

Patent Research and Analysis

The Lens

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Overview and Coverage

What is the Lens?

The Lens is an open global cyberinfrastructure serving nearly all of the patent documents in the world as open, annotatable digital public goods that are integrated with scholarly and technical literature along with regulatory and business data. The Lens will allow document collections, aggregations, and analyses to be shared, annotated, and embedded to forge open mapping of the world of knowledge-directed innovation.

Patent datasets

The European Patent Office's DocDB from 1907
USPTO Applications from 2001 – present, full text and images
USPTO Grants from 1976 – present, full text and images
USPTO Assignments
European Patent Office (EP) Grants from 1980, full text, images
WIPO PCT Applications from 1978, full text and images
Australian Applications and grants from 1917, full text

Features

Search & Analysis in Addition to Patents

- **Scholarly Search & Analysis** - non-patent literature (NPL) and other scholarly works searching in PubMed, Crossref and Microsoft Academic (more than 194 M works). This feature also allows viewing of citing patents.
- **PatCite:** Explore cited works/citing patents and their linkages
- **In4M: Ranking Institutional Influence** - International Innovation and Industry Influence Mapping (In4M) metrics based on documents from PubMed and Crossref
- **PatSeq: Exploring Biological Sequences in patents** – enables access to patents disclosing genetic sequences and bulk downloads of disclosed sequence data based on jurisdiction, document type, and either sequence type or sequence location.

Institutions Behind the Lens

[Cambia](#)
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[National Information and Communication Technology Australia \(NICTA\)](#)
[Bill & Melinda Gates Foundation](#)
[The United States Patent and Trademark Office \(USPTO\)](#)
[Gordon and Betty Moore Foundation](#)
[The Lemelson Foundation](#)
[Qualcomm Incorporated](#)

For those who like structured searches

The Lens allows you to select fields to be searched. They include:

Lens Id
Pub Key
Kind
Pub Num
Pub Year
Title
Abstract
Inventor
Owner
Full Text
Claims
Classification Ipcr
Classification Nat
Classification Cpc
Cites Patent Pub Key
Cites Patent Count

It should be noted that an assignee field is not present; however, the "Applicants" field selection provides similar search results. "Owners" field is specifically US assignment data that is used to supplement the EPO-derived Applicant as published data. The Lens also provides links to global patent status information using OPS of the EPO as default.

With respect to **document types**, The Lens organizes its collection by nine different document types.

Patent Application, Granted Patent, Limited Patent, Search report, Amended Patent, Design right, Abstract, Amended Patent, and Plant patent.

Persistent identifiers

Lens ID, is a 15 digit identifier for each patent record.

Work Area

With an account, the user may benefit from the Lens "Work Area" functions such as:

Search History, Saved Queries, Collections, Notes, Tags, Inventorship, Sequence Bulk Download

Personalize the Lens for your own projects:

- Save your collections, queries and notes persistently across computers
- Save notes against documents, document collections and queries
- Create collections to organize your data
- Share your documents, collections and queries
- Export and publish your collections
- Receive alerts on your searches

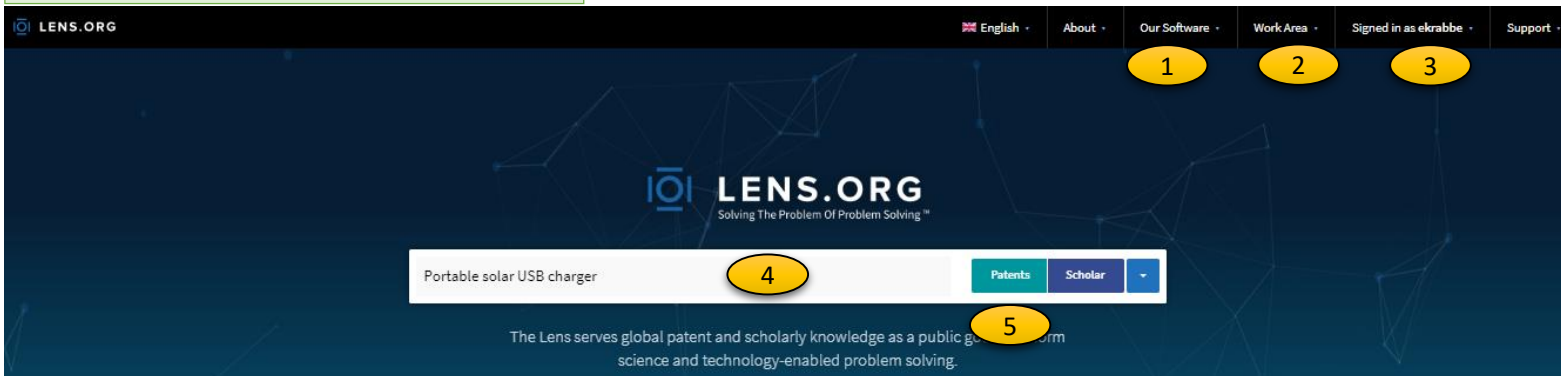
LinkedIn® and ORCID® integration for inventorship

