
Patentcloud®
PS Patent Search

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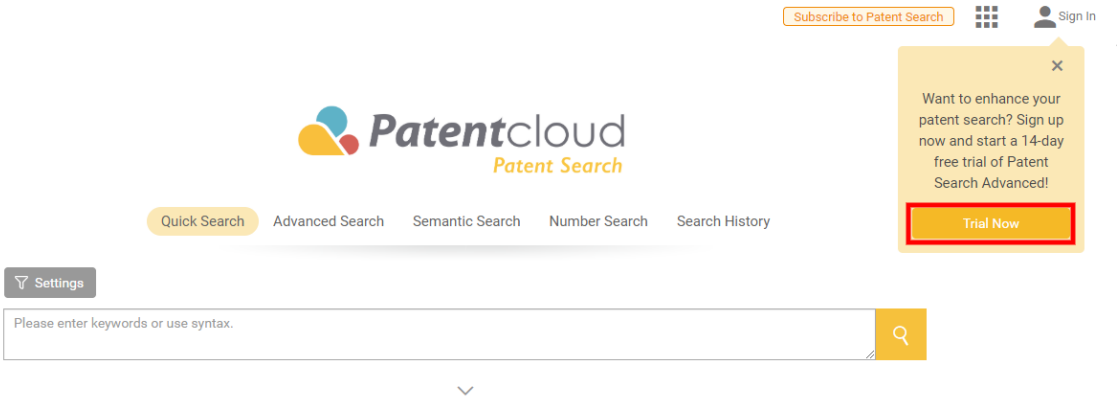
Registration& Subscription

Account Registration/ Maintenance

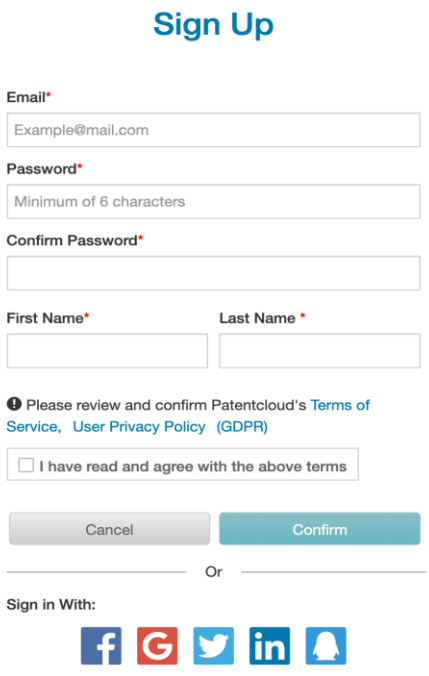
Before you can start to use Patentcloud, you must first create and register for an account. Go to the Patentcloud platform, and click on the **Trial Now** button to start your account registration process.



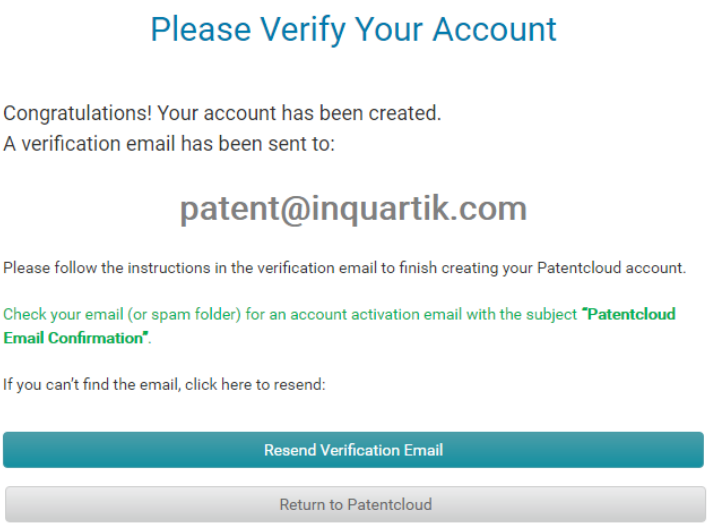
Fill out the form as seen below. Enter your:

1. Email address
2. Password
3. Reenter your password to confirm it
4. Your first and last name

Then, click on **Confirm** to submit your registration. You can also register using social media platforms, such as Facebook, Google, Twitter, LinkedIn, and QQ.

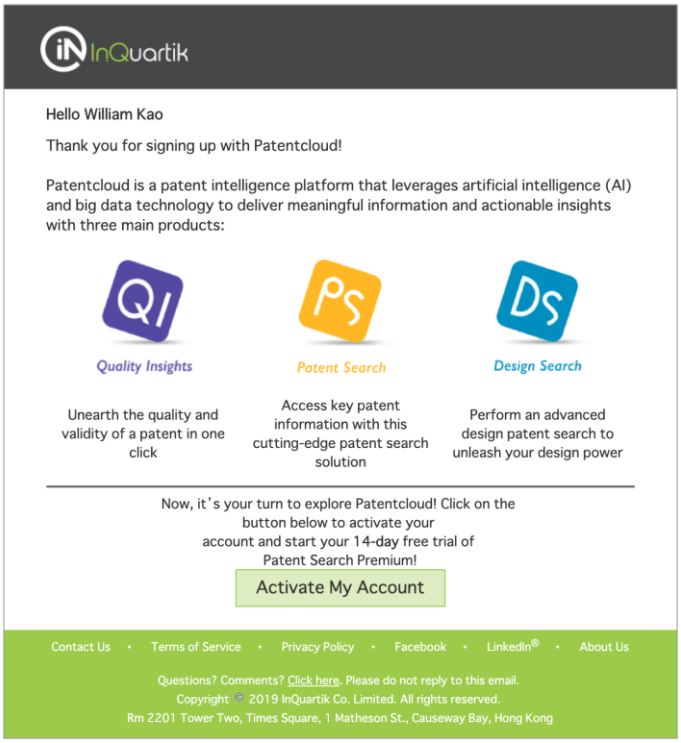


A verification email will then be sent to your email address. If you do not receive this email within 10 minutes, please click on the **Resend Verification Email** button to resend a verification email.



If you do not receive the verification email, please check your Spam or Junk folder in your mailbox. Otherwise, go to the URL https://app.patentcloud.com/re-active.html, enter the email address for your account, and a new verification letter will be sent to you.

Once you have received the verification email, click on **Activate My Account** to activate. Now you can sign in to Patentcloud with your registered email address.



After clicking on **Activate My Account**, you will see a new window with **Account Activation Successful**.

Account Activation Successful.

Your account has been activated.
You may now sign in and get started with Patentcloud!

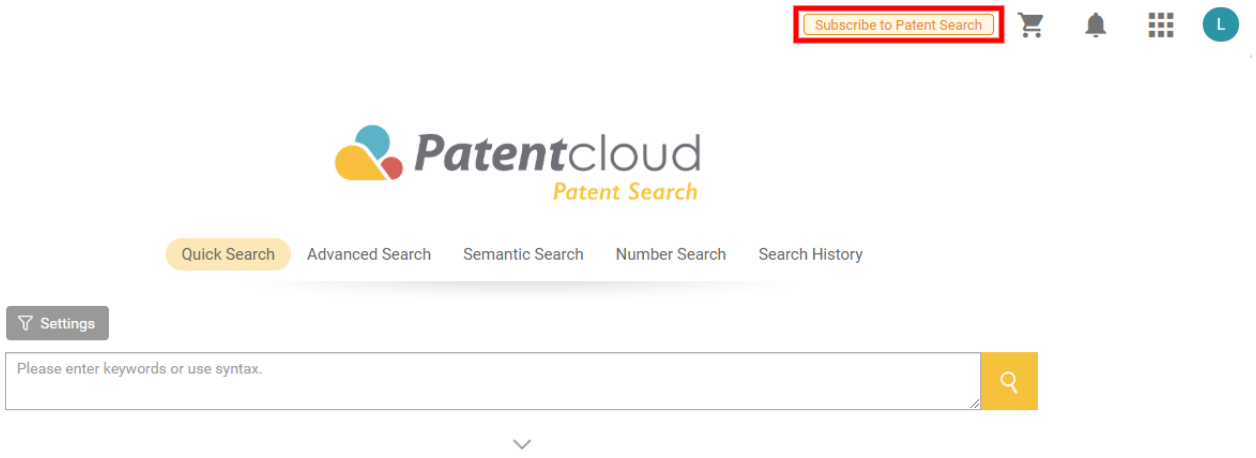
Return to Patentcloud

Patent Search Subscription

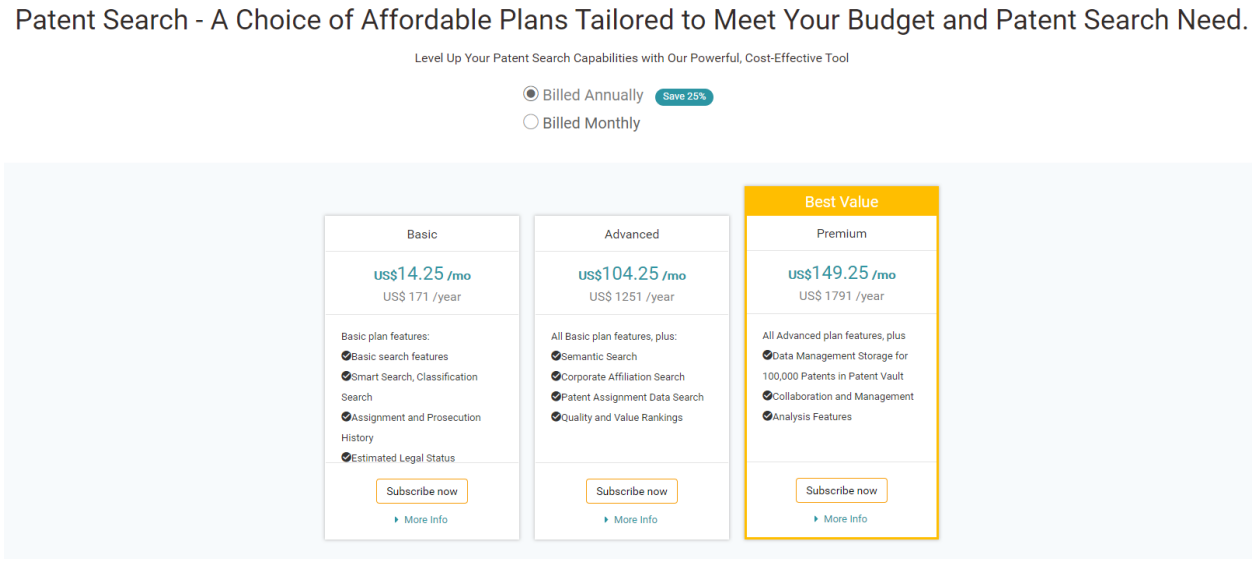
To subscribe to Patent Search, please follow the steps below:

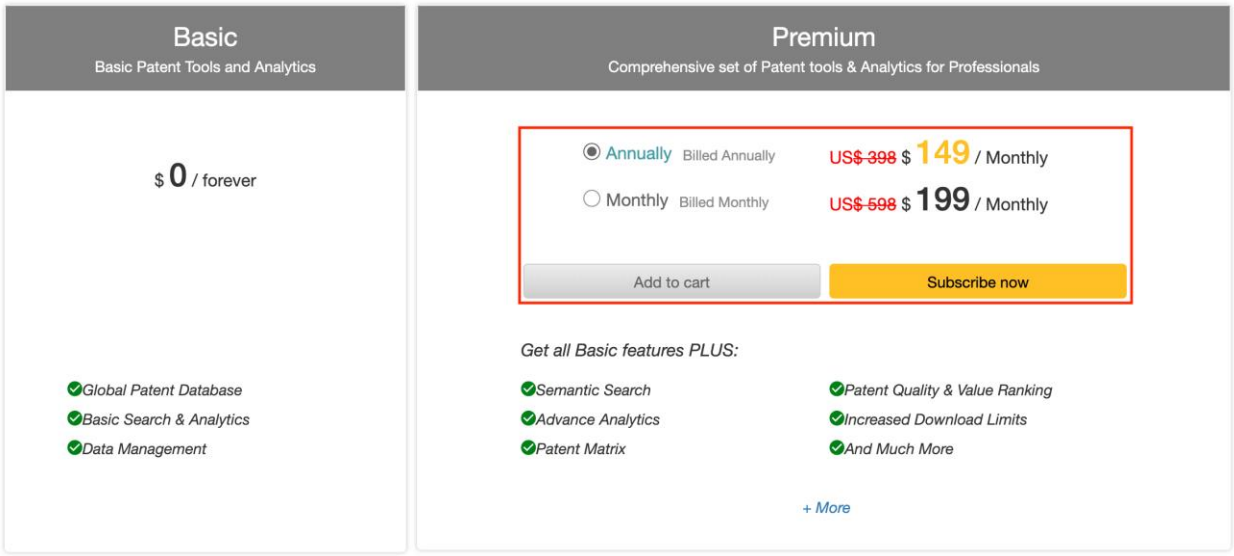
1. Sign in to your account.

2. Starting on the Patent Search main page, click on the **Subscribe to Patent Search** button.

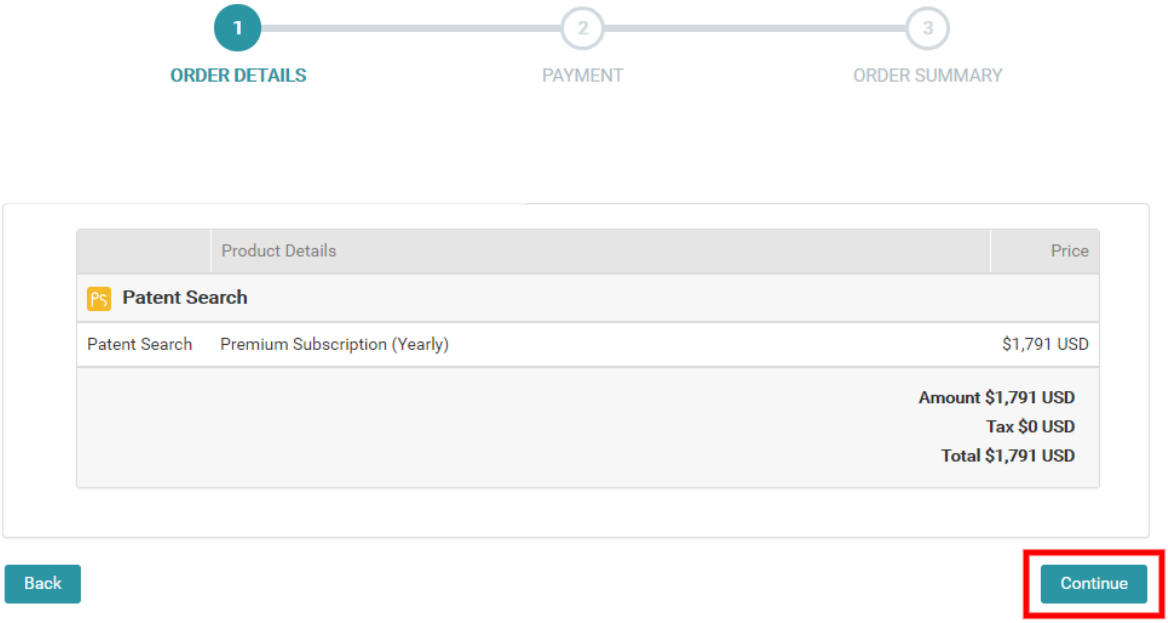


3. The webpage below will be displayed. To subscribe to Patent Search, select the billing period that you wish to use – **Annually** or **Monthly.** Then, choose the subscription level that you wish to purchase - Basic, Advanced, or Premium. Once done, click on Subscribe Now.

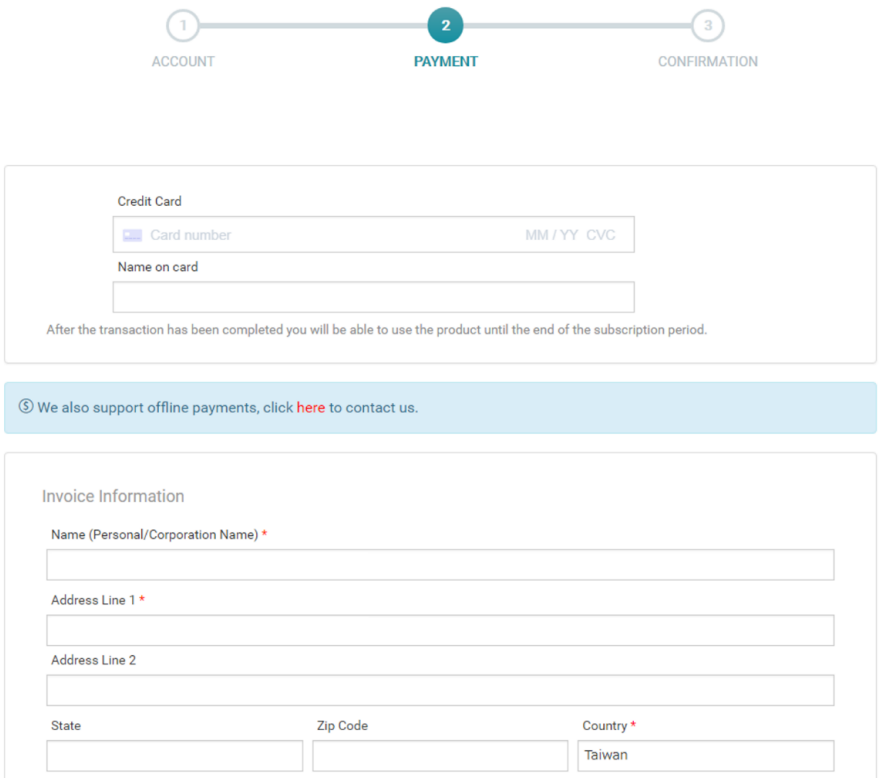




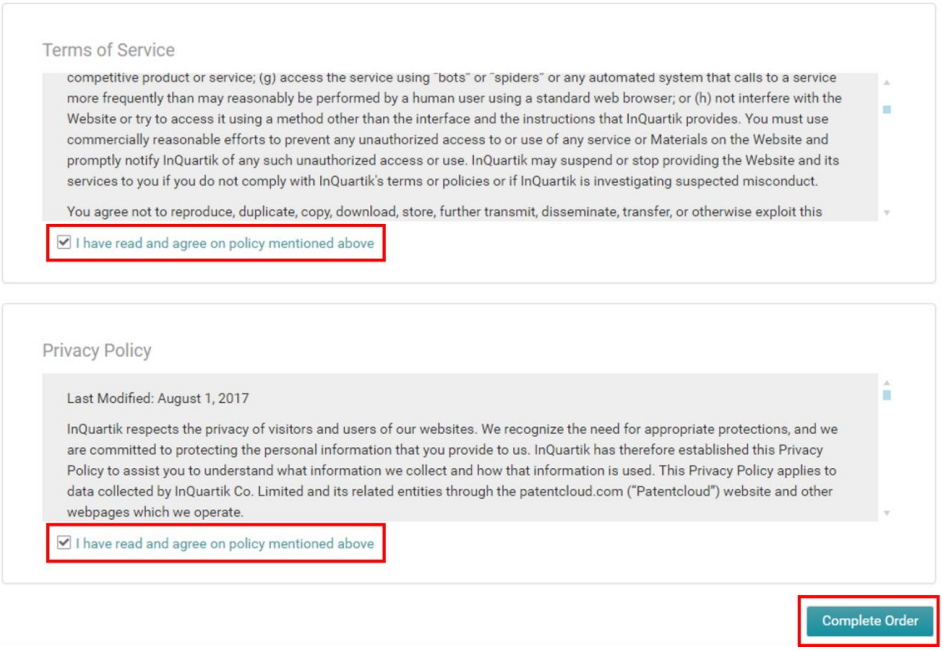
4. Review and confirm that the items listed are what you want to purchase. Click on **Continue**.



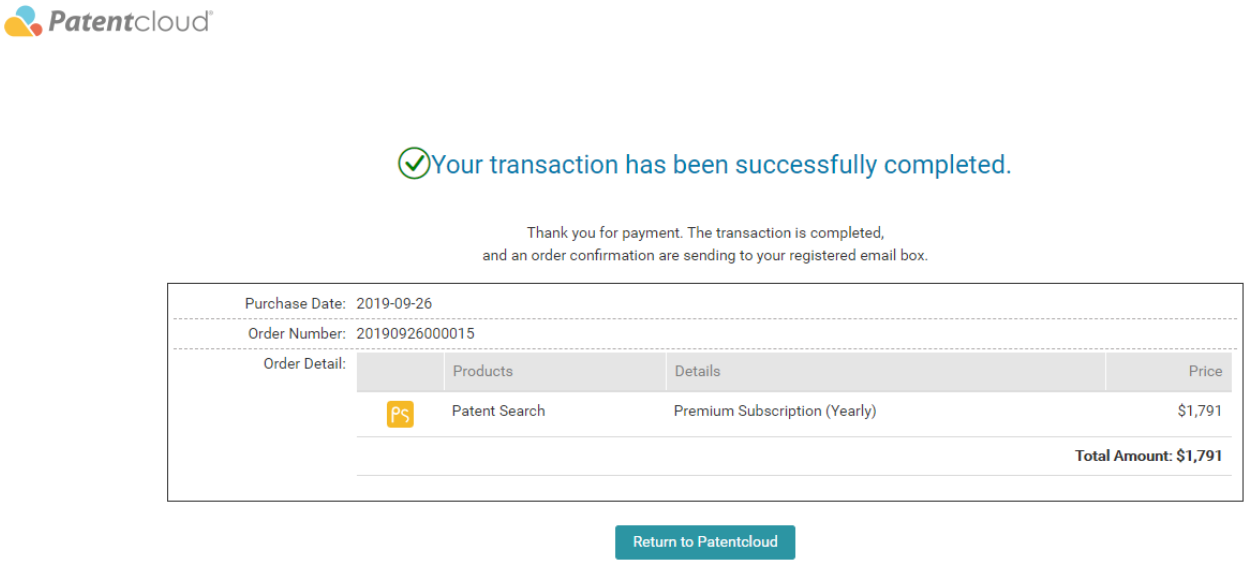
5. On the Payment page, please enter your credit card information and your invoice information.



6. Scroll down to the bottom of the Payment page. Read and tick the checkbox for the Terms of Service and Privacy Policy statements. Then, click on **Complete Order**.



7. Congratulations! You now have a Premium subscription to Patent Search.



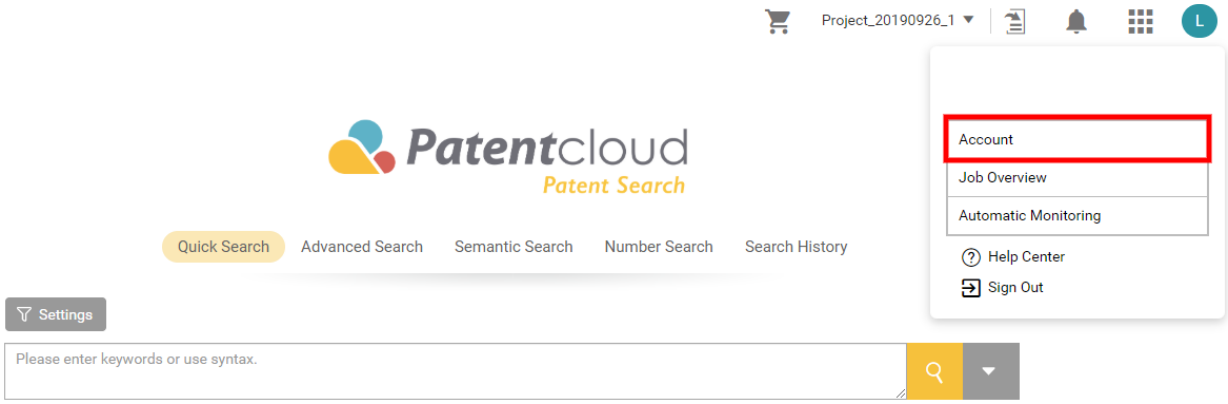
Refunds and Returns

Please note that there are **no refunds** for Patentcloud's subscriptions.

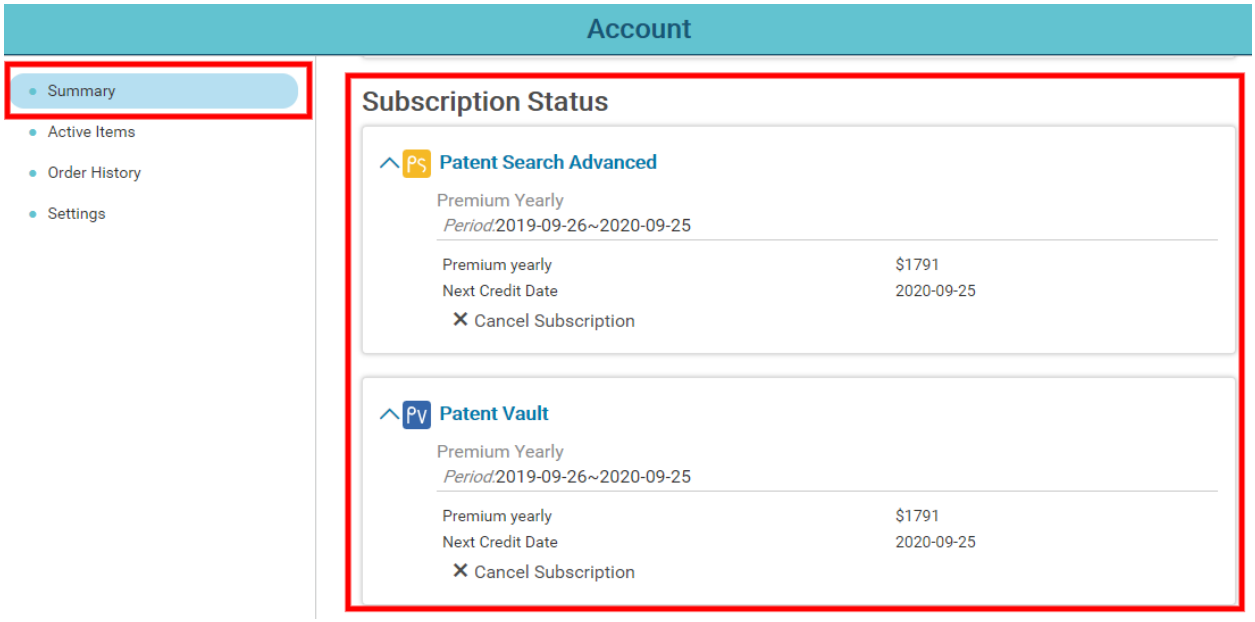
Purchase History

Your purchase history can be viewed in the **Account** section of your account. Please follow the steps below to access your previously purchased items.

8. Click on the round icon on the upper right side, then click on **Account**.



9. On the left panel, click on Summary. You will see your **Subscription Status** information.

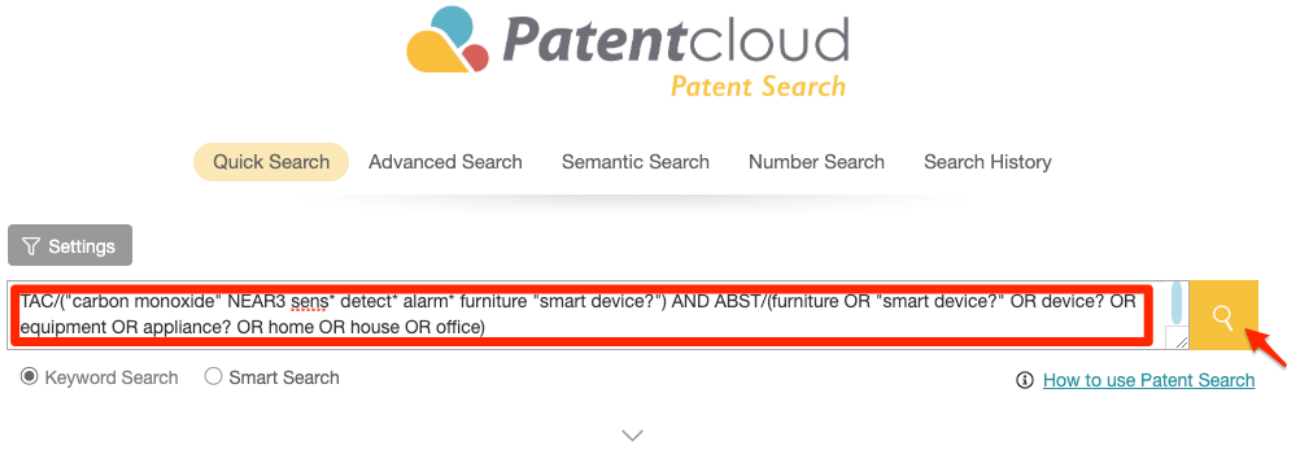


Data Search

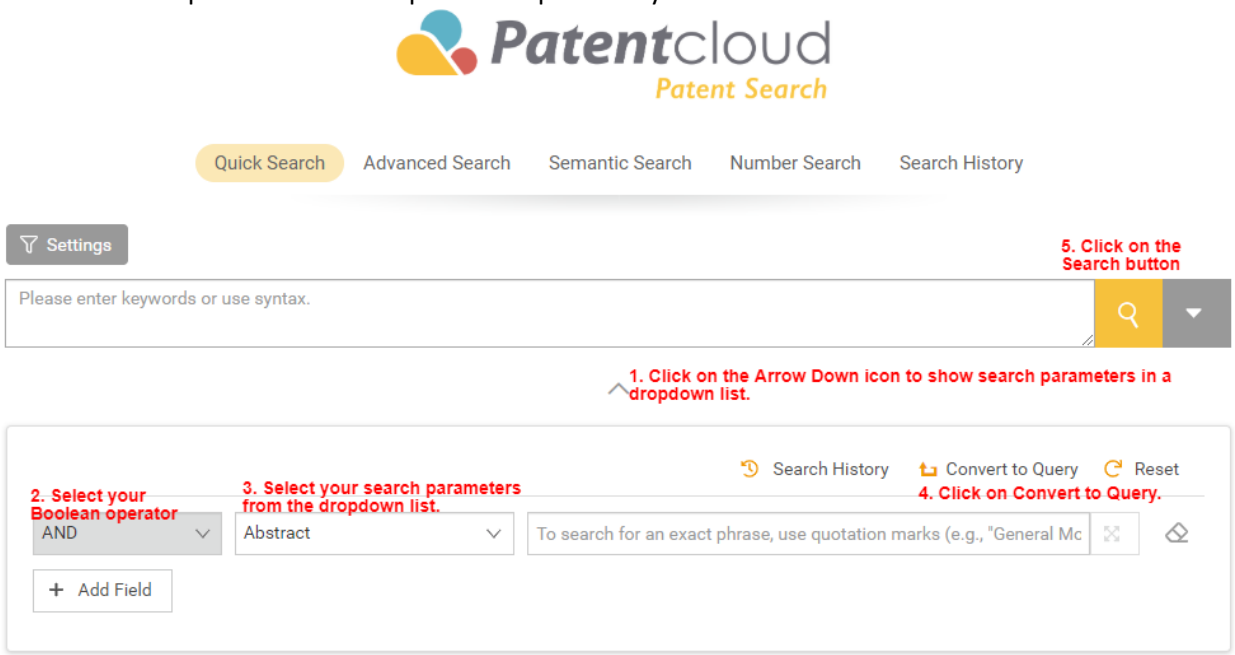
Quick Search

Go to the Patentcloud homepage to start your Quick Search:

1. Enter your search criteria in the search box. You can also use keyword search syntax and Boolean operators (NOT/AND/OR) to obtain a more accurate result. See all syntax codes here.



2. Click on the dropdown arrow to input more specific keyword searches.



Steps:

1. Click on the dropdown to show more specific search filters.

2. Select your Boolean operator.

3. Select your search parameters from the dropdown list.

4. Click on **Convert to Query**. Your keyword will then appear in the correct search format in the search box above.

5. Click on the Search button.

Note: You can now also check your Search History next to the Convert to Query button.

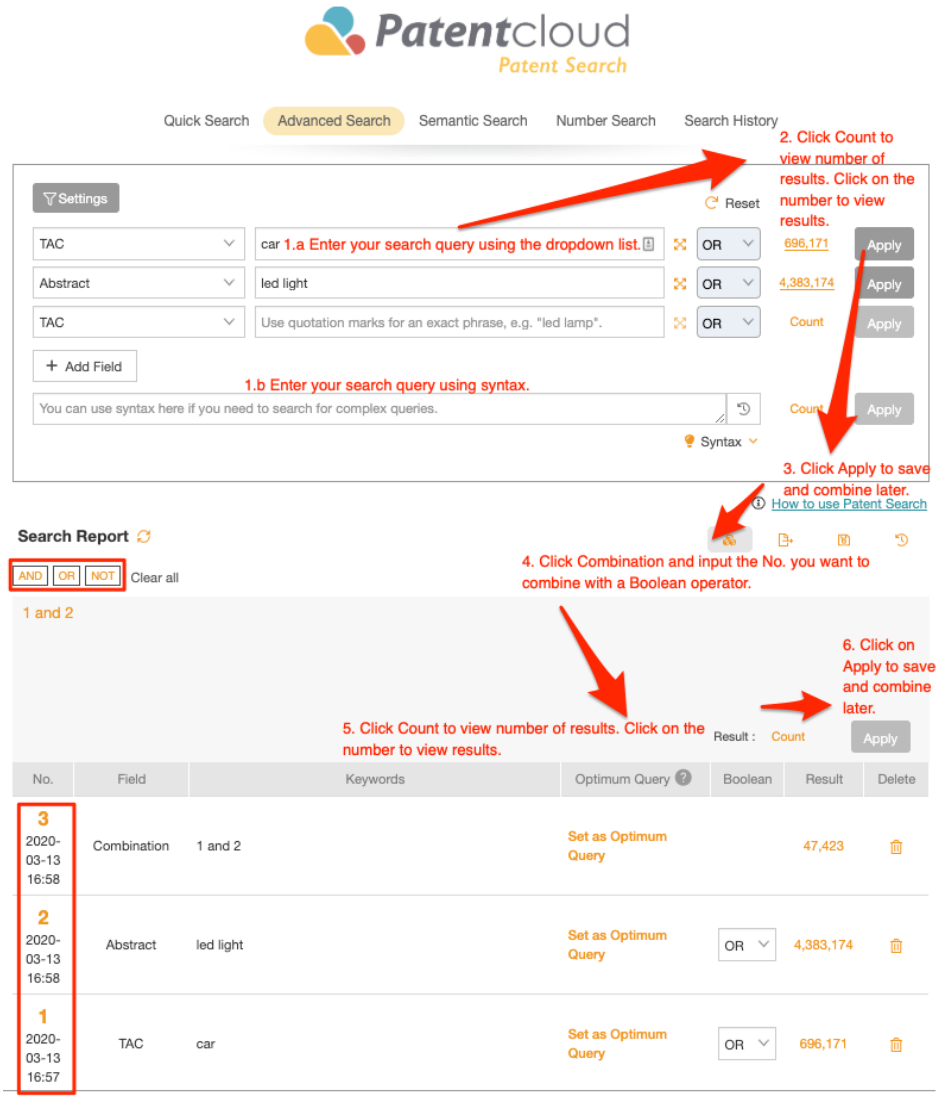
Advanced Search

Use Advanced Search to search by:

- keyword or date syntax
- keyword expansion
- company affiliation
- assignment or transaction record
- technology classification

How to use Advanced Search:

Patent Search Advanced and Premium provide you with an Advanced Search option that provides a Count feature to easily indicate the number of patents that match your search. You can combine, filter and view the match results on one page for more accuracy and ease of viewing. Advanced Search easily displays the results that match your keyword search and query search.



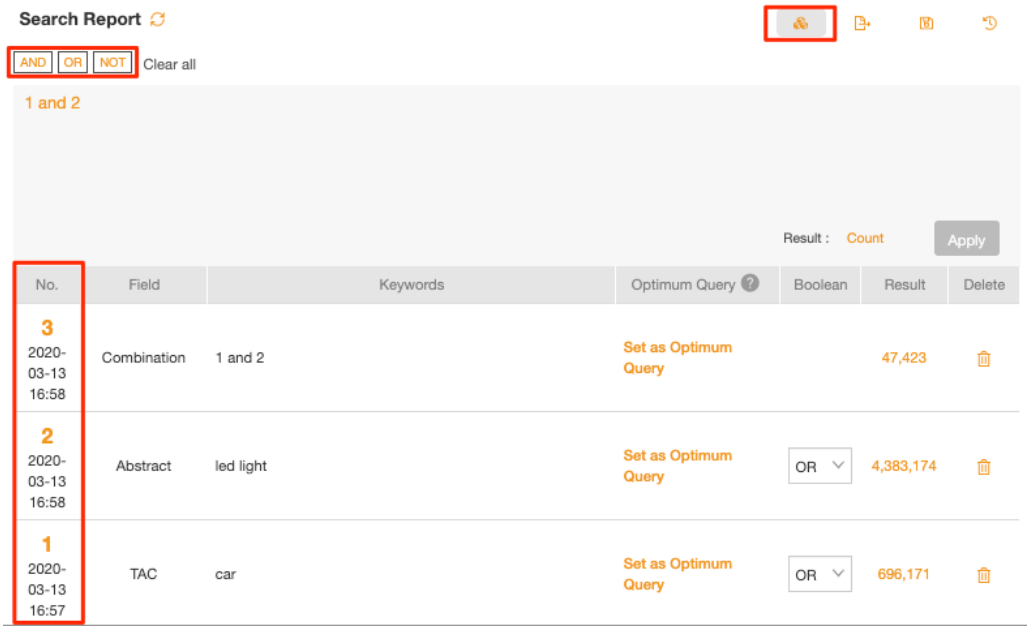
Steps:

1. Select your search parameter from the dropdown list then type the corresponding keyword in the query box. When entering multiple keywords in one query box, do not include punctuation marks such as commas. Then, choose a Boolean operator (AND/OR) to set the relationship between the multiple keywords in the same query box. Users can also use syntax codes and form query strings - see all syntax codes here.

2. Click on **Count** to view the matching patent results.

3. To save this query line and combine with other queries later, click on **Apply**. To view the search results right away, click on the resulting number after clicking Count.

4. To combine multiple queries in your Search Report box, click on **Combination**. Enter the corresponding number of the search queries you want to combine and add a Boolean operator (AND/OR/NOT) after every number to set the relationship.



5. Click on **Count** to view the number of resulting matches. Click on the resulting number to view search results.

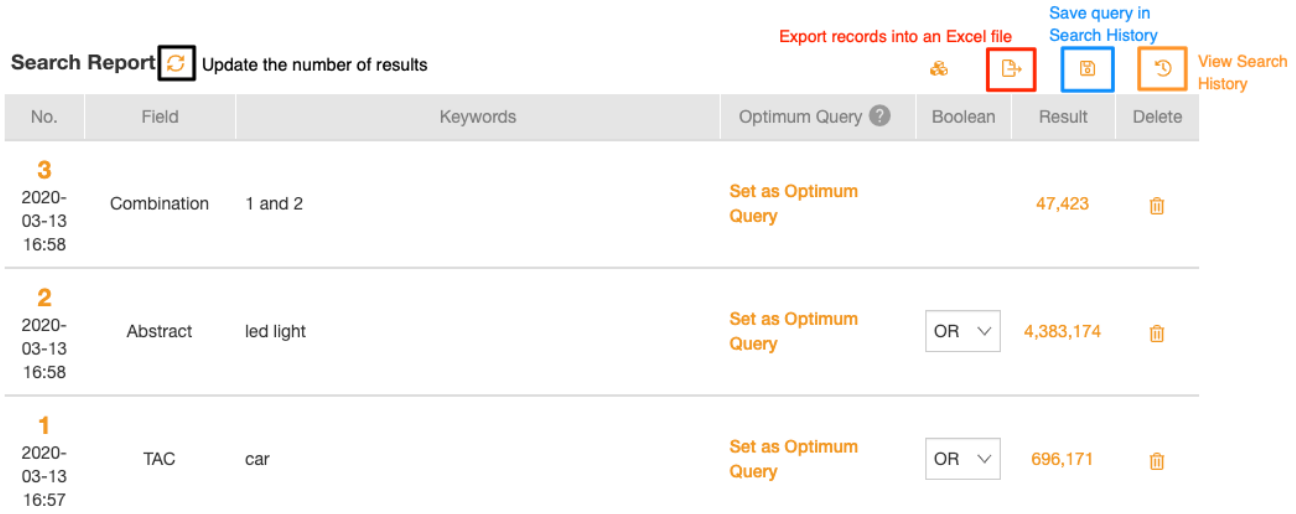
6. Click on **Apply** to save and combine with other queries or combinations later.

Other functionalities in the Search Report tab:

Export

Save (refer to steps below)

View Search History

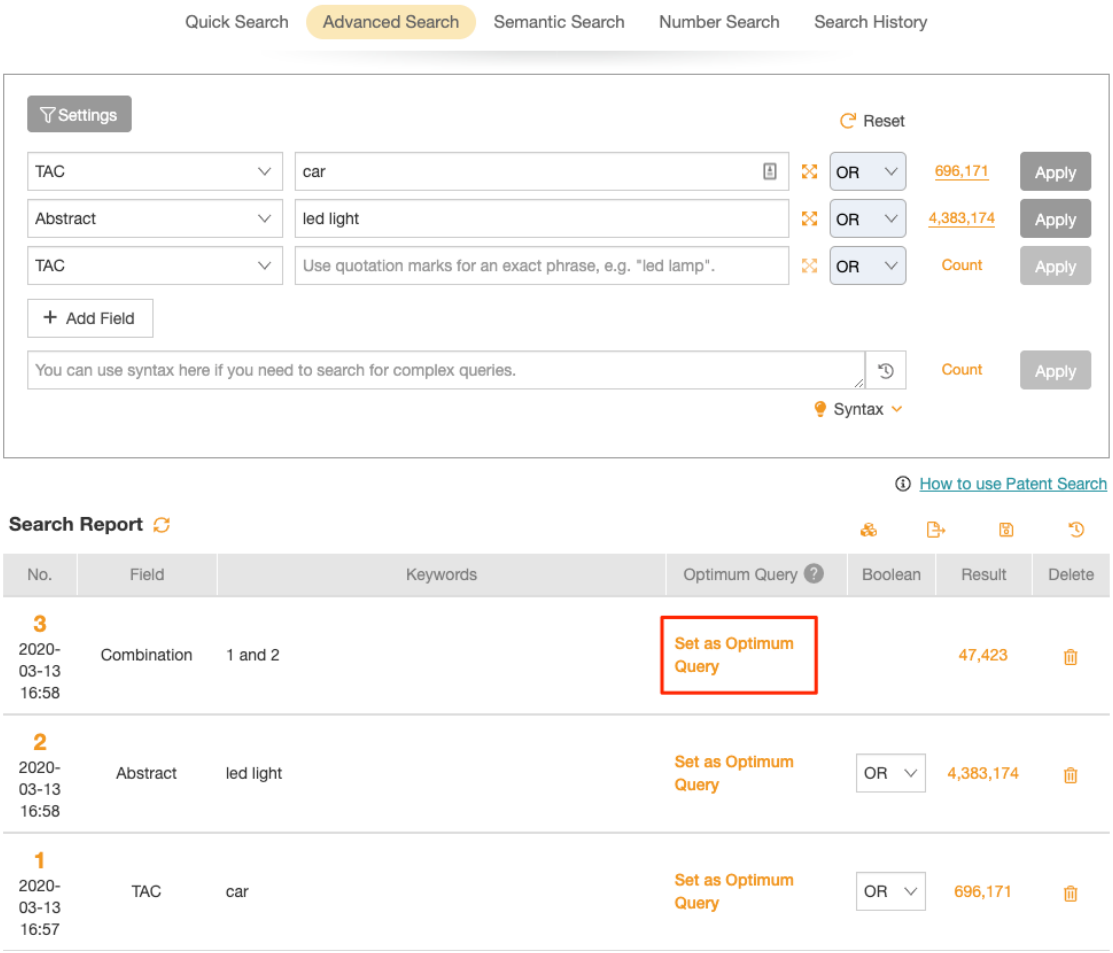


If you want to export the Search Report as an Excel file, click on **Export** and get a similar file like below.

