

THE PATENTSCOPE USER'S GUIDE

Updated May 2020

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INTRODUCTION

WHAT IS THE PATENTSCOPE SEARCH SYSTEM?

You're a patent attorney and need to find a specific patent document...

You're an inventor and want to see whether your latest invention has already been patented...

You're a researcher and are interested in seeing which technologies have been developed in your field...

You're an entrepreneur and want to find out who your competitors are and what they're up to...

The PATENTSCOPE search system just might be the right tool for you!

The PATENTSCOPE search system is the **FREE OF CHARGE** patent search system provided by the World Intellectual Property Organization (WIPO) that allows you to access millions of patent documents.

This User's Guide will help you get to know the PATENTSCOPE search system and learn how to get the most out of its powerful search and analysis features.

ABOUT THIS GUIDE

The PATENTSCOPE search system is constantly improving to provide new features and new content to its users. In fact, from the time the writing of this guide started to the time it was completed, a few things have changed on the interface. To keep up to date on the latest developments and changes to the PATENTSCOPE search system, take a look at: <https://www.wipo.int/patentscope/en/news/>

To help readability, a few conventions were used in this guide:

- **Web Sites urls** and **email addresses** are in blue in Courier; and
- to refer to *something that you see on the interface* italics was used;



- tips are indicated with

Note: Screenshots in this guide reflect what the interface was like in February 2020; a few significant changes took place during the writing of this guide.

WHAT IS THE DATA COVERAGE?


PATENTSCOPE gives you access to millions of patent documents, namely:

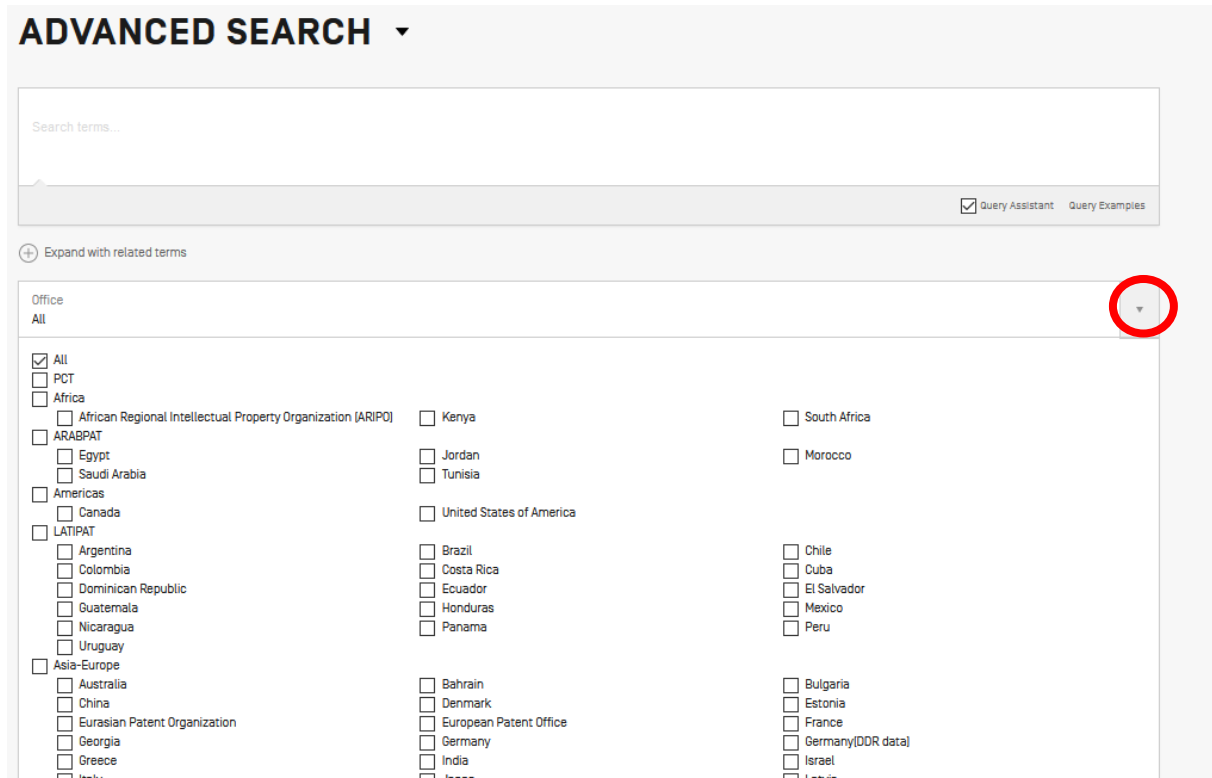
- International Patent Applications filed under the PCT (Patent Cooperation Treaty)
- Regional and national patent collections from numerous participating countries and organizations, including:

→	ARIPO (African Regional Intellectual Property Organization)	Lao People's Democratic Republic
→	Argentina	Latvia
→	Australia	Lithuania
→	Bahrain	Malaysia
→	Brazil	Mexico
→	Brunei Darussalam	Morocco
→	Bulgaria	Nicaragua
→	Cambodia	Panama
→	Canada	Peru
→	Chile	Philippines
→	China	Portugal
→	Colombia	Republic of Korea
→	Costa Rica	Romania
→	Cuba	Russian Federation
→	Denmark	Russian Federation (USSR data)
→	Dominican Republic	Saudi Arabia
→	Ecuador	Singapore
→	Egypt	South Africa
→	El Salvador	Spain
→	Estonia	Thailand
→	EAPO (Eurasian Patent Organization)	Tunisia
→	EPO (European Patent Office)	United Arab Emirates
→	France	United Kingdom
→	Georgia	United States of America
→	Germany	Uruguay
→	Germany (DDR data)	Vietnam
→	Greece	
→	Guatemala	
→	Honduras	
→	India	
→	Indonesia	
→	Israel	
→	Italy	
→	Japan	
→	Jordan	
→	Kenya	

Those countries share their national/regional data with WIPO; they are not the PCT applications entering into national phase into those countries. National phase information is available here:

<https://patentscope.wipo.int/search/en/nationalphase.jsf>

Please check our website, as we add new collections on a regular basis. The collections available are listed in the *Advanced Search/Field Combination* page; click the arrow  sign next to *Offices* to see the list.



ADVANCED SEARCH ▾

Search terms...

Query Assistant [Query Examples](#)

+ Expand with related terms

Office
All ▾

- All
- PCT
- Africa
 - African Regional Intellectual Property Organization (ARIPO)
- ARABPAT
 - Egypt
 - Saudi Arabia
- Americas
 - Canada
- LATIPAT
 - Argentina
 - Colombia
 - Dominican Republic
 - Guatemala
 - Nicaragua
 - Uruguay
- Asia-Europe
 - Australia
 - China
 - Eurasian Patent Organization
 - Georgia
 - Greece
 - Italv
- Kenya
- Jordan
- Tunisia
- United States of America
- Brazil
- Costa Rica
- Ecuador
- Honduras
- Panama
- Bahrain
- Denmark
- European Patent Office
- Germany
- India
- Japan
- South Africa
- Morocco
- Chile
- Cuba
- El Salvador
- Mexico
- Peru
- Bulgaria
- Estonia
- France
- Germany(DDR data)
- Israel
- Latvia

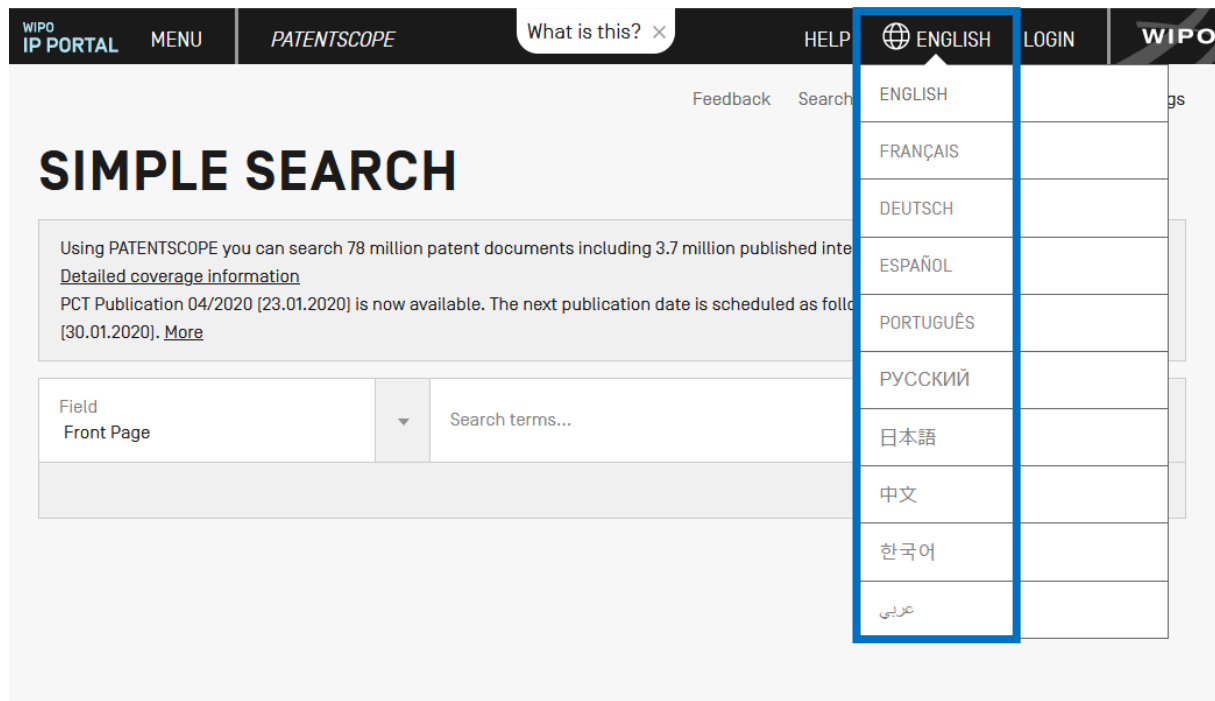
UP-TO-DATE & DETAILED DATA COVERAGE

For the most up-to-date information on data coverage, please go to the *Help* menu, *More*, *PATENTSCOPE Help*, *Data coverage national collections* at:
https://patentscope.wipo.int/search/en/help/data_coverage.jsf

SEARCH INTERFACES

DIFFERENT LANGUAGES

Interface languages



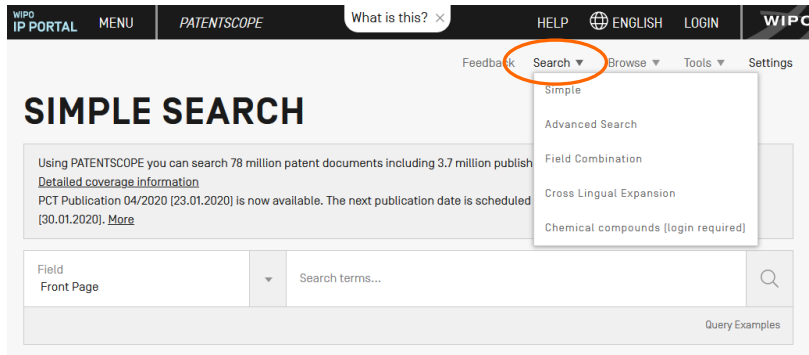
The search interface is available in 10 languages that can be selected in the navigation bar (black bar on the top of the interface).

Search languages

You can search in all the filing languages of the documents contained in PATENTSCOPE, such as Arabic, Bulgarian, Cambodian, Chinese, Danish, English, Estonian, French, German, Greek, Hebrew, Italian, Japanese, Korean, Laotian, Portuguese, Romanian, Russian, Spanish, Thai, Vietnamese, etc.

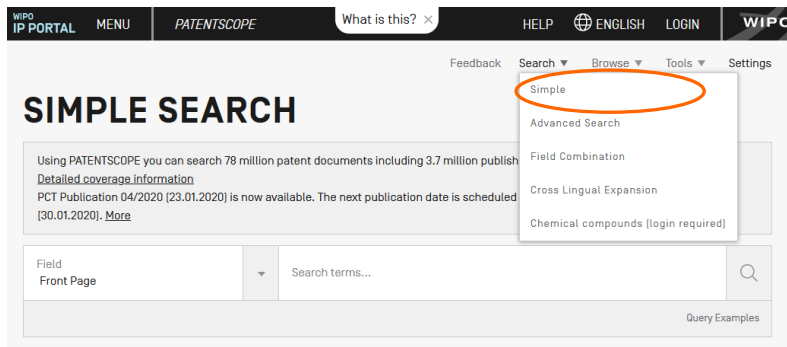
SEARCH INTERFACES

There are 5 ways to conduct a search using PATENTSCOPE Search service. Those options can be selected from the *Search* menu as indicated below.

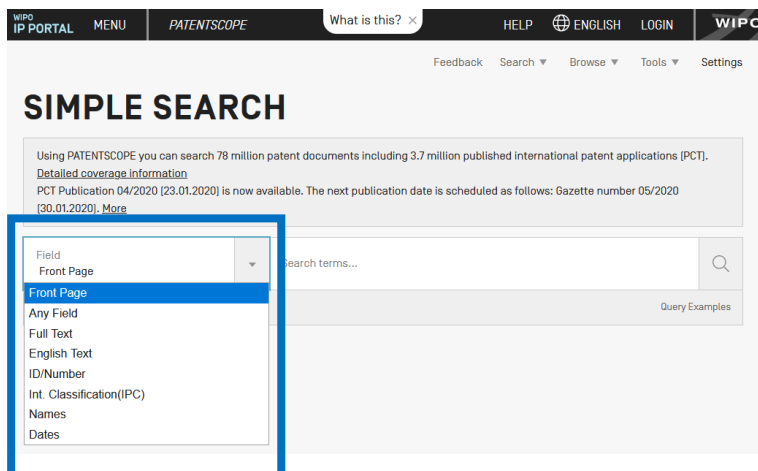


1. Simple search

The *Simple Search* interface is the default interface.



It offers 8 predefined search fields:



1. *Front page*: the search criteria you entered in this field will be searched in the front page of the document (title, abstract, names and numbers).
2. *Any field*: the search criteria you entered in this field will be searched in any fields of the document.
3. *Full-text*: enter your query in this field if you are interested in full-text.
4. *English text*: the search criteria you entered in this field will be searched in texts in English.
5. *ID/Number*: enter publication number, filing number, etc.
6. *IPC*: enter any International Patent Classification code.
7. *Names*: enter your search in this field to look for the name of an inventor, an applicant, a company, etc.
8. *Dates*: enter any date in this field such as filing date, publication date, etc.

You can use the *Simple Search* interface to search for:

- a specific number: a reference to patent document in the press, in a trial, etc.
- an individual, an inventor, an applicant, etc.
- a company whether it is for personal interest, for merging and/or acquisition purposes or to keep track of the work of a competitor
- an IPC code
- a specific date
- a subject matter expressed with simple keywords, a concept that is very specific in order to have a limited number of results



Use the *Browse by week* option to see all international applications published during a given week).

Click the *Query Examples* to be provided with search examples. If you click on those examples, they will automatically appear in the search box. They give you good examples of the kind of searches that can be performed in the *Simple Search* interface:


Using PATENTSCOPE you can search 76 million patent documents including 3.6 million published international patent applications (PCT). Detailed coverage information can be found here
PCT Publication 37/2019 [12.09.2019] is now available. The next publication date is scheduled as follows: Gazette number 38/2019 [19.09.2019]. [More](#)

Field: Front Page | Search terms... | Query Examples

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

- "electric car"~50
- Smith or Klein
- WO201000001
- EP2012001709
- "sol* panel"~5
- elect?icit?
- electric^10 and car^3

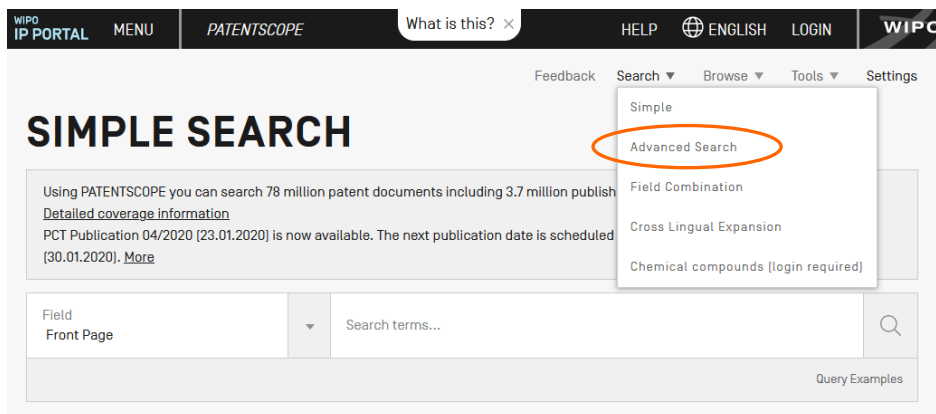
To use the *Simple Search* interface:

1. Select one of the 8 available search fields from the drop-down menu;
2. Enter your search terms into the selected field;
3. Click the  button



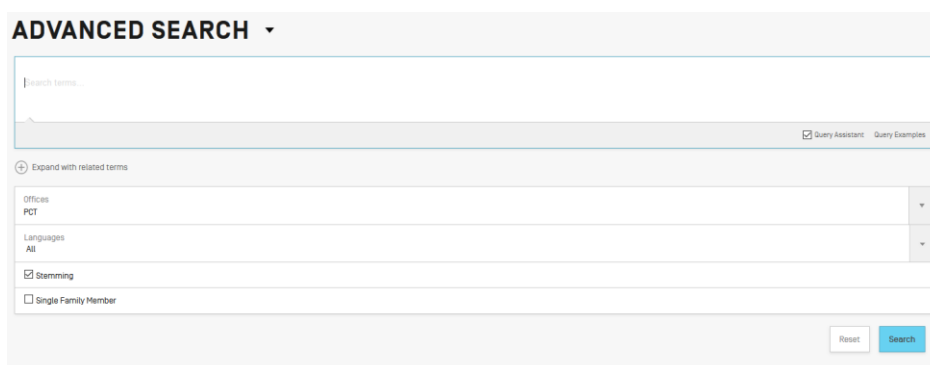
To look for a specific patent document number, use the *ID/Number* field
To look for any information related to a name (inventor, agent, etc.), use the *Names* field.

