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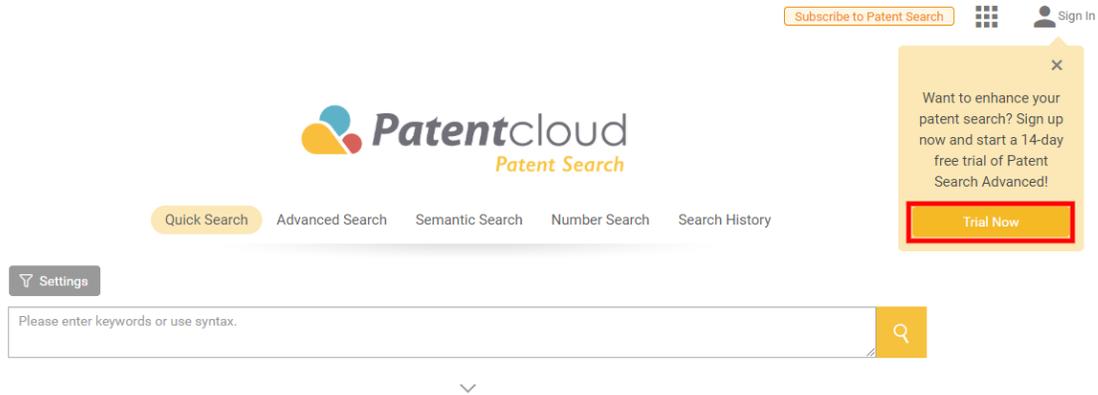
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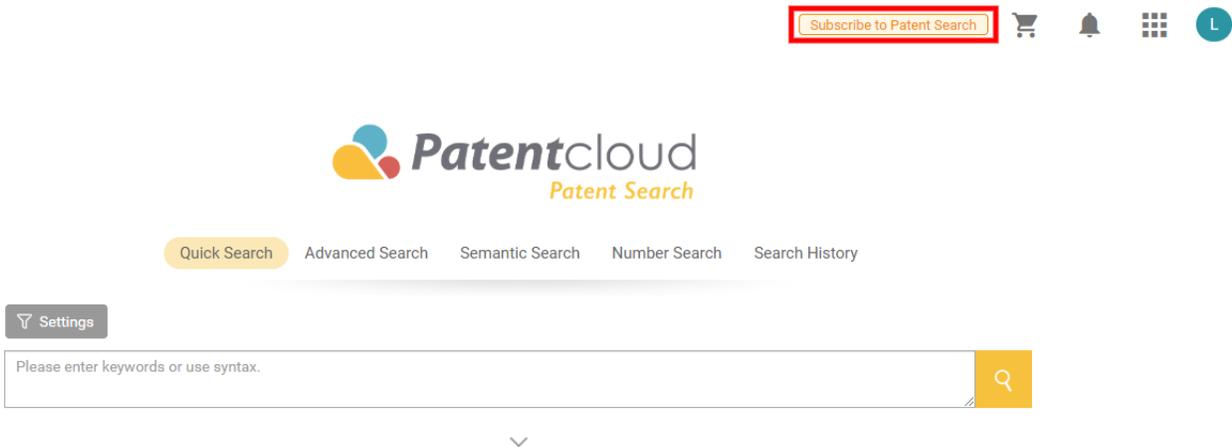
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| US\$14.25 /mo US\$ 171 /year | US\$104.25 /mo US\$ 1251 /year | US\$149.25 /mo US\$ 1791 /year |
| Basic plan features: <ul style="list-style-type: none">Basic search featuresSmart Search, Classification SearchAssignment and Prosecution HistoryEstimated Legal Status | All Basic plan features, plus: <ul style="list-style-type: none">Semantic SearchCorporate Affiliation SearchPatent Assignment Data SearchQuality and Value Rankings | All Advanced plan features, plus: <ul style="list-style-type: none">Data Management Storage for 100,000 Patents in Patent VaultCollaboration and ManagementAnalysis Features |
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| | Price |
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| Product Details | |
| PS Patent Search | |
| Patent Search Premium Subscription (Yearly) | \$1,791 USD |
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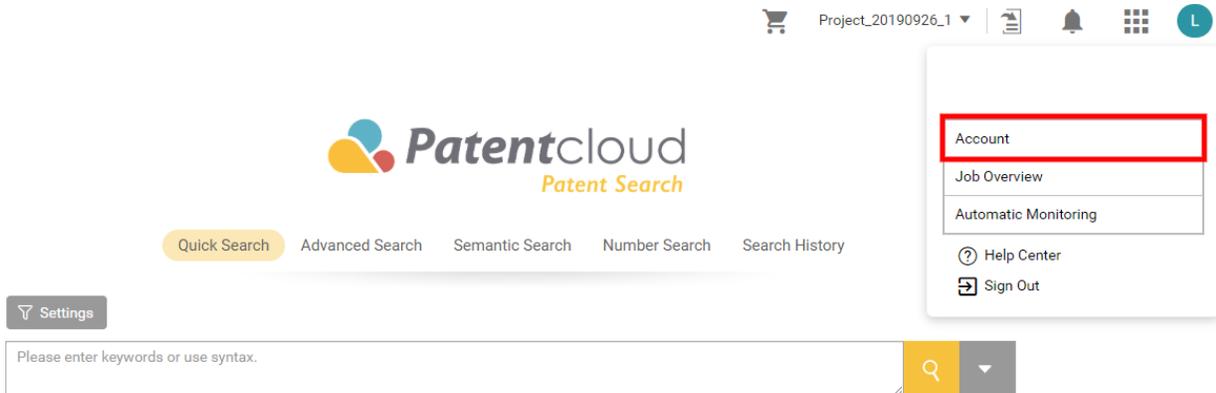
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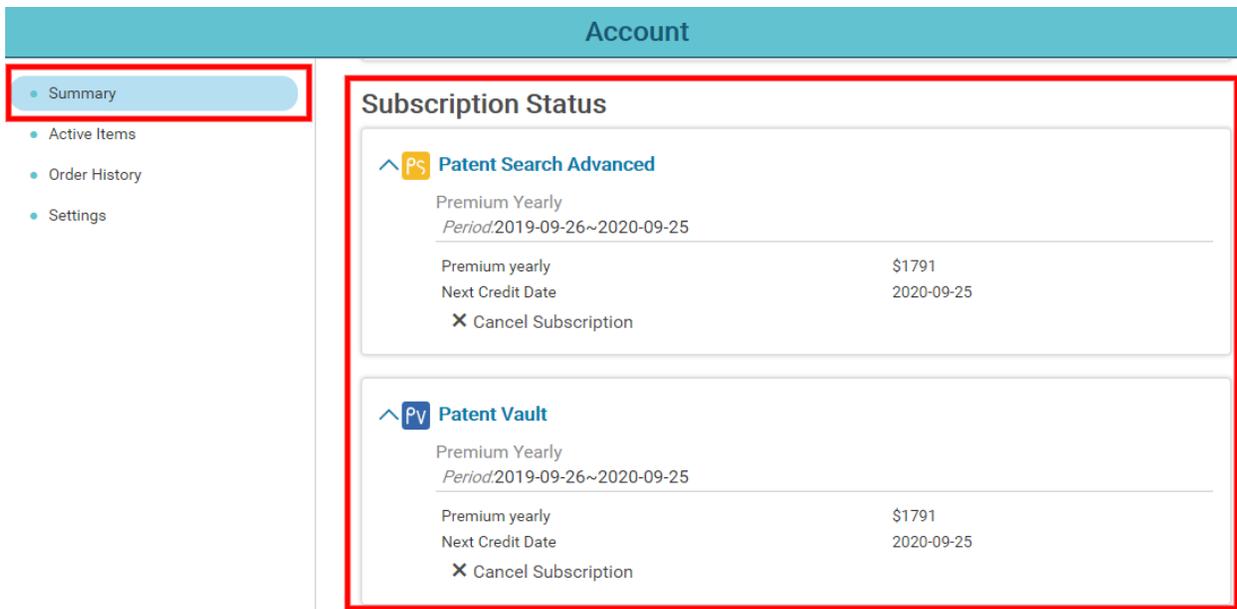
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8. Click on the round icon on the upper right side, then click on **Account**.



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

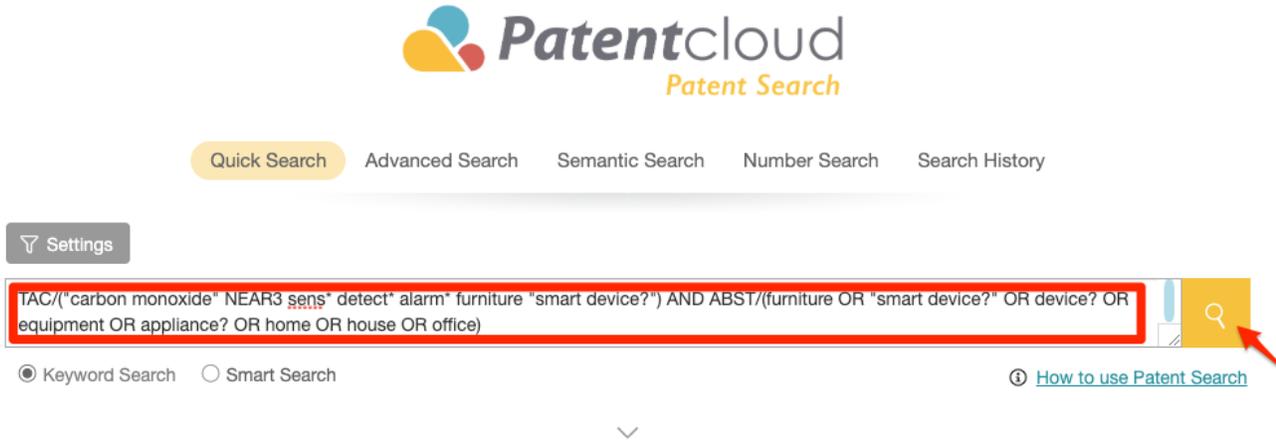


Data Search

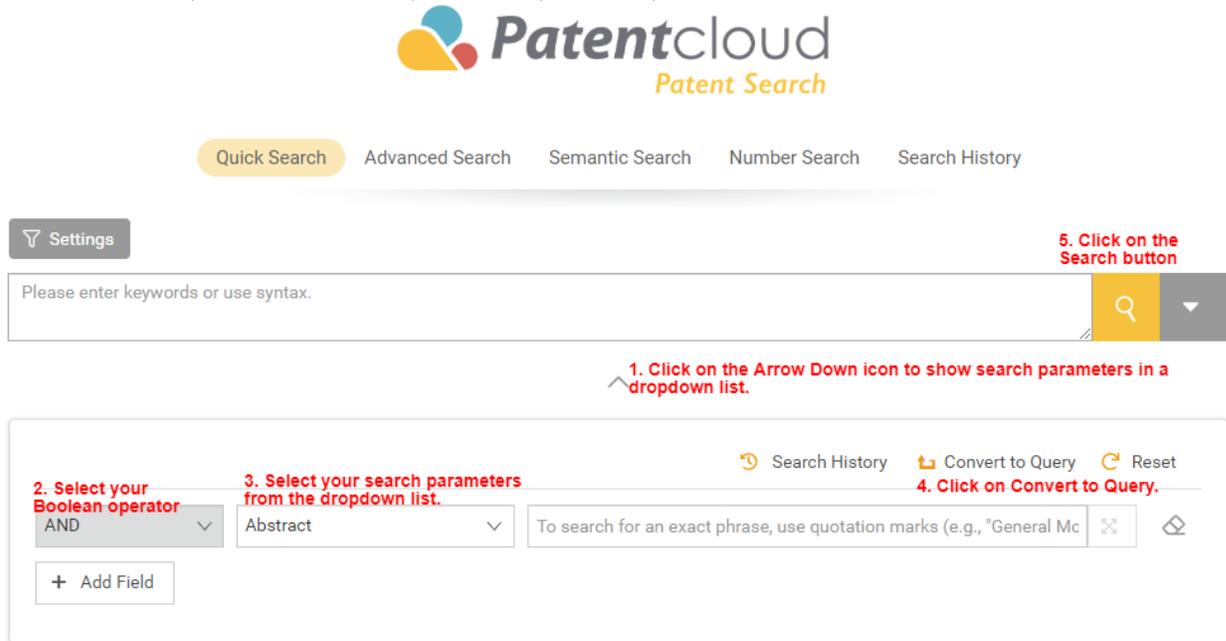
Quick Search

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.

Patentcloud Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings

TAC car **1.a Enter your search query using the dropdown list.** OR 696,171 Apply

Abstract led light OR 4,383,174 Apply

TAC Use quotation marks for an exact phrase, e.g. "led lamp". OR Count Apply

+ Add Field

1.b Enter your search query using syntax.

You can use syntax here if you need to search for complex queries.

Syntax

2. Click Count to view number of results. Click on the number to view results.

3. Click Apply to save and combine later. [How to use Patent Search](#)

Search Report

AND OR NOT Clear all

1 and 2

4. Click Combination and input the No. you want to combine with a Boolean operator.

5. Click Count to view number of results. Click on the number to view results. Result: Count Apply

6. Click on Apply to save and combine later.

| No. | Field | Keywords | Optimum Query ? | Boolean | Result | Delete |
|------------------------------|-------------|-----------|----------------------|---------|-----------|--------|
| 3 2020-03-13 16:58 | Combination | 1 and 2 | Set as Optimum Query | | 47,423 | |
| 2 2020-03-13 16:58 | Abstract | led light | Set as Optimum Query | OR | 4,383,174 | |
| 1 2020-03-13 16:57 | TAC | car | Set as Optimum Query | OR | 696,171 | |

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](#).

The screenshot shows a search interface with two query boxes. The first box has 'Abstract' selected in the dropdown and 'car' in the text field. The second box has 'Abstract' selected and 'led light led AND light' in the text field. A dropdown menu for the second box is open, showing 'AND', 'OR', and 'AND' options, with 'AND' selected. To the right, there is a 'Count' button and an 'Apply' button. A 'Reset' button is also visible at the top right.

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.

The screenshot shows a 'Search Report' interface. At the top, there are buttons for 'AND', 'OR', and 'NOT', and a 'Clear all' button. Below this, there is a section for '1 and 2'. The main part of the interface is a table with the following columns: No., Field, Keywords, Optimum Query, Boolean, Result, and Delete. The table contains three rows of search results. The first row is highlighted with a red box. The second row is also highlighted with a red box. The third row is not highlighted.

| No. | Field | Keywords | Optimum Query | Boolean | Result | Delete |
|--------------------------|-------------|-----------|----------------------|---------|-----------|--------|
| 3 2020-03-13 16:58 | Combination | 1 and 2 | Set as Optimum Query | | 47,423 | |
| 2 2020-03-13 16:58 | Abstract | led light | Set as Optimum Query | OR | 4,383,174 | |
| 1 2020-03-13 16:57 | TAC | car | Set as Optimum Query | OR | 696,171 | |

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

Search Report  Update the number of results

Export records into an Excel file 
Save query in Search History 
View Search History 

| No. | Field | Keywords | Optimum Query ? | Boolean | Result | Delete |
|---------------------------------|-------------|-----------|--------------------------------------|-------------------------|-----------|---|
| 3 2020-03-13 16:58 | Combination | 1 and 2 | Set as Optimum Query | | 47,423 |  |
| 2 2020-03-13 16:58 | Abstract | led light | Set as Optimum Query | OR <input type="text"/> | 4,383,174 |  |
| 1 2020-03-13 16:57 | TAC | car | Set as Optimum Query | OR <input type="text"/> | 696,171 |  |

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 |
|---|----------------------|--|---------|------------|-------|---|---|
|  | | | | | | | |
| Advanced Search Report | | | | | | | |
| | Patent Office | Full Text : US, CN, EP, WO, JP, TW, IN, EM | | | | | |
| | Patent Type | Bibliography/Abstract (90+ Authorities) : KR, AU, BR, CA, CH, DE, DK, ES, FI, FR, GB, ID, IL, IT, MY, NL, RU, SE, ZA | | | | | |
| | Patent Status | Utility Patent, Utility Model, Design, Plant, Others | | | | | |
| | Stemming (Keyword On | Publication, Issue | | | | | |
| | | | 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.

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings Reset

| | | | | |
|----------|---|----|-----------|-------|
| TAC | car | OR | 696,171 | Apply |
| Abstract | led light | OR | 4,383,174 | Apply |
| TAC | Use quotation marks for an exact phrase, e.g. "led lamp". | OR | Count | Apply |

+ Add Field

You can use syntax here if you need to search for complex queries. Count Apply Syntax

[How to use Patent Search](#)

Search Report

| No. | Field | Keywords | Optimum Query ? | Boolean | Result | Delete |
|---------------------------------|-------------|-----------|-----------------------------|---------|-----------|--------|
| 3 2020-03-13 16:58 | Combination | 1 and 2 | Set as Optimum Query | | 47,423 | |
| 2 2020-03-13 16:58 | Abstract | led light | Set as Optimum Query | OR | 4,383,174 | |
| 1 2020-03-13 16:57 | TAC | car | Set as Optimum Query | OR | 696,171 | |

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

Save to Search History

Title *

car with led light

Optimum Query

| No. | Field | Keywords | Result |
|----------|-------------|----------|--------|
| 3 | Combination | 1 and 2 | 47423 |

You can select optimum query in the search report list, or the latest item will be set as the default optimum query.

Cancel **Confirm**

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



Quick Search Advanced Search Semantic Search Number Search **Search History**

Recent **Saved**

Export Delete

| <input type="checkbox"/> | Code | Type | Title | Query | Details | Result | Time Created | Operation |
|--------------------------|------|-----------------|----------------------------|--------------------------------|---------|-----------|------------------|-----------|
| <input type="checkbox"/> | S3 | Advanced Search | car with led light | See all Record | | 47,423 | 2020-03-13 17:18 | |
| <input type="checkbox"/> | S2 | Keyword Search | Led tech research 20190116 | LED | | 4,107,685 | 2019-07-01 10:29 | |
| <input type="checkbox"/> | S1 | Keyword Search | CO detector | carbon monoxide detector | | 51,184 | 2019-05-20 17:09 | |

◀ < 1 / 1 > ▶ 10 Items Per Page ▾

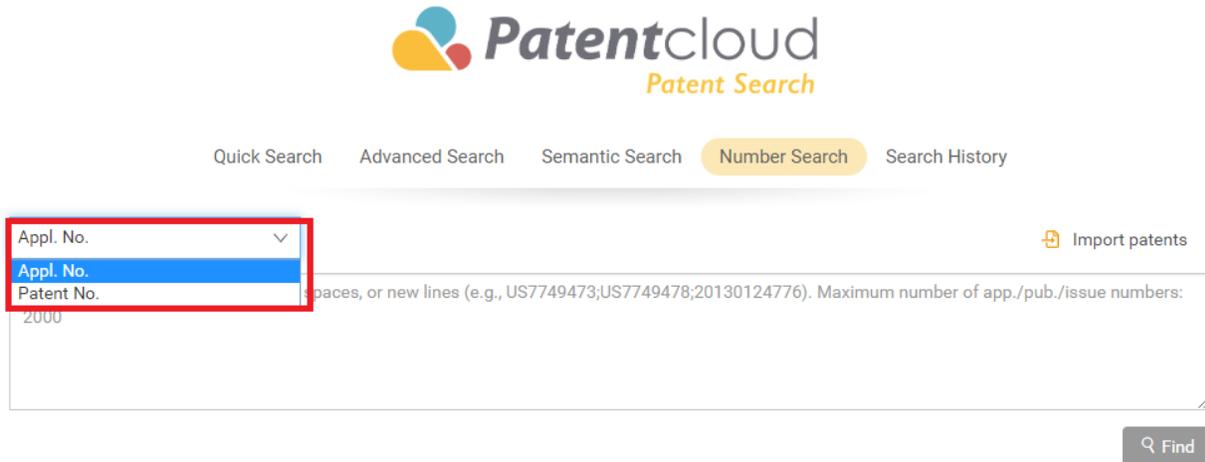
* Patentcloud automatically saves up to 100 queries.

To know more about the functions available in Search History, please refer to this [article](#).

Number Search

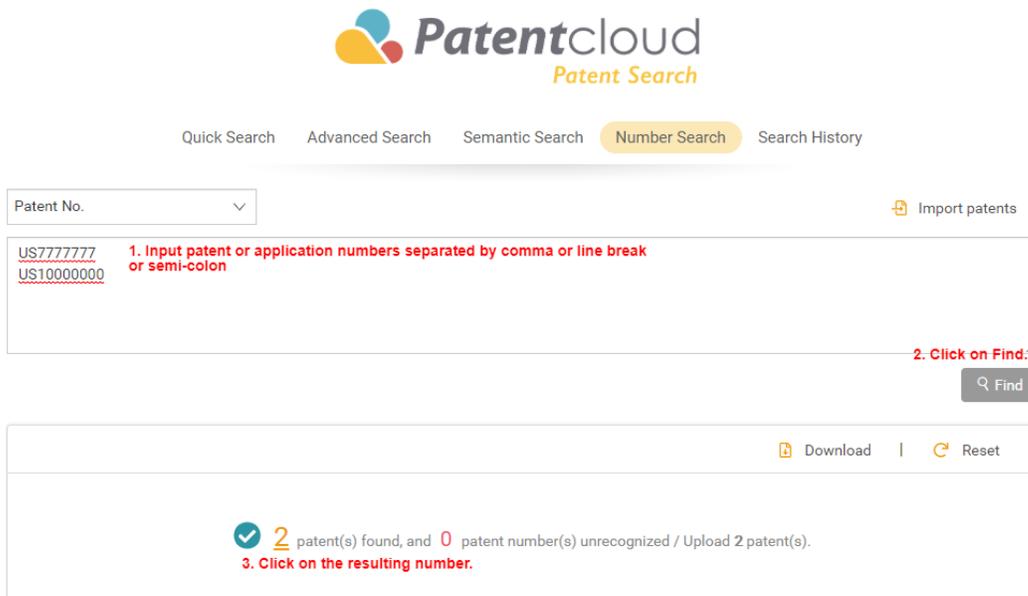
Number Search gives you the ability of searching without the hassle of using the patent or application number syntax. It optimizes patent search and improves the accuracy by eliminating any irrelevant results. (Separate numbers with semicolons, spaces, or new lines. Maximum number of app./pub./issue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

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



The screenshot shows the Patentcloud Patent Search interface. At the top, there is a navigation bar with the following options: Quick Search, Advanced Search, Semantic Search, Number Search (highlighted), and Search History. Below the navigation bar, there is a search input area. On the left, a dropdown menu is open, showing three options: Appl. No. (selected), Appl. No., and Patent No. To the right of the dropdown, there is an 'Import patents' button. Below the dropdown, there is a text input field with a placeholder text: 'spaces, or new lines (e.g., US7749473;US7749478;20130124776). Maximum number of app./pub./issue numbers: 2000'. At the bottom right of the input area, there is a 'Find' button.

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



The screenshot shows the Patentcloud Patent Search interface after a search. At the top, there is a navigation bar with the following options: Quick Search, Advanced Search, Semantic Search, Number Search (highlighted), and Search History. Below the navigation bar, there is a search input area. On the left, a dropdown menu is open, showing three options: Patent No. (selected), Patent No., and Patent No. To the right of the dropdown, there is an 'Import patents' button. Below the dropdown, there is a text input field containing the patent numbers 'US7777777' and 'US10000000'. To the right of the input field, there is a red instruction: '1. Input patent or application numbers separated by comma or line break or semi-colon'. At the bottom right of the input area, there is a 'Find' button. Below the input area, there is a results section. At the top right of the results section, there are 'Download' and 'Reset' buttons. In the center of the results section, there is a green checkmark icon followed by the text: '2 patent(s) found, and 0 patent number(s) unrecognized / Upload 2 patent(s)'. Below this text, there is a red instruction: '3. Click on the resulting number.'

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



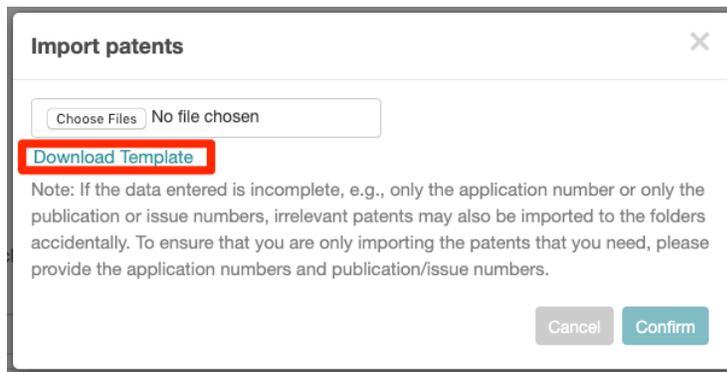
Quick Search Advanced Search Semantic Search **Number Search** Search History

Appl. No.

Import patents

Separate numbers with semicolons, spaces, or new lines (e.g., US7749473;US7749478;20130124776). Maximum number of appl/pub./issue numbers: 2000

[How to use Patent Search](#)



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 | | | | | | | | | | |

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

Patent No.

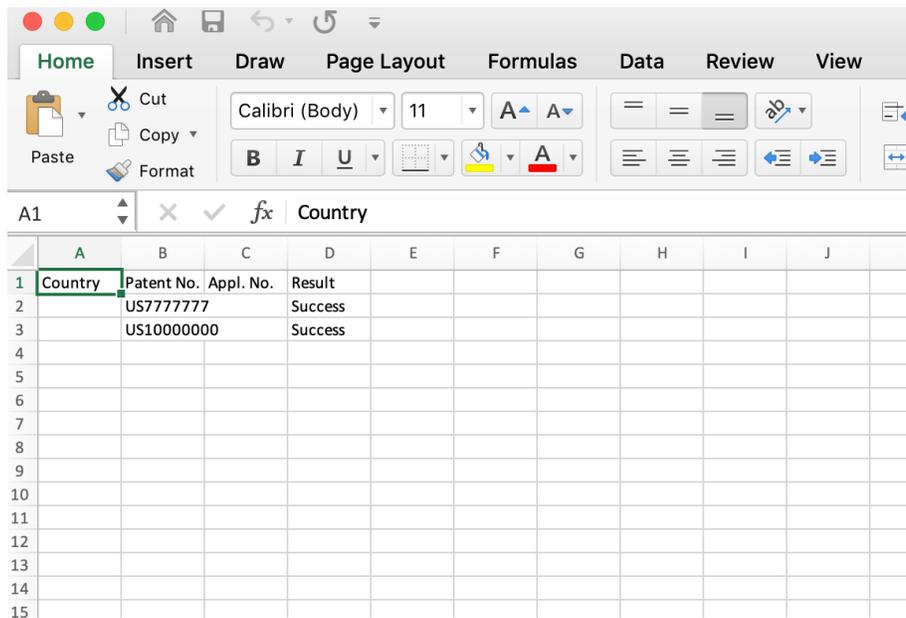
[Import patents](#)

[How to use Patent Search](#)

|

✔ **2** patent(s) found, and **0** patent number(s) unrecognized / Upload 2 patent(s).

