Materials Handling Tech	



# Translation

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## Translate

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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: ...

Domain: [automatic detection]

Translate

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Source text:

Language pair:

Domain:

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- *Please hover your mouse over parallel segments of text*
- *Click to view other proposals*
- *Select words or phrases on the right to access other translation proposals*

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.

# Translation segments

<p>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 , <b>stiffening elements formed by ridges</b> (8) directed, in a regular manner , both in a radial direction and in a concentric direction , relative to the axis of the wheel</p>	<p>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, <b>des éléments de rigidification constitués par des nervures</b>(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</p>
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↓ Choose among proposals, or edit the text

stiffening elements formed by ribs

- stiffening elements formed by ribs
- stiffening elements **consisting of** ribs
- stiffening elements formed by **the** ribs
- stiffening elements **constituted** by ribs
- stiffening elements **are** formed by ribs
- stiffening elements formed by **ridges**
- stiffening **means consisting of** ribs
- stiffening elements **made** by ribs
- stiffening **means** formed by ribs
- stiffening elements **and consisting of** ribs
- of** stiffening elements formed by ribs
- stiffening elements **constituted by the** ribs
- of** stiffening elements **consisting of** ribs
- elements consisting of** ribs
- stiffening elements **consist of** ribs
- stiffening **means constituted** by ribs
- stiffening elements **are formed by the** ribs
- stiffening elements **comprised** by ribs
- elements** formed by ribs
- stiffening elements **consisting of the** ribs
- of reinforcing elements consisting of** ribs

# Editing

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 ridges (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

↓ Choose among proposals, or edit the text

mounted on a movable jaw and which can be brought into contact with the disk by means

Ok

mounted on a movable jaw and which can be brought into contact with the disk by the control means

mounted on a movable jaw and can be brought into contact with the disk by the control means

↑

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Language pair: French->English

Domain: Mechanical Engineering

Translate

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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 actuating 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 ridges** (8) directed, in a regular manner, both in a radial direction and in a concentric direction, relative to the axis of the wheel

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Edit translation

Choose among proposals, or edit the text

stiffening	Ok
stiffening	
stiffening	
rigidifying	
stiffener	
reinforcement	
reinforcing	
rigidifying	
rigidification	
rigidification	
strengthening	
stiffener	
reinforcing	
rigidizer	
reinforcement	

# Post-editing – exporting

## Translate

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Language pair:

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