2. Advanced Search



The screenshot shows the WIPO PATENTSCOPE Simple Search interface. At the top, there are navigation links for 'WIPO IP PORTAL', 'MENU', 'PATENTSCOPE', 'What is this?', 'HELP', 'ENGLISH', 'LOGIN', and 'WIPO'. Below these are 'Feedback', 'Search', 'Browse', 'Tools', and 'Settings'. The 'Search' dropdown menu is open, showing options: 'Simple', 'Advanced Search' (circled in orange), 'Field Combination', 'Cross Lingual Expansion', and 'Chemical compounds [login required]'. The main search area has a 'Field' dropdown set to 'Front Page' and a 'Search terms...' input field with a magnifying glass icon. A 'Query Examples' link is at the bottom right.

The *Advanced Search* is the PATENTSCOPE expert search interface that can be used to create complex search queries using an unlimited number of terms.



The screenshot shows the WIPO PATENTSCOPE Advanced Search interface. It features a search input field with a magnifying glass icon. Below the input field are several search criteria: 'Offices' (set to 'PCT'), 'Languages' (set to 'All'), 'Stemming' (checked), and 'Single Family Member' (unchecked). There are 'Reset' and 'Search' buttons at the bottom right.

The PATENTSCOPE search service offers a wide range of operators that can be used to combine search terms, including Boolean operators, proximity operators, and range operators. Using these operators will allow you to customize your results. You can also use wildcard operators to search for variants of terms based on a common stem, or root.

For more information about operators available in the PATENTSCOPE search service, take a look at: <https://patentscope.wipo.int/search/en/help/querySyntaxHelp.jsf>

The *Advanced Search* interface uses field codes to define the fields in which search terms must be found.

More information about field codes can be found at: <https://patentscope.wipo.int/search/en/help/fieldHelp.jsf>

Some examples of the use of the *Advanced Search*:

1. Searching for inventions made by Steve Jobs published during the period from 2007 to 2009 comprising the keyword “touch” in the description.

```
IN:(Jobs) AND DP:[2007 TO 2009] AND EN_DE:(touch)
```

This search query uses field codes, a Boolean operator, and a range operator.

The field codes are IN for inventor, DP for publication date, and EN_DE for English description.

The Boolean operator AND is used to ensure that all search terms are included in the search results (i.e. that the results are for Jobs as inventor, within the given publication date range, and using the word “touch”).

The range operator TO is used to define a range of publication date values.

2. Searching for inventions related to cutting tree trunks:

```
cutting AND trunk
```

This search query will retrieve over 10,000 results, many of which are not related to cutting tree trunks.

```
cutting NEAR5 trunk
```

This search query retrieves a few hundred results; most of which are related to the wood industry. It uses a proximity operator NEAR to ensure that the two terms are close to each other in your results and specifies that they must be within 5 words of each other by defining the value as NEAR5. Similarly, you could specify that the terms must be within any other number of words of each other, e.g. NEAR4, NEAR100.

3. Searching for surgical instruments that are referred to before the paragraph “Field of the invention”:

```
“Field of the invention” BEFORE100 “surgical instruments”
```

The operator BEFORE allows users to define the part of the description the search should be carried out: only documents containing surgical instruments positioned 100 words after “Field of the invention” will be retrieved.

To use the *Advanced Search* interface:

The screenshot shows the 'ADVANCED SEARCH' interface. At the top, there is a search input field labeled 'Search terms...' with a '1' next to it. Below this is a bar with a checked 'Query Assistant' box and a 'Query Examples' link. A plus icon and the text 'Expand with related terms' are below the bar. The main search area contains four rows of filters: 'Offices' with 'All' selected and a '2' next to it; 'Languages' with 'English' selected and a '3' next to it; a checked 'Stemming' box with a '4' next to it; and an unchecked 'Single Family Member' box with a '5' next to it. At the bottom right, there are 'Reset' and 'Search' buttons.

- 1 Enter keywords/Boolean expression/field codes etc. Please read the Annex section of this guide or go to the *Help* menu on the search interface for a complete list of Boolean expressions and *Fields Definition*;
- 2 Select the collection/s you are interested in using the arrow;
- 3 Select the language in which you would like to perform the search using the arrow;
- 4 *Stemming* is on by default. It is a process that removes ending in order to find keywords with common roots such as electric, electricity, electrical. The stemmer is related to the language of the search, in this example, it is therefore the English stemmer.
- 5 Tick this box if you would like to have family information in your result list. Please read the section in this Guide about families in PATENTSCOPE.

Expand with related terms

This feature allows you to expand your query with synonyms that are automatically provided by PATENTSCOPE

Enter your query in the query box and click the *Expand with related terms* button

ADVANCED SEARCH ▾

Query Assistant [Query Examples](#)

Expand with related terms

Offices All	▾
Languages English	▾
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	

Your new query is displayed just below:

Query Assistant [Query Examples](#)

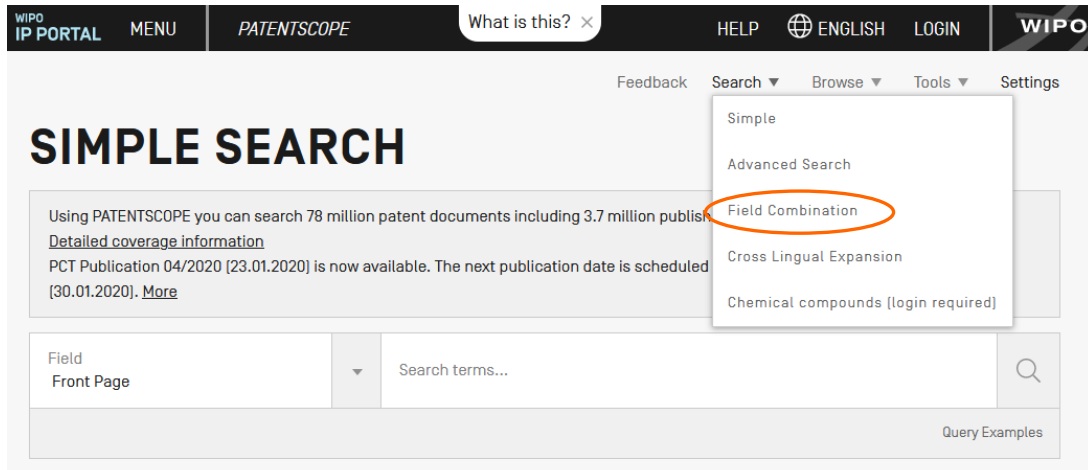
Expanded query:
{ ("electric vehicle" OR "electric car") } OR (electric AND (motor OR car))

The click the *Expanded Search* button to run your search.



Click the *Query Examples* to be provided with search examples. If you click on those examples, they will automatically appear in the search box.

3. Field Combination



The *Field Combination* interface can be used to structure a more targeted search using specific search criteria in any search fields (e.g. title, abstract, description, etc.) can be performed using this interface.

FIELD COMBINATION ▾

	Field Front Page	▼	Value	?
Operator AND	Field WIPO Publication Numbe	▼	Value	?
Operator AND	Field Application Number	▼	Value	?
Operator AND	Field Publication Date	▼	Value	?
Operator AND	Field English Title	▼	Value	?
Operator AND	Field Abstract	▼	Is Empty: N/A	▼
Operator AND	Field Licensing availability	▼	<input type="checkbox"/>	

Add another search field Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	

The *Field Combination Search*, a list of preset search fields that can be combined according to the users' needs, should be used to search together different concepts such as:

- a date and an inventor
- an inventor and a company,
- etc.

Any combination of the preset search fields available in the *Field Combination Search* is possible.

Some examples of the use of the *Field Combination*:

- Searching for the inventions filed by Shimano in 2017. In the drop-down box, select the field *Applicant Name* and enter **Shimano**; select *AND* and the field *Publication date* and enter **2017**

	Operator	Field	Value
		Front Page	
Operator AND	▼	Applicant Name	Shimano
Operator AND	▼	Publication Date	2017
Operator AND	▼	Publication Date	
Operator AND	▼	Abstract	
Operator AND	▼		Is Empty: ...

- Searching for applications containing microchip with licensing availability. In the drop-down box, select *English Claims* and enter **microchip**, then tick the *Licensing availability* box (the last row in the *Field Combination* interface).

Operator AND	▼	English Claims	microchip
Operator AND	▼	Abstract	Is Empty: N/A
Operator AND	▼	Licensing availability	<input checked="" type="checkbox"/>

- Searching for missing information using the empty field option: for example, you can search applications without any IPC code. In the row before last, select the *IPC* in the drop-down box and tick *yes* next to empty.

Operator AND	▼	Field International Class	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	N/A +	▼
				Yes	
				No	

To use the Field Combination interface:

- 1 Select the field/s of interest using the arrow of the drop-down menu
- 2 Use the *AND/OR* boxes to add or include fields
- 3 If you would like to add more fields or remove one or more fields, please click the + or – signs:

[+] Add another search field
 [-] Reset search fields

- 4 Select the collection/s you are interested in the drop-down menu:

Offices
All 

- 5 Select the language in which you would like to perform the search in the drop-down menu:

Languages
English 

- 6 Stemming is on by default. It is a process that removing ending in order to find keywords with common roots such as electric, electricity, electrical. The stemmer is related to the language of the search, in this example, it is therefore the English stemmer:

Stemming

- 7 Tick this box if you would like to have family information in your result list. Please read the section in this Guide about the families:

Single Family Member

At the bottom of the search page, the number of results are indicated, allowing therefor to amend you query is necessary :

		Field Front Page	▼	Value	?
Operator AND	▼	Field Chinese Description	▼	Value 自行车	?
Operator AND	▼	Field Application Number	▼	Value	?
Operator AND	▼	Field Publication Date	▼	value	?
Operator AND	▼	Field English Title	▼	Value	?
Operator AND	▼	Field Abstract	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

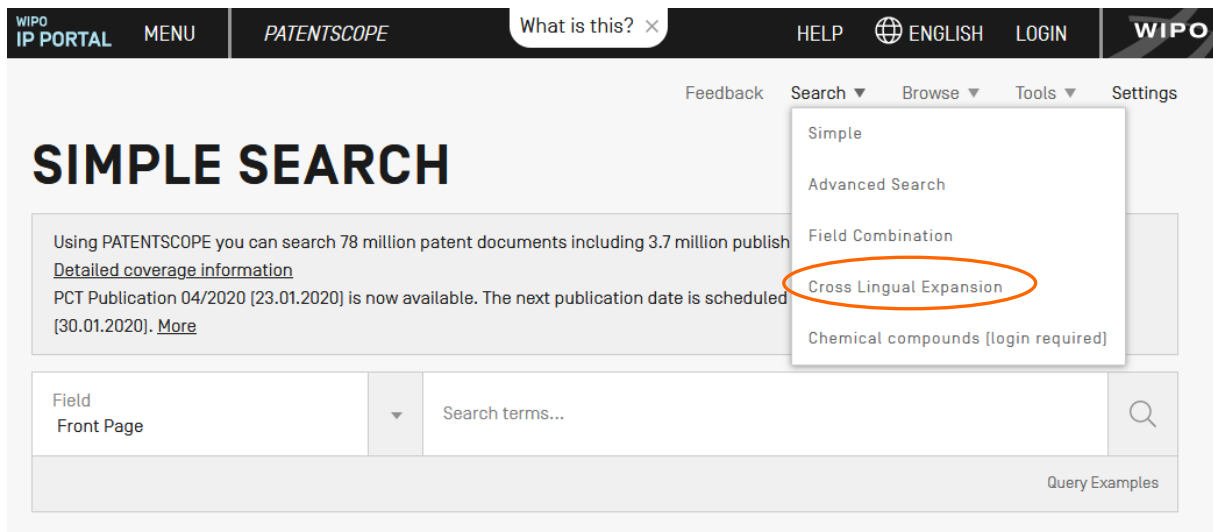
Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	

59 results



From the result page, to go back to Field Combination with your search criterias, go to the *Search* menu and select *Field Combination*.

4. CLIR Cross-Lingual Information Retrieval



The screenshot shows the WIPO IP PORTAL PATENTSCOPE interface. The main heading is 'SIMPLE SEARCH'. Below it, there is a text block stating: 'Using PATENTSCOPE you can search 78 million patent documents including 3.7 million published'. A link for 'Detailed coverage information' is provided. Below that, it says 'PCT Publication 04/2020 [23.01.2020] is now available. The next publication date is scheduled for [30.01.2020]. [More](#)'. The search interface includes a 'Field' dropdown set to 'Front Page', a search box with 'Search terms...', and a search icon. A 'Query Examples' link is at the bottom right. The 'Search' dropdown menu is open, showing options: 'Simple', 'Advanced Search', 'Field Combination', 'Cross Lingual Expansion' (circled in red), and 'Chemical compounds [login required]'. The top navigation bar includes 'WIPO IP PORTAL', 'MENU', 'PATENTSCOPE', 'What is this? x', 'HELP', 'ENGLISH', 'LOGIN', and 'WIPO'. Secondary navigation includes 'Feedback', 'Search', 'Browse', 'Tools', and 'Settings'.

CLIR stands for Cross Lingual Information Retrieval. This tool allows you to expand your search by including patent documents in your result list that were disclosed in a foreign languages: for example, you enter one keyword in English, your result list will include that keyword in English and its synonyms as well as the translation of both the keyword and the synonyms into 13 languages. The tool first finds synonym of your query and then translate everything into 13 languages. The following languages are available:

- Chinese
- Danish
- Dutch
- English
- French
- German
- Italian
- Japanese
- Korean
- Polish
- Portuguese
- Russian
- Spanish
- Swedish

Just enter one or more terms in one of those languages in the search box and the system will suggest variants and translate the term(s), thus allowing you to search patent documents disclosed in all of these languages.

CROSS LINGUAL EXPANSION ▾

Search terms... * 1		
Query Language* English 2	Expansion Mode: 3 <input checked="" type="radio"/> Automatic <input type="radio"/> Supervised Use the Supervised mode to select the technical domains, the relevant variants, the languages to translate your query to and the fields to search by	Precision level 4 High Influences the precision of the suggested variants. Highest level considers only the most relevant ones (less suggested variants) Lowest level considers the less relevant as well (more suggested variants)
The language of your query		5 Search

Step 1: Enter your query

1. Enter the search query in the search box. Up to 5 keywords can be entered and “...” are supported.
2. Select the language of your query.
3. Select the *Expansion mode*:
 - a. *Supervised* will allow you to select the technical domain associated with your query and the variants relevant to your query.
 - b. *Automatic* will generate the results immediately without any further user input.
4. Select the level of precision. If you favor precision, an expanded query will be built in order to retrieve only the most relevant results at the risk of missing some results. If you favor recall, an expanded query will be built in order to retrieve more results at the possible expense of accuracy.

Precision is defined as the proportion of relevant documents in the set of all documents returned by a search query. Precision is a measure of exactness.

Recall is defined as the number of relevant documents retrieved as fraction of all relevant documents. Recall is a measure of completeness.

