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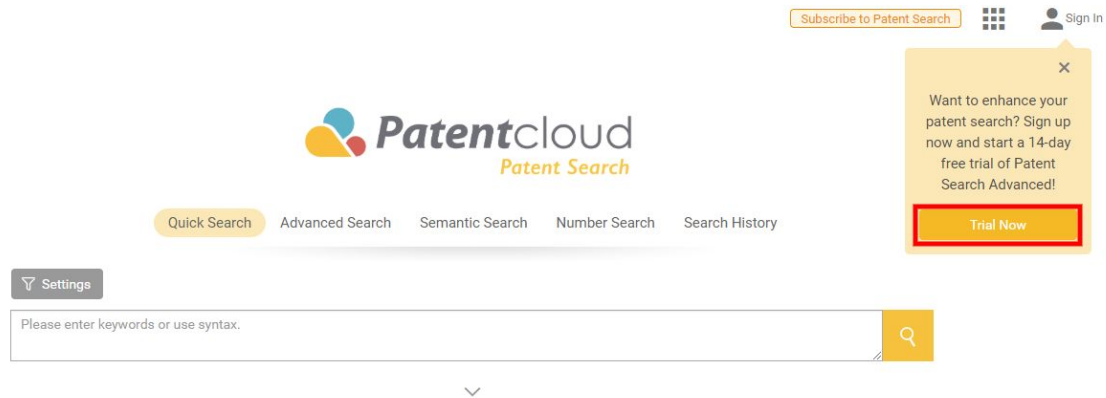
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Registration&Subscription

Account Registration/ Maintenance

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



Fill out the form as seen below. Enter your:

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

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

Sign Up

Email*

Password*

Confirm Password*

First Name*






Last Name*

ⓘ Please review and confirm Patentcloud's [Terms of Service](#), [User Privacy Policy](#) (GDPR)

☐ I have read and agree with the above terms

Or

Sign in With:

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

Please Verify Your Account

Congratulations! Your account has been created.

A verification email has been sent to:

patent@inquartik.com

Please follow the instructions in the verification email to finish creating your Patentcloud account.

Check your email (or spam folder) for an account activation email with the subject **"Patentcloud Email Confirmation"**.

If you can't find the email, click here to resend:

Resend Verification Email

Return to Patentcloud

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

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


The screenshot shows a welcome email from InQuartik. The header features the InQuartik logo. The body of the email greets William Kao and thanks him for signing up. It describes Patentcloud as a patent intelligence platform using AI and big data. Three main products are highlighted: Quality Insights (QI), Patent Search (PS), and Design Search (DS). Each product has a brief description of its capabilities. At the bottom, there is a call to action to activate the account and start a 14-day free trial of Patent Search Premium, with an 'Activate My Account' button. The footer contains links for Contact Us, Terms of Service, Privacy Policy, Facebook, LinkedIn, and About Us, along with copyright information for 2019 InQuartik Co. Limited.

iN InQuartik

Hello William Kao


Thank you for signing up with Patentcloud!

Patentcloud is a patent intelligence platform that leverages artificial intelligence (AI) and big data technology to deliver meaningful information and actionable insights with three main products:




Quality Insights

Unearth the quality and validity of a patent in one click



Patent Search

Access key patent information with this cutting-edge patent search solution



Design Search

Perform an advanced design patent search to unleash your design power

Now, it's your turn to explore Patentcloud! Click on the button below to activate your account and start your 14-day free trial of Patent Search Premium!

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

Account Activation Successful.

Your account has been activated.

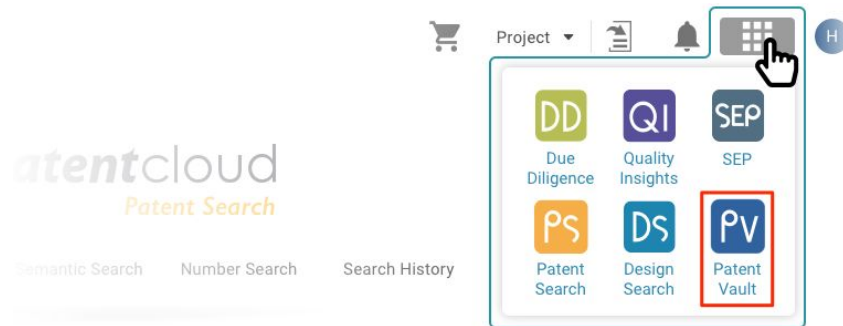
You may now sign in and get started with Patentcloud!

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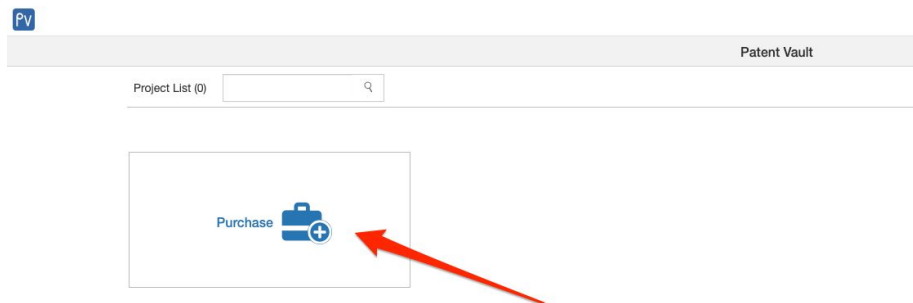
Patent Vault Subscription

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

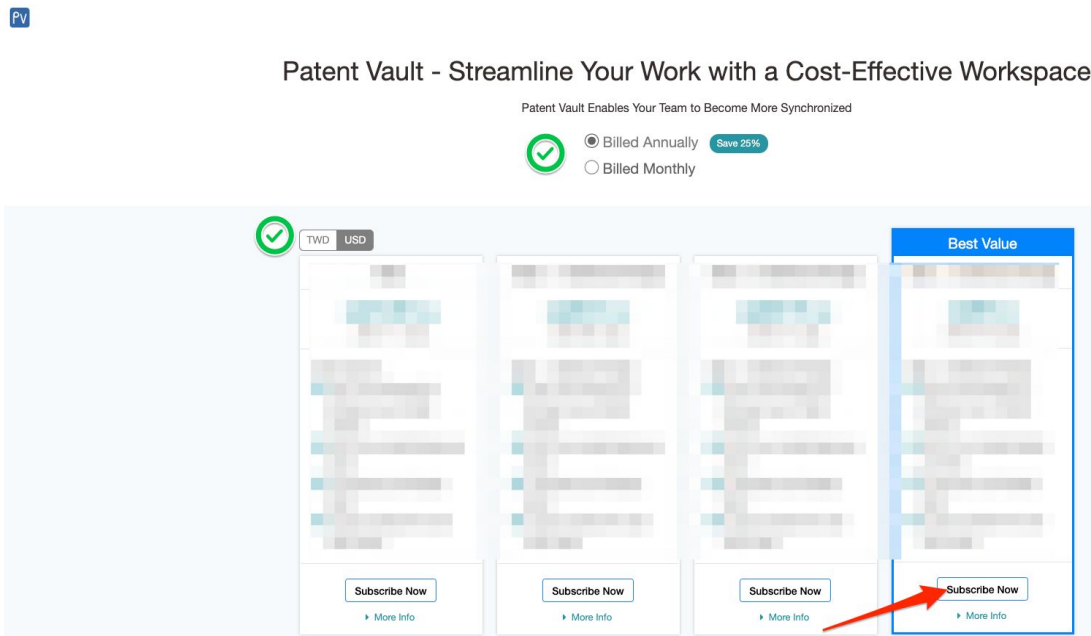
1. Sign in to your account.
2. Select Patent Vault from the Product Menu.



3. Click on Purchase.



4. The pricing page will be displayed. Select the billing period that you wish to use - Annually or Monthly. Then, select your currency and choose the plan that you wish to purchase. Click on Subscribe Now to proceed.