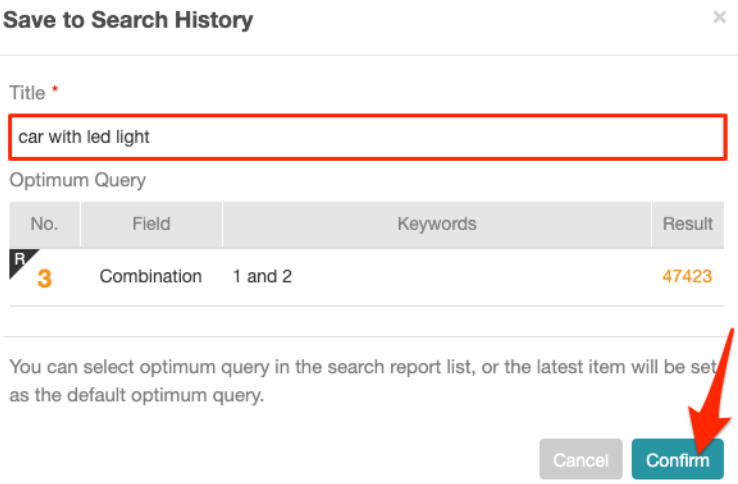
	A	B	C	D	E	F	G	H
	Patentcloud							
			Advanced Search Report					
		Patent Office	Full Text : US, CN, EP, WO, JP, TW, IN, EM					
			Bibliography/Abstract (90+ Authorities) : KR, AU, BR, CA, CH, DE, DK, ES, FI, FR, GB, ID, IL, IT, MY, NL, RU, SE, ZA					
		Patent Type	Utility Patent, Utility Model, Design, Plant, Others					
		Patent Status	Publication, Issue					
		Stemming (Keyword	On					
				Date	2020-03-13			
	No.	Field	Keywords	Boolean	Result	Notes		
	3	Combination	1 and 2		47,423			
	2	Abstract	led light	OR	4,383,174			
	1	TAC	car	OR	696,171			
	This report is generated from www.Patentcloud.com on March 13 ,2020							

How to save an Advanced Search query:

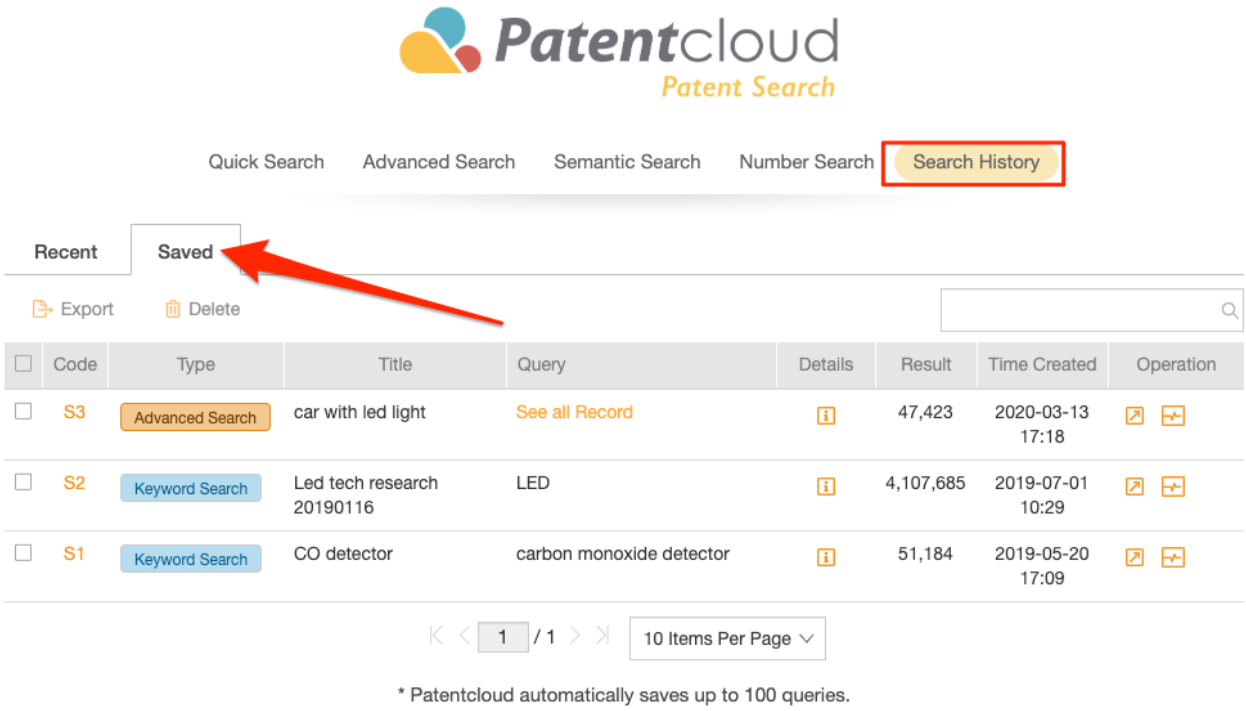
Firstly, set the Optimum Query (i.e. the combination) as this will be the query that will be executed from the Search History's Recent or Saved tab.



Then, click on the Save icon. Enter a title for this query and confirm the Optimum Query that is selected.



Access all your Saved queries within the Saved tab of Search History.

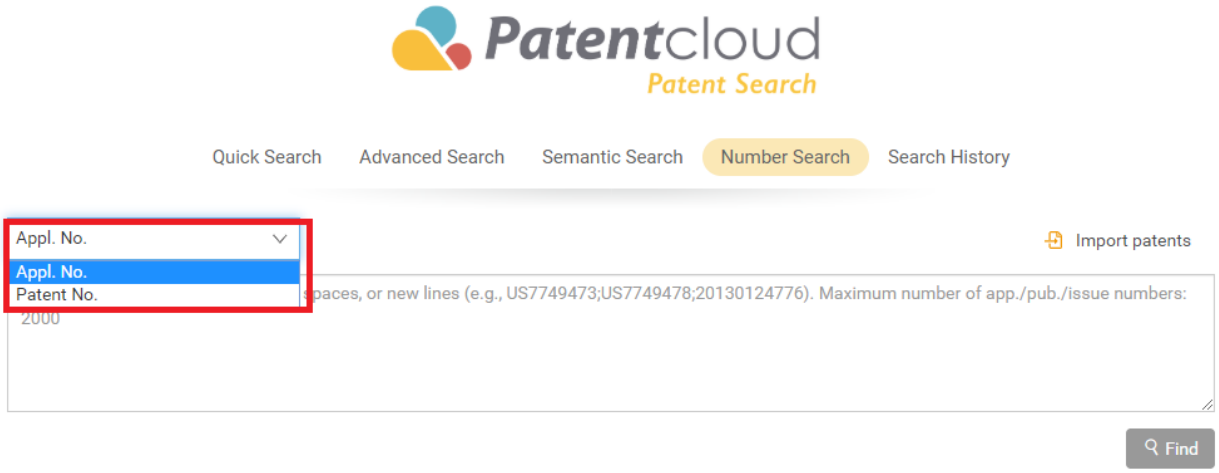


To know more about the functions available in Search History, please refer to this article.

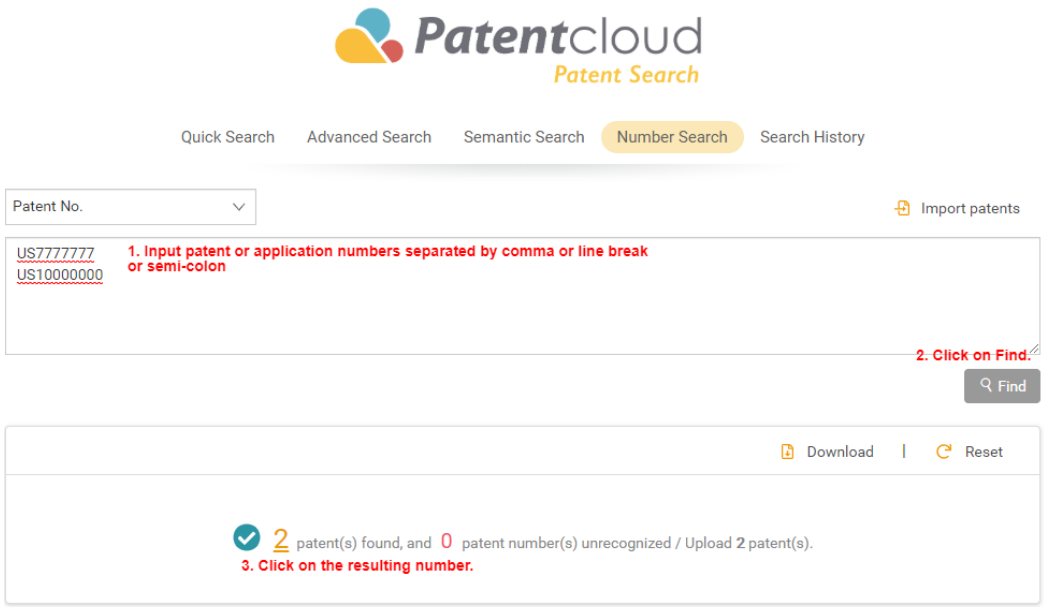
Number Search

Number Search gives you the ability of searching without the hassle of using the patent or application number syntax. It optimizes patent search and improves the accuracy by eliminating any irrelevant results. (Separate numbers with semicolons, spaces, or new lines. Maximum number of app./pub./issue numbers: 2000)

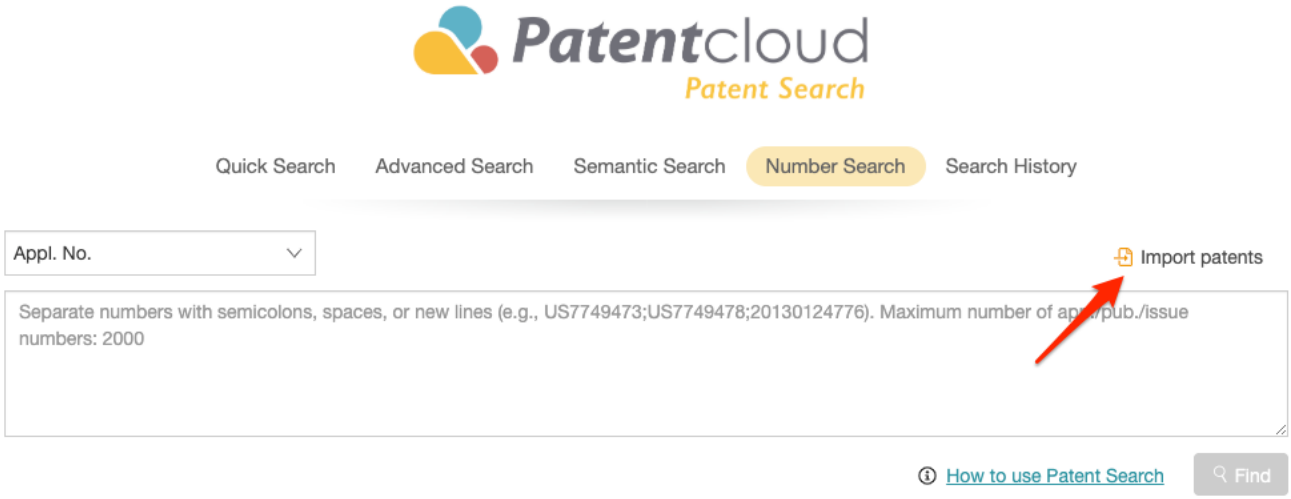
1. Choose Patent No. or Appl. No. (Application No.) from the dropdown list.

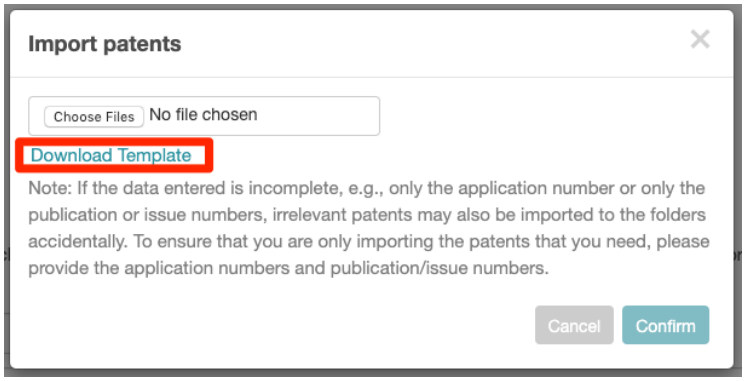


2. Key in the patent or application number, click **Find**, then click the resulting count of patents found to see the details.

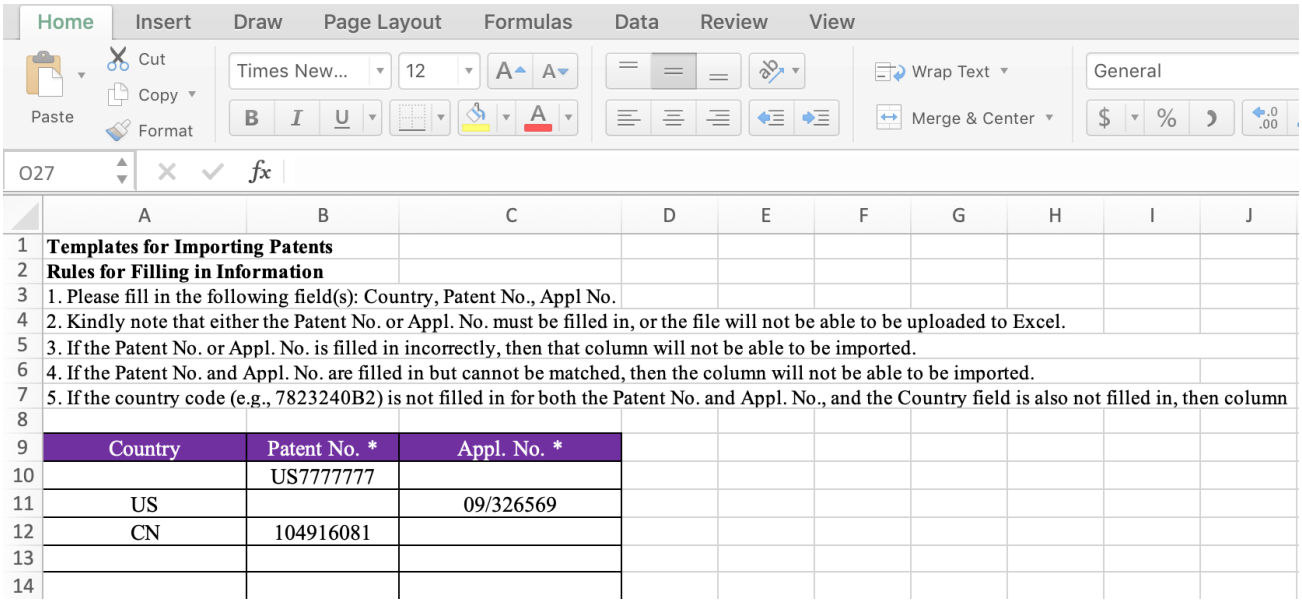


3. For a batch upload, click on Import patents then click on Download Template.



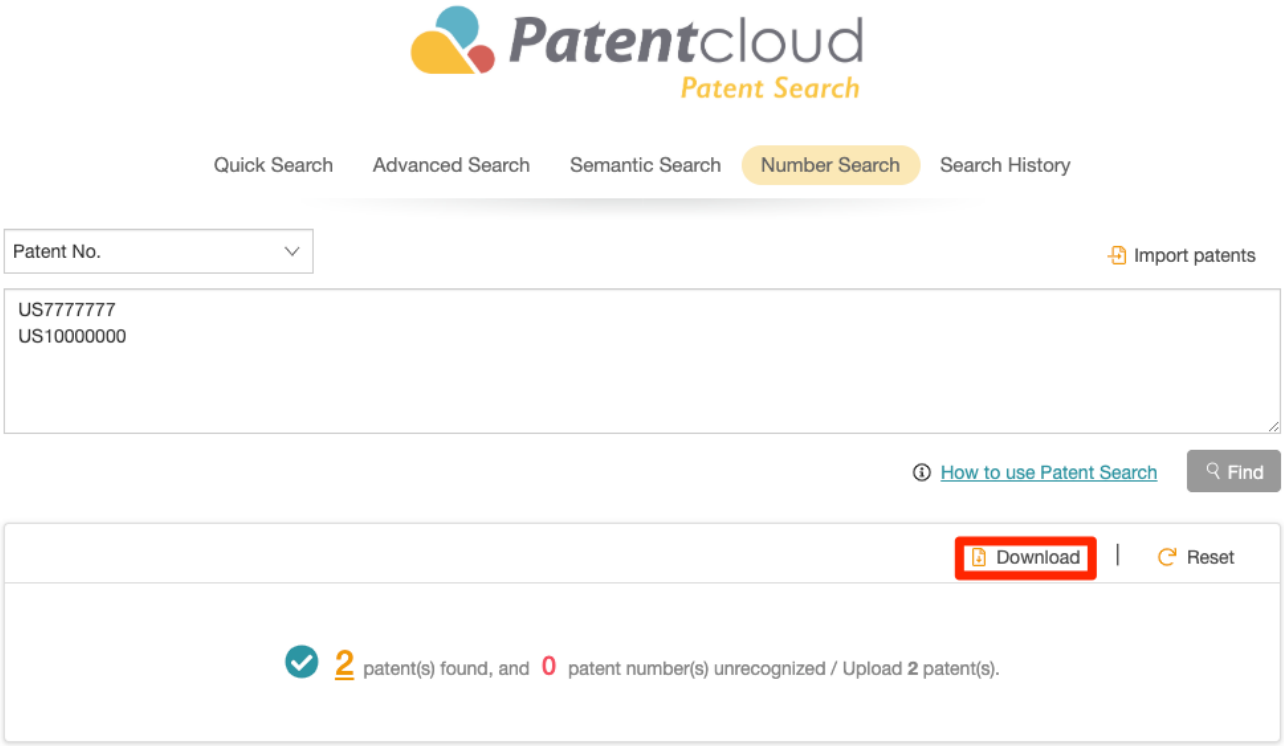


Fill up the Country Code and either Patent Number or Application Number.

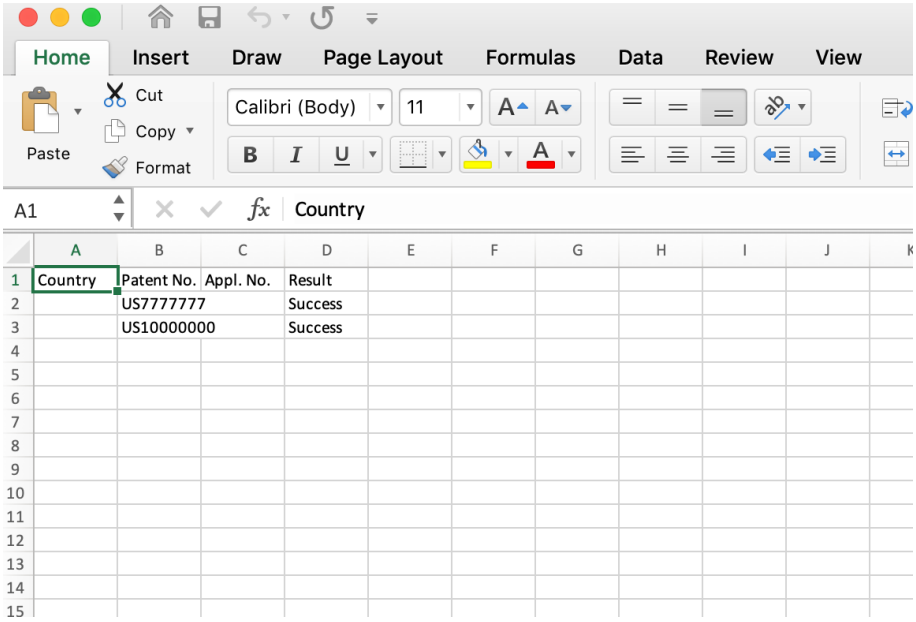


	A	B	C	D	E	F	G	H	I	J
1	**Templates for Importing Patents**									
2	**Rules for Filling in Information**									
3	1. Please fill in the following field(s): Country, Patent No., Appl No.									
4	2. Kindly note that either the Patent No. or Appl. No. must be filled in, or the file will not be able to be uploaded to Excel.									
5	3. If the Patent No. or Appl. No. is filled in incorrectly, then that column will not be able to be imported.									
6	4. If the Patent No. and Appl. No. are filled in but cannot be matched, then the column will not be able to be imported.									
7	5. If the country code (e.g., 7823240B2) is not filled in for both the Patent No. and Appl. No., and the Country field is also not filled in, then column									
8										
9	Country	Patent No. *	Appl. No. *							
10		US7777777								
11	US		09/326569							
12	CN	104916081								
13										
14										

4. Quickly determine which patent/application numbers were not recognized by downloading an Excel report for it.



Report will be as shown.



5. Search results page will be as shown.

Project_20190926_1

Keyword Search PN/(US7777777 OR US10000000) Search Save

Advanced Filter

Patent Office
Patent Type
Assignee/Applicant
Assignee (Std)
Curr. Assignee
Inventor
Legal Status
Abandon Type
Quality
Value
IPC
CPC
Locarno
USPC
FI
Agency
Examiner
Kind Code

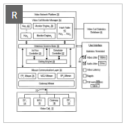
Filter

2 records (0.22 seconds)

All

So

1. **System and method for active call monitoring**



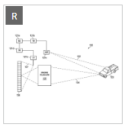
Patent No.: [redacted]B2
Pub./Issue Date: 2010-08-17
Appl. No.: 10/424310
Appl. Date: 2003-04-28

Assignee:
- Original: Tandberg Telecom AS
- Standardize: TANDBERG TELECOM AS

Inventor:
Kevin Bowman
James Lemieux

A video call monitor manager creates a video call monitor engine for initiated video calls between plural video devices with the video call monitor engine having a monitoring thread for each video device of the video call, periodically polling their associated video devices for quality of service and state information to automatically detect quality of service threshold rule violations and state changes for broadcast to interested locations, su administrators monitoring the video call. Each video call monitor engine monitors a video call state with a nested state machine structure of device state machine...

2. **Coherent LADAR using intra-pixel quadrature detection**



Patent No.: US10000000B2
Pub./Issue Date: 2018-06-19
Appl. No.: 14/643719
Appl. Date: 2015-03-10

Assignee:
- Original: Raytheon Company
- Standardize: RAYTHEON CO

Applicant: Raytheon Company

Inventor: Joseph Marron

A frequency modulated (coherent) laser detection and ranging system includes a read-out integrated circuit formed with a two-dimensional array of detector elements each including a photosensitive region receiving bot a target and light from a local oscillator, and local processing circuitry sampling the output of the photosensitive region four times during each sample period clock cycle to obtain quadrature components. A data bus cou outputs of each of the detector elements receives the quadrature components from each of the detector elements for each sample period and serializes the received qu...

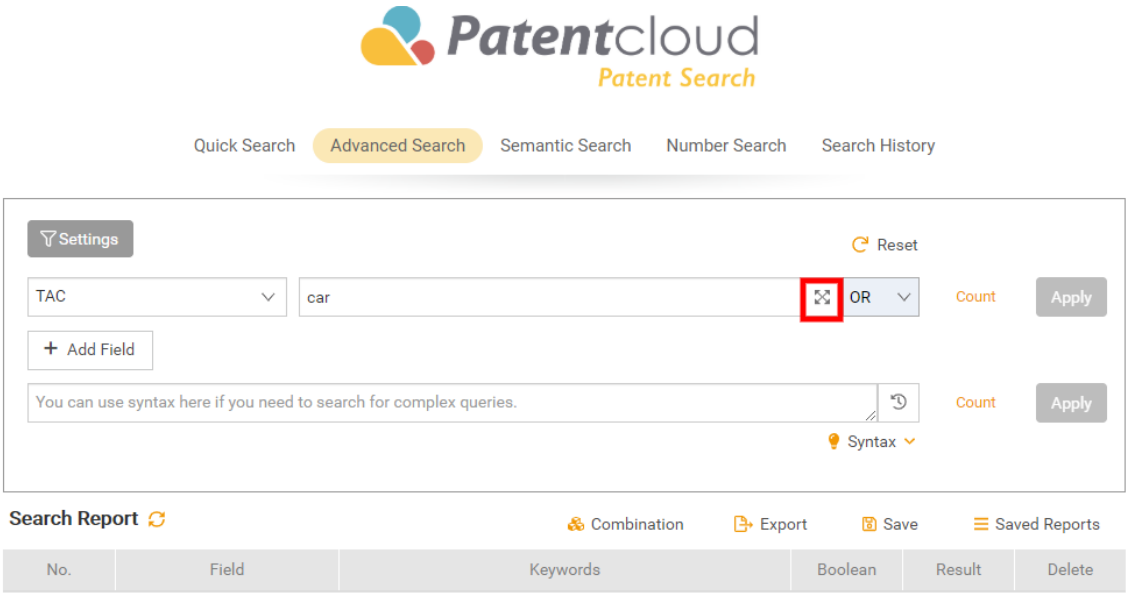
Prev 1 Next

Keyword Expansion

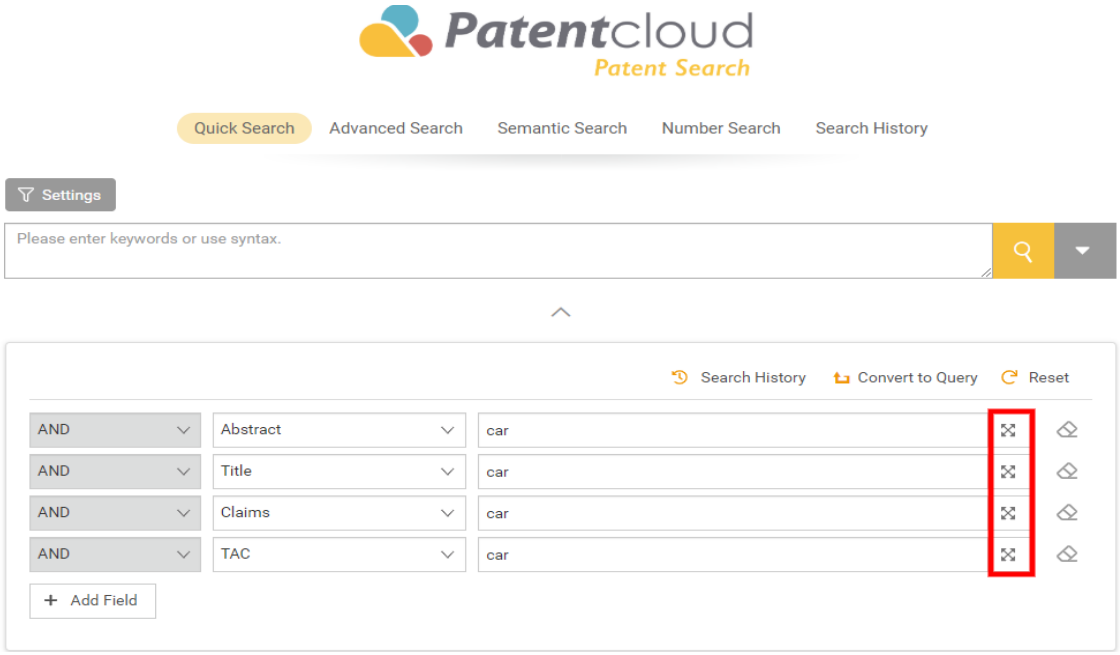
Oftentimes, many different variations of a word are used in patent publications and issues. Therefore, in order to perform a thorough patent search, it is necessary to expand your search to other related variants of your keyword. This is where the Keyword Expansion feature can help.

To use this feature, please follow the steps below:

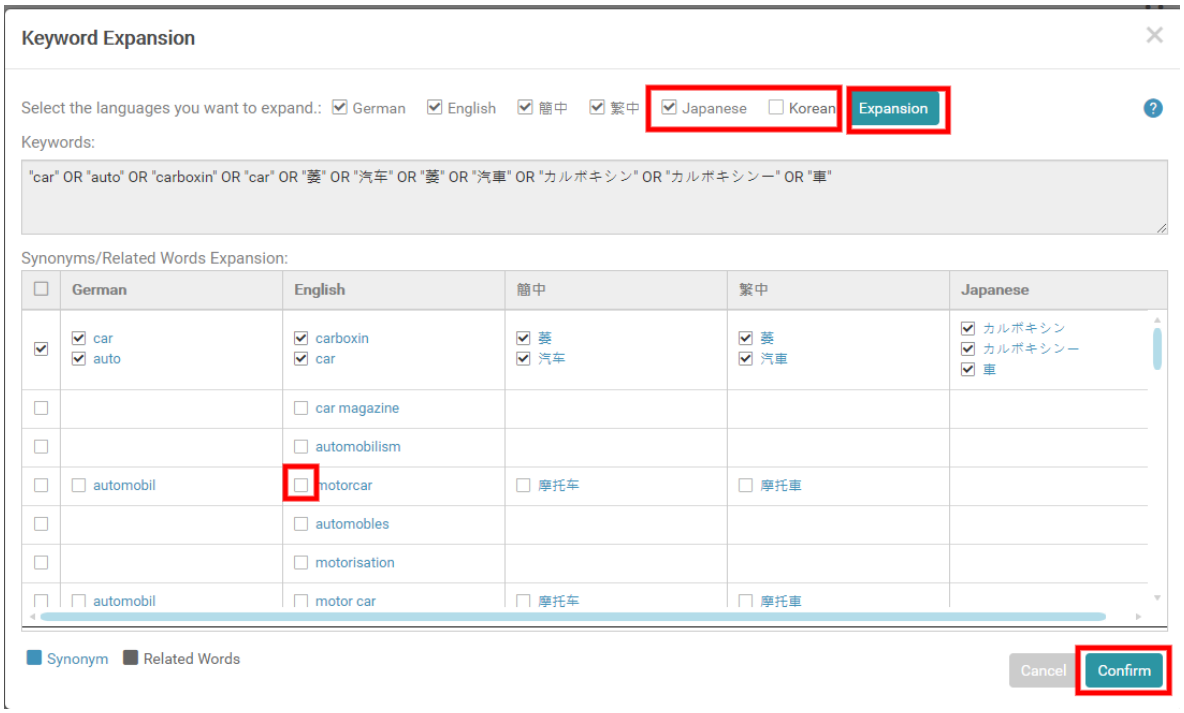
1. In the **Advanced Search** (for Advanced and PRemium subscriptions only) tab, enter a keyword into the search box next to the drop-down menu, then click on 



Similarly, Keyword Expansion can be found In the **Quick Search** tab,



2. The Keyword Expansion window will appear. You can choose different languages, click **Expansion,** select related word expansion, then click **Confirm** to apply.

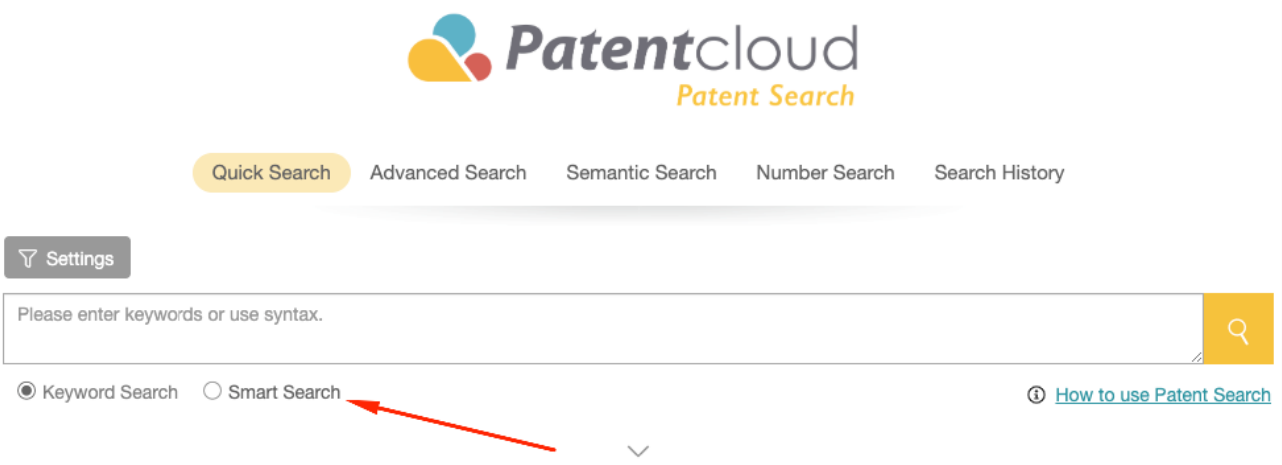


3. After clicking **Confirm**, the selected keywords will appear on your search field.

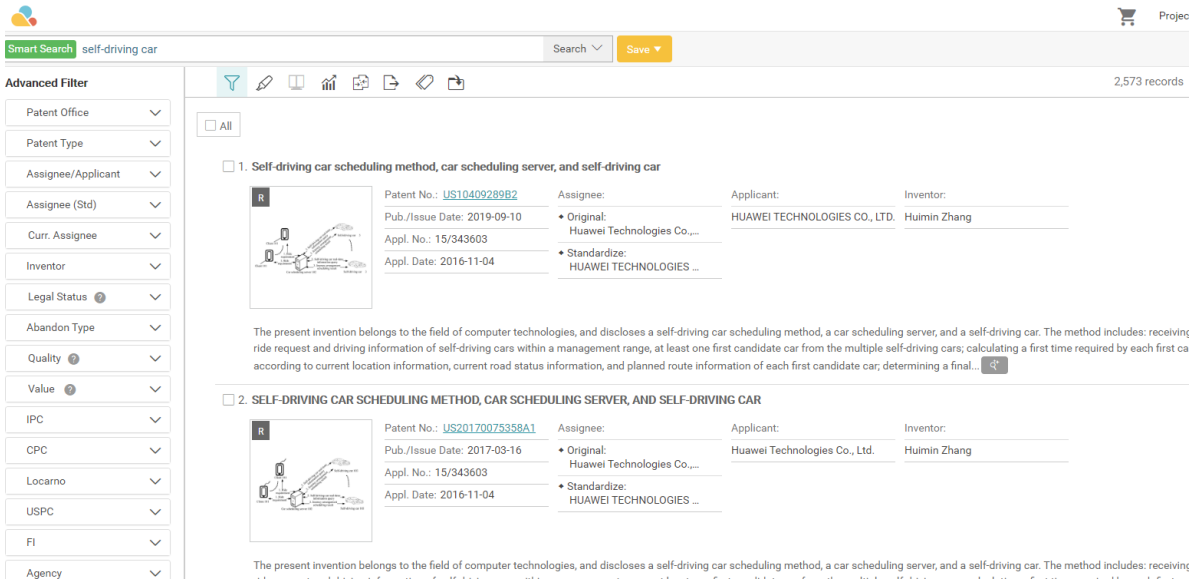
Smart Search

Smart Search automatically performs keyword searches for related words and synonyms of the original query. On Smart Search, there is no need to input any syntax. It's similar to the Keyword Expansion feature. However, with Smart Search, the searches are performed on all of the related keywords, whereas Keyword Expansion allows you to fine-tune searches based on your own criteria. To use Smart Search, please follow the steps below:

1. In **Quick Search**, simply switch from Keyword Search to Smart Search, input your text query without any syntax, and click on  .



2. Results will show all of the patents with keywords related to what you have entered.



Classification Query

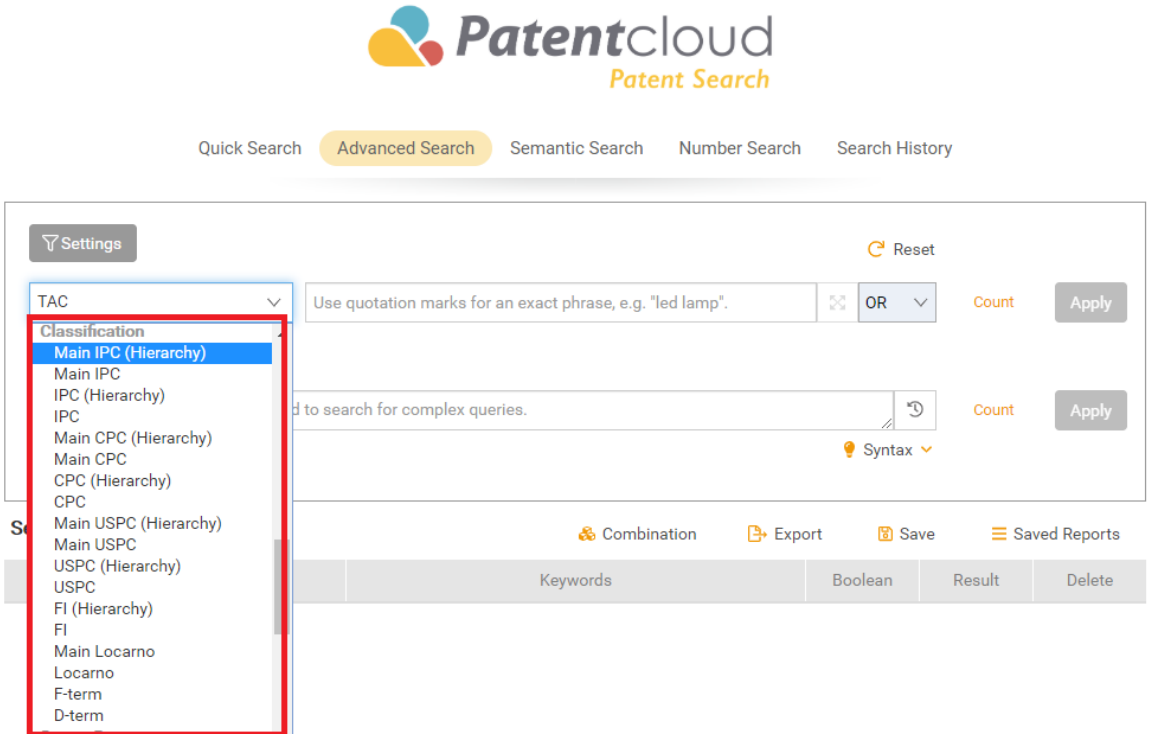
When you want to perform a search based on a patent's classification code and its description, then you can use Classification Search. If you are unsure of the code, you can use Classification Query to find out. The Classification Query is integrated into the Classification Search.

Currently Classification Search is available in both **Advanced Search** (for Advanced and Premium subscriptions only) and **Quick Search** features:

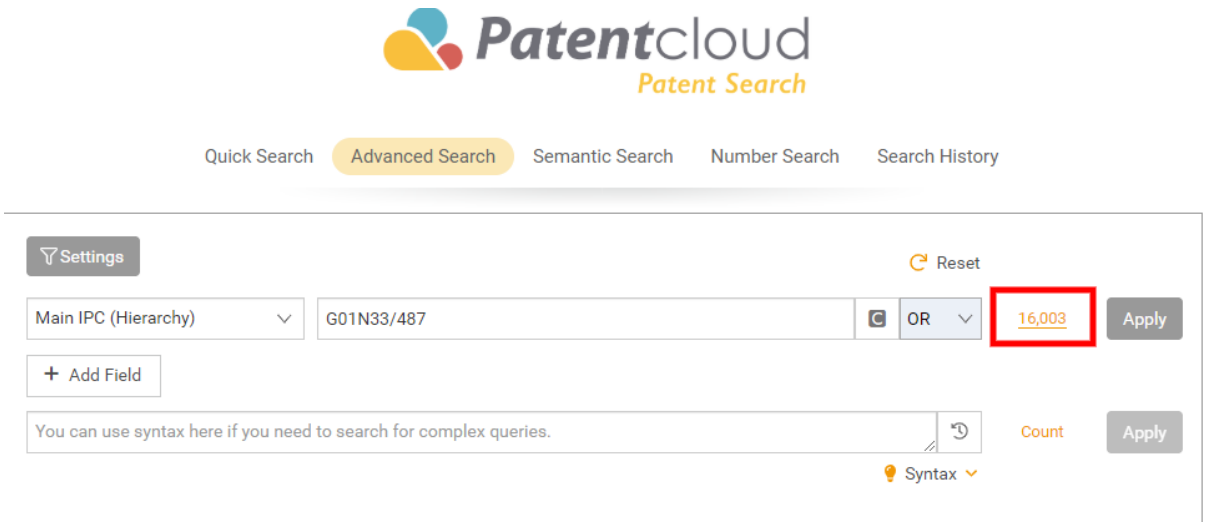
In the **Advanced Search** tab:

1. Use the dropdown list for search parameters.

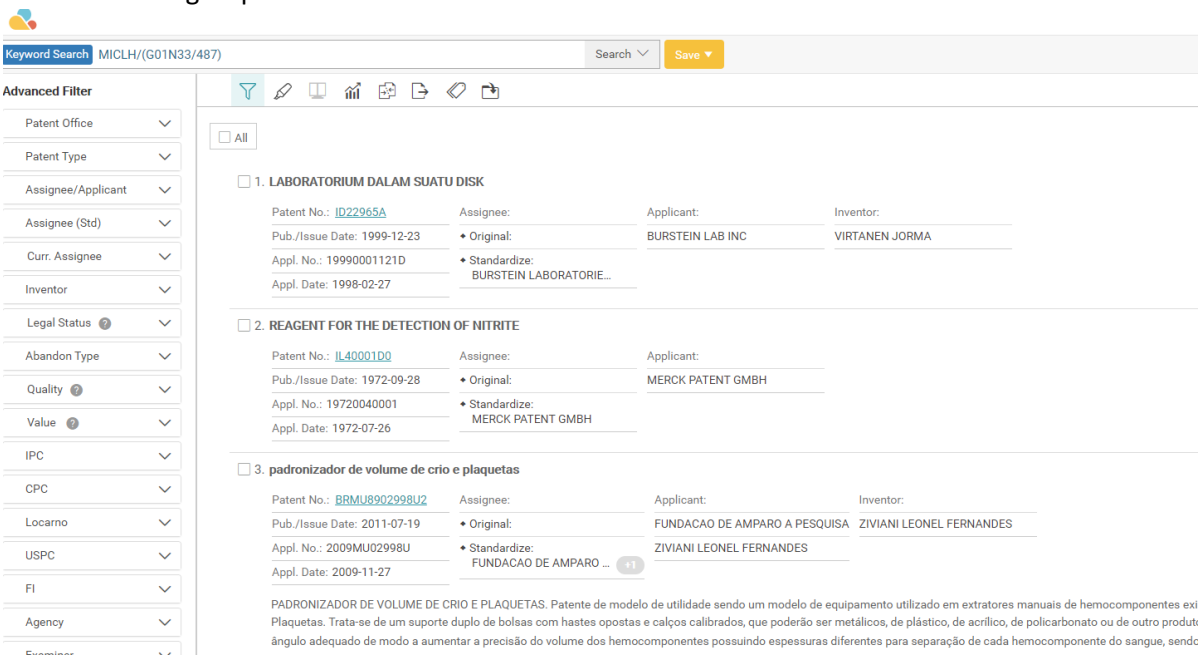
2. Choose one of the classification types under **Classification** from the dropdown menu. Learn more about the difference between classification with hierarchy and without in this article.