5. Click the *Search* (automatic mode) or *Select Domains* (supervised mode) button.

Automatic mode: 1 step

After entering your query, select the query language, the expansion mode, define the level of precision and click the *search* button:

Search terms... * biodegradable cup		
Query Language English	Expansion Mode: <input checked="" type="radio"/> Automatic <input type="radio"/> Supervised	Precision level High
The language of your query	Use the Supervised mode to select the technical domains, the relevant variants, the languages to translate your query to and the fields to search by	Influences the precision of the suggested variants Highest level considers only the most relevant ones (less suggested variants) Lowest level considers the less relevant as well (more suggested variants)
Search		

The result list will be displayed with the new query containing synonyms and translations of your query:

FULL QUERY

[Close](#)

[Edit](#)

(EN_Tt:(("biodegradable cup"~21 OR "biodegradable tank"~21) OR EN_AB:(("biodegradable cup"~21 OR "biodegradable tank"~21)) OR (DA_Tt:(("biologisk nedbrydelige tank"~22 OR "biologisk nedbrydelige bæger"~22 OR "bionedbrydelige tank"~22 OR "bionedbrydelige bæger"~22 OR "biologisk nedbrydelige hule"~22 OR "biologisk nedbrydelige kop"~22 OR "nedbrydeligt materiale tank"~22 OR "biologisk nedbrydelige baegeformede"~22 OR "nedbrydeligt materiale baege"~22) OR DA_AB:(("biologisk nedbrydelige tank"~22 OR "biologisk nedbrydelige baege"~22 OR "bionedbrydelige tank"~22 OR "bionedbrydelige baege"~22 OR "biologisk nedbrydelige hule"~22 OR "biologisk nedbrydelige kop"~22 OR "nedbrydeligt materiale tank"~22 OR "biologisk nedbrydelige baegeformede"~22 OR "nedbrydeligt materiale baege"~22)) OR (DE_Tt:(("biologisch abbaubaren Tank"~22 OR "biologisch abbaubaren Schutzkappe"~22 OR "biologisch abbaubaren Becher"~22 OR "biologisch abbaubaren gewoelbter"~22 OR "biologisch abbaubaren Pfanne"~22 OR "biologisch abbaubaren desselben"~22 OR "biologisch abbaubaren Zufuhrbecher"~22 OR "biologisch abbaubaren Tasse"~22 OR "bioabbaubare Tank"~22) OR DE_AB:(("biologisch abbaubaren Tank"~22 OR "biologisch abbaubaren Schutzkappe"~22 OR "biologisch abbaubaren Becher"~22 OR "biologisch abbaubaren gewoelbter"~22 OR "biologisch abbaubaren Pfanne"~22 OR "biologisch abbaubaren desselben"~22 OR "biologisch abbaubaren Zufuhrbecher"~22 OR "biologisch abbaubaren Tasse"~22 OR "bioabbaubare Tank"~22)) OR (ES_Tt:(("tanque biodegradables"~22 OR "vaso biodegradables"~22 OR "cubeta biodegradables"~22 OR "depósito biodegradables"~22 OR "taza biodegradables"~22 OR "cup biodegradables"~22 OR "copa biodegradables"~22 OR "bote biodegradables"~22 OR "cuba biodegradables"~22) OR ES_AB:(("tanque biodegradables"~22 OR "vaso biodegradables"~22 OR "cubeta biodegradables"~22 OR "depósito biodegradables"~22 OR "taza biodegradables"~22 OR "cup biodegradables"~22 OR "copa biodegradables"~22 OR "bote biodegradables"~22 OR "cuba biodegradables"~22)) OR (FR_Tt:(("réservoir biodégradable"~22 OR "gobelet biodégradable"~22 OR "citerne biodégradable"~22 OR "coupelle biodégradable"~22 OR "cuve biodégradable"~22 OR "godet biodégradable"~22 OR "bassin biodégradable"~22 OR "tasse biodégradable"~22 OR "cup biodégradable"~22) OR FR_AB:(("réservoir biodégradable"~22 OR "gobelet biodégradable"~22 OR "citerne biodégradable"~22 OR "coupelle biodégradable"~22 OR "cuve biodégradable"~22 OR "godet biodégradable"~22 OR "bassin biodégradable"~22 OR "tasse biodégradable"~22 OR "cup biodégradable"~22)) OR (IT_Tt:(("biodegradabili serbatoio"~22 OR "biodegradabili vasca"~22 OR "biodegradabili tazza"~22 OR "biodegradabili bicchiere"~22 OR "biodegradabili bicchieri"~22 OR "biodegradabili scodellino"~22 OR "biodegradabili organi a calotta"~22 OR "biodegradabili serbatoio"~22 OR "biodegradabili cisterna"~22) OR IT_AB:(("biodegradabili serbatoio"~22 OR "biodegradabili vasca"~22 OR "biodegradabili tazza"~22 OR "biodegradabili bicchiere"~22 OR "biodegradabili bicchieri"~22 OR "biodegradabili scodellino"~22 OR "biodegradabili organi a calotta"~22 OR "biodegradabili serbatoio"~22 OR "biodegradabili cisterna"~22)) OR (JA_Tt:(("生分解 タンク"~22 OR "生分解 カップ"~22 OR "分解可能 タンク"~22 OR "分解性 タンク"~22 OR "分解可能 カップ"~22 OR "生分解 コップ"~22 OR "分解性 カップ"~22 OR "生物分解 タンク"~22 OR "生崩壊性 タンク"~22) OR JA_AB:(("生分解 タンク"~22 OR "生分解 カップ"~22 OR "分解可能 タンク"~22 OR "分解性 タンク"~22 OR "分解可能 カップ"~22 OR "生分解 コップ"~22 OR "分解性 カップ"~22 OR "生物分解 タンク"~22 OR "生崩壊性 タンク"~22)) OR (KO_Tt:(("컵 생분해성"~22 OR "탱크 생분해성"~22 OR "저장탱크 생분해성"~22 OR "탱크용 생분해성"~22 OR "위생팩을 생분해성"~22 OR "원료 생분해성"~22 OR "조립식 생분해성"~22 OR "통기관형 생분해성"~22) OR KO_AB:(("컵 생분해성"~22 OR "탱크 생분해성"~22 OR "저장탱크 생분해성"~22 OR "탱크용 생분해성"~22 OR "위생팩을 생분해성"~22 OR "원료 생분해성"~22 OR "조립식 생분해성"~22 OR "통기관형 생분해성"~22)) OR (NL_Tt:(("biologisch afbreekbaar kopvormige"~22 OR "biologisch afbreekbaar cup"~22 OR "biodegradeerbare kopvormige"~22 OR "biodegradeerbare cup"~22 OR "biologisch afbreekbaar beker"~22 OR "biodegradeerbare beker"~22 OR "biologisch afbreekbaar tank"~22 OR "biologisch afbreekbaar reservoires"~22 OR "biodegradeerbare tank"~22) OR NL_AB:(("biologisch afbreekbaar kopvormige"~22 OR "biologisch afbreekbaar cup"~22 OR "biodegradeerbare kopvormige"~22 OR "biodegradeerbare cup"~22 OR "biologisch afbreekbaar beker"~22 OR "biodegradeerbare beker"~22 OR "biologisch afbreekbaar tank"~22 OR "biologisch afbreekbaar reservoires"~22 OR "biodegradeerbare tank"~22)) OR (PL_Tt:(("biodegradowalny zbiornika"~22 OR "biodegradowalnego zbiornika"~22 OR "biologicznemu zbiornika"~22 OR "biologiczny zbiornika"~22 OR "biodegradowalny wanna"~22 OR "biodegradowalnego wanna"~22 OR "biodegradacji zbiornika"~22 OR "rozkladowi zbiornika"~22 OR "biologicznemu wanna"~22) OR PL_AB:(("biodegradowalny zbiornika"~22 OR "biodegradowalnego zbiornika"~22 OR "biologicznemu zbiornika"~22 OR "biologiczny zbiornika"~22 OR "biodegradowalny wanna"~22 OR "biodegradowalnego wanna"~22 OR "biodegradacji zbiornika"~22 OR "rozkladowi zbiornika"~22 OR "biologicznemu wanna"~22)) OR (PT_Tt:(("tanque biodegradável"~22 OR "copa biodegradável"~22 OR "reservatório biodegradável"~22 OR "tanque biodegradável"~22 OR "copa biodegradável"~22) OR PT_AB:(("tanque biodegradável"~22 OR "copa biodegradável"~22 OR "reservatório biodegradável"~22 OR "tanque biodegradável"~22 OR "copa biodegradável"~22))

Supervised mode: 4 steps

Step 1: enter your query, select the query language, the expansion mode, define the level of precision and click the *Select Domains* button:

Search terms... *
biodegradable cup

Query Language
English

The language of your query

Expansion Mode:
 Automatic
 Supervised

Use the **Supervised** mode to select the technical domains, the relevant variants, the languages to translate your query to and the fields to search by

Precision level
High

Influences the precision of the suggested variants
Highest level considers only the most relevant ones (less suggested variants)
Lowest level considers the less relevant as well (more suggested variants)

Select Domains

Step 2: Select the technical domain/s:

The PATENTSCOPE search system will propose a list of domains to which the keywords you entered in the first step could belong. You can edit the proposals by:

- removing the technical domains that are not relevant with just one click on the cross next to the domain:

Select one or more technical domains relevant to your search terms

Domains *

[CHEM] Chemical & Materials Technology X [MANU] Manufacturing & Materials Handling Tech X [PACK] Packaging & Distribution of Goods X

Keep CTRL key pressed to select multiple domains from the list

Back Expand Synonyms

- selecting relevant domains in the drop-down menu:

Select one or more technical domains relevant to your search terms

Domains *

[CHEM] Chemical & Materials Technology X [MANU] Manufacturing & Materials Handling Tech X [PACK] Packaging & Distribution of Goods X

[ADMN] Admin, Business, Management & Soc Sci

[AERO] Aeronautics & Aerospace Engineering

[AGRI] Agriculture, Fisheries & Forestry

[AUDV] Audio, Audiovisual, Image & Video Tech

[AUTO] Automotive & Road Vehicle Engineering

[BUI] Civil Engineering & Building Construction

Up to 5 domains can be selected.

Then click the *Expand Synonyms* button

Step 3: Select the variants relevant to your query

The system will suggest variants for the terms of your initial query. Variants are proposed for each term of your query click the *term* button to check the proposals for all the terms. Select the checkboxes next to the variants relevant to your query. If you know a variant that is not in the proposed list, click on *Add variant* button, enter the variant in the box and select the relevant domain.

▼ TERM 1: CUP

Keep term untranslated when expanding query in other languages

Domains
[AUDV] Audio, Audiovisual, Image & Video Tech X [CHEM] Chemical & Materials Technology X
[MANU] Manufacturing & Materials Handling Tech X [PACK] Packaging & Distribution of Goods X

Variants

Precision level
High

<input type="checkbox"/> bucket	<input type="checkbox"/> ancillary piece	<input type="checkbox"/> close
<input type="checkbox"/> packed	<input type="checkbox"/> earpiece	<input type="checkbox"/> earphone
<input type="checkbox"/> pleats	<input type="checkbox"/> ramming	<input type="checkbox"/> cushion
<input type="checkbox"/> goblets	<input type="checkbox"/> cuvette	<input type="checkbox"/> pot
<input type="checkbox"/> tub	<input type="checkbox"/> pit	<input type="checkbox"/> pad
<input type="checkbox"/> sump	<input type="checkbox"/> converter	<input type="checkbox"/> hollow
<input type="checkbox"/> ear pad	<input type="checkbox"/> bowl	

Add variant

► TERM 2: BIODEGRADABLE

Start Over Back **Translate Selected Terms**

Please note that it is necessary to check if each displayed variant applies otherwise you might have incomplete results.

Click on *Translate Selected Terms*.

Step 4: Check the proposed translations and define the fields in which the search should be performed.

The screenshot shows a search interface with the following elements:

- Language tabs: English, French, German, Spanish, Portuguese, Japanese, Russian, Chinese, Korean, Italian, Swedish, Dutch, Polish, Danish, IPC. A large number '1' is placed over the Danish and IPC tabs.
- Search terms input: "car" OR "wagon" OR "automotive" OR "motor vehicles" OR "automobile" OR "auto" OR "waggon".
- Remove this translation button.
- Field(s) you want to search: * dropdown menu with options: Abstract (selected), Title, Description, Claims. A large number '2' is placed over this dropdown.
- Acceptable distance between matched... dropdown menu with options: Minimal, Sentence (selected), Paragraph, Page, Unconstrained. A large number '3' is placed over this dropdown.
- Stemming checkbox (checked). A large number '4' is placed over this checkbox.
- Start Over, Back, and Search buttons. A large number '5' is placed over the Search button.

1. Check the translated terms by going in each tab. The *remove translation* button will remove language that the user is not interested in
2. Define the fields where the search will be performed. We recommend using title and abstract because it is fast. If you are not satisfied with the amount of results, add then first claims and finally description to the scope of your query to try to find more results.
3. Define the distance between the words. We recommend using the unconstrained option when searching titles and abstracts. If you search description or claims, we recommend using the sentence or paragraph distance to make sure the concepts you search appear close to one another in the text of the returned results.
4. Untick the *Stemming* option if you would like to have results including only the exact term of your search. Stemming uses the root form of the word, for example if you search “swim”, the results will include swimming, swimmers etc.
5. Click on *Submit Query*. Results will be retrieved from the PATENTSCOPE search service and results will be displayed.

5. Chemical structure search

Available from the Search menu, for logged-in users, the chemical structure search allows users to search for chemical information in PATENTSCOPE

The screenshot shows the WIPO PATENTSCOPE interface. At the top, there is a navigation bar with 'WIPO IP PORTAL', 'MENU', 'PATENTSCOPE', 'What is this? x', 'HELP', 'ENGLISH', 'LOG IN' (circled in orange), and 'WIPO'. Below this, there are links for 'Feedback', 'Search', 'Browse', 'Tools', and 'Settings'. The 'Search' dropdown menu is open, showing options: 'Simple', 'Advanced Search', 'Field Combination', 'Cross Lingual Expansion', and 'Chemical compounds [login required]' (circled in orange). The main heading is 'SIMPLE SEARCH'. Below it, there is a text block: 'Using PATENTSCOPE you can search 78 million patent documents including 3.7 million published documents. [Detailed coverage information](#) PCT Publication 04/2020 [23.01.2020] is now available. The next publication date is scheduled for [30.01.2020]. [More](#)'. Below this is a search form with a 'Field' dropdown set to 'Front Page' and a 'Search terms...' input field. A search icon is on the right, and 'Query Examples' is at the bottom right.

If you do not have a WIPO account to login-in, please see Login section of this Guide menu.

There are four options to perform a search.

The screenshot shows the 'Exact Structure Search' interface. At the top, there is a navigation bar with four tabs: 'Convert structure', 'Structure editor', 'SubStructure', and 'Upload structure', all highlighted with a red box. Below the tabs is a search form with a 'Search type' dropdown set to 'Compound name' and a text input field with the placeholder 'Type an accepted name, commercial name, CAS name, IUPAC name'. There is a checkbox for 'Search for scaffold' and a dropdown for 'Offices' set to 'All'. At the bottom, there are three buttons: 'Reset', 'Show in editor', and 'Exact Structure Search'.

Convert structure tab

Convert a structure allows users to select the input type of the search such as the name of the chemical compound.

Convert structure | Structure editor | SubStructure | Upload structure

Search type
Compound name ▼

Type an accepted name, commercial name, CAS name, IUPAC name

Compound name

- INN
- InChI
- SMILES

All

Reset | Show in editor | Exact Structure Search

Different options to enter your search are available: name of the chemical compound such as trivial name, commercial name, IUPAC name or CAS name, the International NonProprietary Name INN, InChI, InChIkeys or SMILES.

You can submit your query directly or check the structure using the show in editor. This button will process the input data to convert the compound name, INN, InChI or SMILES into the corresponding structure.

Structure editor tab

Structure editor allows users to draw or edit a structure. Chemical structures, reactions and fragments can be drawn in a very intuitive way using the symbols familiar from chemical sketches on paper.

Convert structure | Structure editor | SubStructure | Upload structure

Search for scaffold

Offices
All

Reset | Substructure Search | Exact Structure Search | Evaluate

Upload structure tab

Upload a structure allows users to upload a chemical description file in a supported format; for example: MOL, SMILES as well as a bitmap representation of the chemical compound such as png, gif, tiff, jpeg format. The Search for scaffold button will enlarge the search as the compound will be searched more generally, taking into consideration only the 1st part of the InChIKey. The scaffold is Basic skeleton of a molecule to which further groups and moieties are attached Structure editor tab



Substructure search tab

Additionally to the "Exact Structure Search", the functionality to search substructures within chemical compounds is now also available. The "Substructure Search" can be submitted from the "Structure editor".