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

1 ————— **2** ————— **3**
ORDER DETAILS **PAYMENT** **ORDER SUMMARY**

Hi, [redacted]@inquantik.com)

TWD USD

Product Details		Price
PV	Patent Vault	
Patent Vault	Maximum (Yearly)	US\$ [redacted]
Coupon Code :		Amount US\$ [redacted]
<input type="text"/>		Tax US\$0
<input type="button" value="Submit"/>		Total US\$ [redacted]

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

☒ Credit Card ☐ Alipay

Credit Card

Credit Card

After the transaction has been completed, you will be able to use the product until the end of the subscription period.

Invoice Information

Name (Personal/Corporation Name)*

Address Line 1*

Address Line 2

State

Zip Code

Country*

Other information to be presented.

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

Terms of Service

Last Updated: October 16, 2018

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Last Modified: August 1, 2017

InQuartik respects the privacy of visitors and users of our websites. We recognize the need for appropriate protections, and we are committed to protecting the personal information that you provide to us. InQuartik has therefore established this Privacy Policy to assist you to understand what information we collect and how that information is used. This Privacy Policy applies to data collected by InQuartik Corporation. And its related entities through the patentcloud.com ("Patentcloud") website and other webpages which we operate.

☒ I have read and agree to the policy mentioned above.

1. If you are a subscription-based (ie. PS, DS, PV) customer, you will receive a renewal email six (6) days before the initial subscription period ends. Unless you notify us that you want to cancel or do not wish to auto-renew, you agree and authorize InQuartik to automatically charge your credit card for the next subscription period three (3) days prior to the expiry date.

2. Please ensure the pricing plan you selected includes the features you need. To check the list of features, please visit [InQuartik home page](#) and check the correspondence pricing page for more details. Or simply send an email to our Client Success Specialist through support@inquartik.com.

Back

Order Completion

8. Congratulations! You now have a Patent Vault subscription. Click on Start Now to access your project.

1 2 3

ORDER DETAILS PAYMENT ORDER SUMMARY

Order Number 20200828000001

PV Patent Vault

Patent Vault	Basic (Yearly)	US\$
		Subtotal US\$
		Tax US\$0
Total		US\$

A separate invoice for this order will be available in your account on the next business day.

Start Now

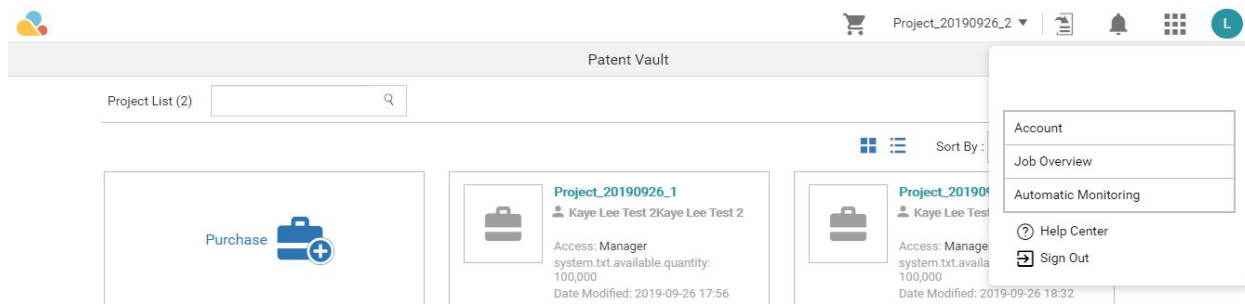
Refunds and Returns

Please note that there are **no refunds** for the Patent Vault subscriptions.

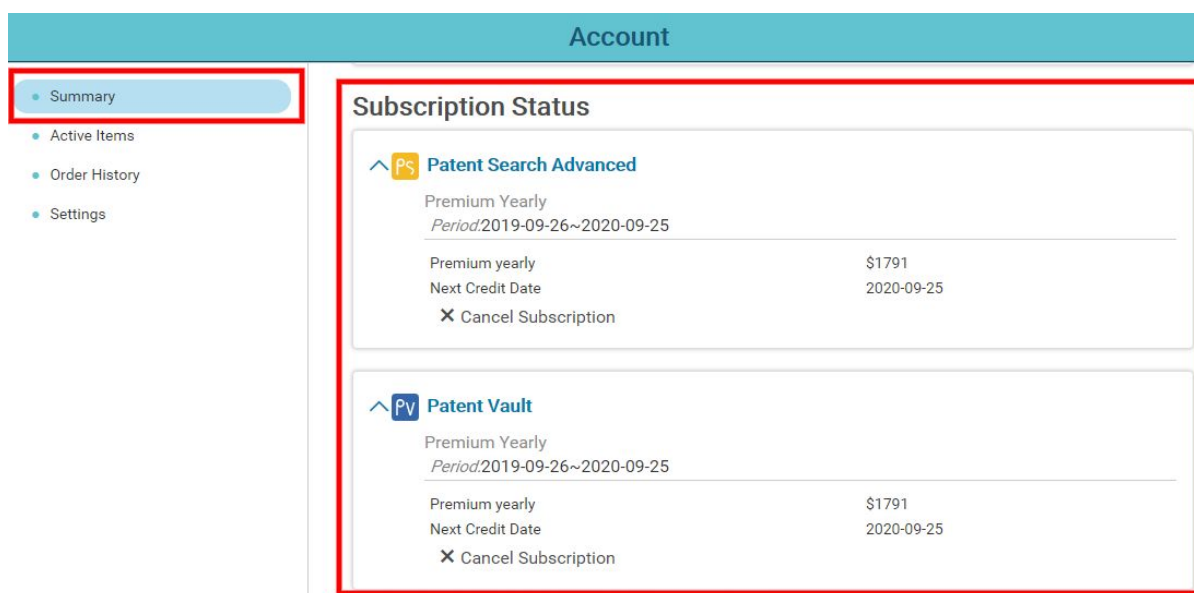
Purchase History

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

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



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

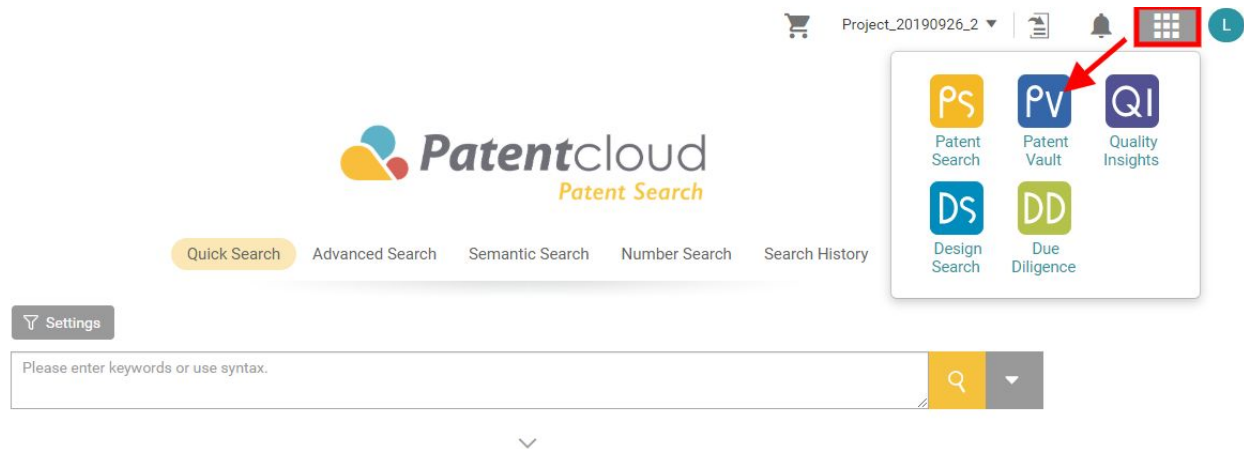


What is a Project?