3. Key in the classification number and click **Count** for how many patents as a result.

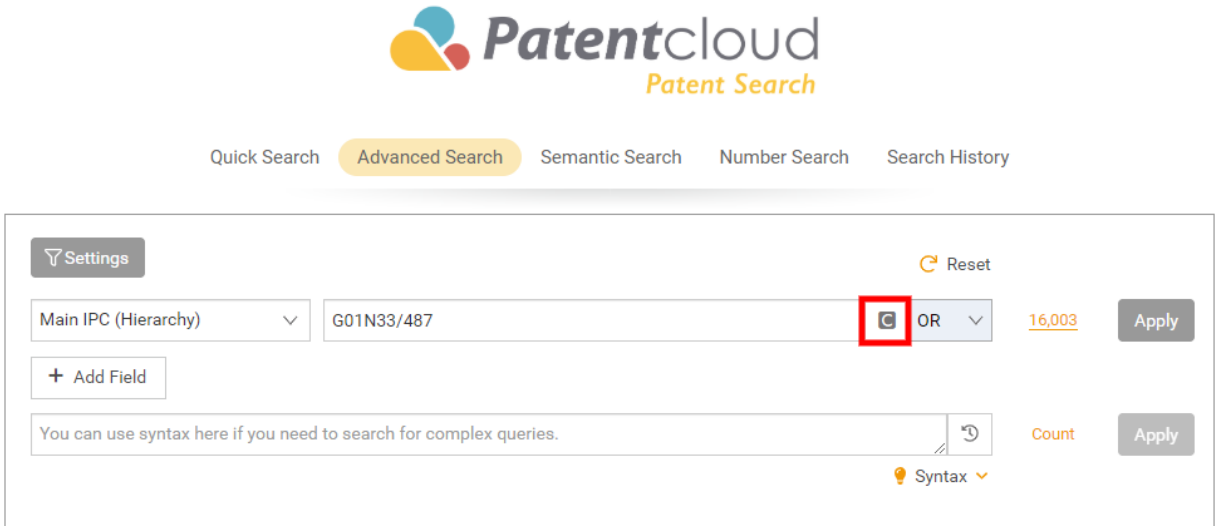


4. Search results will now include both the patents in that specific subgroup and those found within its child subgroup.



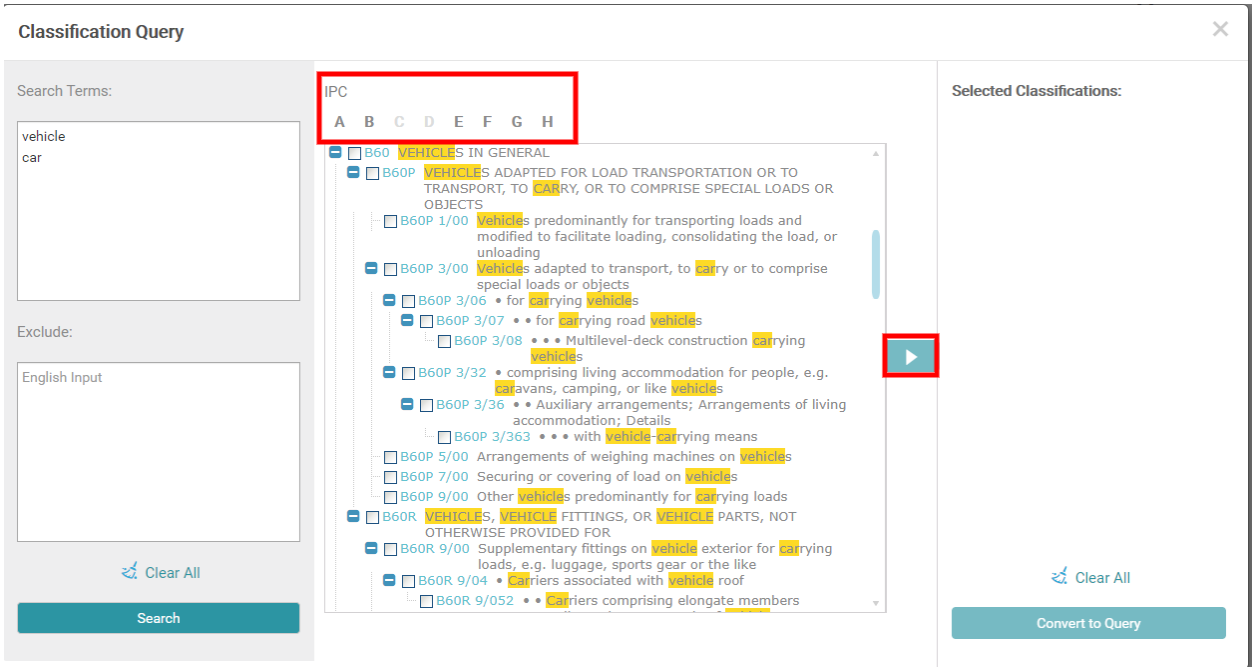
The hierarchical classification has been integrated natively into the Classification Query window, which is accessible under the customized query box: users can access it to perform a keyword search among both parent and child subclasses to narrow down the search results.

1. Click the icon  to enter classification query

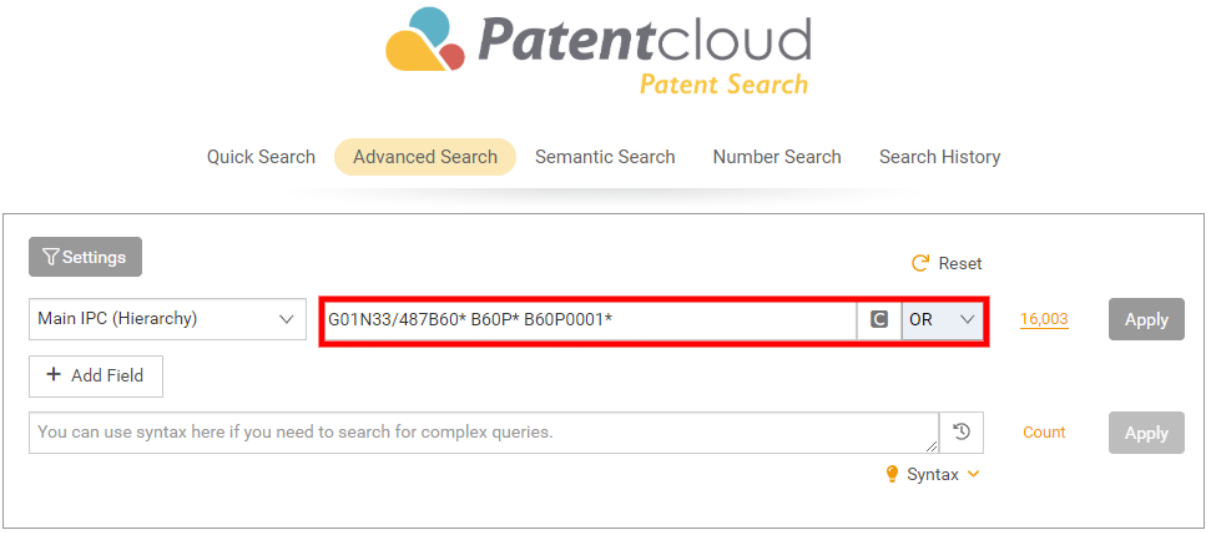


2. In Classification Query, key in the search term and exclusions then click Search. Tick the checkboxes of the categories you want to use, click on the Arrow Right button, then click on Convert to Query.

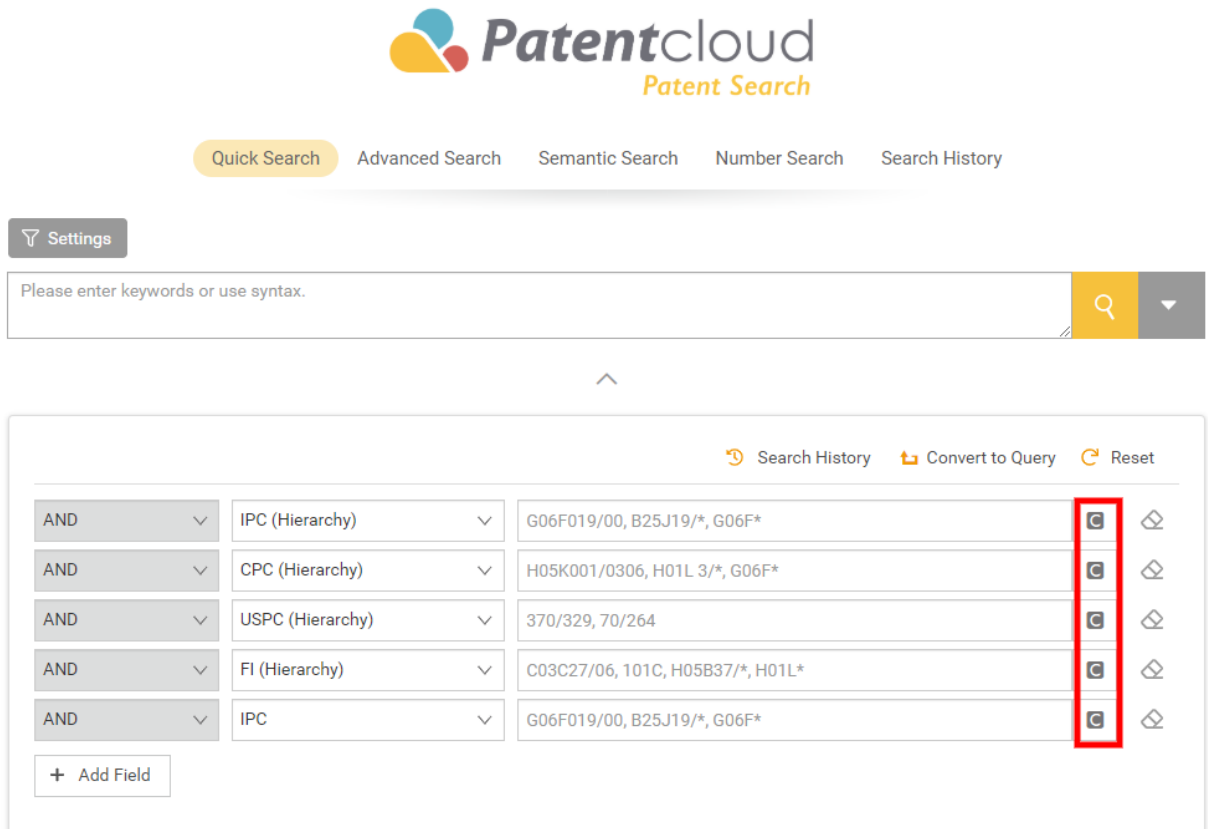
   You can also do a quick find based on the first letter or the section, from “A” to “H”.



3. Then, the classification codes will appear on the search box.



Similarly, you can also go to **Quick Search** and choose one of the classification types under **Classification** from the dropdown menu.



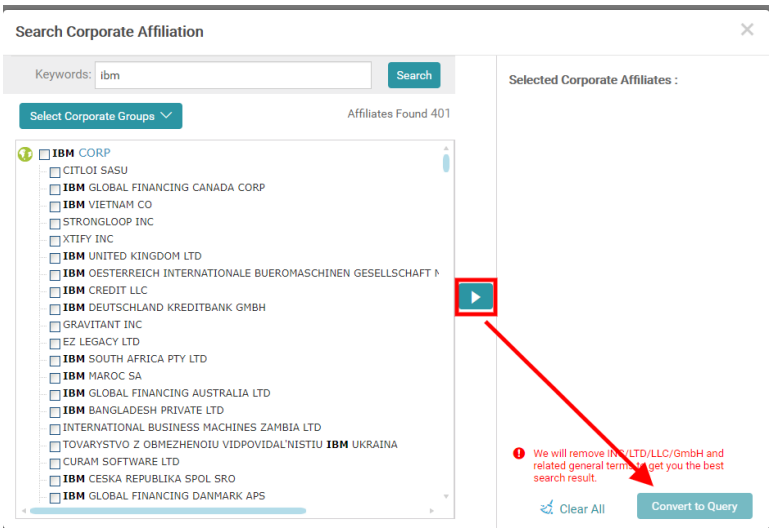
Corporate Affiliation Query

Sometimes companies may have variations in their names, subsidiaries or affiliates, depending on the business strategies or countries in which they are located. In order to perform a comprehensive patent

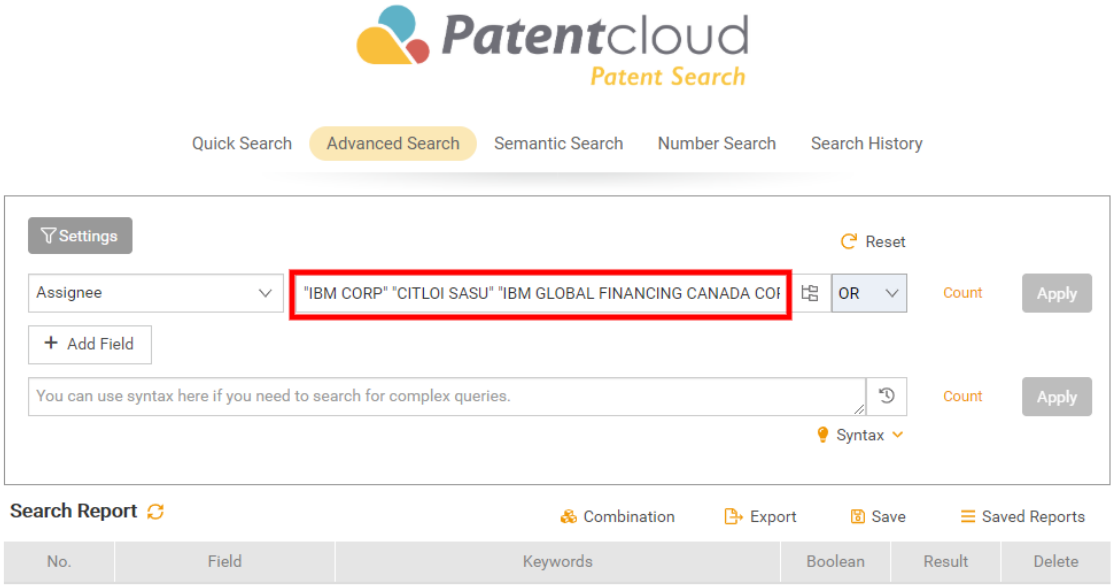
search, every possible variation of an assignee name needs to be considered. This can be done with Patent Search's Corporate Affiliation Search (Advanced and Premium subscriptions only) feature. To use Corporate Affiliation Search, follow the steps below:

1. Using **Quick Search** or **Advanced Search**, select **Assignee (**or **Current Assignee, Licensor... etc**) under party category in the parameter box, and then press the **Corporate Affiliation** icon

2. The Corporate Affiliation window will be displayed. In the Keywords box, type in the name of the organization, click **Search,** select affiliations, then click , and then click **Convert to Query**. For ease of use, any match to your keyword will be in bold.



3. The selected organization names will be displayed in the Assignee textbox, ready to search.


Patentcloud
Patent Search
Quick Search
Advanced Search
Semantic Search
Number Search
Search History
Settings
Reset
Assignee
"IBM CORP" "CITLOI SASU" "IBM GLOBAL FINANCING CANADA COI
OR
Count
Apply
Add Field
You can use syntax here if you need to search for complex queries.
Count
Apply
Syntax
Search Report
Combination
Export
Save
Saved Reports
No.
Field
Keywords
Boolean
Result
Delete

Legal Status (Description & Syntax)

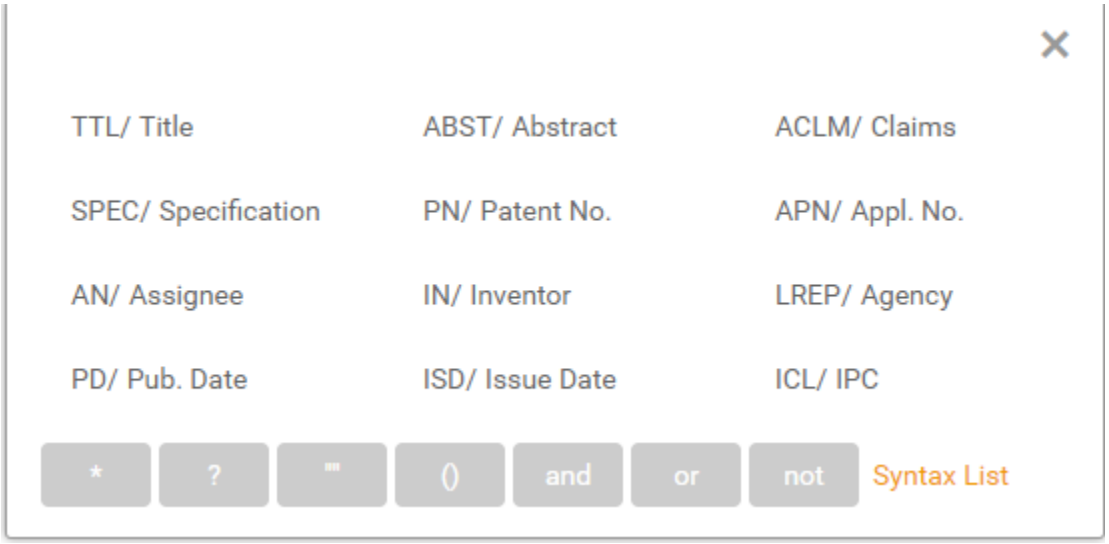
The legal status of a patent/application is selected from:

#	Pub./Issue	Simple Classification	Complete Classification	Description	Syntax
1	Pub.	Pending	Pending	The application is yet to be examined.	LLS/1
2	Pub.	Pending	Exam.	The application is under examination.	LLS/2
7	Pub.	PGPub - Granted	PGPub - Granted	The application was allowed and a patent has been granted. This is the pre-grant publication (PGPub).	LLS/7
3	Issue	Active	Active	The patent is active.	LLS/3
4	Pub./Issue	Inactive	Abandoned	The application was abandoned by the applicant and, therefore, is inactive; or the patent was withdrawn, or not paid for (lapsed), by the assignee and, therefore, is inactive.	LLS/4
4.1	Pub.	Inactive	Abandoned	The application was abandoned by applicant and, therefore, is inactive.	Display Only
4.2	Issue	Inactive	Withdrawn	The patent was withdrawn by the assignee and, therefore, is inactive.	Display Only
4.3	Issue	Inactive	Lapsed	The patent was not paid for (lapsed) by the assignee and, therefore, is inactive.	Display Only
4.4	Issue	Inactive	No Active State	The (EP) patent has no active designated state and, therefore, is inactive.	Display Only
5	Issue	Inactive	Expired	The patent is expired because the patent term is due and, therefore, is inactive.	LLS/5
6	Pub./Issue	Inactive	Revoked	The patent was revoked through invalidation proceedings (including opposition) and, therefore, is inactive.	LLS/6
8	Issue	Inactive	Reissued	The patent was reissued otherwise and, therefore, is inactive.	LLS/8

Syntax Keywords

Syntax Keywords provide a list of commonly used search syntax. You can click directly on the syntax you want to use, followed by your search query. To access this syntax box, simply type any known USPTO search syntax or **a /** in the search box and it will automatically appear. Click on the **Syntax List** to see the full list.

Please refer to the respective articles on Quick Search and Advanced Search to know how to use syntax codes in each search type.



Syntax Operator	Example	Explanation
*	SPEC/app*	The * syntax operator is used as a multi-character variable. In the following example, SPEC/app* will search for any word that begins with "app-," no matter how long the word is.
?	SPEC/app?	The ? Syntax operator is used as a single character variable. In the following example, SPEC/app? will search for any word that begins with "app-" and will include only words with one additional character.

""	SPEC/"artificial"	The "" syntax operator will search for the exact words/characters enclosed by the quotation marks. In the following example, SPEC/"artificial" will search for the exact word "artificial." Note: When using NEAR, do not use quotation marks (“ “) in your query.
()	SPEC/(art OR paint) AND canvas	The () syntax operator denotes the order of precedence when performing a search. Operations within the parentheses will be operated on first.
AND	SPEC/(art AND paint)	The AND syntax operator will search for both keywords on either side of the AND syntax operator. Results will be shown only if the results contain both keywords.
OR	SPEC/(art OR paint)	The OR syntax operator will search for both keywords on either side of the OR syntax operator. Results will be shown only if the results contain only one keyword, or the other keyword, or both keywords.
NOT	SPEC/(art AND NOT paint)	The NOT syntax operator will not search for the keyword after the NOT syntax operator. In the following example, SPEC/(art AND NOT paint) will search for the word "art" in the description, but it will ignore any results which include both the keyword "art" and the keyword "paint" in the description.

WITH	AAN/(GOOGLE) WITH AAR/(EYEFLUENCE)	The WITH operator will search for data fields in a single transaction record. For example, the search for GOOGLE as assignee WITH EYEFLUENCE as assignor will result in the patents that were directly transferred to GOOGLE from EYEFLUENCE. Take US8885877B2 as an example: Q1: AAN/(google) AND AAR/(EYE-COM) AND pn/US8885877B2 → 1 result: wrong result for non-direct transfer Q2: AAN/(google) WITH AAR/(EYE-COM) AND pn/US8885877B2 → 0 result: correct result for non-direct transfer Q3: AAN/(google) WITH AAR/(EYEFLUENCE) AND pn/US8885877B2 → 1 result: correct result for direct transfer The WITH syntax operator is used between assignment data fields (in a pair): Assignment assignee & assignor (AAN, AAR), Licensee & Licensor (LNE, LNO), Pledgee & Pledgor (PGE, PGO). Note: Do not embrace the query with additional parenthesis, or the WITH syntax operator will not work well, such as (AAN/(GOOGLE)) WITH AAR/(EYEFLUENCE)→ wrong result because a pair of parenthesis “()” separates AAN/ from WITH.
	AAN/(GOOGLE) WITH DUR/2017* AAN/(GOOGLE) WITH AAR/(EYEFLUENCE) WITH DUR/2017*	The DUR syntax keyword will search for transaction records occurred during a specific time period. Query Example: Q4: AAN/(google) AND TRD/2013* AND pn/US8885877B2 → 1 result: wrong result because the transaction record of google as assignee in this patent is not in 2013 but in 2017 Q5: AAN/(google) WITH DUR/2013* AND pn/US8885877B2 → 0 result: correct result Q6: AAN/(google) WITH DUR/2017* AND pn/US8885877B2 → 1 result: correct result

“ ” (Space)	FCLH/(G06F9 G06F3)	In Syntax Keyword search or Quick Search, space equals to “AND”. You can use space to separate two keywords. In Advanced Search, space will be converted to “OR” or “AND”, depending on your selection.

Keywords			
Data Field	**Syntax**	**Example**	**Notes**
Title	TTL	TTL/Antibacteri* TTL/"Carbon nanotubes"	You can build a query using the original language of the application or English. *The search results may be different due to a delay in the English translation.
Description	SPEC	SPEC/Antibacteri*	
Claims	ACLM	ACLM/emitting	
Abstract	ABST	ABST/"Carbon nanotubes"	You can build a query using the original language of the application or English. *The search results may be different due to a delay in the English translation.
Full-Text	FULL	FULL/"bowling ball"	This is the default field. You may enter a query without any syntax.
Title, Abstract and Claim	TAC	TAC/(computer notebook)	This will simultaneously search for the patents with the keywords found together in either the title, or the abstract, or the claim sections. e.g. TAC/(computer notebook) = TTL/(computer AND notebook) OR ABST/(computer AND notebook) OR ACLM/(computer AND notebook)

		TAC/computer AND TAC/notebook	This will simultaneously search for the patents with the keywords that must be found in either the title, or the abstract or the claim sections. e.g. (TTL/computer or ABST/computer or ACLM/computer) AND (TTL/notebook or ABST/notebook or ACLM/notebook)
Abstract and Claim	AC	AC/(computer notebook)	This will simultaneously search for the patents with the keywords found together in the abstract or the claim sections. e.g. AC/(computer notebook) = ABST/(computer AND notebook) OR ACLM/(computer AND notebook)
		AC/computer AND AC/notebook	This will simultaneously search for the patents with the keywords that must be found in either the abstract or the claim sections. e.g. AC/computer AND AC/notebook = (ABST/computer or ACLM/computer) AND (ABST/notebook or ACLM/notebook)

Near	NEAR(?)	TAC/((computer notebook tablet phone) NEAR3 (wireless communication transmission))	1. The "?" denotes the range of words within which to search for the keyword pairs. Range is unlimited. 2. The maximum number of keyword pairs to search for is 300. 3. The NEAR operator must be used together with a syntax keyword, as seen in the example. 4. Using two or more consecutive NEAR operators is NOT allowed. For example: TTL/((REFERENCE SIGNAL) NEAR1 device NEAR1 execution) is not allowed. 5. Only up to three NEAR operators (non-consecutive) can be used in a query. For example: TTL/((REFERENCE SIGNAL) NEAR1 device) AND TTL/(device NEAR1 transmitting) AND TTL/(device NEAR1 receiving) is allowed due to a total of three NEAR operators used in three different syntaxes. 6. While using near operator in search query, quotation("") and asterisk(*) are not supported. Note: When using NEAR, do not use quotation marks (“ “) in your query.

Dates			
Data Field	**Syntax**	**Example**	**Notes**
Appl. Date	APD	APD/[20081101 -> 20081130]	
Pub. Date	PD	PD/200311*	

Issue Date	ISD	ISD/[20081101 -> *]	
Pub. Date (Gazette)	PDG	PDG/[20170102->20180102]	
Earliest Priority	EPRD	EPRD/2017*	
Earliest Appl.	EAPD	EAPD/2017*	This is used for calculation of the (est.) expiration date. This is also known as the Earliest Effective Filing Date of the application for purposes of a patent term.
Issue/Pub. Date	PID	PID/2017*	Publication or Issue Date
Party			
Data Field	**Syntax**	**Example**	**Notes**
Inventor	IN	IN/"CHEN Yun Lung"	This field can be used to search for both the original and the standardized name.
Inventor Address	INAD	INAD/Shenzhen	
Inventor Country	ICN	ICN/(CN or US or TW)	
Assignee / Applicant	AN	AN/"Tesla Motors"	This field can be used to search for both the original and the standardized name.
Curr. Assignee	CAN	CAN/"Tesla Motors"	This field can be used to search for the current assignee.
Assignee Address	ANAD	ANAD/Taipei	
Agent	LREP	LREP/Weingram	

Examiner	EXP	EXP/John*	Only available for US and JP patents.
All Parties	PARTY	PARTY/Microsoft	Includes assignee, agent, inventor, etc.
Number			
Data Field	**Syntax**	**Example**	**Notes**
Appl. No.	APN	APN/"11/616909"	
Pat. No.	PN	PN/US774947* PN/CN102625944A	This field can be used to search for published patent applications and granted patents. The number includes Pub. No.and Issue No.
Patent Office	CC	CC/US	The Country Code is a two-letter code used to indicate the country or organization of the application. See the country code list.
Kind Code	KD	KD/B	
Classification			
Data Field	**Syntax**	**Example**	**Notes**
IPC	ICL	ICL/G06F019/00	
Main IPC	MICL	MICL/G06F0019*	
Locarno	LOCS	LOCS/07-02	
Main Locarno	MLOC	MLOC/21-01	
USPC	CCL	CCL/370/329	
Main USPC	MCCL	MCCL/70/264	
CPC	CPC	CPC/H01L033/54	

Main CPC	MCPC	MCPC/H01L*	
FI	FCL	FCL/G06F9/00,320A	JPO "File Index" (FI) classification.
Classification (Heirarchy)			
Data Field	**Syntax**	**Example**	**Notes**
IPC (Hierarchy)	ICLH	ICLH/(G01N33/487)	When hierarchy syntax is used, the search results will include the patents in a lower classification as well. For example, a syntax parameter of ICLH/(G01N33/487) will also search for patents in the subgroup of ICLH/(G01N33/49) because G01N33/49 is under the subgroup of G01N33/487. More specifically, US20160136639A1 has an IPC of G01N33/49 as opposed to G01N33/487, and it should not be included as a result of ICL/(G01N33/487). However, the subgroup of G01N33/49 is under G01N33/487, so US20160136639A1 will be included in the results of ICLH/(G01N33/487). Note: An asterisk “*” is not necessary when the hierarchy syntax is defined.
Main IPC (Hierarchy)	MICLH	MICLH/G06F019	
USPC (Hierarchy)	CCLH	CCLH/370/329	
Main USPC (Hierarchy)	MCCLH	MCCLH/70/264	
CPC (Hierarchy)	CPCH	CPCH/H01L033/54	
Main CPC (Hierarchy)	MCPCH	MCPCH/H01L	
FI (Hierarchy)	FCLH	FCLH/G06F9/00,320A	
Assignment Data			
Data Field	**Syntax**	**Example**	**Notes**
Reassignment	AOAI	AOAI/Y	Denote if Transfer/Licensing/Pledge happened, ignoring the transfer with the inventor as the assignor.

# of RSGMT	ANT	ANT/3	Search for Not Less Than the number input. E.g. ANT/3 Search for patents with the number of Assignments not less than 3.
Assignor (RSGMT)	AAR	AAR/"APPLE, INC."	
Assignee (RSGMT)	AAN	AAN/"APPLE, INC."	
Transfer Date	TRD	TRD/2015*	The date of the assignment.
Agent (RSGMT)	CNA	CNA/"Fish & Richardson"	
Licensing	PLN	PLN/Y	
Licensor	LNO	LNO/"APPLE, INC."	
Licensee	LNE	LNE/"APPLE, INC."	
Licensing Date	LND	LND/2015*	
Pledge	PPG	PPG/N	
Pledgor	PGO	PGO/"APPLE, INC."	
Pledgee	PGE	PGE/APPLE	
Pledge Date	PGD	PGD/2015*	
Date of RSGMT	DUR	DUR/2017*	Transfer/Licensing/Pledge Date. Please refer to “WITH” syntax operator for more usages.
Change of Name	NC	NC/"Apple Inc" NCB/"GitHub" AND NCA/"Microsoft"	Looking assignee name change on which company's was before (from), please use NCB. For name change after (to), please use NCA.

Name Change Date	NCD	NCD/2018*	
Patent Ranking			
Data Field	**Syntax**	**Example**	**Notes**
Patent Quality	QRANK	QRANK/3->*	Our model for Quality takes into consideration (based on publication/issue information before it is published) : - The qualifications and profile of the attorney. - The qualifications and profile of the examiner. - The number of the potential prior art. - The structure of independent and dependent claims. Each ranking is based on a score calculated using our model: (5) AAA : Score is in the top 3% (4) AA : 3% - 10% (3) A : 10% - 25% (2) B : 25% - 50% (1) C : 50% - 75% (0) D : Below 75% E.g.: The value of 3 represents "A." Therefore, 3->* represents values above "A."

Patent Value	VRANK	VRANK/3->*	Our model for Value takes into consideration (based on publication/issue information before it is published): - The qualifications and profile of the inventor. - The qualifications and profile of the applicant. - The stage of technology lifecycle citation(s). - Citation(s). - Pre-grant assignment and licensing. Each ranking is based on a score calculated using our model: (5) AAA : Score is in the top 3% (4) AA : 3% - 10% (3) A : 10% - 25% (2) B : 25% - 50% (1) C : 50% - 75% (0) D : Below 75% E..g.: The value of 3 represents "A." Therefore, 3->* represents values above "A."
Status Data			
Data Field	**Syntax**	**Example**	**Notes**

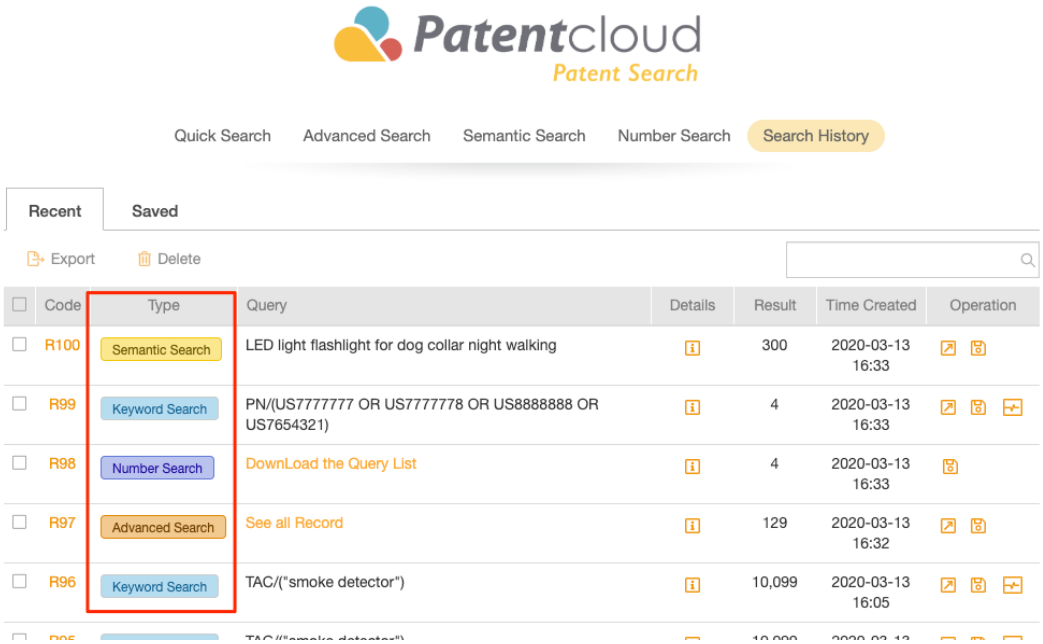
Legal Status	LLS	LLS/3	Legal Status is selected from： (1) Pending: Patents application yet to be granted. (2) Examination. (3) Active - Granted. (4) Abandoned: Patents abandoned, withdrawn, or not paid for by applicant or assignee. (5) Expired: Patents expired because the patent term is due. (6) Revoked ab initio: Patents invalidated after grant. (7) PGPub - Granted: Application that has been issued. (8) Reissued. E.g.: The value of 3 represents "Active - Granted".
(Est.) Exp. Date	ESED	ESED/2025*	The estimated expiration date is based on the patent office, patent type, and application/issue date, and is only available for an active patent. If the estimated expiration date is before the system updating date (e.g. today), or if any abandon event occurs, the estimated expiration date will no longer be searchable and an inactive date of the patent can be found. If the patent type is “other”, it will be presumed to be “Utility Patent”. Otherwise certain parameter(s) (e.g. kind code) can help determine the date. We don’t calculate the estimated exp. the date for SPC (Supplementary protection certificate).
Abandon Date	ABDD	ABDD/2015*	The date of Abandonment, Withdrawal, and Non-payment.

Abandon Type	ABDT	ABDT/1	Abandon Type is selected from： (1) Abandoned Appl. (2) Withdrawn (3) Lasped (4) No Active State
Designated State (Coming Soon)	DS	DS/DE	Enter Country Code to search for EP and WO patent designated states.
# of State (Coming Soon)	DSN	DSN/1	Search for not less than the number input. E.g. DSN/1 search for patents with the number of designated states not less than 1.
Active State (Coming Soon)	DSA	DSA/DE	Enter Country Code to search for EP and WO patent designated states (active state).
Inactive State (Coming Soon)	DSI	DSI/DE	Enter Country Code to search for EP and WO patent designated states (inactive state).
Pending State (Coming Soon)	DSP	DSP/DE	Enter Country Code to search for WO patent designated states (Pending).
National-Phase State (Coming Soon)	DST	DST/DE	Enter Country Code to search for WO patent designated states (National-Phase).
# of Active State (Coming Soon)	DSNA	DSNA/1	Search for not less than the numbet input. E.g. DSNA/1 search for patents with the number of active designated states not less than 1.
# of Inactive State (Coming Soon)	DSNI	DSNI/1	Search for not less than the number input. E.g. DSNI/1 search for patents with the number of inactive designated states not less than 1.
# of Pending State (Coming Soon)	DSNP	DSNP/1	Search for not less than the number input. E.g. DSNP/1 search for patents with the number of pending designated states not less than 1.

# of National-Phase State (Coming Soon)	DSNT	DSNT/1	Search for not less than the number input. E.g. DSNT/1 search for patents with the number of national-phase designated states not less than 1.
Others			
Data Field	**Syntax**	**Example**	**Notes**
Patent Type	TYPE	TYPE/(1 or 2)	1. Utility Patent. 2. Utility Model. 3. Design. 4. Plant. 5. Other.

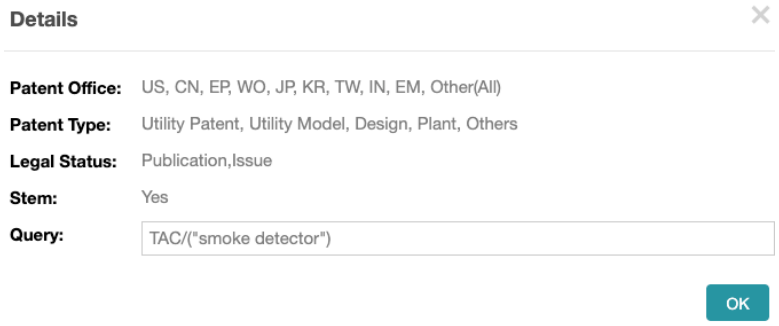
Search History

Patent Search automatically saves your most recent 100 search records within the Search History section.



You can also do the following on the Search History tab:

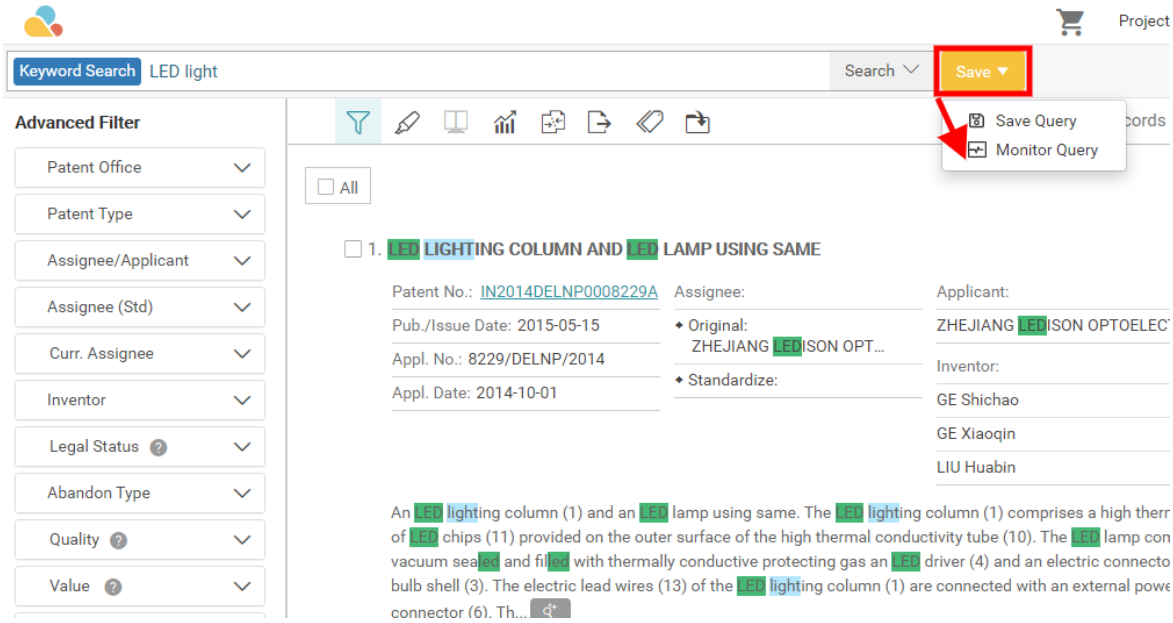
- **Apply**: Click on the **Apply** icon to add do the apply the query in the search type that it was previously used (i.e. R100 query will be opened in Semantic Search query page while R99 will be in Quick Search).
- **Save**: Click the **Save** icon to store the search criteria. Access the saved records in the Saved tab under Search History.
- **Monitor Query**: Click on the **Monitor Query** icon to monitor search result updates of the selected search query. This is only available for Keyword Search (done via Quick Search or Advanced Search). *Note: This feature is only available to Patent Search subscribers who also purchased Patent Vault.*
- **Export**: Select the search queries to export (to an Excel file), and then click the **Export** icon Export .
- **Code**: Click on the corresponding **code** R100 (i.e.) to run that exact same search again and directly see the results page.
- **Details**: Click on the **Details** icon to see the search settings that were used for that query.



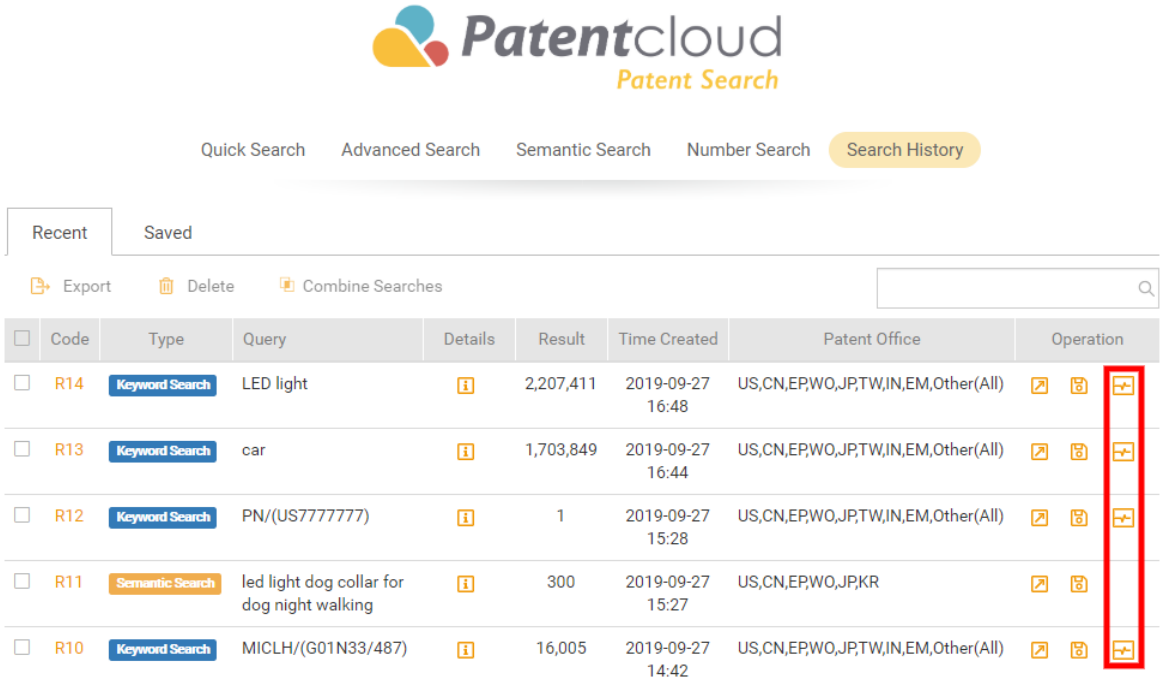
Monitor Query

Query monitoring is available for Patent Search subscribers who also purchased Patent Vault. This feature allows you to automatically monitor and display the results of your monitor query on a predetermined schedule. To use Monitoring, follow the steps below:

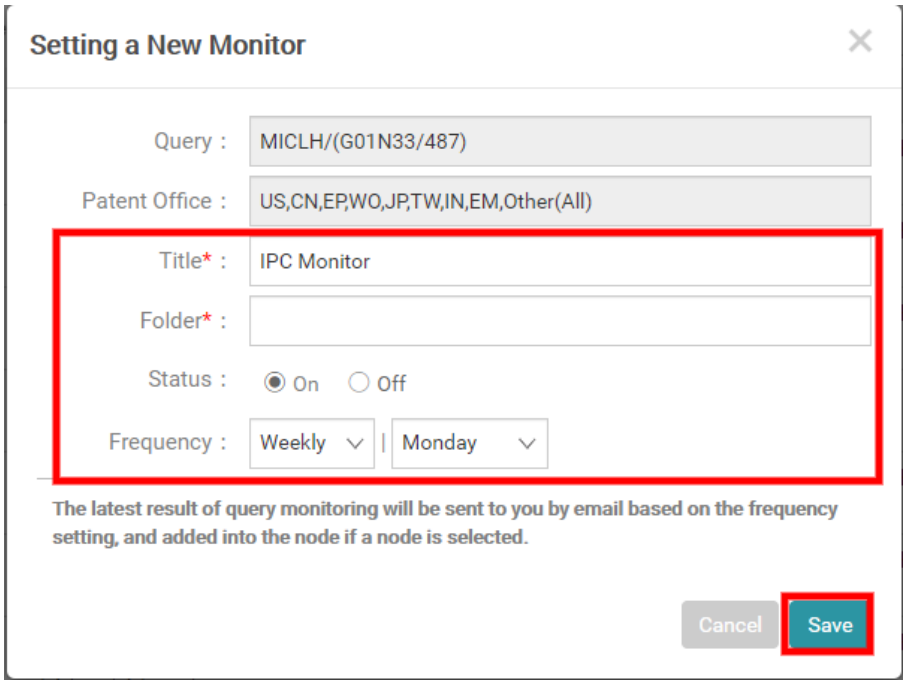
1. On Patent Search, enter a query and click on Search.
2. On the search results page, click on the **Save** dropdown button and choose **Monitor Query** to set up a new monitor.



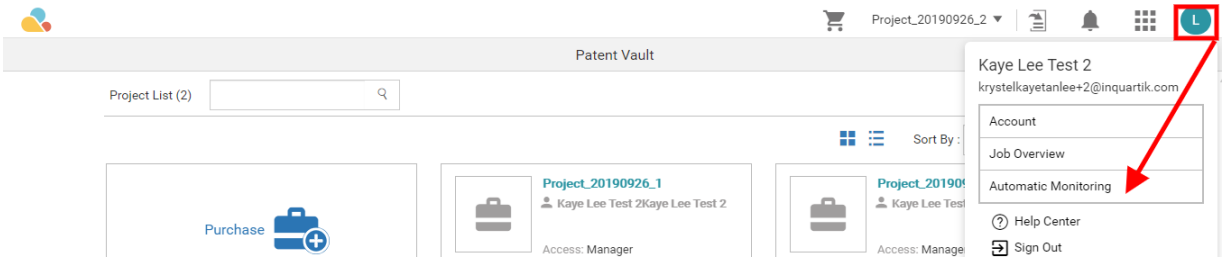
3. If you have previously done a search query and want to monitor the same, you can access this in **Search History**.