Landing page

1. Search options: patents, scholarly works, PatSeq, PatCite, QUTIn4M
2. Guest or User tools
3. Account register and Sign in
4. Simple search
5. Structured search option

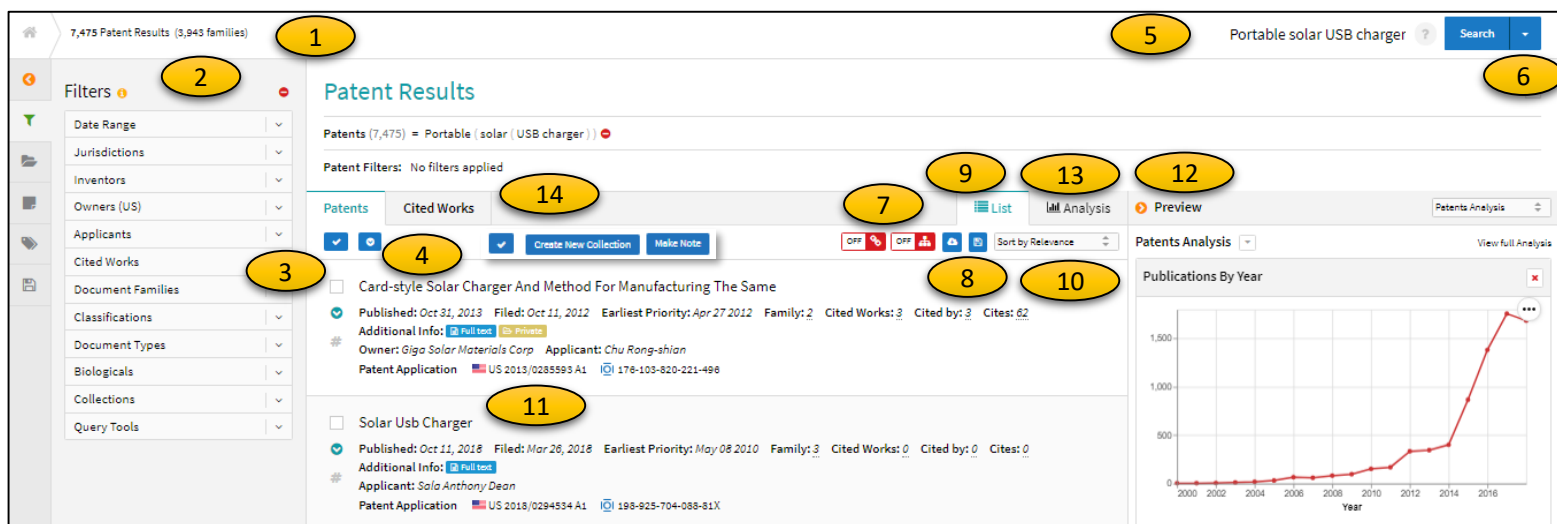
Basic search terms: portable solar usb charger = 7,299 patent results (3,883 families)
Structured search: portable AND solar AND usb AND charger = 7,299 patent results
Structured search: portable AND solar AND (usb OR "universal serial bus") AND charger = 7,543 (3,872 families)

Note: operators AND, OR and NOT must be in all caps.