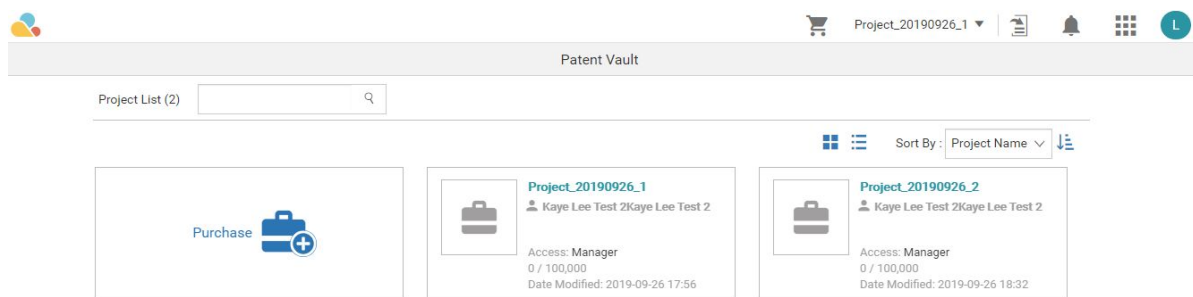
A project is essentially a user's patent database, which uses a tree-shaped structure for patent classification and organization. Purchasing Patent Search Premium entitles you to one (1) project in Patent Vault with a storage capacity of 100,000 patents. Similarly, you can subscribe to Patent Vault with four different plans that best-fit your needs for storage sizes.

Project List

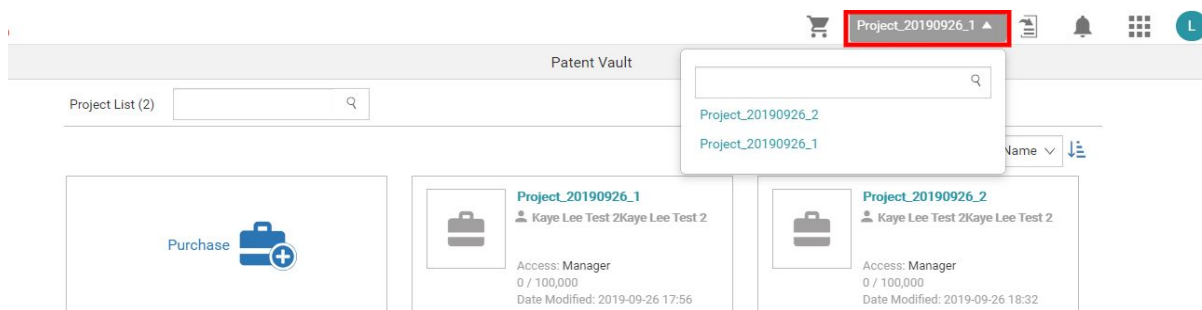
If you have multiple projects in your Patent Vault, you can access this by clicking on the grid icon and selecting Patent Vault.




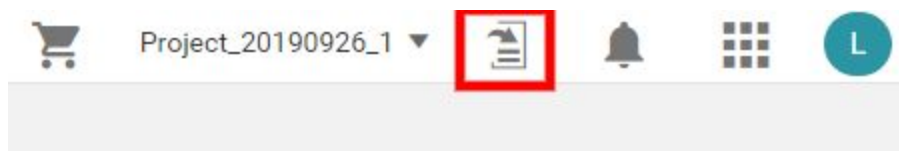
You can then choose from your Project List or purchase more projects on this webpage.



Another method is to click on the dropdown list beside the Shopping Cart icon found on the upper right side of the page to select the project you want to use.





For those with only one project in their Patent Vault, you can click on the  icon found on the upper right side of the page to access it.



Once you are on the Project List page, you can see all of the projects currently available to you. Each box shows basic information including access level and members.


The project manager has the following project controls:

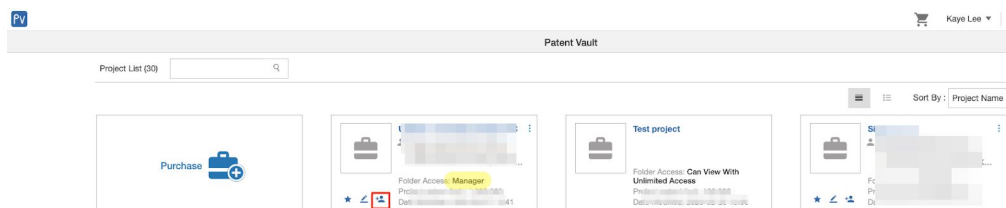


	Edit basic information: Project Name and Memo
	Add or delete Patentcloud members, change access levels, assign notifications

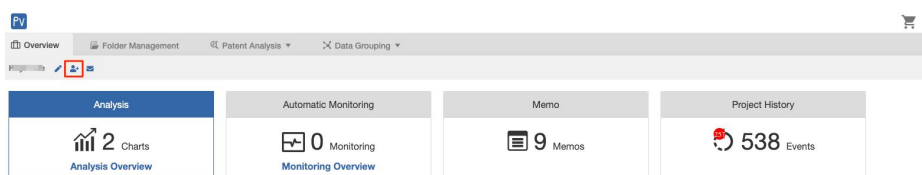
Collaboration Management

NOTE: This feature requires Manager level Folder Access.

In the Project List view, choose the project that you want to use and click on the Member icon  to open the Collaboration Management window.



In the Overview tab, the Member icon is in the upper right corner.



[Add/Delete Members](#)

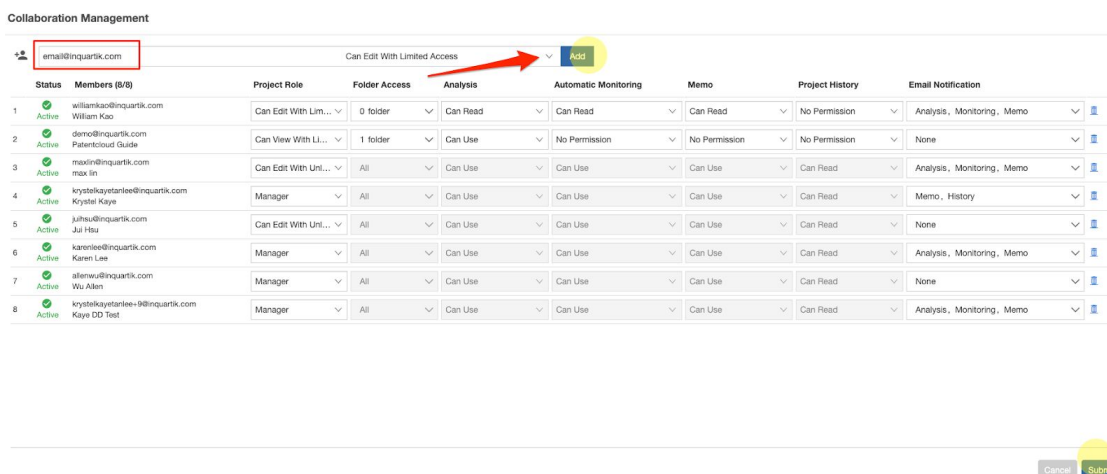
[Change Folder Access](#)

[Change Feature Access](#)

[Change Notification Setting](#)

[Add/Delete Members](#)

To add a new member, enter a valid email address and initially set the Project Role. Then, click on Add.



There are five options for Project Role:

Manager	can add/delete/edit members, role, access level, notification setting can add/delete/edit all folders and folder contents can use all features
Can Edit with Unlimited Access	can add/delete/edit all folders and folder contents feature access depends on what the Manager has set
Can Edit with Limited Access	can add/delete/edit assigned folders and folder contents feature access depends on what the Manager has set
Can View with Unlimited Access	can view all folders and folder contents feature access depends on what the Manager has set
Can View with Limited Access	can view assigned folders and folder contents feature access depends on what the Manager has set

Once done adding members, click on Submit.