Report will be as shown.



| Country | Patent No. | Appl. No. | Result |
|---------|------------|-----------|---------|
| | US7777777 | | Success |
| | US1000000 | | Success |
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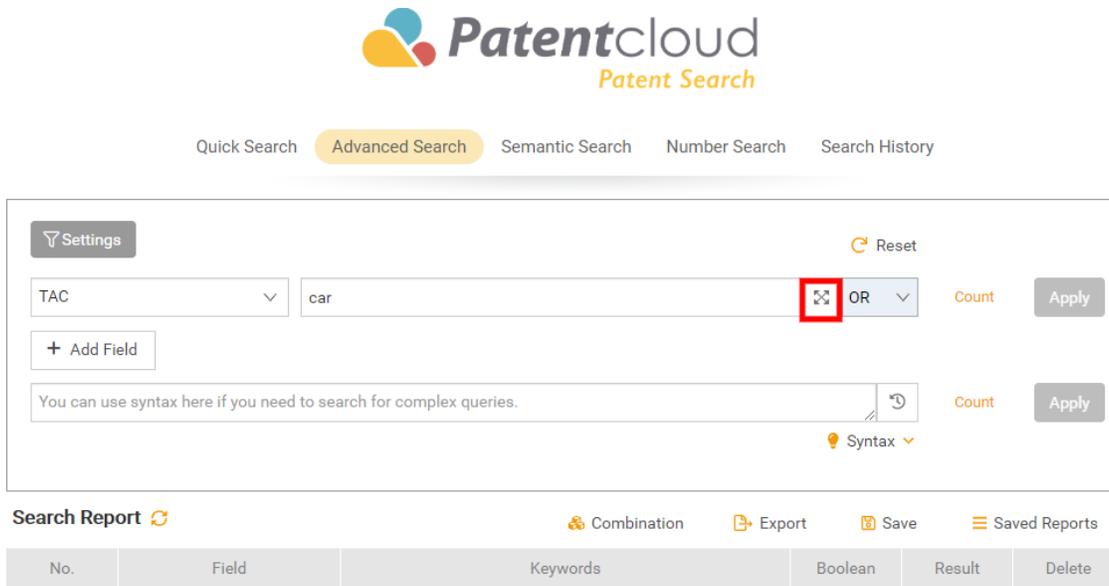
5. Search results page will be as shown.

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 



Patentcloud Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings Reset

TAC  OR Count Apply

+ Add Field

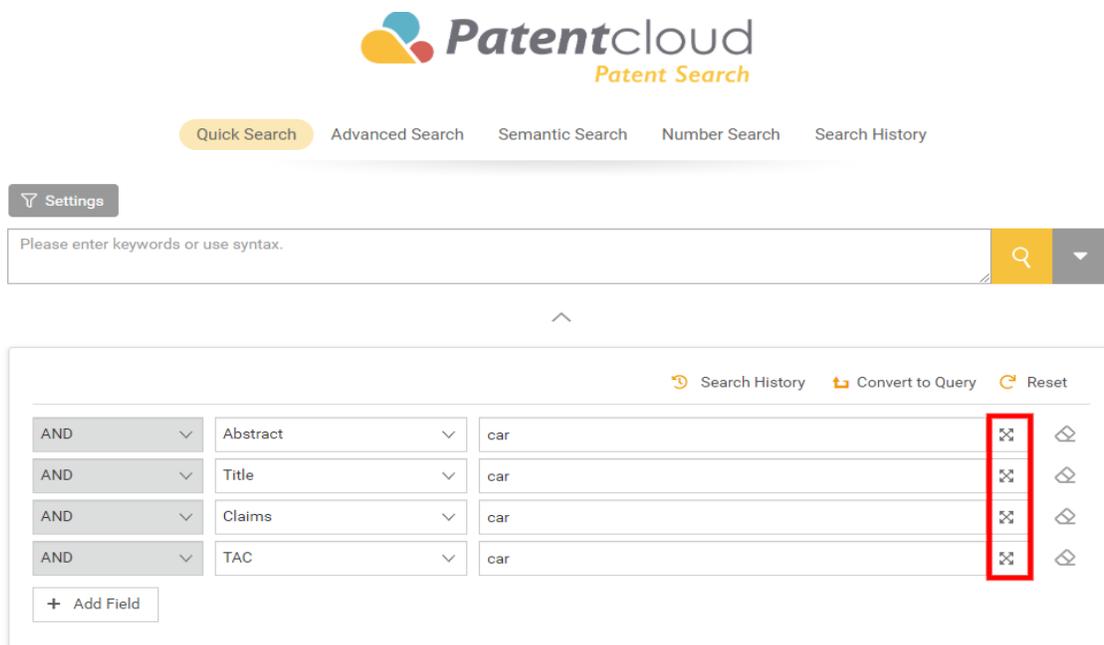
You can use syntax here if you need to search for complex queries. Count Apply

Syntax

Search Report Combination Export Save Saved Reports

| No. | Field | Keywords | Boolean | Result | Delete |
|-----|-------|----------|---------|--------|--------|
|-----|-------|----------|---------|--------|--------|

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



Patentcloud Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings

Please enter keywords or use syntax.

Search History Convert to Query Reset

| | | | | |
|-----|----------|-----|---|---|
| AND | Abstract | car |  |  |
| AND | Title | car |  |  |
| AND | Claims | car |  |  |
| AND | TAC | car |  |  |

+ Add Field

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

Keyword Expansion ✕

Select the languages you want to expand.: German English 簡中 繁中 Japanese Korean Expansion ?

Keywords:
"car" OR "auto" OR "carboxin" OR "car" OR "萆" OR "汽车" OR "萆" OR "汽車" OR "カルボキシ" OR "カルボキシ" OR "車"

Synonyms/Related Words Expansion:

| <input type="checkbox"/> | German | English | 簡中 | 繁中 | Japanese |
|-------------------------------------|---|---|---|---|---|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> car <input checked="" type="checkbox"/> auto | <input checked="" type="checkbox"/> carboxin <input checked="" type="checkbox"/> car | <input checked="" type="checkbox"/> 萆 <input checked="" type="checkbox"/> 汽车 | <input checked="" type="checkbox"/> 萆 <input checked="" type="checkbox"/> 汽車 | <input checked="" type="checkbox"/> カルボキシ <input checked="" type="checkbox"/> カルボキシ <input checked="" type="checkbox"/> 車 |
| <input type="checkbox"/> | | <input type="checkbox"/> car magazine | | | |
| <input type="checkbox"/> | | <input type="checkbox"/> automobilism | | | |
| <input type="checkbox"/> | <input type="checkbox"/> automobil | <input checked="" type="checkbox"/> motorcar | <input type="checkbox"/> 摩托车 | <input type="checkbox"/> 摩托车 | |
| <input type="checkbox"/> | | <input type="checkbox"/> automobiles | | | |
| <input type="checkbox"/> | | <input type="checkbox"/> motorisation | | | |
| <input type="checkbox"/> | <input type="checkbox"/> automobil | <input type="checkbox"/> motor car | <input type="checkbox"/> 摩托车 | <input type="checkbox"/> 摩托车 | |

Synonym Related Words

Cancel Confirm

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



Quick Search Advanced Search Semantic Search Number Search Search History

Settings
Reset

TAC

car auto car 汽车 汽車 車 motorcar 摩托车 摩托車 automotive auton

OR

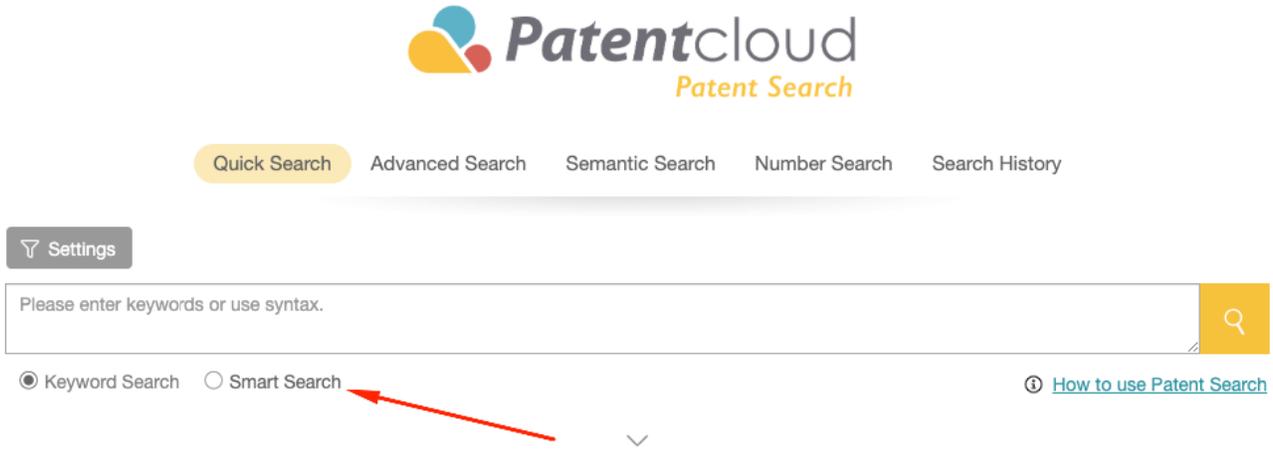
Count

Apply

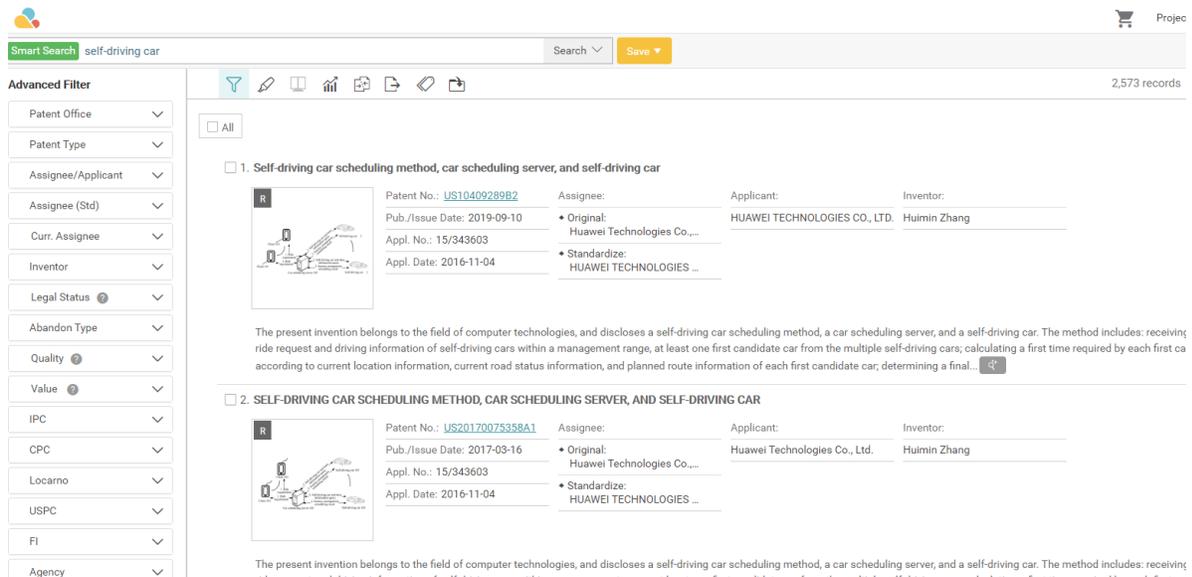
Smart Search

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.



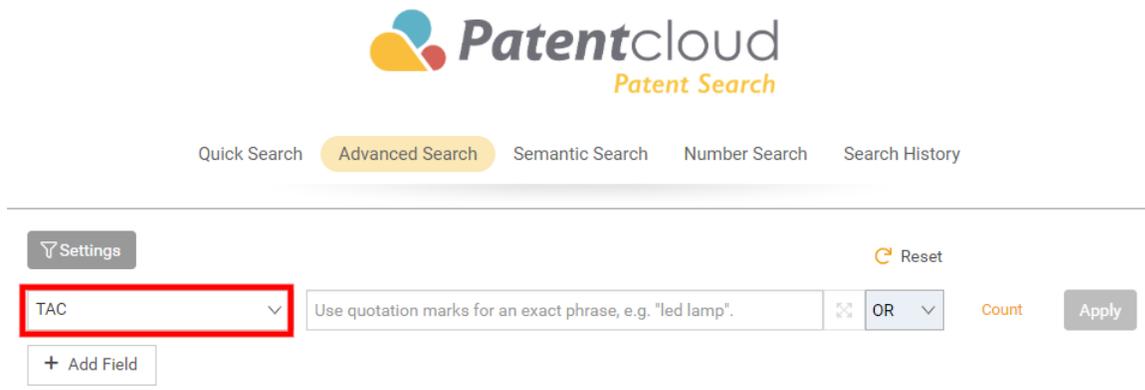
Classification Query

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.

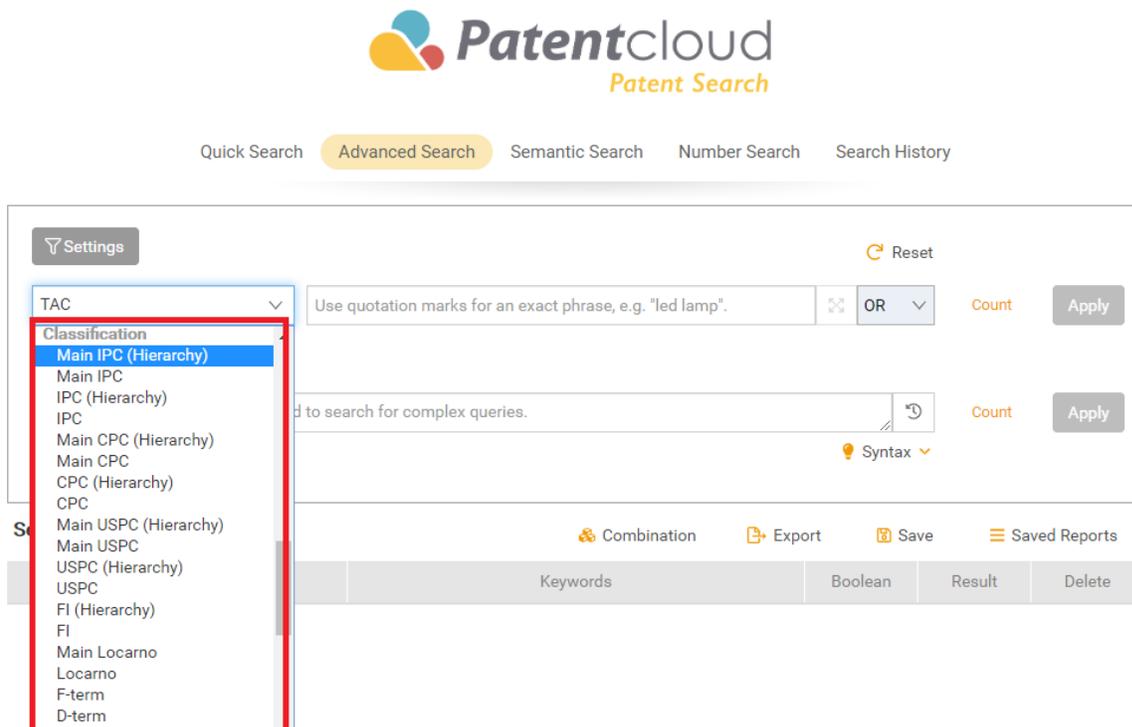
Currently Classification Search is available in both [Advanced Search](#) (for Advanced and Premium subscriptions only) and [Quick Search](#) features:

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



Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings
Reset

Main IPC (Hierarchy) ▾

G01N33/487

C OR ▾

16,003

Apply

+ Add Field

You can use syntax here if you need to search for complex queries.

Count

Apply

Syntax ▾

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”.

Classification Query
✕

Search Terms:

vehicle
car

Exclude:

English Input

Clear All

Search

IPC

A B C D E F G H

- B60 VEHICLES IN GENERAL
- B60P VEHICLES ADAPTED FOR LOAD TRANSPORTATION OR TO TRANSPORT, TO CARRY, OR TO COMPRISE SPECIAL LOADS OR OBJECTS
 - B60P 1/00 Vehicles predominantly for transporting loads and modified to facilitate loading, consolidating the load, or unloading
 - B60P 3/00 Vehicles adapted to transport, to carry or to comprise special loads or objects
 - B60P 3/06 •• for carrying vehicles
 - B60P 3/07 ••• for carrying road vehicles
 - B60P 3/08 •••• Multilevel-deck construction carrying vehicles
 - B60P 3/32 •• comprising living accommodation for people, e.g. caravans, camping, or like vehicles
 - B60P 3/36 ••• Auxiliary arrangements; Arrangements of living accommodation; Details
 - B60P 3/363 •••• with vehicle-carrying means
 - B60P 5/00 Arrangements of weighing machines on vehicles
 - B60P 7/00 Securing or covering of load on vehicles
 - B60P 9/00 Other vehicles predominantly for carrying loads
 - B60R VEHICLES, VEHICLE FITTINGS, OR VEHICLE PARTS, NOT OTHERWISE PROVIDED FOR
 - B60R 9/00 Supplementary fittings on vehicle exterior for carrying loads, e.g. luggage, sports gear or the like
 - B60R 9/04 • Carriers associated with vehicle roof
 - B60R 9/052 ••• Carriers comprising elongate members

Selected Classifications:

Clear All

Convert to Query

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

Patentcloud
Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings Reset

Main IPC (Hierarchy) OR

+ Add Field

You can use syntax here if you need to search for complex queries.

Syntax

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

Patentcloud
Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings

Please enter keywords or use syntax.

Search History

| | | | | |
|-----|------------------|----------------------------------|----------------------------------|--------------------------------------|
| AND | IPC (Hierarchy) | G06F019/00, B25J19/*, G06F* | <input type="button" value="G"/> | <input type="button" value="Close"/> |
| AND | CPC (Hierarchy) | H05K001/0306, H01L 3/*, G06F* | <input type="button" value="G"/> | <input type="button" value="Close"/> |
| AND | USPC (Hierarchy) | 370/329, 70/264 | <input type="button" value="G"/> | <input type="button" value="Close"/> |
| AND | FI (Hierarchy) | C03C27/06, 101C, H05B37/*, H01L* | <input type="button" value="G"/> | <input type="button" value="Close"/> |
| AND | IPC | G06F019/00, B25J19/*, G06F* | <input type="button" value="G"/> | <input type="button" value="Close"/> |

+ Add Field

Corporate Affiliation Query

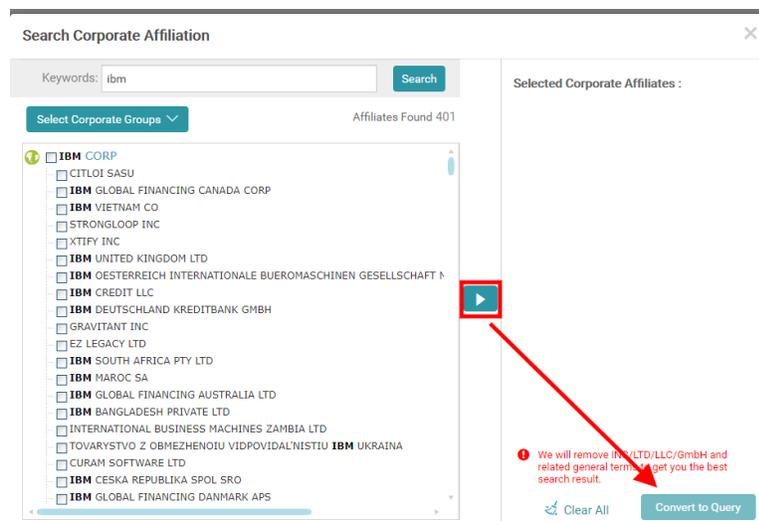
Sometimes companies may have variations in their names, subsidiaries or affiliates, depending on the business strategies or countries in which they are located. In order to perform a comprehensive patent

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:

- 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 



- 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. 



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

Settings Reset

Assignee Count

You can use syntax here if you need to search for complex queries. Count

Syntax

Search Report

| 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.

✕

| | | |
|---------------------|-----------------|----------------|
| TTL/ Title | ABST/ Abstract | ACLM/ Claims |
| SPEC/ Specification | PN/ Patent No. | APN/ Appl. No. |
| AN/ Assignee | IN/ Inventor | LREP/ Agency |
| PD/ Pub. Date | ISD/ Issue Date | ICL/ IPC |

*
?
"
()
and
or
not
Syntax List

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

| | | |
|-----|--------------------------------|--|
| "" | SPEC/"artificial" | <p>The "" syntax operator will search for the exact words/characters enclosed by the quotation marks.</p> <p>In the following example, SPEC/"artificial" will search for the exact word "artificial."</p> <p>Note: When using NEAR, do not use quotation marks (" ") in your query.</p> |
| () | SPEC/(art OR paint) AND canvas | <p>The () syntax operator denotes the order of precedence when performing a search. Operations within the parentheses will be operated on first.</p> |
| AND | SPEC/(art AND paint) | <p>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.</p> |
| OR | SPEC/(art OR paint) | <p>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.</p> |
| NOT | SPEC/(art AND NOT paint) | <p>The NOT syntax operator will not search for the keyword after the NOT syntax operator.</p> <p>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.</p> |

| | | |
|------|--|--|
| WITH | AAN/(GOOGLE) WITH AAR/(EYEFLUEN CE) | <p>The WITH operator will search for data fields in a single transaction record.</p> <p>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.</p> <p>Take US8885877B2 as an example:</p> <p>Q1: AAN/(google) AND AAR/(EYE-COM) AND pn/US8885877B2 → 1 result: wrong result for non-direct transfer</p> <p>Q2: AAN/(google) WITH AAR/(EYE-COM) AND pn/US8885877B2 → 0 result: correct result for non-direct transfer</p> <p>Q3: AAN/(google) WITH AAR/(EYEFLUENCE) AND pn/US8885877B2 → 1 result: correct result for direct transfer</p> <p>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).</p> <p>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.</p> |
| | <p>AAN/(GOOGLE) WITH DUR/2017*</p> <p>AAN/(GOOGLE) WITH AAR/(EYEFLUEN CE) WITH DUR/2017*</p> | <p>The DUR syntax keyword will search for transaction records occurred during a specific time period.</p> <p>Query Example:</p> <p>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</p> <p>Q5: AAN/(google) WITH DUR/2013* AND pn/US8885877B2 → 0 result: correct result</p> <p>Q6: AAN/(google) WITH DUR/2017* AND pn/US8885877B2 → 1 result: correct result</p> |

| | | |
|-------------|--------------------|---|
| " " (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)) | <p>1. The "?" denotes the range of words within which to search for the keyword pairs. Range is unlimited.</p> <p>2. The maximum number of keyword pairs to search for is 300.</p> <p>3. The NEAR operator must be used together with a syntax keyword, as seen in the example.</p> <p>4. Using two or more consecutive NEAR operators is NOT allowed. For example: TTL/((REFERENCE SIGNAL) NEAR1 device NEAR1 execution) is not allowed.</p> <p>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.</p> <p>6. While using near operator in search query, quotation("") and asterisk(*) are not supported.</p> <p>Note: When using NEAR, do not use quotation marks (" ") in your query.</p> |
|------|---------|--|---|

| 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) | <p>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.</p> <p>More specifically, US20160136639A1 has an IPC of G01N33/49 as opposed to G01N33/487, and it should not be included as a result of ICLH/(G01N33/487). However, the subgroup of G01N33/49 is under G01N33/487, so US20160136639A1 will be included in the results of ICLH/(G01N33/487).</p> <p>Note: An asterisk "*" is not necessary when the hierarchy syntax is defined.</p> |
| 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->* | <p>Our model for Quality takes into consideration (based on publication/issue information before it is published) :</p> <ul style="list-style-type: none"> - 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. <p>Each ranking is based on a score calculated using our model:</p> <p>(5) AAA : Score is in the top 3%</p> <p>(4) AA : 3% - 10%</p> <p>(3) A : 10% - 25%</p> <p>(2) B : 25% - 50%</p> <p>(1) C : 50% - 75%</p> <p>(0) D : Below 75%</p> <p>E.g.: The value of 3 represents "A." Therefore, 3->* represents values above "A."</p> |

| | | | |
|--------------------|---------------|----------------|---|
| Patent Value | VRANK | VRANK/3->* | <p>Our model for Value takes into consideration (based on publication/issue information before it is published):</p> <ul style="list-style-type: none"> - 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. <p>Each ranking is based on a score calculated using our model:</p> <p>(5) AAA : Score is in the top 3%</p> <p>(4) AA : 3% - 10%</p> <p>(3) A : 10% - 25%</p> <p>(2) B : 25% - 50%</p> <p>(1) C : 50% - 75%</p> <p>(0) D : Below 75%</p> <p>E..g.: The value of 3 represents "A." Therefore, 3->* represents values above "A."</p> |
| Status Data | | | |
| Data Field | Syntax | Example | Notes |

| | | | |
|------------------|------|------------|--|
| Legal Status | LLS | LLS/3 | <p>Legal Status is selected from :</p> <p>(1) Pending: Patents application yet to be granted.</p> <p>(2) Examination.</p> <p>(3) Active - Granted.</p> <p>(4) Abandoned: Patents abandoned, withdrawn, or not paid for by applicant or assignee.</p> <p>(5) Expired: Patents expired because the patent term is due.</p> <p>(6) Revoked ab initio: Patents invalidated after grant.</p> <p>(7) PGPub - Granted: Application that has been issued.</p> <p>(8) Reissued.</p> <p>E.g.: The value of 3 represents "Active - Granted".</p> |
| (Est.) Exp. Date | ESED | ESED/2025* | <p>The estimated expiration date is based on the patent office, patent type, and application/issue date, and is only available for an active patent.</p> <p>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.</p> <p>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.</p> <p>We don't calculate the estimated exp. the date for SPC (Supplementary protection certificate).</p> |
| 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) Lapsed (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 number 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) | <ol style="list-style-type: none"> 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.

Patentcloud
Patent Search

Quick Search Advanced Search Semantic Search Number Search **Search History**

| Code | Type | Query | Details | Result | Time Created | Operation |
|------|-----------------|---|-------------------|--------|------------------|---|
| R100 | Semantic Search | LED light flashlight for dog collar night walking | i | 300 | 2020-03-13 16:33 | ↗ 🗑 |
| R99 | Keyword Search | PN/(US7777777 OR US7777778 OR US8888888 OR US7654321) | i | 4 | 2020-03-13 16:33 | ↗ 🗑 ➕ |
| R98 | Number Search | DownLoad the Query List | i | 4 | 2020-03-13 16:33 | 🗑 |
| R97 | Advanced Search | See all Record | i | 129 | 2020-03-13 16:32 | ↗ 🗑 |
| R96 | Keyword Search | TAC("smoke detector") | i | 10,099 | 2020-03-13 16:05 | ↗ 🗑 ➕ |

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. **R100**) 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.

Details ✕

Patent Office: US, CN, EP, WO, JP, KR, TW, IN, EM, Other(All)

Patent Type: Utility Patent, Utility Model, Design, Plant, Others

Legal Status: Publication, Issue

Stem: Yes

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.

The screenshot shows the Patent Search interface for a query 'LED light'. The 'Save' dropdown menu is open, highlighting the 'Monitor Query' option. The search results page displays a list of search results, with the first result selected. The details for this result are shown below the list.