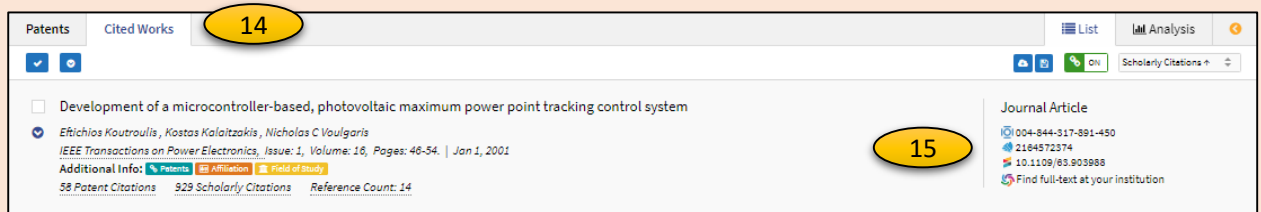
Search results list (Patents Tab)

1. Number of results and number of families
2. Sidebar with rapid access to filters, collections, notes tags, saved queries; filters provide numerous options to refine the search; use down arrows to view options and you can include or exclude a filter
3. Click on the check box for a record or at the top to see All Results or Page Results, this opens the option to create a collection of documents of interest for later review
4. Expanded view: click down arrow at the top for all or next to "Published" for a record
5. Refine the search by changing search terms
6. New search or structured search
7. Options: only patents citing NPL and Group by simple families (When grouping is ON, one member of a simple family is seen)
8. Export results; Save query
9. Summary Table view
10. Sort options: rank, publication, filing, cited, sequences or family
11. Click on title or document number for details
12. Analysis Preview; click orange arrow to preview or hide
13. Full analysis tab
14. Tab to see cited works / NPL
15. Links to article sources. Open source copies of documents may be found with certain links. Others use Open URL links to the WorldCat registry for access to a full text version, either by payment or through your institution/corporation.



Cited Works Tab

This tab will provide information such as patents, affiliation, field of study, links.



Patent document view

1. Checkbox to add a document of interest to a collection; when checked it opens options to create a collection, add, remove or make a note
2. Tabs to parts of document: summary & full text
3. Cited scholarly works, forward and backward citations
4. Family and legal information
5. Notes can be added either in Notes section or click on the paper clip for each section
6. Download PDF
7. Document preview; click to open in a new tab
8. Document history
9. Key search terms highlighted

The screenshot shows the patent document view for 'Modular Portable Energy System'. The interface includes a navigation bar with tabs for Patent Summary, Full-text, Citations, Family Info, Legal Info, and Notes. The main content area displays the abstract and claims. On the right side, there are sections for Patent Application, Download PDF, Document Preview, and Document History. Numbered callouts (1-9) highlight specific features: 1 (checkbox), 2 (tabs), 3 (citations), 4 (family/legal info), 5 (notes), 6 (download PDF), 7 (document preview), 8 (document history), and 9 (highlighted search terms).

Work area

By clicking on "Work Area", the page below opens if you are signed into an account

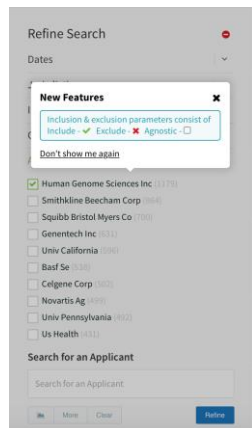
1. Searches Tab
2. Search history to review and save searches
3. Save Queries: searches that can be run again
4. PatSeq Finder History: saved queries
5. PatCite History
6. Collections: to gather, import/export documents of interest
7. Notes: can be added to documents from the search
8. Tags: can be added to documents from the search result page to assist in organizing documents
9. Inventorship: allows recording inventorship in the popup dialog for your name in "Inventors" sections. This allows other users to see your profile from ORCID or LinkedIn.
10. Sequence bulk download enables you to download more than 300 M sequence listings extracted from full-text patent documents, megafiles, and public databases in FASTA format.
11. Key information and tools for each of the tabs; For Search History - #results, dates, save functions, delete; for Collections – edit title or description, share, upload, download, view in PatCite, delete; for Notes and Tags – edit and delete

The screenshot shows the 'Search History' page. The top navigation bar includes Profile, Search History, and a search input field. Below the navigation bar, there are tabs for Searches, Collections, Notes, Tags, Inventorship, and Sequence Bulk Download. The main content area displays a table of search history entries. Numbered callouts (1-11) highlight specific features: 1 (Searches Tab), 2 (Search History table), 3 (Saved Queries), 4 (PatSeq Finder History), 5 (PatCite History), 6 (Collections), 7 (Notes), 8 (Tags), 9 (Inventorship), 10 (Sequence Bulk Download), and 11 (Search History table details).