The invitees will receive an email notification from InQuartik. When they click on the link in the email invite, the Status in Collaboration Management will change from “Send” to “Active”.

	<input type="text" value="email@in quartik.com"/>	Can Edit With Limited Access	<button>Add</button>					
Status	Members (8/9)	Project Role	Folder Access	Analysis	Automatic Monitoring	Memo	Project History	Email Notification
1 	 W D P r m K J Ju Ku K al W K K	Can Edit With Lim...	0 folder	Can Read	Can Read	Can Read	No Permission	Analysis, Monitoring, Memo
2 		Can View With Li...	1 folder	Can Use	No Permission	No Permission	No Permission	None
3 		Can Edit With Unl...	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
4 		Manager	All	Can Use	Can Use	Can Use	Can Read	Memo, History
5 		Can Edit With Unl...	All	Can Use	Can Use	Can Use	Can Read	None
6 		Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
7 		Manager	All	Can Use	Can Use	Can Use	Can Read	None
8 		Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
9 	email@in quartik.com	Can Edit With Lim...	0 folder	Can Read	Can Read	Can Read	No Permission	Analysis, Monitoring, Memo

FAQ: *Project invitee did not receive an email invitation*

To delete a member, click on the Delete icon in Collaboration Management. A prompt to confirm will appear, click on Confirm. Then, click on Submit for this change to take effect.

The deleted member will not receive any email notification.

Change Feature Access

Feature Access is independent of Folder Access. This is a project-level setting.

There are 3 permission options:

Can Use not applicable for Project History	Unlimited access and can create
Can Read	View access and cannot create
No Permission	No access at all

To change feature access, the project Manager can go to Collaboration Management and click on the dropdown for each feature (Analysis, Automatic Monitoring, Memo, Project History). Then, click on Submit.

Collaboration Management

Enter email to invite to join the project Can Edit With Limited Access Add

Status	Members (8/8)	Project Role	Folder Access	Analysis	Automatic Monitoring	Memo	Project History	Email Notification
1 Active	V	Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
2 Active	C	Can View With Li...	3 folders	Can Use	No Permission	No Permission	No Permission	None
3 Active	n	Can Edit With Unl...	All	No Permission	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
4 Active	k	Manager	All	Can Use	Can Use	Can Use	Can Read	Memo, History
5 Active	J	Can Edit With Unl...	All	Can Use	Can Use	Can Use	Can Read	None
6 Active	k	Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
7 Active	a	Manager	All	Can Use	Can Use	Can Use	Can Read	None
8 Active	k	Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo

Cancel Submit

Change Notification Setting

There are 4 types of email notification triggers: Analysis, Monitoring, Memo and History.

Every project member can change his/her own notification setting. The project Manager can set for all members and override individual members' settings.

Manager view

Go to Collaboration Management and click on the dropdown for Email Notification. Then, click on Submit.

Collaboration Management

Enter email to invite to join the project Can Edit With Limited Access Add

Status	Members (8/8)	Project Role	Folder Access	Analysis	Automatic Monitoring	Memo	Project History	Email Notification
1 Active		Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
2 Active		Can View With Li...	3 folders	Can Use	No Permission	No Permission	No Permission	None
3 Active		Can Edit With Unl...	All	Can Use	Can Use	Can Use	Can Read	<input type="checkbox"/> Analysis <input type="checkbox"/> Monitoring <input type="checkbox"/> Memo <input type="checkbox"/> History
4 Active		Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
5 Active		Can Edit With Unl...	All	Can Use	Can Use	Can Use	Can Read	None
6 Active		Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo
7 Active		Manager	All	Can Use	Can Use	Can Use	Can Read	None
8 Active		Manager	All	Can Use	Can Use	Can Use	Can Read	Analysis, Monitoring, Memo


Cancel Submit

Member view

In the Overview tab, click on the mail icon . Select which notifications to enable then click on Submit.

PV

Overview Folder Management Patent Analysis

Kaye Lee 

Analysis

2 Charts

Analysis Overview

Chart: 2

No. Titles Type Folder/Dimensions Count Memo

1.	U		ogles	419 (Records)	
2.	C		2019 e tatus	2273 (Records)	

Project Email Notification

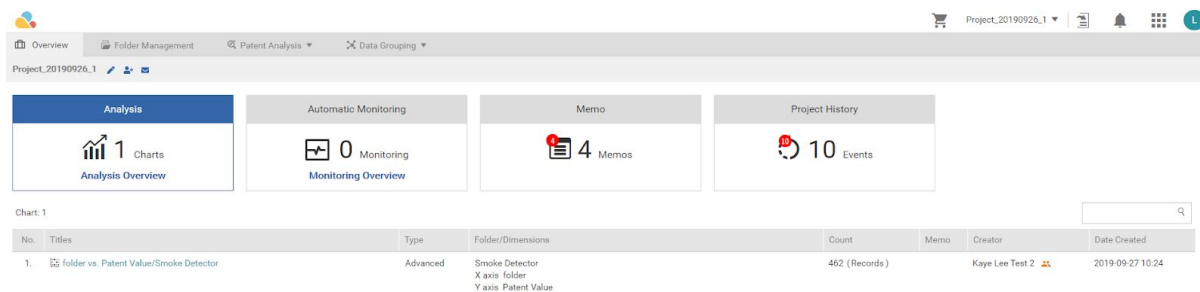
Project Name Email Notification

None

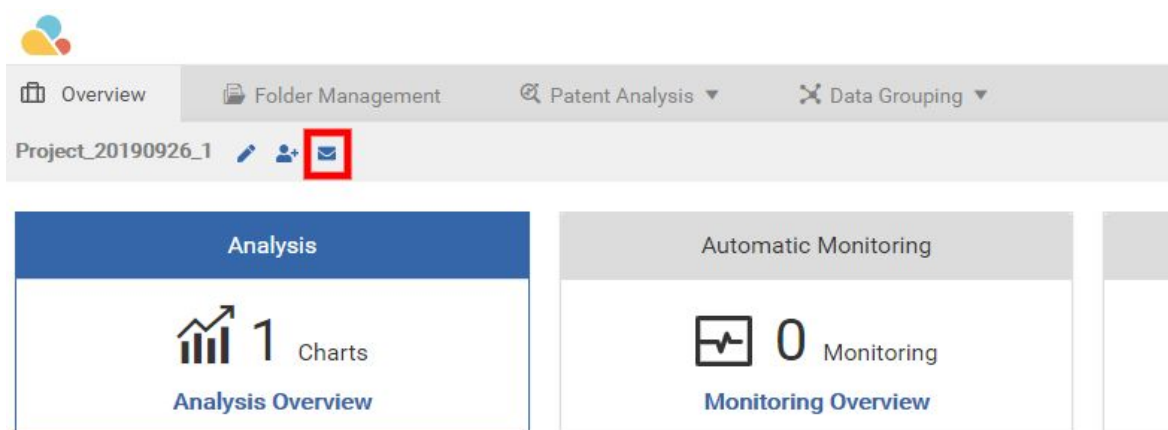
☐ Analysis
☐ Monitoring
☐ Memo
☐ History