The screenshot shows the 'Substructure search' tab selected in a navigation bar. Below the navigation bar is a toolbar with various icons. The main area displays a chemical structure of a complex molecule. Below the structure is a text box containing the following information:

InChI: InChI=1S/C22H30N6O4S/c1-5-7-17-19-20[27(4)25-17]22[29]24-21[23-19]16-14-15[8-9-18(16)32-6-2]33[30,31]28-12-10-26(3)11-13-28/h8-9,14H,5-7,10-13H2,1-4H3,[H,23,24,29]
InChIKey: BNRNXUUZRGQAQC-UHFFFAOYSA-N
Molecular Formula: C22H30N6O4S
Molecular Weight: 474.5846 G/mol

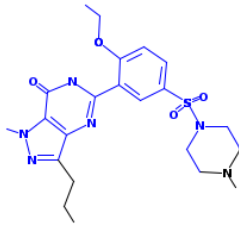
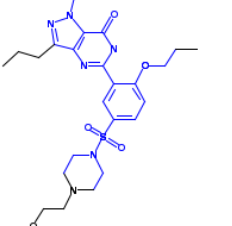
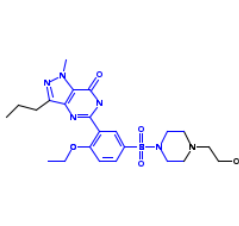
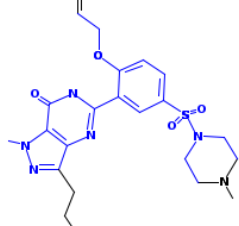
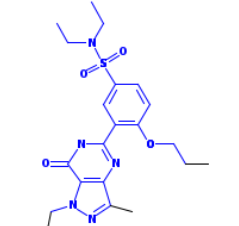
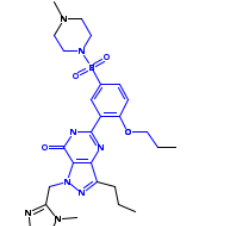
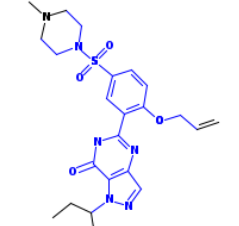
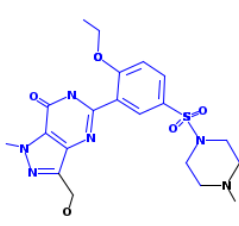



Below the text box is a checkbox labeled 'Search for scaffold' which is currently unchecked. Below the checkbox is a dropdown menu labeled 'Offices' with 'All' selected. At the bottom of the interface are four buttons: 'Reset', 'Substructure Search' (highlighted with a red box), 'Exact Structure Search', and 'Evaluate'.

After a substructure search has been launched, a list of structures containing the query molecule will be returned (ordered as a grid). The matching substructure is shown highlighted (blue color) by each molecule hit.

Convert structure Structure editor **SubStructure** Upload structure

Substructure search results [117 + 69%]

[1 of 5] << < **1** 2 3 4 5 >> >>> 24 ▾

BNRNXXUZRGAQC-UHFFFAOYSA-N 	DDQVAJSWFRJSGC-UHFFFAOYSA-N 	NEYKRKVLWKQBI-UHFFFAOYSA-N 	RLANNACSMIAKAJ-UHFFFAOYSA-N 
PUUBVLATLYXELY-UHFFFAOYSA-N 	DRIPPBPKPZJMRK-UHFFFAOYSA-N 	JDSLHRMLGAKLG-UHFFFAOYSA-N 	NWCBCPZAPZWC-S-UHFFFAOYSA-N 
OJECJYBJIYAQBH-UHFFFAOYSA-N 	ORWIHWJJPQJJI-UHFFFAOYSA-N 	SYUVUKKQXAXKHL-UHFFFAOYSA-N Cl	UDOFFYWLBMCBHJ-UHFFFAOYSA-N 

You can select one or several structures before submitting the search by clicking on the checkboxes or you can select (or deselect) all the chemical compounds on the page clicking the buttons “Select all” (or “Clear all”).

A maximum of 1024 chemical compounds can be selected for the search of the patents. If selection contains more than 1024 chemical compounds, a message will be displayed as shown in **Error! Reference source not found.**

If the “substructure search” takes longer than 4 sec., a link with the label “Show more” will appear on the last page indicating that the substructure search is not completed (s. **Error! Reference source not found.**). This information may also be inferred by the percentage of the result list at the top of the substructure list.

The screenshot displays a search results page for a chemical structure. At the top, there are four chemical structures in a row. Below them is a search bar containing the identifier "BNRNXUZRGGQAC-UHFFFAOYSA-0". Underneath the search bar is a larger chemical structure, which is a complex molecule featuring a benzimidazole core, a benzene ring with an ethoxy group, and a piperazine ring with a sulfonamide group. A red box highlights a "Show more..." button located below this structure. At the bottom of the search bar area, there is a pagination control showing "[5 of 5]" and a set of navigation buttons (1, 2, 3, 4, 5) with a dropdown menu set to "24". Below the search bar is a section for "Offices" with a dropdown menu currently set to "All". At the bottom right of the interface are four buttons: "Reset", "Clear all", "Select all", and "Search".

FAMILIES IN PATENTSCOPE

Simple PCT Families

Definition

A PCT simple family refers to a patent family related to the same invention, each member of which has as basis of its “priority right” exactly the same originating application or applications. The family contains at least one PCT application as a member.

The family includes:

- a) a PCT member which is considered to be the main representative of the family; it will always show up in the result list;
- b) national applications that have specified a prior PCT application;
- c) national entry phase records; and
- d) priority application of the PCT application when unique and first publication.

Observation:

a) US Provisionals:

1. They are only ignored if there is another genuine first filing

2. They are considered if there is no other genuine filing (most common case) and they generate families with the provisional as a first filing (release 2, US related references), currently this is found in the 'Other related publications' family.

b) Republications

Different republications by the same office are considered one single record containing the latest republication.

First filing with the IB, no national priorities

Definition: The initial WO filing together with all the subsequent NPEs and national applications that claim the initial WO as a priority

a) no priority at all

Priorities	PCT	National Phase Entries	Nationals
	WO1	NPE1	
		NPE2	
		NPE3	
		NPE4	
WO1			N1

Family: WO1,NPE1, NPE2, NPE3, NPE4,N1

b) WO priority

Priorities	PCT	National Phase Entries	Nationals
WO0	WO1	NPE1	
		NPE2	
		NPE3	
		NPE4	

Family: WO0, WO1,NPE1, NPE2, NPE3, NPE4,N1

WO with a single priority

Definition: a group of WO patent filings that claim the priority of a single filing, including the original priority forming filing itself together with all the subsequent NPEs and national applications that claim the WO as a priority.

Example:

Priorities	PCT	National Phase Entries	Nationals
P1	WO1	NPE11	
		NPE12	
		NPE13	
		NPE14	
P1	WO2	NPE21	
		NPE22	
WO1			N1
WO2			N2

Family: P1, WO1, WO2, NPE11, NPE12, NPE13, NPE14, NPE21, NPE22, N1, N2

Type1: WO with a single US provisional priority. It has 12 members while the corresponding EP family has 10 members (RU and IN missing).

1. WO2018049420 - PERFUSION BIOREACTOR BAG ASSEMBLIES

PCT Biblio. Data Description Claims Drawings ISR/WOSA/A17[2][a] National Phase Notices Documents

PermaLink Machine translation ▼

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IPC

C12M 1/00 [2006.01] C12M 3/06 [2006.01]

CPC

C12M 23/14 C12M 23/40 C12M 27/16
C12M 29/10 C12M 29/24

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English [EN]

Designated States

View All

Latest bibliographic data on file with the International Bureau

Title

[EN] PERFUSION BIOREACTOR BAG ASSEMBLIES
[FR] ENSEMBLES DE POCHE DE BIORÉACTEUR DE PERFUSION

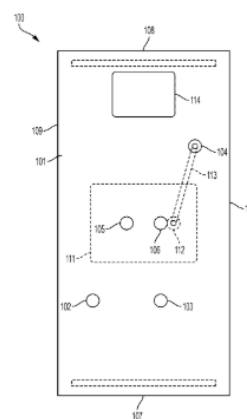


FIG. 1

Abstract

[EN]

The Present Disclosure Is Directed To Bioreactor Bag Assemblies That Can Minimize The Amount Of Additional Connections/Adaptations Made To The Bioreactor Bag Before The Bioreactor Bag Can Be Used For Cell Cultivation, Thereby Reducing The Risk Of Contamination. The Bioreactor Bag Assemblies Disclosed Herein Can Include A Pre-Assembled Waste Bag Connection And Pre-Assembled Tubing Arrangements So That The Cell Media And/Or The Cell Source Can Be Immediately Welded To The Pre-Assembled Tubing Arrangements.

[FR]

La Présente Invention Concerne Des Ensembles De Poches De Bioréacteur Qui Peuvent Réduire La Quantité De Connexions/Adaptations Supplémentaires Faites À La Poche De Bioréacteur Avant Que La Poche De Bioréacteur Ne Puisse Être Utilisée Pour La Culture Cellulaire, Ce Qui Permet De Réduire Le Risque De Contamination. Les Ensembles De Poches De Bioréacteur De L'invention Peuvent Comprendre Une Connexion De Sac De Déchets Pré-Assemblée Et Des Agencements De Tubage Pré-Assemblés De Sorte Que Le Milieu Cellulaire Et/Ou La Source De Cellules Puisse Être Immédiatement Soudés Aux Agencements De Tubes Pré-Assemblés.

Also published as

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JP2019526269 KR1020190045321 MX2019002765 RU2019110824 US20190211292

Type2: WO with a single priority identified (or multiple priorities, but only one non-provisional). This family 20 members in our patent families: ID,IN,IR,MY,TH,VN .

1. WO2016096779 - POWDER MIXTURE COMPRISING ORGANIC PEROXIDE

[PCT Biblio. Data](#) [Description](#) [Claims](#) [ISR/WOSA/A17\[2\]\[a\]](#) [National Phase](#) [Notices](#) [Documents](#)

[PermaLink](#) [Machine translation](#) ▼

Publication Number

WO/2016/096779

Publication Date

23.06.2016

International Application No.

PCT/EP2015/079680

International Filing Date

15.12.2015

IPC

[C08K 5/14 \[2006.01\]](#)

[C08K 13/02 \[2006.01\]](#)

[C07C 409/00 \[2006.01\]](#)

[C11D 3/395 \[2006.01\]](#)

CPC

[C07C 409/34](#)

[C08F 2/44](#)

[C08J 3/223](#)

[C08J 3/242](#)

[C08J 5/121](#)

[C08K 2003/3045](#)

[View More Classifications](#)

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Priority Data

[14198583.8](#) [17.12.2014](#) [EP](#)

Publication Language

English [EN]

Filing Language

English [EN]

Designated States

[View All](#)

Latest bibliographic data on file with the International Bureau

Title

[EN] POWDER MIXTURE COMPRISING ORGANIC PEROXIDE

[FR] MÉLANGE PULVÉRULENT COMPRENANT DU PEROXYDE ORGANIQUE

Abstract

[EN]

Powder Mixture Comprising: -20-90 Wt% Of One Or More Powdered Organic Peroxides And -10-80 Wt% Of One Or More Powdered Filler Materials, At Least 60 Wt% Thereof Being Barium Sulphate.

[FR]

L'invention concerne un mélange pulvérulent comprenant : 20 à 90 % en poids d'un ou de plusieurs peroxydes organiques en poudre et 10 à 80 % en poids d'un ou plusieurs matériaux de remplissage en poudre, au moins 60 % en poids de ceux-ci étant le sulfate de baryum.

Also published as

[AR102965](#) [BR112017012343](#) [CA2969637](#) [CN107001655](#) [EP14198583](#) [EP3233999](#) [ES2704952](#)

[ID2018/03812](#) [IN201717019049](#) [IR139650140003003195](#) [JP2018505247](#) [KR1020170093947](#)

[KR1020190004840](#) [MX2017007649](#) [MYPI 2017702148](#) [PH1/2017/501085](#) [RU0002703238](#)

[TH170454](#) [US20180022892](#) [VN1201702226](#)

An example of a family in PATENTSCOPE

The query: *EN_TI:("horticultural light device" method)* is searched. In the results, 3 families and 8 publications are available.

Feedback Search Browse Tools Settings

EN_TI:("horticultural light device" method)

3 results Offices all Languages en Stemming true **Single Family Member true**

Sort: Relevance Per page: 50 View: Simple 1/1 Machine translation

1. [20190140015](#) HORTICULTURAL LIGHTING DEVICES AND METHODS US - 09.05.2019
2. [WO/2014/108825](#) A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT WO - 17.07.2014
3. [WO/2019/228838](#) A HORTICULTURAL LIGHTING DEVICE FOR SUSTAINING INDOOR PLANT GROWTH AS WELL AS A CORRESPONDING HORTICULTURAL LIGHTING SYSTEM AND METHOD WO - 05.12.2019

1/1

Feedback Search Browse Tools Settings

EN_TI:("horticultural light device" method)

8 results Offices all Languages en Stemming true **Single Family Member false**

Sort: Relevance Per page: 50 View: Simple 1/1 Machine translation

1. [20190140015](#) HORTICULTURAL LIGHTING DEVICES AND METHODS US - 09.05.2019 **1**
2. [0002667769](#) HORTICULTURE LIGHTING DEVICE AND METHOD FOR STIMULATING PLANT GROWTH AND BIO-RHYTHM OF PLANTS RU - 24.09.2018 **2**
3. [20160000018](#) HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT US - 07.01.2018 **2**
4. [104883872](#) A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT CN - 02.09.2015 **2**
5. [2943056](#) A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT EP - 18.11.2015 **2**
6. [4823/CHENP/2015](#) A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO RHYTHM OF A PLANT IN - 01.07.2018 **2**
7. [WO/2014/108825](#) A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT WO - 17.07.2014 **2**
8. [WO/2019/228838](#) A HORTICULTURAL LIGHTING DEVICE FOR SUSTAINING INDOOR PLANT GROWTH AS WELL AS A CORRESPONDING HORTICULTURAL LIGHTING SYSTEM AND METHOD WO - 05.12.2019 **3**

1/1

The family members are available in the WO applications once opened:

7. WO2014108825 - A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT



PCT Biblio. Data Description Claims Drawings National Phase Notices Documents

PermaLink Machine translation ▾

Publication Number

WO/2014/108825

Publication Date

17.07.2014

International Application No.

PCT/IB2014/058092

International Filing Date

07.01.2014

IPC

A01G 7/04 [2006.01] H01L 33/50 [2010.01]

CPC

A01G 7/04 A01G 7/045 F21K 9/84
F21V 9/30 H01L 25/0753 H01L 2924/0002

[View more classifications](#)

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Priority Data

61/751,285 11.01.2013 US

Publication Language

English [EN]

Filing Language

English [EN]

Designated States

[View all](#)

Latest bibliographic data on file with the International Bureau

Title

[EN] A HORTICULTURE LIGHTING DEVICE AND A METHOD TO STIMULATE PLANT GROWTH AND BIO-RHYTHM OF A PLANT
[FR] DISPOSITIF D'ÉCLAIRAGE D'HORTICULTURE ET PROCÉDÉ DE STIMULATION DE CROISSANCE DE PLANTE ET DE BIORYTHME D'UNE PLANTE

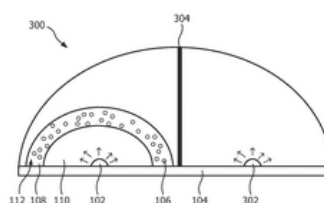


FIG. 3

Abstract

[EN]

The present invention relates to a lighting device (100) to stimulate plant growth and bio-rhythm of a plant. The lighting device (100) comprising a solid state light source (102) arranged to emit direct red light having a wavelength of 800 to 880 nm, preferably 840 to 860 nm, and a wavelength converting member (106) arranged to receive at least part of said direct red light emitted from said solid state light source (102) and to convert said received direct red light to far-red light having a maximum emission wavelength of 700 to 780 nm, preferably 720 to 780 nm.

[FR]

La présente invention concerne un dispositif d'éclairage (100) pour stimuler une croissance de plante et un biorythme d'une plante. Le dispositif d'éclairage (100) comprend une source de lumière à semi-conducteur (102) conçue pour émettre une lumière rouge directe ayant une longueur d'onde de 800 à 880 nm, de préférence de 840 à 860 nm, et un élément de conversion de longueur d'onde (106) conçu pour recevoir au moins une partie de ladite lumière rouge directe émise par ladite source de lumière à semi-conducteur (102) et pour convertir ladite lumière rouge directe reçue en lumière rouge lointain ayant une longueur d'onde d'émission maximale de 700 à 780 nm, de préférence de 720 à 780 nm.

Also published as

[BR112015018408](#) [CN104883872](#) [DK2943056](#) [EP2943056](#) [IN4823/CHENP/2015](#) [JP2016504044](#) [JP2016504044](#) [RU0002887789](#)
[RU2015133530](#) [US20160000018](#)

To use the “Single Family Member” option, go to:

- 1) The result list page where you can refine your query clicking on the *Single Family Member* to open the *Refine Options*:

The screenshot shows the WIPO PATENTSCOPE search results page for the query "FP:(car)". The search bar contains "FP:(car)" and a magnifying glass icon. Below the search bar, the results are displayed as "413,864 results". The filters "Offices All", "Languages En", and "Stemming False" are visible. The "Single Family Member True" filter is highlighted with a red box. The page shows "Page 1 / 41,387" and "Per page: 10". The first result is "1. WO/2019/109838 NUCLEOTIDE SEQUENCE ENCODING CAR, ROBO1 CAR-NK CELL EXPRESSING CAR AND PREPARATION THEREFOR AND USE THEREOF" with a date of "WO - 13.06.2019". The abstract text is visible below the title.

