

Patent Research and Analysis

PATENTSCOPE

Cynthia Barcelon-Yang, Ellen Krabbe, Steve Sampson, Sam Savanich



Overview and Coverage

The PATENTSCOPE database provides access to international Patent Cooperation Treaty (PCT) applications in full text format on the day of publication, as well as to patent documents of participating national and regional patent offices. The information may be searched by entering keywords, names of applicants, international patent classification and many other search criteria in multiple languages.

Using PATENTSCOPE you can search 74 million patent documents including 3.5 million published international patent applications (PCT) and increasing. Detailed coverage information can be found at

https://patentscope.wipo.int/search/en/help/data_coverage.jsf

PATENTSCOPE has a number of unique and interesting tools for the curious searcher.

For example, there is a [New Chemical Structure Search functionality](#) whereby you can **search by chemical structure** and all representations of chemical structure are standardized into InChIKey.

Developed in-house and trained on patent corpuses, the **CLIR (Cross-Lingual Information Retrieval)** tool first finds variants and synonyms of your keywords and then translates those found synonyms and the keywords into more than a dozen languages. See page 3 for more information.

Browse by Week allows you to browse PCT applications by week and includes analysis of PCT applications by International Patent Classification (IPC) code.

There is also a **Sequence Listing** of published nucleotide and/or amino acid sequence listings contained in published PCT applications.

The **IPC Green Inventory** is a list of IPCs associated with Environmentally Sound Technologies (ESTs) as listed by the [United Nations Framework Convention on Climate Change \(UNFCCC\)](#).

The **Portal to Patent Registers** facilitates the verification of legal status of patents at national registers.

WIPO Translate will translate any patent documents.

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

Many options may be configured to customize your search queries and results.

Having a PATENTSCOPE account enables you to:

- Save your customized configuration.
- Save your queries.
- Download result lists (up to 10,000 records).
- Search chemical structures

When searching chemical structures, the following may be searched.

- Stereoisomer
- Monomer
- Enantiomer
- CAS number

The following cannot currently be searched.

- Polymer, poly(vinyl alcohol)
- Inorganic cluster
- Metal-organic framework
- Transformable into InChI reactions
- Reaction search
- DNA sequence listing



An **RSS icon** appears on the search results page. Clicking on the icon takes you to a page from which you can either: copy and paste the URL into your RSS reader or add the search to popular web-based readers using the buttons provided. Once this is done, the search results will be automatically updated in your RSS reader every Thursday, when new PCT applications are published.

WIPO Pearl is a multilingual terminology portal that provides access to scientific and technical terms derived from patent documents. **WIPO Translate** was developed in-house, trained on parallel patent corpuses and recently upgraded to neural technology. It is accessible through PATENTSCOPE.

Landing page

1. Search type: simple, advanced, field combination, cross lingual expansion, chemical structure
2. Browse PCT by week, sequence listing, IPC green inventory, portal to patent registers, Gazette archive, national phase entries
3. WIPO translate and WIPO pearl
4. News includes recent updates or changes
5. Login and Account sign up
6. Options allows your personal configuration to be saved if you have an account
7. Selection of where to search in the document record

Simple search terms full text: portable solar usb charger = 8,262 results
Advanced search: All:(charger AND portable AND solar AND (USB OR "universal serial bus")) = 8,570 results

Results list

8. Number of results
9. Search criteria
10. Refine search box
11. RSS feed to receive updated search results every Thursday
12. Query tree and save query
13. Download result list and download large result list
14. Down arrow next to user name when logged in give access to user functions: session queries, saved queries, save current interface, log out
15. User search options
16. Sort options

Int.Class	Appl.No	Applicant	Ctr	PubDate	Inventor	Image
1. 20180294534	Solar USB Charger		US	11.10.2018		
H01	15936067	Anthony Dean Sala			Anthony Dean Sala	

A solar USB charger for providing power to electrical devices from solar energy without the use of an internal battery is described. The charger includes one or more solar cells, an electronic circuit and a means to connect the solar USB charger to the electrical device that needs to be charged. An auto reset feature within the charger helps to correct for passing clouds or other factors that reduce the charger's output. The charger has a durable and simple low profile folding design that protects the solar cells from impact or scratching when the device is not in use.

17. Viewing options
18. List length
19. Machine translation
20. Side-by-side view permits viewing list and individual records
21. Link to individual record
22. Bibliographic information
23. Abstract
24. Image (click to enlarge)
25. Highlighting of key words
26. Statistical information

Patent document view

1. Previous – Back to Results List - Next
2. Machine translation (WIPO Translate, Google Translate, Bing/Microsoft Translate, Baidu Translate)
3. Document number and Title

4. Maximize view
5. Document section tabs
6. Permalink or bookmark the record for future reference
7. Click on image to enlarge

The screenshot shows the patent document view for '1. (US20180294534) Solar USB Charger'. The interface includes a search bar at the top, navigation tabs for 'National Biblio. Data', 'Description', 'Claims', 'Drawings', and 'Documents'. The 'Description' tab is active. The document details include: Application Number: 15938067, Application Date: 26.03.2018, Publication Number: 20180294534, Publication Date: 11.10.2018, and IPC Class: H01M 10/46. The abstract describes a solar USB charger with an auto reset feature and a protective design. A circuit diagram is shown on the right side of the document.

Advanced Search: Field Combination

This allows a variety of fields to be searched using AND / OR statements

Advanced Search: Expanded Query

Key terms are entered then click on "expand query" to see synonyms or common variations. The search may be performed on these terms.