Advanced Filter

- Patent Office
- Patent Type
- Assignee/Applicant
- Assignee (Std)
- Curr. Assignee
- Inventor
- Legal Status
- Abandon Type
- Quality
- Value

Search Results

1. **LED LIGHTING COLUMN AND LED LAMP USING SAME**

Patent No.: [IN2014DELNP0008229A](#) Assignee: Applicant:
 Pub./Issue Date: 2015-05-15 Original: ZHEJIANG LEDISON OPTOELEC
 Appl. No.: 8229/DELNP/2014 ZHEJIANG LEDISON OPT... Inventor:
 Appl. Date: 2014-10-01 Standardize: GE Shichao
 GE Xiaoqin
 LIU Huabin

An LED lighting column (1) and an LED lamp using same. The LED lighting column (1) comprises a high therm of LED chips (11) provided on the outer surface of the high thermal conductivity tube (10). The LED lamp con vacuum seal and filled with thermally conductive protecting gas an LED driver (4) and an electric connecto bulb shell (3). The electric lead wires (13) of the LED lighting column (1) are connected with an external powe connector (6). Th...

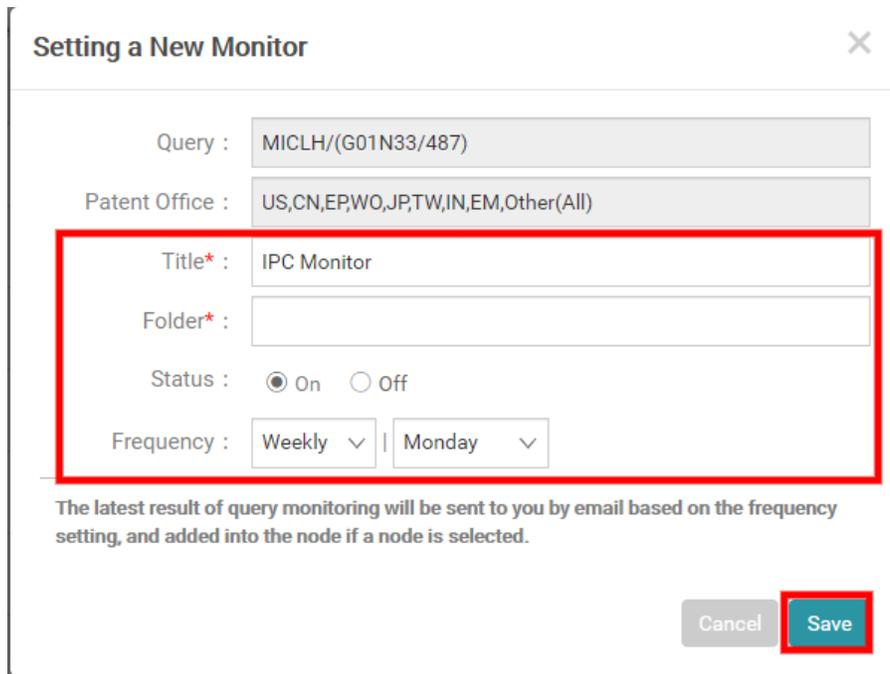
3. If you have previously done a search query and want to monitor the same, you can access this in **Search History**.



Quick Search Advanced Search Semantic Search Number Search **Search History**

| Recent | | Saved | | | | | | | | |
|--------|-----------------|--|---------|-----------|------------------|------------------------------------|-----------|--|--|--|
| Code | Type | Query | Details | Result | Time Created | Patent Office | Operation | | | |
| R14 | Keyword Search | LED light | | 2,207,411 | 2019-09-27 16:48 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | | | | |
| R13 | Keyword Search | car | | 1,703,849 | 2019-09-27 16:44 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | | | | |
| R12 | Keyword Search | PN/(US7777777) | | 1 | 2019-09-27 15:28 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | | | | |
| R11 | Semantic Search | led light dog collar for dog night walking | | 300 | 2019-09-27 15:27 | US,CN,EP,WO,JP,PKR | | | | |
| R10 | Keyword Search | MICLH/(G01N33/487) | | 16,005 | 2019-09-27 14:42 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | | | | |

- 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.



Setting a New Monitor

Query : MICLH/(G01N33/487)

Patent Office : US,CN,EP,WO,JP,TW,IN,EM,Other(All)

Title* : IPC Monitor

Folder* :

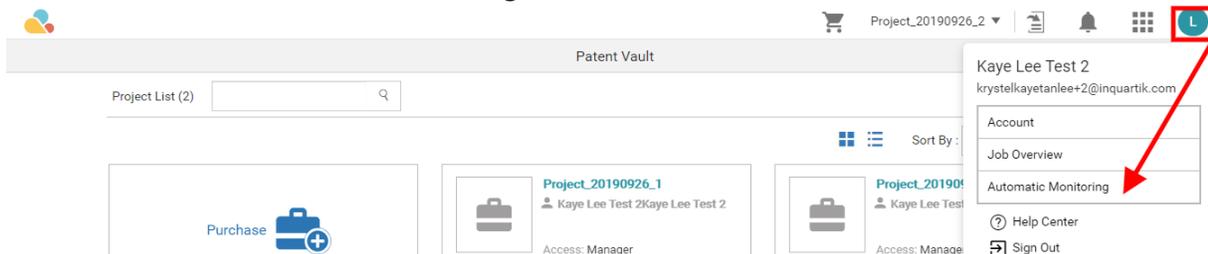
Status : On Off

Frequency : Weekly | Monday

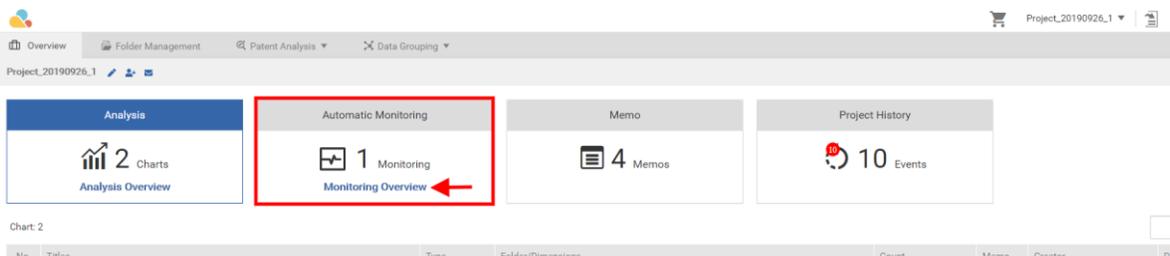
The latest result of query monitoring will be sent to you by email based on the frequency setting, and added into the node if a node is selected.

Cancel Save

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



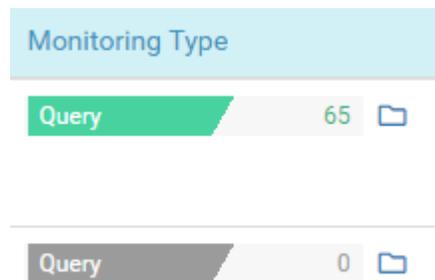
Second way is to go to your project Overview and click on Monitoring Overview under Automatic Monitoring.



6. In the **Automatic 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.

| | Titles | Monitoring Type | Last Updated Date ↓ | Frequency | Created By | Status | Operation |
|---|---|--|---------------------|-----------|------------|-------------------------------------|---|
| Q | Search Monitor Keyword Search | Query 65  | 2019-02-12 | Monthly | | <input checked="" type="checkbox"/> |   |
| Q | Massive Monitor Keyword Search | Query 0  | 2019-02-01 | Weekly | | <input checked="" type="checkbox"/> | |
| Q | NEAR Monitor Keyword Search | Query 0  | 2019-02-12 | Weekly | | <input checked="" type="checkbox"/> | |

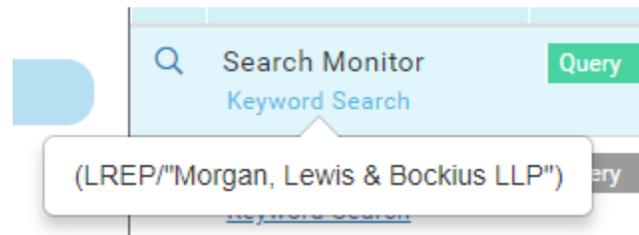
If you add the patents from the search results of the monitoring query to Project, simply click on the folder icon (which is located right next to the update status bar) to access the folder containing the search results.



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

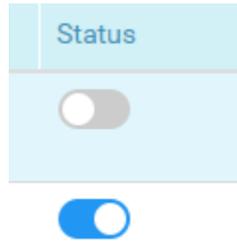
- Quick Search link

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.



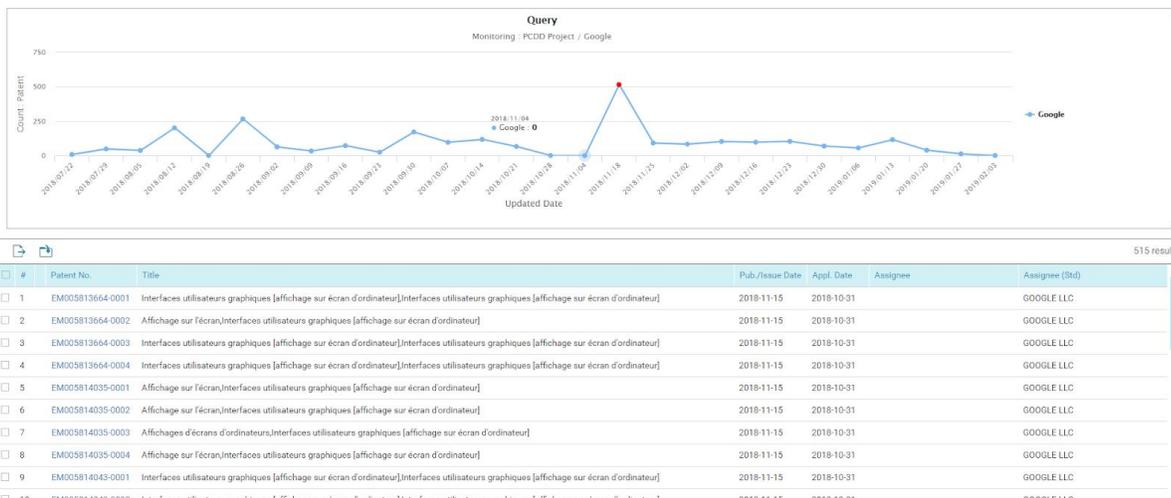
- Status Toggle

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.

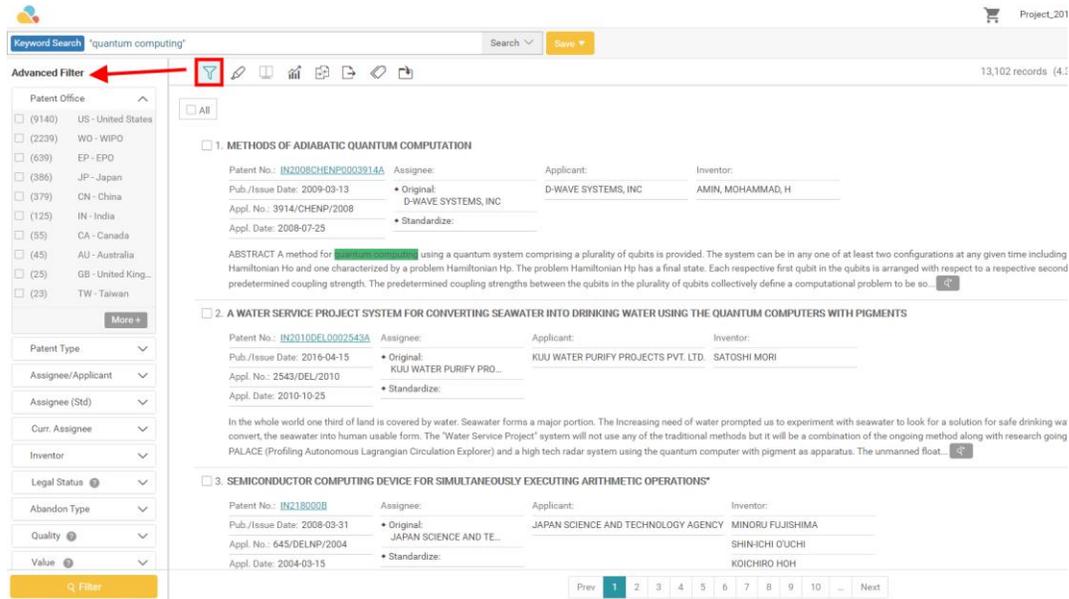


| # | Patent No. | Title | Pub./Issue Date | Appl. Date | Assignee | Assignee (Std) |
|----|------------------|--|-----------------|------------|------------|----------------|
| 1 | EM005813664-0001 | Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 2 | EM005813664-0002 | Affichage sur l'écran; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 3 | EM005813664-0003 | Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 4 | EM005813664-0004 | Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 5 | EM005814035-0001 | Affichage sur l'écran; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 6 | EM005814035-0002 | Affichage sur l'écran; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 7 | EM005814035-0003 | Affichages d'écrans d'ordinateurs; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 8 | EM005814035-0004 | Affichage sur l'écran; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 9 | EM005814043-0001 | Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |
| 10 | EM005814043-0002 | Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]; Interfaces utilisateurs graphiques [affichage sur écran d'ordinateur] | 2018-11-15 | 2018-10-31 | GOOGLE LLC | GOOGLE LLC |

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.



Keyword Search "quantum computing" Search Save

Advanced Filter 13,102 records (4:1)

Patent Office

- (9140) US - United States
- (2239) WO - WIPO
- (639) EP - EPO
- (386) JP - Japan
- (379) CN - China
- (125) IN - India
- (55) CA - Canada
- (45) AU - Australia
- (23) GB - United King...
- (23) TW - Taiwan

Patent Type

Assignee/Applicant

Assignee (Std)

Curr. Assignee

Inventor

Legal Status

Abandon Type

Quality

Value

Filter

1. METHODS OF ADIABATIC QUANTUM COMPUTATION

Patent No.: IN2008CHENP00391AA Assignee: Applicant: Inventor:
 Pub./Issue Date: 2009-03-13 • Original: D-WAVE SYSTEMS, INC D-WAVE SYSTEMS, INC AMIN, MOHAMMAD, H
 Appl. No.: 3914/CHENP/2008 • Standardize:
 Appl. Date: 2008-07-25

ABSTRACT A method for **quantum computing** using a quantum system comprising a plurality of qubits is provided. The system can be in any one of at least two configurations at any given time including Hamiltonian Ho and one characterized by a problem Hamiltonian Hp. The problem Hamiltonian Hp has a final state. Each respective first qubit in the qubits is arranged with respect to a respective second predetermined coupling strength. The predetermined coupling strengths between the qubits in the plurality of qubits collectively define a computational problem to be so.

2. A WATER SERVICE PROJECT SYSTEM FOR CONVERTING SEAWATER INTO DRINKING WATER USING THE QUANTUM COMPUTERS WITH PIGMENTS

Patent No.: IN2010DEL0002543A Assignee: Applicant: Inventor:
 Pub./Issue Date: 2016-04-15 • Original: KUJ WATER PURIFY PRO... SATOSHI MORI
 Appl. No.: 2543/DEL/2010 • Standardize:
 Appl. Date: 2010-10-25

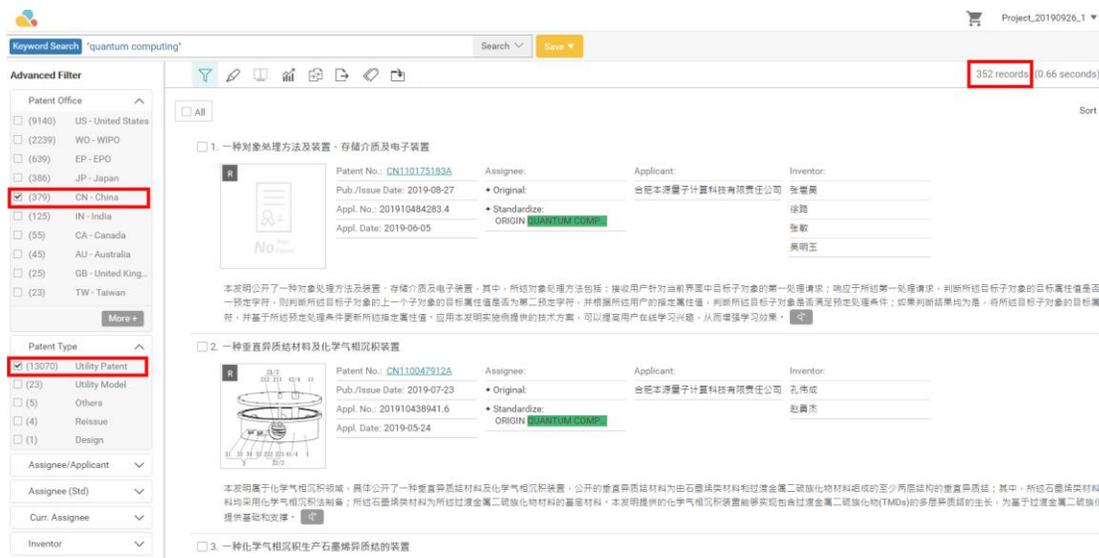
In the whole world one third of land is covered by water. Seawater forms a major portion. The Increasing need of water prompted us to experiment with seawater for a solution for safe drinking wa convert the seawater into human usable form. The "Water Service Project" system will not use any of the traditional methods but it will be a combination of the ongoing method along with research going PALACE (Profiling Autonomous Lagrangian Circulation Explorer) and a high tech radar system using the quantum computer with pigment as apparatus. The unmanned float.

3. SEMICONDUCTOR COMPUTING DEVICE FOR SIMULTANEOUSLY EXECUTING ARITHMETIC OPERATIONS*

Patent No.: IN218000B Assignee: Applicant: Inventor:
 Pub./Issue Date: 2008-03-31 • Original: JAPAN SCIENCE AND TE... MINORU FUJISHIMA
 Appl. No.: 645/DELNP/2004 • Standardize: SHINICHI OUCHI
 Appl. Date: 2004-03-15 KOICHIRO HOH

Prev 1 2 3 4 5 6 7 8 9 10 ... Next

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.



Keyword Search "quantum computing" Search Save

Advanced Filter 352 records (0.66 seconds)

Patent Office

- (9140) US - United States
- (2239) WO - WIPO
- (639) EP - EPO
- (386) JP - Japan
- (379) CN - China
- (125) IN - India
- (55) CA - Canada
- (45) AU - Australia
- (23) GB - United King...
- (23) TW - Taiwan

Patent Type

- (19070) Utility Patent
- (23) Utility Model
- (5) Others
- (4) Reissue
- (1) Design

Assignee/Applicant

Assignee (Std)

Curr. Assignee

Inventor

1. 一种对象处理方法及装置、存储介质及电子装置

Patent No.: CN110173183A Assignee: Applicant: Inventor:
 Pub./Issue Date: 2019-08-27 • Original: 合肥本源量子计算科技有限责任公司 张鲁勇
 Appl. No.: 201910484283.4 • Standardize: 徐路
 Appl. Date: 2019-06-05 ORIGIN 张歌
 姜明玉

本发明公开了一种对象处理方法及装置、存储介质及电子装置，其中，所述对象处理方法包括：接收用户针对当前界面中目标对象的第一处理请求；响应于所述第一处理请求，判断所述目标对象的目标属性值是否一预定义符，则判断所述目标对象的上一个子对象的目标属性值是否为第二预定义符，并根据所述用户的指定属性值，判断所述目标对象是否满足预定义处理条件；如果判断结果均为是，将所述目标对象的目标属性，并基于所述预定义处理条件更新所述属性值，应用本发明实施例提供的技术方案，可以提高用户在线学习兴趣，从而增强学习效果。

2. 一种垂直异质结材料及化学气相沉积装置

Patent No.: CN110047912A Assignee: Applicant: Inventor:
 Pub./Issue Date: 2019-07-23 • Original: 合肥本源量子计算科技有限责任公司 孔伟成
 Appl. No.: 201910438941.6 • Standardize: 赵勇杰
 Appl. Date: 2019-05-24 ORIGIN

本发明属于化学气相沉积领域，具体公开了一种垂直异质结材料及化学气相沉积装置，公开的首层异质结材料为石墨类材料和过渡金属二硫化物材料组成的至少两层结构的垂直异质结；其中，所述石墨类材料均采用化学气相沉积法制备；所述石墨类材料为所述过渡金属二硫化物材料的基础材料，本发明提供的化学气相沉积装置能够实现垂直过渡金属二硫化物(TMDs)的多层异质结的生长，为量子过渡金属二硫化物提供基础和支撑。

3. 一种化学气相沉积生产石墨异质结的装置

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 (Reassignment=RSGMT), Assignee RSGMT, Licensor, Licensee, Pledgor, and Pledgee. See all syntax codes [here](#).

Patentcloud Patent Search

Quick Search Advanced Search Semantic Search Number Search Search History

Settings

Please enter keywords or use syntax.

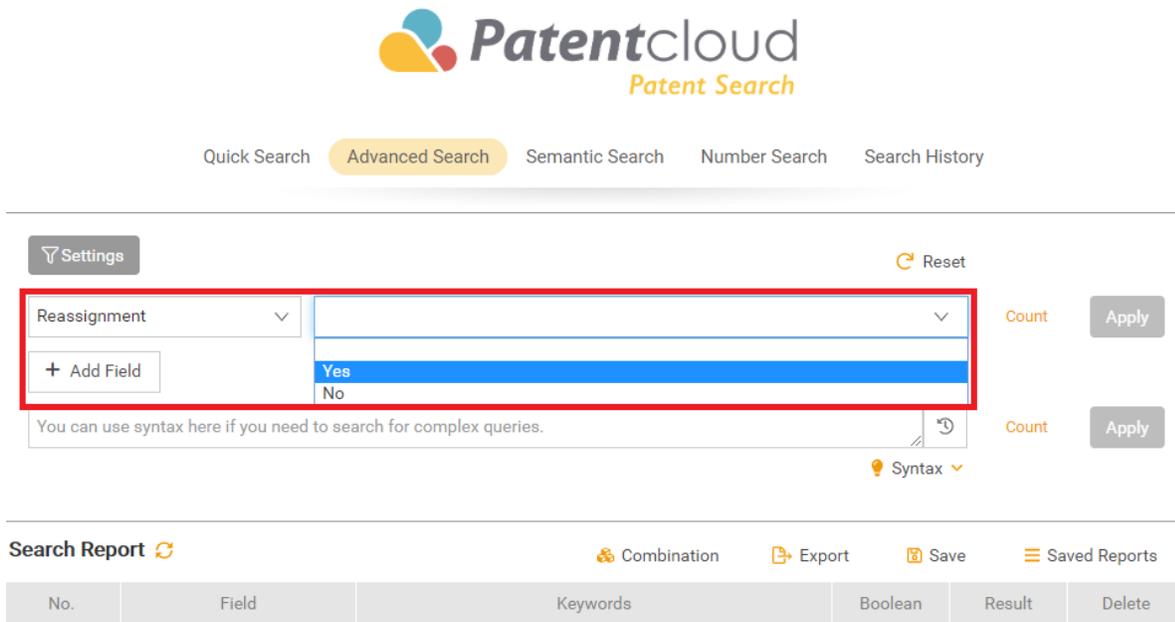
Search History Convert to Query Reset

| | | | |
|-----|------------------|--|--|
| AND | Reassignment | Yes | |
| AND | # of RSGMT | If "1" is entered,the patents with more than one Assignment would be search | |
| AND | Licensing | Yes | |
| AND | Pledge | No | |
| AND | Assignor (RSGMT) | To search for an exact phrase, use quotation marks (e.g. "CALLIDA G | |
| AND | Assignee (RSGMT) | To search for an exact phrase, use quotation marks (e.g. "CALLIDA G | |
| AND | Agent (RSGMT) | To search for an exact phrase, use quotation marks (e.g., "General Motors"). | |
| AND | Licensor | To search for an exact phrase, use quotation marks (e.g. "INFOTECH | |
| AND | Licensee | To search for an exact phrase, use quotation marks (e.g. "MICROSOF | |
| AND | Pledgor | To search for an exact phrase, use quotation marks (e.g. "NUVELO, IN | |
| AND | Pledgee | To search for an exact phrase, use quotation marks (e.g. "CALLIDA G | |

+ Add Field

Corporate Affiliation Search is available whenever applicable

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](#).