- 2) The Advanced Search where you can tick the *Single Family Member* box:

The screenshot shows the "REFINE OPTIONS" dialog box in the WIPO PATENTSCOPE search interface. The dialog box has a "Close" button and a "Search" button. The "Offices" dropdown is set to "All", and the "Languages" dropdown is set to "English". The "Stemming" checkbox is unchecked. The "Single Family Member" checkbox is checked and highlighted with a red box.

3) The Field Combination where you can tick the *Single Family Member* box:

The screenshot shows the 'FIELD COMBINATION' search interface on the WIPO PATENTSCOPE website. The interface includes a table of search criteria with columns for 'Field', 'Operator', and 'Value'. Below the table are options for 'Offices', 'Languages', and 'Stemming'. At the bottom, there is a checkbox for 'Single Family Member' which is highlighted with a red box. There are also 'Reset' and 'Search' buttons.

4) In individual documents: the family members of a WO application are available in the bibliographic data page:

The screenshot shows the bibliographic data page for patent WO/2016/068517. The page includes the title 'LED LIGHTING MODULE FOR OPTIMIZING INITIAL PLANT GROWTH EFFICIENCY AND LED LIGHTING APPARATUS HAVING SAME', the applicant 'FUTUREGREEN AGRICULTURAL CO., LTD.', and a graph showing light intensity over time. At the bottom, the 'Also published as' section is highlighted with a red box, listing patent numbers: CA2685633, CN302078289, JP2016502077, KR20160146749, and US20170246440.

Any other publication that shares one of several priority with an existing patent PCT family will be displayed under the ‘*Other related publications*’ field. In most cases, it could be a real family member but more analysis is required to validate it.

For example WO2007108662

1. WO2007108662 - ICE-MAKING DEVICE FOR REFRIGERATOR

PCT Biblio. Data Drawings National Phase Notices Documents

Publication Number
WO/2007/108662

Publication Date
27.09.2007

International Application No.
PCT/KR2007/01420

International Filing Date
23.03.2007

IPC
F25C 1/24 (2006.01)

CPC
F25C 2400/10 F25C 5/182 F25C 5/22 F25D 17/085 F25D 23/028 F25D 23/04

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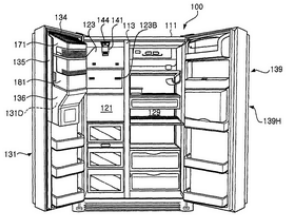
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Title
[EN] ICE-MAKING DEVICE FOR REFRIGERATOR
[FR] DISPOSITIF DE FABRICATION DE GLACE POUR UN RÉFRIGÉRATEUR

Abstract
[EN] The present invention relates to an ice-making device for a refrigerator. The present invention provides an ice-making device for a refrigerator including a main body having a storage space and installed on a backside of the storage space, an ice-making device including an ice maker and a cold air duct provided in one side of the storage space and supplying the ice maker with a portion of cold air supplied to the storage space, an ice bank and an ice bank detachably installed on the backside of the door below the ice maker, the ice bank storing ice made in the ice maker and transferring it to a dispenser provided on the door. According to the full extent, and some modifications, the present invention can be prevented from permeating ice in a process of making ice.
[FR] La présente invention concerne un dispositif de fabrication de glace pour un réfrigérateur. Ce dispositif comprend un corps principal qui présente un espace de stockage et une porte permettant de stocker, un couvercle pour la fabrication de glace qui est installé sur une face arrière de la porte et qui produit de la glace, une conduite à air froid qui se trouve dans un côté de l'espace de stockage, un système de fabrication de glace qui est monté de façon amovible sur la face arrière de la porte et qui est conçu pour ouvrir ou fermer de façon sélective le système de fabrication de glace, et qui stocke de la glace fabriquée dans le système de fabrication de glace et la transfère vers un distributeur situé sur la porte. Cette invention transfère l'odeur d'aliments dans la glace lors du processus de fabrication de la glace.

Also published as
AU2007227891 BRPI0707200 CA2639048 CN101378352 EP2005003 EP2898915 EP3147896 EP3150944 IL194173 IN2783/KOLNP/2008 MXMX/a/2008/009154 RU02404394 US20090173088

Other related publications
US20110296689 US20110296864



US20110296689 and US20110296864 share the same priorities with the WO applications, so theoretically they should be part of the same family.

THE COOPERATIVE PATENT CLASSIFICATION

The Cooperative Patent Classification (CPC) system, in force as of 1 January 2013, is a bilateral system that jointly developed by the EPO and the USPTO. It combines the best classification practices of the two offices.

In PATENTSCOPE, the CPC values are imported from DocDB and national offices as follows:

- 52 National offices+PCT: gathered regularly from DocDb and the national offices. PATENTSCOPE contains, at the time of writing this Guide, more than 200 million of CPC entries, which correspond to more than 40 million of distinct filings.
- Daily updates

IP5 N. of distinct filings classified under CPC classification	
US	11,019,736
CN	6,743,607
JP	4,848,323
EP	3,568,744
KR	2,058,568

CPC statistics as of February 2020

SEARCH FIELDS

2 search fields are available: CPC, Classif. Classif is the combination of CPC and IPC.

In the example below, the query: CPC:(Y02A*) returns 351k results, which are grouped by family.

The screenshot shows a search results page for the query CPC:Y02A*. The page includes a search bar, navigation options, and an 'ANALYSIS' section with a table of results grouped by family. The table has columns for Countries, Applicants, Inventors, IPC code, and Publication Dates. Below the table, there is a snippet of a patent entry for 'ELEVATED STORAGE TANK'.

Countries	Applicants	Inventors	IPC code	Publication Dates			
China	MITSUBISHI HEAVY IND LTD	805	1,283	A010	51,894	2011	12,258
Japan	TOYOTA MOTOR CORP	762	605	A61K	44,559	2012	15,092
PCT	HITACHI LTD	529		B01D	37,523	2013	18,388
United States of America	SANYO ELECTRIC CO LTD	508		A61K	32,876	2014	19,072
Germany	TOSHIBA CORP	490		C02F	28,570	2015	20,830
France	DENSO CORP	454		C02F	20,281	2016	22,013
European Patent Office	BOSCH GMBH ROBERT	428		C12N	19,851	2017	33,115
United Kingdom	OSAKA GAS CO LTD	401		C05F	18,069	2018	28,401
Spain	PEUGEOT CITROEN AUTOMOBILES SA	392		E02B	17,002	2019	2,565
Canada	PIONEER HI-BRED INTERNATIONAL, INC.	359		E03B	18,158	2020	97

1. **PA/A/2001/020465** ELEVATED STORAGE TANK
 Int. Class. E03B 11/12 Appl. No. P/A/2001/020465 Applicant: CHICAGO BRIDGEIRON COMPANY* Inventor: BRYANT A. ZAUVITZ*
 An elevated water storage tank comprises a reservoir supported by a pedestal with a concrete bell portion supporting a cylindrical shaft section that is no more than one quarter the width of the reservoir. The bell portion has a polygonal cross-section with sloping sides and is constructed of a series of upstanding segments having relatively long lower edges, relatively short upper edges, and converging side edges. The cylindrical shaft section is situated on top of the bell portion with the reservoir situated atop the cylindrical shaft. The cylindrical shaft formed of a plurality of sections extending from the bell portion to the reservoir.

To search for CPC information, go to the Field Combination and select *All Classifications* (combination of IPC and CPC) from the drop-down menus

FIELD COMBINATION ▾

		Field Front Page	▼	Value	?
Operator AND	▼	Field All Classifications	▼	Value	?
Operator AND	▼	Field Cooperative Patent Class	▼	Value	?
Operator AND	▼	Field Publication Date	▼	Value	?

Those fields can also be found in the Advanced Search: just start typing *class* and the matching fields will appear below:

ADVANCED SEARCH ▾

✔ Please enter a valid field... [or use UP/DOWN keys, and TAB or ENTER to select]

clas

All Classifications

Cooperative Patent Classification

International Class

International Class Inventive

International Class N-Inventive

Main International Class

THE BROWSE MENU

The screenshot shows the Patentscope interface with the 'Browse' dropdown menu open. The menu items are: Browse by Week (PCT), Gazette Archive, National Phase Entries Full download, National Phase Entries Incremental download (last 7 days), Authority File Download current year, Authority File Download All, Sequence listing, IPC Green Inventory, and Portal to patent registers. The 'Browse' button in the top navigation bar is highlighted with a red box.

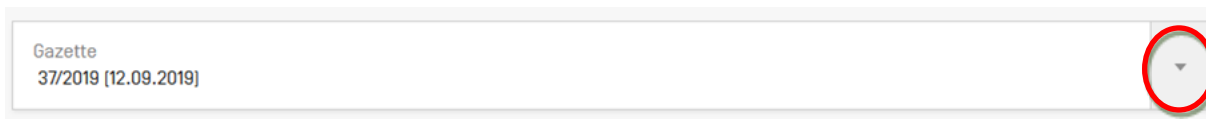
BROWSE BY WEEK (PCT)

WIPO publishes new PCT applications every week on Thursday. Selecting *Browse by week* gives access to a list of PCT applications by publication week.

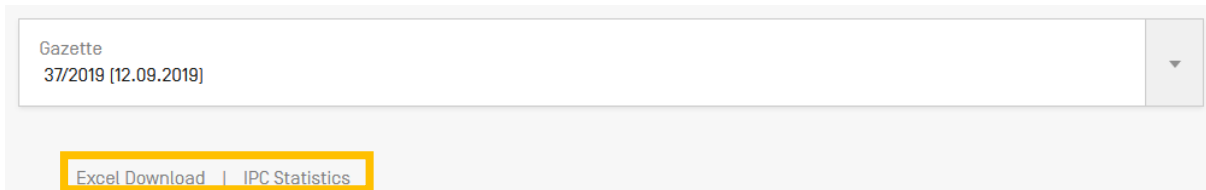
The screenshot shows the 'BROWSE BY WEEK (PCT)' page. It features a dropdown menu for 'Gazette 37/2019 [12.09.2019]', 'Excel Download | IPC Statistics', and a table of search results. The table has columns for Title, Kind, Appl.No, IPC, and Applicant. Three results are visible, starting with '1. WO/2019/173151 SMART BLADE TECHNOLOGY TO CONTROL BLADE INSTABILITY'.

Title	Kind	Appl.No	IPC	Applicant
1. WO/2019/173151 SMART BLADE TECHNOLOGY TO CONTROL BLADE INSTABILITY	Initial Publication with ISR[A1]	US2019...	A61B 17/32	ETHICON LLC
2. WO/2019/173154 (METH)ACRYLATE COPOLYMER COMPOSITIONS AND USE THEREOF AS POUR POINT DEPRESSANTS FOR CRUDE OIL	Initial Publication with ISR[A1]	US2019...	C10M 145/14	ROHM AND HAAS COMPANY
3. WO/2019/173157 CONDUCTIVELY-COOLED SLAB	Initial Publication	US2019...	H01S	COHERENT, INC.

Use the arrow of the drop-down menu to select a PCT publication week.



The result list can be downloaded using the Excel download button and IPC statistics can be accessed:



IPC statistics available in PATENTSOCPPE provide a picture of the global trends in PCT applications. For example, it can show who the main and/or new main actors are etc. It takes into account applications that have IPC codes. Out of 3000 published applications, about 100 do not have any IPC code.

IPC STATISTICS

Columns

Chart	IPC Code \downarrow	26.12.2019 \downarrow	02.01.2020 \downarrow	09.01.2020 \downarrow	16.01.2020 \downarrow	23.01.2020 \downarrow	Σ Last 5 gazettes \downarrow	Δ Last gazette \downarrow	Breakout \downarrow
<input type="checkbox"/>	A61P 35/00 $\textcircled{?}$	<u>78</u>	<u>63</u>	<u>44</u>	<u>58</u>	<u>50</u>	<u>293</u>	-8	-10.75
<input type="checkbox"/>	A61B 5/00 $\textcircled{?}$	<u>42</u>	<u>53</u>	<u>28</u>	<u>35</u>	<u>43</u>	<u>201</u>	+8	+3.50
<input type="checkbox"/>	G06K 9/00 $\textcircled{?}$	<u>32</u>	<u>42</u>	<u>37</u>	<u>25</u>	<u>40</u>	<u>176</u>	+15	+6.00
<input type="checkbox"/>	H04W 72/04 $\textcircled{?}$	<u>50</u>	<u>50</u>	<u>35</u>	<u>35</u>	<u>39</u>	<u>209</u>	+4	-3.50
<input type="checkbox"/>	H04L 29/06 $\textcircled{?}$	<u>49</u>	<u>101</u>	<u>33</u>	<u>45</u>	<u>36</u>	<u>264</u>	-9	-21.00
<input type="checkbox"/>	H04N 5/22 $\textcircled{?}$	<u>10</u>	<u>20</u>	<u>11</u>	<u>10</u>	<u>25</u>	<u>111</u>	+17	+16.00

The column Σ last 5 gazettes shows the number of occurrences of a code in the last 5 gazettes.

The column Δ shows the increase/decrease in the last gazette.

Breakout a major difference in the use of a code in the last 5 gazettes.

Each column is sortable. A tooltip pops up on the individual gazette columns to indicate the delta with the previous week.

You can select more than one code to be display in the graphic at the bottom of the page that displays the values for the last 13 weeks (3 month).

There is the *chart* option to have the information in a graph format.

GAZETTE ARCHIVE

In the *Gazette Archive*, you will find searchable official lists of all published PCT applications since 1978. *View* includes details about each document in the publication selected.

PCT PUBLICATIONS - GAZETTES ARCHIVE

Year
2019

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Download	Publication Date	Count	
01/2019	03.01.2019	6,730	View
02/2019	10.01.2019	4,191	View
03/2019	17.01.2019	4,385	View

PCT PUBLICATIONS - GAZETTES ARCHIVE - 2020

Gazette
01/2020

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Filter all columns:

Results 1 - 200 of 6758

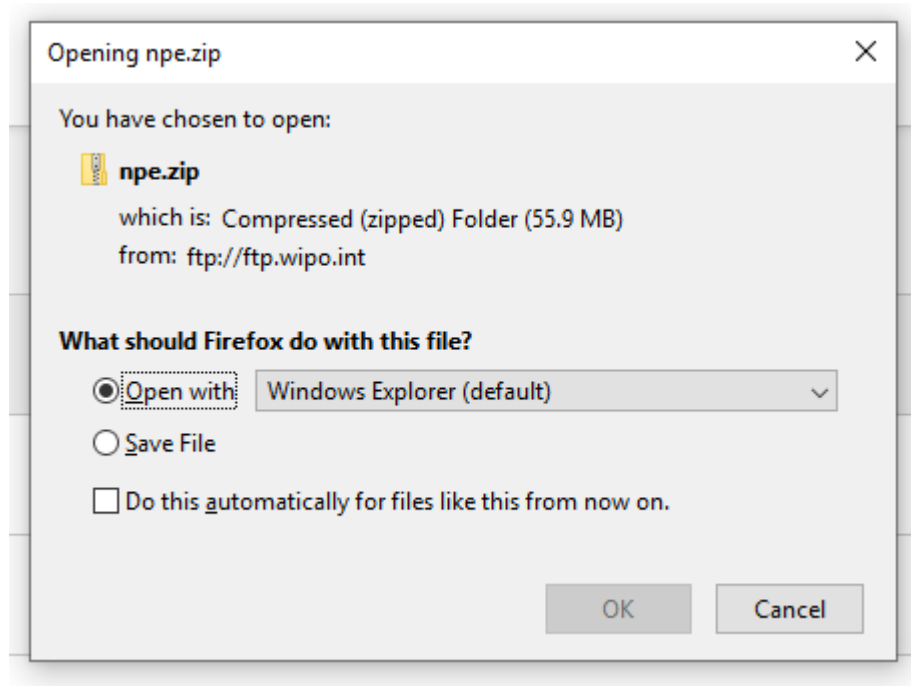
1 2 3 4 5 6 7 8 9 10

WO Number	Title	Kind	Appl....	IPC	Applicant	
1. WO/2020/001477	DUAL-PROTOCOL FOR MOBILITY ENHANCEMENT	Initial Publi... with ISR [A1]	CN20...	H04...	MEDIATEK SINGAPORE PTE. LTD.	Vi...
2. WO/2020/001480	METHOD AND SYSTEM FOR PACKAGING TILES BY GRADE	Initial Publi... with ISR [A1]	CN20...	G06...	KEDA CLEAN ENERGY CO., LTD	Vi...