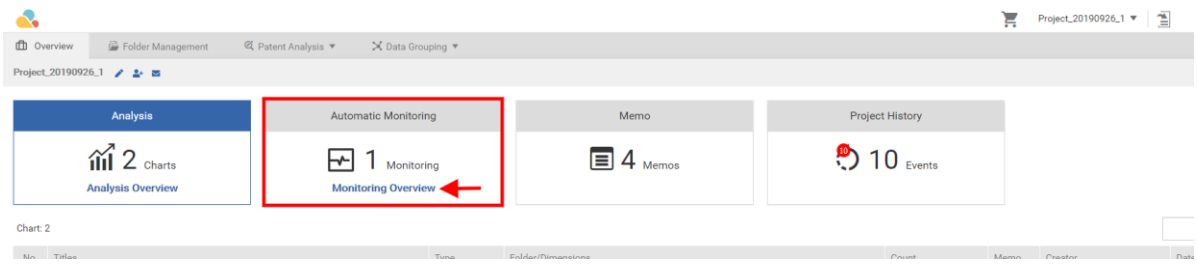
4. Once you click on Monitor Query, you can set a Title and save it into an existing folder in your Patent Vault project or create a new folder, and set the notification frequency.



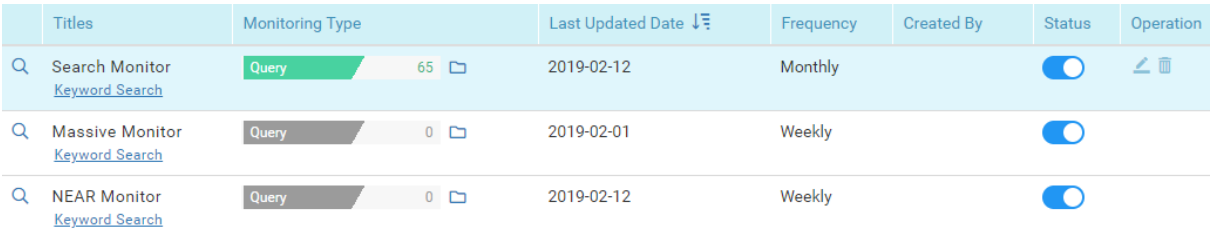
5. There are two ways to view status updates of queries being monitored: first, click on your Account icon and select **Automatic Monitoring**.



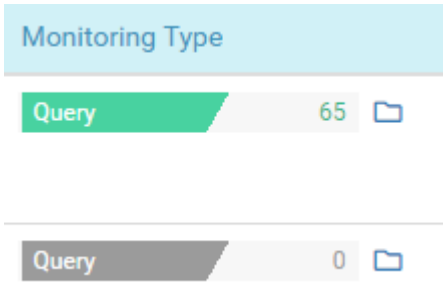
Second way is to go to your project Overview and click on Monitoring Overview under Automatic Monitoring.



6. In the A**utomatic Monitoring** page, you will see your queries here. Once new results are available, the update status bar will change from gray to green. The number of new patents available will be included as well.



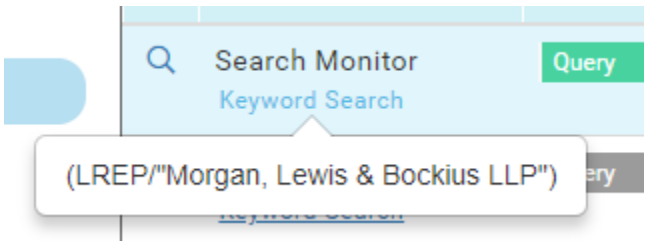
If you add the patents from the search results of the monitoring query to Project, simply click on the folder icon (which is located right next to the update status bar) to access the folder containing the search results.



7. Automatic Monitoring feature gives you a more aesthetically pleasing and easy to navigate user interface. Further introductions are below:

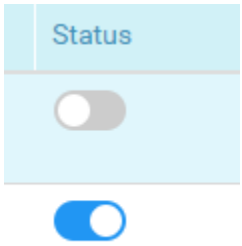
    - Quick Search link

    Click on the "Keyword Search" link located under the title to perform a brand new search with the same query. Alternatively, just hover the cursor over it to get a reminder of the search parameters.



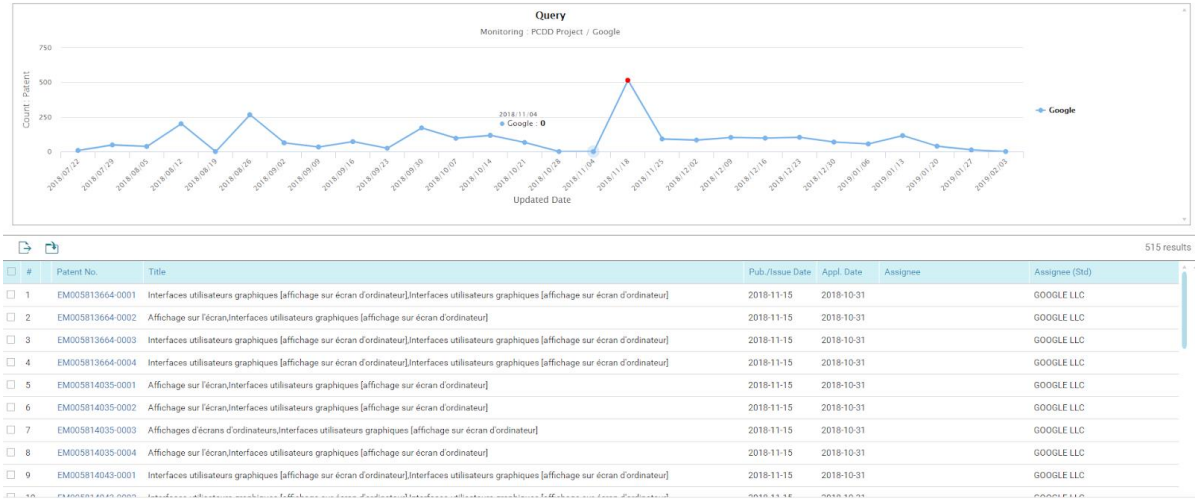
    - Status Toggle

You can start and stop monitoring with a single click: the newly-added status toggle means that you will no longer need to access the edit window



- Monitoring Results Chart

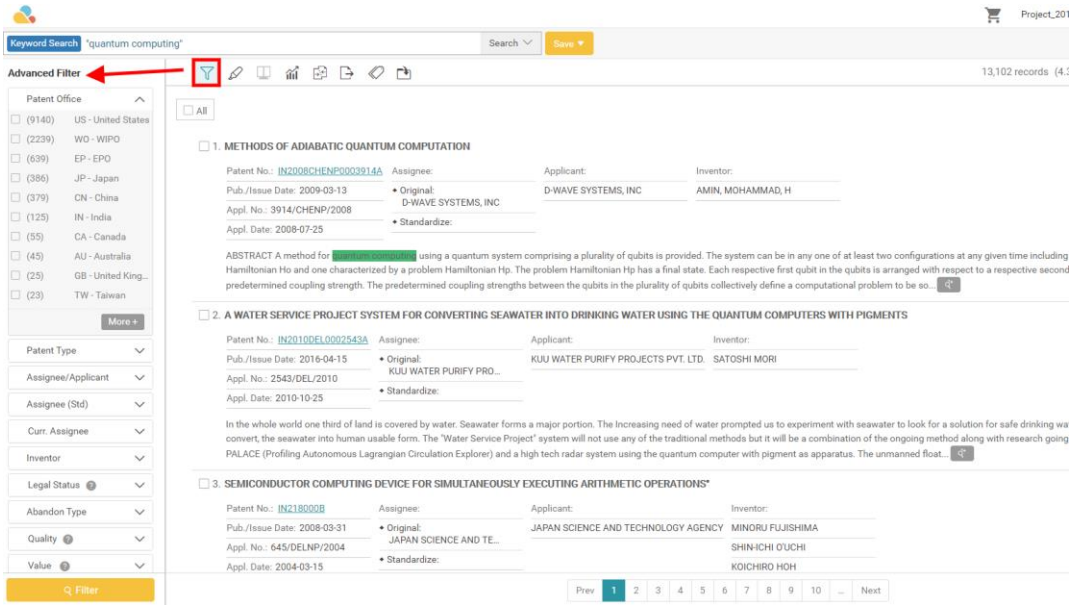
Never miss a new patent again: click on the Monitor Type bar to browse through the update history with the convenient chart and click on any dot to view the details relating to the corresponding date. Additionally, you can add to Project and/or export the data.



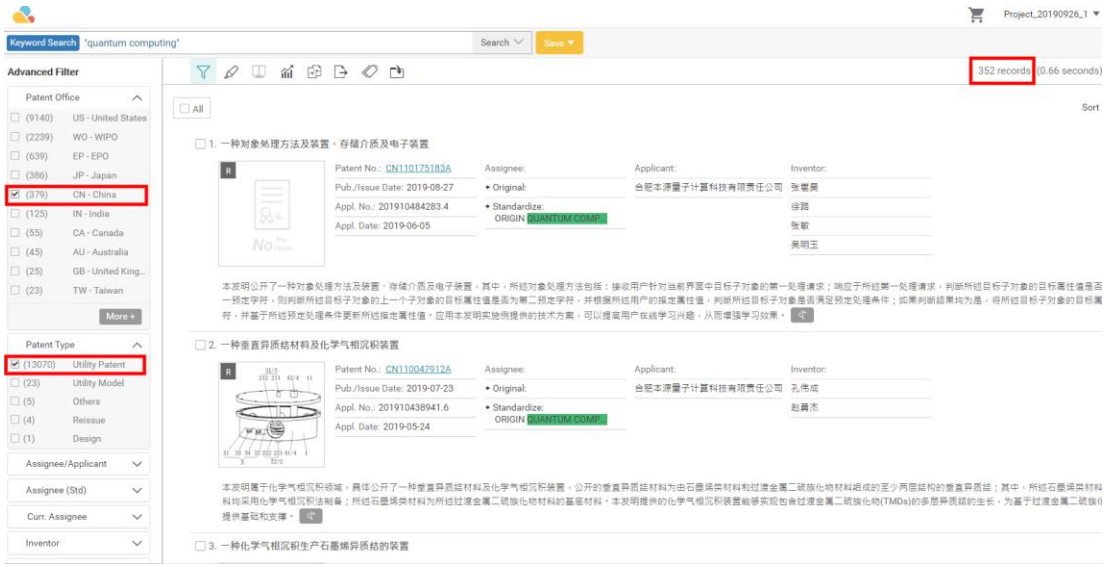
Advanced Filter

Patent Search users can further filter the search results by using the advanced filters on the left-side of the search results page. You can filter your results by PTO, patent type, assignee/applicant, assignee (Std), current assignee, inventor, legal status, abandon type (for abandoned legal status), quality, value, IPC, CPC, Locarno, USPC, FI, agency, primary examiner, and kind code. Each filter shows the first 10 items - click on **More+** to show the next 10.

Note: Make sure to click on the filter icon to show Advanced Filter panel.



The number of matches beside the filter type is always based against the initial total search results and will not automatically update after filters have been applied. For this figure, you may refer to the upper right hand corner showing the number of records.

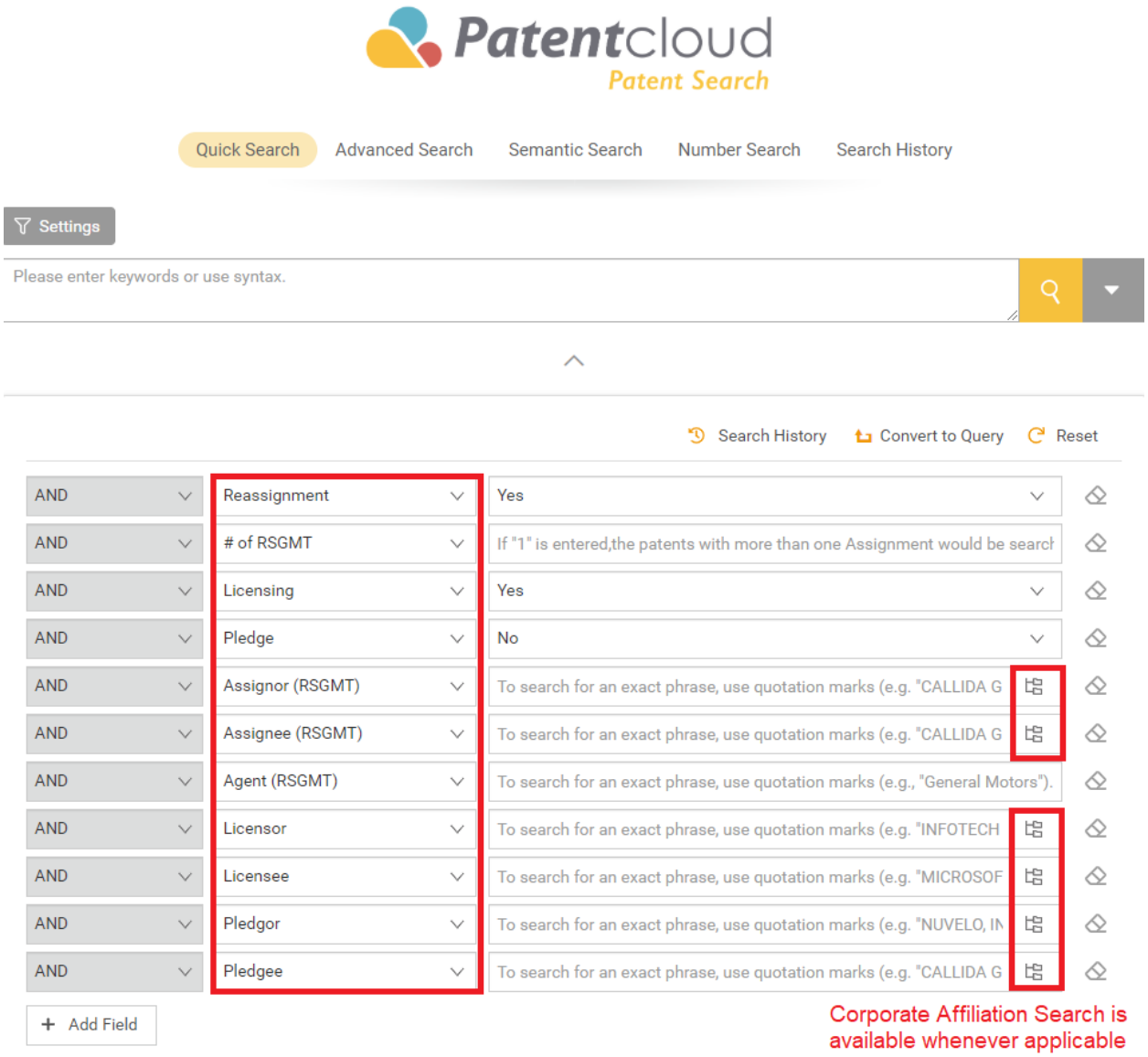


Assignment Data Query (Patent Transaction)

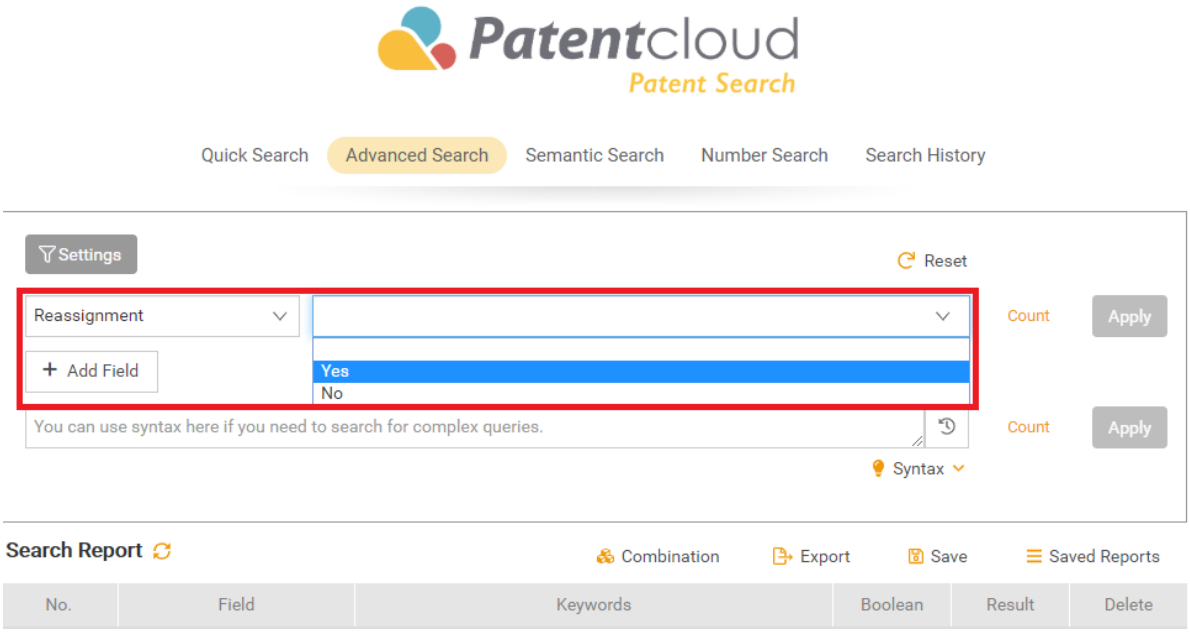
With Patent Search (PS) Advanced or Premium, it is possible to view the transaction history of each patent and to conduct an analysis on each patent based on its transaction history.

To use the assignment-related functions, follow the steps below:

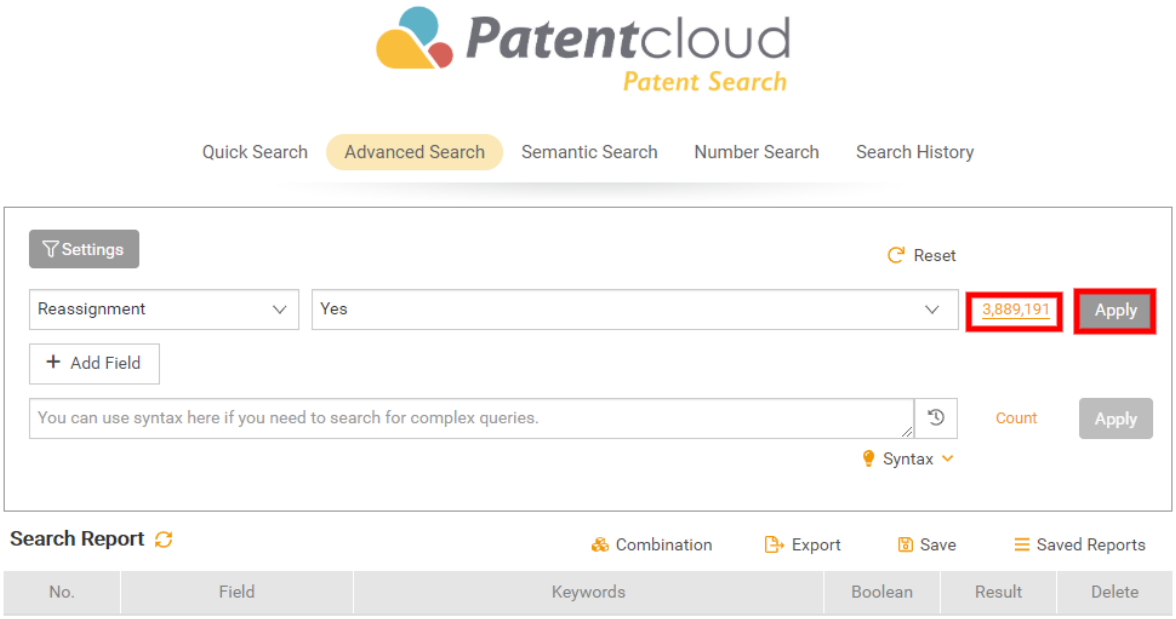
1. On **Quick Search** tab, Advanced or Premium users can access the **Assignment Data** fields by Reassignment, Number of Reassignment, Licensing, Pledge, Assignor (Reassigment=RSGMT), Assignee RSGMT, Licensor, Licensee, Pledgor, and Pledgee. See all syntax codes here.



2. On **Advanced Search**, select an Assignment data parameter and fill in the search box as required. Users can also use syntax codes, see the complete list here.



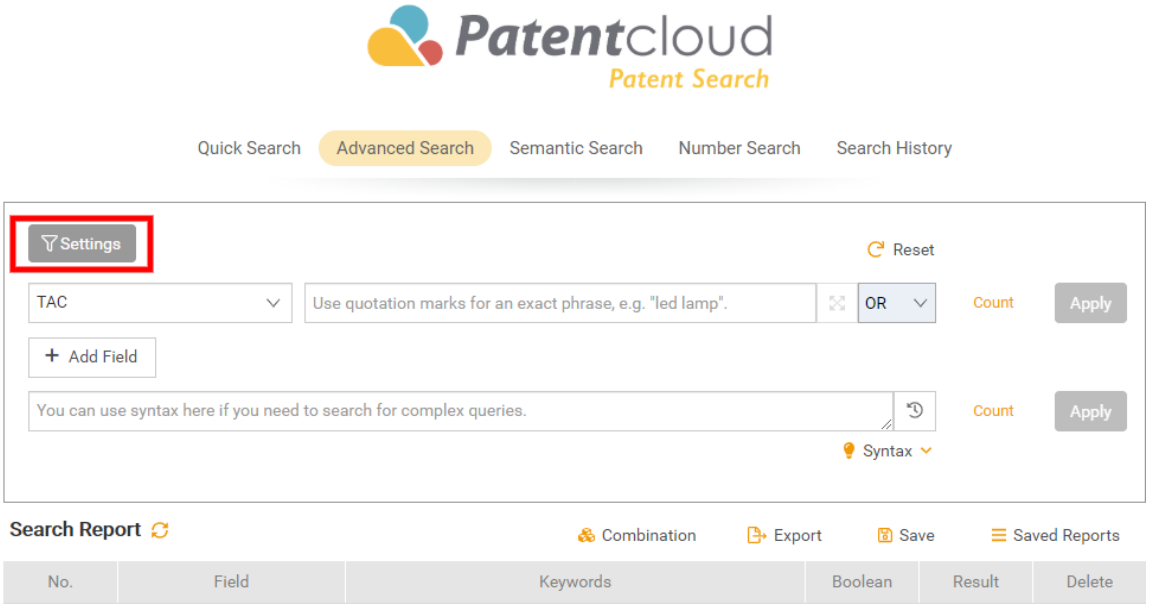
Click on Count to view the number of matching results and click on the resulting number to go to to search results page. Click on Apply to save for later and combine with other queries.



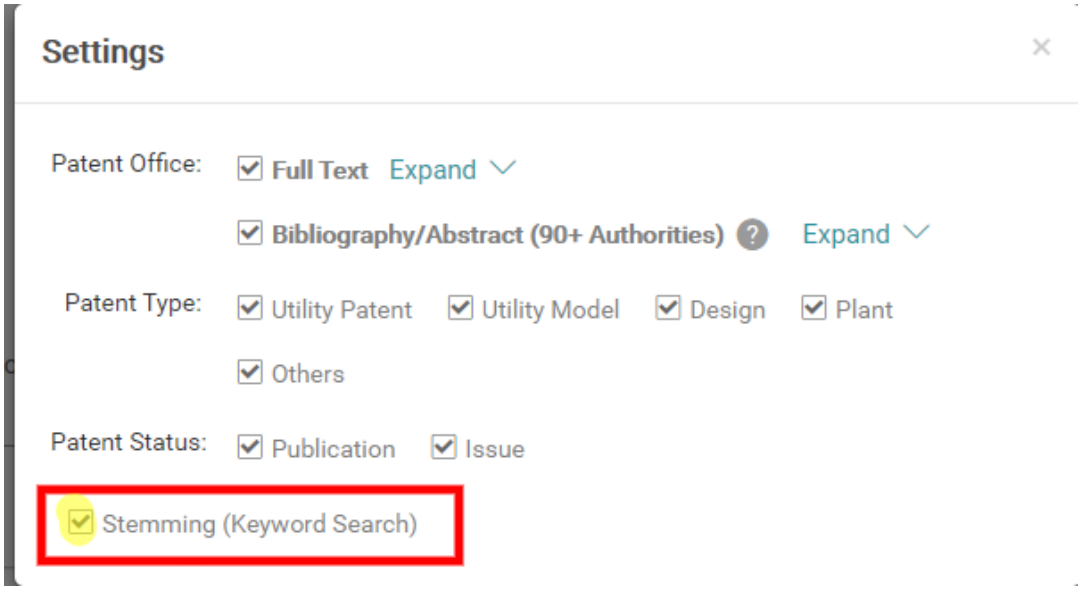
Stemming

When stemming is enabled, the Patent Search results will include words that have the same root as your search term. This helps to expand your search. For example, with a search term of “looking”, you will get a stemming result set that includes “look”, “looking”, or “looked”, because they share the same root—“look”. Stemming cannot be applied to any search term with a wildcard (“*” or “?”).

1. In Quick or **Advanced Search**, click **Settings**.



2. The setting box will pop out like this picture. Select **Stemming** to enable it.



Stop Words

Some words such as: “**a**,” “**the**,” “**of**” are considered “stop words.” These words appear so frequently that they have lost their usefulness as search terms. As a result, these stop words are not searchable terms in Patentcloud.

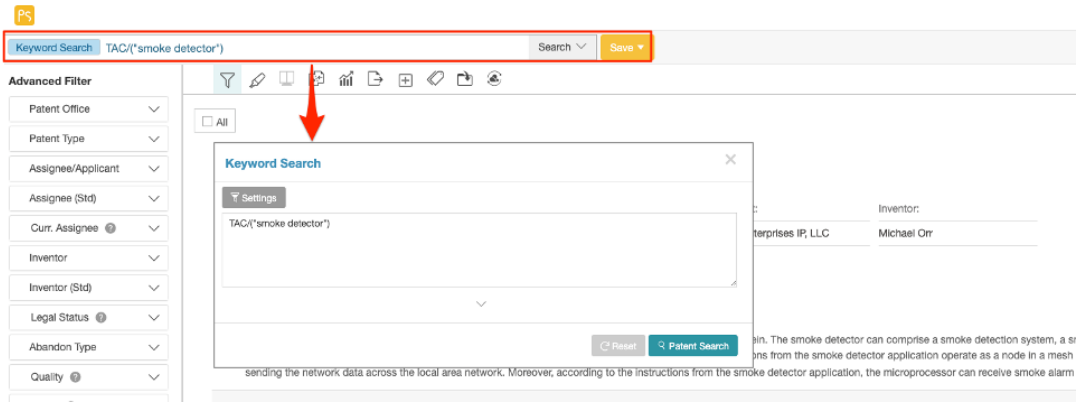
Result & Page View

Search Results

In this article, learn how to:

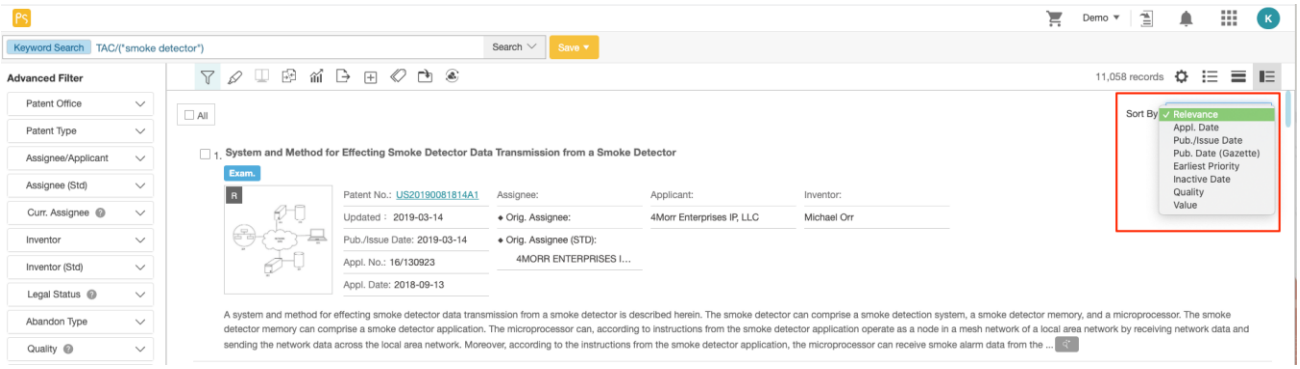
Edit Query

On the search results page, you can adjust the search string in the search box at the top of the page, and click on **Search** to run another query.

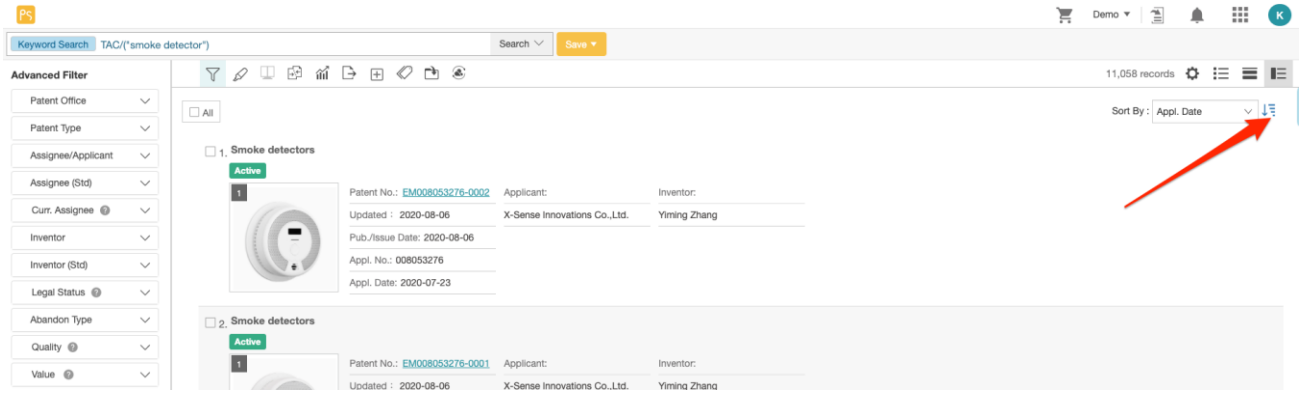


Sort Results

Search results are sorted by Relevance by default. To change, click on the dropdown button, and select to sort by Application Date, Publication/Issue Date, Publication Date (Gazette), Earliest Priority, Inactive Date, Quality and Value.

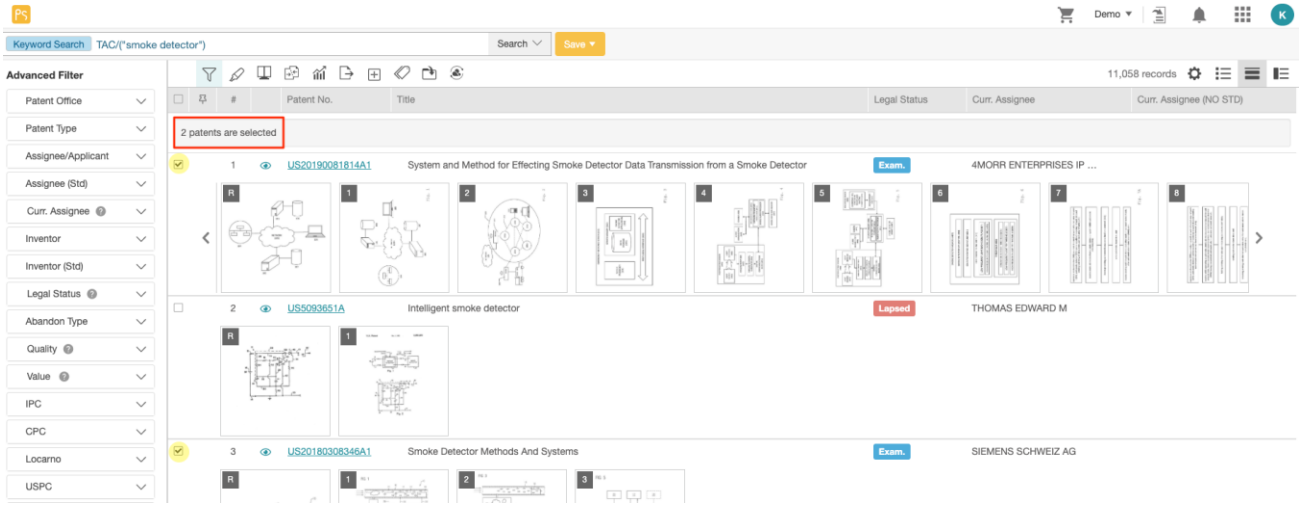


To change the Sort order (for items other than Relevance), a descending icon will display by default beside the Sort By box. Click on this icon to change to ascending order.



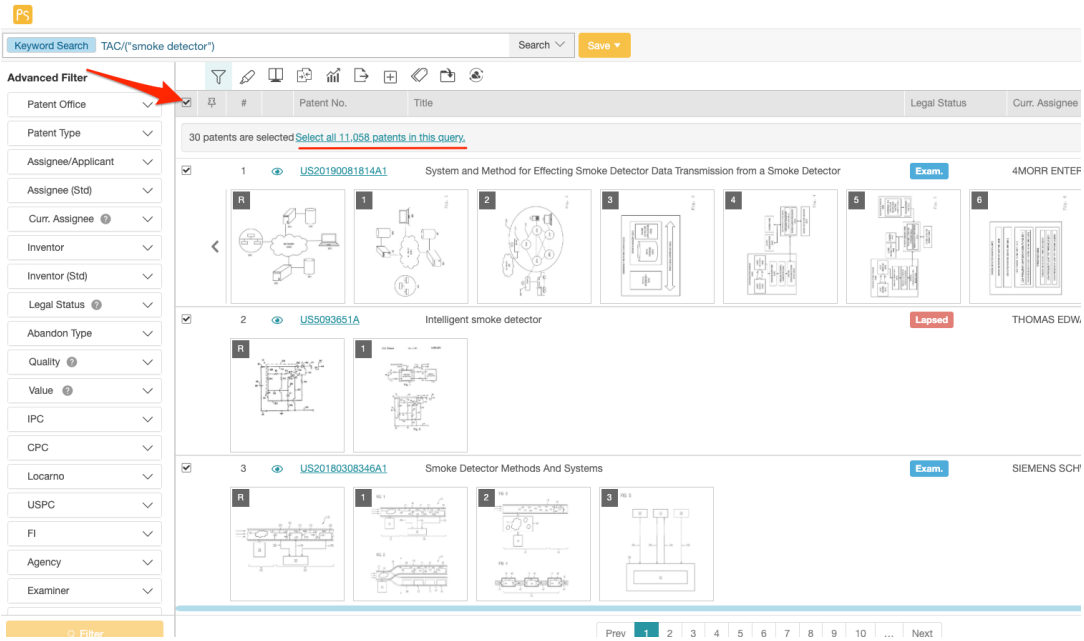
Select/Deselect Results

To select multiple results on a single page, simply tick the checkboxes beside the result number (regardless of the viewing mode used). The system will automatically display how many patents have been selected thus far.

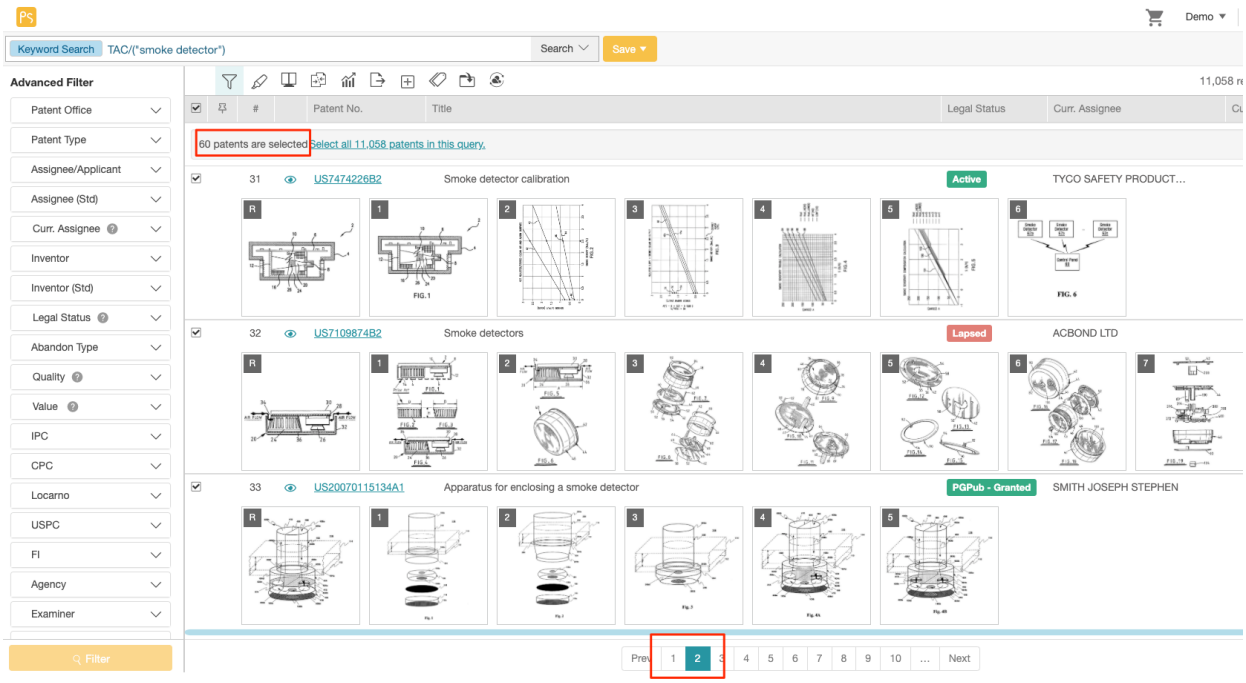


To adjust the number of results you can view on a single page, refer to the steps in this article.

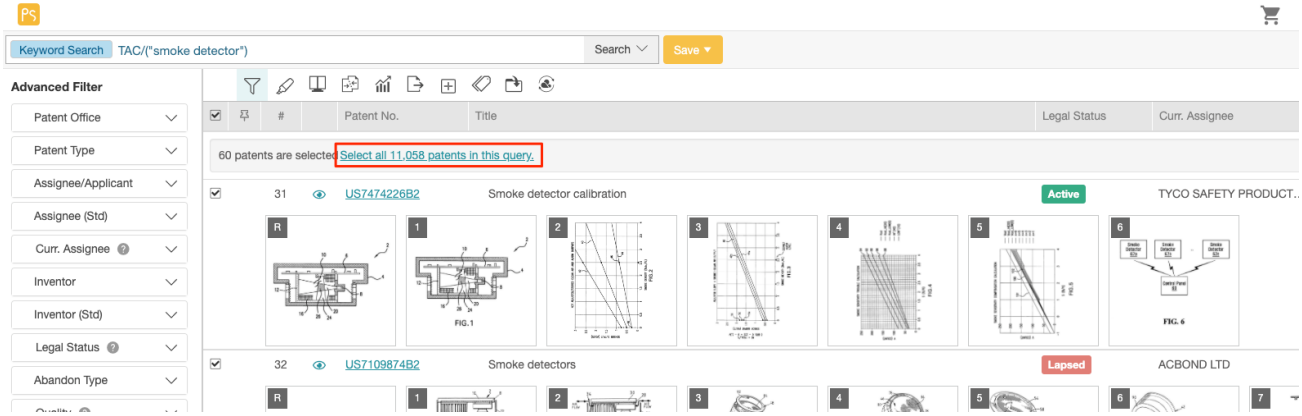
To select all the results on a single page, tick the checkbox for “All”. It will then give you an option to select all the results for that query (all results pages) at once.



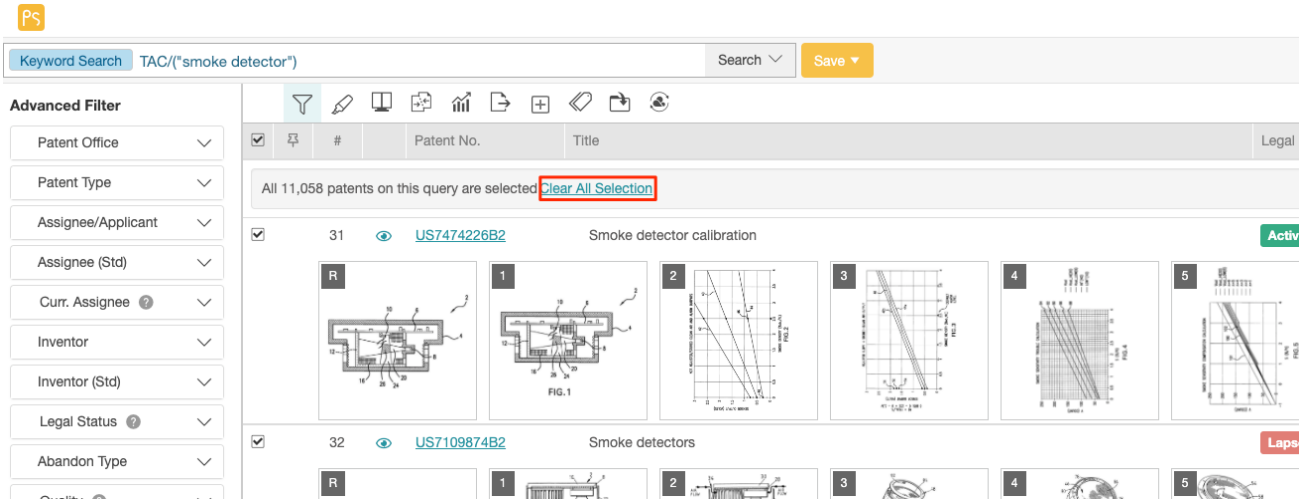
To select results from multiple pages, tick the checkbox for “All” on that specific page. Then, move to the next page with the results you wish to select, and tick the checkbox for “All” again. The system will automatically display how many patents have been selected thus far.



To deselect patents across multiple pages, first click on “Select all ## patents in this query”.

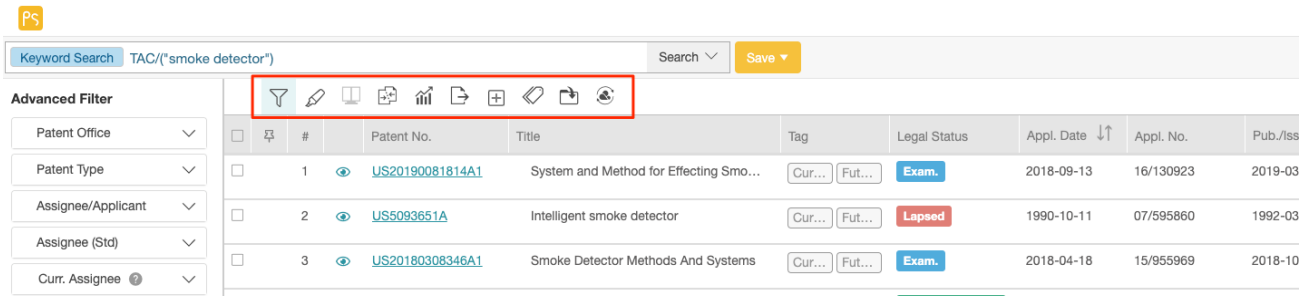


Then, tick on the topmost checkbox or click on Clear All Selection.



Search Results Tools

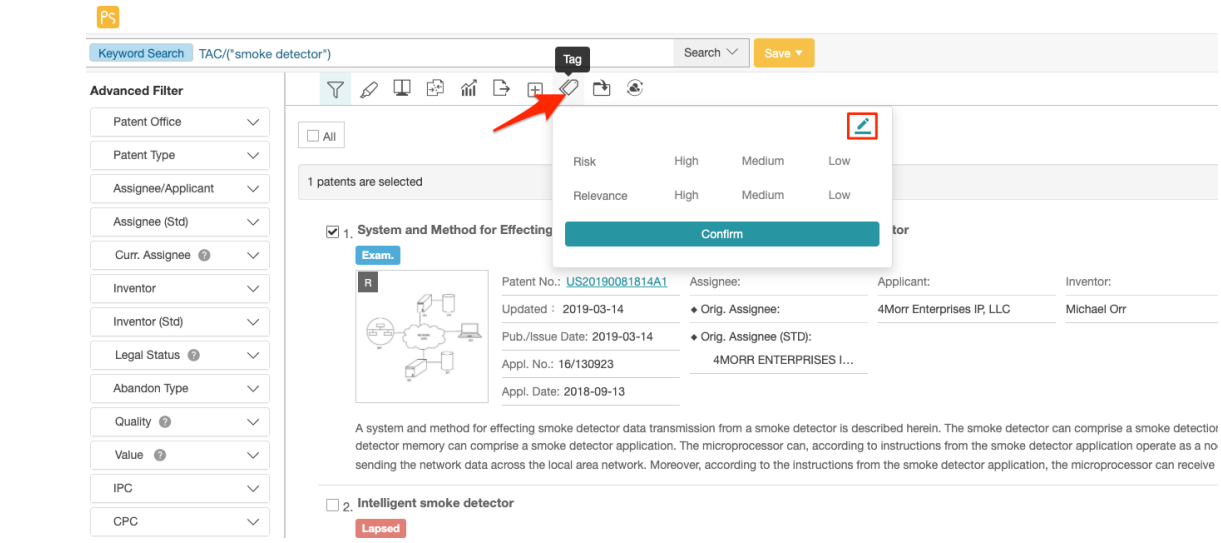
Patent Search users can use the Advanced Filter on the left panel, as well as search results tools on the upper section of the page.