Patentcloud Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings Reset

Reassignment Count

+ Add Field

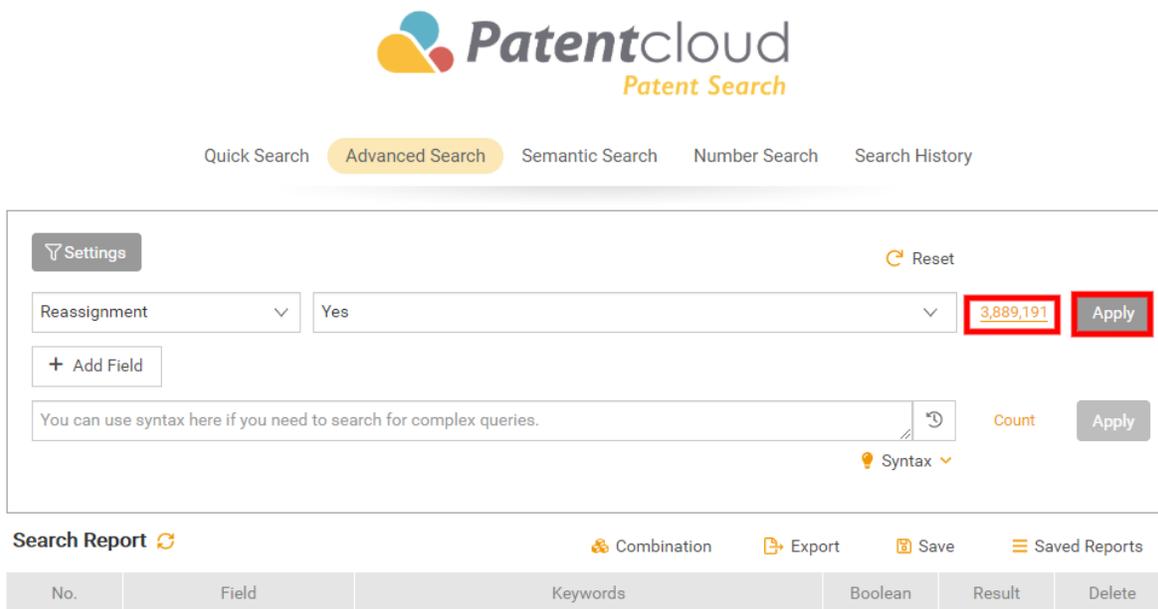
Yes
No

You can use syntax here if you need to search for complex queries. Syntax

Search Report Combination Export Save Saved Reports

| No. | Field | Keywords | Boolean | Result | Delete |
|-----|-------|----------|---------|--------|--------|
|-----|-------|----------|---------|--------|--------|

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



Patentcloud Patent Search

Quick Search **Advanced Search** Semantic Search Number Search Search History

Settings Reset

Reassignment 3,889,191

+ Add Field

You can use syntax here if you need to search for complex queries. Count

Syntax

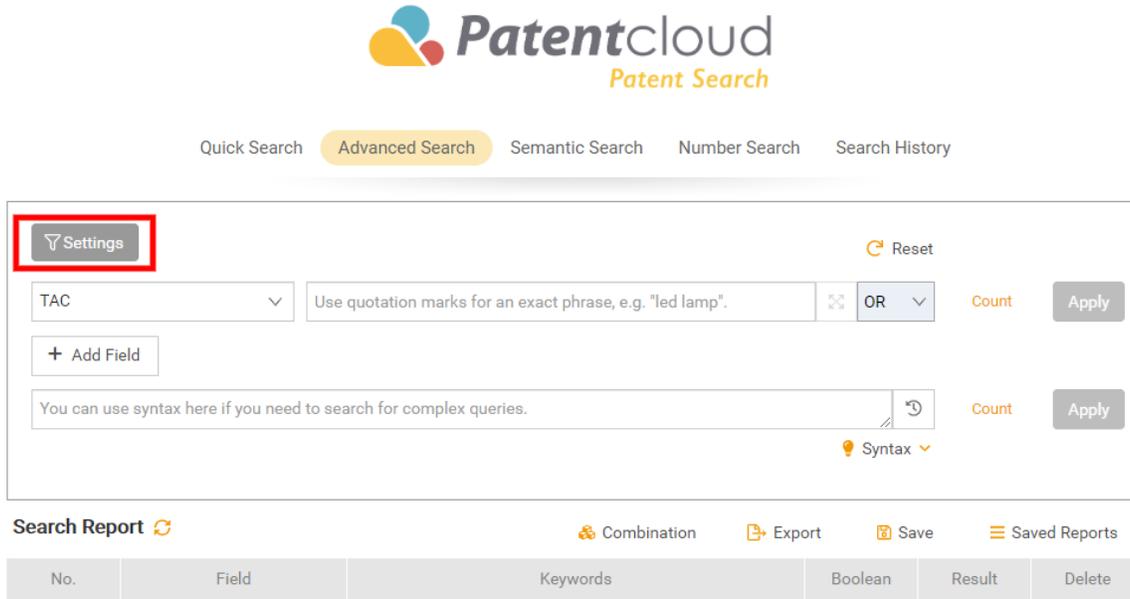
Search Report Combination Export Save Saved Reports

| No. | Field | Keywords | Boolean | Result | Delete |
|-----|-------|----------|---------|--------|--------|
|-----|-------|----------|---------|--------|--------|

Stemming

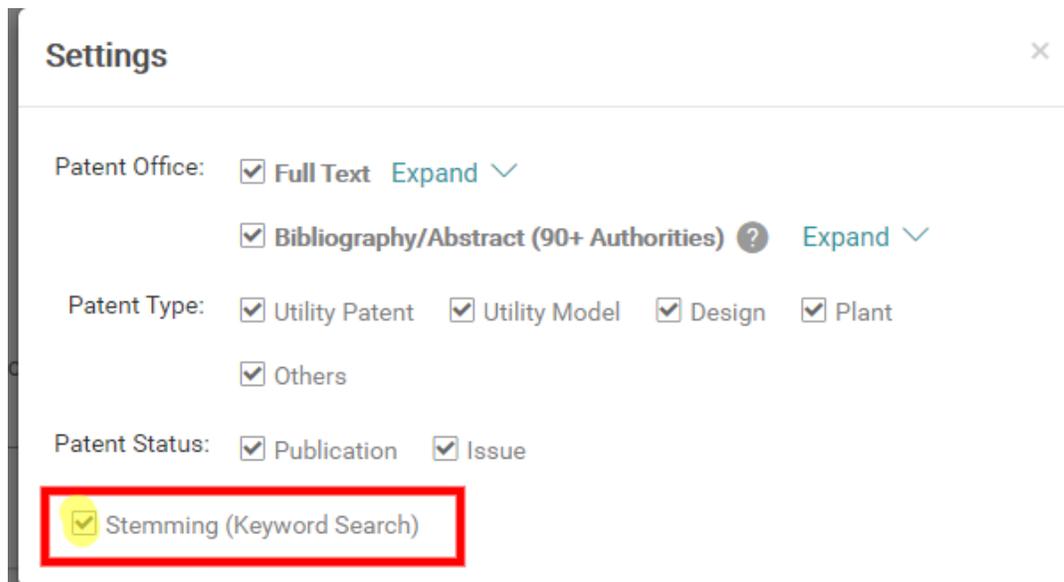
When stemming is enabled, the Patent Search results will include words that have the same root as your search term. This helps to expand your search. For example, with a search term of “looking”, you will get a stemming result set that includes “look”, “looking”, or “looked”, because they share the same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

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



The screenshot shows the Patentcloud Patent Search interface. At the top, there is a navigation bar with the following options: Quick Search, **Advanced Search** (highlighted), Semantic Search, Number Search, and Search History. Below the navigation bar, there is a search area with a **Settings** button highlighted in a red box. The search area also includes a **Reset** button, a dropdown menu for **TAC**, a text input field with the placeholder "Use quotation marks for an exact phrase, e.g. 'led lamp'.", a **OR** dropdown menu, and **Count** and **Apply** buttons. Below the search area, there is a **Search Report** section with a refresh icon and buttons for **Combination**, **Export**, **Save**, and **Saved Reports**. At the bottom, there is a table with columns: **No.**, **Field**, **Keywords**, **Boolean**, **Result**, and **Delete**.

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



The screenshot shows the **Settings** dialog box in the Patentcloud Patent Search interface. The dialog box has a title bar with the word **Settings** and a close button (X). The settings are organized into sections:

- Patent Office:** **Full Text** **Expand** **Bibliography/Abstract (90+ Authorities)** **Expand**
- Patent Type:** **Utility Patent** **Utility Model** **Design** **Plant** **Others**
- Patent Status:** **Publication** **Issue**

The **Stemming (Keyword Search)** option is highlighted in a red box, indicating it should be selected to enable stemming.

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](#)

[Sort Results](#)

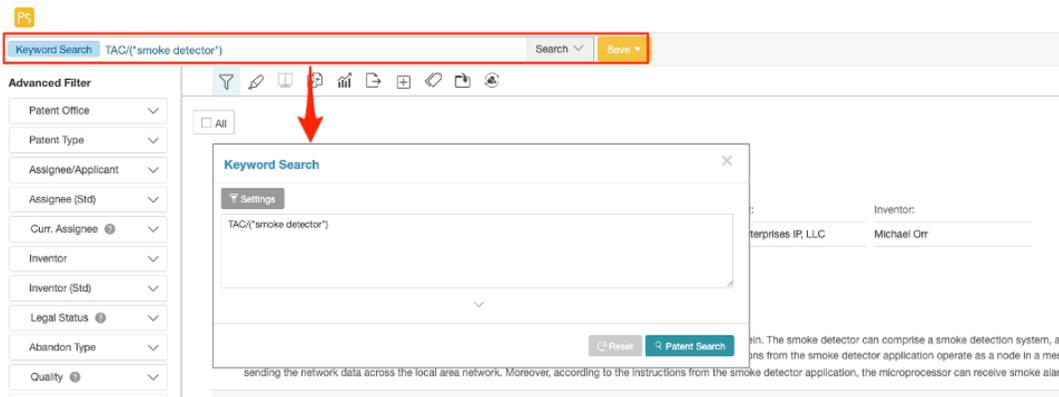
[Select/Deselect Results](#)

[Use Search Results Tools](#)

[Use Different View Modes](#)

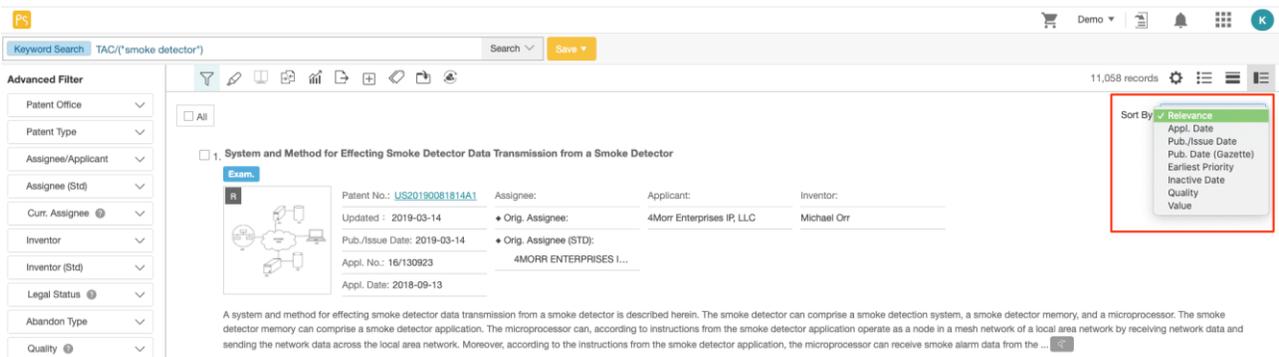
Edit Query

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.

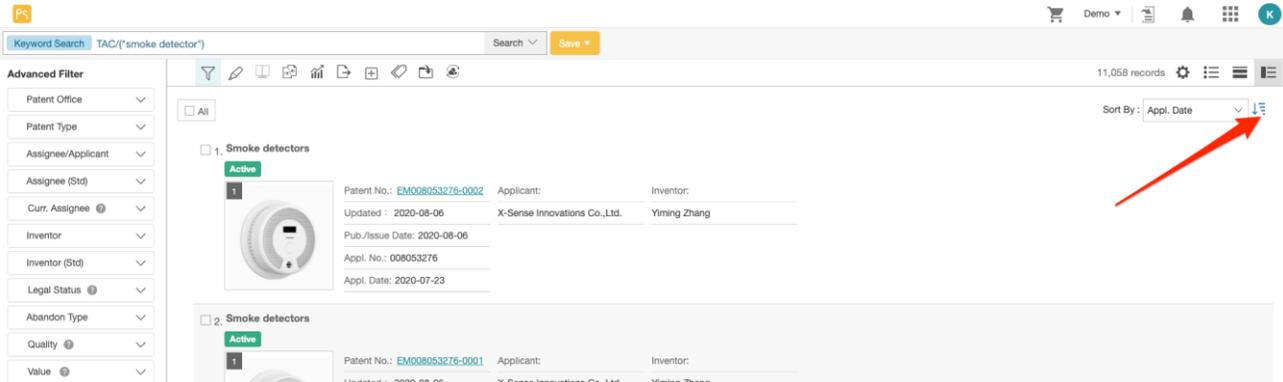


Sort Results

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.

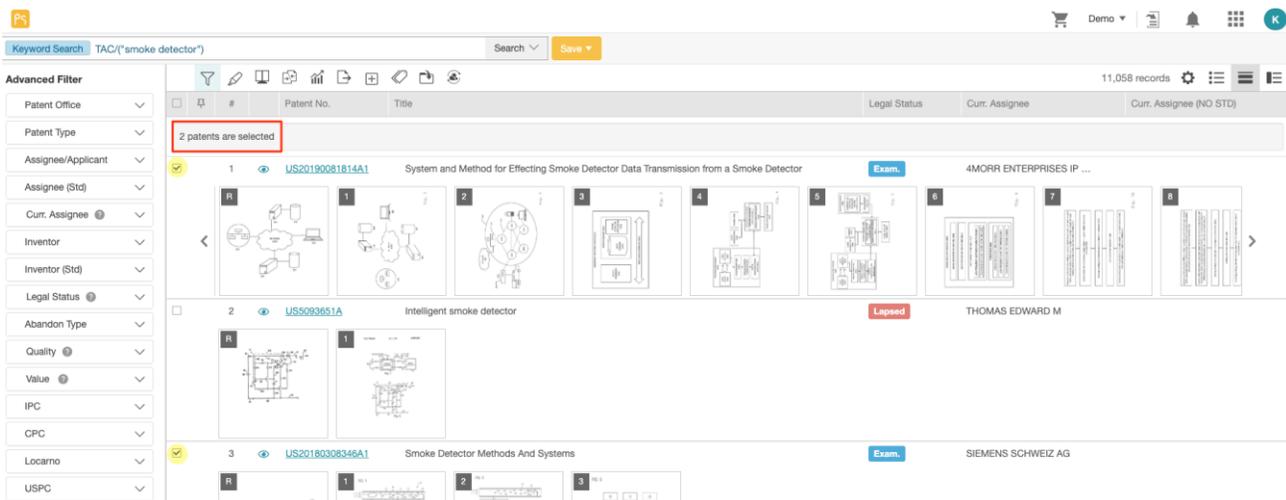


To change the Sort order (for items other than Relevance), a descending icon  will display by default beside the Sort By box. Click on this icon to change to ascending order.



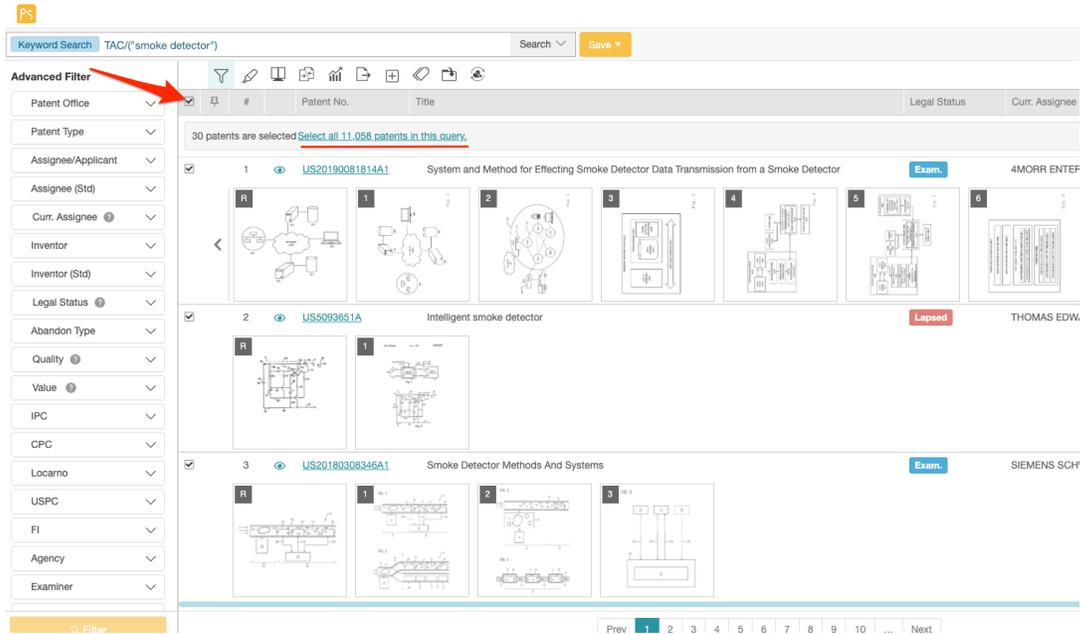
Select/Deselect Results

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.

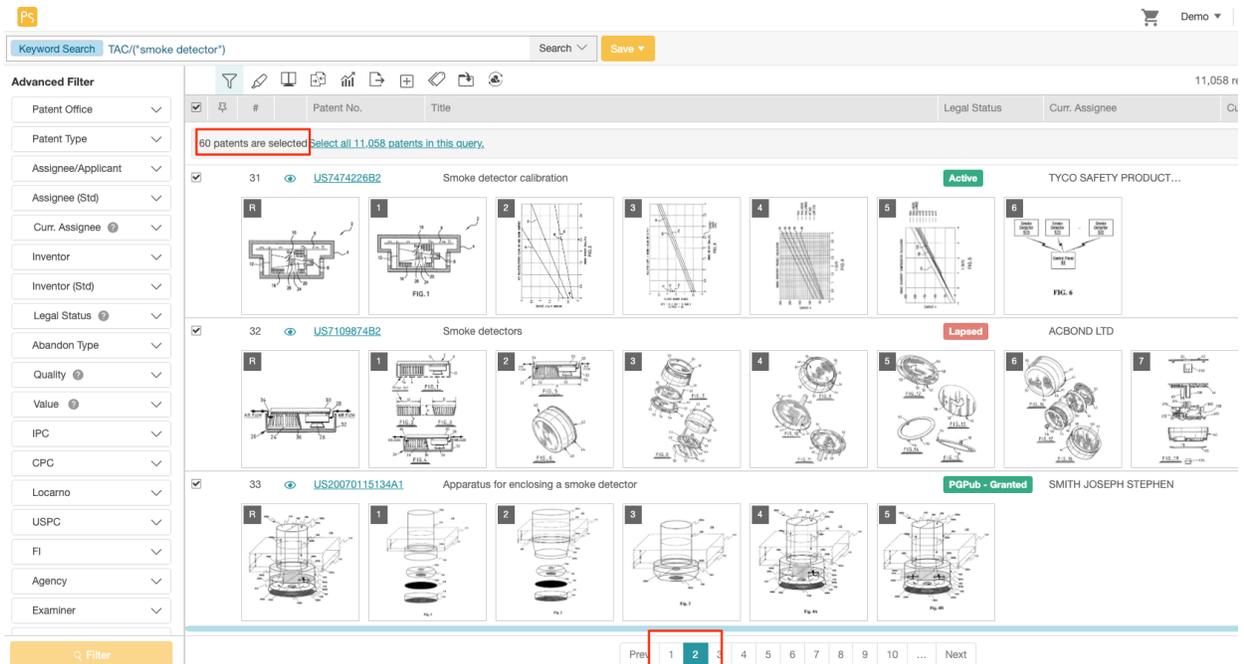


To adjust the number of results you can view on a single page, refer to the steps in [this article](#).

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.



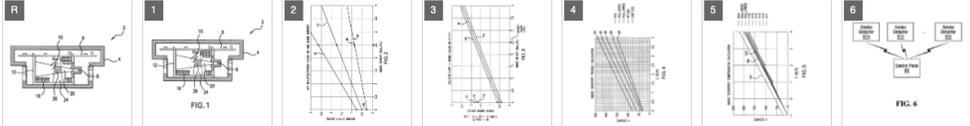
To deselect patents across multiple pages, first click on “Select all ## patents in this query”.

Ps 🛒

Keyword Search TAC/("smoke detector") Search Save

Advanced Filter

- Patent Office
- Patent Type
- Assignee/Applicant
- Assignee (Std)
- Curr. Assignee
- Inventor
- Inventor (Std)
- Legal Status
- Abandon Type

| <input checked="" type="checkbox"/> | # | Patent No. | Title | Legal Status | Curr. Assignee |
|--|----|-----------------------------|----------------------------|--------------|-----------------------|
| 60 patents are selected Select all 11,058 patents in this query. | | | | | |
| <input checked="" type="checkbox"/> | 31 | US7474226B2 | Smoke detector calibration | Active | TYCO SAFETY PRODUCT.. |
|  | | | | | |
| <input checked="" type="checkbox"/> | 32 | US7109874B2 | Smoke detectors | Lapsed | ACBOND LTD |
|  | | | | | |

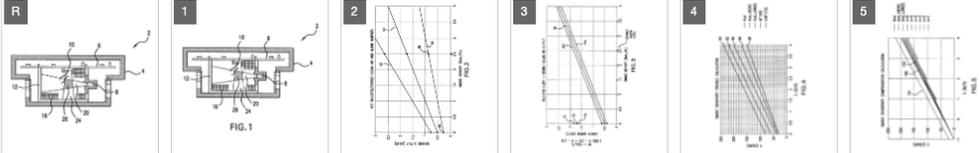
Then, tick on the topmost checkbox or click on Clear All Selection.

Ps

Keyword Search TAC/("smoke detector") Search Save

Advanced Filter

- Patent Office
- Patent Type
- Assignee/Applicant
- Assignee (Std)
- Curr. Assignee
- Inventor
- Inventor (Std)
- Legal Status
- Abandon Type

| <input checked="" type="checkbox"/> | # | Patent No. | Title | Legal Status | Curr. Assignee |
|--|----|-----------------------------|----------------------------|--------------|-----------------------|
| All 11,058 patents on this query are selected Clear All Selection | | | | | |
| <input checked="" type="checkbox"/> | 31 | US7474226B2 | Smoke detector calibration | Active | TYCO SAFETY PRODUCT.. |
|  | | | | | |
| <input checked="" type="checkbox"/> | 32 | US7109874B2 | Smoke detectors | Lapsed | ACBOND LTD |
|  | | | | | |

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.

PS

Keyword Search TAC/("smoke detector") Search Save

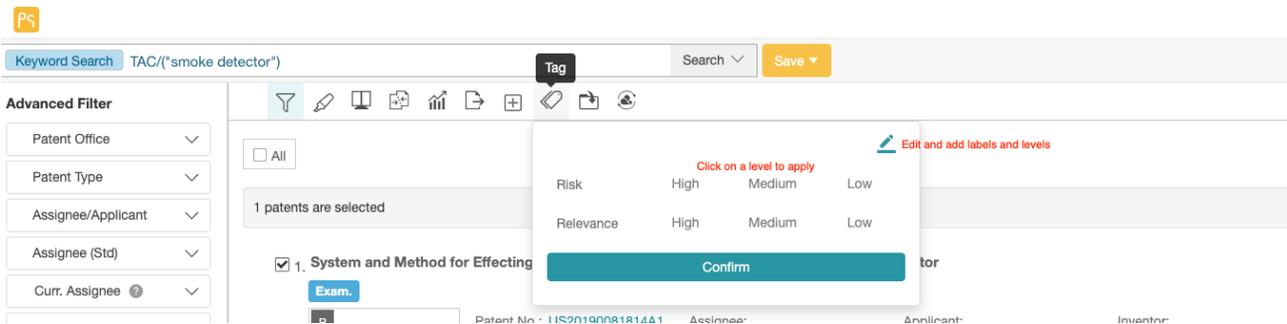
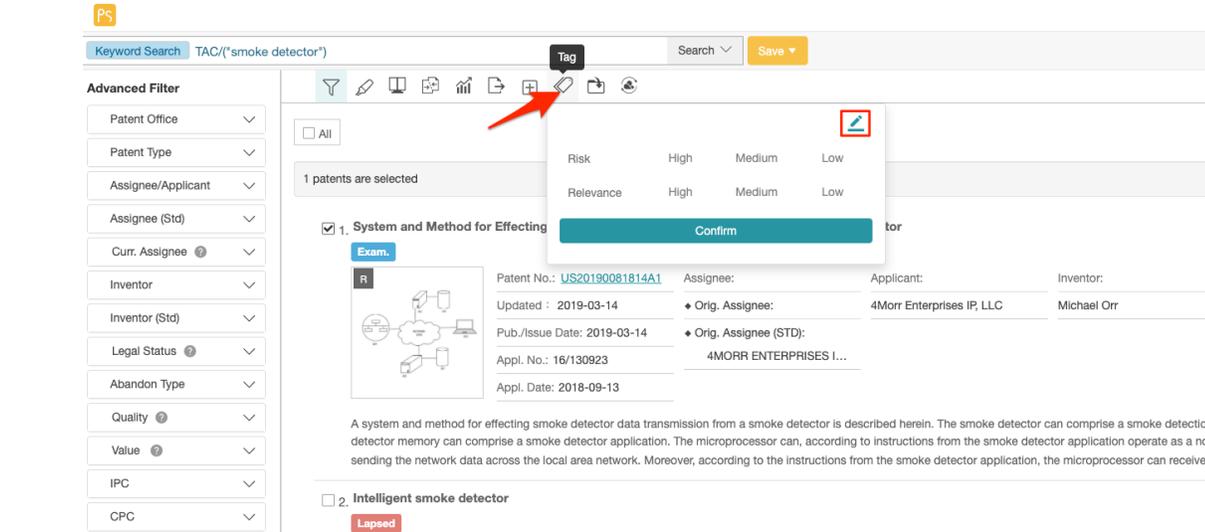
Advanced Filter

| Patent Office | Patent No. | Title | Tag | Legal Status | Appl. Date | Appl. No. | Pub./Iss |
|---------------|---------------------------------|--|---------------|--------------|------------|-----------|----------|
| 1 | US20190081814A1 | System and Method for Effecting Smo... | Cur... Fut... | Exam. | 2018-09-13 | 16/130923 | 2019-03 |
| 2 | US5093651A | Intelligent smoke detector | Cur... Fut... | Lapsed | 1990-10-11 | 07/595860 | 1992-03 |
| 3 | US20180308346A1 | Smoke Detector Methods And Systems | Cur... Fut... | Exam. | 2018-04-18 | 15/955969 | 2018-10 |

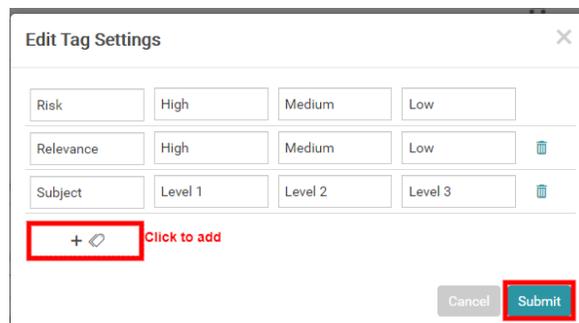
| | |
|---|---|
|  | Filters - to open the Advanced Filter panel |
|  | Highlighter - to highlight keywords on the search results page |
|  | Compare - to compare selected patents from the search results page |
|  | Statistical Chart - to generate basic (line, bar, column and pie) charts based on search results |
|  | Collapse - to collapse results by Family or by Application No. |
|  | Expand - to expand results to show all of its Simply Family members |
|  | Export¹ - 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.

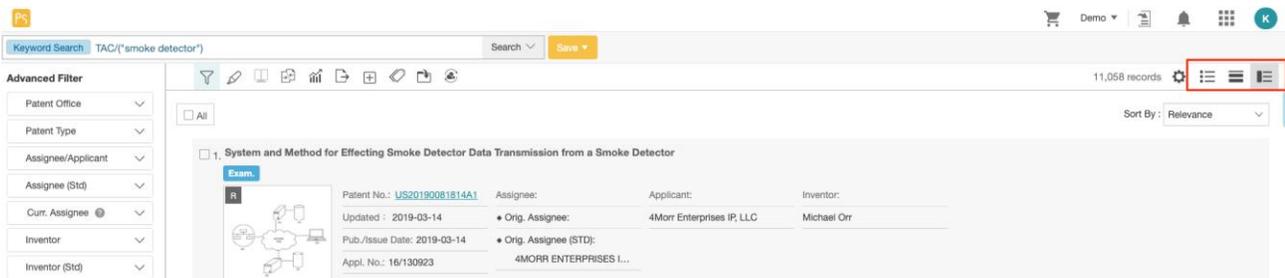


By clicking on the **Edit** button, you can customize your labels by editing the label dialog box. You can create a new label, give it a subject (used for comparison, which may include products, technology, patents, etc.), a label name, and a range.