Results Manipulation

Refine your search within a set of results by using the selection options on the left or by clicking on the “Graphical Analysis”. Facets/Graphs include:

- Date Range
- Jurisdictions
- Inventors
- Owners (US)
- Applicants
- Cited Works
- Document Families
- Classifications
- Document Type
- Biologicals
- Collections
- Query tools



Functionalities include the ability to “include”, “exclude”, “ignore” various parameters within your set of results

Privacy and Security

Website Visitors

According to the Lens.org, all browsing data and email information is used for internal improvements and account functions. The Lens does not sell data.

The Lens is an https secure site.

For additional information, see The Lens [Terms of Use](#) and [Privacy Policy](#).

Additional Information from the Lens

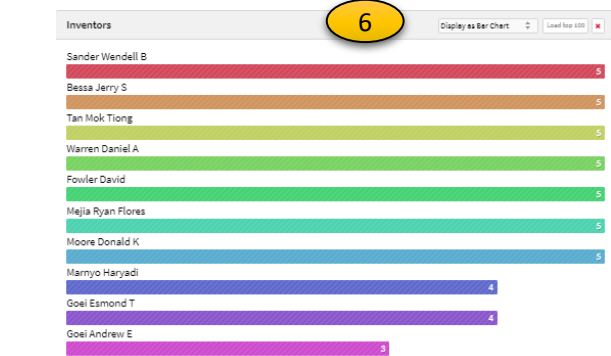
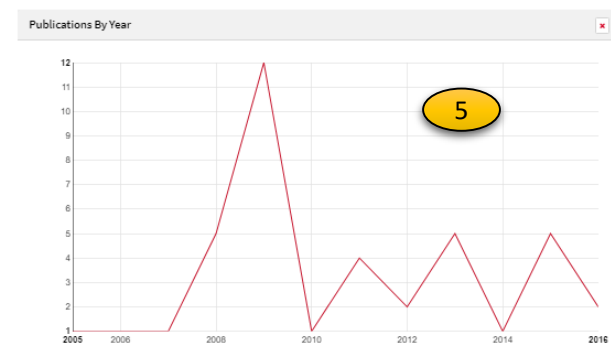
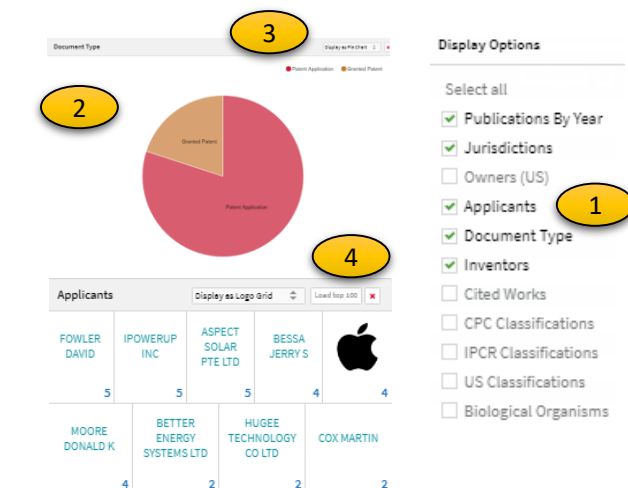
Help Resources

- [Video tutorials](#)
- [Basic Help](#)
- [Search Results](#)
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- [Advanced Document Views](#)
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- [Biological Tools](#)
- [Patent Sequence Tools](#)
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Knowledge Database

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- [Continuity](#)
- [Patent Rights](#)
- [Other Articles](#)
- [Around the World](#)
- [Biological](#)
- [Applied Knowledge](#)
- [Developer Resources](#)

Analysis Charts



1. Chart options
2. Document type
3. Chart type – pie chart or bar chart
4. Applicants with display and number options
5. Publications by year
6. Inventor with display and number options

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 (this protects against eavesdroppers on WiFi networks)
2. Delete your browser history after you have finished, or search in an “incognito window” (to prevent information access in the event of computer theft)
3. Store your search notes on your computer’s encrypted hard drive, or in the Cloud (to prevent information access in the event of computer theft)