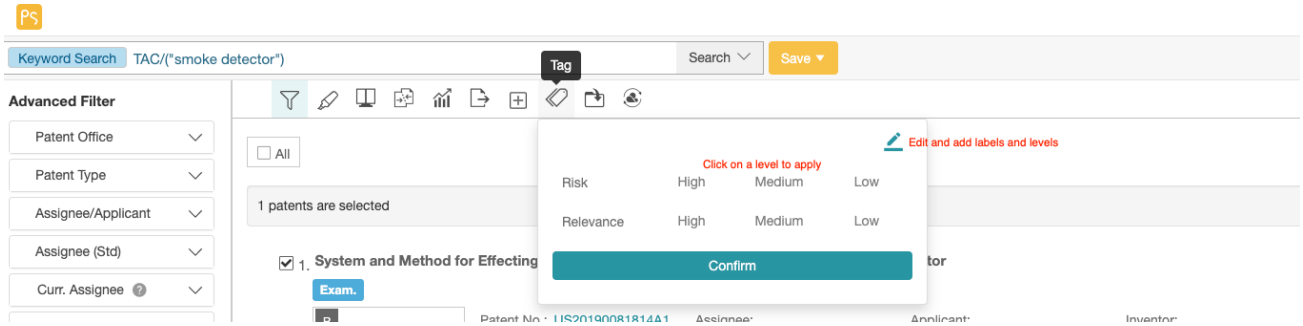


	Filters - to open the Advanced Filter panel
	Highlighter - to highlight keywords on the search results page
	Compare - to compare selected patents from the search results page
	Statistical Chart - to generate basic (line, bar, column and pie) charts based on search results
	Collapse - to collapse results by Family or by Application No.
	Expand - to expand results to show all of its Simply Family members
	Export[1] - to export patent list or PDF documents
	Tag - to apply self-defined tags to selected patents. All tagged patents will be saved in a separate Tag folder in your project. (only for Patent Search subscribers with Patent Vault)
	Add to Project - to add selected patents into folders in your project (only for Patent Search subscribers with Patent Vault)
	Forward to - to forward the selected patents to Due Diligence (for patent portfolio evaluation) and Quality Insights (for patent validity analysis)

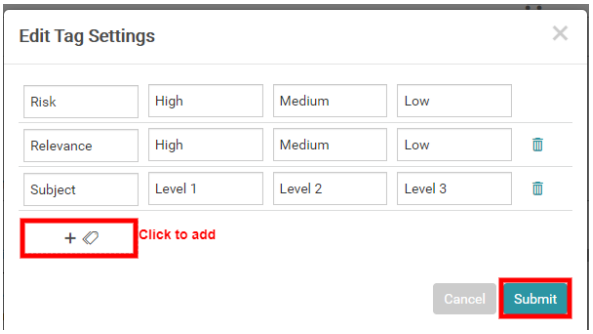
Keywords in your search are automatically highlighted on the search results page. To know more about Highlighter, please refer to this article.

For Patent Search subscribers with Patent Vault, you can Tag patents right on the search results page. Select the patents you want to tag and click on the **Tag** icon from the toolbar. You can choose from the default labels: Risk and Relevance, and select the type or ranking, say, either High, Medium, or Low. You can view the tagged patent/s in your Tagged folder on Patent Vault.



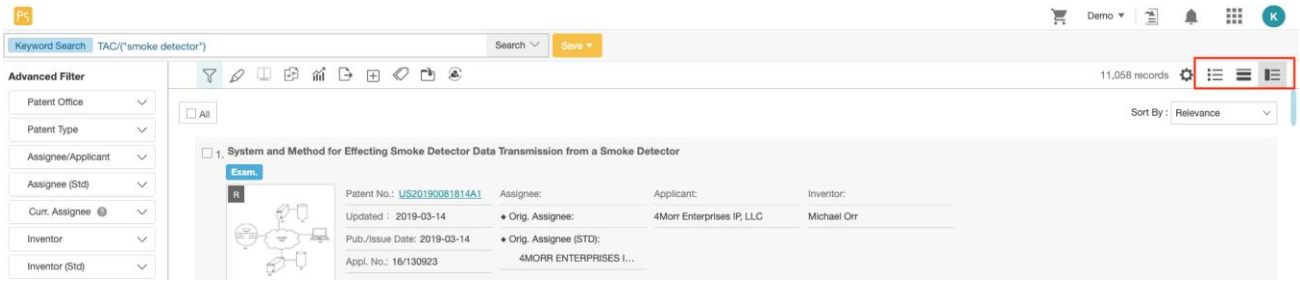


By clicking on the **Edit** button, you can customize your labels by editing the label dialog box. You can create a new label, give it a subject (used for comparison, which may include products, technology, patents, etc.), a label name, and a range.



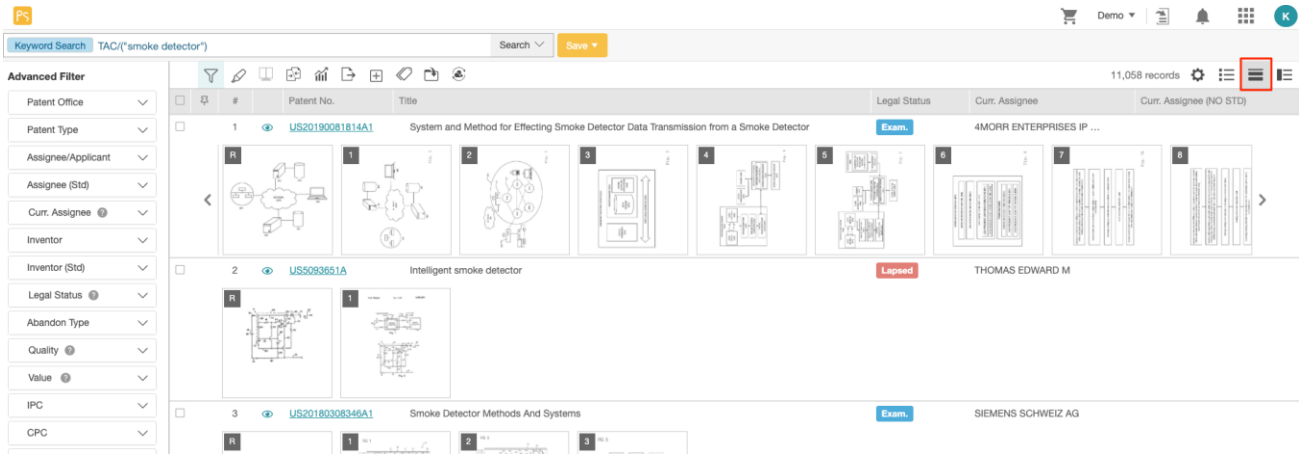
Use Different View Modes

Patent Search offers 3 different view methods: Gallery, Summary, and List. Click on the icons to quickly switch viewing modes.

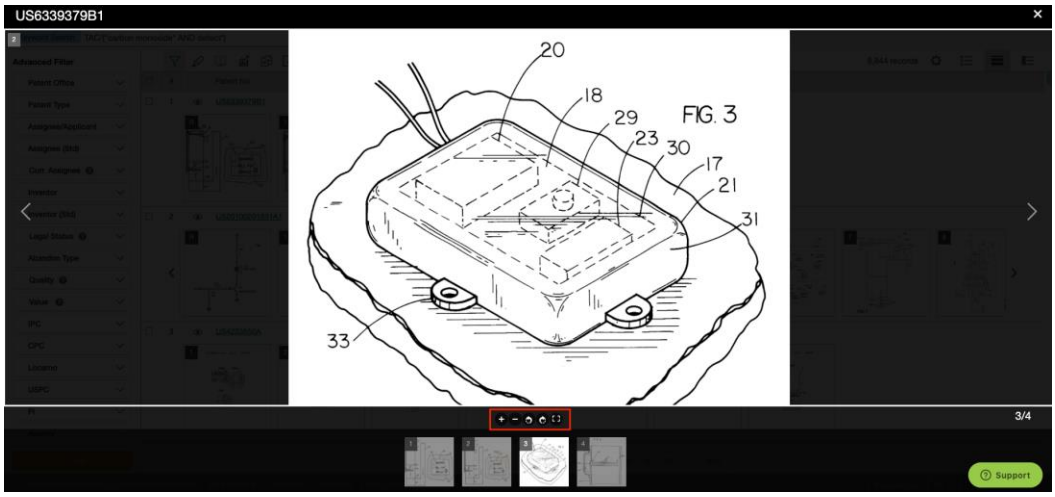


- Gallery Mode : View all of the patent figures right on the search results page

  To select which columns are displayed, please refer to this section.

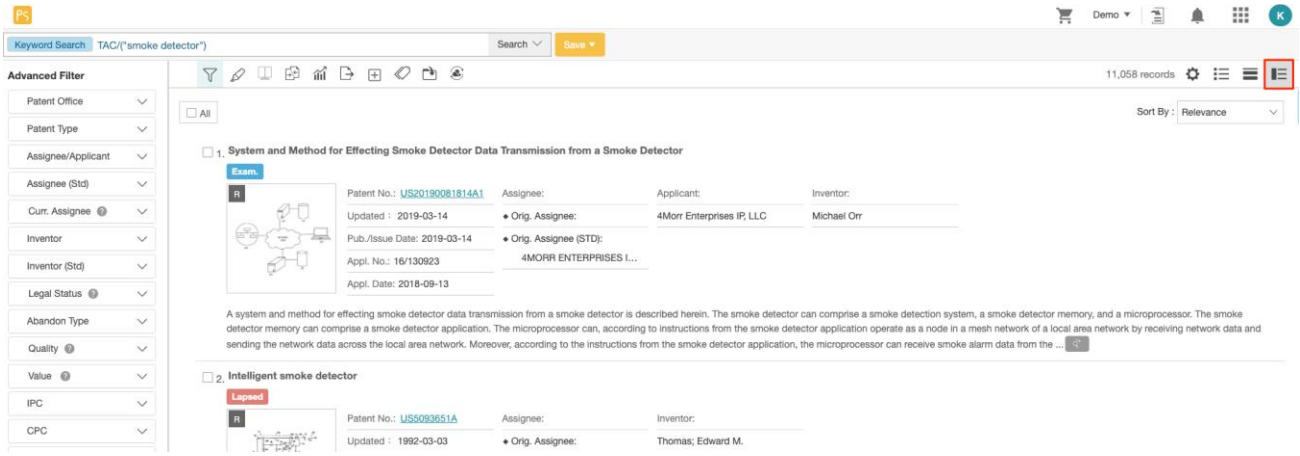


You can click on a patent figure to view available tools such as Zoom In, Zoom Out and Rotate.

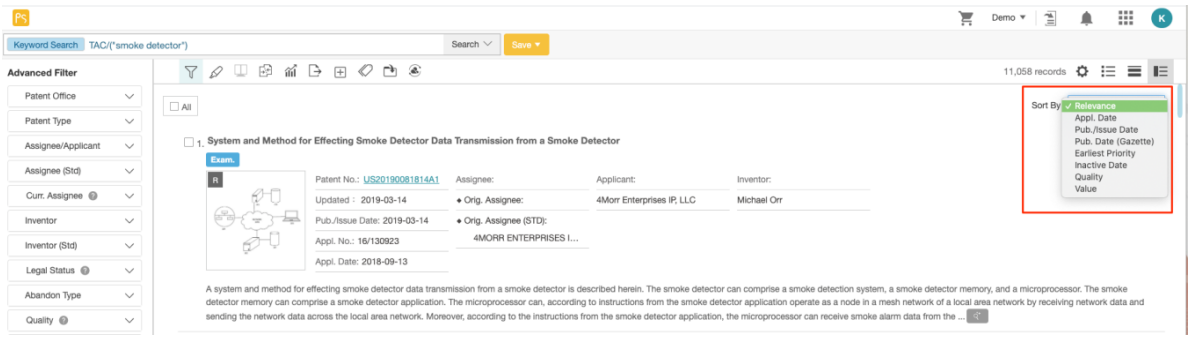


- Summary Mode : View the representative figure and bibliographical details

To select which fields are displayed, please refer to this section.

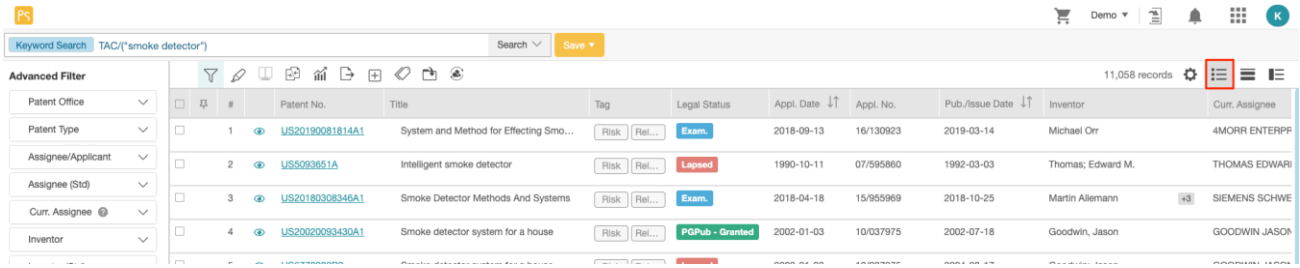


Select your **Sort By** preference in this view. It will apply to all other view modes.

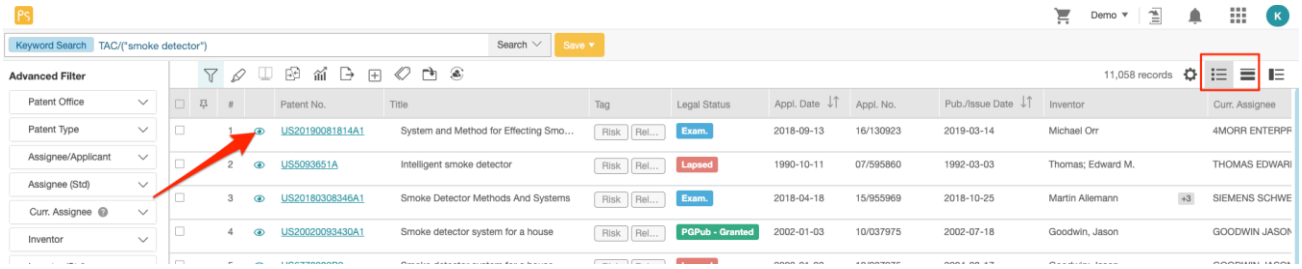


- List Mode : View patents in a list format

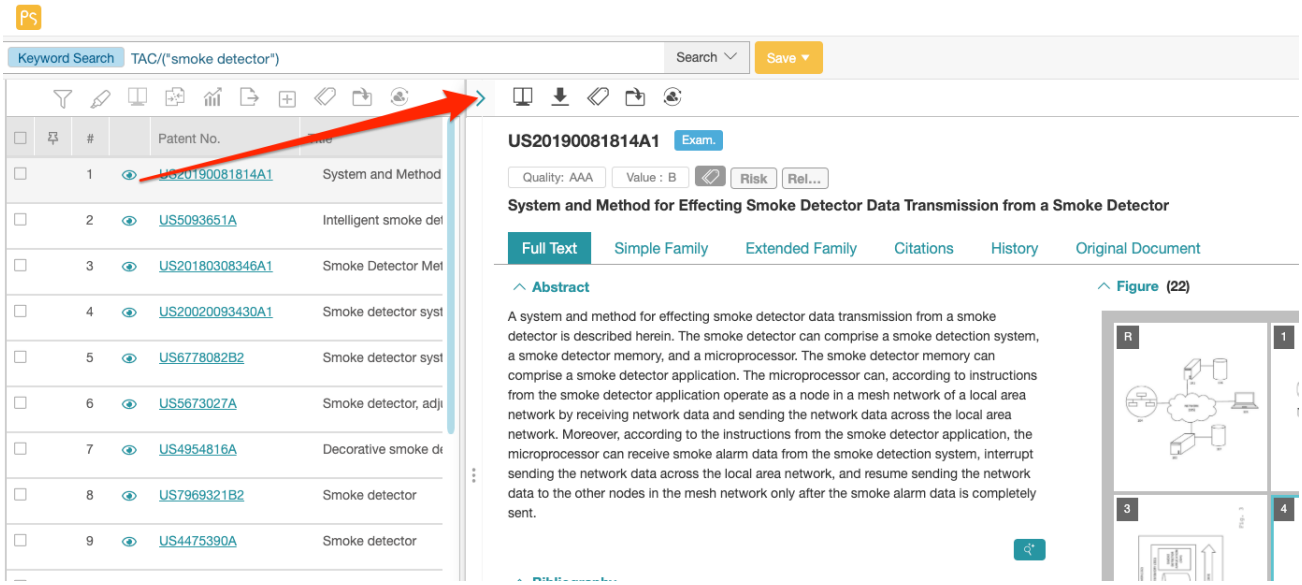
  To select which columns are displayed, please refer to this section.



Split View is available in List Mode and Gallery Mode. With this view, users can see the patent list on the center panel and the patent document on the right panel.



Click on the preview icon to open the patent page on the right panel. To collapse this panel, click on the arrow icon .

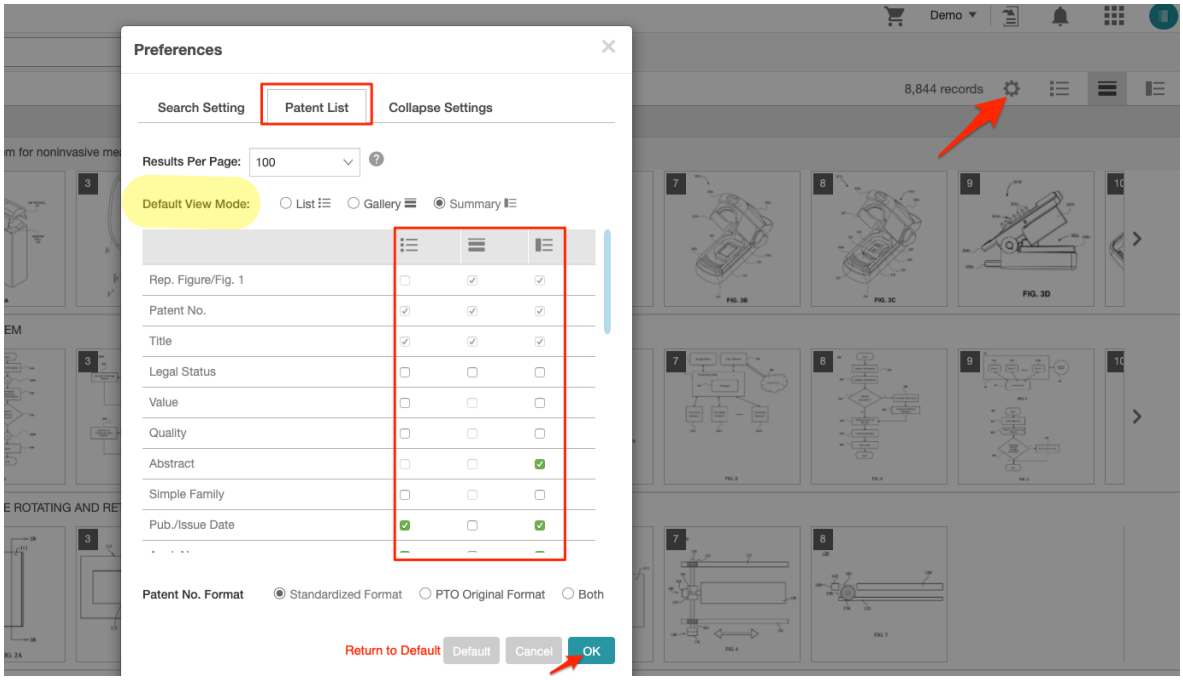


Note: Tools such as Filter, Highlighter, Statistical Chart, Collapse, Expand by Family, and export) are disabled in Split View.

Click on the patent number to open the patent page in a new tab.

Set Preferences for View Modes

You can select and save your display options for each view mode in Preferences . Some options may be disabled under each view mode.



Highlighter

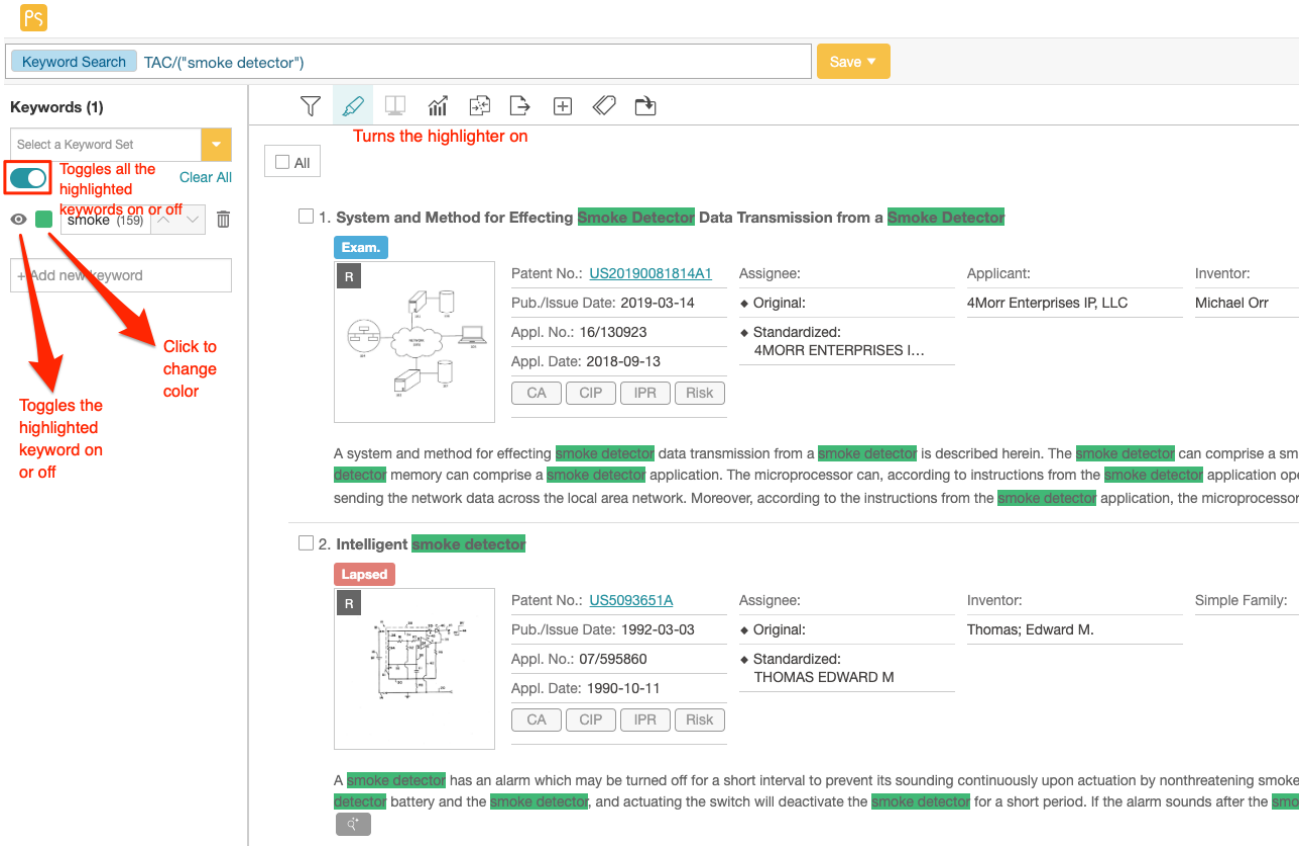
Highlighter within the Search Results page

Keywords in your search are automatically highlighted on the search results page.

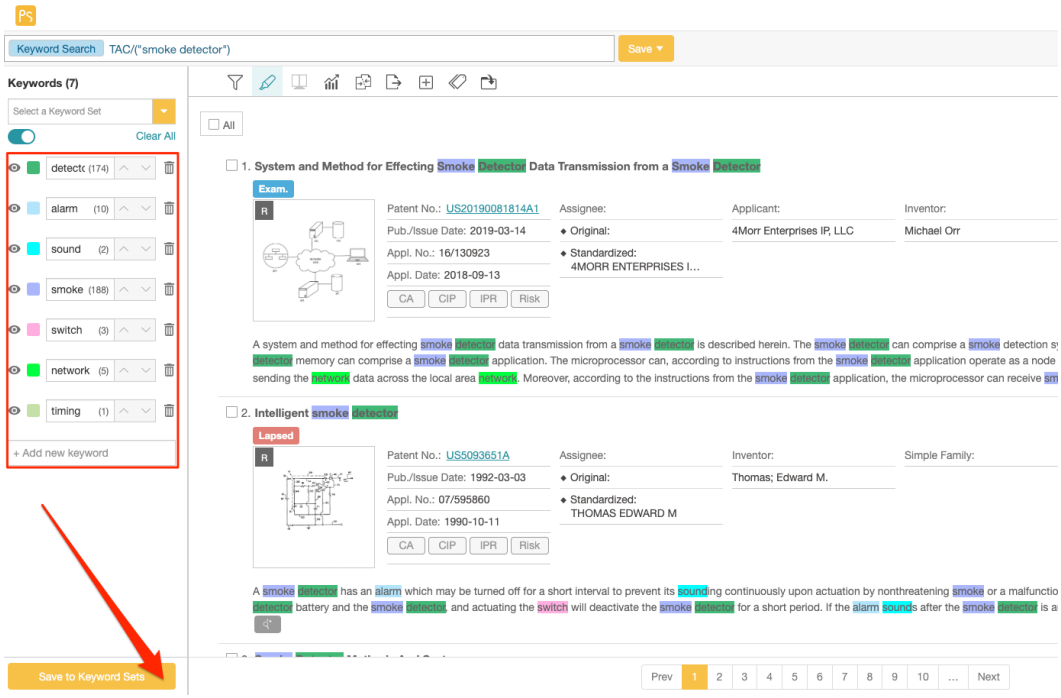
Note: The Highlighter operates separately from the search function. This means that if your query is ABST/(car NOT vehicle), the keyword "vehicle" will still be highlighted when it is present in other sections such as the title or specification.

To add more keywords, click on the **Highlighter** icon to see the Highlighter panel. Enter a specific word or phrase you want to highlight in the text box and click Enter. The keyword will then be highlighted in a specific color throughout the search results pages. If you want to change the color of the highlight, click on the color of the highlight and a color palette will appear from which you can select another color. The numbers in parentheses in the colored text box displays the total number of occurrences of that keyword on the current page.

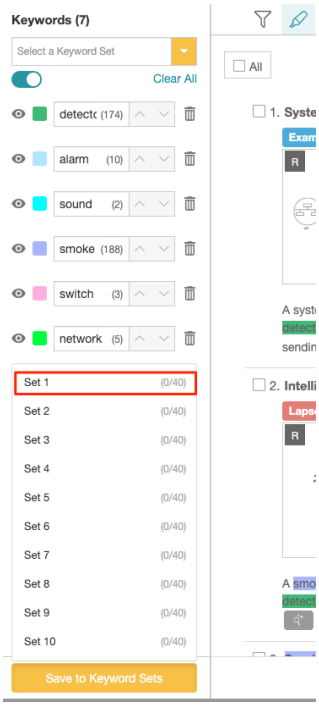
Note: When switching to another browsing mode, make sure to click on the Highlighter icon to activate.



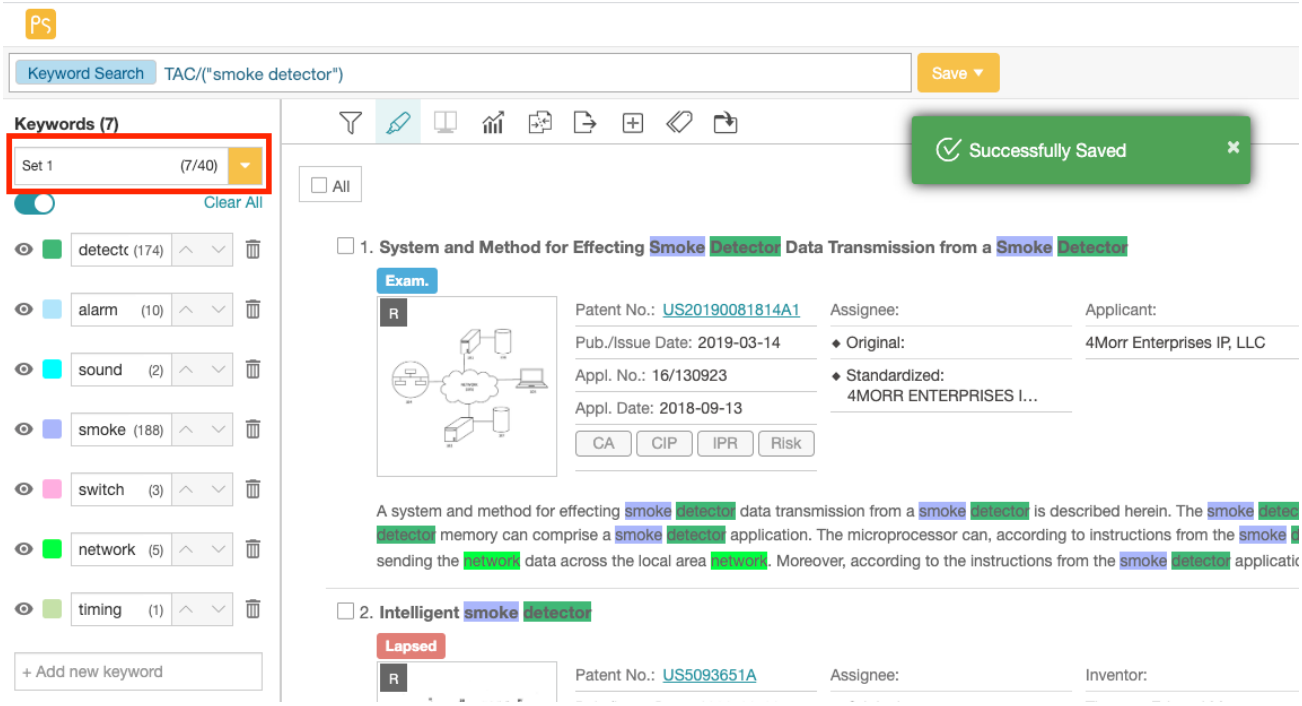
- To store your frequently-highlighted keywords for recurring use, click on Save to Keyword Sets.



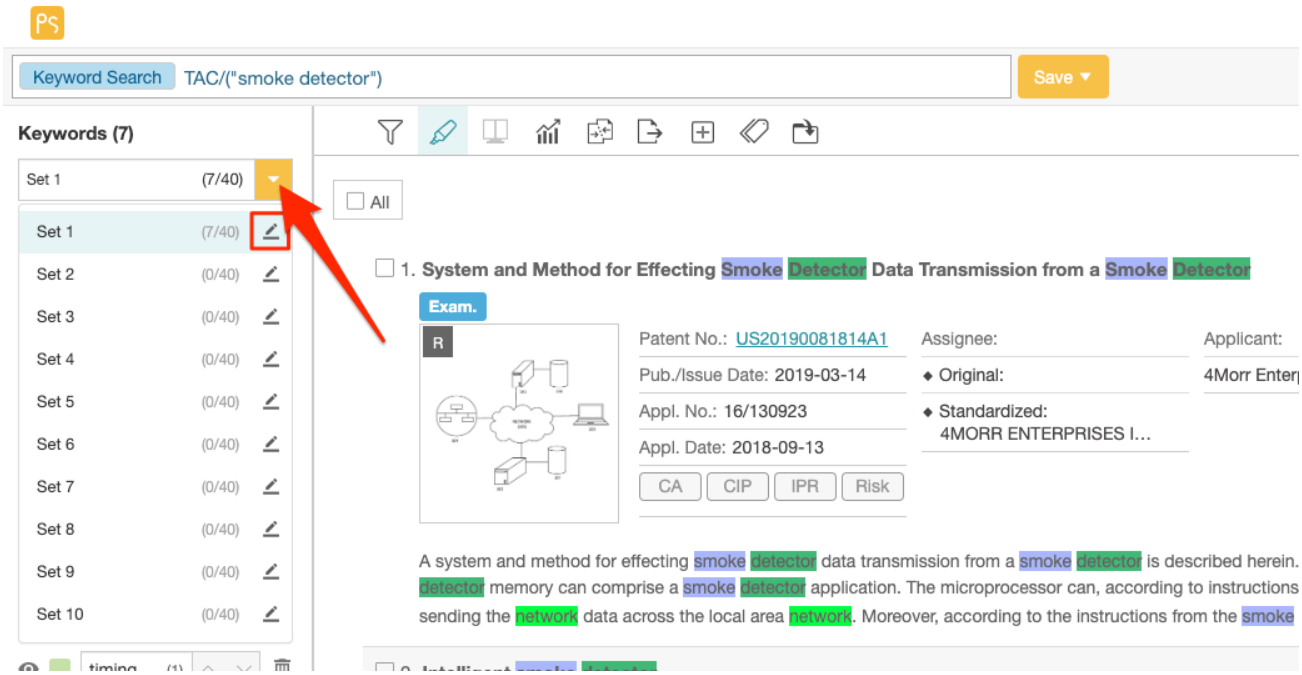
You can save up to 10 keyword sets that can store up to 40 keywords each. Select an empty set where you want to save the keywords. By default, they are named Set 1 to Set 10, which can be renamed.



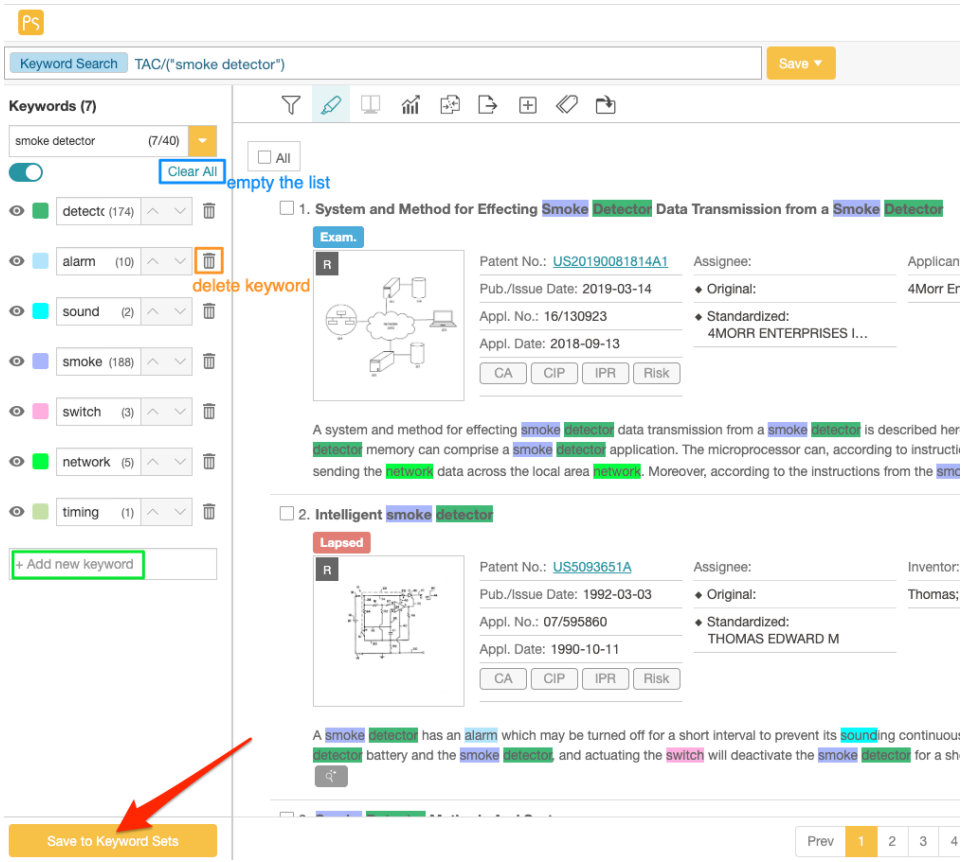
There will be a prompt showing whether the keywords were successfully saved or not. The number next to the set name will also reflect the number of keywords.



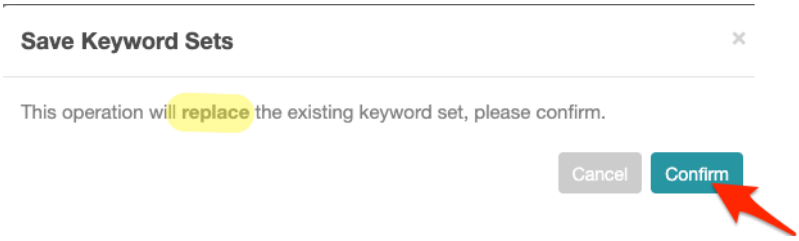
- To rename the Keyword Set, click on the Select a Keyword Set dropdown list and click on the Edit icon.



- To add or delete keywords in an existing Keyword Set, click on the Select a Keyword Set dropdown list and click on the set you wish to change. You can empty the list, delete individual keywords, or add new ones.



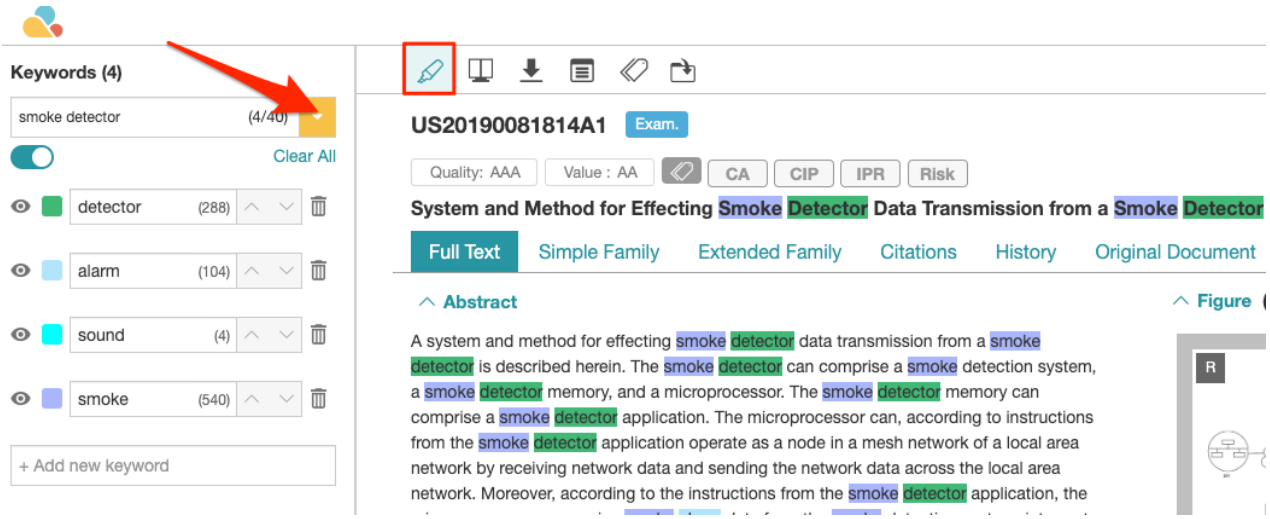
This will replace the existing set. Click on Save to Keyword Sets and select the set that you wish to replace. Then, click Confirm to proceed.



change

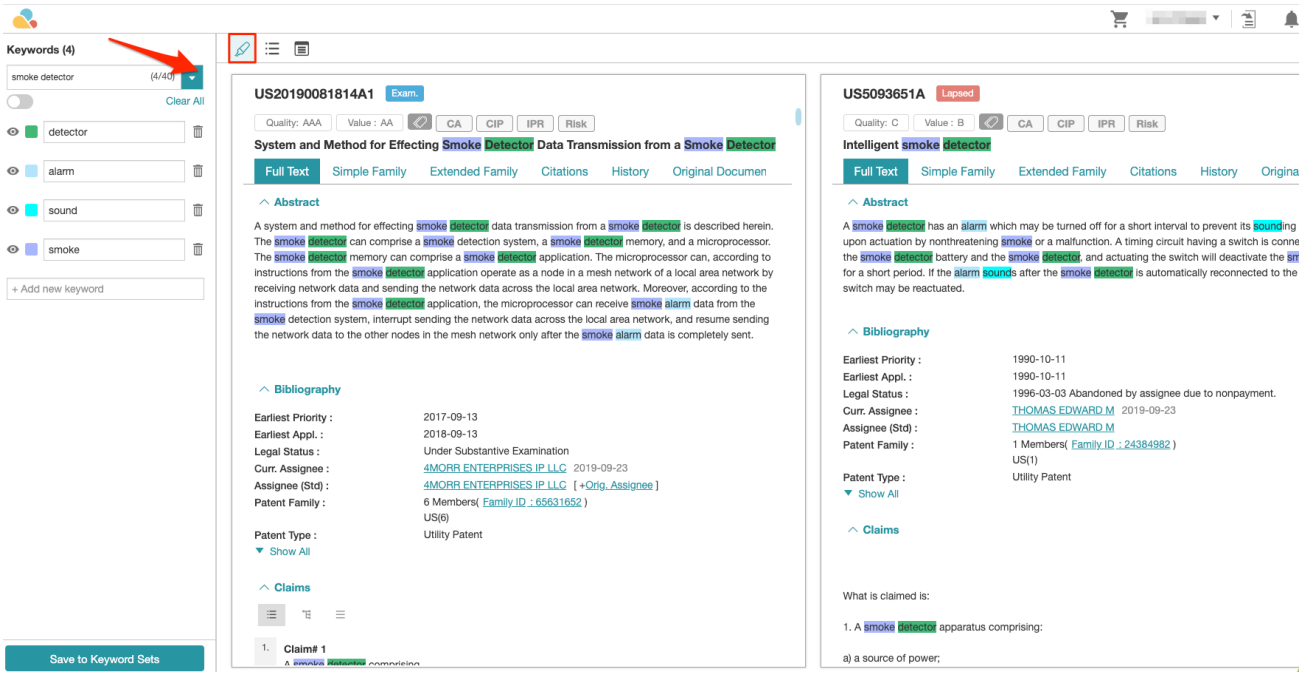
Highlighter within patent pages

The same Highlighter functions are available on individual patent pages. Any changes done to a Keyword Set will automatically take effect across all Patentcloud pages.



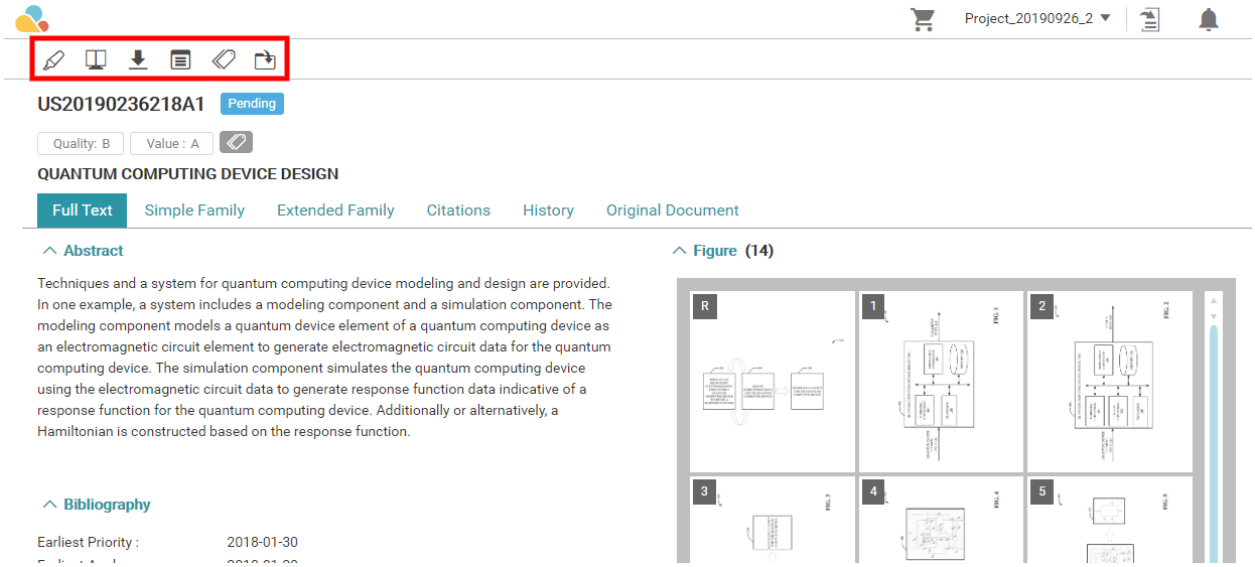
Highlighter when comparing patents

The same Highlighter functions are available when comparing two or more patents. Any changes done to a Keyword Set will automatically take effect across all Patentcloud pages.