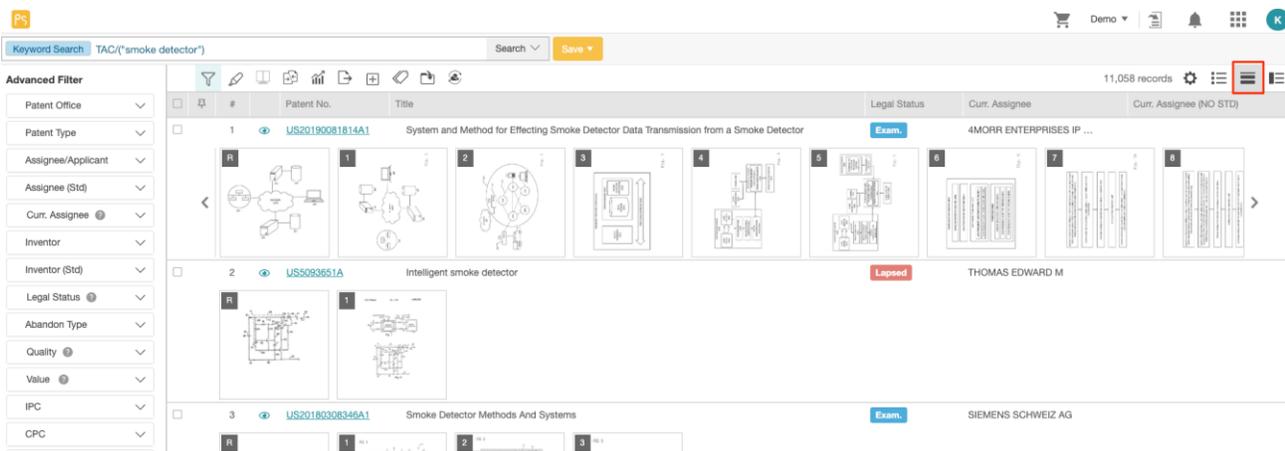
Use Different View Modes

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

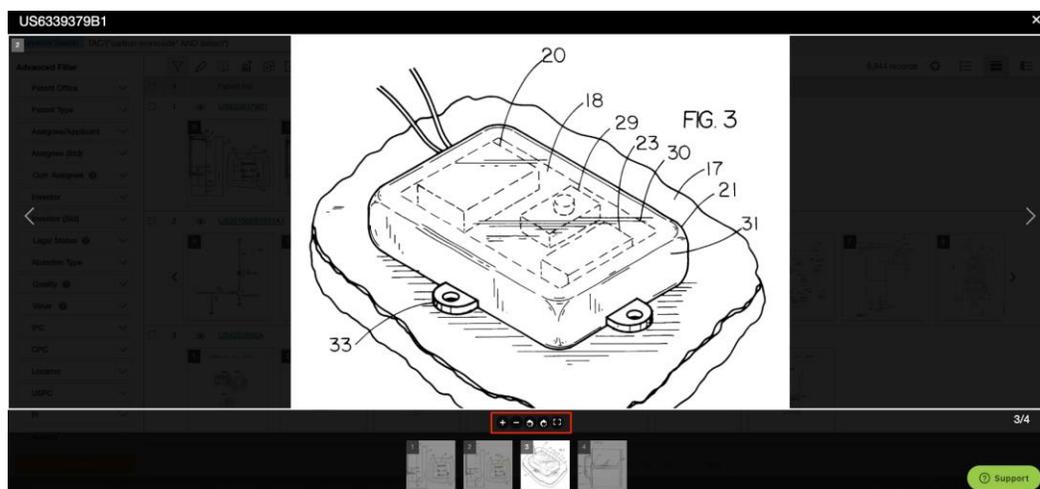


- Gallery Mode : View all of the patent figures right on the search results page

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](#).

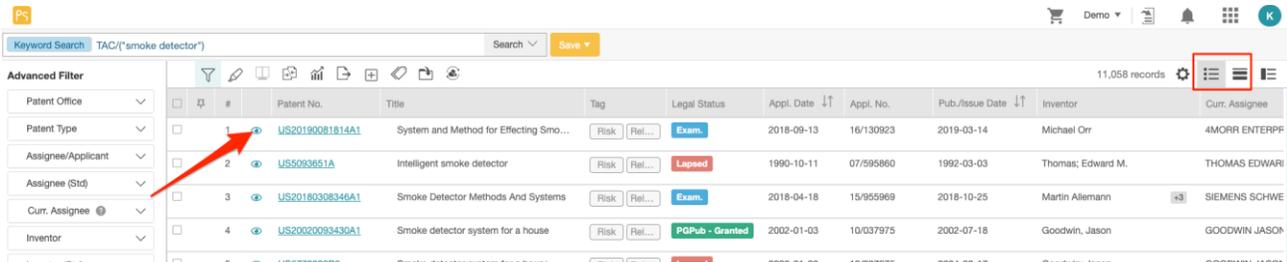
Select your **Sort By** preference in this view. It will apply to all other view modes.

- List Mode : View patents in a list format

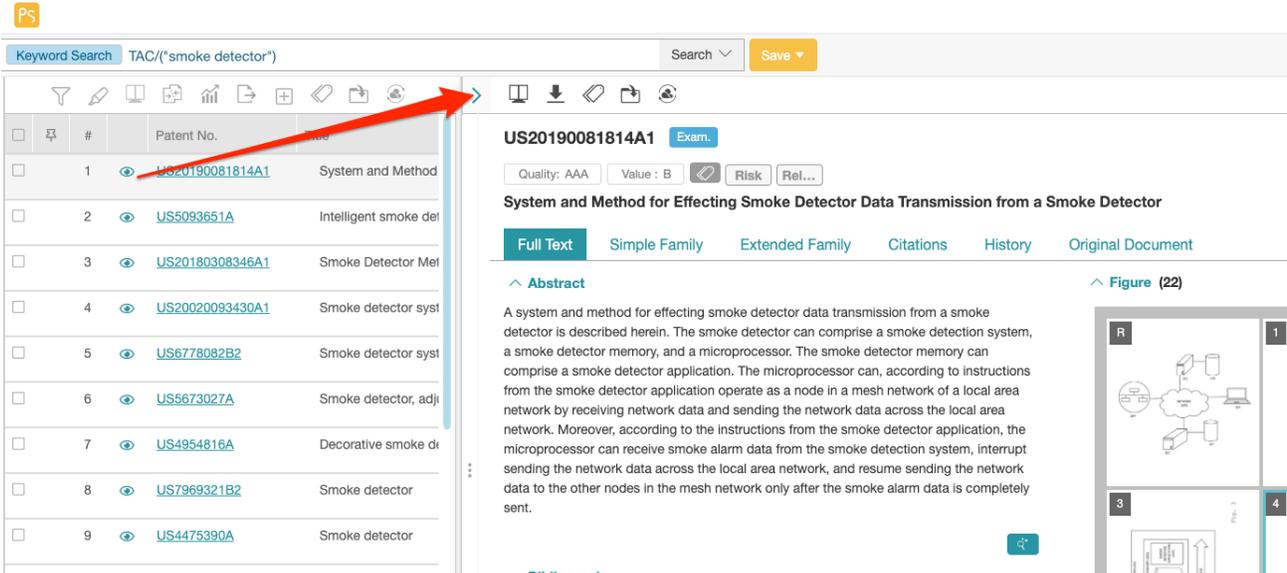
To select which columns are displayed, please refer to this [section](#).

| # | Patent No. | Title | Tag | Legal Status | Appl. Date | Appl. No. | Pub./Issue Date | Inventor | Curr. Assignee |
|---|-----------------|--|------|-----------------|------------|-----------|-----------------|-------------------|----------------|
| 1 | US20190081814A1 | System and Method for Effecting Smoke... | Risk | Exam. | 2018-09-13 | 16/130923 | 2019-03-14 | Michael Orr | 4MORR ENTERPP |
| 2 | US5093651A | Intelligent smoke detector | Risk | Lapsed | 1990-10-11 | 07/595860 | 1992-03-03 | Thomas; Edward M. | THOMAS EDWARI |
| 3 | US20180308346A1 | Smoke Detector Methods And Systems | Risk | Exam. | 2018-04-18 | 15/955969 | 2018-10-25 | Martin Allemann | SIEMENS SCHWE |
| 4 | US20020093430A1 | Smoke detector system for a house | Risk | PGPub - Granted | 2002-01-03 | 10/037975 | 2002-07-18 | Goodwin, Jason | GOODWIN JASON |

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 .

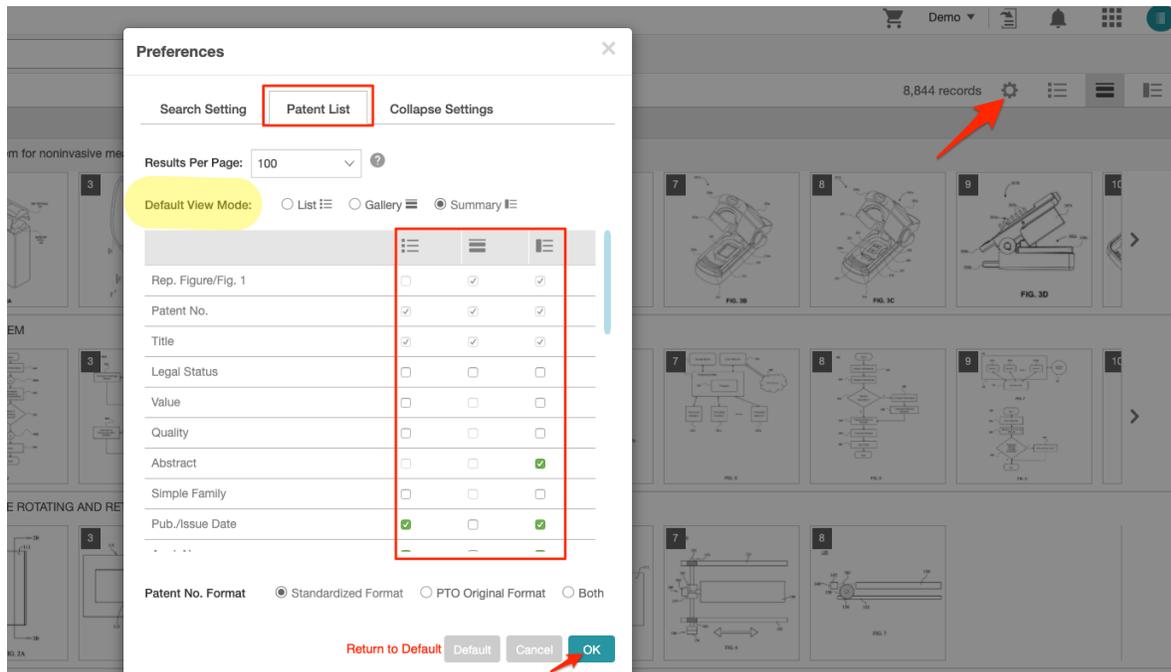


Note: Tools such as Filter, Highlighter, Statistical Chart, Collapse, Expand by Family, and export) are disabled in Split View.

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.



The Preferences dialog box is open, showing the 'Patent List' tab. The 'Default View Mode' is set to 'List'. The table below shows the display options for various fields across three view modes (List, Gallery, Summary).

| Field | List | Gallery | Summary |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Rep. Figure/Fig. 1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Patent No. | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Title | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Legal Status | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Value | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Quality | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Abstract | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Simple Family | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Pub./Issue Date | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Patent No. Format: Standardized Format PTO Original Format Both

Buttons: Return to Default, Default, Cancel, OK

Highlighter

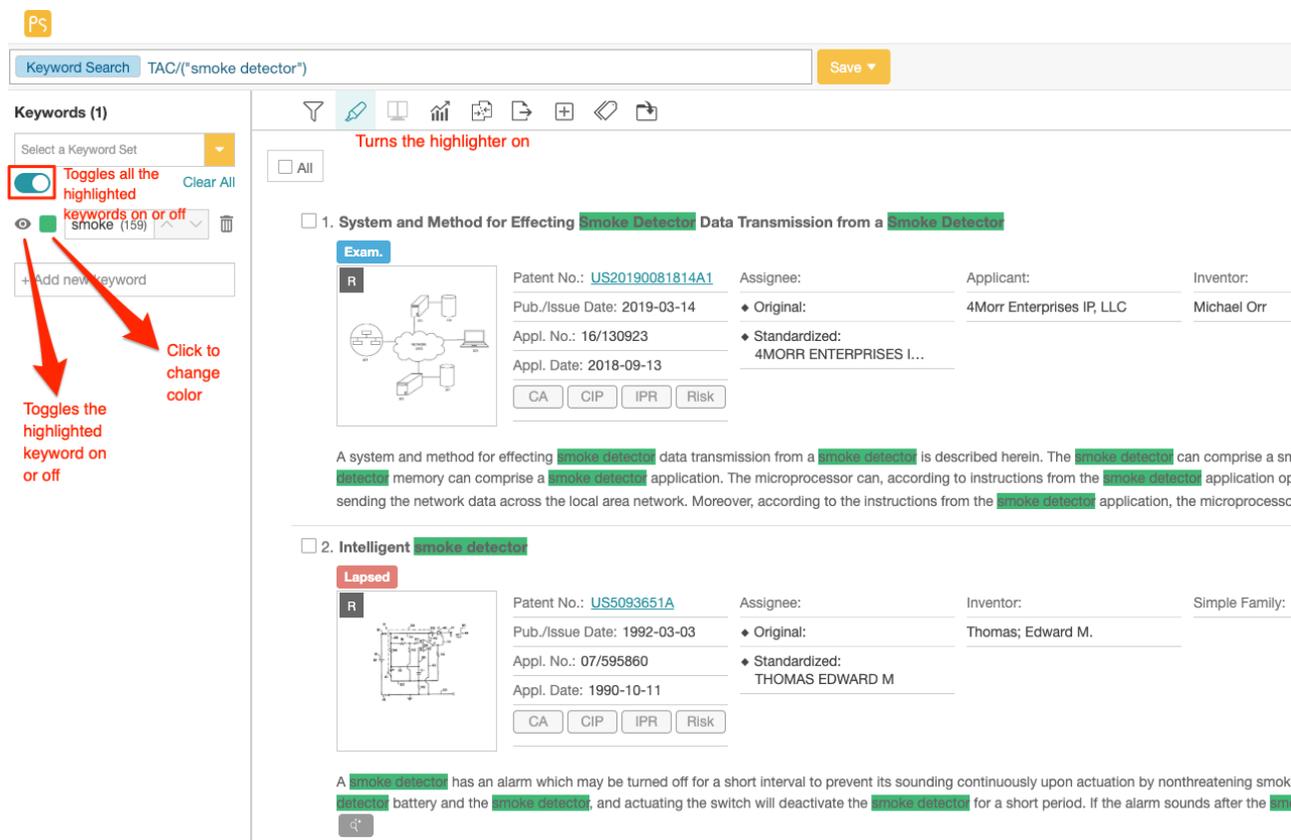
Highlighter within the Search Results page

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.



The screenshot shows a search interface with a keyword search bar containing "TAC/('smoke detector')". On the left, a "Keywords (1)" panel is visible, featuring a toggle switch for "Toggles all the highlighted keywords on or off" (currently on) and a "Clear All" button. Below this is a section for "keywords on or off" with a dropdown menu showing "smoke (159)". A red box highlights the toggle switch, with a red arrow pointing to it and the text "Toggles the highlighted keyword on or off". Another red arrow points to the "smoke (159)" text, with the text "Click to change color".

The main search results area displays two results:

- 1. System and Method for Effecting **Smoke Detector** Data Transmission from a **Smoke Detector****
Exam. R
Patent No.: [US20190081814A1](#) Assignee: Applicant: Inventor:
Pub./Issue Date: 2019-03-14 ♦ Original: 4Morr Enterprises IP, LLC Michael Orr
Appl. No.: 16/130923 ♦ Standardized: 4MORR ENTERPRISES I...
Appl. Date: 2018-09-13
CA CIP IPR Risk
A system and method for effecting **smoke detectors** data transmission from a **smoke detector** is described herein. The **smoke detector** can comprise a sm **detector** memory can comprise a **smoke detector** application. The microprocessor can, according to instructions from the **smoke detector** application op sending the network data across the local area network. Moreover, according to the instructions from the **smoke detector** application, the microprocessor
- 2. Intelligent **smoke detectors****
Lapsed R
Patent No.: [US5093651A](#) Assignee: Inventor: Simple Family:
Pub./Issue Date: 1992-03-03 ♦ Original: Thomas; Edward M.
Appl. No.: 07/595860 ♦ Standardized: THOMAS EDWARD M
Appl. Date: 1990-10-11
CA CIP IPR Risk
A **smoke detectors** has an alarm which may be turned off for a short interval to prevent its sounding continuously upon actuation by nonthreatening smoke **detectors** battery and the **smoke detectors**, and actuating the switch will deactivate the **smoke detectors** for a short period. If the alarm sounds after the **smo**

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

The screenshot shows a patent search interface. On the left, there is a 'Keywords (7)' sidebar with a list of keywords: detect (174), alarm (10), sound (2), smoke (188), switch (3), network (5), and timing (1). Each keyword has a trash icon. Below the list is a '+ Add new keyword' button. At the bottom of the sidebar is a yellow button labeled 'Save to Keyword Sets'. A red arrow points from this button to the 'Keywords (7)' list. The main area shows search results for 'TAC("smoke detector")'. The first result is '1. System and Method for Effecting Smoke Detection Data Transmission from a Smoke Detector'. The second result is '2. Intelligent smoke detector'. A pagination bar at the bottom shows 'Prev 1 2 3 4 5 6 7 8 9 10 ... Next'.

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.

This screenshot shows the 'Keywords (7)' sidebar with a list of keyword sets. The sets are: Set 1 (0/40), Set 2 (0/40), Set 3 (0/40), Set 4 (0/40), Set 5 (0/40), Set 6 (0/40), Set 7 (0/40), Set 8 (0/40), Set 9 (0/40), and Set 10 (0/40). 'Set 1' is highlighted with a red border. Below the list is a yellow button labeled 'Save to Keyword Sets'. The main area shows search results for 'TAC("smoke detector")'.

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.

The screenshot shows a software interface for keyword management. At the top, there is a search bar with the text "Keyword Search TAC/('smoke detector')". Below the search bar, a "Keywords (7)" section is highlighted with a red box. It contains a dropdown menu labeled "Set 1 (7/40)" and a "Clear All" button. Below this, there is a list of keywords: "detect" (174), "alarm" (10), "sound" (2), "smoke" (188), "switch" (3), "network" (5), and "timing" (1). Each keyword has a trash icon. At the bottom of this list is a button "+ Add new keyword". To the right of the keywords list, there is a search results page. It features a green notification box that says "Successfully Saved". Below the notification, there are two search results. The first result is titled "1. System and Method for Effecting Smoke Detector Data Transmission from a Smoke Detector". It includes an "Exam." section with a diagram, a patent number "US20190081814A1", and other details. The second result is titled "2. Intelligent smoke detector" and is marked as "Lapsed".

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

This screenshot shows the same interface as the previous one, but with the "Keywords (7)" dropdown menu expanded. The menu lists "Set 1 (7/40)" at the top, followed by "Set 1 (7/40)", "Set 2 (0/40)", "Set 3 (0/40)", "Set 4 (0/40)", "Set 5 (0/40)", "Set 6 (0/40)", "Set 7 (0/40)", "Set 8 (0/40)", "Set 9 (0/40)", and "Set 10 (0/40)". Each set name has an edit icon (a pencil) next to it. A red arrow points to the edit icon for the second "Set 1 (7/40)" entry. The search results page on the right is partially visible, showing the same patent information as in the previous screenshot.

- 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.

Keywords (4)

smoke detector (4/40)

Clear All

detector (288)

alarm (104)

sound (4)

smoke (540)

+ Add new keyword

US20190081814A1 Exam.

Quality: AAA Value: AA CA CIP IPR Risk

System and Method for Effecting Smoke Detector Data Transmission from a Smoke Detector

Full Text Simple Family Extended Family Citations History Original Document

Abstract

A system and method for effecting smoke detector data transmission from a smoke detector is described herein. The smoke detector can comprise a smoke detection system, a smoke detector memory, and a microprocessor. The smoke detector memory can comprise a smoke detector application. The microprocessor can, according to instructions from the smoke detector application operate as a node in a mesh network of a local area network by receiving network data and sending the network data across the local area network. Moreover, according to the instructions from the smoke detector application, the

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.

Keywords (4)

smoke detector (4/40)

Clear All

detector

alarm

sound

smoke

+ Add new keyword

US20190081814A1 Exam.

Quality: AAA Value: AA CA CIP IPR Risk

System and Method for Effecting Smoke Detector Data Transmission from a Smoke Detector

Full Text Simple Family Extended Family Citations History Original Document

Abstract

A system and method for effecting smoke detector data transmission from a smoke detector is described herein. The smoke detector can comprise a smoke detection system, a smoke detector memory, and a microprocessor. The smoke detector memory can comprise a smoke detector application. The microprocessor can, according to instructions from the smoke detector application operate as a node in a mesh network of a local area network by receiving network data and sending the network data across the local area network. Moreover, according to the instructions from the smoke detector application, the microprocessor can receive smoke alarm data from the smoke detection system, interrupt sending the network data across the local area network, and resume sending the network data to the other nodes in the mesh network only after the smoke alarm data is completely sent.

Bibliography

| | |
|---------------------|---|
| Earliest Priority : | 2017-09-13 |
| Earliest Appl. : | 2018-09-13 |
| Legal Status : | Under Substantive Examination |
| Curr. Assignee : | 4MOBR ENTERPRISES IP LLC 2019-09-23 |
| Assignee (Std) : | 4MOBR ENTERPRISES IP LLC [+Orig_Assignee] |
| Patent Family : | 6 Members(Family.ID : 65631652) US(6) |
| Patent Type : | Utility Patent |

Claims

1. Claim# 1

US5093651A Lapsed

Quality: C Value: B CA CIP IPR Risk

Intelligent smoke detector

Full Text Simple Family Extended Family Citations History Original Document

Abstract

A smoke detector has an alarm which may be turned off for a short interval to prevent its sounding upon actuation by nonthreatening smoke or a malfunction. A timing circuit having a switch is connected to the smoke detector battery and the smoke detector, and actuating the switch will deactivate the alarm for a short period. If the alarm sounds after the smoke detector is automatically reconnected to the switch may be reactivated.

Bibliography

| | |
|---------------------|---|
| Earliest Priority : | 1990-10-11 |
| Earliest Appl. : | 1990-10-11 |
| Legal Status : | 1996-03-03 Abandoned by assignee due to nonpayment. |
| Curr. Assignee : | THOMAS EDWARD M 2019-09-23 |
| Assignee (Std) : | THOMAS EDWARD M |
| Patent Family : | 1 Members(Family.ID : 24384982) US(1) |
| Patent Type : | Utility Patent |

Claims

What is claimed is:

1. A smoke detector apparatus comprising:

a) a source of power;

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.

| | | | |
|-----------|------|--------|-----|
| | High | Medium | Low |
| Risk | High | Medium | Low |
| Relevance | High | Medium | Low |

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.

Edit Tag Settings ✕

| | | | | |
|---|---------|---------|---------|----|
| Risk | High | Medium | Low | |
| Relevance | High | Medium | Low | 🗑️ |
| Subject | Level 1 | Level 2 | Level 3 | 🗑️ |
| +  Click to add | | | | |

Cancel Submit

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](#)

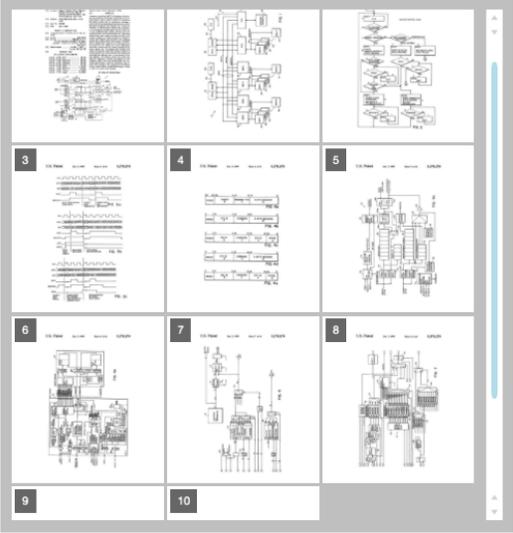
Full text

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



US5379379A Expired
Quality: D Value: A  Pa... La...
Memory control unit with selective execution of queued read and write requests
[Full Text](#) [Simple Family](#) [Extended Family](#) [Citations](#) [History](#) [Litigation](#) [Original Document](#)
Abstract

A memory control unit (MCU) 22 includes a first interface for interfacing the memory control unit to one or more memory units; a second interface for interfacing the memory control unit to a system bus, including a system data bus for expressing information units, including memory read and write requests, and a system address bus. The MCU further includes logic, responsive to a write request from the system bus, for storing one or more information units within a memory unit at an address specified by the system address bus. The storing logic includes write request receiving and buffer logic having a plurality of storage locations for storing received write requests and associated write addresses prior to the execution of the write requests. The MCU further includes logic, responsive to a read request from the system bus, for reading one or more information units from a memory unit at a location specified by the system address bus. The reading logic includes read request receiving and buffer logic having a plurality of storage locations for storing received read requests and associated read addresses prior to the execution of the read requests. The memory control unit further has logic for comparing a received read address to write addresses stored in the write address buffer, the comparing logic having an output for indicating, when asserted, the occurrence of the reception of a read address having a value within a predetermined range of values of one of the stored write addresses.

Bibliography
Earliest Priority : 1988-06-30
Earliest Appl. : 1988-06-30
Legal Status : Patent term is due on 2012-01-03. 17 years from issue date
1995-01-03 of 5379379
Curr. Assignee : [LG ELECTRONICS INC](#) 2019-02-18
Assignee (Std) : [WANG LABORATORIES INC](#) [+Orig. Assignee]
Patent Family : 8 Members([Family ID : 22794950](#))
DE(2)/ EP(2)/ CA(1)/ JP(1)/ US(1)/ WO(1)
Patent Type : Utility Patent
[Show All](#)
Claims
Figure (11)

Specification
FIELD OF THE INVENTION

Simple Family

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

US20080107730A1 Abandoned Appl.

Quality: C Value: A Pa... La...