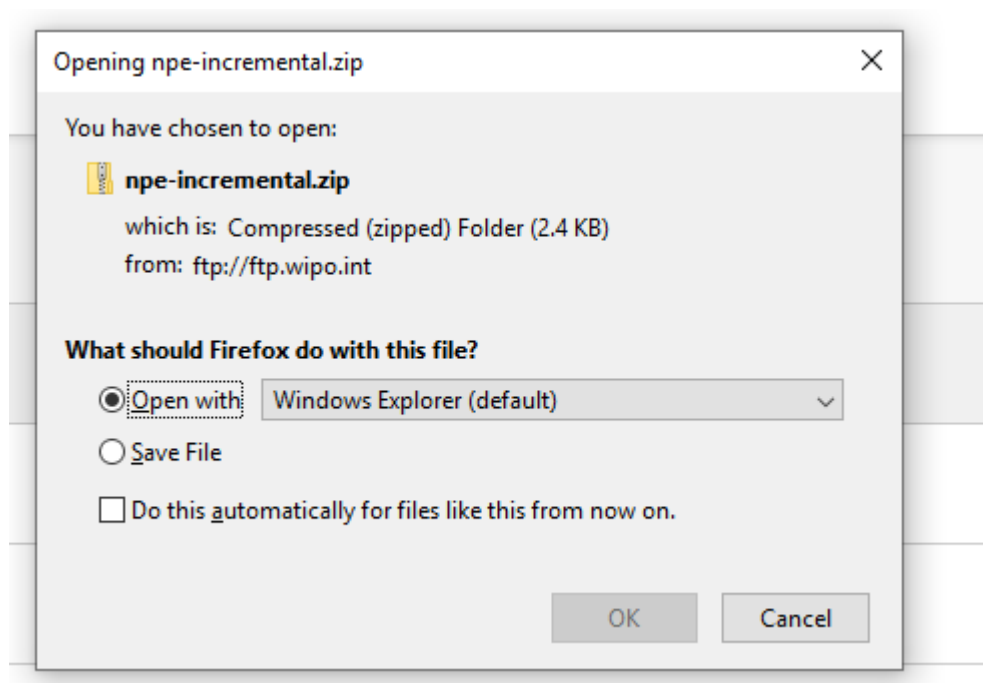
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NATIONAL ENTRIES INCREMENTAL DOWNLAOD (LAST 7 DAYS)

Here you can download the national phase entries of the last 7 days.



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AUTHORITY FILE DOWNLOAD ALL

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SEQUENCE LISTING

Sequence Listing gives access to the lists of nucleotide and or amino acid sequence listings contained in published PCT applications. Use the 2 drop-down menus shown below to select the year and publication week.

SEARCH SEQUENCE LISTINGS

Back to home

This data is also available for bulk download via anonymous ftp from ftp://ftp.wipo.int/pub/published_pct_sequences/publication/

Published Nucleotide and/or Amino Acid Sequence Listings Contained in Published PCT Applications [WinZIP 8.0]

Year: 2019 ▼ Publication Week: September 12, 2019 ▼ Publication Date:

WoNumber	Size	Download	Applicant
W019/169448	5 KBs	SL1.zip	ST VINCENT'S INSTITUTE OF MEDICAL RESEARCH
W019/169504	0 KBs	SL1.zip	POLYAMYNA NANOTECH INC.
W019/169625	2 KBs	SL1.zip	BIOCENTURY TRANSGENE [CHINA] CO., LTD
W019/169625	2 KBs	SL1.zip	BIOCENTURY TRANSGENE [CHINA] CO., LTD

IPC GREEN INVENTORY

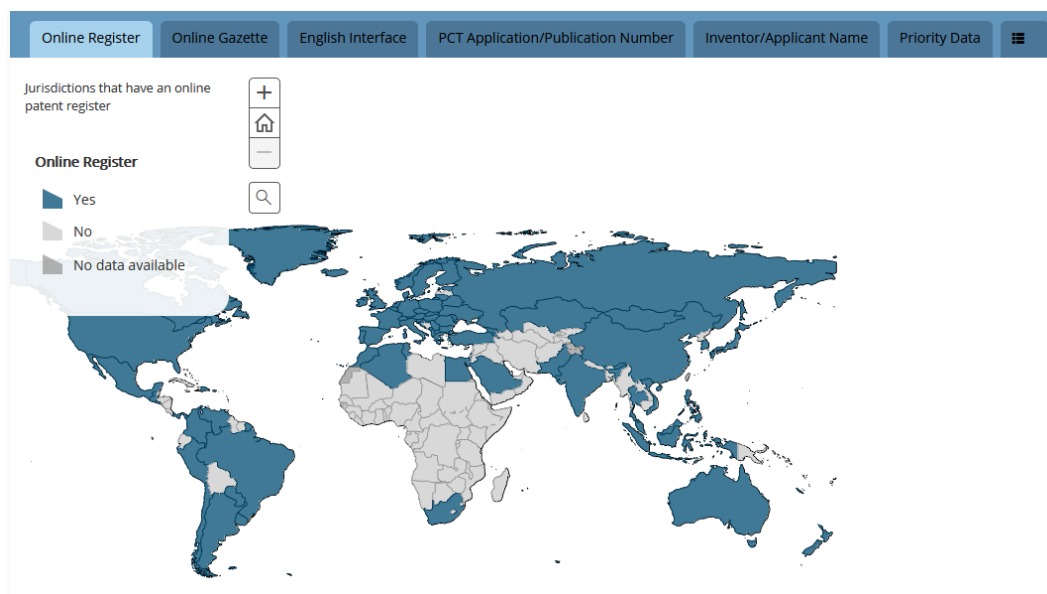
The IPC Green Inventory attempts to collect Environmentally Sound Technologies (ESTs as listed by the United Nations Framework Convention on Climate Change (UNFCCC)) in one place as they are currently scattered widely across the IPC in numerous technical fields.

ESTs are presented in a hierarchical structure (A). For each technology, the links in the IPC column direct the user to the corresponding place in the scheme. The links in the PATENTSCOPE column (B) allow the user to automatically search and display all international patent applications available through PATENTSCOPE that are classified in the relevant IPC place.

TOPIC	IPC	PATENTSCOPE
ALTERNATIVE ENERGY PRODUCTION		
▸ Bio-fuels		
Integrated gasification combined cycle (IGCC)	C10L 3/00 F02C 3/28	C10L 3/00 F02C 3/28
▸ 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
▸ Harnessing energy from manmade waste		
▸ Hydro energy		
Ocean thermal energy conversion (OTEC)	F03G 7/05	F03G 7/05
▸ Wind energy	F03D	F03D
▸ Solar energy	F24S H02S	F24S H02S
▸ Geothermal energy	F24T	F24T

PORTAL TO PATENT REGISTERS

The portal aims to facilitate the verification of legal status of patents and related SPCs by compiling relevant information of national registers of various jurisdictions, e.g. availability of online access to a national or regional register.



SEARCH RESULTS

DISPLAY OF THE SEARCH RESULTS

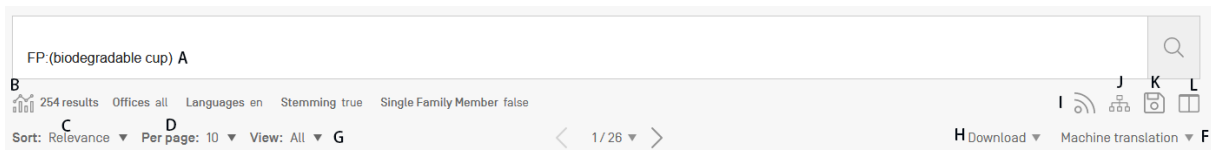
The search query, whether you performed a SIMPLE; ADVANCED; FIELD COMBINATION, CLIR or CHEMICAL COMPOUNDS search, will return a list of results in a window as shown below:

It provides bibliographic data with search terms highlighted and allows accessing of detailed records by clicking on publication number and title.

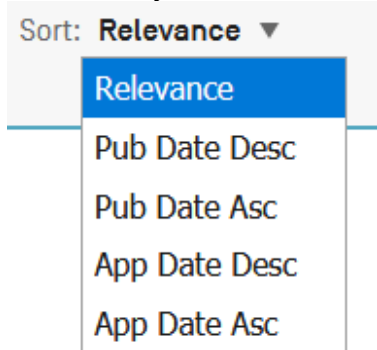
The screenshot shows a search interface with a search bar containing 'FP:(electric bicycle)'. Below the search bar, it indicates '11,649 results' and various filters like 'Offices All', 'Language En', and 'Stemming False'. There are navigation icons for back, forward, and search, along with a page indicator 'Page 1 / 1,165'. The results are sorted by 'Relevance' and 'Per page: 10'. Two results are displayed:

- 1. 104228605 ELECTRIC BICYCLE WIRELESS CONTROL SYSTEM AND ELECTRIC BICYCLE** (CN - 24.12.2014)
Int.Class B60L 15/00 ? Appl.No 201310230910.4 Applicant SHENZHEN SONGI ELECTRIC BICYCLE CO., LTD. Inventor SUN ZHONGFENG
The invention provides an electric bicycle wireless control system which is connected with a motor of an electric bicycle. The electric bicycle wireless control system comprises a control element which outputs a signal, a control panel which is electrically connected with the control element and used for receiving and processing the signal from the control element, outputting a whole vehicle control signal and displaying a running state of the electric bicycle, and a controller which is wirelessly communicated with the control panel, drives the motor to work based on the whole vehicle control signal and outputs a display signal for displaying the running state of the electric bicycle. The invention also provides an electric bicycle. The electric bicycle wireless control system and the electric bicycle enable signal transmission to be steadier, reduce the trouble of assembling of the whole vehicle, and are also good for maintenance in future.
- 2. 204323605 ELECTRIC BICYCLE** (CN - 13.05.2015)
Int.Class B62K 11/00 ? Appl.No 201420868644.8 Applicant JIANGSU LVNENG ELECTRIC BICYCLE TECHNOLOGY DEVELOPMENT CO., LTD. Inventor LIU XIAO
The utility model discloses an electric bicycle. The electric bicycle comprises a bicycle frame, a front wheel arranged on the front of the bicycle frame and a back wheel arranged on the back of the bicycle frame, guard boards are arranged on the left side and the right side located on the back wheel, a charger protecting shell is arranged on one of the guarding boards, and a charger is installed in the charger protecting shell; a controller protecting shell is arranged

The first component of this window:



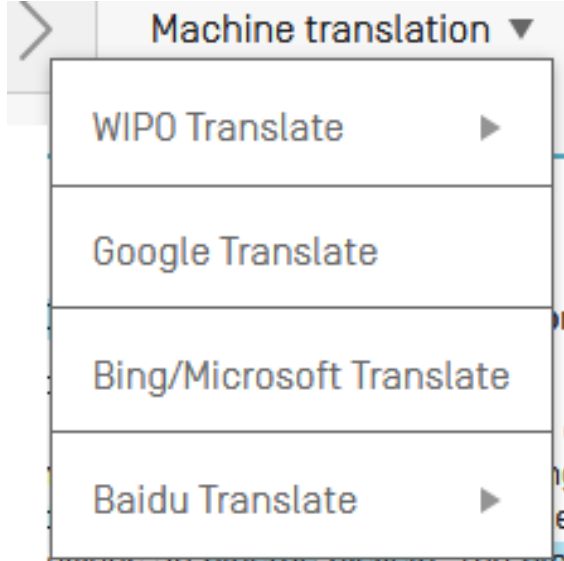
- A Refine Search button allows you to refine your search
- B Analysis button to statistics
- C Sort by relevance or other criterias



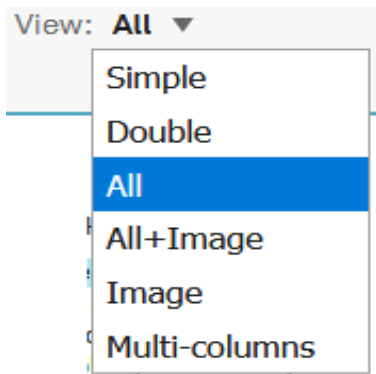
D Define the number of results per page: The list length option allows you to increase the number of displayed results per page (10 by default) to up to 200.

E Buttons to move through the result list

F Machine translation buttons to translate the result page with different tools



G Select the preferred display of the results



The view option allows you to select the components displayed in the result list: *simple*, *double*, *all*, *all+image*, *image* and *multi-columns*. *Simple* displays only the number, the title, the collection and the publication date; *Double* the simple display and the applicant and inventor names, the IPC code; *Image* will display only images, *Multi-columns* will display the different language version of the abstract available, Images can be also made visible for example

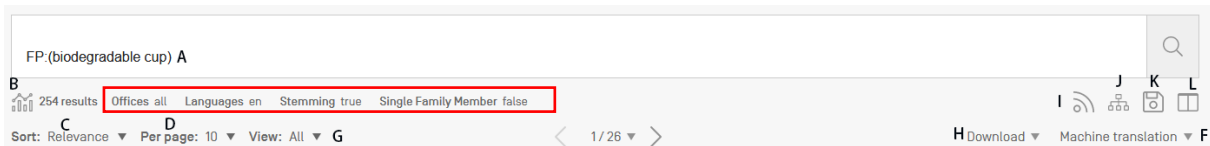
H Download button to download the result list

I Allows you to set up RSS notifications based on your search query, helping you to monitor patenting activity and updates in your area of interest

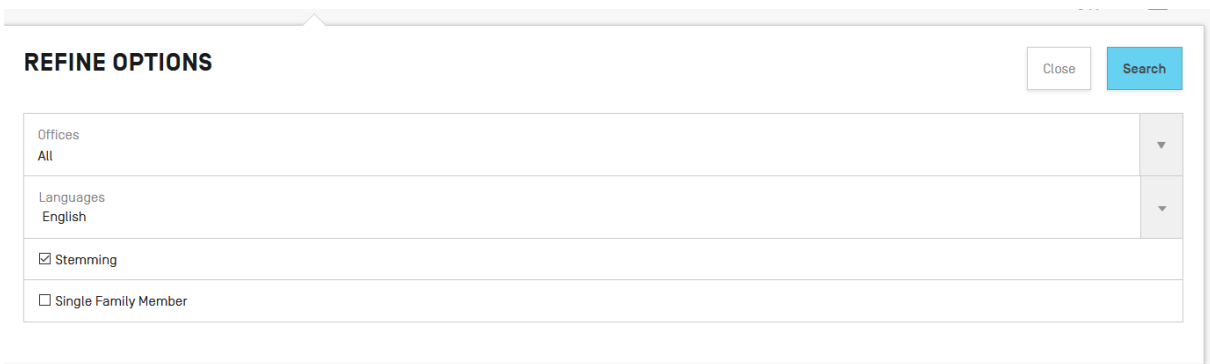
J Query tree shows the breakdown of the results

K Save your query

L Side-by-side view: displays the result list next to one document opened



Click on Offices or Languages or Stemming or Single Family Member to open Refine Options to define the collections (Offices); Language (of search); Stemming and the Single Family Member:



Result analysis – analysis button

178,832 results Offices all Languages en Stemming true Single Family Member false