Overview Page

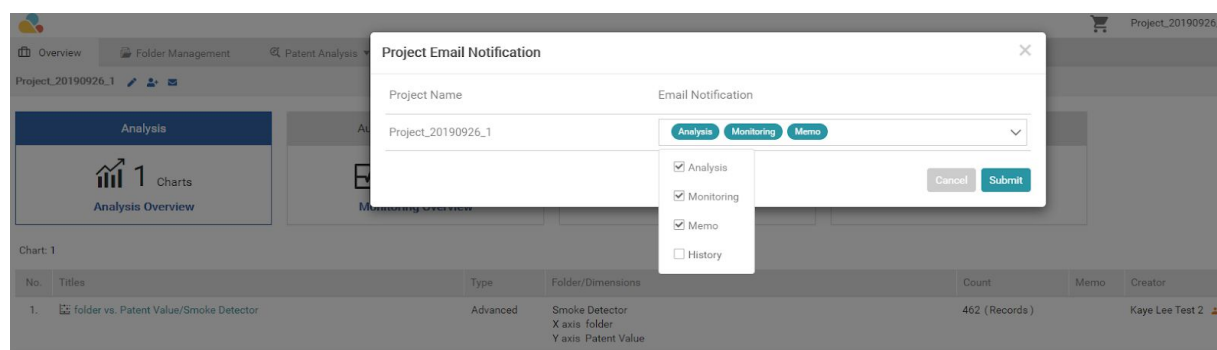
Select and click on any of your projects on the Project List to go to its Overview page. Once Patentcloud members, whether they are PS Basic, Advanced, or Premium members, have been invited, they can view, edit or manage (depending on the access level) the project contents including Analysis charts, Automatic Monitoring, Memos, and Project History. **Non-PS subscribers can view only.**



To stay updated on new changes, members can personalize their own Project Notification settings by clicking on the mail icon.




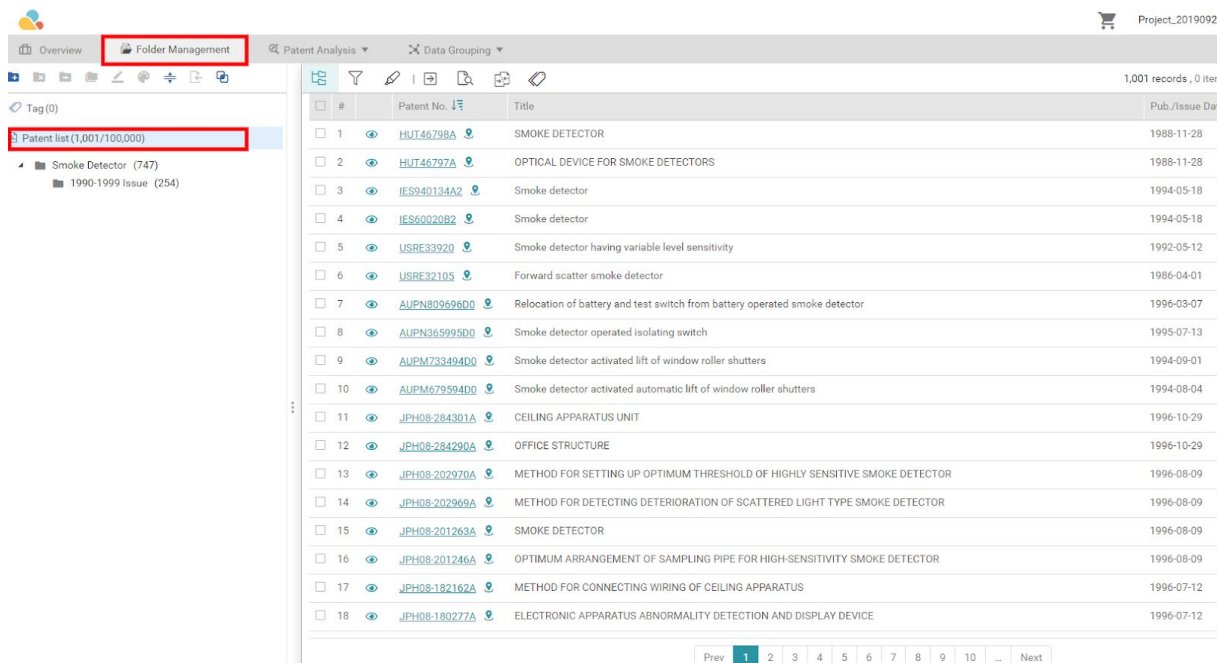
Select different Email Notification types from the drop-down list and tick or untick the checkboxes as needed. Then, click Submit.



Folder Management

Folder Management shows all your folders, its subfolders, and the corresponding patents.

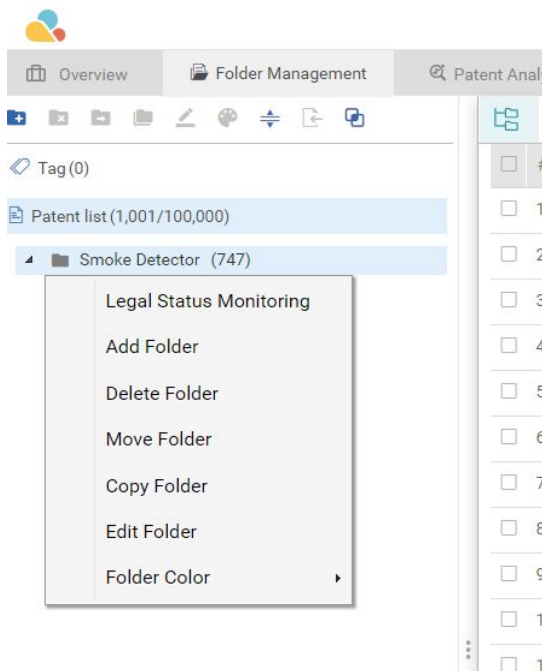
The root folder () is called **Patent list** and the number beside it shows the count of unique patents you have stored in your account against the capacity of your Patent Vault project. The same patent or publication number saved in multiple folders will only be recorded as one (1) unique patent in your total.



The screenshot shows the 'Folder Management' tab in the application. On the left, a sidebar displays the folder hierarchy: 'Patent list (1,001/100,000)' and 'Smoke Detector (747)' with a subfolder '1990-1999 Issue (254)'. The main area shows a table of 18 patents. The table has columns for '#', 'Patent No.', 'Title', and 'Pub./Issue Date'. The patents listed are:

#	Patent No.	Title	Pub./Issue Date
1	HUT46798A	SMOKE DETECTOR	1988-11-28
2	HUT46797A	OPTICAL DEVICE FOR SMOKE DETECTORS	1988-11-28
3	IES940134A2	Smoke detector	1994-05-18
4	IES60020B2	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	JPH08-284301A	CEILING APPARATUS UNIT	1996-10-29
12	JPH08-284290A	OFFICE STRUCTURE	1996-10-29
13	JPH08-202970A	METHOD FOR SETTING UP OPTIMUM THRESHOLD OF HIGHLY SENSITIVE SMOKE DETECTOR	1996-08-09
14	JPH08-202969A	METHOD FOR DETECTING DETERIORATION OF SCATTERED LIGHT TYPE SMOKE DETECTOR	1996-08-09
15	JPH08-201263A	SMOKE DETECTOR	1996-08-09
16	JPH08-201246A	OPTIMUM ARRANGEMENT OF SAMPLING PIPE FOR HIGH-SENSITIVITY SMOKE DETECTOR	1996-08-09
17	JPH08-182162A	METHOD FOR CONNECTING WIRING OF CEILING APPARATUS	1996-07-12
18	JPH08-180277A	ELECTRONIC APPARATUS ABNORMALITY DETECTION AND DISPLAY DEVICE	1996-07-12

Select any folder under **Patent list** and right-click to see the commands as shown below.












The screenshot shows the 'Folder Management' tab with the 'Smoke Detector (747)' folder selected. A right-click context menu is displayed over the folder, showing the following options:

- Legal Status Monitoring
- Add Folder
- Delete Folder
- Move Folder
- Copy Folder
- Edit Folder
- Folder Color

1. **Legal Status Monitoring:** This tracks the status changes of the patents in this folder.
2. **Add Folder:** This adds a subfolder from the folder name you have selected and right-clicked on. Click on the triangle arrow beside the selected folder to show the subfolder you have added.
3. **Delete Folder:** This deletes the selected folder. Click on Confirm to execute.
4. **Move Folder:** This moves the folder and its contents to another folder. Click on Confirm to execute.
5. **Copy Folder:** This copies the selected folder to another folder.
6. **Edit Folder:** This renames the selected folder. Press Enter on your keyboard to execute.
7. **Folder Color:** This applies a color to your folder icons to quickly distinguish them. This is limited to four (4) choices.