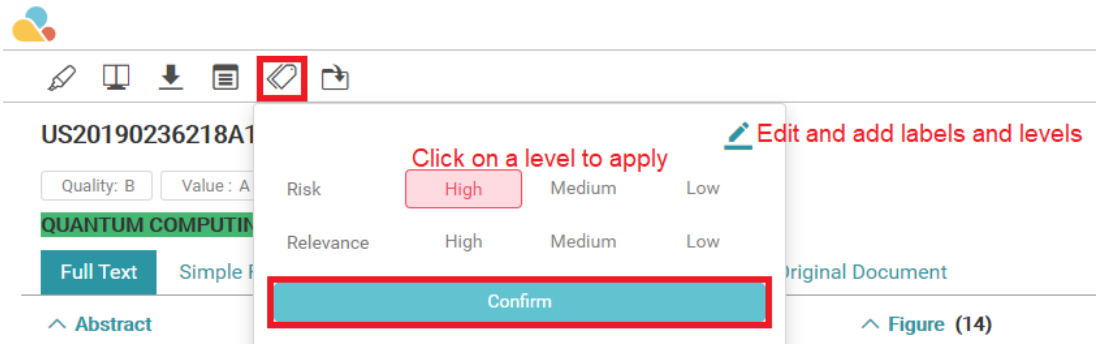
Page View Features

Patent Search provides a variety of useful services, including:

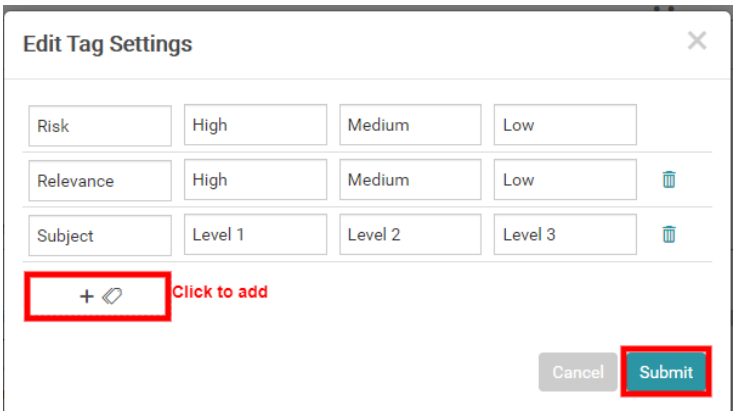


1. Download Full-text : Click the **Download** button to download the full-text content of the patent in PDF.
2. Tag: You can use the **Tag** icon from the toolbar to add tags to a patent. Once a patent is tagged, it is added to the Tag folder in your project in Patent Vault. The default labels you can use for the tag function are Risk and Relevance. You can set these labels to three types or rankings, say, either High, Medium, or Low. You can view the tagged patent and its Risk/Relevance label in your Tagged folder.

   Note: This feature is only available for Patent Search subscribers with Patent Vault.



   By clicking on the **Edit** button, you can customize your labels by editing the label dialog box. You can create a new label, give it a subject (used for comparison, which may include products, technology, patents, etc.), a label name, and a range.



3. Highlighter : Refer to this Highlighter article.

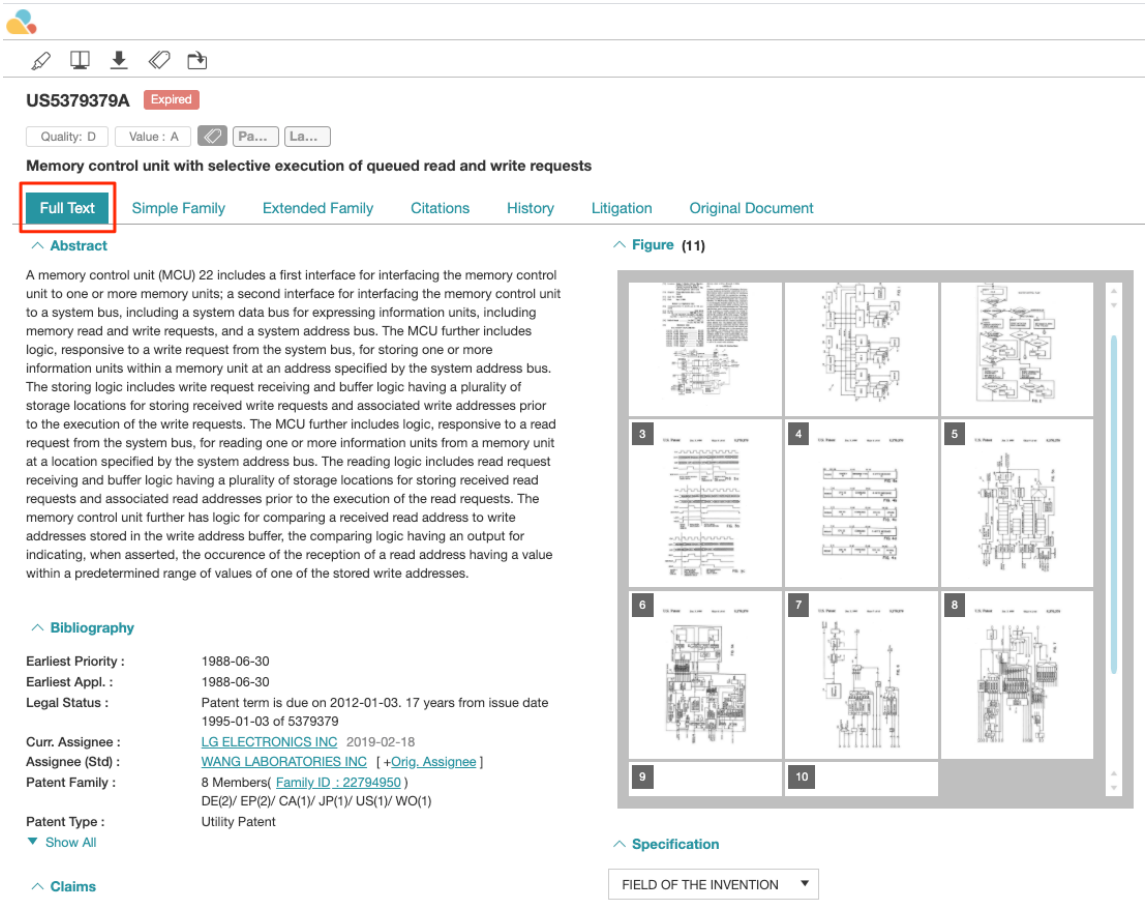
Page View Information

Patentcloud patent page provides a variety of useful information, including:

- Full text
- Simple Family
- Extended Family
- Citations
- History
- Litigation
- SEP Declarations
- Original Document

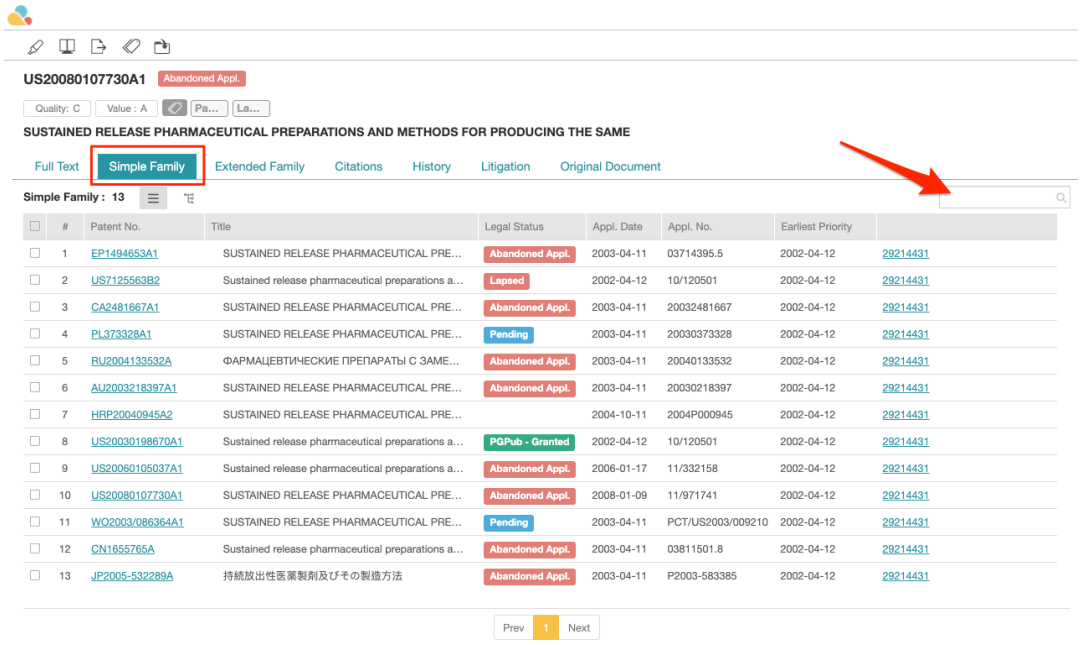
Full text

View basic information of the patent such as Title, Abstract, Legal Status, Quality and Value (PS Advanced users only), Bibliography, Figures, Claims, and Specification.

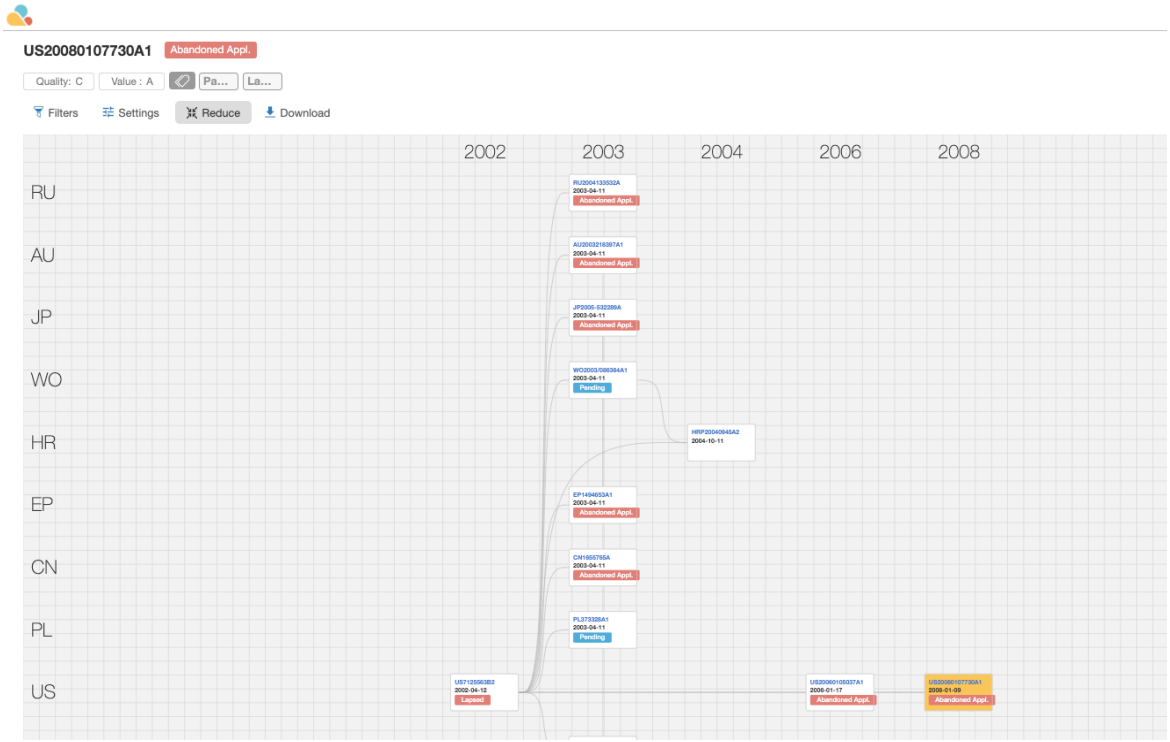


Simple Family

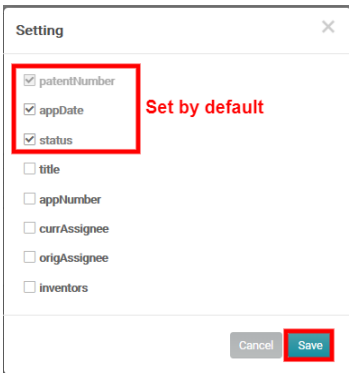
Following EPO's definition, a simple family covers a single invention and members have exactly the same priorities.



Under the List view , you can use the Search bar to narrow down results. Switch to the Tree view to visualize patent jurisdictions and application timeline of family members. The highlighted patent pertains to the patent page currently in view.

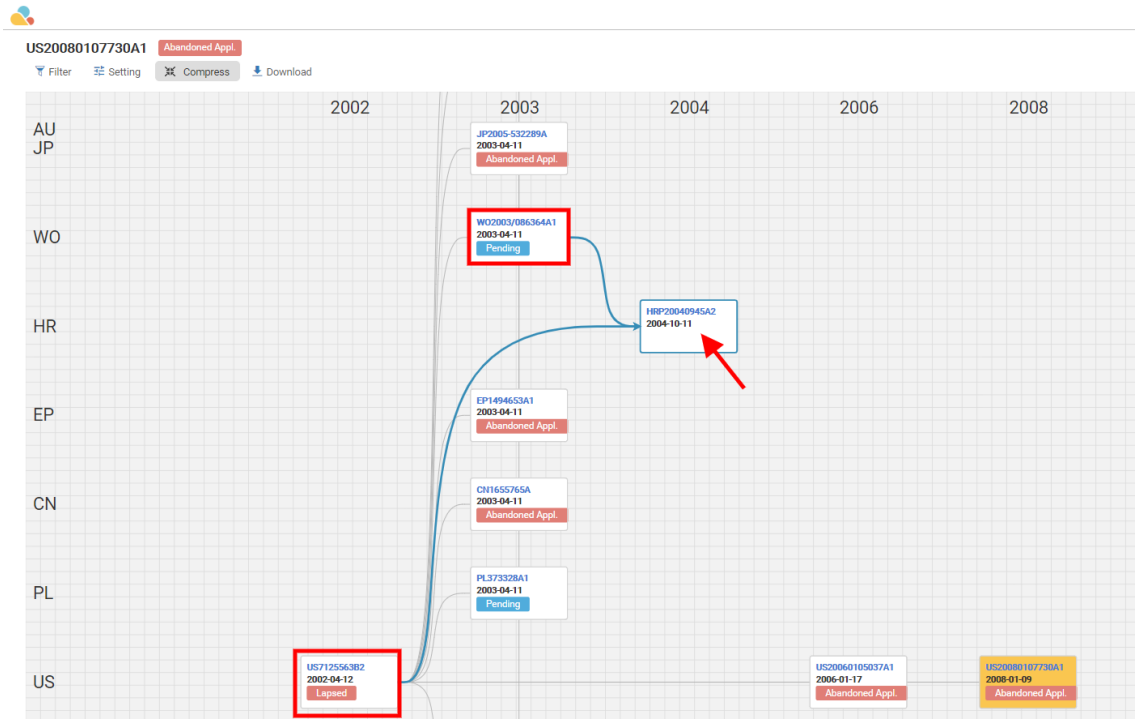


Click on the **Filters** icon to narrow down results by patent office and application date. Define the patent data fields you want to be displayed by clicking on **Settings** .

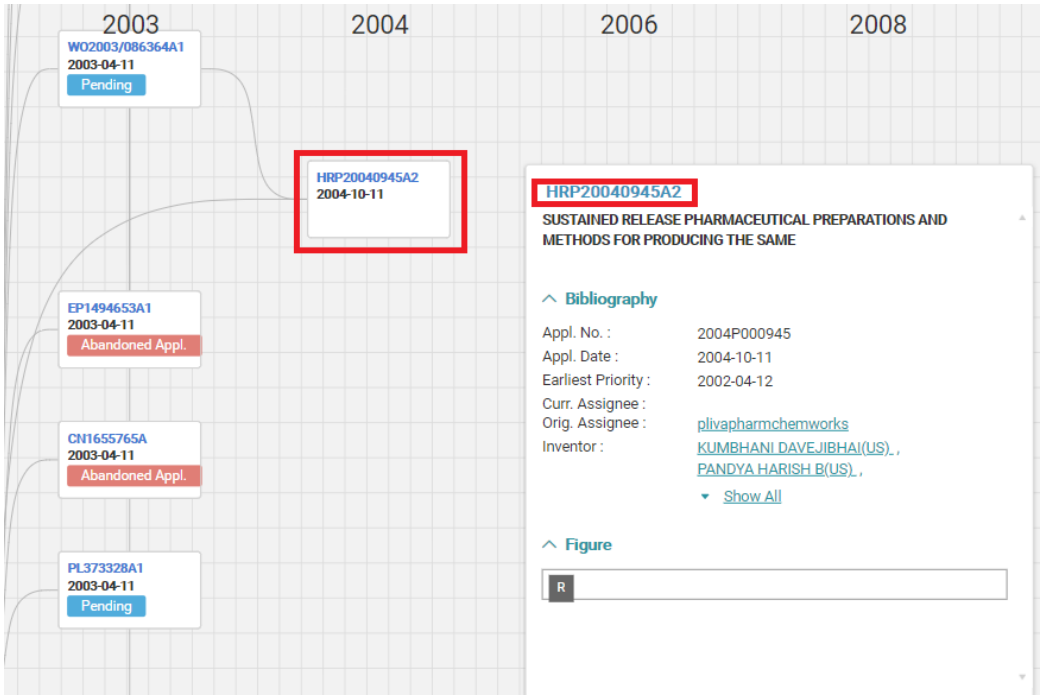


Click on the **Expand** to use a larger portion of the screen. To download as a JPG image, set the view (zoomed in or zoomed out) you want to get before clicking on **Download** . Whatever part or area is shown on screen, it will reflect on the downloaded image. Users can use either the zoom in and zoom out controls on the upper right corner or your own computer's zoom shortcuts.

The view also shows the Earliest Priority mapping so users can quickly see the relationship among family members. In the example below, clicking on the Croatian patent will show blue arrow connectors from US7125563 (claiming priority) and WO2003/086364 (PCT application). These arrow connectors also appear in the JPG image when downloaded.

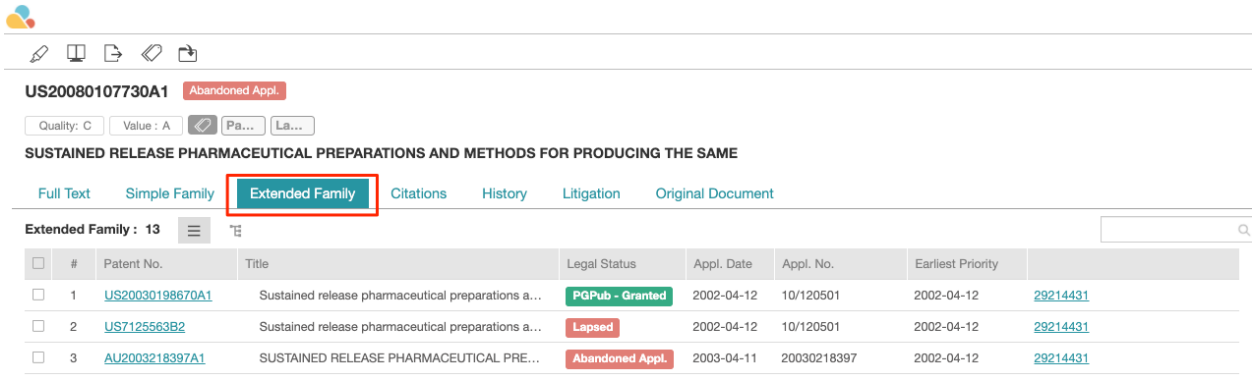


Hover your mouse over a patent to see its title, legal status, abstract, bibliography, and figure. Click on the resulting display to open its patent page in a new tab.



Extended Family

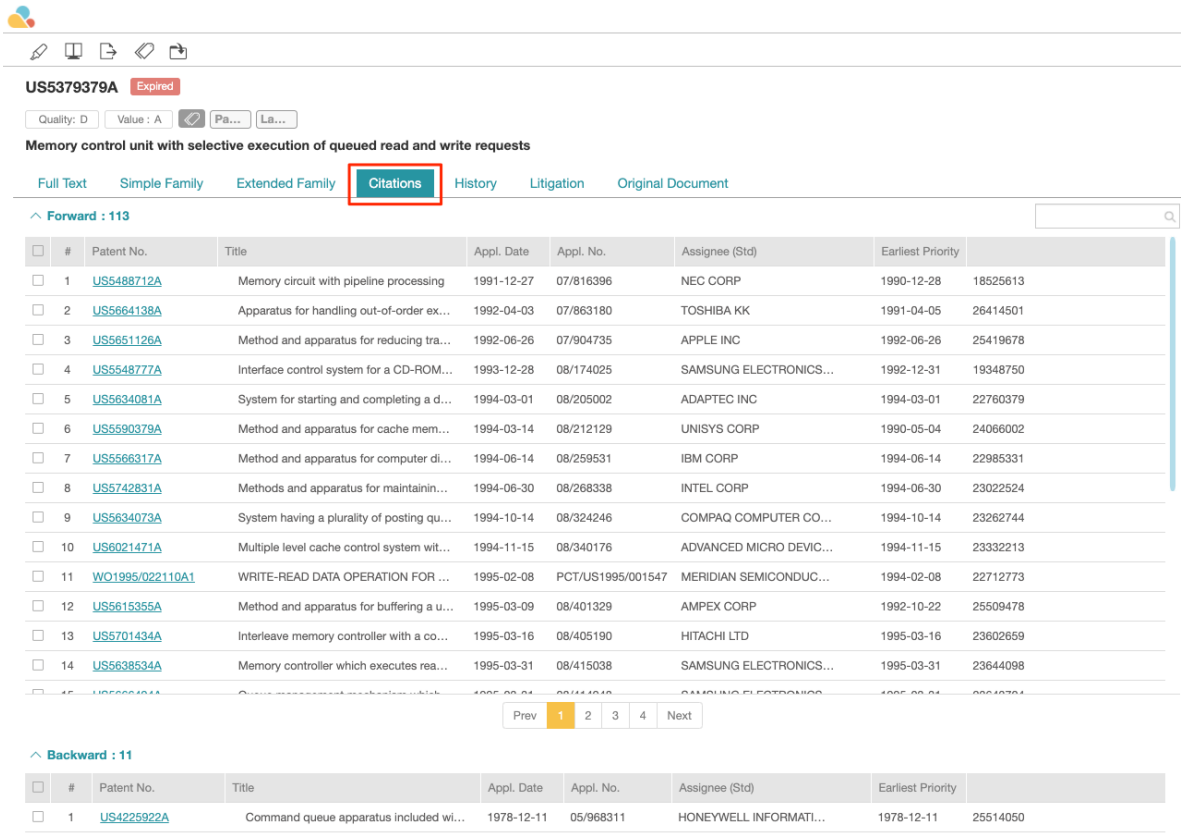
Following EPO's definition, an extended family covers similar technical content and members have at least one priority in common with at least one other member (directly or indirectly).



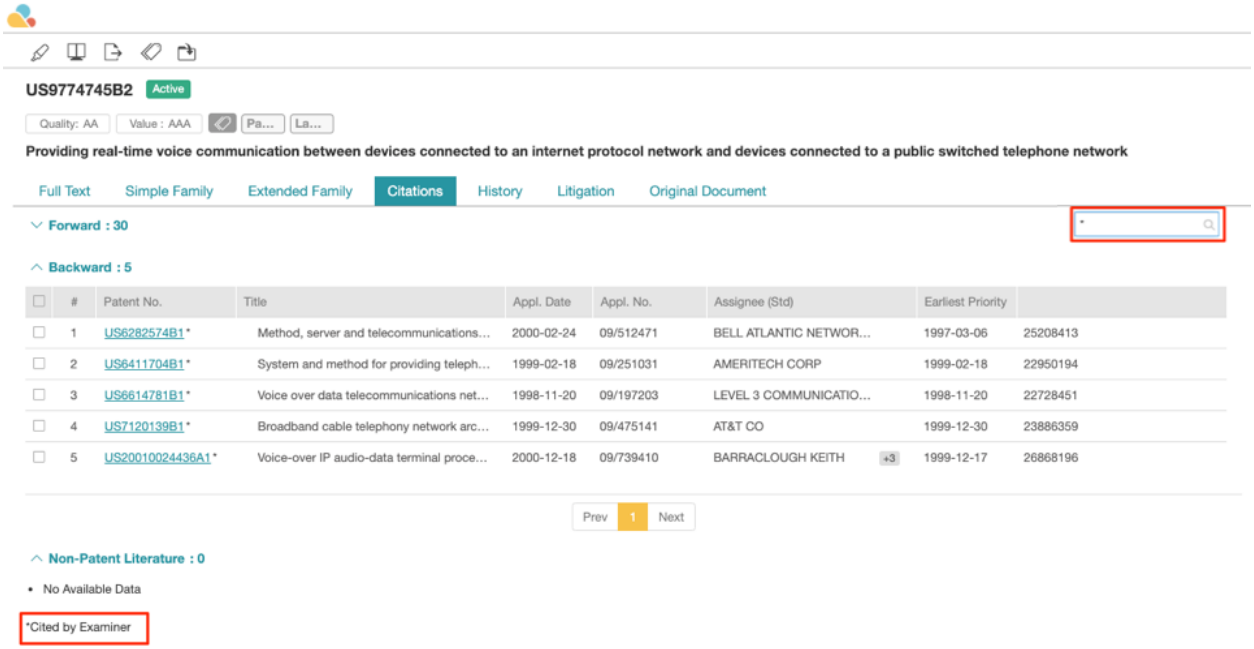
This tab has the same features as Simple Family.

Citations

A citation is a reference to a previous work (prior art) that is considered relevant to a current patent application. There are two different types of citations: backward and forward citations. Backward citations are patents that are cited by a specific patent and forward citations are subsequent patents that cite that specific patent.

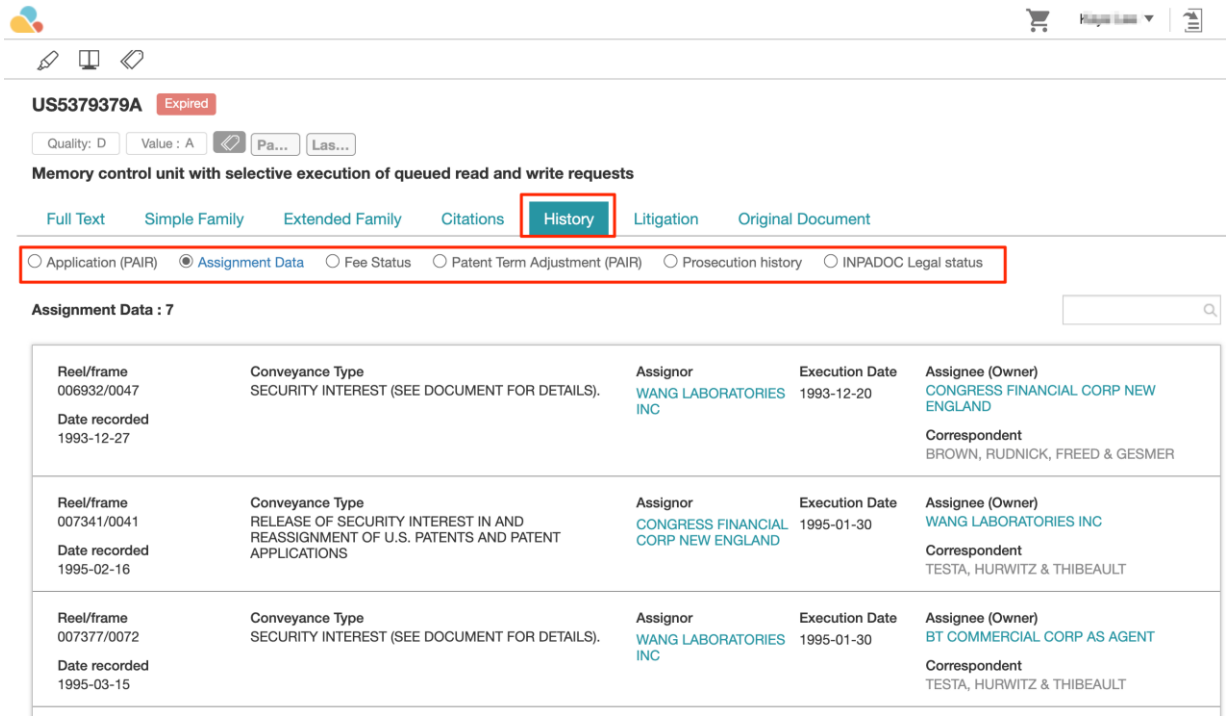


You can filter out citations by examiner by using the Search bar to look for *.



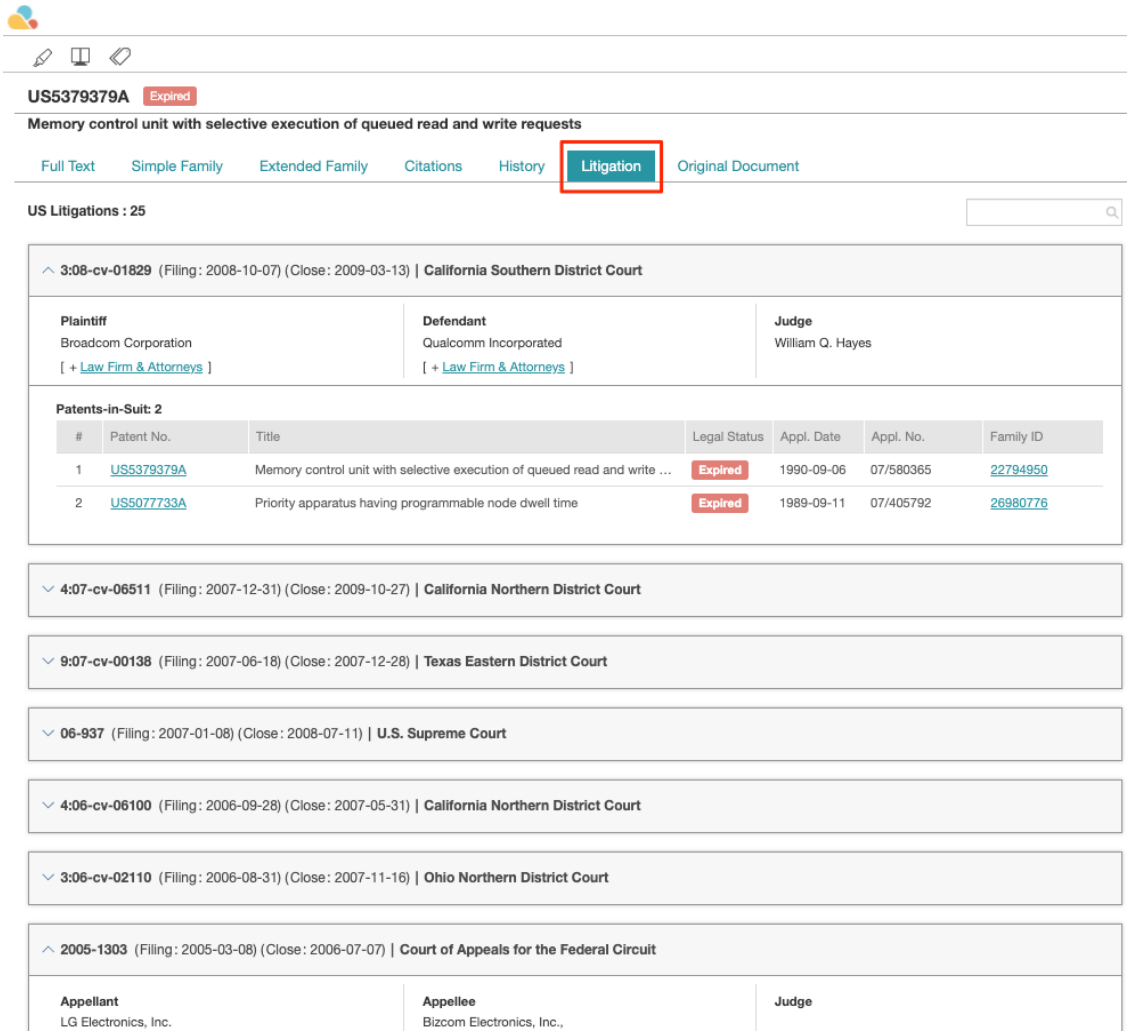
History

This tab provides Application (PAIR) data, Assignment Data, Fee Status, Patent Term Adjustment (PAIR), Prosecution History records, and INPADOC Legal Status.



Litigation

View any US patent's involvement in District Court, ITC, PTAB, Court of Appeals for the Federal Circuit, and Supreme Court cases.



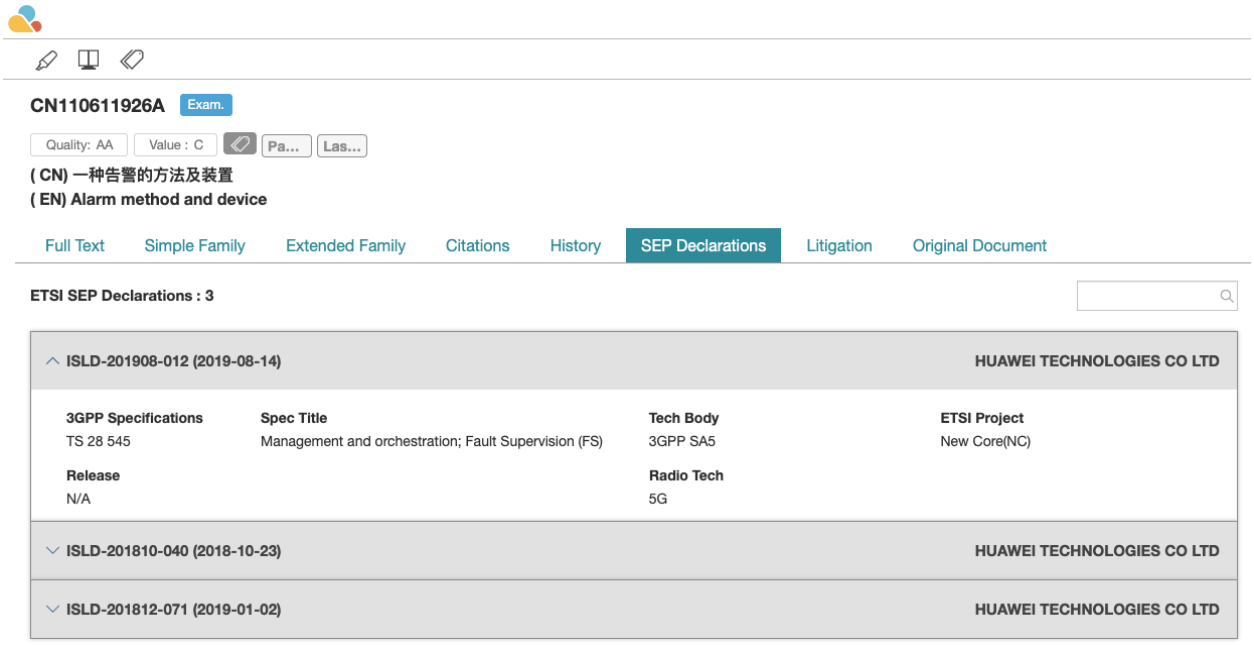
Case records are updated everyday from PTAB Open API and authorized sources. Data coverage for each jurisdiction is as follows:

Jurisdiction	Filing Date (Start)
ITC	1972/04/04
PTAB	2012/09/16
District Court	1980/02/05
Court of Appeals for the Federal Circuit	1991/06/07
Supreme Court	2004/03/03

SEP Declarations

Standard essential patents (SEPs) with 3GPP specifications published by ETSI have a dedicated SEP Declarations tab.

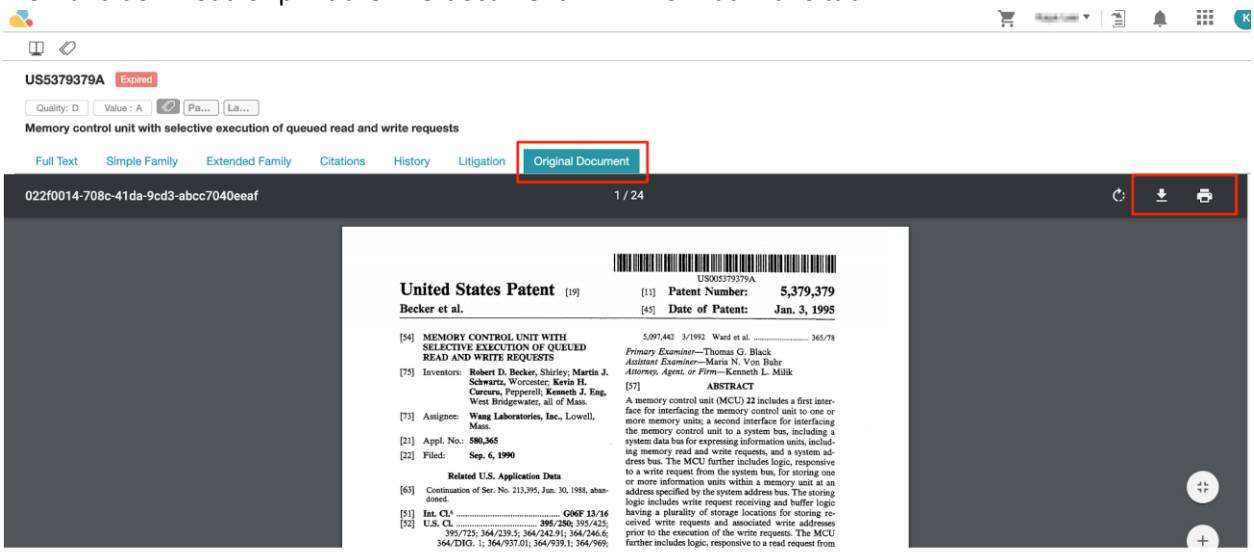
It shows the ISLD number, specifications and spec title, tech body, release number, radio tech, and the declaring company.



For a complete and interactive SEP database, get your free trial access here.

Original Document

View and download or print the PTO document in PDF format in this tab.

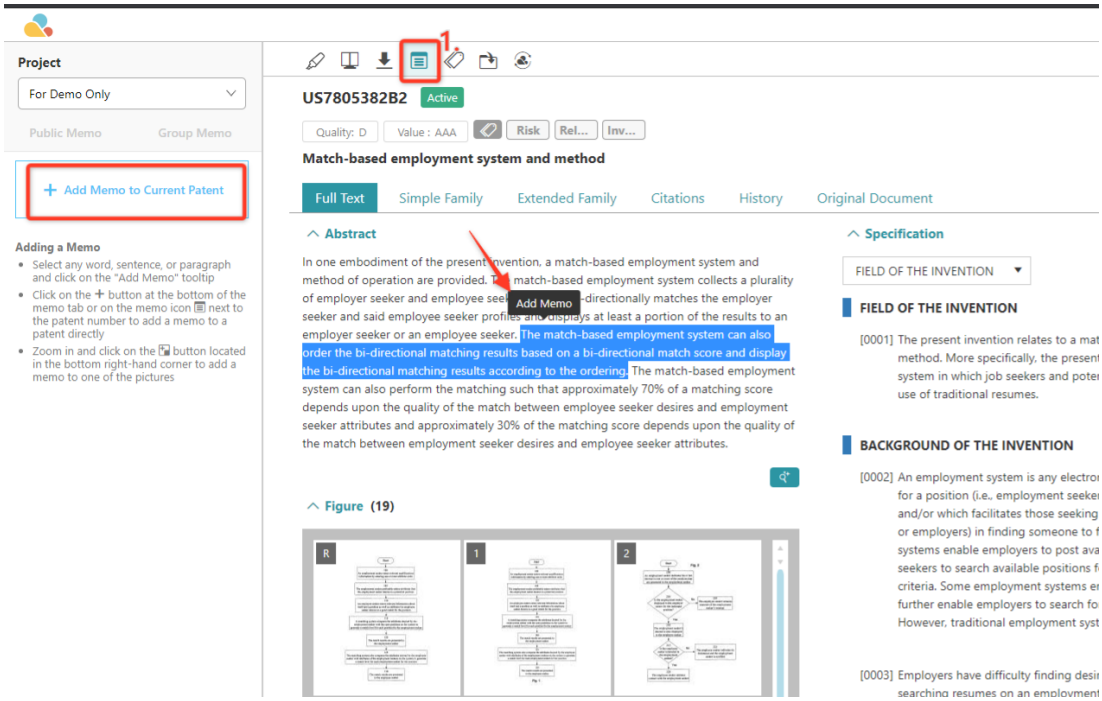


Memo Management

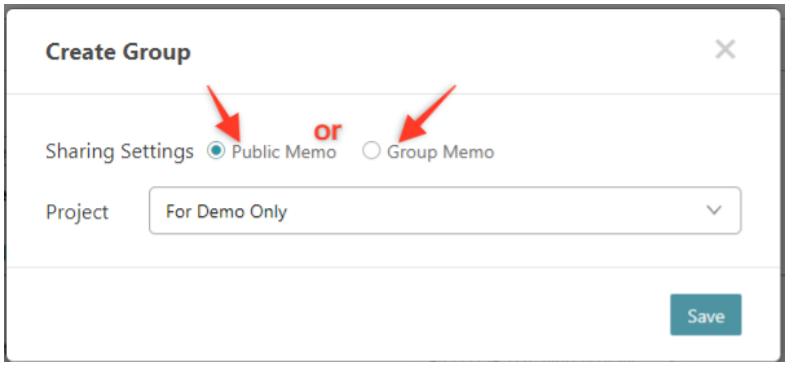
Patent Vault includes a powerful Memo Management feature that allows you to write and edit memos. Patent Search subscribers with Patent Vault can use this feature.

Memo Editor

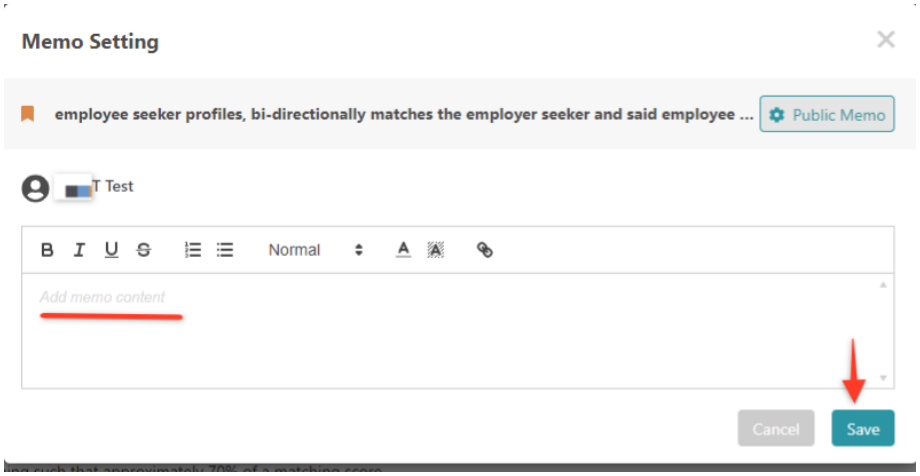
1. After enabling memo mode from the toolbar, simply select any word, sentence, or paragraph in the patent text and click on the **Add Memo**



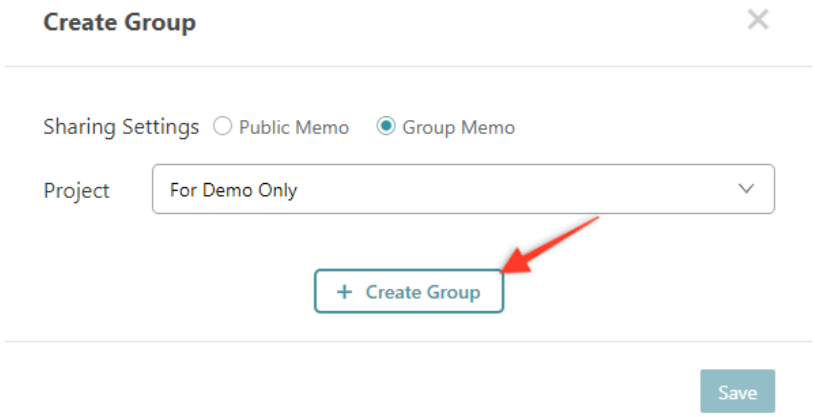
2. The **Share Setting** will pop up, you can choose if the note should be a *Public Memo* or a *Group Memo*. Then Click on **Save**.