ANALYSIS

Close

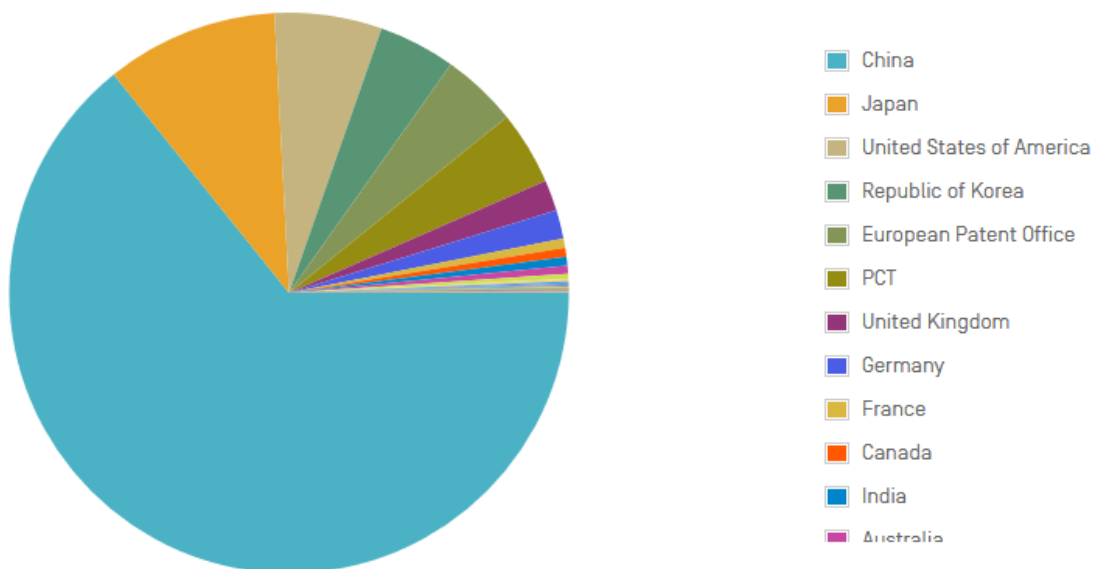
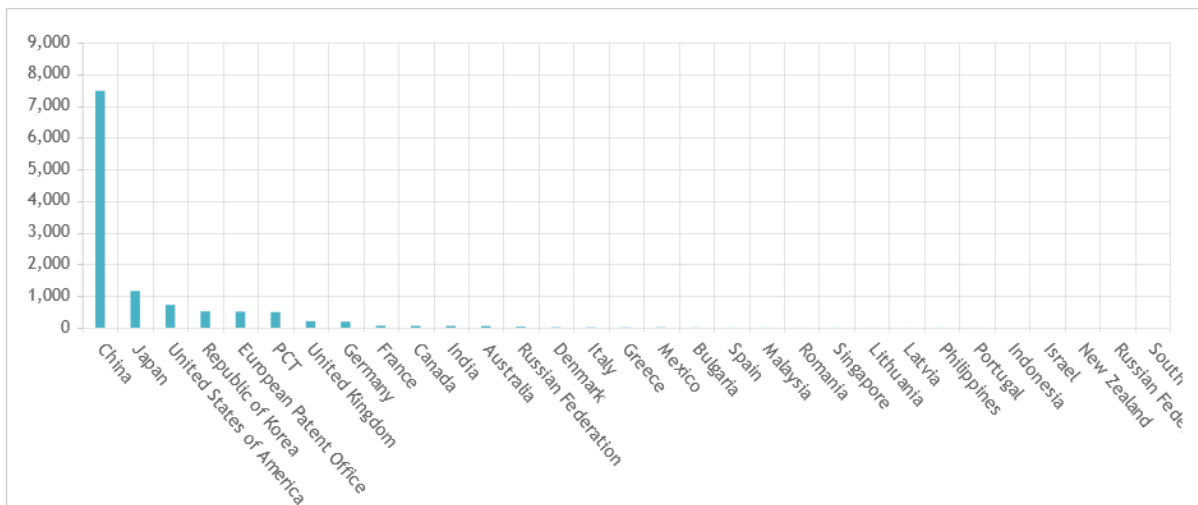
Filters

Charts

Countries		Applicants		Inventors		IPC code		Publication Dates		Filing Dates	
China	7,481	MATSUSHITA ELECTRIC IND CO LTD	203	FUKUDA HITOSHI	47	B62M	4,319	2018	2,388	2017	2,424
Japan	1,159	SANYO ELECTRIC CO LTD	181	SUN BIN	45	B62J	2,755	2017	1,678	2016	1,599
United States of America	722	Shimano Inc.	112	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	44	B62K	2,210	2015	1,039	2018	1,499
Republic of Korea	519	YAMAHA MOTOR CO LTD	105			B62H	973	2016	1,029	2015	793
European Patent Office	510	SHIMANO INC	87	WANG QINGHUA	34	B60L	935	2019	1,027	2014	743
PCT	495	HONDA MOTOR CO LTD	64	FUKUOKA YUJI	33	H02J	837	2014	559	2012	449
United States	208					H02K	599	2012	416	2013	434
						H01M	484			2010	377

Filters show a summary of the main *Countries*, *Applicants*, *Inventor*, *IPC code*, *Publication Date* and *Filing dates*

Charts show the same information in a graph format, either bar or pie



In both bar and pie options, the tabs allow you to see the information graphically for the *Offices*, *Main IPC*, *Main Applicant*, *Main Inventor* and *Publication Date*.



The charts can be saved in GIF format for inclusion in documents or reports by right clicking in a corner of the image and selecting “Copy image” or “Save image”.

Machine translation

- D The Machine translation button offers
- E Side-by-side will display the result list next to one document opened

READING THE RESULT PAGE

PCT Biblio. Data Description Claims Drawings ISR/WOSA/A17[2][a] National Phase Notices Documents

[Submit observation](#) [PermaLink](#) [Machine translation](#) ▼

Publication Number
WO/2018/130999

Publication Date
19.07.2018

International Application No.
PCT/IB2018/050237

International Filing Date
15.01.2018

IPC ⓘ

B82M 6/55 (2010.01)	B82M 6/90 (2010.01)
B82J 6/00 (2008.01)	B82J 6/02 (2008.01)
B82J 6/04 (2008.01)	B82J 15/02 (2008.01)

View more classifications

CPC

B82J 11/00	B82J 15/02	B82J 45/00
B82J 6/015	B82J 6/02	B82J 6/04

View more classifications

Applicants
EURORAD DEUTSCHLAND GMBH (DE/DE);
Longericher Str. 2 50739 Köln, DE

Inventors
MÜHLE, Sören; DE
DE PONTE, Alexander; DE

Agents
ALTHAUS, Arndt; DE

Title

[EN] BICYCLE FRAME, IN PARTICULAR FOR **ELECTRIC BICYCLES, ELECTRIC BICYCLE** AND MOBILE LIGHTING DEVICE AND ADAPTER PARTS FOR BICYCLE ACCESSORIES

[FR] CADRE DE BICYCLETTE, EN PARTICULIER POUR BICYCLETTES ÉLECTRIQUES, BICYCLETTE ÉLECTRIQUE, DISPOSITIF D'ÉCLAIRAGE MOBILE ET PARTIES D'ADAPTATEUR POUR ACCESSOIRES DE BICYCLETTE

FIG 2

Abstract

[EN]
The invention relates a.o. to a bicycle frame 1 comprising frame struts 2, 3, 4, 5, an electric motor 11, one compartment for a power supply unit 9 and multiple supply cables for a front light 70 and a rear light 80 which are fastened by a multiple-part adapter arrangement with a bicycle-side adapter part and a lighting device-side adapter part. The invention offers a new lighting concept for all kind of bikes with detachable front and rear lights by use of two adapter parts being each provided with one closure part of a multiple-part closure device, which closure parts are attachable and mechanically latchable together by means of a closing motion, wherein the closure parts each comprise at least one magnet element or magnet counter-element

The tabs

PCT Biblio. Data

- : Refers generally to the various data appearing on the front page of a patent document or the corresponding applications and may comprise document identification data, domestic filing data, priority data, publication data, classification data, and other concise data relating to the technical content of the document;

Description

- : Clear and concise explanation of known existing technologies related to the new invention and explanation of how this invention could be applied to solve problems not addressed by the existing technologies; specific embodiments of the new technology are also usually given. Integrated machine translation tools allow translation of the document.

Claims

- : Legal definition of the subject matter which the applicant regards as his invention and for which protection is sought or granted; each claim is a single sentence in a legalistic form that defines an invention and its unique technical features; claims must be clear and concise and fully supported by the description. Integrated machine translation tools allow translation of the document.

Drawings

- : gives direct access to the drawings of a patent document

ISR/WOSA/A17[2][a]

: gives access to the ISR/WOSA/Article 17(2)

National Phase

- : 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. A list of national patent offices supplying national phase information can be found here: <http://www.wipo.int/pctdb/en/nationalphase.jsp>.

Notices

- : notifications of changes after publication

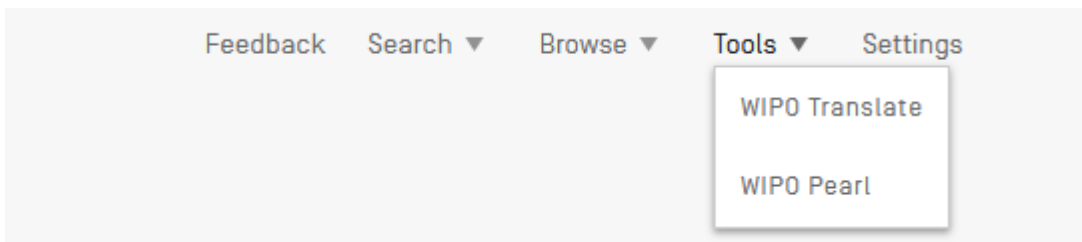
Documents

- : This service provides access to published PCT international applications and to the latest bibliographic data and documents contained in the files of PCT international applications. Due to changes in the PCT Regulations and to the availability of documents in electronic form, the information available is different depending on the date of filing of the international application. WIPO bears no responsibility for the content of PCT international applications and related documents. The bibliographic data and documents are updated daily and publication of new applications is updated weekly on publication day, i.e., Thursday, unless the International Bureau is closed for a public holiday in which case data is published on Friday.

In the *Settings* menu, in the *Result* tab, the *enable multi document download* can be activated for logged-in users in order to download one or more documents.

TOOLS

WIPO TRANSALTE



This translation tool is available for the translation of patent texts. Developed and trained internally on bilingual patent corpuses, it incorporates neural machine translation technology. It takes into account 32 technical domains derived from the IPC:

[ADMN] Admin, Business, Management & Soc Sci
 [AERO] Aeronautics & Aerospace Engineering
 [AGRI] Agriculture, Fisheries & Forestry
 [AUDV] Audio, Audiovisual, Image & Video Tech
 [AUTO] Automotive & Road Vehicle Engineering
 [BLDG] Civil Engineering & Building Construction
 [CHEM] Chemical & Materials Technology
 [DATA] Computer Sci, Telecom & Broadcasting
 [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
 [MEDI] Medical Technology
 [METL] Metallurgy
 [MILI] Military Technology
 [MINE] Mining, Oil & Gas Extraction & Minerals
 [NANO] Nano Technology
 [PACK] Packaging & Distribution of Goods
 [PRNT] Printing & Paper
 [RAIL] Railway Engineering
 [SCIE] Optical Engineering
 [SPRT] Sports, Leisure, Tourism & Hospitality
 [TEXT] Textile & Clothing Industries
 [TRAN] Transportation

18 language combinations are available:

English-Chinese
 English-French
 English-German
 English-Japanese
 English-Korean
 English-Russian
 English-Spanish
 Chinese-English
 French-English
 German-English
 Japanese-English
 Korean-English
 Russian-English
 Spanish-English

Translate [\[Terms & conditions/User guide\]](#)

WIPO Translate NMT is a powerful instant translation tool, designed specifically to translate patent texts (now almost all languages are available using Neural Machine Translation technology). Simply cut and paste text from a patent document into the box below and select from the available language pairs, then click on "Translate" (Note that there is a limit of 2000 characters).

NOTE: WIPO Translate not be used for translating undisclosed patent information or other sensitive data as data transmitted via the translation tool is not encrypted

Text to be translated:

Language pair:

Domain: **C**

D

To use this tool:

A: Enter your text in the *Text to be translated* box;

- B: Select the *Language pair*. The system will automatically detect the language pair to be used if you do not select an option;
- C. Select the *Domain*. The system will automatically detect the domain if you do not select an option;
- D: Click the *Translate* button.

The result will appear as shown below:

The screenshot displays the WIPO Translate web interface. At the top, there is a text input field containing the English text: "polymers which can be used in p-type materials for organic devices and photovoltaic cells, compounds, monomers, dimers, trimers and polymers comprising formula (I) and/or formula (VIII) are prepared". Below this, the language pair is set to "English->Chinese (Neural MT)" and the domain is "CHEM-Chemical & Materials Technology". A "Translate" button is visible.

Below the input, a disclaimer states: "This automatic translation is provided for information only, it may contain discrepancies or mistakes and does not have any juridical value." It includes instructions: "Please hover your mouse over parallel segments of text", "Click to view other proposals", and "Select words or phrases on the left to access other translation proposals".

The main area shows the translated text in Chinese: "制备可用于有机器件和光伏电池的p型材料, 化合物, 单体, 二聚体, 三聚体和包含式(i)和或式(viii)的聚合物的聚合物". A red box highlights a segment of this text. A pop-up window titled "Choose among proposals, or edit the text" is open over this segment, showing several alternative translations for that specific part of the text.

At the bottom left, there are "Related links" including "WIPO Translate: Cutting-Edge Translation Tool For Patent Documents" and "Interested in your own version of WIPO Translate? Find out more".

The tool splits the text into different segments, highlighted in red. For each segment, it suggests alternative translations. The user can also edit the proposed translations.

WIPO PEARL

WIPO's multilingual terminology portal gives access to scientific and technical terms derived from patent documents. It helps promote accurate and consistent use of terms across different languages, and makes it easier to search and share scientific and technical knowledge.

Key features

- Developed by WIPO language experts and terminologists.
- 10 languages – Arabic, Chinese, English, French, German, Japanese, Korean, Portuguese, Russian and Spanish.

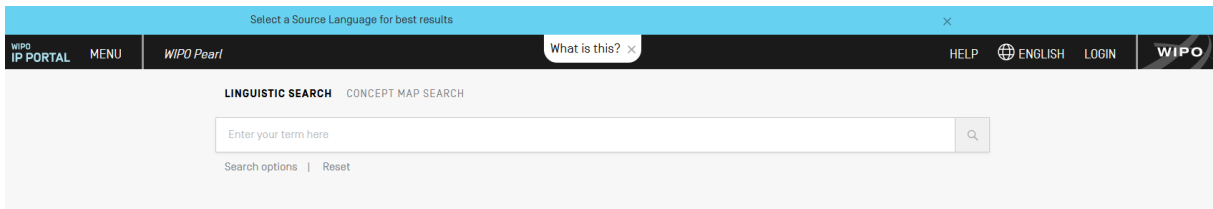
- All the content has been validated and given a term reliability score.
- If there is no equivalent in the target language in the database, WIPO's machine translation engine may offer you a translation proposal.
- Integrated with PATENTSCOPE so you can search the entire PATENTSCOPE corpus for terms and their equivalents in other languages.

Linguistic search

Search by term, with optional parameters. Select a Source Language for best results, and disable ad-blocking plug-ins.

More information on how to use it available here:

<https://www.wipo.int/reference/en/wipopearl/guide.html>



1 HITS for bicycle fork [Filters](#)

Source language All Target language All Subject field All

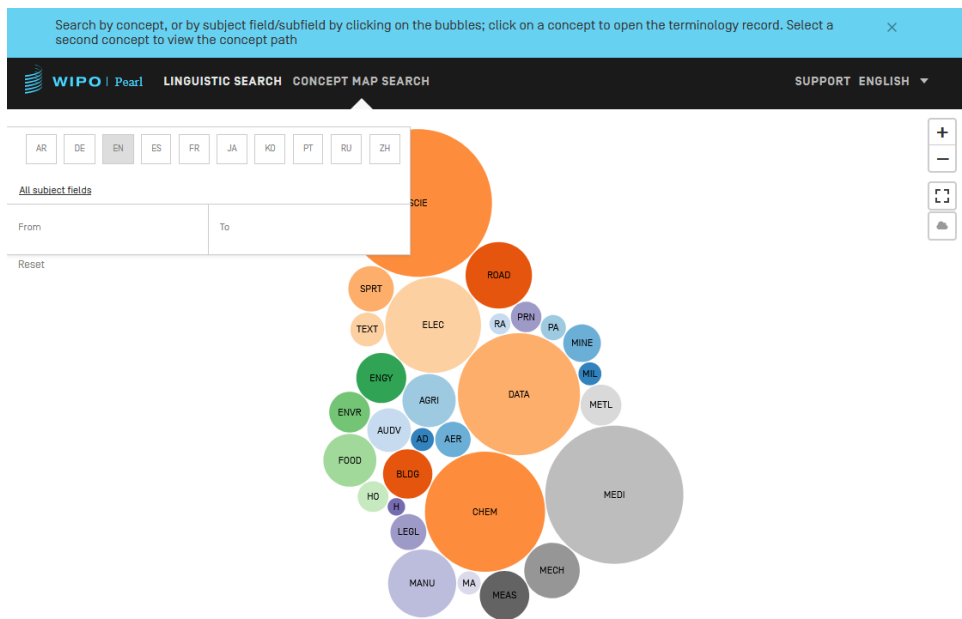
Terms [bicycle fork](#) (ROAD)...

ROAD / CYCLES & NON-POWERED VEHICLES [Show full record](#)

▶ DE › Fahrradgabel	Reliability 3 / 4	...
▶ EN › bicycle fork	Reliability 3 / 4	...
▶ ES › horquilla	Reliability 3 / 4	...
▶ FR › fourche de bicyclette	Reliability 3 / 4	...
▶ JA › フォーク	Reliability 3 / 4	...
▶ KO › 포크	Reliability 3 / 4	...
▶ PT › garfo	Reliability 3 / 4	...

Concept map search

Search by concept, or by subject field/subfield by clicking on the bubbles; click on a concept to open the terminology record. Select a second concept to view the concept path, and click on the "Export concept path" button to perform a combined keyword search in.



SETTINGS

Feedback Search Browse Tools **Settings**

SIMPLE SEARCH

Using PATENTSCOPE you can search 76 million patent documents including 3.6 million published international patent applications (PCT). Detailed coverage information can be found here
 PCT Publication 37/2019 [12.09.2019] is now available. The next publication date is scheduled as follows: Gazette number 38/2019 [19.09.2019].
[More](#)

Field: Front Page Search terms: electric bicycle

Query tab: Define the defaults for query language, the stemming option, the sorting of the results and the number of results to be included in the list.