Select any folder under your Patent list and access these different Folder Management functionalities as shortcuts.

	Add folder
	Delete folder
	Move folder to another project or as a sub-folder to another folder
	Copy folder to another project or as a sub-folder to another folder
	Edit folder name
	Change folder color
	Expand/Collapse the folder tree structure
	Import patents to this folder via Excel template
	Folder combination

If you click the **Folder Combination** button, you can create a combined folder either by union or intersection.

Overview

Folder Combination

Patent Analysis

Data Grouping

Tag (0)

Patent list (1,001/100,000)

Smoke Detector (747)

1990-1999 Issue (254)

#	Patent No.	Title
1	HUT46798A	SMOKE DETECTOR
2	HUT46797A	OPTICAL DEVICE FOR SMOKE DETECTORS
3	IES940134A2	Smoke detector
4	USRE32105	Forward scatter smoke detector
5	AUPN809696D0	Relocation of battery and test switch from battery operated smoke detector
6	AUPN365995D0	Smoke detector operated isolating switch
7	AUPM733494D0	Smoke detector activated lift of window roller shutters
8	AUPM679594D0	Smoke detector activated automatic lift of window roller shutters
9	JPH08-284301A	CEILING APPARATUS UNIT
10	JPH08-284290A	OFFICE STRUCTURE
11	JPH08-202970A	METHOD FOR SETTING UP OPTIMUM THRESHOLD OF HIGHLY SENSITIVE SMOKE DETECTOR
12	JPH08-202969A	METHOD FOR DETECTING DETERIORATION OF SCATTERED LIGHT TYPE SMOKE DETECTOR
13	JPH08-201263A	SMOKE DETECTOR
14	JPH08-201246A	OPTIMUM ARRANGEMENT OF SAMPLING PIPE FOR HIGH-SENSITIVITY SMOKE DETECTOR
15	JPH08-182162A	METHOD FOR CONNECTING WIRING OF CEILING APPARATUS

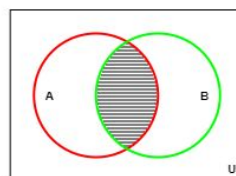
You can select 2 or 3 folders to create a combined folder by union or intersection.

Create a Combined Folder by Union or Intersection

Source A: Smoke Detector > 1990-1999 Issue [Clear](#)

Source B: Smoke Detector [Clear](#)

Source C: [Select Folder](#)



Select Regions: AB

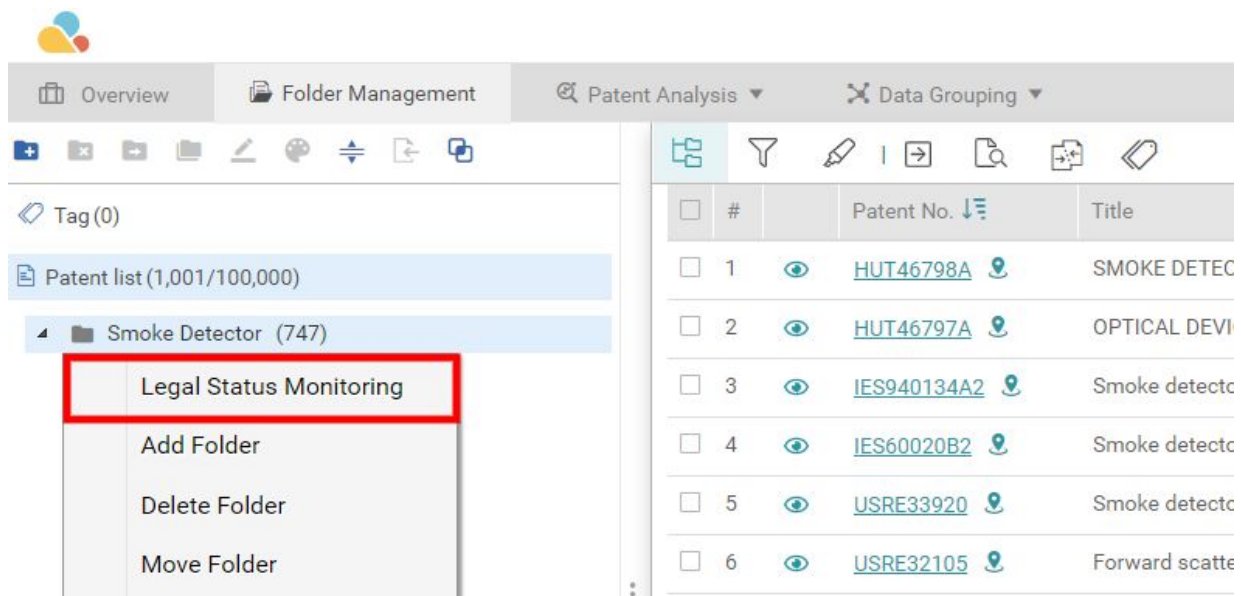
Cancel

Confirm

Legal Status Monitoring

As legal status is essential to your search, use Legal Status Monitoring to track the status changes of your selected patents. For Premium users and Patent Vault subscribers only, this function allows you to receive email and system alerts when there are developments from pending, active, or inactive status.

1. To get started, go to your Project list and select the folder you want to use this function on.
2. To add Legal Status Monitoring, go to Folder Management and simply right click on the folder you want to apply this to.



3. Create your settings as necessary.

The 'Legal Status Monitoring' configuration dialog is shown. It includes fields for Title, Frequency (Monthly), and Legal Status (Pending, Active, Inactive). The 'Legal Status' field is set to 'Pending' with options EXAM, GRNT, ABAN. The 'Active' status has options REVK, EXPR, LAPS. The 'Inactive' status has option ACT. There are 'Apply to Subfolders', 'Cancel', and 'Save' buttons at the bottom.

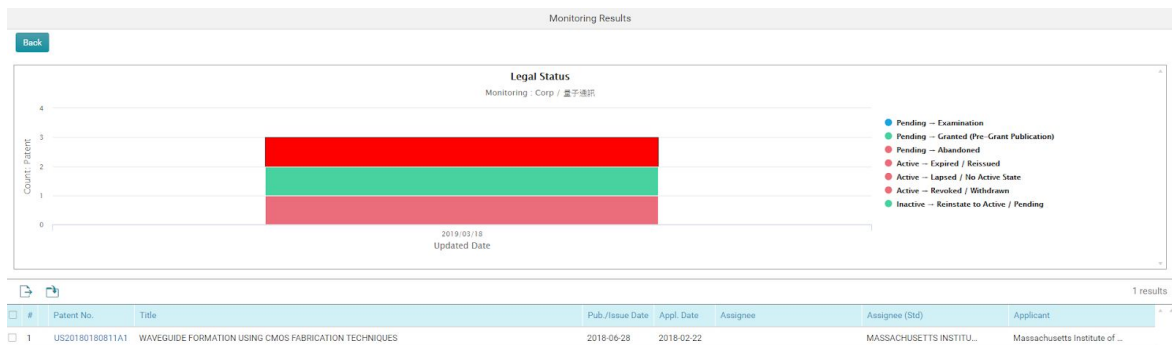
You can filter the legal status process of the patents to fine-tune your monitoring. The picture above is the default setting. You can edit the legal status to your preferred setting, for example from Pending → Abandoned and pull out patents that match the status you set up.

4. Easy Tracking of Updates at a Glance: Click **Monitoring Overview** in automatic monitoring tab to check out the legal status changes.