SUSTAINED RELEASE PHARMACEUTICAL PREPARATIONS AND METHODS FOR PRODUCING THE SAME

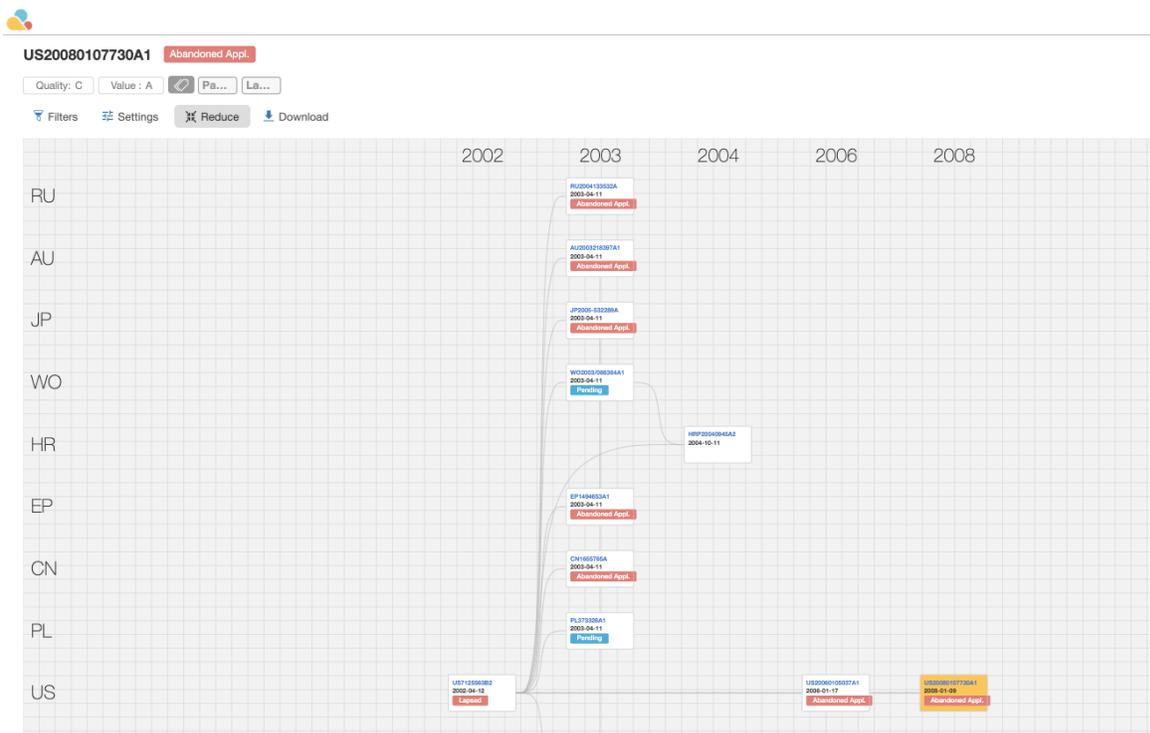
Full Text **Simple Family** Extended Family Citations History Litigation Original Document

Simple Family: 13

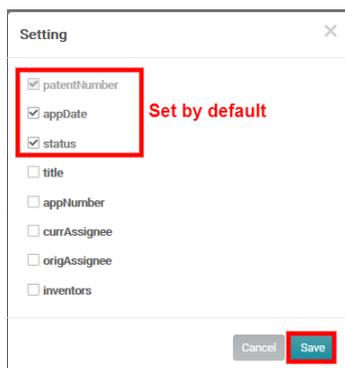
| # | Patent No. | Title | Legal Status | Appl. Date | Appl. No. | Earliest Priority |
|----|-----------------|--|-----------------|------------|-------------------|-------------------|
| 1 | EP1494653A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Abandoned Appl. | 2003-04-11 | 03714395.5 | 2002-04-12 |
| 2 | US7125563B2 | Sustained release pharmaceutical preparations a... | Lapsed | 2002-04-12 | 10/120501 | 2002-04-12 |
| 3 | CA2481667A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Abandoned Appl. | 2003-04-11 | 20032481667 | 2002-04-12 |
| 4 | PL373328A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Pending | 2003-04-11 | 20030373328 | 2002-04-12 |
| 5 | RU2004133532A | ФАРМАЦЕВТИЧЕСКИЕ ПРЕПАРАТЫ С ЗАМЕ... | Abandoned Appl. | 2003-04-11 | 20040133532 | 2002-04-12 |
| 6 | AU2003216397A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Abandoned Appl. | 2003-04-11 | 20030218397 | 2002-04-12 |
| 7 | HRP20040945A2 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Abandoned Appl. | 2004-10-11 | 2004P000945 | 2002-04-12 |
| 8 | US20030198670A1 | Sustained release pharmaceutical preparations a... | PQPub - Granted | 2002-04-12 | 10/120501 | 2002-04-12 |
| 9 | US20060105037A1 | Sustained release pharmaceutical preparations a... | Abandoned Appl. | 2006-01-17 | 11/332158 | 2002-04-12 |
| 10 | US20080107730A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Abandoned Appl. | 2008-01-09 | 11/971741 | 2002-04-12 |
| 11 | WO2003/086364A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Pending | 2003-04-11 | PCT/US2003/009210 | 2002-04-12 |
| 12 | CN1655765A | Sustained release pharmaceutical preparations a... | Abandoned Appl. | 2003-04-11 | 03811501.8 | 2002-04-12 |
| 13 | JP2005-532289A | 持続放出性医薬製剤及びその製造方法 | Abandoned Appl. | 2003-04-11 | P2003-583385 | 2002-04-12 |

Prev 1 Next

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.



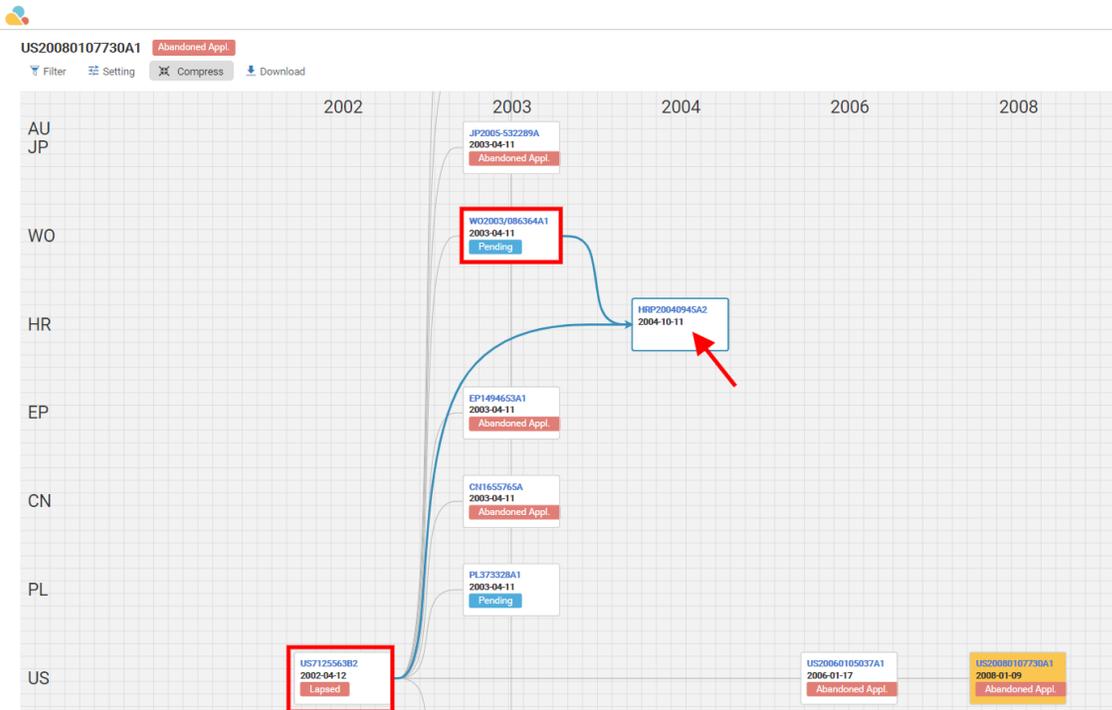
Click on the **Filters** icon  to narrow down results by patent office and application date. Define the patent data fields you want to be displayed by clicking on **Settings**  .



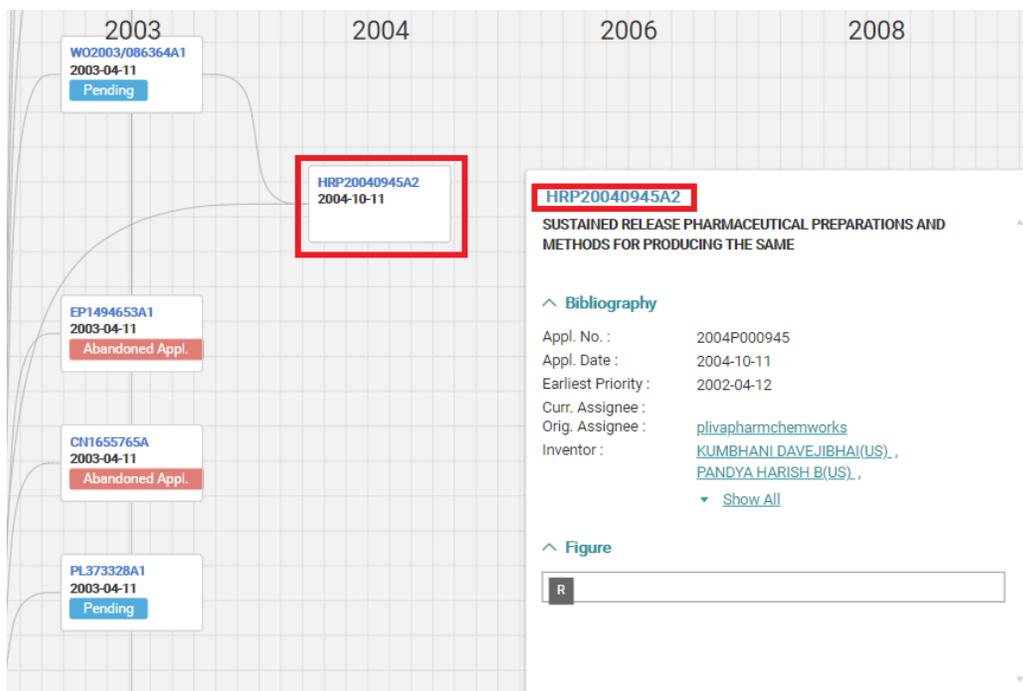
Click on the **Expand**  to use a larger portion of the screen. To download as a JPG image, set the view (zoomed in or zoomed out) you want to get before clicking on **Download**  . Whatever part or area is shown on screen, it will reflect on the downloaded image. Users can use either the zoom in and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

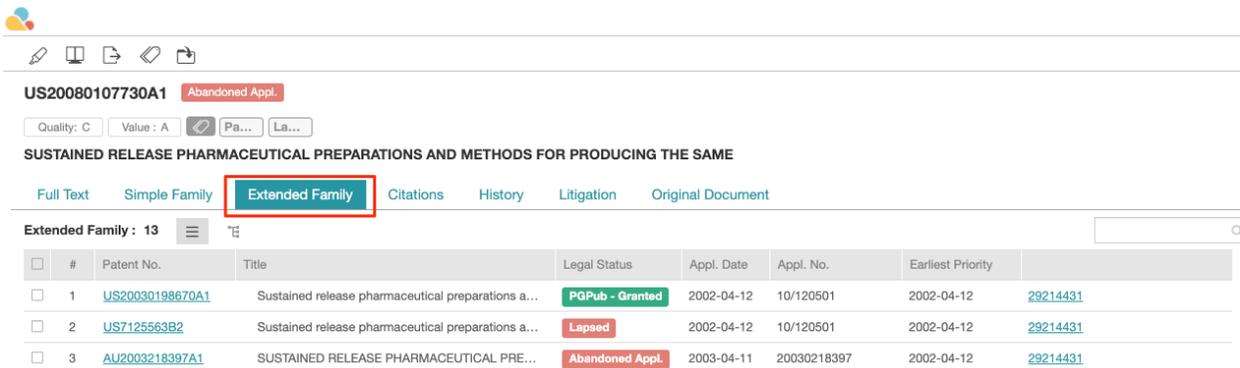


Hover your mouse over a patent to see its title, legal status, abstract, bibliography, and figure. Click on the resulting display to open its patent page in a new tab.



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).



US20080107730A1 **Abandoned Appl.**

Quality: C Value: A Pa... La...

SUSTAINED RELEASE PHARMACEUTICAL PREPARATIONS AND METHODS FOR PRODUCING THE SAME

Full Text Simple Family **Extended Family** Citations History Litigation Original Document

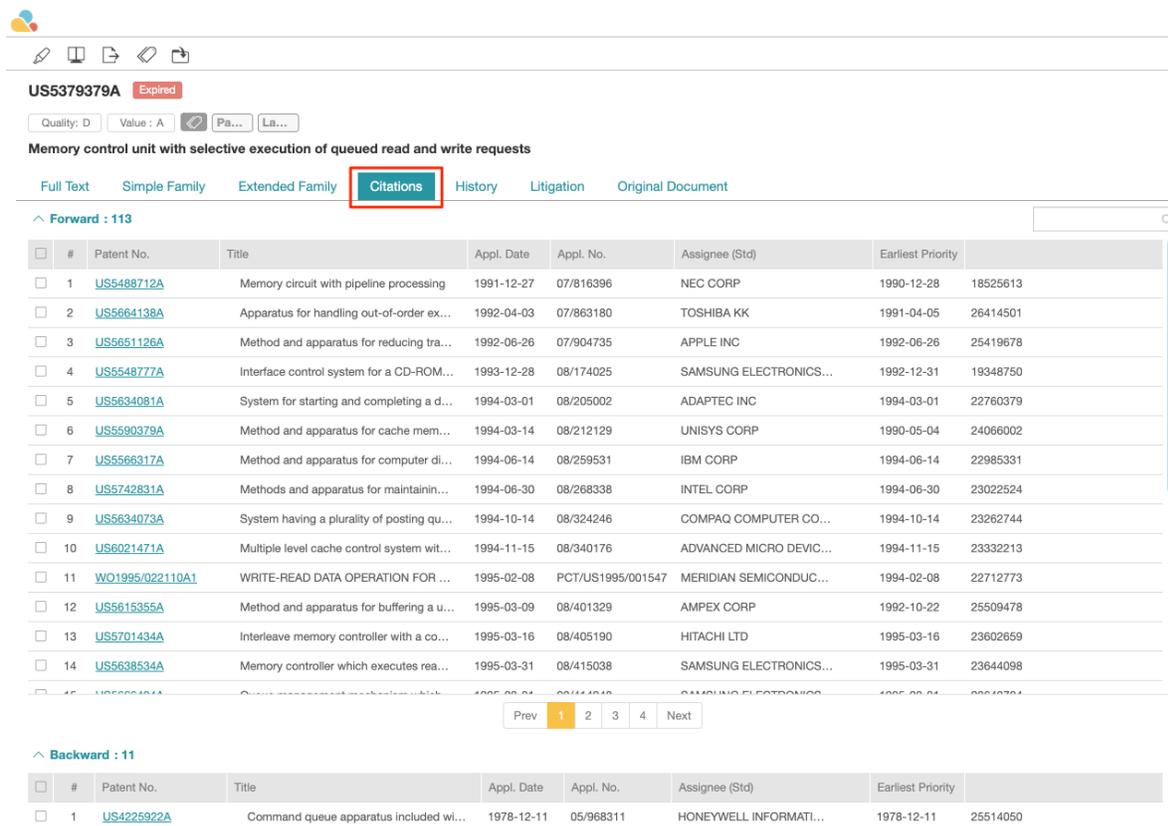
Extended Family : 13

| # | Patent No. | Title | Legal Status | Appl. Date | Appl. No. | Earliest Priority | |
|---|---------------------------------|--|------------------------|------------|-------------|-------------------|--------------------------|
| 1 | US20030198670A1 | Sustained release pharmaceutical preparations a... | PGPub - Granted | 2002-04-12 | 10/120501 | 2002-04-12 | 29214431 |
| 2 | US7125563B2 | Sustained release pharmaceutical preparations a... | Lapsed | 2002-04-12 | 10/120501 | 2002-04-12 | 29214431 |
| 3 | AU2003218397A1 | SUSTAINED RELEASE PHARMACEUTICAL PRE... | Abandoned Appl. | 2003-04-11 | 20030218397 | 2002-04-12 | 29214431 |

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.



US5379379A **Expired**

Quality: D Value: A Pa... La...

Memory control unit with selective execution of queued read and write requests

Full Text Simple Family Extended Family **Citations** History Litigation Original Document

Forward : 113

| # | Patent No. | Title | Appl. Date | Appl. No. | Assignee (Std) | Earliest Priority | |
|----|---------------------------------|--|------------|-------------------|-------------------------|-------------------|----------|
| 1 | US5488712A | Memory circuit with pipeline processing | 1991-12-27 | 07/816396 | NEC CORP | 1990-12-28 | 18525613 |
| 2 | US5664138A | Apparatus for handling out-of-order ex... | 1992-04-03 | 07/863180 | TOSHIBA KK | 1991-04-05 | 26414501 |
| 3 | US5651126A | Method and apparatus for reducing tra... | 1992-06-26 | 07/904735 | APPLE INC | 1992-06-26 | 25419678 |
| 4 | US5548777A | Interface control system for a CD-ROM... | 1993-12-28 | 08/174025 | SAMSUNG ELECTRONICS... | 1992-12-31 | 19348750 |
| 5 | US5634081A | System for starting and completing a d... | 1994-03-01 | 08/205002 | ADAPTEC INC | 1994-03-01 | 22760379 |
| 6 | US5590379A | Method and apparatus for cache mem... | 1994-03-14 | 08/212129 | UNISYS CORP | 1990-05-04 | 24066002 |
| 7 | US5566317A | Method and apparatus for computer di... | 1994-06-14 | 08/259531 | IBM CORP | 1994-06-14 | 22985331 |
| 8 | US5742831A | Methods and apparatus for maintainin... | 1994-06-30 | 08/268338 | INTEL CORP | 1994-06-30 | 23022524 |
| 9 | US5634073A | System having a plurality of posting qu... | 1994-10-14 | 08/324246 | COMPAQ COMPUTER CO... | 1994-10-14 | 23262744 |
| 10 | US6021471A | Multiple level cache control system wit... | 1994-11-15 | 08/340176 | ADVANCED MICRO DEVIC... | 1994-11-15 | 23332213 |
| 11 | WO1995/022110A1 | WRITE-READ DATA OPERATION FOR ... | 1995-02-08 | PCT/US1995/001547 | MERIDIAN SEMICONduc... | 1994-02-08 | 22712773 |
| 12 | US5815355A | Method and apparatus for buffering a u... | 1995-03-09 | 08/401329 | AMPEX CORP | 1992-10-22 | 25509478 |
| 13 | US5701434A | Interleave memory controller with a co... | 1995-03-16 | 08/405190 | HITACHI LTD | 1995-03-16 | 23602659 |
| 14 | US5638534A | Memory controller which executes rea... | 1995-03-31 | 08/415038 | SAMSUNG ELECTRONICS... | 1995-03-31 | 23644098 |

Prev 1 2 3 4 Next

Backward : 11

| # | Patent No. | Title | Appl. Date | Appl. No. | Assignee (Std) | Earliest Priority | |
|---|----------------------------|--|------------|-----------|------------------------|-------------------|----------|
| 1 | US4225922A | Command queue apparatus included wi... | 1978-12-11 | 05/968311 | HONEYWELL INFORMATI... | 1978-12-11 | 25514050 |

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



US9774745B2 Active

Quality: AA Value: AAA Pa... La...

Providing real-time voice communication between devices connected to an internet protocol network and devices connected to a public switched telephone network

Full Text Simple Family Extended Family **Citations** History Litigation Original Document

Forward : 30

Backward : 5

| # | Patent No. | Title | Appl. Date | Appl. No. | Assignee (Std) | Earliest Priority | |
|---|----------------------------------|--|------------|-----------|--------------------------|-------------------|----------|
| 1 | US6282574B1* | Method, server and telecommunications... | 2000-02-24 | 09/512471 | BELL ATLANTIC NETWORK... | 1997-03-06 | 25208413 |
| 2 | US6411704B1* | System and method for providing teleph... | 1999-02-18 | 09/251031 | AMERITECH CORP | 1999-02-18 | 22950194 |
| 3 | US6614781B1* | Voice over data telecommunications net... | 1998-11-20 | 09/197203 | LEVEL 3 COMMUNICATIO... | 1998-11-20 | 22728451 |
| 4 | US7120139B1* | Broadband cable telephony network arc... | 1999-12-30 | 09/475141 | AT&T CO | 1999-12-30 | 23886359 |
| 5 | US20010024436A1* | Voice-over IP audio-data terminal proce... | 2000-12-18 | 09/739410 | BARRACLOUGH KEITH | 1999-12-17 | 26868196 |

Prev 1 Next

Non-Patent Literature : 0

No Available Data

*Cited by Examiner

History

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



US5379379A Expired

Quality: D Value: A Pa... Las...

Memory control unit with selective execution of queued read and write requests

Full Text Simple Family Extended Family Citations **History** Litigation Original Document

Application (PAIR) Assignment Data Fee Status Patent Term Adjustment (PAIR) Prosecution history INPADOC Legal status

Assignment Data : 7

| | | | | |
|--|---|--|------------------------------|---|
| Reel/frame 006932/0047 Date recorded 1993-12-27 | Conveyance Type SECURITY INTEREST (SEE DOCUMENT FOR DETAILS). | Assignor WANG LABORATORIES INC | Execution Date 1993-12-20 | Assignee (Owner) CONGRESS FINANCIAL CORP NEW ENGLAND Correspondent BROWN, RUDNICK, FREED & GESMER |
| Reel/frame 007341/0041 Date recorded 1995-02-16 | Conveyance Type RELEASE OF SECURITY INTEREST IN AND REASSIGNMENT OF U.S. PATENTS AND PATENT APPLICATIONS | Assignor CONGRESS FINANCIAL CORP NEW ENGLAND | Execution Date 1995-01-30 | Assignee (Owner) WANG LABORATORIES INC Correspondent TESTA, HURWITZ & THIBEAULT |
| Reel/frame 007377/0072 Date recorded 1995-03-15 | Conveyance Type SECURITY INTEREST (SEE DOCUMENT FOR DETAILS). | Assignor WANG LABORATORIES INC | Execution Date 1995-01-30 | Assignee (Owner) BT COMMERCIAL CORP AS AGENT Correspondent TESTA, HURWITZ & THIBEAULT |

Litigation

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

US5379379A Expired

Memory control unit with selective execution of queued read and write requests

Full Text Simple Family Extended Family Citations History **Litigation** Original Document

US Litigations : 25

3:08-cv-01829 (Filing : 2008-10-07) (Close : 2009-03-13) | California Southern District Court

| | | |
|--|---|----------------------------------|
| Plaintiff Broadcom Corporation [+ Law Firm & Attorneys] | Defendant Qualcomm Incorporated [+ Law Firm & Attorneys] | Judge William Q. Hayes |
|--|---|----------------------------------|

Patents-in-Suit: 2

| # | Patent No. | Title | Legal Status | Appl. Date | Appl. No. | Family ID |
|---|----------------------------|---|--------------|------------|-----------|--------------------------|
| 1 | US5379379A | Memory control unit with selective execution of queued read and write ... | Expired | 1990-09-06 | 07/580365 | 22794950 |
| 2 | US5077733A | Priority apparatus having programmable node dwell time | Expired | 1989-09-11 | 07/405792 | 26980776 |

4:07-cv-06511 (Filing : 2007-12-31) (Close : 2009-10-27) | California Northern District Court

9:07-cv-00138 (Filing : 2007-06-18) (Close : 2007-12-28) | Texas Eastern District Court

06-937 (Filing : 2007-01-08) (Close : 2008-07-11) | U.S. Supreme Court

4:06-cv-06100 (Filing : 2006-09-28) (Close : 2007-05-31) | California Northern District Court

3:06-cv-02110 (Filing : 2006-08-31) (Close : 2007-11-16) | Ohio Northern District Court

2005-1303 (Filing : 2005-03-08) (Close : 2006-07-07) | Court of Appeals for the Federal Circuit

| | | |
|--|--|--------------|
| Appellant LG Electronics, Inc. | Appellee Bizcom Electronics, Inc., | Judge |
|--|--|--------------|

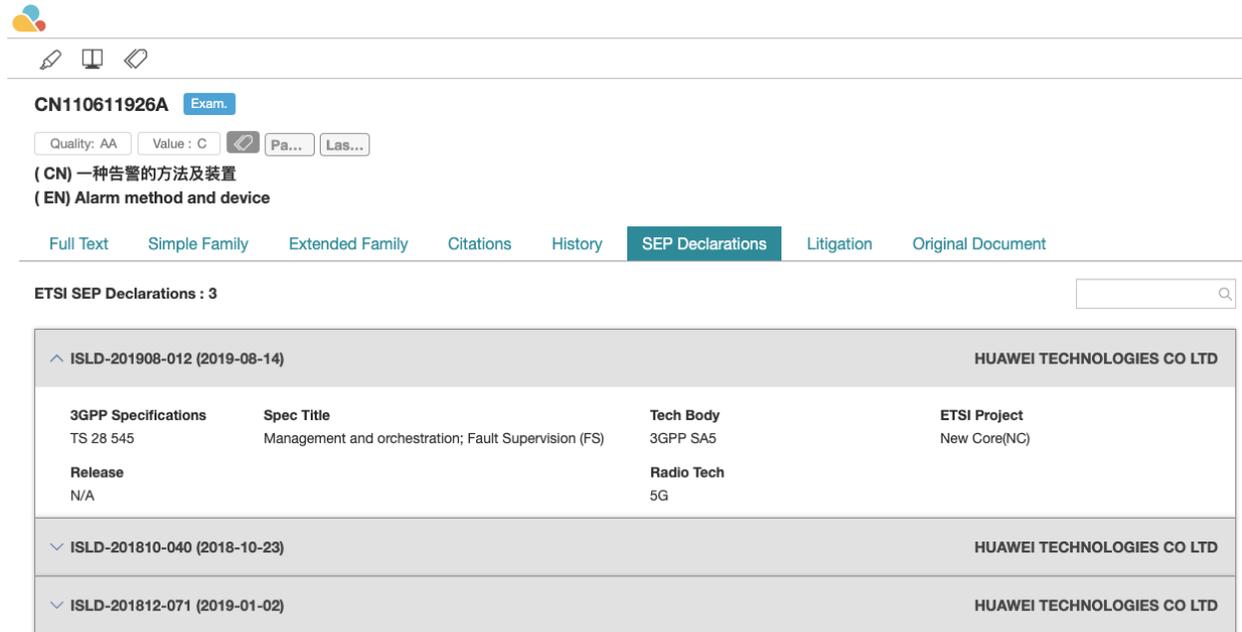
Case records are updated everyday from PTAB Open API and authorized sources. Data coverage for each jurisdiction is as follows:

| 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.



The screenshot shows the ETSI SEP Declarations interface. At the top, there is a search bar and navigation tabs: Full Text, Simple Family, Extended Family, Citations, History, SEP Declarations (selected), Litigation, and Original Document. Below the tabs, it displays "ETSI SEP Declarations : 3". A table lists three entries:

| ISLD-201908-012 (2019-08-14) | HUAWEI TECHNOLOGIES CO LTD | | |
|---|---|------------------------------|-------------------------------------|
| 3GPP Specifications TS 28 545 | Spec Title Management and orchestration; Fault Supervision (FS) | Tech Body 3GPP SA5 | ETSI Project New Core(NC) |
| Release N/A | | Radio Tech 5G | |

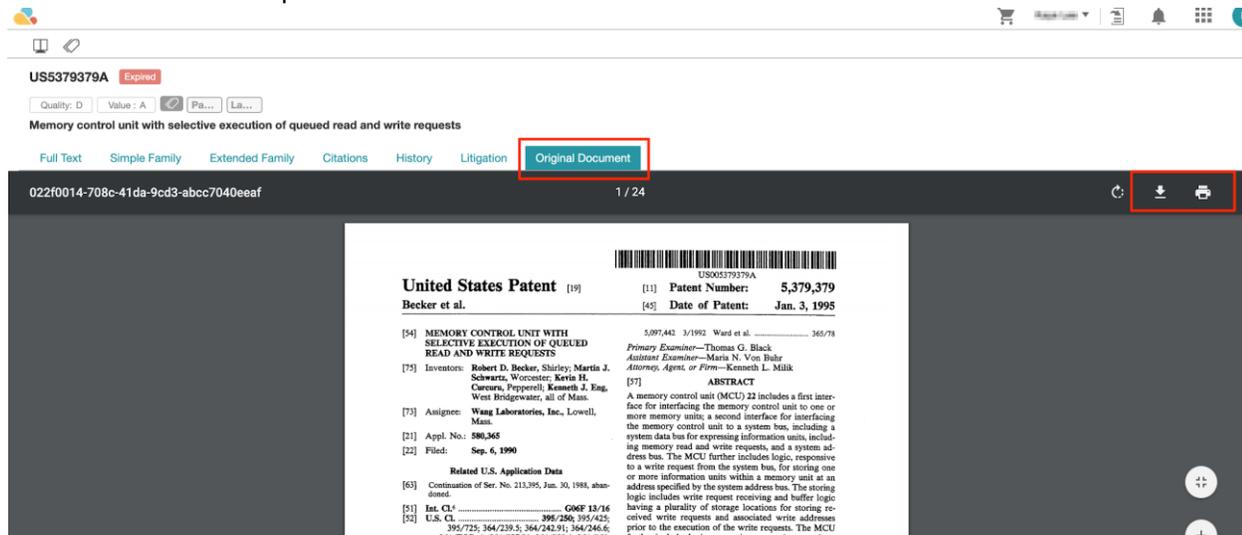
Below this, two more entries are shown with expandable arrows:

- ISLD-201810-040 (2018-10-23) HUAWEI TECHNOLOGIES CO LTD
- ISLD-201812-071 (2019-01-02) HUAWEI TECHNOLOGIES CO LTD

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.