The Field Combination tool allows users to search across multiple fields. The 'Front Page' section is expanded, showing fields such as WIPO Publication Number, Application Number, Publication Date, English Title, English Abstract, Applicant Name, International Class, Inventor Name, Office Code, English Description, English Claims, Inventor Name, and Licensing availability. Each field has a dropdown menu to select the search operator (AND/OR) and a search box. The language is set to English, and the 'Stem' option is checked.

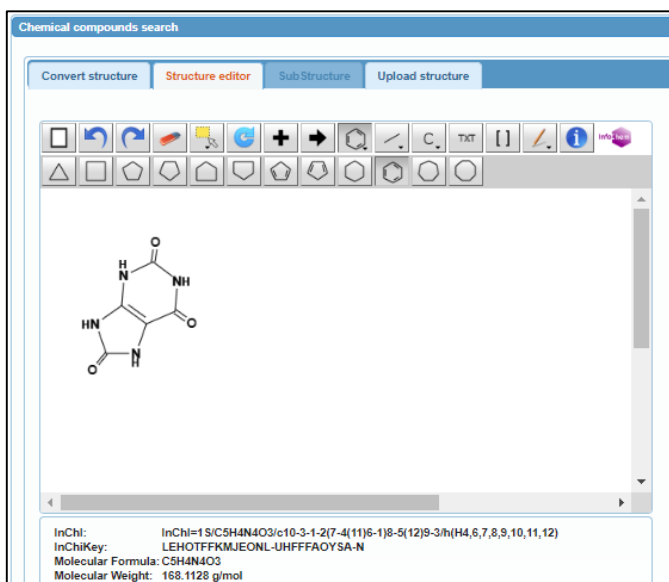
The Advanced Search tool shows a search for 'portable solar USB charger'. The expanded query is displayed as: ("portable solar" AND "usb charger") OR (("hand held" OR portable) AND solar AND "usb charger") OR ("portable solar" AND "usb AND charger") OR (("hand held" OR portable) AND solar AND "usb AND charger"). The search is performed in English.

CLIR or Cross Lingual Expansion:

A term may be entered along with domains of use to obtain related or synonymous terms. There is the option of selecting terms and obtaining translations of those terms. A multilingual text and IPC search may then be performed.

The Cross Lingual Expansion tool shows the term 'charger' with various synonyms and translations. The 'Domains' are set to ELEC, MECH, and MANU. The tool provides a list of related terms such as 'charger', 'boost', 'supercharging', 'charger', 'booster', 'multifield', and 'turbocharging'. The user can select terms and translate them.

The search results for 'charger' show a list of related terms and translations in multiple languages. The results include terms like 'charger', 'boost', 'supercharging', 'charger', 'booster', 'multifield', and 'turbocharging'. The results are displayed in a list format with checkboxes for selection.



Chemical compounds search

You can search by exact chemical structure and all representations of chemical structure are standardized into InChIKey. [A New Chemical Substructure Search functionality](#) was launched in December 2018. Substructure search identifies elements embedded within larger structures allowing retrieval of substances with substitutions at open valence positions.

The chemical compounds search begins by entering a compound name, INN, InChI or SMILES. The compound may either be searched directly or shown in the structure editor as seen above. Modifications may be made to the structure or a new structure may be defined using the editor features.

A search may then be performed for the exact structure or the chemical structure as a substructure.

There is also a feature for uploading or drawing the structure from either a structure file (MOL) or image file (PNG, GIF, TIFF, JPEG).

Additional Information

WIPO Resources

- [Video tutorials](#)
- [PATENTSCOPE User's Guide](#)
- [WIPO Translate](#)
- [Data services](#)
- [External databases](#)
- [Webinars](#)
- [Frequently asked questions](#)

Results Manipulation

In list view

- **Sort by:** relevance, publication date descending, publication date ascending, application date descending, or application date ascending.
- **View:** simple, All, All+image, Image
- **Query Tree:** when you click on the query tree icon, the system parses your last query, decomposes your query in sub-clauses and executes each sub-clause one by one, letting you know the associated number of intermediate results.
- **Save query** in order to view them in another session.
- **Download results:** downloads about 100 results
- **Download 10K:** downloads up to 10,00 results

Logged in User Options

As a registered and logged in user you can view the following.

- **Sessions queries:** list of searches performed in a session
- **Saved queries:** once saved, this permits re-running a query
- **Chemical compounds search:** log in to access the chemical compound search

Save current interface options is available in the user drop-down list.

Privacy and Security

During the free registration process, you may be required to supply an e-mail address and demographic information (address, country, zip code). WIPO also logs IP addresses, or the location of your computer on the Internet, for systems administration, statistical and troubleshooting purposes.

Third parties: WIPO will not provide personal information about you supplied electronically as an individual subscriber to any third party without your consent.

Aggregate disclosure only: WIPO will disclose information supplied electronically to third parties only in aggregate form.

PATENTSCOPE is an https secure site.

For additional information, see [WIPO Terms of Use](#).

IPO Search Committee Suggested Best Practices For Protecting Your Patent Search Information

When using free search tools on the Internet, consider the following tips:

1. Only search on encrypted (HTTPS) sites
2. Delete your browser history after you have finished, or search in an "incognito window"
3. Store your search notes on your computer's encrypted hard drive, or in the Cloud

Copyright © 2019 Intellectual Property Owners Association. This report was written by the IPO Patent Search Committee to provide background to IPO members. It should not be construed as providing legal advice or as presenting the views of IPO.