SETTINGS

Reset Close Save

Query Office Result Interface Others

Query Language: All Sort by: Relevance List Length: 10

Stem

The Office tab: Select the patent collection/s for your patent searches.

Query	Office	Result	Interface	Others
-------	---------------	--------	-----------	--------

Office

All

- All
- PCT
- Africa
 - African Regional Intellectual Property Organization (ARIPO)
 - Kenya
 - South Africa
- ARABPAT
 - Egypt
 - Saudi Arabia
 - Jordan
 - Tunisia
 - Morocco
- Americas
 - Canada
 - United States of America
- LATIPAT
 - Argentina
 - Colombia
 - Dominican Republic
 - Brazil
 - Costa Rica
 - Ecuador
 - Chile
 - Cuba
 - El Salvador

The Result tab: Define the defaults for the language of the result list, the fields that will be displayed, the presentation of the results analysis, the groups to be included in the results analysis and the number of items in those groups. It also gives access to the document downloading option:

Query	Office	Result	Interface	Others
-------	--------	--------	-----------	--------

Result List Language Query Language	▼	Result List View All	▼
--	---	-------------------------	---

<input type="checkbox"/> Analysis tab open		Group by *
Analysis type Table	▼	<input checked="" type="checkbox"/> Countries
Analysis graph bar	▼	<input type="checkbox"/> Offices
No of Items/Group 32	▼	<input checked="" type="checkbox"/> Applicants
		<input checked="" type="checkbox"/> Inventors
		<input checked="" type="checkbox"/> IPC code
		<input checked="" type="checkbox"/> Publication Dates
		<input checked="" type="checkbox"/> Filing Dates

Download Fields
<input checked="" type="checkbox"/> Application Number
<input checked="" type="checkbox"/> Application Date
<input checked="" type="checkbox"/> Publication Number
<input checked="" type="checkbox"/> Publication Date
<input checked="" type="checkbox"/> Country Code
<input checked="" type="checkbox"/> Title
<input checked="" type="checkbox"/> Abstract
<input checked="" type="checkbox"/> IPC
<input checked="" type="checkbox"/> Applicants
<input checked="" type="checkbox"/> Inventors
<input checked="" type="checkbox"/> Image

<input checked="" type="checkbox"/> Enable multi documents download

The Interface tab: Select the default search interface, search field, patent collections, interface language, and color of the interface (skin). You can also select whether to activate Tooltip Help and IPC Help through this tab.

Query	Office	Result	Interface	Others
-------	--------	--------	-----------	--------

Default Search Form Simple	▼
-------------------------------	---

<input checked="" type="checkbox"/> Multiple Windows Interface	<input checked="" type="checkbox"/> Tooltip Help	<input checked="" type="checkbox"/> Instant Help
<input checked="" type="checkbox"/> Expanded Query	<input checked="" type="checkbox"/> IPC Tooltip Help	More info

The *Others* tab allows you to subscribe to notifications

Query	Office	Result	Interface	Others
-------	--------	--------	-----------	--------

Keep me informed

NAVIGATION BAR

The screenshot shows the top navigation bar of the WIPO IP Portal. It includes the WIPO logo, 'IP PORTAL', 'MENU', 'PATENTSCOPE', a 'What is this?' link, 'HELP', 'ENGLISH', 'LOGIN', and another 'WIPO' logo. Below the navigation bar, there are links for 'Feedback', 'Search', 'Browse', 'Tools', and 'Settings'. The main content area is titled 'SIMPLE SEARCH' and contains a search box with a dropdown menu set to 'Field Front Page' and a search button. Below the search box, there is a 'Query Examples' link. The search box contains the following text: 'Using PATENTSCOPE you can search 83 million patent documents including 3.7 million published international patent applications (PCT). [Detailed coverage information](#). PCT publication 07/2020 (13.02.2020) is now available [here](#). The next PCT publication 08/2020 is scheduled for 20.02.2020. [More](#). Check out the new PATENTSCOPE features: CPC, PCT families... [More](#). Help shape WIPO's newest IP service: Tell us what you think in this [short survey](#)'.

In the Navigation bar, you will find:

- The Help menu
- The language of your interface
- The login menu
- The WIPO button to access the WIPO website

HELP

In the Help menu, are available:

- the latest news about PATENTSCOPE are posted
- guides on how to search, query syntax , field definition and country codes
- the data coverage
- the terms and conditions as well as the disclaimer

HOW TO SEARCH

- [User's Guide](#)
- [PCT Families](#)
- [Query Syntax](#)
- [Fields Definition](#)
- [Tutorials](#)

PATENTSCOPE NEWS

- [New in PATENTSCOPE : Patent Families And More](#) (Feb 4, 2020)
- [Tell Us What You Think of PATENTSCOPE!](#) (Sep 24, 2019)
- [New in PATENTSCOPE: Chemical Sub-Structure Search](#) (Sep 19, 2019)
- [The New PATENTSCOPE Interface](#) (Sep 18, 2019)
- [Webinar On Upcoming New PATENTSCOPE Interface](#) (Sep 9, 2019)

DATA COVERAGE

- [PCT applications](#)
- [PCT national phase entry](#)
- [National collections](#)
- [Global Dossier public](#)

CODES

- [INID codes](#)
- [Kind codes](#)
- [Country Code](#)

ABOUT

- [Terms And Conditions](#)
- [Disclaimer](#)

LANGUAGES

The language of the interface can be selected from the drop-down menu English:

Or from your account once logged-in

PATENTSCOPE What is this? x HELP **ENGLISH** LOGIN **WIPO**

Feedback Search Browse

SIMPLE SEARCH

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Check out the new PATENTSCOPE features: CPC, PCT families.... [More](#)

Help shape WIPO's newest IP service: Tell us what you think in this [short survey](#)

Search terms...

- ENGLISH
- FRANÇAIS
- DEUTSCH
- ESPAÑOL
- PORTUGUÊS
- РУССКИЙ
- 日本語
- 中文
- 한국어
- عربي

PATENTSCOPE What is this? x HELP 🔔 🏠

Feedback Search **MY ACCOUNT**

SEARCH

You can search 83 million patent documents including 3.7 million published international patent applications. [Get more information](#)

The next PCT publication 08/2020 (20.02.2020) is now available [here](#). The next PCT publication 09/2020 is scheduled for 27.02.2020. [More](#)

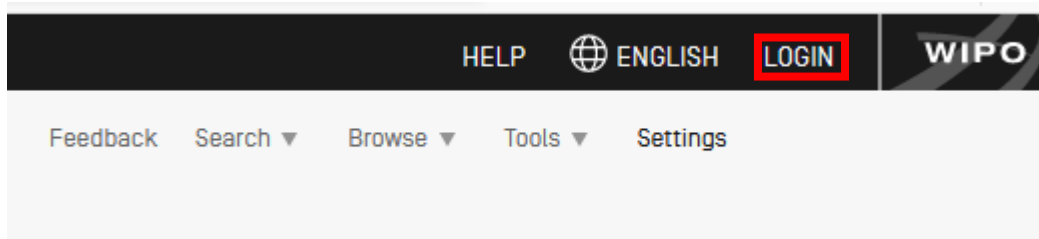
Check out the new PATENTSCOPE features: CPC, PCT families.... [More](#)

Help shape WIPO's newest IP service: Tell us what you think in this [short survey](#)

Search terms...

- ENGLISH
- ENGLISH
- FRANÇAIS
- DEUTSCH
- ESPAÑOL
- PORTUGUÊS
- РУССКИЙ
- 日本語
- 中文
- 한국어
- عربي
- SESSION QUERIES
- SAVED QUERIES
- LOGOUT

LOGIN



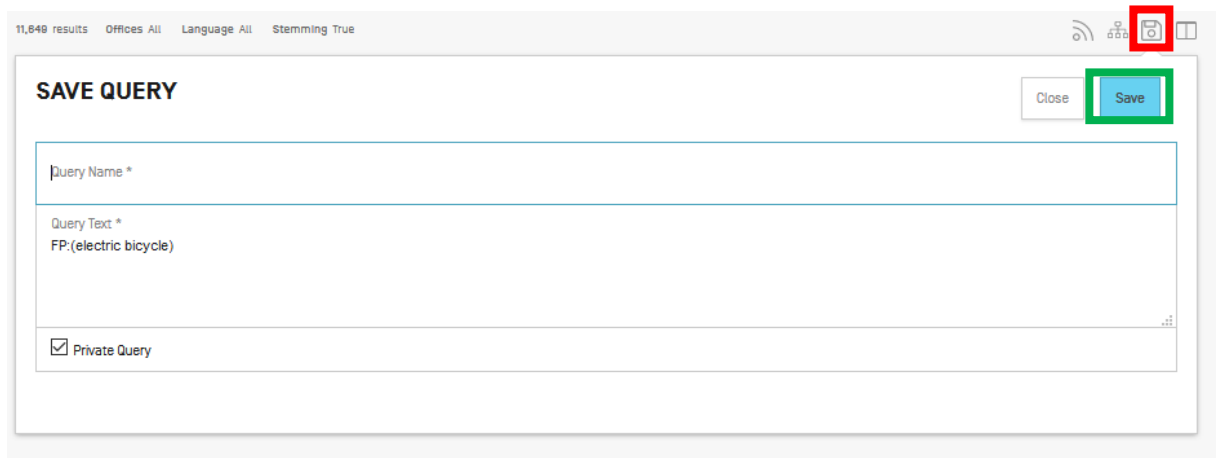
Account Sign up

Provide the mandatory information (*) in order to create your free-of-charge PATENTSCOPE account.

Login

Once logged into the WIPO account, new icons will be available in the refine search box that will allow users to

1. Save their queries :



After clicking this icon (in the red rectangle above), users will be asked to give a name to their query in this dialog box

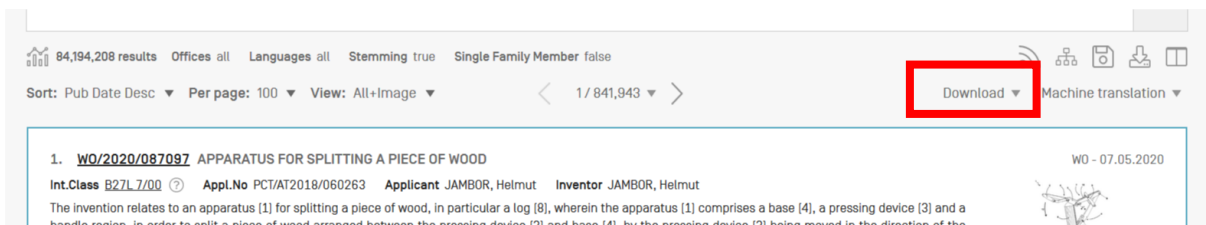
By default, your saved queries are *Private* that means that only you, when logged-in, can see them. You cannot share them or subscribe to the RSS feed.

If you would like to share your queries and use RSS feed you need to untick the *private Query* box and you will be able to share them and subscribe to RSS feed.



1	EN_ALL:"human space flight" OR "manned space flight" OR "crewed space flight" OR "human spaceflight" OR "manned spaceflight" OR "crewed spaceflight"	All	Relevance	<input checked="" type="checkbox"/>	1	10	<input checked="" type="checkbox"/>			
chem search	CHEM:(BNRN XUZR GQAQC-UHFFFAOYSA-N)	WO	Relevance	<input checked="" type="checkbox"/>	1	10	<input type="checkbox"/>			
bicycle	en_ab:bicycle	All	Pub Date Desc	<input type="checkbox"/>	1	10	<input type="checkbox"/>			
cat	ALLTXT:(cat) AND IC: ("A23K 50/40" OR "B62B 9/14" OR "A63H 13/02" OR "B32B" OR "B65D")	All	Relevance	<input checked="" type="checkbox"/>	2	10	<input type="checkbox"/>			

2. Download the result lists up to 10,000 records using the *Download* button above the result list. After clicking the icon, the downloading will automatically start and open an Excel sheet with either 1000 (simple icon) result or 10,000 (icon 10k).



84,194,208 results Offices all Languages all Stemming true Single Family Member false

Sort: Pub Date Desc Per page: 100 View: All+Image < 1 / 841,943 >

Download Machine translation

1. [WO/2020/087097](#) APPARATUS FOR SPLITTING A PIECE OF WOOD WO - 07.05.2020

Int.Class B27L 7/00 Appl.No PCT/AT2018/060263 Applicant JAMBOR, Helmut Inventor JAMBOR, Helmut

The invention relates to an apparatus (1) for splitting a piece of wood, in particular a log (8), wherein the apparatus (1) comprises a base (4), a pressing device (3) and a handle portion, in order to split a piece of wood arranged between the pressing device (3) and base (4) by the pressing device (3) being moved in the direction of the

3. Download one or more documents by selecting in the *Settings* menu, in the *Result* tab, the *enable multi document download* can be activated for logged-in users in order to download one or more documents.

SETTINGS Reset Close Save

Query Office **Result** Interface Others

Result List Language Query Language Result List View All/Image

Analysis tab open

Analysis type Table

Analysis graph pie

No of Items/Group 50

Group by *

Countries

Offices

Applicants

Inventors

IPC code

CPC codes

Publication Dates

Filing Dates

Download Fields

Application Number

Application Date

Publication Number

Publication Date

Country Code

Title

Abstract

IPC

Applicants

Inventors

Priority Data

International Phase Entries

Enable multi documents download

- Once logged-in, users will also have access to the chemical structure search in the *Search* menu, as well as Save their preferred settings, such as the search interface by default, the length of the search result list, etc. in the *Options* menu.

ANNEX

SEARCH SYNTAX

The search syntax allows you to search for specific information in the advanced search. A query is a logical sentence that consists of elements joined by special symbols called operators used to define the relationship between words or groups of words.

An “element” can be:

- a single term (“engine”);
- a phrase (a group of words surrounded by quotes to search for multiple words in exact order: “magnetic cup”); or
- several of these grouped together with parentheses.

List of operators supported in the PATENTSCOPE search service:

Operators	Example	Explanation
BOOLEAN		always use in capital
AND	train AND plane	Returns all documents that contain both the first term and the second term.
OR	train OR plane	Returns all documents that contain either the first term or the second term or both.
NOT	NOT plane	Returns all documents that do not contain the term following NOT .
ANDNOT	train ANDNOT plane	Returns all documents that contain the first term and not the term following NOT .
WILDCARD		
?	te?t	Returns all documents that contain test or text. <u>Wildcard search</u> uses ? to search terms with one single character replaced. It is possible to use for example 2 ? to replace 2 characters
*	electr* elec*try	Returns all documents that contain electric, electric s, electric al, electric ity. Returns all documents that contain electric ity. <u>Wildcard search</u> uses * to search terms with 0 or more characters replaced either in the middle of the term or at the end of the term (* as the 1 st character of the term is not supported).
OTHERS		
^	power^10 nuclear	Returns all documents in which “power” is considered to be more relevant (10 times in the example) than “nuclear”. The caret assigns importance values to individual query terms.
+/-	+electric -power	Returns all documents that contain electric and that do not contain power <u>Filtered searching</u> allows to require (+) a query term and to prohibit (-) one.
~	roo~	<u>Fuzzy search</u> returns all documents that contain room, roof, root, etc.
()	(spaghetti OR plate) AND fork	Returns all documents that contain spaghetti or plate and fork. <u>Grouping</u> is used to group clauses to form sub-queries.
~/NEAR	“heart monitoring”~10 Heart NEAR monitoring	<u>Proximity search</u> allows specifying a distance between words. In the example with tilde “heart” and “monitoring” are separated by 10 other words; NEAR separates words by 5 words by default

[]	[01.01.2000 TO 01.01.2001]	Returns all documents that contain dates between 01.01.2000 and 01.01.2001. Range search uses [] to include the bounds.
{ }	{Smith TO Townsend}	Returns all documents that contain names between Smith and Townsend, but not including Smith and Townsend. Range search uses { } to exclude the bounds.

FIELD CODES

Field codes are used in the Advanced Search interface to limit your search to specific fields. For example:

To search for documents that contain the terms “precipitated calcium carbonate”, “carbon dioxide”, and variants of the word inject (using a wildcard operator) in any English text and belong to the fields of technology of papermaking or cellulose production, as represented by the IPC subclass D21, you can use the query:

```
EN_ALLTXT:(“precipitated calcium carbonate” AND “carbon dioxide” AND inject*) AND IC:D21
```

The EN_ALLTXT field code represents a combination of the English title, abstract, description, and claims fields, while the IC field code represents the International Patent Classification field. You should use parentheses (brackets) to enclose all search terms for a given field; and make sure not to put any spaces between the field code and the brackets!

The list of supported field codes in the PATENTSCOPE search service is available here: <https://patentscope.wipo.int/search/en/help/fieldsHelp.jsf>