The screenshot shows the US Patent 5,379,379 document. The patent title is "MEMORY CONTROL UNIT WITH SELECTIVE EXECUTION OF QUEUED READ AND WRITE REQUESTS". The inventors are Robert D. Becker, Shirley, Martin J. Schwartz, Worcester, Kevin H. Carone, Peppercorn, Kenneth J. Eng, West Bridgewater, all of Mass. The assignee is Wang Laboratories, Inc., Lowell, Mass. The patent number is 5,379,379, and the date of patent is Jan. 3, 1995. The document includes a table of contents and a list of related U.S. application data.

United States Patent [19] [11] Patent Number: **5,379,379**
Becker et al. [45] Date of Patent: **Jan. 3, 1995**

[54] MEMORY CONTROL UNIT WITH SELECTIVE EXECUTION OF QUEUED READ AND WRITE REQUESTS 5,097,442 3/1992 Ward et al. 365/78
Primary Examiner—Thomas G. Black
Assistant Examiner—Maria N. Von Bahr
Attorney, Agent, or Firm—Kenneth L. Malik

[75] Inventors: Robert D. Becker, Shirley, Martin J. Schwartz, Worcester, Kevin H. Carone, Peppercorn, Kenneth J. Eng, West Bridgewater, all of Mass.

[73] Assignee: Wang Laboratories, Inc., Lowell, Mass.

[21] Appl. No.: 080,365

[22] Filed: Sep. 6, 1990

Related U.S. Application Data

[65] Continuation of Ser. No. 213,395, Jan. 30, 1988, abandoned.

[51] Int. Cl. G06F 13/16

[52] U.S. Cl. 395/280; 395/425; 395/725; 364/239.5; 364/241.91; 364/246.6; 364/DIG. 1; 364/937.01; 364/939.1; 364/969;

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**

The screenshot displays the Patent Vault Memo Editor interface. On the left, a sidebar contains a 'Project' dropdown set to 'For Demo Only' and a red-bordered button labeled '+ Add Memo to Current Patent'. Below this is a section titled 'Adding a Memo' with instructions: 'Select any word, sentence, or paragraph and click on the "Add Memo" tooltip', 'Click on the + button at the bottom of the memo tab or on the memo icon next to the patent number to add a memo to a patent directly', and 'Zoom in and click on the button located in the bottom right-hand corner to add a memo to one of the pictures'. The main area shows the patent document for US7805382B2. The top toolbar includes icons for edit, print, download, and a red-bordered 'Add Memo' icon with a red '1' above it. A red arrow points from this icon to the text 'The match-based employment system can also order the bi-directional matching results based on a bi-directional match score and display the bi-directional matching results according to the ordering.' in the abstract section. The abstract text describes a match-based employment system that collects a plurality of employer seeker and employee seeker profiles and displays at least a portion of the results to an employer seeker or an employee seeker. The match-based employment system can also perform the matching such that approximately 70% of a matching score depends upon the quality of the match between employee seeker desires and employment seeker attributes and approximately 30% of the matching score depends upon the quality of the match between employment seeker desires and employee seeker attributes. The interface also shows a 'Specification' section with 'FIELD OF THE INVENTION' and 'BACKGROUND OF THE INVENTION' sections, and a 'Figure (19)' section with three diagrams labeled R, 1, and 2.

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**.

The screenshot shows a 'Create Group' dialog box. It features a title bar with the text 'Create Group' and a close button (X). The main content area includes 'Sharing Settings' with two radio buttons: 'Public Memo' (which is selected) and 'Group Memo'. A red 'or' is placed between the two radio buttons. Below this is a 'Project' dropdown menu set to 'For Demo Only'. A 'Save' button is located at the bottom right of the dialog.

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

Memo Setting [X]

employee seeker profiles, bi-directionally matches the employer seeker and said employee ... [Public Memo]

[Profile Icon] T Test

B I U [List Icon] Normal [Color Icon] [Link Icon]

Add memo content

[Cancel] [Save]

- 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.

Create Group [X]

Sharing Settings Public Memo Group Memo

Project For Demo Only [v]

[+ Create Group]

[Save]

*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**.

Create Group [X] **Create Group** [X]

Memo Group Name for your group

Select members who can access those memos in this project

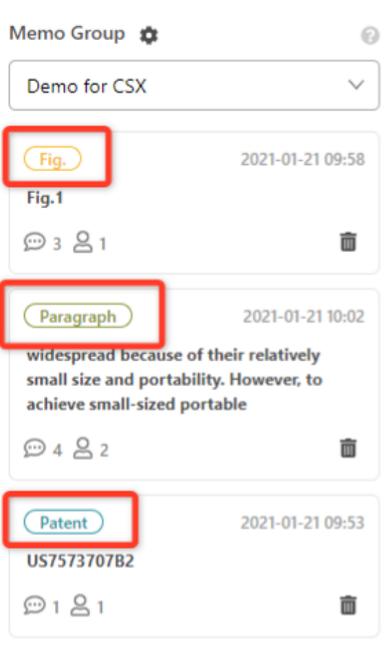
No Permission [1] Can Access [3]

| Member | Remove |
|--|----------|
| 1 [Profile Icon] inquartik.com PatentCloud Guide | [Remove] |
| 2 [Profile Icon] inquartik.com(manager) | [Remove] |
| 3 [Profile Icon] inquartik.com(manager) | [Remove] |

[Cancel] [Create]

- 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.

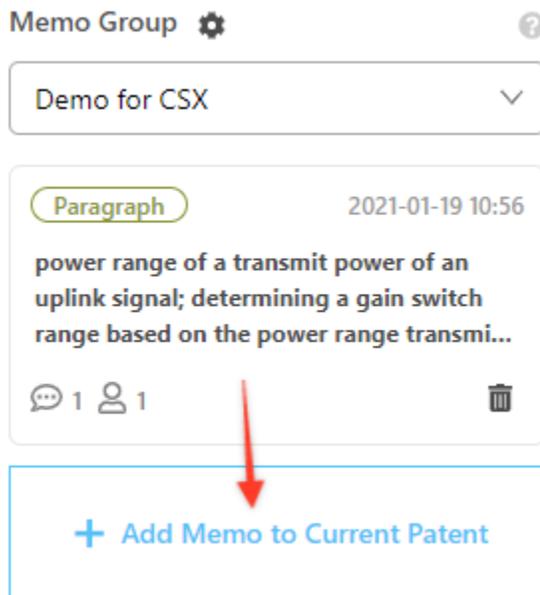
There are three types (Patent, Paragraphic, or Figure) of memos that mark different elements of a patent document. You can see at the top left of each memo thread to find out which type of the memo is associated with.



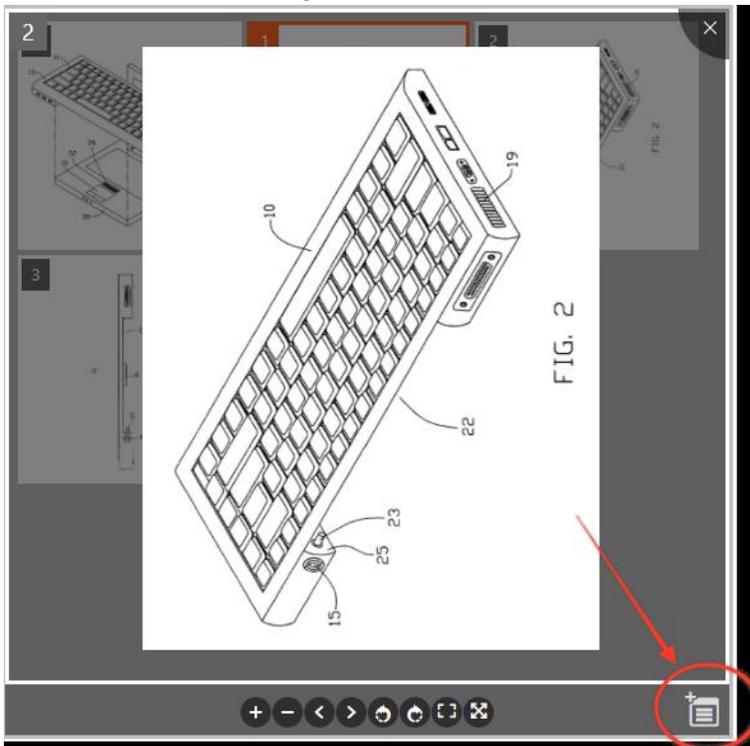
3. The text linked to the note is now underline in orange, once clicked the selected text will be highlighted in blue for easier retrieval:

[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.

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



- 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:

| Patent No. | Marked Content | Date Created | Type | Delete |
|-----------------|---|------------------|-----------|--------|
| US8647978E1 | US8647978E1 | 2021-01-20 11:34 | Patent | 🗑️ |
| US8717132B2 | configured to receive a voice instruction from a user and send received voice instruction to the control module. | 2021-01-02 18:06 | Paragraph | 🗑️ |
| US10845463B2 | US10845463B2 | 2021-01-02 18:05 | Patent | 🗑️ |
| US7573707B2 | US7573707B2 | 2020-12-21 11:33 | Patent | 🗑️ |
| CN2849800Y | CN2849800Y | 2020-12-21 11:22 | Patent | 🗑️ |
| US20070127205A1 | US20070127205A1 | 2020-12-21 11:21 | Patent | 🗑️ |
| US9532131B2 | a second inertial sensor included in the second earbud, wherein the first and second inertial sensors detect vibration of a user's vocal chords; processing by the first earbud the first acoustic sign | 2020-12-21 10:50 | Paragraph | 🗑️ |
| US8769127B2 | Fig.R | 2020-12-19 08:02 | Fig. | 🗑️ |
| US8238551 | wherein Ar is phenyl which is unsubstituted or substituted with at least one halo group; Q is lower alkoxy, and Q1 is methyl. | 2020-10-19 17:23 | Paragraph | 🗑️ |
| TW201931284A | TW201931284A | 2020-10-19 11:37 | Patent | 🗑️ |
| US10431044B2 | Fig.7 | 2020-09-23 11:57 | Fig. | 🗑️ |

- Switch between Public Memo or Group Memo to view the corresponding content
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- Public memo could filter by your created memos or the memos you commented on
- Do a keyword search for patent numbers or the specific text where the memo is stored
- Easily delete unwanted memos

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Project_20190926_2

Keyword Search TAC/(quantum computing) Search Save

2,068 records (0.04 seconds) Sort By: Relevance

QUANTUM COMPUTING DEVICE DESIGN

Patent No.: [US20190236218A1](#) Assignee: Applicant: Inventor:

Pub./Issue Date: 2019-08-01 • Original: International Business Machines Corporation Hanhee Paik

Appl. No.: 15/883652 • Standardize: IBM CORP Martin O. Sandberg

Appl. Date: 2018-01-30 Jay M. Gambetta

Firat Solgun

Salvatore Bernardo Olivadese

Techniques and a system for quantum computing device modeling and design are provided. In one example, a system includes a modeling component and a simulation component. The modeling component models a quantum device element of a quantum computing device as an electromagnetic circuit element to generate electromagnetic circuit data for the quantum computing device. The simulation component simulates the quantum computing device using the electromagnetic circuit data to generate response function data indicative of a response function for the quantum computing device. Additionally or alternatively, a Hamiltonian is constructed based on the res...

2 Distributed Quantum Computing System

Patent No.: [US20180365585A1](#) Assignee: Applicant: Inventor:

Pub./Issue Date: 2018-12-20 • Original: RIGETTI & CO., INC. RIGETTI & CO., INC. Robert Stanley Smith

Appl. No.: 16/012586 • Standardize: RIGETTI & CO INC William J. Zeng

Appl. Date: 2018-06-19

In a general aspect, user requests for access distributed quantum computing resources in a distributed quantum computing system are managed. In a general aspect, a job request for accessing a quantum computing resource is received. The job request includes a user id and a program. On authentication of a user associated with the job request, a job identifier is assigned to the job request, and a particular quantum computing resource is selected for the job request. The job request is individualized based on user permissions and pushed onto a queue to be processed for execution by the quantum computing resource.

3 Methods and systems for quantum computing

Patent No.: [US10044638B2](#) Assignee: Applicant: Inventor:

Pub./Issue Date: 2018-08-07 • Original: IQB INFORMATION TECH.. IQB INFORMATION TECHNOLOGIES INC. Majid Dadashkelayeh

Appl. No.: 15/830953 • Standardize: Pooya RONAGH

Patent list (3)

- [US20190236218A1](#)
QUANTUM COMPUTING DEVICE DESIGN
- [US10044638B2](#)
Methods and systems for quantum computing
- [US20180365585A1](#)
Distributed Quantum Computing System

drag and drop a patent to either side of the reading panel

US20190236218A1 Pending

Quality: B Value: A Risk: Rel:

QUANTUM COMPUTING DEVICE DESIGN

Full Text Simple Family Extended Family Citations History Original Do

Abstract

Techniques and a system for quantum computing device modeling and design are provided. In one example, a system includes a modeling component and a simulation component. The modeling component models a quantum device element of a quantum computing device as an electromagnetic circuit element to generate electromagnetic circuit data for the quantum computing device. The simulation component simulates the quantum computing device using the electromagnetic circuit data to generate response function data indicative of a response function for the quantum computing device. Additionally or alternatively, a Hamiltonian is constructed based on the response function.

Figure (14)

US10044638B2 Active

Quality: AAA Value: AA Risk: Rel:

Methods and systems for quantum computing

Full Text Simple Family Extended Family Citations History Original Do

Abstract

The present disclosure provides methods, systems, and media for quantum computing, including allowing access to quantum ready and/or quantum enabled computers in a distributed computing environment (e.g., the cloud). Such methods and systems may provide optimization and computational services. Methods and systems of the present disclosure may enable quantum computing to be relatively and readily scaled across various types of quantum computers and users at various locations, in some cases without the need for users to have a deep understanding of the resources, implementation or the knowledge that may be required for solving optimization problems using a quantum computer. Systems provided herein may include user interfaces that enable users to perform data analysis in a distributed computing environment while taking advantage of quantum technology in the backend.

Figure (15)

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.



US20190236218A1 Pending

Quality: B Value: A Risk Rele...

QUANTUM COMPUTING DEVICE DESIGN

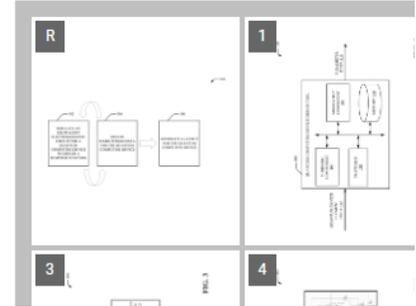
- Full Text
- Simple Family
- Extended Family
- Citations
- History
- Original Document

^ Abstract

Techniques and a system for quantum computing device modeling and design are provided. In one example, a system includes a modeling component and a simulation component. The modeling component models a quantum device element of a quantum computing device as an electromagnetic circuit element to generate electromagnetic circuit data for the quantum computing device. The simulation component simulates the quantum computing device using the electromagnetic circuit data to generate response function data indicative of a response function for the quantum computing device. Additionally or alternatively, a Hamiltonian is constructed based on the response function.

^ Bibliography

^ Figure (14)



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/Semantic_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.



Quick Search Advanced Search **Semantic Search** Number Search Search History

Settings

Please enter text in English to start your query.

Semantic Search

App. Date Customized yyyy-mm-dd ~ yyyy-mm-dd

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 Date
 - 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 **Semantic Search**.
5. The results of your search will be displayed as seen below:

The screenshot shows the search results page for the query "semantic natural language processing". The interface includes a sidebar with keywords "natural (188)" and "seman (88)", a main results area with two patent entries, and a bottom navigation bar with "Prev", "1", and "Next" buttons.

1. Method and device for semantic analysis of natural language
PGPub - Granted
Patent No.: CN103268313A
Pub./Issue Date: 2013-08-27
App. No.: 201310190366.5
App. Date: 2013-05-20
Assignee: Beijing Yunzhi Information Technology Co., Ltd.
Applicant: Beijing Yunzhi Information Technology Co., Ltd.
Inventor: Liu Shengping
Simple Family:
Quality: B
Value: A

2. METHOD AND SYSTEM FOR NATURAL LANGUAGE PROCESSING
Abandoned Appl.
Patent No.: JP2005-324713A
(特開平05-324713)
Pub./Issue Date: 1993-12-06
App. No.: H04-152946
(特願平04-152946)
App. Date: 1992-05-19
Assignee: Hitachi Ltd.
Applicant: Hitachi Ltd.
Inventor: Masahiko Kawai, Kazuo Yamada, Masahiko Kawai, Kazuo Yamada
Simple Family:
Quality: A
Value: D

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.

PS

Semantic Search semantic natural language processing Search Save

Keywords (2) 300 records

Select a Keyword Set Clear All

natural (68) Clear All

semanti (99)

+ Add new keyword

1 ★ Method and device for analysis of natural language

PGPub - Granted

Patent No.: CN103268313A Assignee: Applicant: Inventor:

Updated : 2013-08-27 ♦ Orig. Assignee: 北京云知声信息技术有限公司 刘升平

Pub./Issue Date: 2013-08-27 ♦ Orig. Assignee (STD):

Appl. No.: 201310190366.5 BEIJING UNISOUND IN...

Appl. Date: 2013-05-20

The invention provides a method and device for a analysis of a natural language. When a received natural language corresponds to at least two lexemes in a preset data base, a lexeme of the natural language a history analytic result. In other words, the history analytic result serves as reference, and the lexeme of a current natural language is analyzed. Generally, the use habit of a user has continuity. Therefore, the purpose of user can be reflected through the history analytic result. Therefore, when the natural language corresponds to more than one lexeme, instead of only dependi...

More Like

2 METHOD AND SYSTEM FOR NATURAL LANGUAGE PROCESSING

Abandoned Appl.

Patent No.: JPH05-324713A Assignee: Applicant: Inventor:

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.

PS

Semantic Search semantic natural language processing Search Save

Keywords (2)

Select a Keyword Set Clear All

natural (68) Clear All

semanti (99)

+ Add new keyword

1 ★ Method and device for analysis of natural language

PGPub - Granted

Patent No.: CN103268313A Assignee: Applicant: Inventor:

Updated : 2013-08-27 ♦ Orig. Assignee: 北京云知声信息技术有限公司 刘升平

Pub./Issue Date: 2013-08-27 ♦ Orig. Assignee (STD):

Appl. No.: 201310190366.5 BEIJING UNISOUND IN...

Appl. Date: 2013-05-20

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.

The screenshot shows the Semantic Search interface with the search term "semantic natural language processing". The Advanced Filter pane on the left includes categories like Patent Office, Patent Type, Assignee/Applicant, etc. The search results pane shows a list of results. The first result is "Method and device for semantic analysis of natural language" (Patent No.: CN103268313A), which is marked as "PGPub - Granted". A red arrow points to the Filter icon in the top toolbar.

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.

The screenshot shows the Semantic Search interface with the search term "semantic natural language processing". The search results are displayed in a table. A red box highlights the Collapse icon in the top toolbar, and a dropdown menu is open showing options: "None", "By Appl. No.", and "By Family". The table shows results for various patent numbers, including CN103268313A, JPH05, CN103, WO2018/157703A1, US20040122653A1, and WO2020/057023A1.

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.

The screenshot shows a patent search interface with the following elements:

- Search Bar:** "Semantic Search" and "semantic natural language processing".
- Keywords (2):** "natural (14)" and "semanti (17)".
- Results Table:**

| # | Patent No. | Title | Legal Status | Curr. Assignee | Curr. Inventor |
|---|---------------|---|-----------------|--------------------------|----------------|
| 1 | CN103268313A | Method and device for semantic analysis of natural language | PGPub - Granted | UNISOUND INTELLIGENT ... | 云知声 |
| 2 | JPH05-324713A | METHOD AND SYSTEM FOR NATURAL LANGUAGE PROCESSING | Abandoned Appl. | HITACHI LTD | 株式会社 |
| 3 | CN103268313B | 一种自然语言的语义解析方法及装置 | Active | UNISOUND INTELLIGENT ... | 云知声 |
- Diagrams:** Each result includes a grid of numbered diagrams (1-7) representing the patent's technical drawings.
- Buttons:** "More Like" buttons are present for each result. A red arrow points to the "More Like" button for the first result.

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

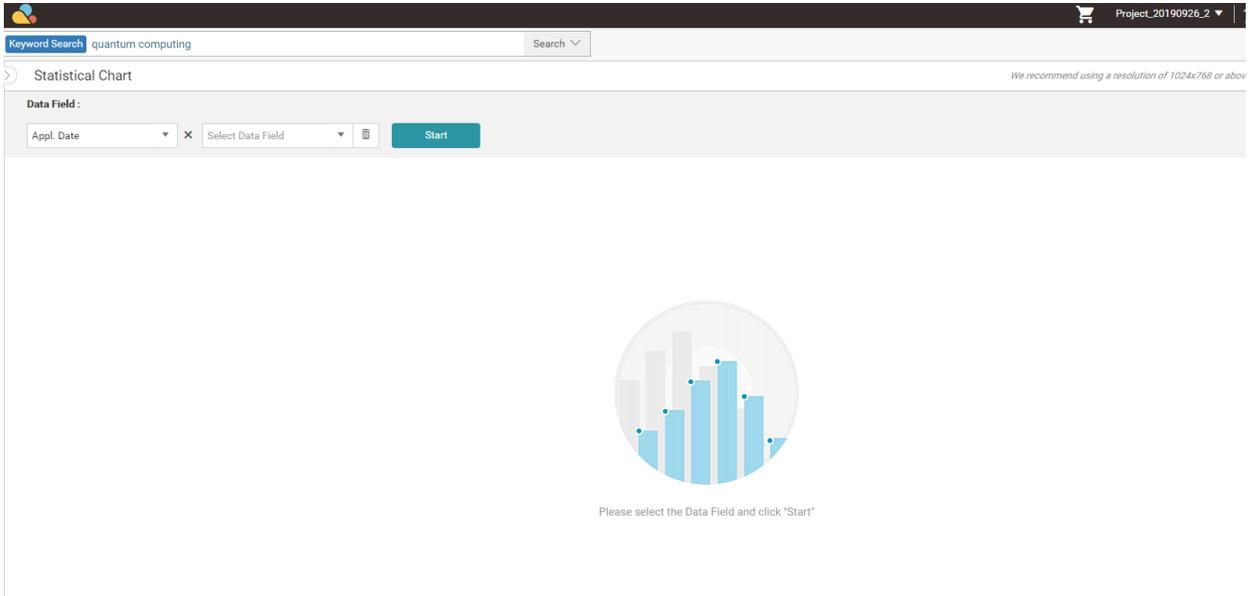
Patent Search offers basic analyses based on a variety of data after queries. To use this statistics feature, follow the steps below:

1. A result is displayed after a data search.

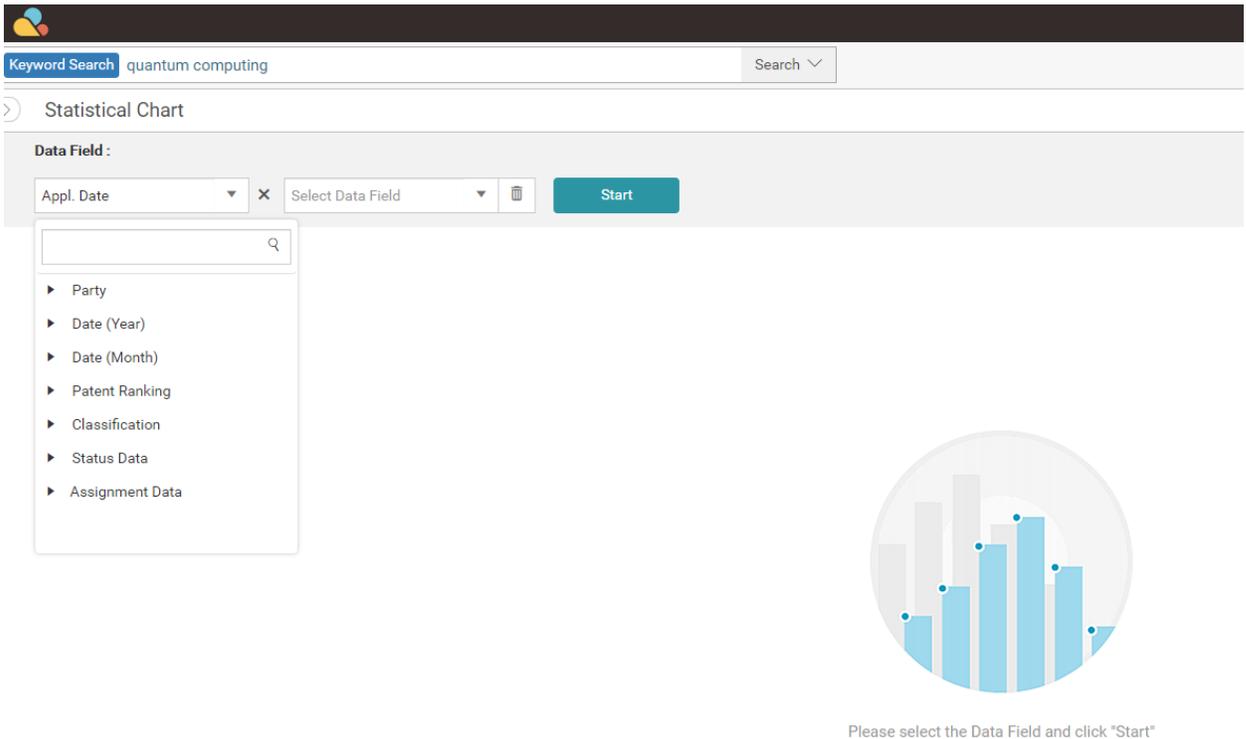
The screenshot shows the Patent Search interface with the search term 'quantum computing'. The search results are displayed in a list format. The first result is titled '1. METHODS OF ADIABATIC COMPUTATION' and the second is '2. DECIMAL FLOATING-POINT EXCEPTION DETECTION'. Each result includes patent details such as Patent No., Pub./Issue Date, Appl. No., and Inventor. The interface also features an 'Advanced Filter' sidebar on the left and a 'Statistical Chart' button in the top navigation bar.