5. Then, the overview of legal status will appear.

Monitoring Overview allows you to check which patents have been updated in terms of the legal status. Any updates to the patents are represented by green and grey; green represents new status updates and grey represents non-new status updates.

6. Click on Legal Status to view a summary of changes in chart form.



- → Examination
- → Granted (Pre-Grant Publication)
- → Abandoned Appl.
- → Expired / Reissued
- → Lapsed / No Active State
- → Revoked / Withdrawn
- → Reinstate to Active / Pending

- → Examination
- → Granted (Pre-Grant Publication)
- → Abandoned Appl.
- → Expired / Reissued
- → Lapsed / No Active State
- → Revoked / Withdrawn
- → Reinstate to Active / Pending

There are the 7 most critical status types during the lifetime of a patent (from inactive to active and vice versa.) Legal Status Monitoring allows you to prepare or make the next move on the patents that you are interested in.

New Patent Monitoring

Query monitoring is available for Patent 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 create Query Monitoring, use Patent Search. To view Query Monitoring results, use Patent Vault.

Creation:

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. On the left is an 'Advanced Filter' sidebar with dropdowns for Patent Office, Patent Type, Assignee/Applicant, Assignee (Std), Curr. Assignee, Inventor, Legal Status, Abandon Type, Quality, and Value. The main search bar contains 'LED light' and a 'Search' button. A 'Save' dropdown menu is open, showing 'Save Query' and 'Monitor Query' options. The search results display a patent entry for 'LED LIGHTING COLUMN AND LED LAMP USING SAME' with the following details:

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

The abstract text below the table reads: '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**.

Recent		Saved						
<input type="checkbox"/>	Code	Type	Query	Details	Result	Time Created	Patent Office	Operation
<input type="checkbox"/>	R14	Keyword Search	LED light		2,207,411	2019-09-27 16:48	US,CN,EP,WO,JP,TW,IN,EM,Other(All)	
<input type="checkbox"/>	R13	Keyword Search	car		1,703,849	2019-09-27 16:44	US,CN,EP,WO,JP,TW,IN,EM,Other(All)	
<input type="checkbox"/>	R12	Keyword Search	PN/(US7777777)		1	2019-09-27 15:28	US,CN,EP,WO,JP,TW,IN,EM,Other(All)	
<input type="checkbox"/>	R11	Semantic Search	led light dog collar for dog night walking		300	2019-09-27 15:27	US,CN,EP,WO,JP,KR	
<input type="checkbox"/>	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

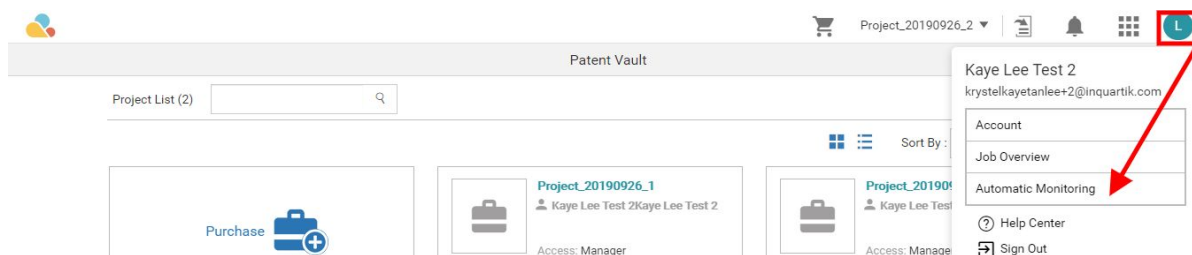
Frequency : Weekly | Monday

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.

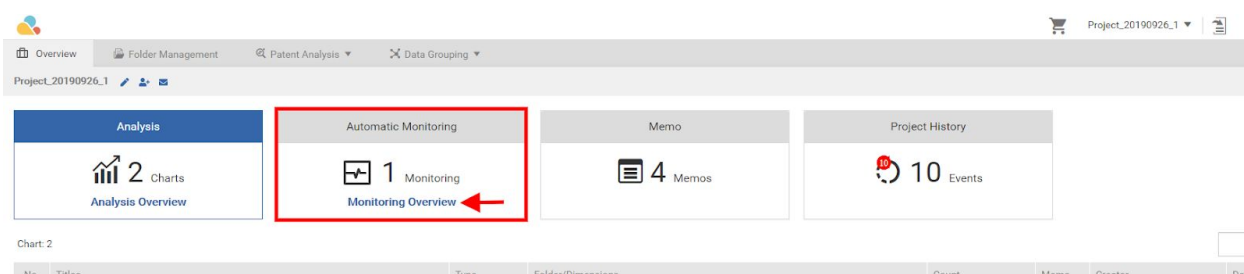
Cancel Save

Viewing:

- 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.



- 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"/>	

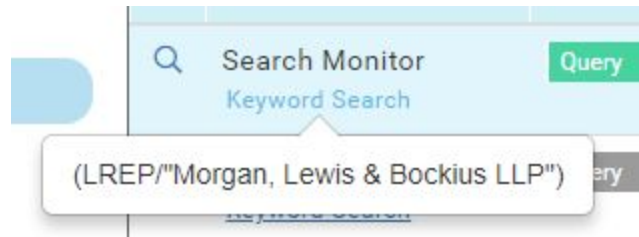
If you add the patents from the search results of the monitoring query to Project, simply click on the folder icon (which is located right next to the update status bar) to access the folder containing the search results.



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

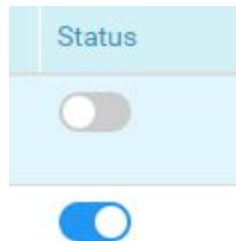
- Quick Search link

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.



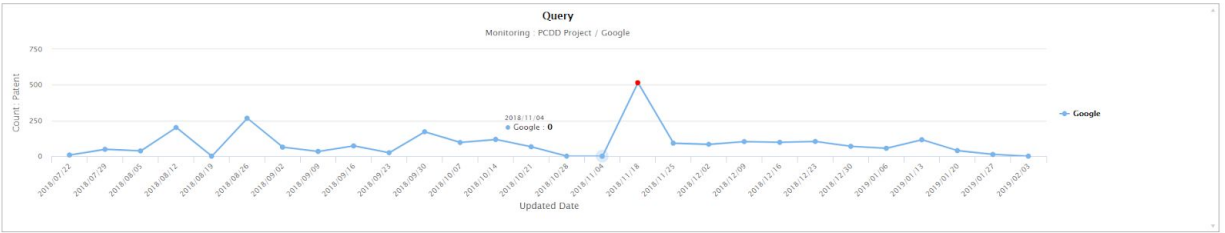
- Status Toggle

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.



515 results

#	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
2	EM005813664-0002	Affichage sur l'écran,interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]	2018-11-15	2018-10-31		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
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
5	EM005814035-0001	Affichage sur l'écran,interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]	2018-11-15	2018-10-31		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
7	EM005814035-0003	Affichages d'écrans d'ordinateurs,interfaces utilisateurs graphiques [affichage sur écran d'ordinateur]	2018-11-15	2018-10-31		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
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
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