2.1. When the Public Memo is selected, you can start typing the note. You can just click on **Save** when you are done.

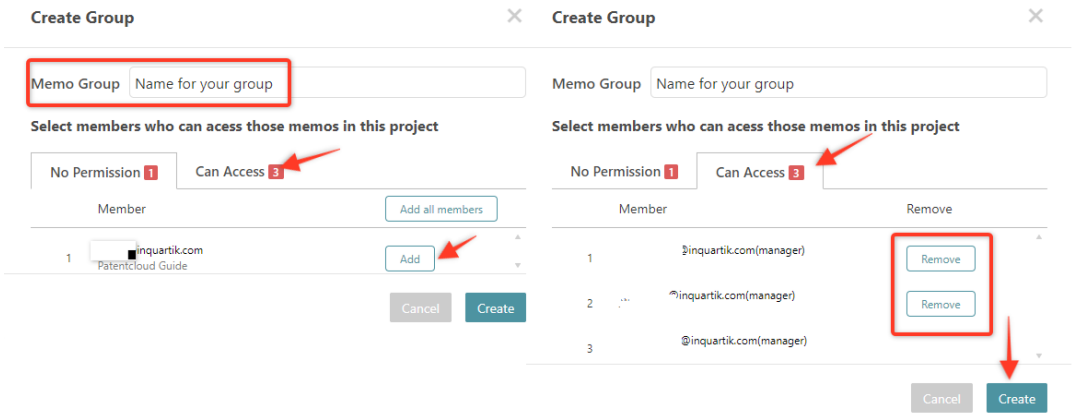


2.2. If this is the first time you use Group Memo, you will need to create a group first. Just click on the create group to set up a Group Memo.



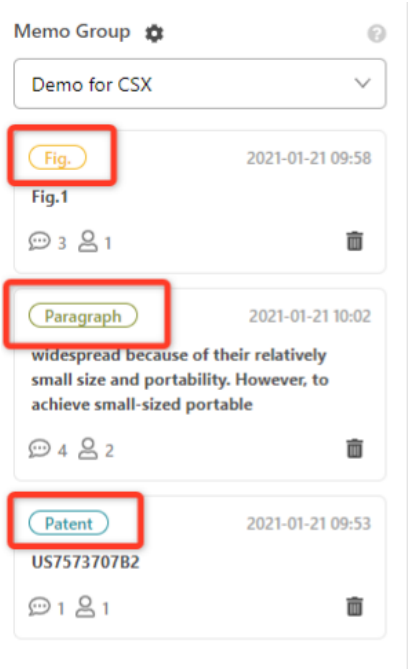
*Once you have created a few Groups, you can just select from a list.

2.3. Next you will need to enter the name of the Group and allow who has the access to the **Group Memo**.



2.4. After you clicked on “Create,” simply start typing to add notes to the memo. Then click Save when you are done.Your new memo will appear in the memo tab on the left-hand side of the window.

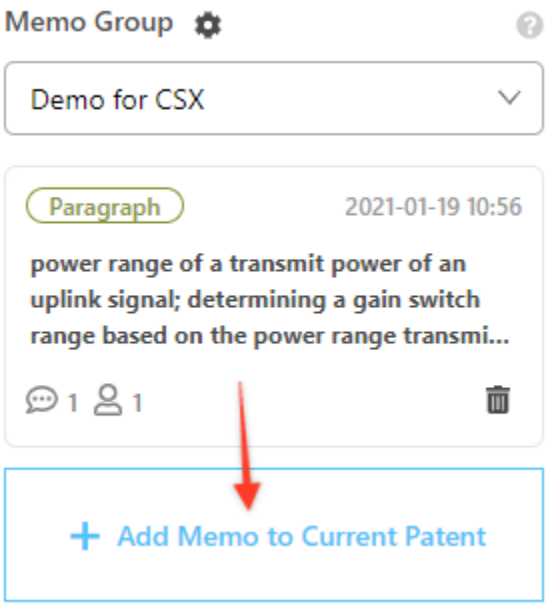
There are three types (Patent, Paragraphic, or Figure) of memos that mark different elements of a patent document. You can see at the top left of each memo thread to find out which type of the memo is associated with.



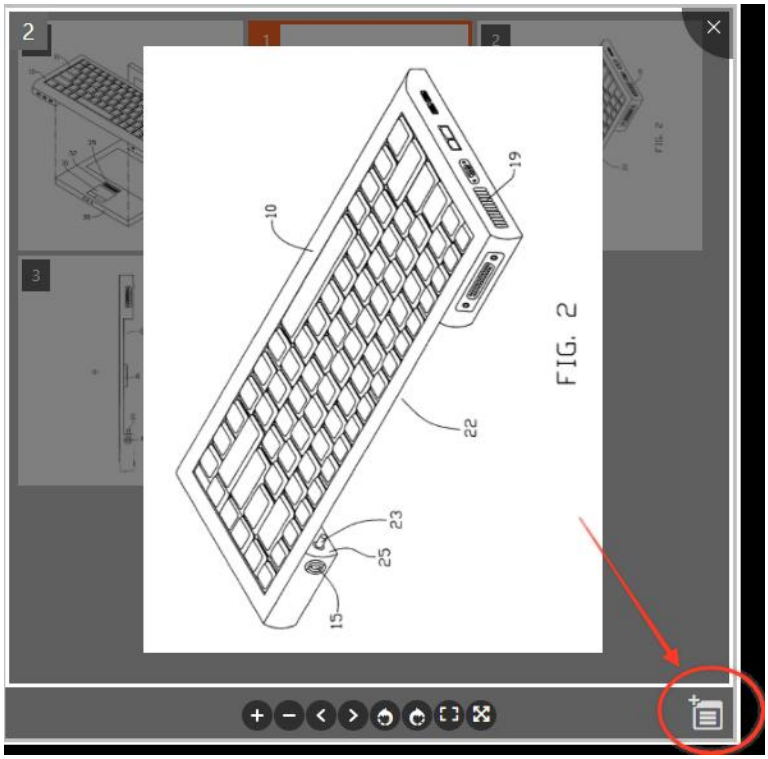
3. The text linked to the note is now underline in orange, once clicked the selected text will be highlighted in blue for easier retrieval:

[0004] With the development of computer technology, use of portable computers has become widespread because of their relatively small size and portability. However, to achieve small-sized portable computers, many typically included expansion ports are not included, and so expandability of the portable computer is thus impaired. To compensate for the impaired expandability, the portable computer is typically provided with a docking station via which the portable computer may be connected with a mouse, a modem, and/or other peripheral equipment.

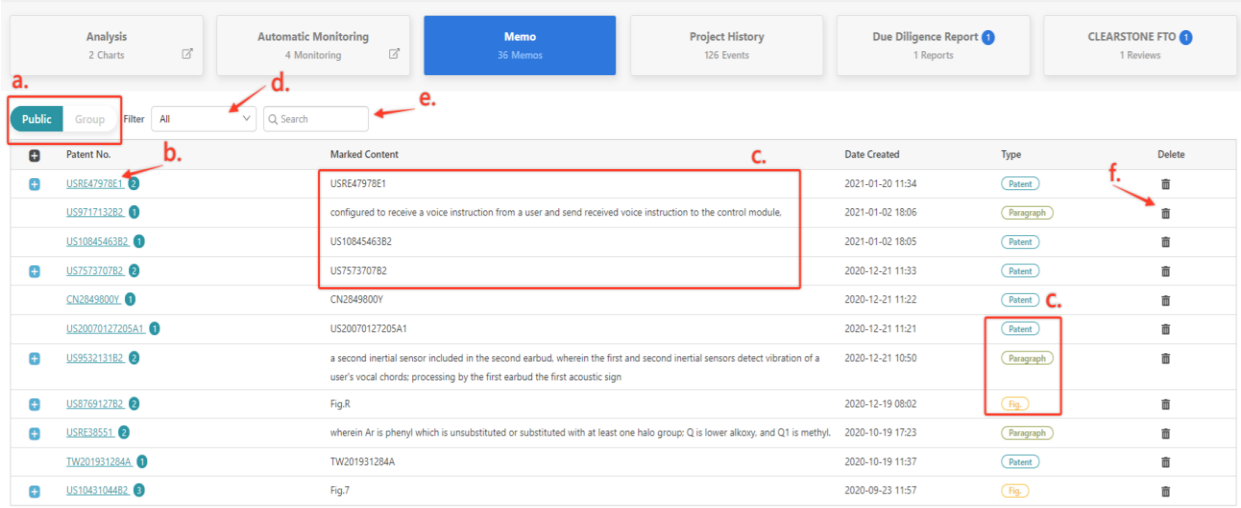
4. To add a memo to the entire patent document, click on the + button on the Memo tab:



5. To add a memo to one of the figures, simply click on the figure and click on the + button located in the bottom right-hand corner:



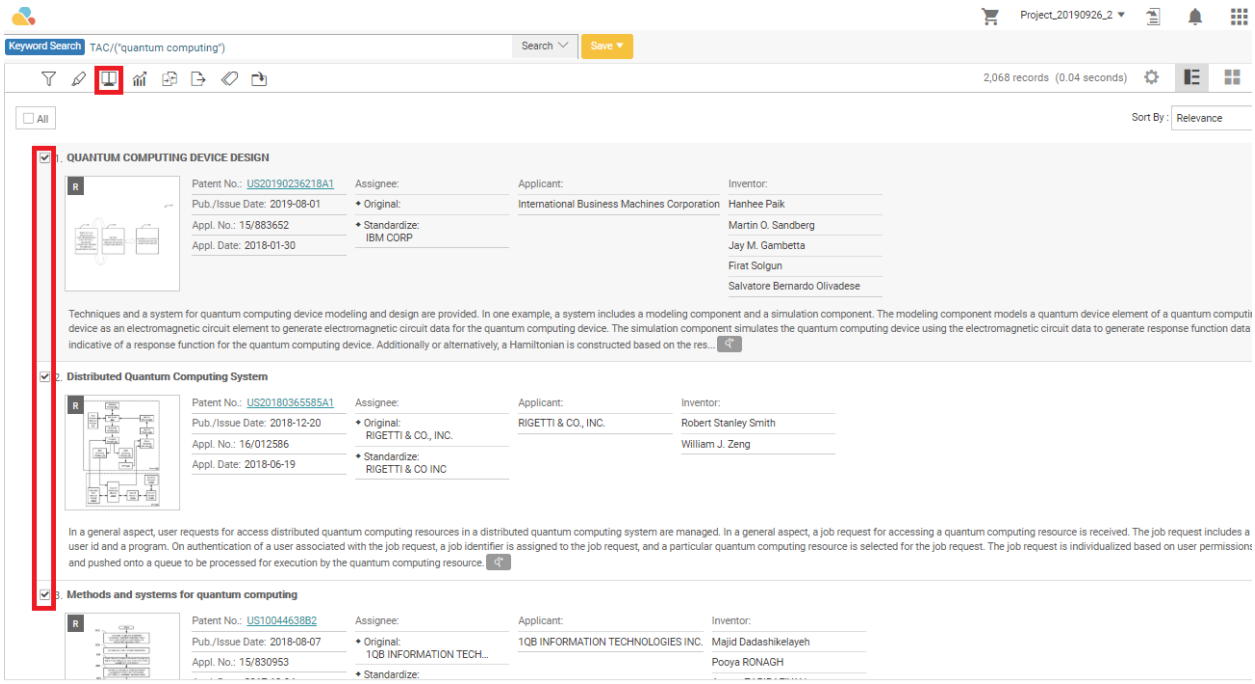
6. Lastly to review it all in the new Overview page in Patent Vault, you can find the following in the Memo Tab:

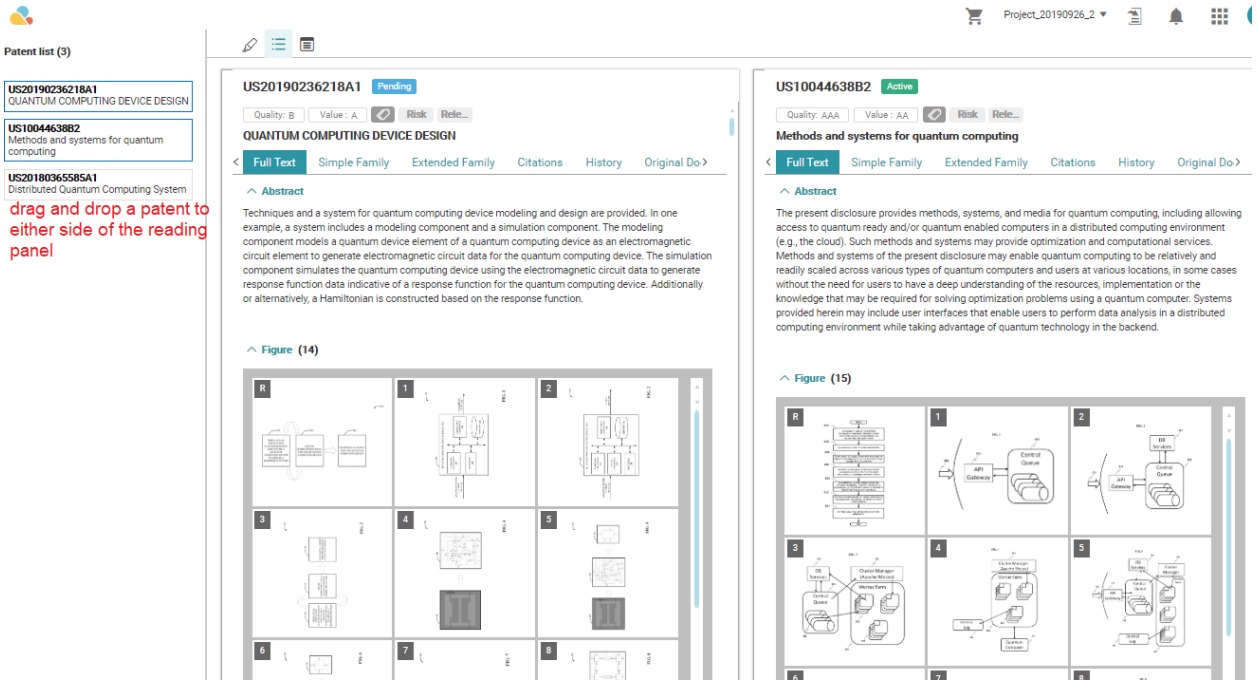


   a. Switch between Public Memo or Group Memo to view the corresponding content
   b. View the memo count per patent
   c. Identify the Types (Patent, Paragraph, Figure) and marked specific text or figure number where the memo is stored
   d. Public memo could filter by your created memos or the memos you commented on
   e. Do a keyword search for patent numbers or the specific text where the memo is stored
   f. Easily delete unwanted memos

Compare (Patents)

Patent Search and Patent Vault allow the user to quickly and easily compare two patents. Whether in search results or in your folder, select patents by clicking its corresponding checkbox. Then, click the **Compare** icon (), and you will be taken to the document comparison page. There, the two selected patents will be displayed side-by-side.

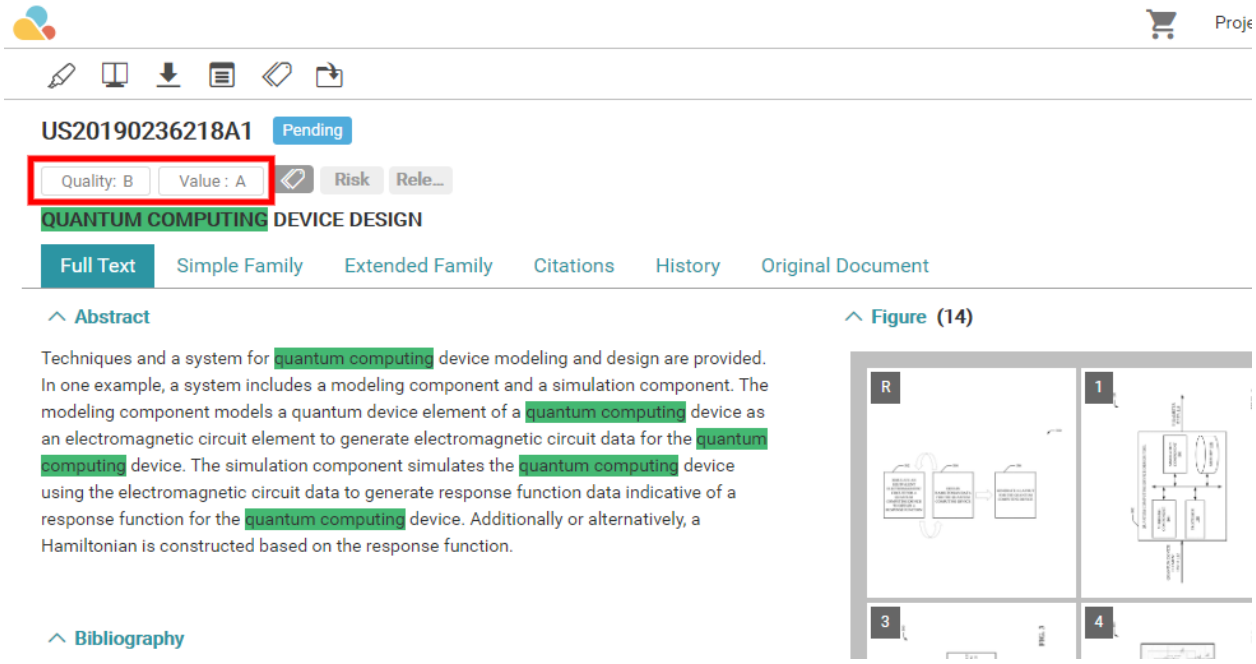




Quality and Value Rankings

Utilizing Patentcloud's proprietary algorithm, Patentcloud is able to assign a quality and value ranking for each patent. To see the Patent Quality and Value Rankings for a patent, please follow the steps below.

1. Perform a patent search and display the patent view's main page.
2. Under the patent title you can also see the Patent Quality and Value Rankings of the patent.



Hover over Quality or over Value to look at a brief introduction of these rankings.

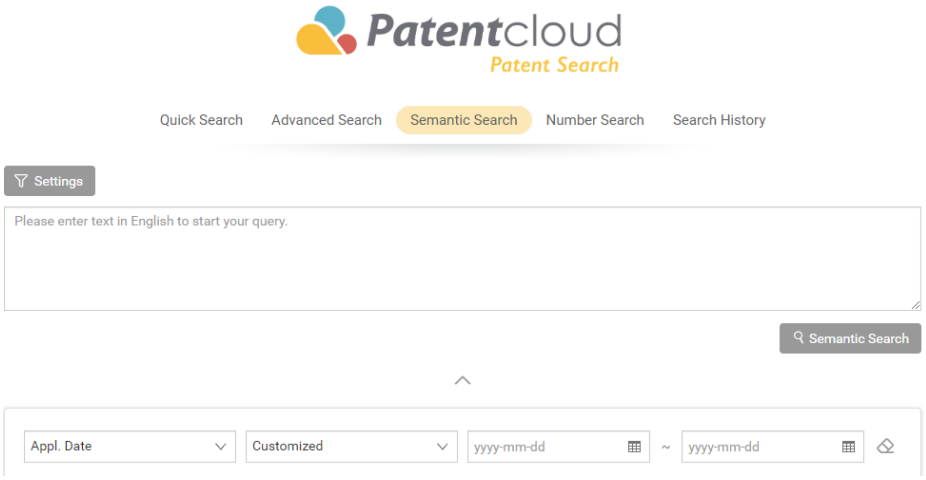
Semantic Search

What's Semantic Search?

Semantic Search is a type of patent search that delivers results based on keyword concepts (semantic similarity: https://en.wikipedia.org/wiki/SePlease add this article to the section of "Result & Page View"mantic_similarity) instead of based only on exact keyword matches. The idea behind Semantic Search is based on the likeness of meaning or semantic content as opposed to keyword similarity. For example, if your search criteria are the keywords "car" and "road," Semantic Search will deliver results related to "car" and results related to "road." Semantic Search will then search for the results that have both the "car" and "road" keywords. These results will be listed first. Semantic Search will also search for related keywords/concepts, like "street" and "automobile", but they will have a lower ranking. This ranking is based on InQuartik's semantic similarity search algorithm. These keywords or concepts will result in a list of concepts that are similar to the results of the input criteria. Concepts like "automobile" or "street" will also be included because they are related to the concepts of "car" and "road". Semantic Search not only broadens your search, but it also makes it more precise because it retrieves the most relevant patents, according to similarity.

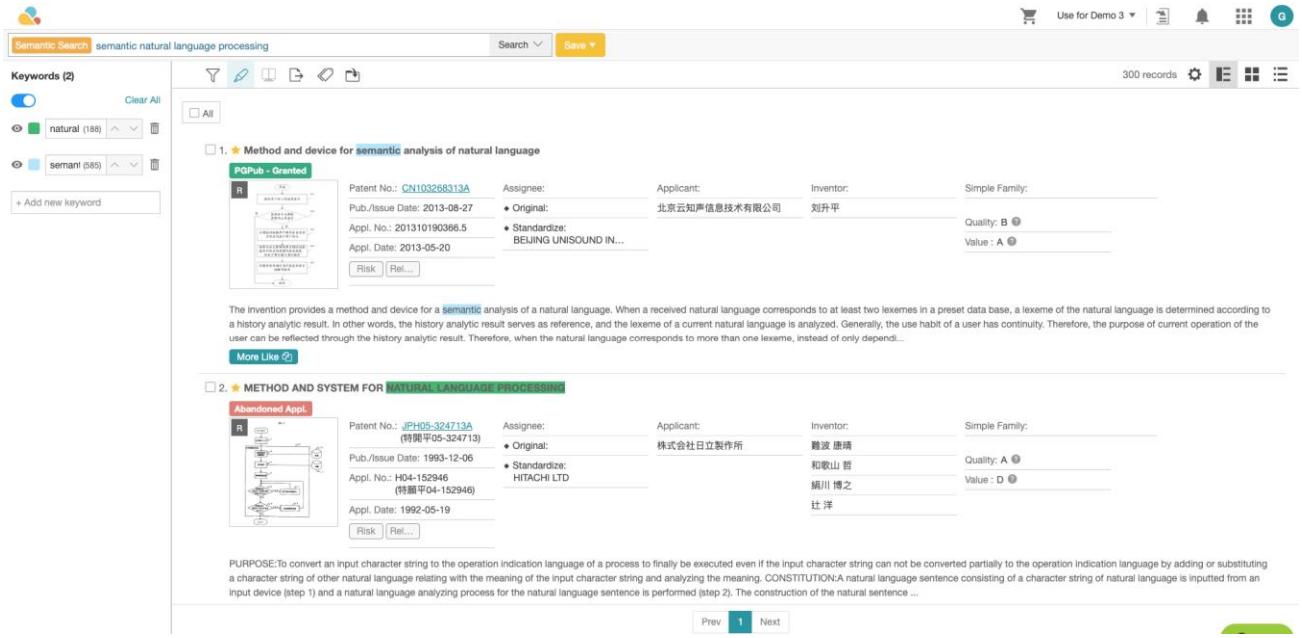
Query Text

Click on the Semantic Search tab on the main page, then follow the steps to execute a Semantic Search.



1. In the Semantic Search query box, enter the **invention concept** that you want to search for. You may input **natural language text**, or copy and paste an entire **abstract** or **claim statement** into the query box.
2. Click on Settings and select the patent office you wish to search in.
3. Click on the Arrow Down icon to set date filters. You can refine your search by selecting:
    a. Application Date or Issue Dat
    b. Customized; or 5, 10, or 15 years ago
        i. Date range to search if you selected the “Customized” option.
4. Click on the search button 

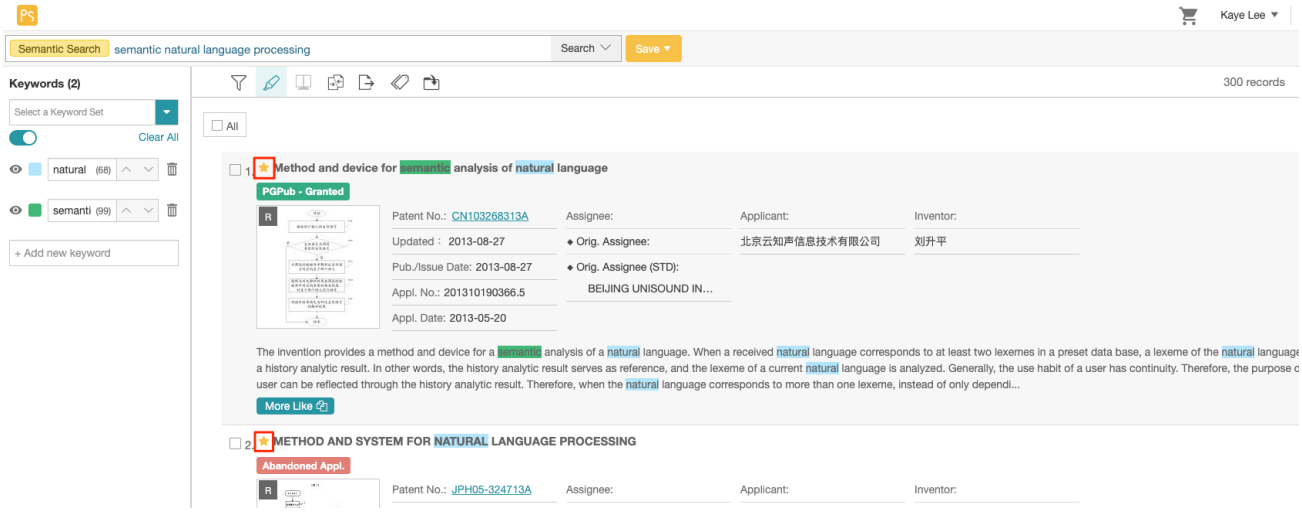
.
5. The results of your search will be displayed as seen below:



Search Results

Semantic Search will list the top 300 most relevant search results. There may be more than 300 results, but only the 300 most relevant will be listed. Semantic Search uses InQuartik's proprietary algorithm to analyze the semantic similarity of the keyword and the patent text, with the patents with the most similarity listed first.

Highly-relevant results are starred.

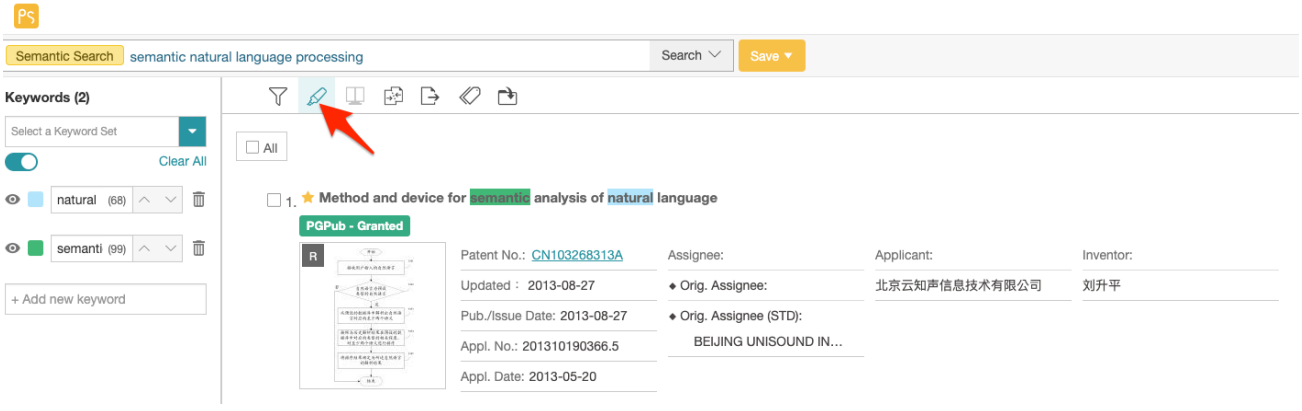


In this article, learn how to:

- Highlight and save keywords
- Filter results
- Collapse by Application No. or by Family
- Add a specific search result to update your query

Highlight and save keywords

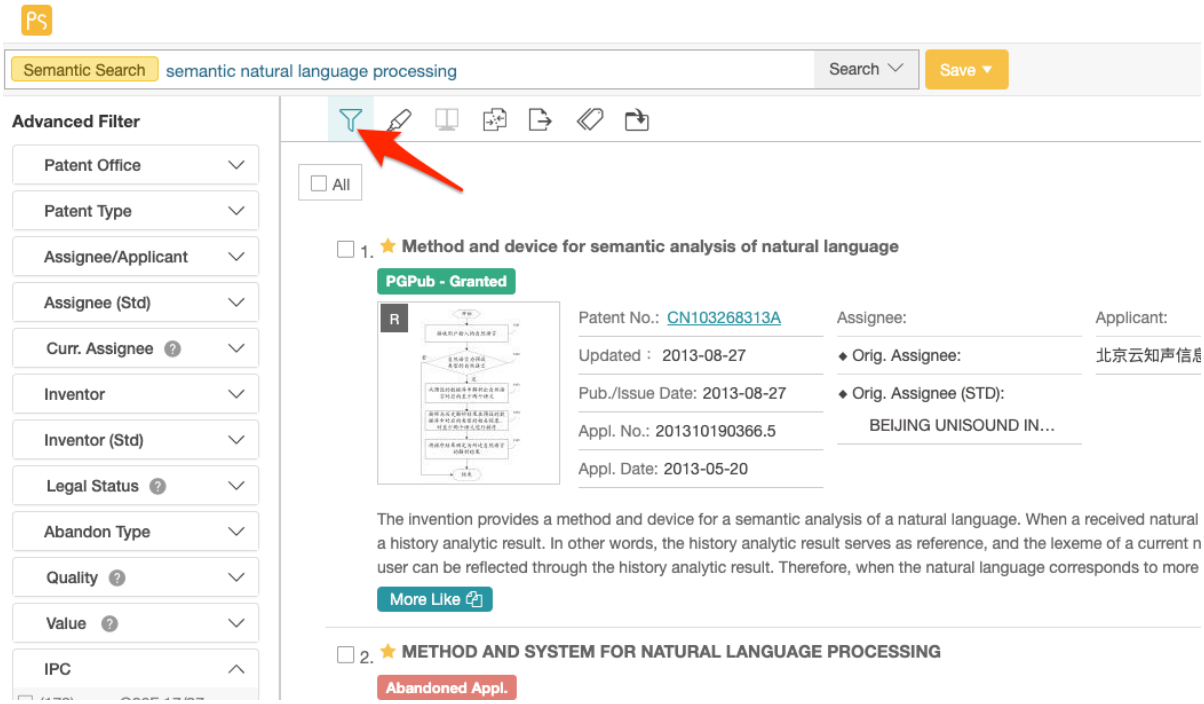
System-identified keywords will automatically be highlighted. Click on the Highlighter icon to add/remove keywords or turn the highlighter feature on/off. You can also save 10 sets that can hold up to 40 keywords each - this makes it quicker and easier to highlight the same set of keywords across different search results.



To learn more, refer to this Highlighter guide.

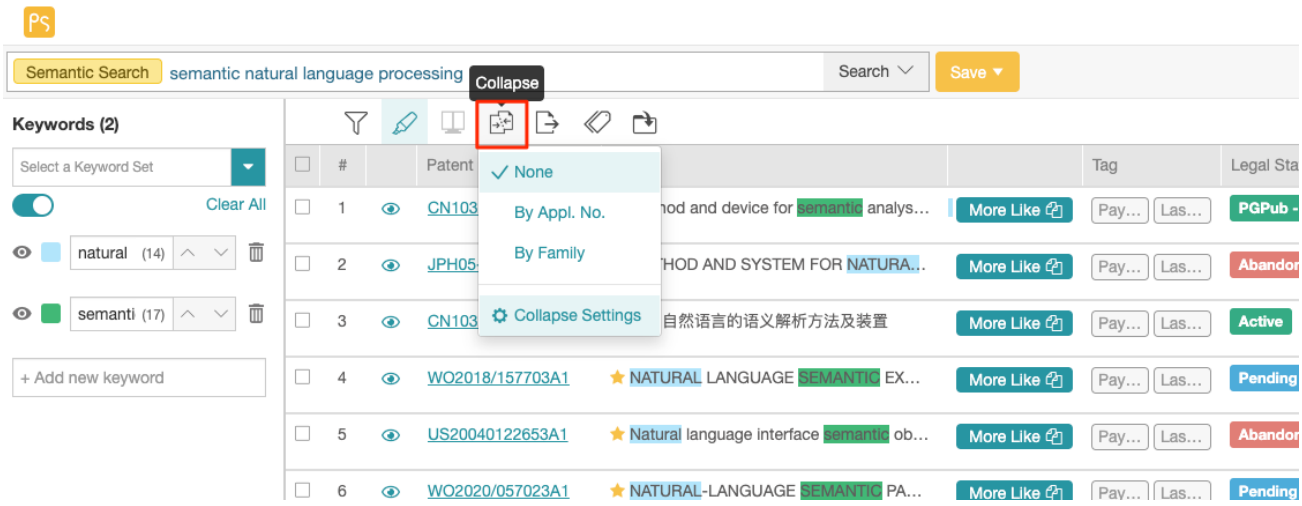
Filter results

Further refine your search by using the Advanced Filter on the left pane. Click on the Filter icon to see the options.



Collapse by Application No. or by Family

Go through the Semantic Search results quickly by using the Collapse function. Collapse results by application number or by family. The sort sequence (#) will still be based on the family member with the highest rank.

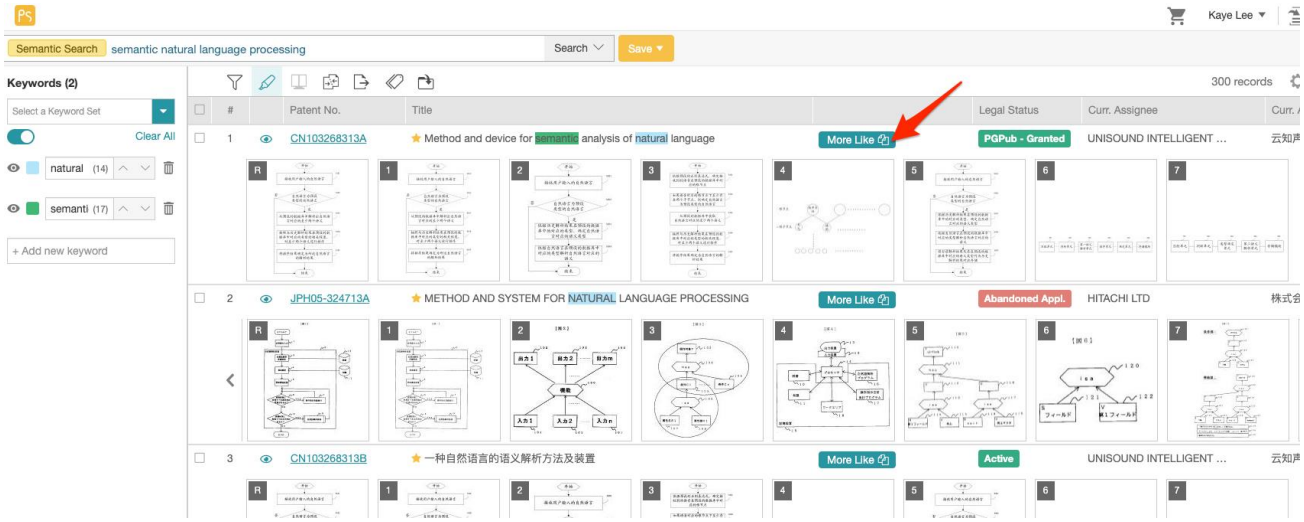


Consider using different view modes to suit your reading preference.

Add a specific search result to update your query

Use a highly relevant search result to update your query and improve the relevance of your results.

Click on the More Like button and the system will run another 300 results using the selected patent and the original search text as a new query.



Visual Analytics

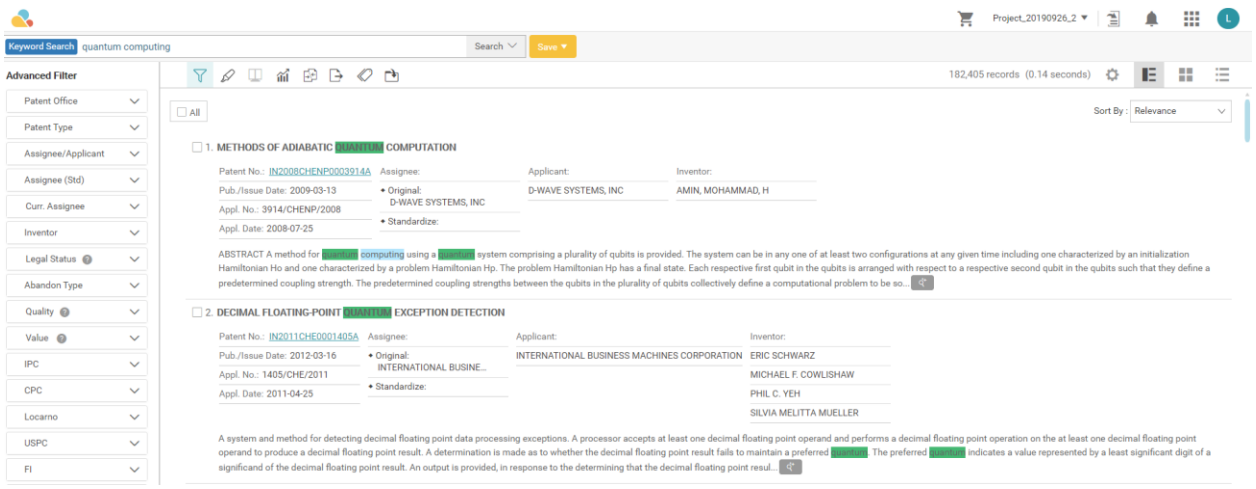
Basic Analysis in Patent Search

There are two ways to retrieve a statistical chart for basic analysis. It can be used either for a preliminary search result or for a project.

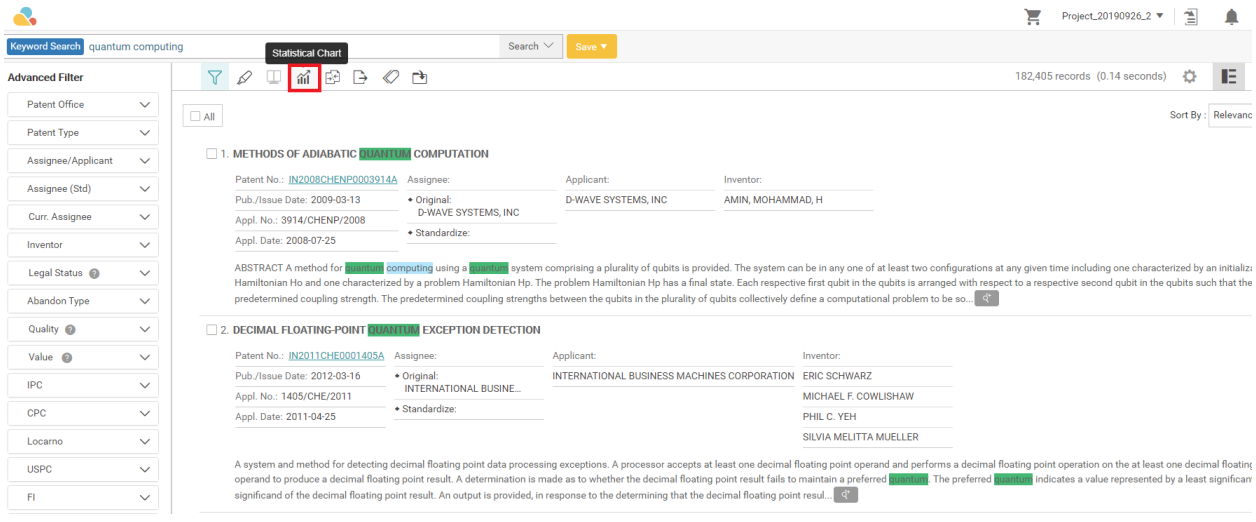
Statistical Chart for a Search Result

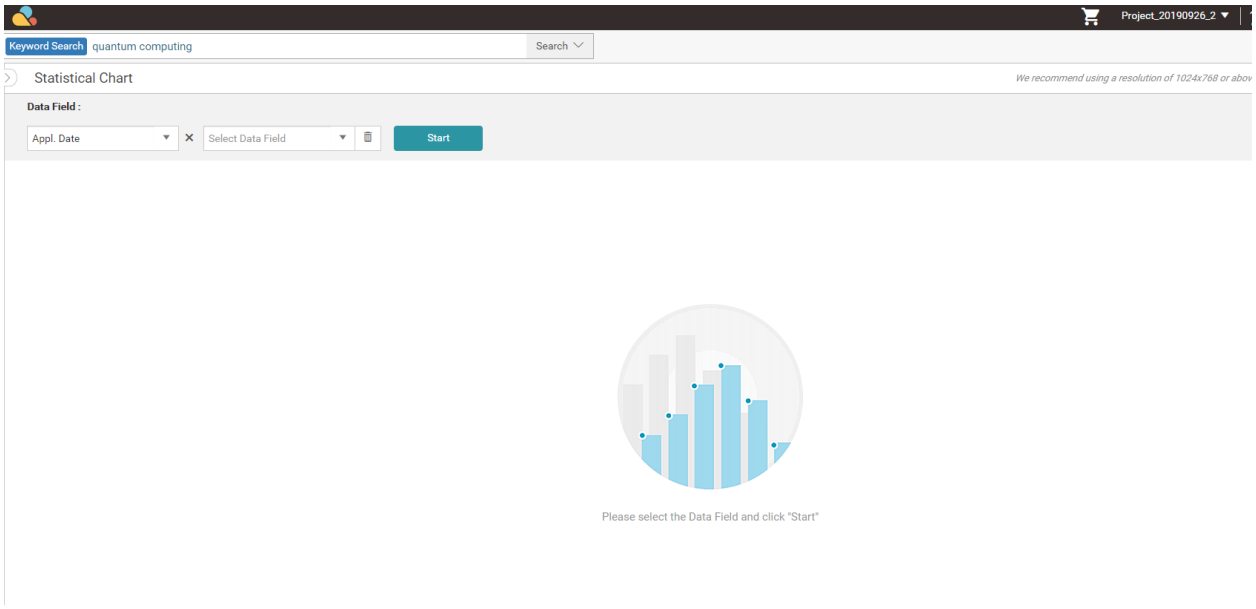
Patent Search offers basic analyses based on a variety of data after queries. To use this statistics feature, follow the steps below:

1. A result is displayed after a data search.

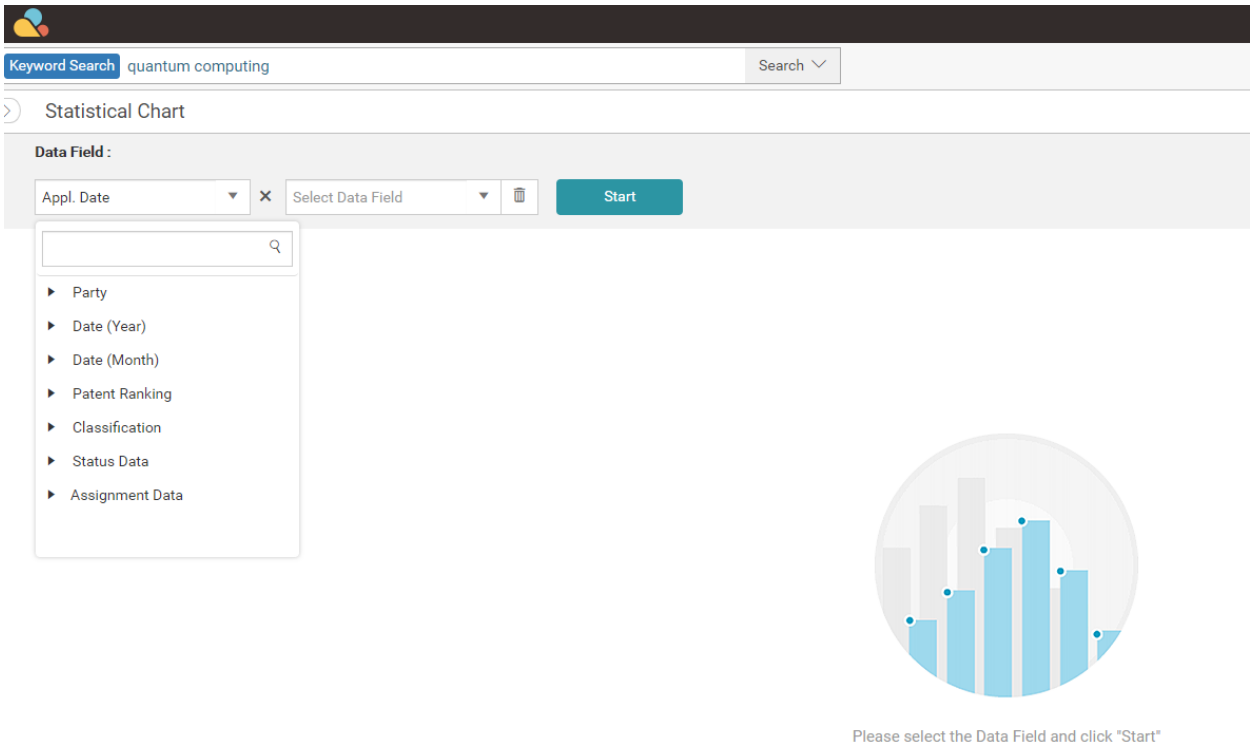


2. Click on the **Statistical Chart** button. This will take you to the statistics feature.

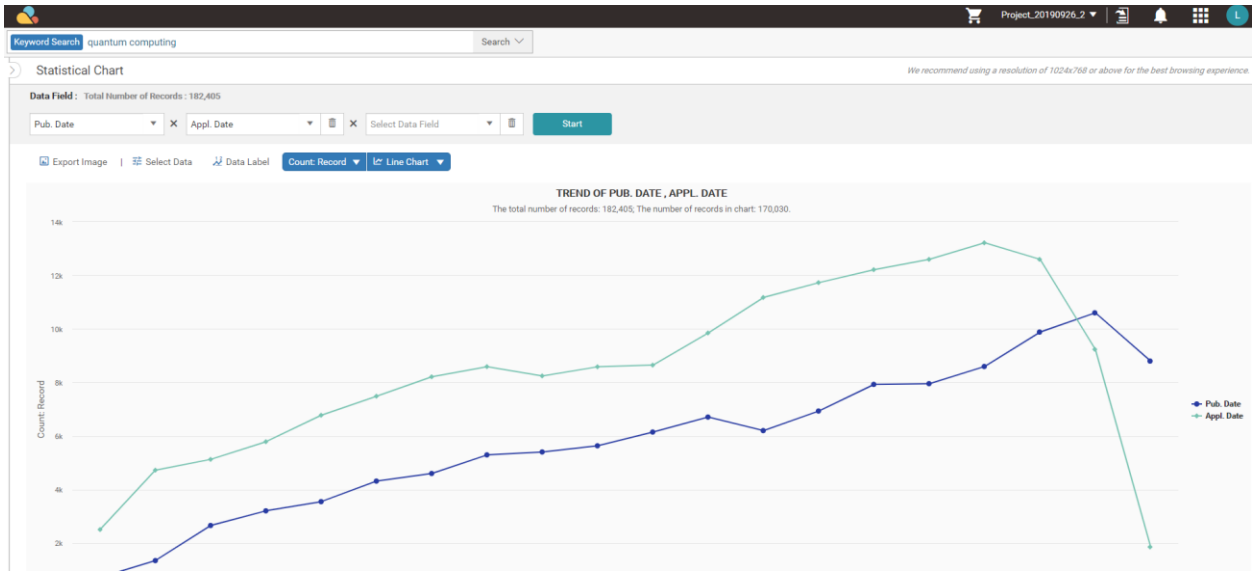




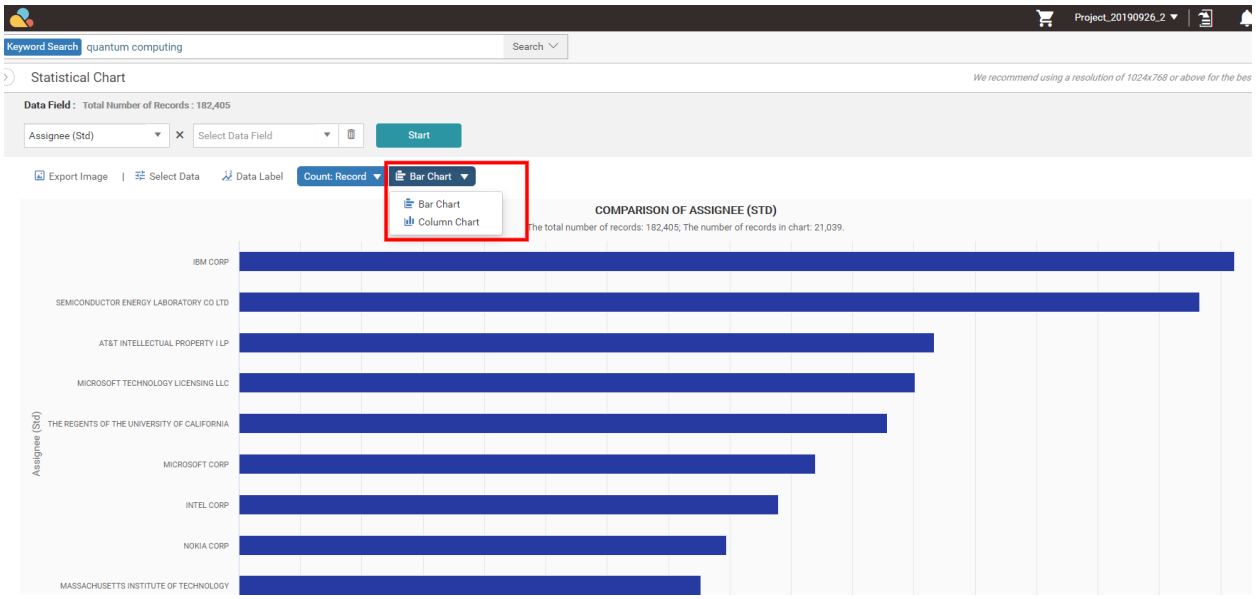
3. In the **Data Field** section, you will see a drop-down menu. Use the drop-down menu to view the data fields you can select for a statistical chart to be based upon.