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

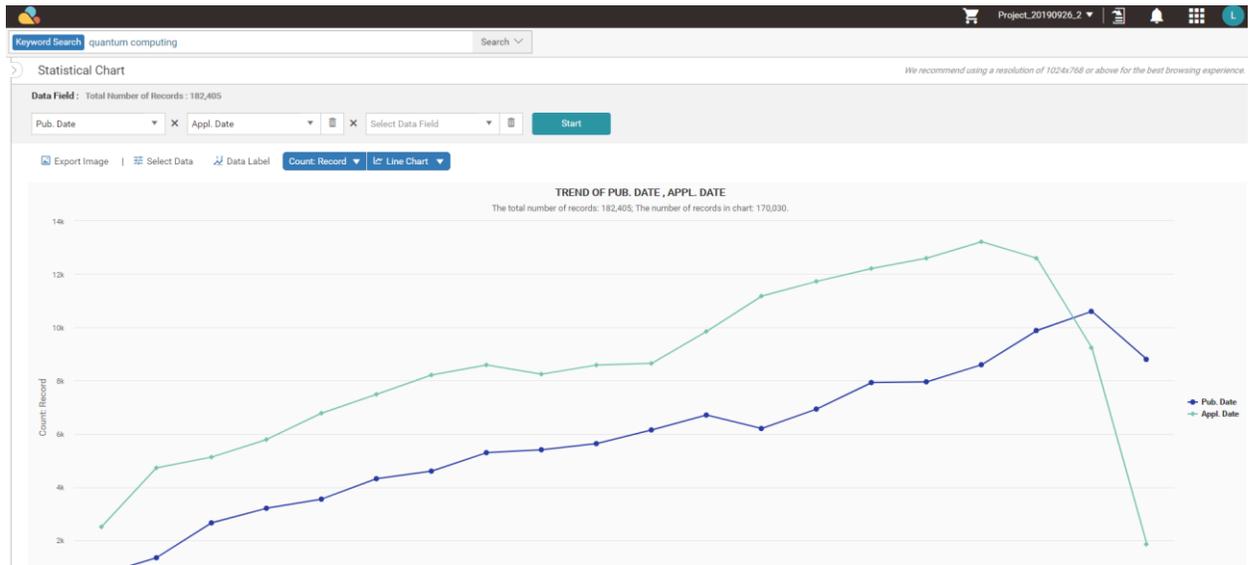
This screenshot is identical to the previous one, but the 'Statistical Chart' button in the top navigation bar is highlighted with a red box, indicating the next step in the process.



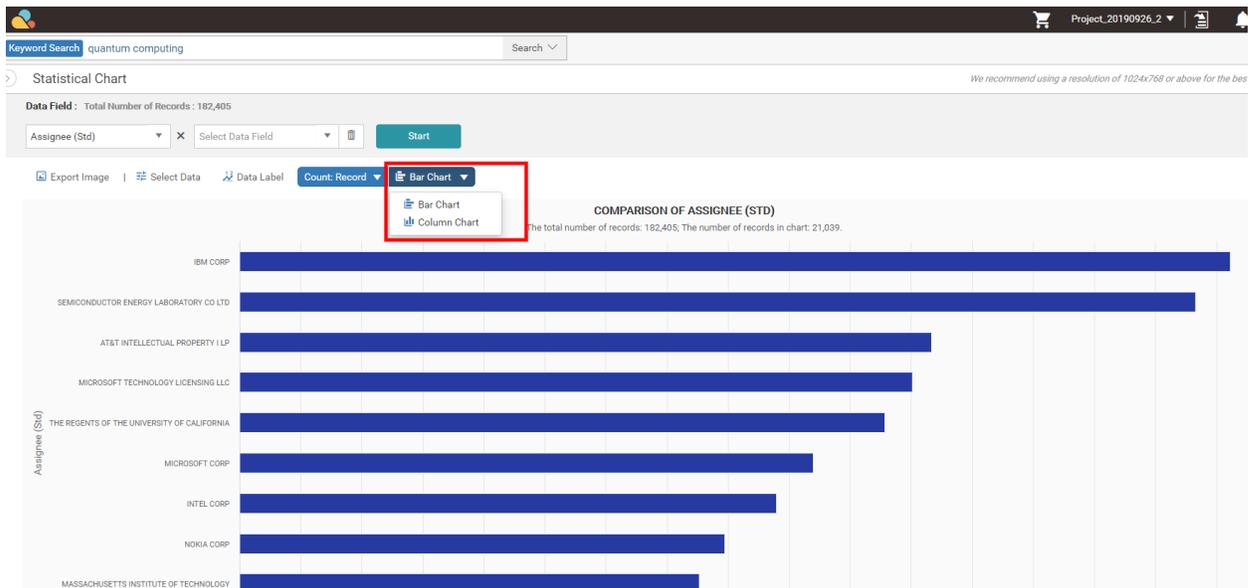
3. In the **Data Field** section, you will see a drop-down menu. Use the drop-down menu to view the data fields you can select for a statistical chart to be based upon.



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



- 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.



- 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 .

- 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

Statistical Chart

We recommend using a resolution of 1024x768

Data Field: Total Number of Records: 182,405

Assignee (Std) x Select Data Field Start

Export Image Select Data Data Label Count: Record Bar Chart

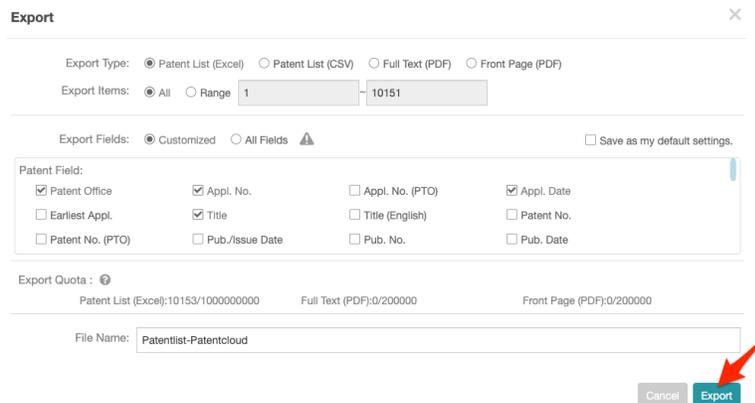


Export, Import, Save & Add

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 |
| Tag | | | Y |
| 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.

Export ✕

Export Type: Patent List (Excel) Patent List (CSV) Full Text (PDF) Front Page (PDF)

Export Items: All Range -

Export Options: Representative Patent Only ?

Export Fields: Customized All Fields ! Save as my default settings.

Patent Field:

| | | | |
|---|---|--|--|
| <input checked="" type="checkbox"/> Patent Office | <input checked="" type="checkbox"/> Appl. No. | <input type="checkbox"/> Appl. No. (PTO) | <input checked="" type="checkbox"/> Appl. Date |
| <input type="checkbox"/> Earliest Appl. | <input checked="" type="checkbox"/> Title | <input type="checkbox"/> Title (English) | <input type="checkbox"/> Patent No. |
| <input type="checkbox"/> Patent No. (PTO) | <input type="checkbox"/> Pub./Issue Date | <input type="checkbox"/> Pub. No. | <input type="checkbox"/> Pub. Date |

Export Quota: ?

Patent List (Excel):10153/100000000 Full Text (PDF):0/200000 Front Page (PDF):0/200000

File Name:

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

PS Keyword Search TAC("smoke detector") Save

Advanced Filter

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

Filter

3. MULTIPURPOSE ELECTRICAL FIXTURES

| | | | |
|--|-----------------------------|-------------|----------------|
| Patent No.: US2020083718A1 | Assignee: | Applicant: | Inventor: |
| Pub./Issue Date: 2020-03-12 | • Original: 286 Two LLC | 286 Two LLC | Paul Amelio |
| Appl. No.: 16/679853 | • Standardized: 286 TWO LLC | | Alfonso Amelio |
| Appl. Date: 2019-11-11 | | | David Katz |

A multipurpose electrical assembly is provided that includes a module receiving an alternating current from a power source in a ceiling and converting the alternating current source to a direct current source. The multipurpose surface for connecting to the assembly and receiving electrical power from a preceding device and a second connector on a second opposing surface for receiving a following device to be connected to the assembly and attaches...

Multipurpose electrical fixtures

| | | | |
|--|-----------------------------|-------------|----------------|
| Patent No.: US10476276B2 | Assignee: | Applicant: | Inventor: |
| Pub./Issue Date: 2019-11-12 | • Original: 286 Two LLC | 286 Two LLC | Paul Amelio |
| Appl. No.: 15/633712 | • Standardized: 286 TWO LLC | | Alfonso Amelio |
| Appl. Date: 2017-06-26 | | | David Katz |

A multipurpose electrical assembly is provided that includes a module receiving an alternating current from a power source in a ceiling and converting the alternating current source to a direct current source. The multipurpose surface for connecting to the assembly and receiving electrical power from a preceding device and a second connector on a second opposing surface for receiving a following device to be connected to the assembly and attaches...

Multipurpose Electrical Fixtures

| | | | |
|---|-----------------------------|----------------|----------------|
| Patent No.: US20170373507A1 | Assignee: | Applicant: | Inventor: |
| Pub./Issue Date: 2017-12-28 | • Original: PAUL AMELIO | Paul Amelio | Paul Amelio |
| Appl. No.: 15/633712 | • Standardized: PAUL AMELIO | Alfonso Amelio | Alfonso Amelio |
| Appl. Date: 2017-06-26 | | David Katz | David Katz |

A multipurpose electrical assembly is provided that includes a module receiving an alternating current from a power source in a ceiling and converting the alternating current source to a direct current source. The multipurpose surface for connecting to the assembly and receiving electrical power from a preceding device and a second connector on a second opposing surface for receiving a following device to be connected to the assembly and attaches...

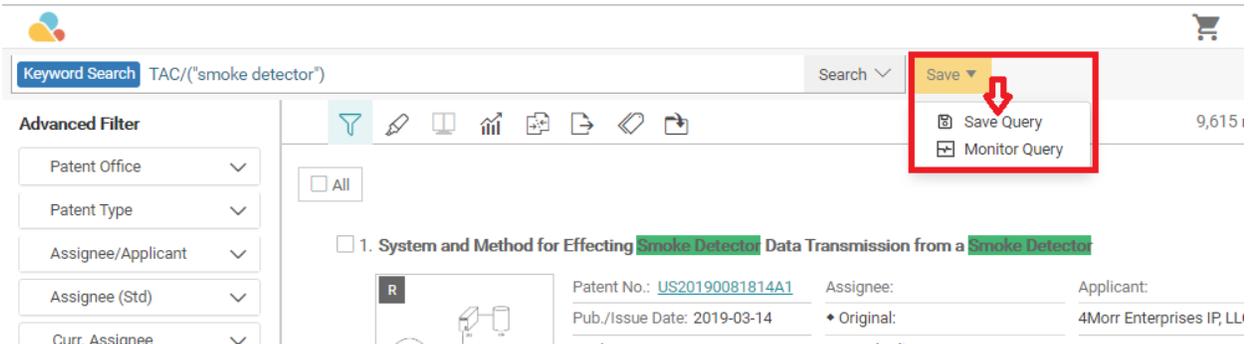
MULTIPURPOSE ELECTRICAL FIXTURES

| | | | |
|---|---------------------------|---------------|---------------|
| Patent No.: WO2017/223571A1 | Assignee: | Applicant: | Inventor: |
| Pub./Issue Date: 2017-12-28 | • Original: AMFI IO, Paul | AMFI IO, Paul | AMFI IO, Paul |

Prev 1 2 3 4 5 6 7 8 9 10 ... Next

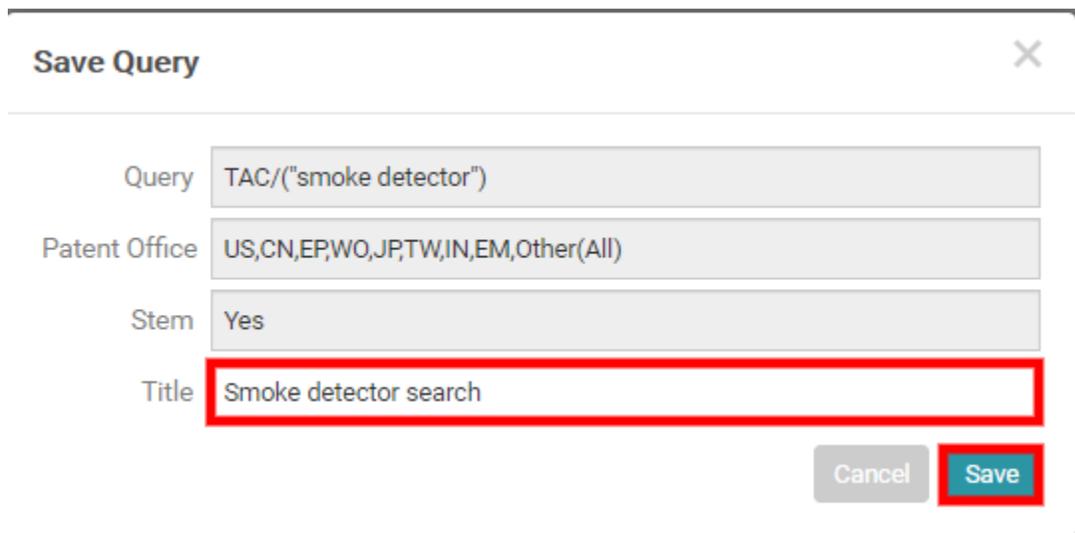
Save Query

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



The screenshot shows a search interface with a search box containing the query "TAC/("smoke detector")". To the right of the search box is a "Save" dropdown menu. A red box highlights the "Save" dropdown, and a red arrow points to the "Save Query" option within it. Below the search box, there is an "Advanced Filter" section with several dropdown menus for "Patent Office", "Patent Type", "Assignee/Applicant", "Assignee (Std)", and "Curr. Assignee". To the right of the filters, there is a list of search results. The first result is titled "1. System and Method for Effecting **Smoke Detector** Data Transmission from a **Smoke Detecto**". Below the title, there is a patent number "US20190081814A1", a publication/issue date of "2019-03-14", and an assignee of "4Morr Enterprises IP, LL".

Assign a title to your saved query.



The screenshot shows a "Save Query" dialog box. It has a title bar with "Save Query" and a close button. The dialog contains four input fields: "Query" with the value "TAC/("smoke detector")", "Patent Office" with the value "US,CN,EP,WO,JP,TW,IN,EM,Other(All)", "Stem" with the value "Yes", and "Title" with the value "Smoke detector search". The "Title" field is highlighted with a red box. At the bottom right of the dialog, there are two buttons: "Cancel" and "Save".

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

Recent **Saved**

Export Delete Combine Searches

| <input type="checkbox"/> | Code | Type | Title | Query | Details | Result | Time Created | Patent Office | Operation |
|--------------------------|------|----------------|-----------------------|------------------------|---------|--------|------------------|------------------------------------|-----------|
| <input type="checkbox"/> | S1 | Keyword Search | smoke detector search | TAC/("smoke detector") | | 9,615 | 2019-09-28 00:20 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |

1 / 1 10 Items Per Page

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

Recent Saved

Export Delete Combine Searches

| <input checked="" type="checkbox"/> | Code | Type | Title | Query | Details | Result | Time Created | Patent Office | Operation |
|-------------------------------------|------|----------------|-----------------------|------------------------|---------|--------|------------------|------------------------------------|-----------|
| <input checked="" type="checkbox"/> | S1 | Keyword Search | smoke detector search | TAC/("smoke detector") | | 9,615 | 2019-09-28 00:20 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |

1 / 1 10 Items Per Page

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).

Recent Saved

Export Delete Combine Searches

| <input type="checkbox"/> | Code | Type | Title | Query | Details | Result | Time Created | Patent Office | Operation |
|--------------------------|------|----------------|--------------------------|---------------------------|---------|---------|------------------|------------------------------------|-----------|
| <input type="checkbox"/> | S3 | Keyword Search | smoke detector search | TAC/("smoke detector") | | 9,615 | 2019-09-28 00:20 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |
| <input type="checkbox"/> | S2 | Keyword Search | quantum computing search | TAC/("quantum computing") | | 2,068 | 2019-09-27 23:56 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |
| <input type="checkbox"/> | S1 | Keyword Search | LED light search | TAC/("LED light") | | 112,490 | 2019-09-27 20:53 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |

Apply

Recent Saved

Export Delete Combine Searches

| <input type="checkbox"/> | Code | Type | Title | Query | Details | Result | Time Created | Patent Office | Operation |
|--------------------------|------|----------------|--------------------------|---------------------------|---------|---------|------------------|------------------------------------|-----------|
| <input type="checkbox"/> | S3 | Keyword Search | smoke detector search | TAC/("smoke detector") | | 9,615 | 2019-09-28 00:20 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |
| <input type="checkbox"/> | S2 | Keyword Search | quantum computing search | TAC/("quantum computing") | | 2,068 | 2019-09-27 23:56 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |
| <input type="checkbox"/> | S1 | Keyword Search | LED light search | TAC/("LED light") | | 112,490 | 2019-09-27 20:53 | US,CN,EP,WO,JP,TW,IN,EM,Other(All) | |

Monitor Query

PS

Keyword Search TAC/("smoke detector") Save

Advanced Filter

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

3. MULTIPURPOSE ELECTRICAL FIXTURES

Patent No.: [US20200083718A1](#) Assignee: 286 Two LLC Applicant: 286 Two LLC Inventor: Paul Amelio
 Pub./Issue Date: 2020-03-12 Original: 286 Two LLC Alfonso Amelio
 Appl. No.: 16/679853 Standardized: 286 TWO LLC David Katz
 Appl. Date: 2019-11-11

A multipurpose electrical assembly is provided that includes a module receiving an alternating current from a power source in a ceiling and converting the alternating current source to a direct current source. The multipurpose surface for connecting to the assembly and receiving electrical power from a preceding device and a second connector on a second opposing surface for receiving a following device to be connected to the assembly and attaches...

Multipurpose electrical fixtures

Patent No.: [US10478276B2](#) Assignee: 286 Two LLC Applicant: 286 Two LLC Inventor: Paul Amelio
 Pub./Issue Date: 2019-11-12 Original: 286 Two LLC Alfonso Amelio
 Appl. No.: 15/633712 Standardized: 286 TWO LLC David Katz
 Appl. Date: 2017-06-26

A multipurpose electrical assembly is provided that includes a module receiving an alternating current from a power source in a ceiling and converting the alternating current source to a direct current source. The multipurpose surface for connecting to the assembly and receiving electrical power from a preceding device and a second connector on a second opposing surface for receiving a following device to be connected to the assembly and attaches...

Multipurpose Electrical Fixtures

Patent No.: [US20170373507A1](#) Assignee: PAUL AMELIO Applicant: David Katz Inventor: Paul Amelio
 Pub./Issue Date: 2017-12-28 Original: PAUL AMELIO Alfonso Amelio
 Appl. No.: 15/633712 Standardized: PAUL AMELIO David Katz David Katz
 Appl. Date: 2017-06-26

A multipurpose electrical assembly is provided that includes a module receiving an alternating current from a power source in a ceiling and converting the alternating current source to a direct current source. The multipurpose surface for connecting to the assembly and receiving electrical power from a preceding device and a second connector on a second opposing surface for receiving a following device to be connected to the assembly and attaches...

MULTIPURPOSE ELECTRICAL FIXTURES

Patent No.: [WO2017/223571A1](#) Assignee: AMF I/O, Paul Applicant: AMF I/O, Paul Inventor: AMF I/O, Paul
 Pub./Issue Date: 2017-12-28 Original: AMF I/O, Paul

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1. **System and Method for Effecting Data Transmission from a Smoke Detector**

Patent No.: [US20130081814A1](#) Assignee: 4Morr Enterprises IP, LLC Applicant: 4Morr Enterprises IP, LLC Inventor: Michael Orr
 Pub./Issue Date: 2019-03-14 Original: 4Morr Enterprises IP, LLC
 Appl. No.: 16/130923 Standardized: 4MORR ENTERPRISES IP ...
 Appl. Date: 2018-09-13

A system and method for effecting data transmission from a smoke detector is described herein. The system can comprise a smoke detection system, a memory and a network interface. The memory can comprise a smoke detection application. The microprocessor can, according to instructions from the smoke detection application, operate as a node in a mesh network of a local area network and sending the network data across the local area network. Moreover, according to the instructions from the smoke detection application, the microprocessor can receive smoke alarm data from the smoke detector.

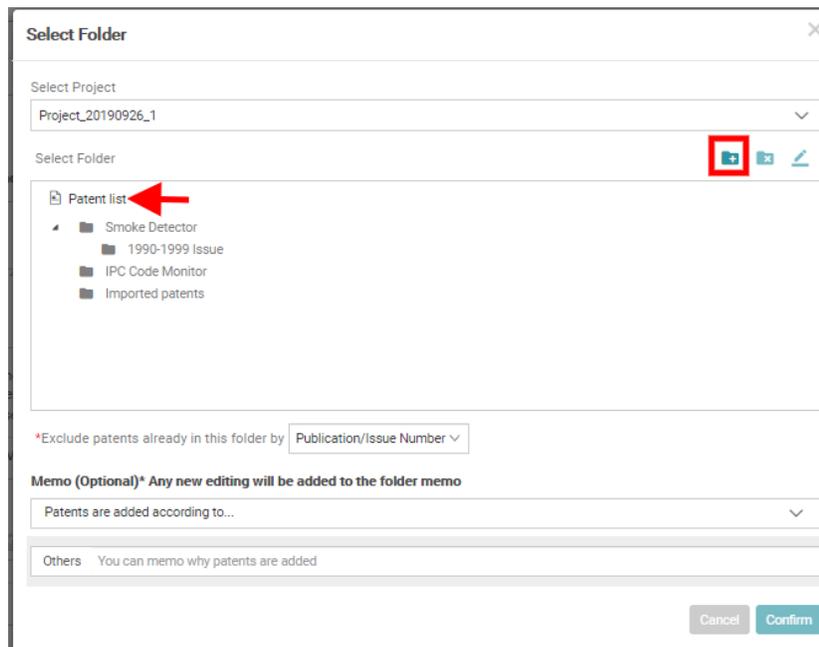
2. **Smoke Detector Methods And Systems**

Patent No.: [US20180308346A1](#) Assignee: Siemens Schweiz AG Applicant: Siemens Schweiz AG Inventor: Martin Allemann
 Pub./Issue Date: 2018-10-25 Original: Siemens Schweiz AG Erwin Suter
 Appl. No.: 15/955969 Standardized: SIEMENS SCHWEIZ AG Thomas Bachels
 Appl. Date: 2018-04-18 Aleksandar Duric

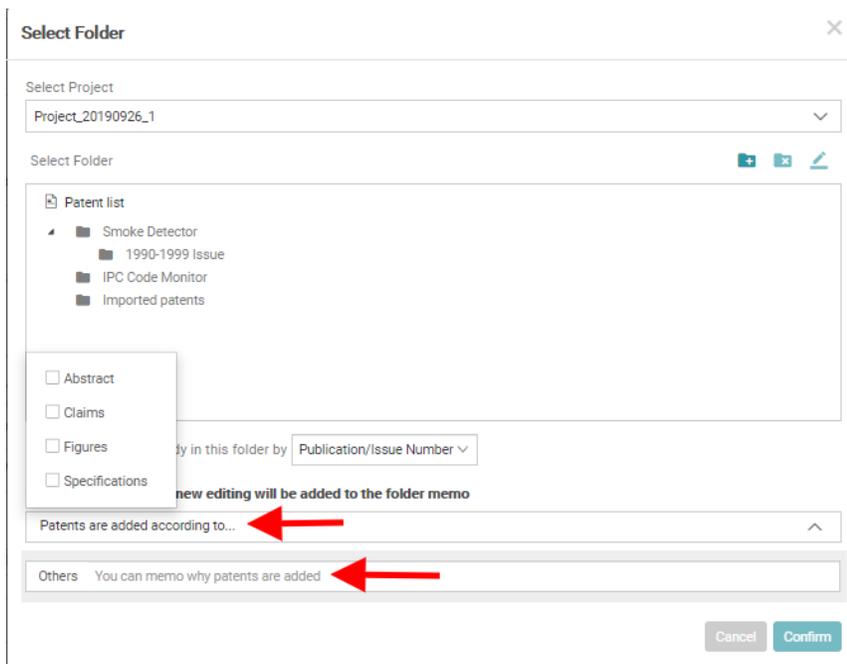
The present disclosure relates to smoke detectors. Various embodiments may include a method for adjusting a smoke detector (adjustment method) and a device executing the method for adjusting a smoke detector. For example, a method for automatically adjusting a smoke detector may include: placing the smoke detector in a channel; placing a reference smoke detector into the channel; applying a flowing aerosol gathering data from the reference smoke detector; reflecting the flowing aerosol; and adjusting the smoke detector based on the data gathered from the reference detector.

3. **Intelligent Smoke Detector**

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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.



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| # | Patent No. | Title | Pub./Issue Date |
|----|--------------|--|-----------------|
| 1 | HUT46728A | SMOKE DETECTOR | 1988-11-28 |
| 2 | HUT46797A | OPTICAL DEVICE FOR SMOKE DETECTORS | 1988-11-28 |
| 3 | IES940134A2 | Smoke detector | 1994-05-18 |
| 4 | IES6002082 | Smoke detector | 1994-05-18 |
| 5 | USRE33920 | Smoke detector having variable level sensitivity | 1992-05-12 |
| 6 | USRE32105 | Forward scatter smoke detector | 1986-04-01 |
| 7 | AUPN809696D0 | Relocation of battery and test switch from battery operated smoke detector | 1996-03-07 |
| 8 | AUPN365995D0 | Smoke detector operated isolating switch | 1995-07-13 |
| 9 | AUPM733494D0 | Smoke detector activated lift of window roller shutters | 1994-09-01 |
| 10 | AUPM679594D0 | Smoke detector activated automatic lift of window roller shutters | 1994-08-04 |
| 11 | JPH08284301A | CEILING APPARATUS UNIT | 1996-10-29 |
| 12 | JPH08284290A | OFFICE STRUCTURE | 1996-10-29 |
| 13 | JPH08202970A | METHOD FOR SETTING UP OPTIMUM THRESHOLD OF HIGHLY SENSITIVE SMOKE DETECTOR | 1996-08-09 |
| 14 | JPH08202969A | METHOD FOR DETECTING DETERIORATION OF SCATTERED LIGHT TYPE SMOKE DETECTOR | 1996-08-09 |
| 15 | JPH08201263A | SMOKE DETECTOR | 1996-08-09 |
| 16 | JPH08201246A | OPTIMUM ARRANGEMENT OF SAMPLING PIPE FOR HIGH-SENSITIVITY SMOKE DETECTOR | 1996-08-09 |
| 17 | JPH08182162A | METHOD FOR CONNECTING WIRING OF CEILING APPARATUS | 1996-07-12 |
| 18 | JPH08180277A | ELECTRONIC APPARATUS ABNORMALITY DETECTION AND DISPLAY DEVICE | 1996-07-12 |

January 21, 2021