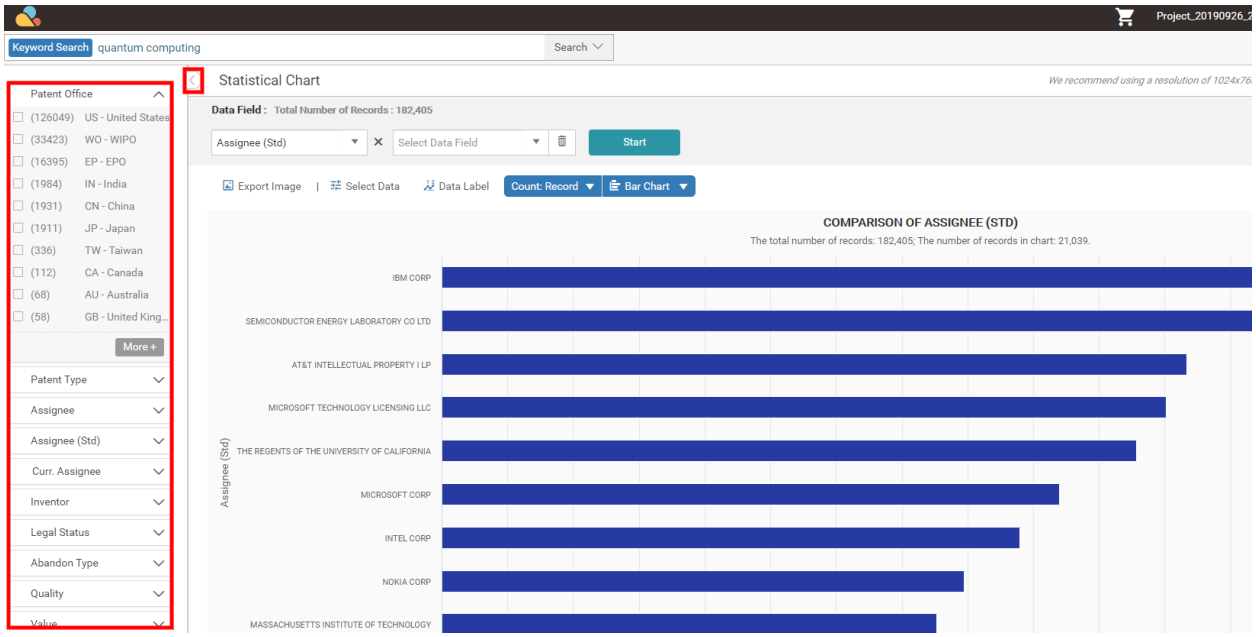
4. After selecting the desired data field(s), a statistical chart will be displayed. In this case, two data fields were selected.



5. Viewing charts in other formats (e.g., bar charts) is also possible, but this cannot be done for a time-related data field. Press the Bar Chart button for chart options, and then select the chart format that you prefer.



6. You can also further narrow down your search by filtering your search by various parameters. Select the parameters you wish to filter by (on the left-hand side of the page), and then press **Filter**. If you cannot see the filter panel, make sure to click on the Expand to the left icon .

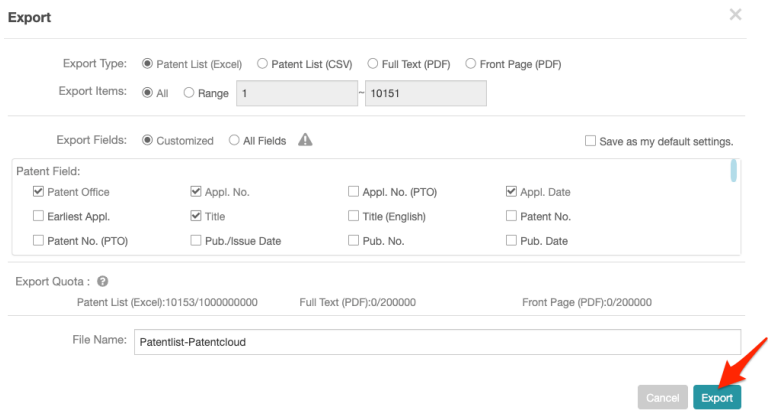

Project_20190926_2
Keyword Search
quantum computing
Search
Statistical Chart
We recommend using a resolution of 1024x76
Data Field : Total Number of Records : 182,405
Assignee (Std)
Select Data Field
Start
Export Image
Select Data
Data Label
Count: Record
Bar Chart
Patent Office
(126049) US - United States
(33423) WO - WIPO
(16395) EP - EPO
(1984) IN - India
(1931) CN - China
(1911) JP - Japan
(336) TW - Taiwan
(112) CA - Canada
(68) AU - Australia
(58) GB - United King...
More +
Patent Type
Assignee
Assignee (Std)
Curr. Assignee
Inventor
Legal Status
Abandon Type
Quality
Value
COMPARISON OF ASSIGNEE (STD)
The total number of records: 182,405; The number of records in chart: 21,039.
Assignee (Std)
IBM CORP
SEMICONDUCTOR ENERGY LABORATORY CO LTD
AT&T INTELLECTUAL PROPERTY I LP
MICROSOFT TECHNOLOGY LICENSING LLC
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
MICROSOFT CORP
INTEL CORP
NOKIA CORP
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Export, Import, Save & Add

Export (Patent)

Patentcloud allows users to export search results into a variety of formats, including patent list (.xls or .csv format), patent document full-text (.zip format), and patent document front page (.pdf format).

Click on the **Export** icon , and a window will appear. Select the export type, which items and fields to export, check your export quota and give the file a name. Then, click on "Export."



Please refer to the following chart for available patent fields to export for each Patent Search price plan.

Patent Field	Basic	Advanced	Premium
Patent Office	Y	Y	Y
Appl. No.	Y	Y	Y
Appl. No. (PTO)	Y	Y	Y
Appl. Date	Y	Y	Y
Earliest Appl.	Y	Y	Y
Title	Y	Y	Y
Title (English)	Y	Y	Y
Patent No.	Y	Y	Y
Patent No. (PTO)	Y	Y	Y
Pub./Issue Date	Y	Y	Y
Pub. No.	Y	Y	Y
Pub. Date	Y	Y	Y
Issue No.	Y	Y	Y
Issue Date	Y	Y	Y
Cert. No.	Y	Y	Y
Pub. Date (Gazette)	Y	Y	Y
Patent Type	Y	Y	Y
Assignee	Y	Y	Y
Assignee (Std)		Y	Y
Curr. Assignee		Y	Y
Applicant	Y	Y	Y
Inventor	Y	Y	Y
Inventor (Std)		Y	Y
Agency	Y	Y	Y
Examiner	Y	Y	Y
Assistant Examiner	Y	Y	Y

Patent Field	Basic	Advanced	Premium
Main USPC	Y	Y	Y
Main IPC	Y	Y	Y
Main Locarno	Y	Y	Y
Main CPC	Y	Y	Y
USPC	Y	Y	Y
IPC	Y	Y	Y
Locarno	Y	Y	Y
CPC	Y	Y	Y
FI	Y	Y	Y
Abstract		Y	Y
Abstract (English)		Y	Y
First Claim		Y	Y
Family ID	Y	Y	Y
Simple Family		Y	Y
Rep. Figure/Fig. 1		Y	Y
Legal Status		Y	Y
Earliest Priority	Y	Y	Y
Inactive Date		Y	Y
Estimated Exp. Date		Y	Y
PCT Appl. Date	Y	Y	Y
Quality		Y	Y
Value		Y	Y
Patentcloud Link	Y	Y	Y
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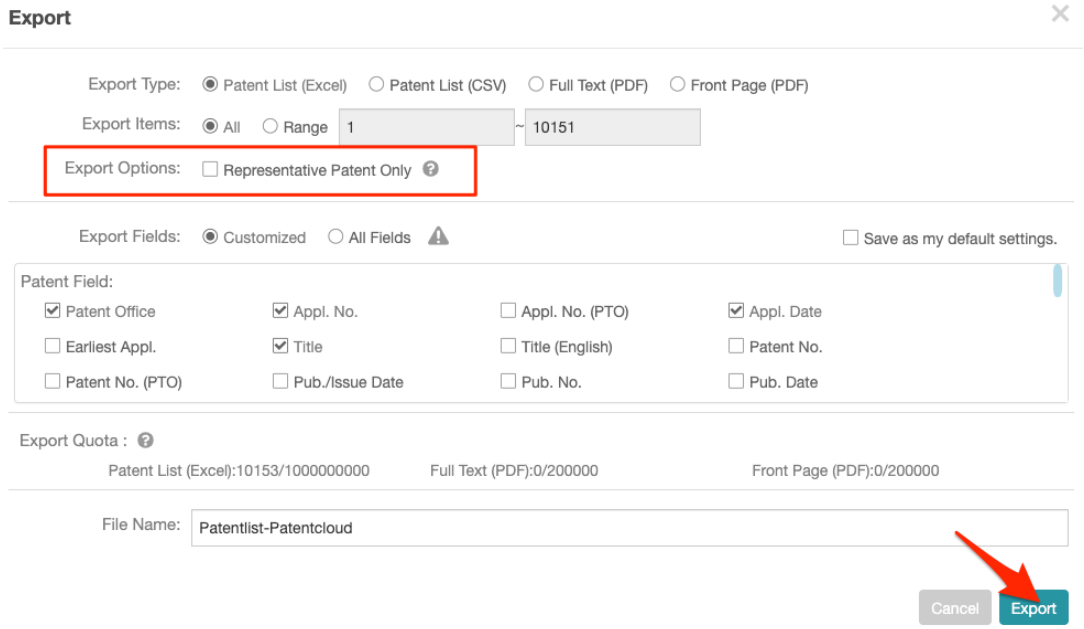
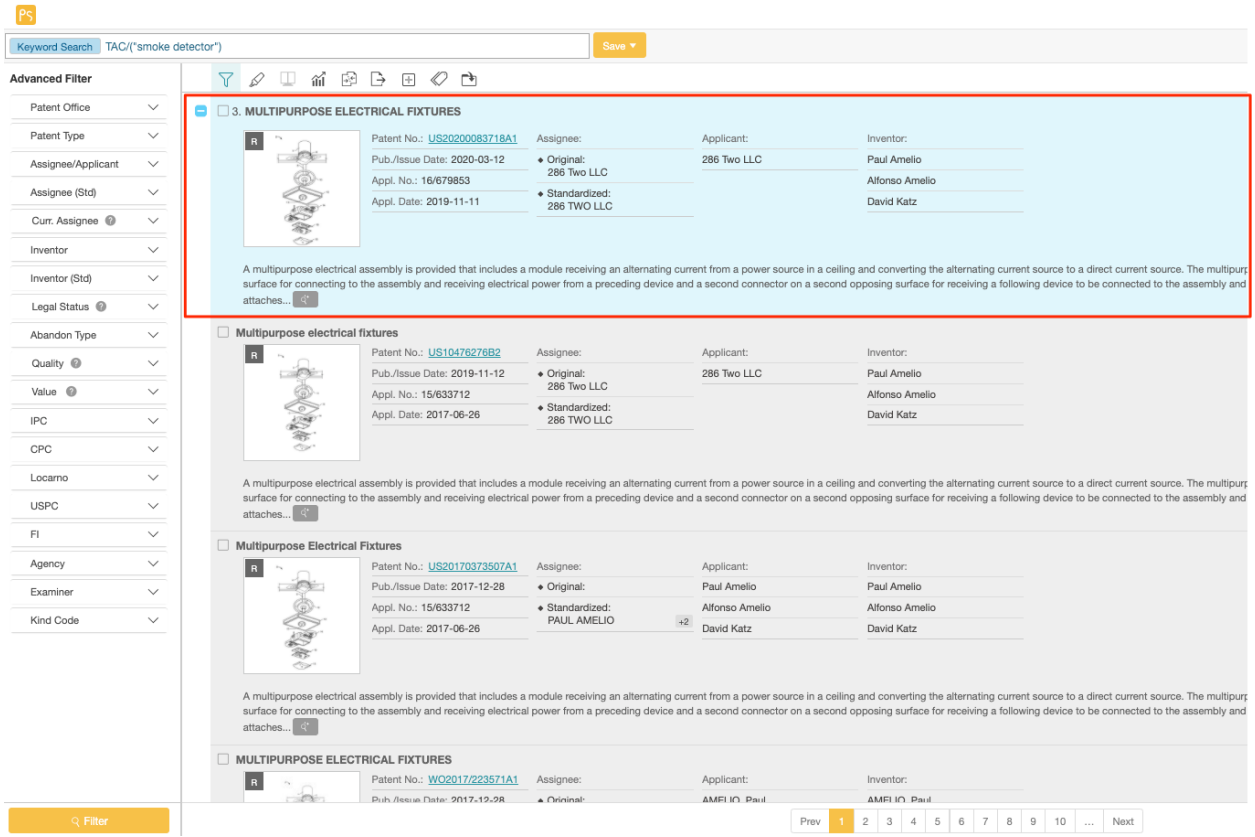
Folder Path			Y
Folder Memo			Y

If you are exporting results that have been collapsed by application number or by family, there will be an additional selection for Export Options: Representative Patent Only.

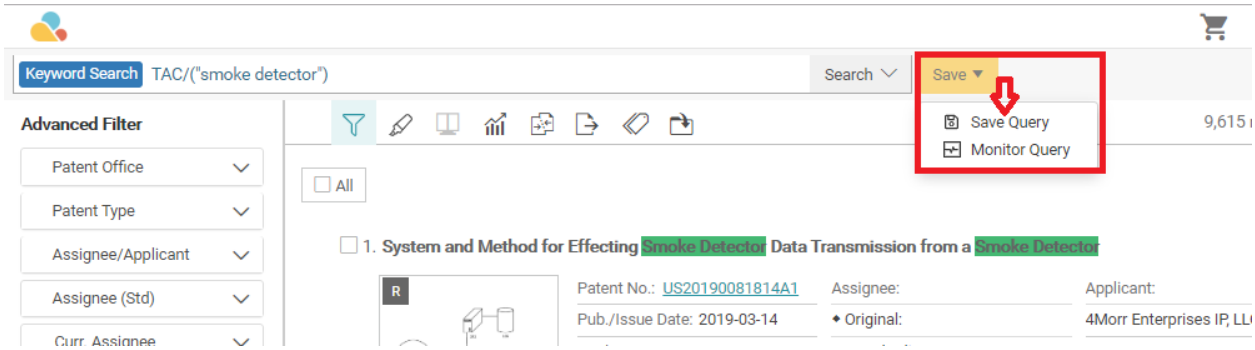


Representative Patent pertains to the first or visible result on the search results page once the collapse feature is activated (refer to image below).

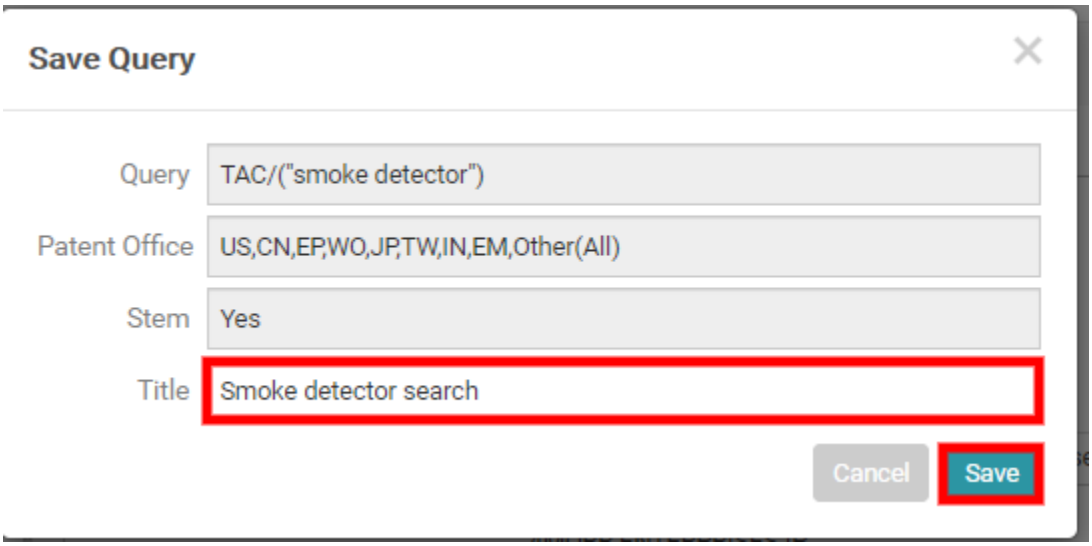


Save Query

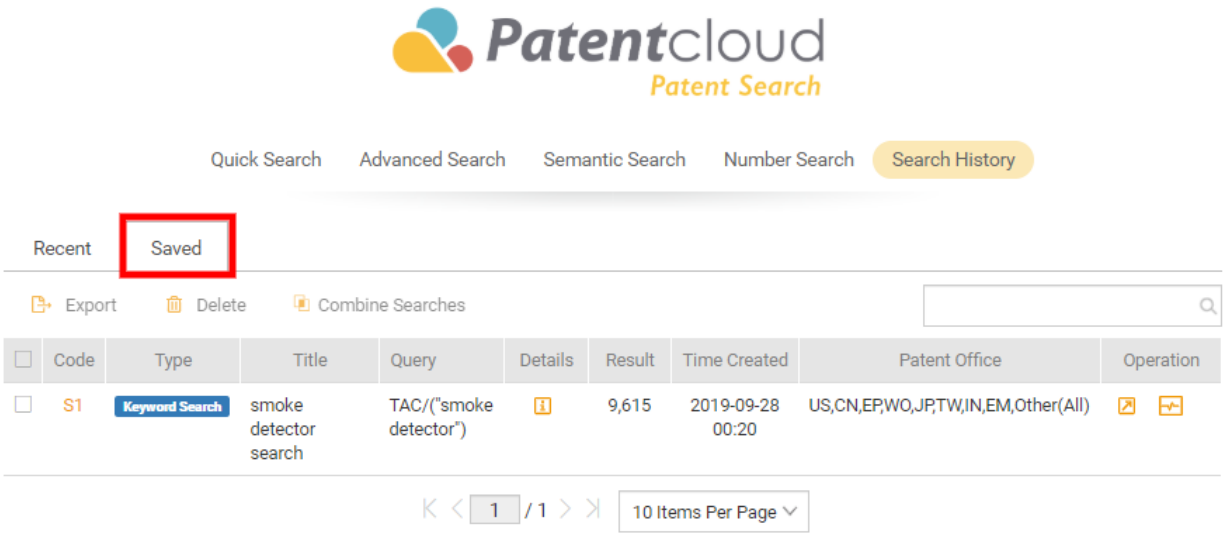
When you want to save a query, click on the **Save** button next to the Search Box. Then, click on **Save Query**.



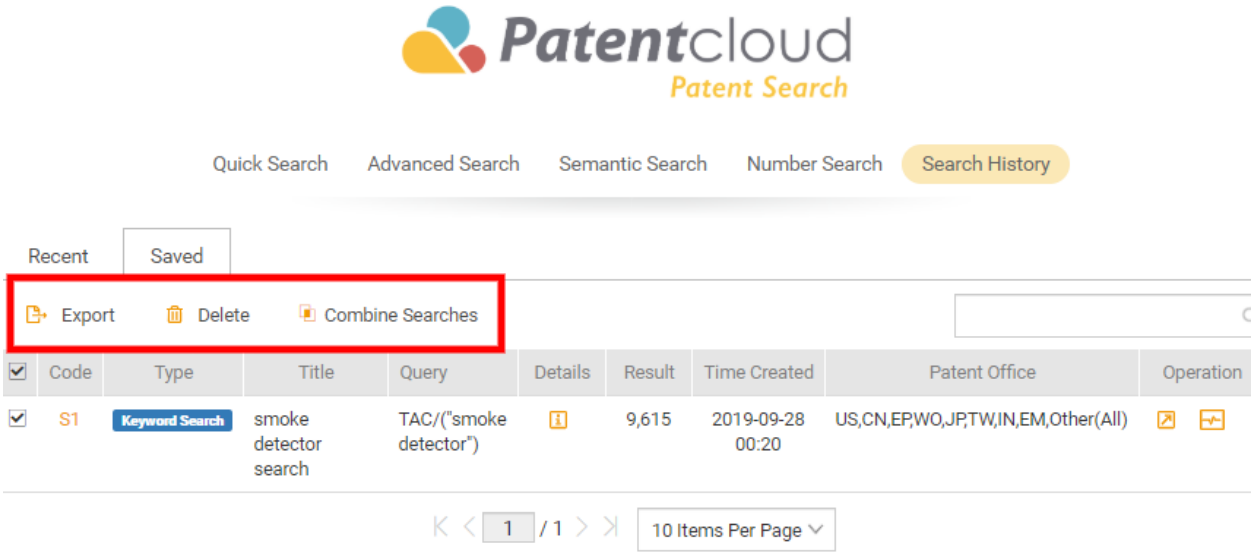
Assign a title to your saved query.



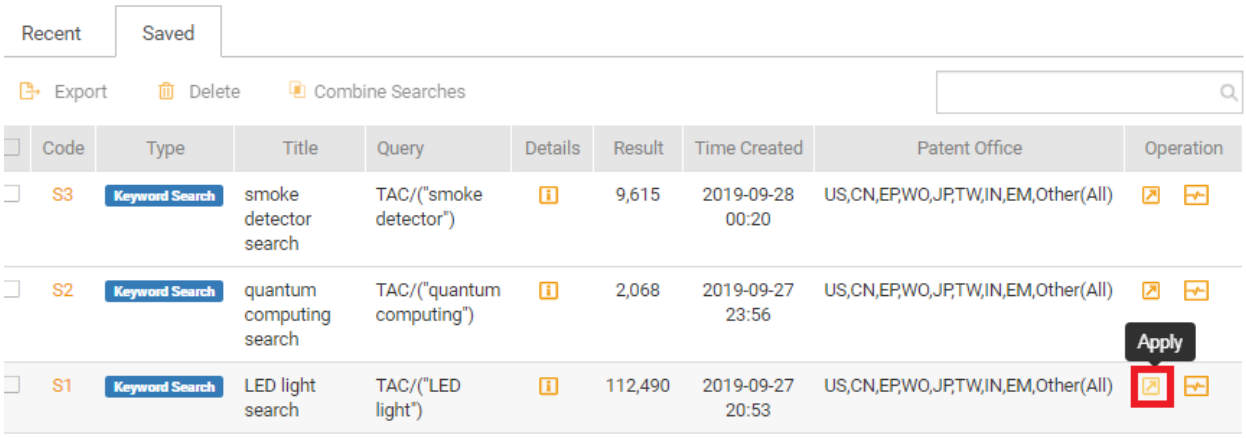
Saved queries can be found in the Saved tab of the Search History page. It will remain there until you delete it.



To export, delete, or combine multiple queries, tick the corresponding checkboxes and click on the respective buttons.



Under the Operation column, click on the Apply icon to conduct the same search; or click on the Monitor Query icon to receive regular monitoring updates (only for Patent Search subscribers who have Patent Vault).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S3
Keyword Search
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TAC/("smoke detector")
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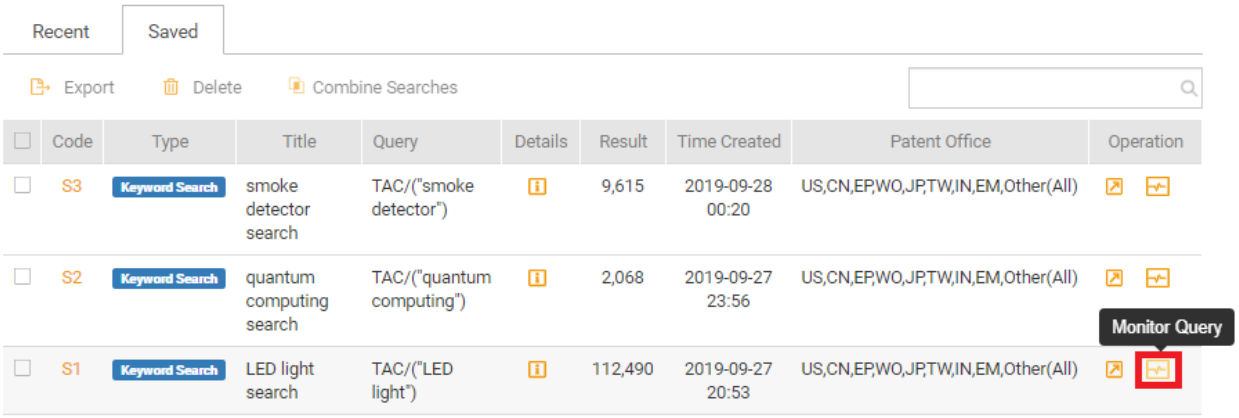
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S3
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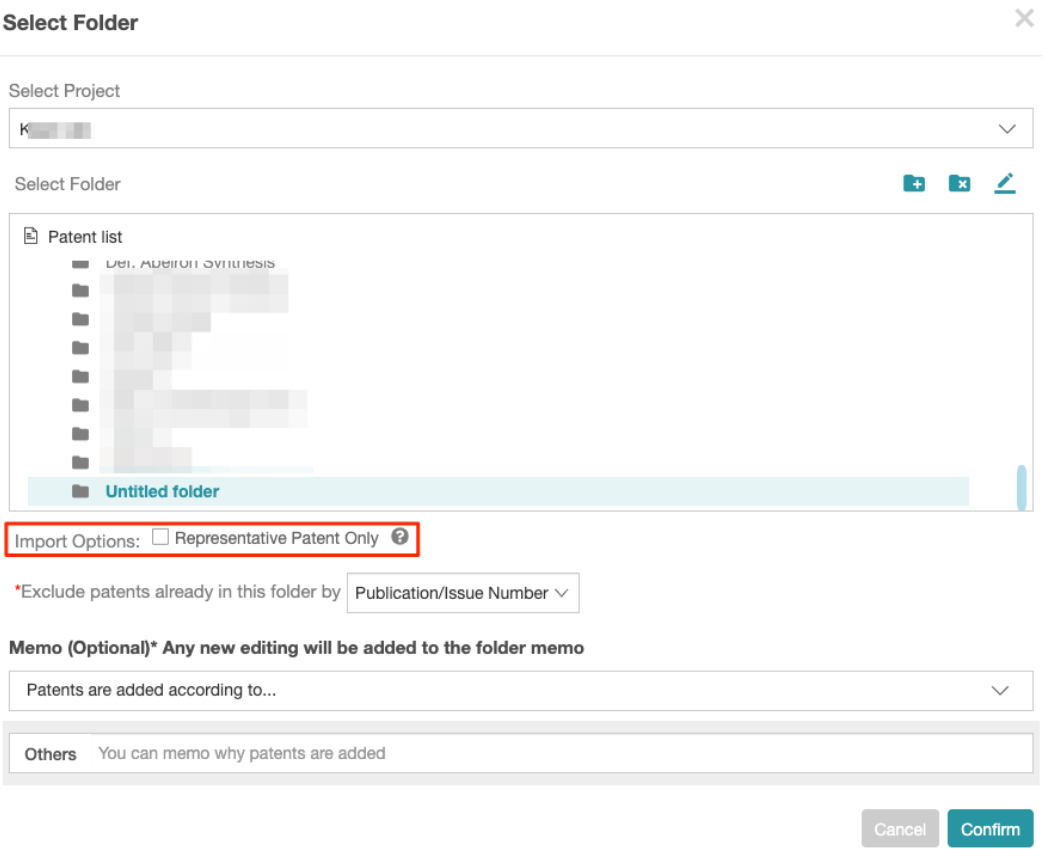
Add to Project in Patent Vault

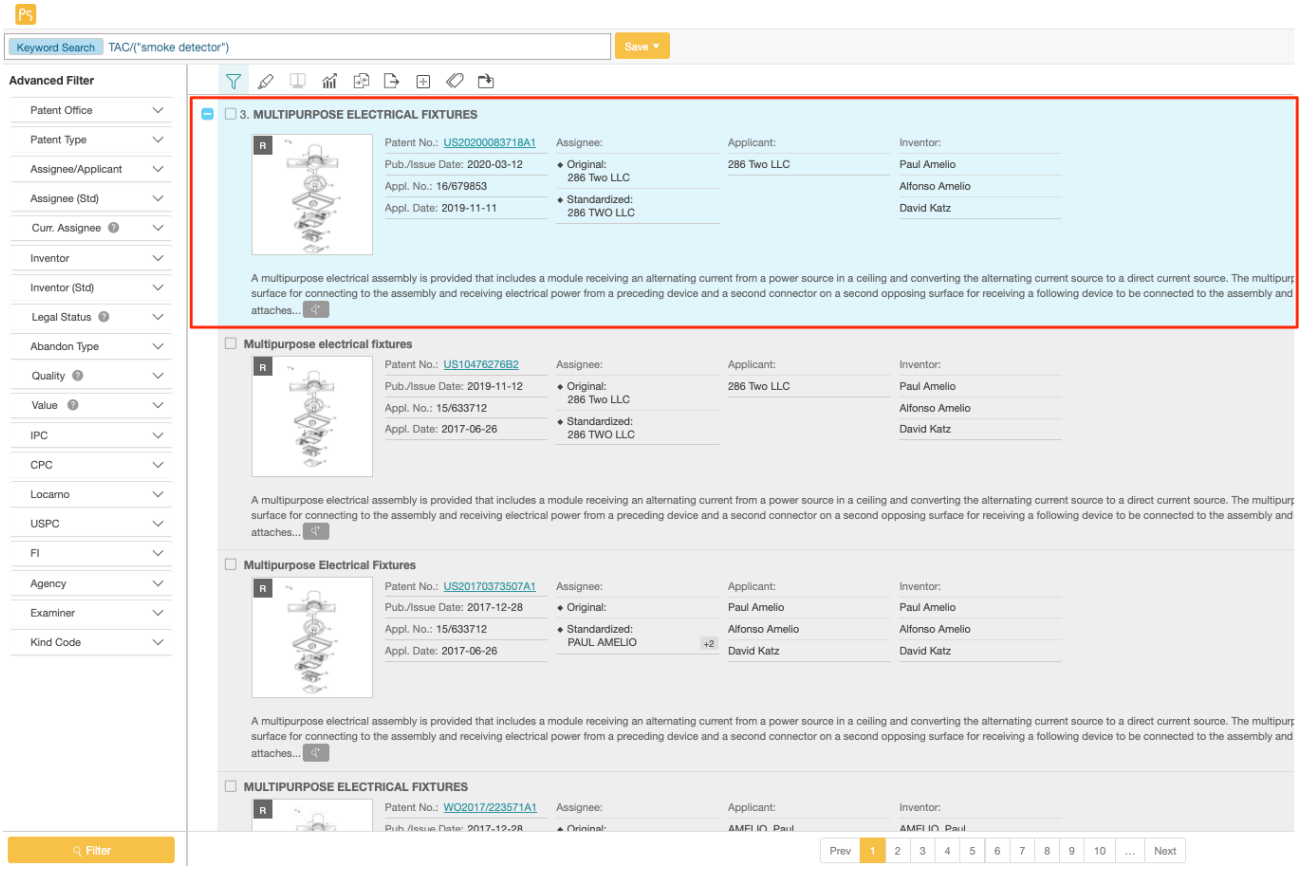
Patent Search users with Patent Vault can save selected search results and add them directly into a project.

Selecting patents

To select or deselect all results, please refer to this article. **Caution**: If the results have been collapsed by application number or family, you have an Import Option to select the Representative Patent Only.

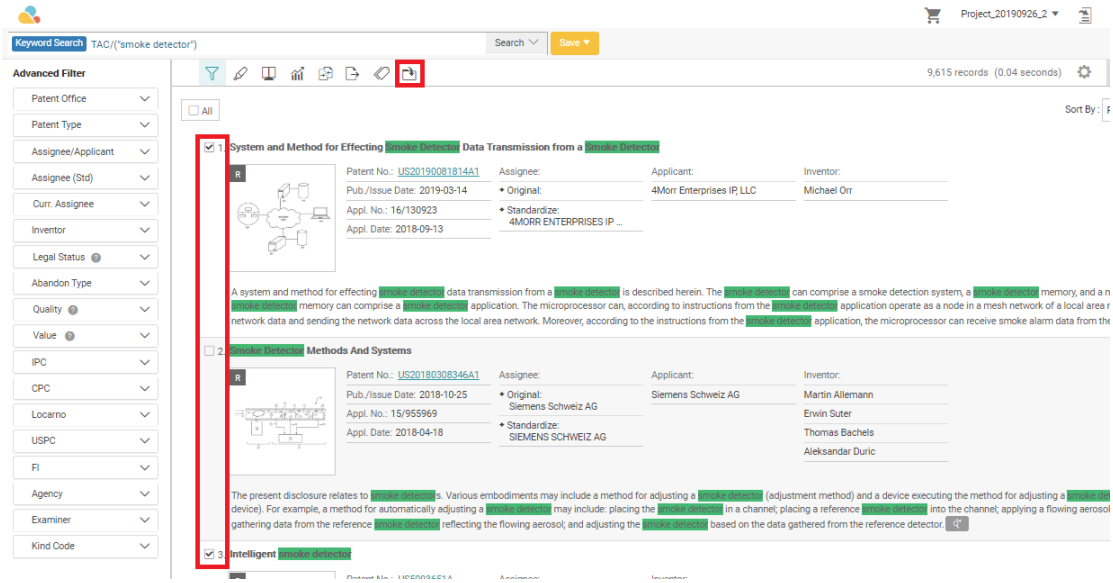


Representative Patent pertains to the first or visible result on the search results page once the collapse feature is activated (refer to image below).

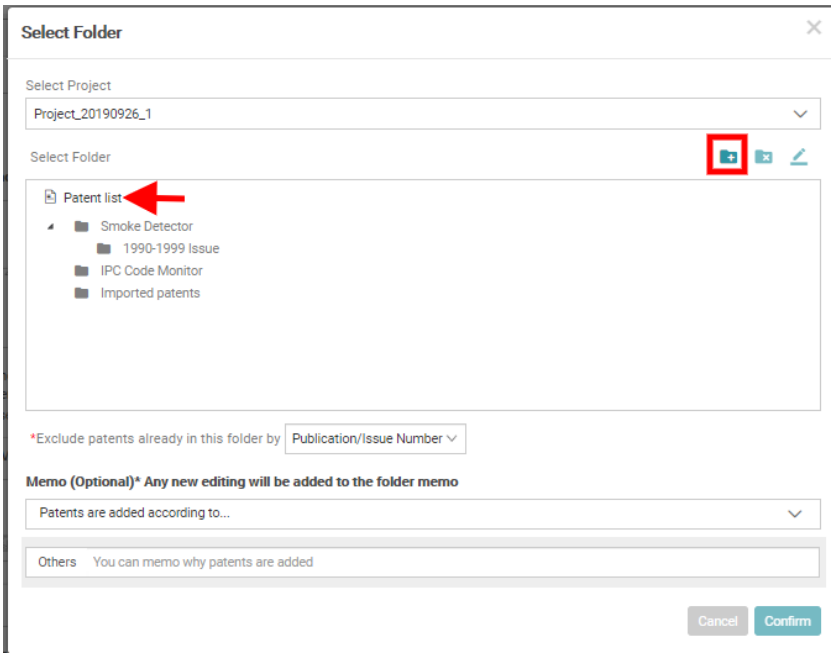


Adding patents into a project

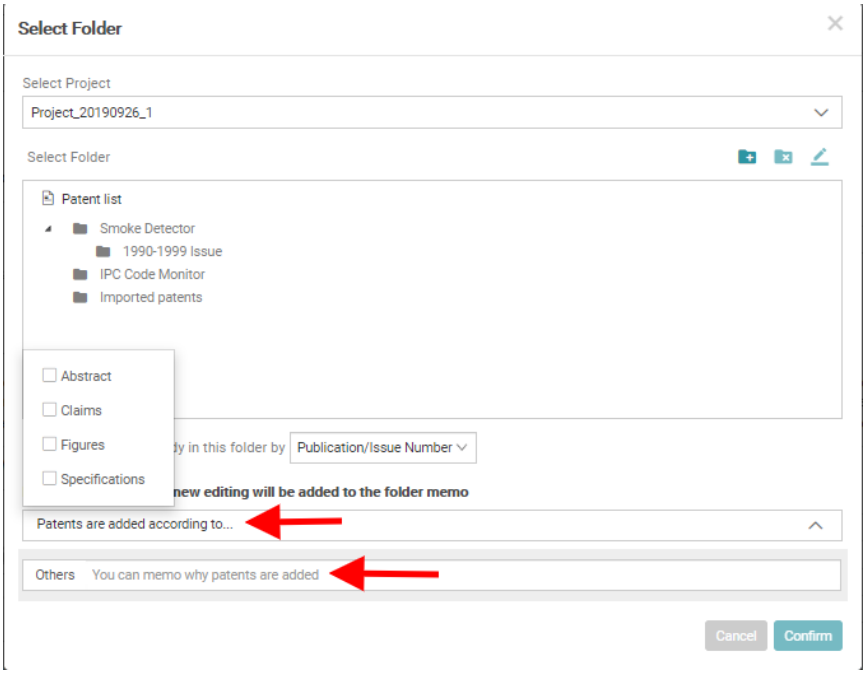
1. After selecting the patents, click on the Add to Project icon  .



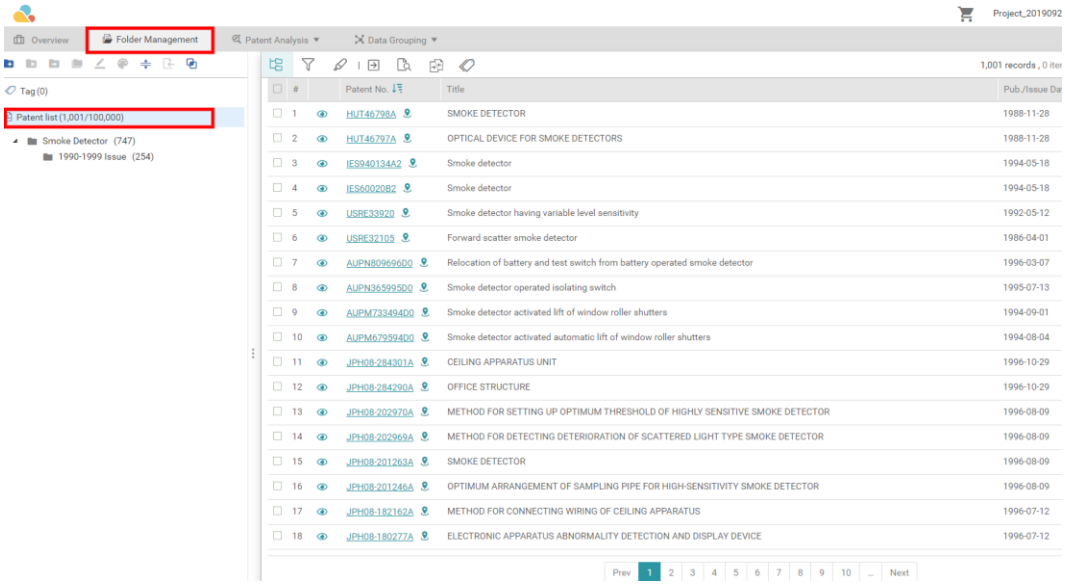
2. Select an existing folder by clicking on the folder name. Otherwise, you can create a new folder by clicking on Patent List then on the Add icon (as shown below). Click on the Edit icon to rename the folder. Then, click Confirm.



3. You can add a memo on why the patents are added into the folder and classify these memos by Abstract, Claims, Figures, Specifications, or Others. Then, click Confirm.



4. Open Patent Vault, select your project, and you can find the added patents in their corresponding folder.



January 21, 2021