Data Search and Filter

View Modes

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

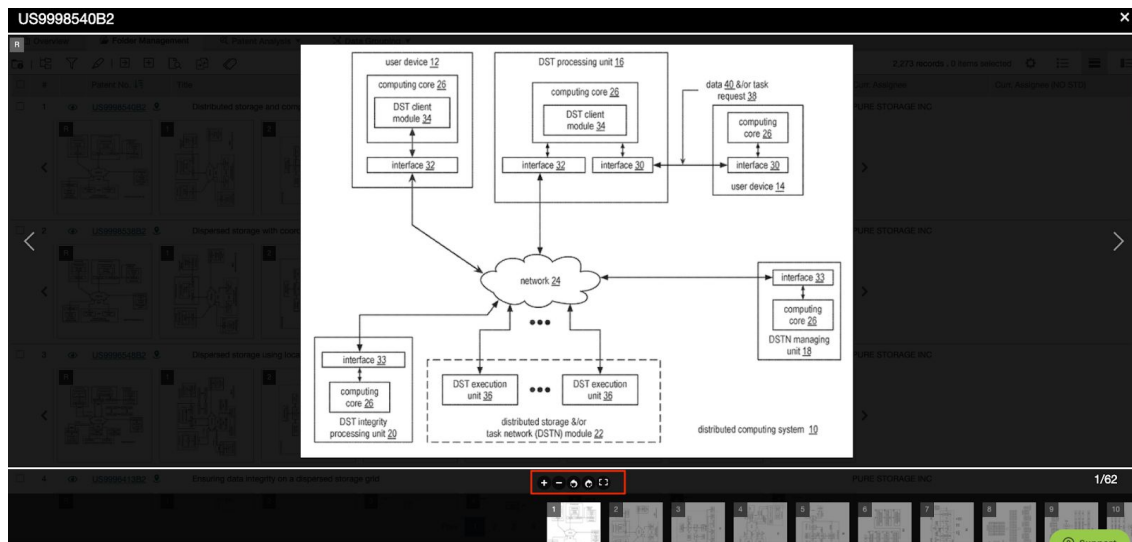


- Gallery Mode  : View all of the patent figures right on the patent list page

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

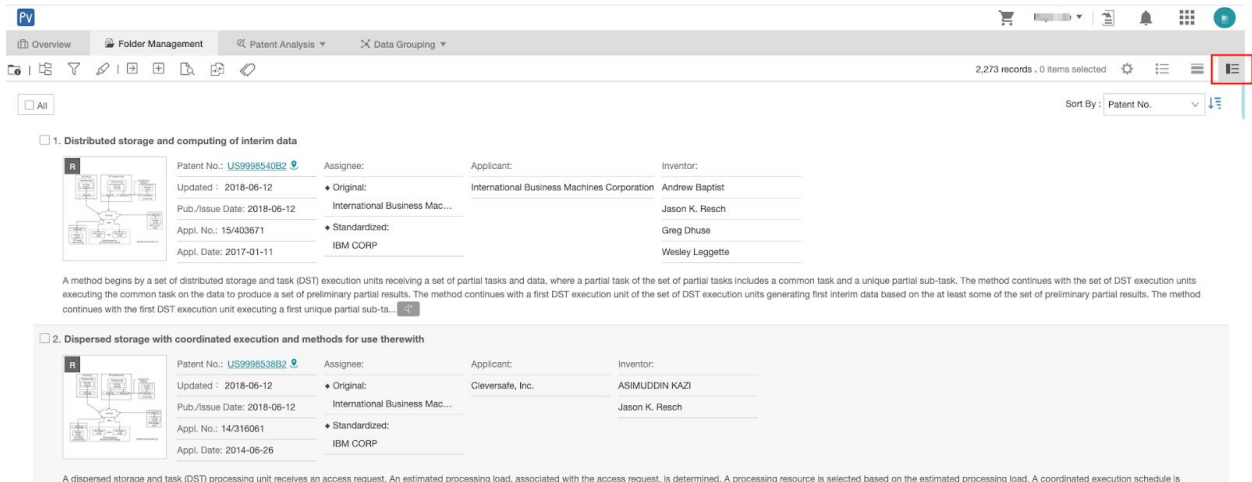


You can click on a patent figure to view available tools such as Zoom In, Zoom Out and Rotate.

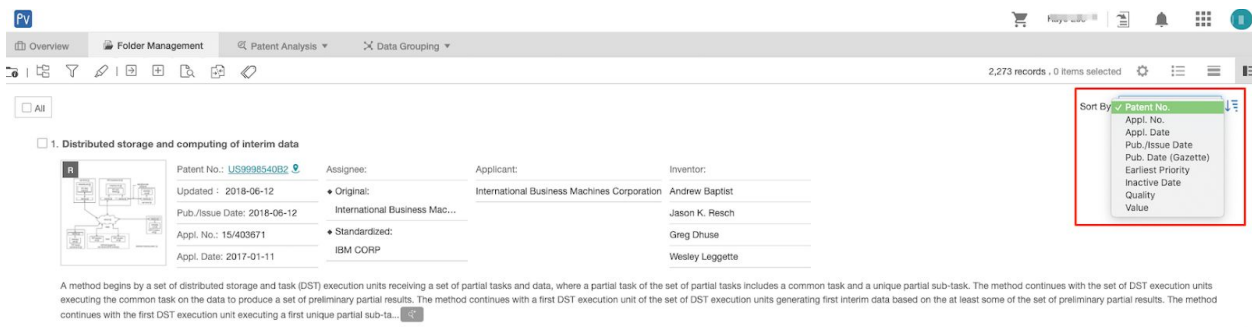


- Summary Mode  : View the representative figure and bibliographical details

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

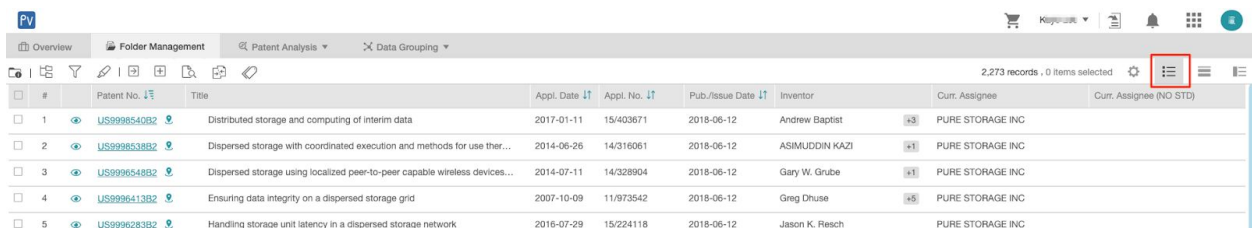



Select your **Sort By** preference in this view. It will apply to all other view modes.

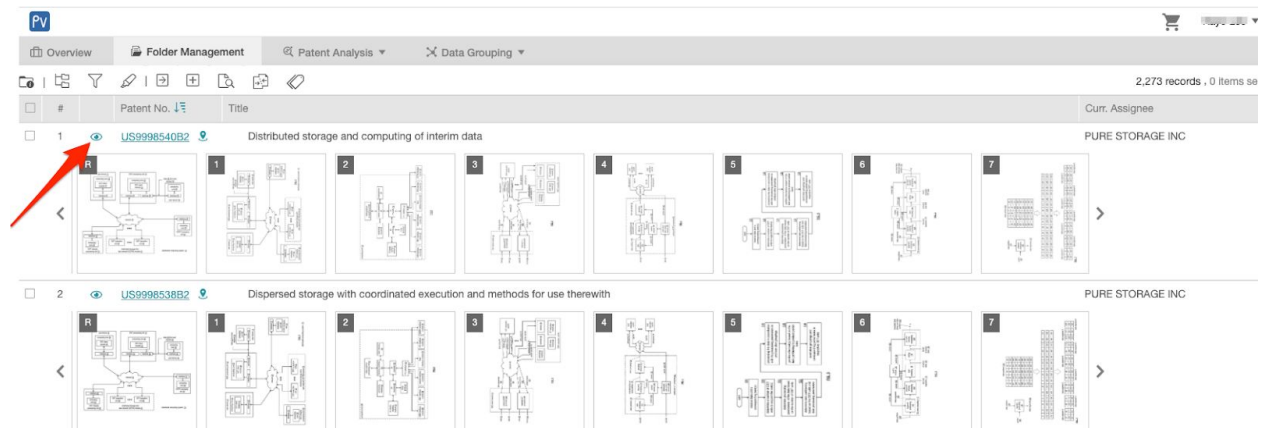




- List Mode  : View patents in a list format

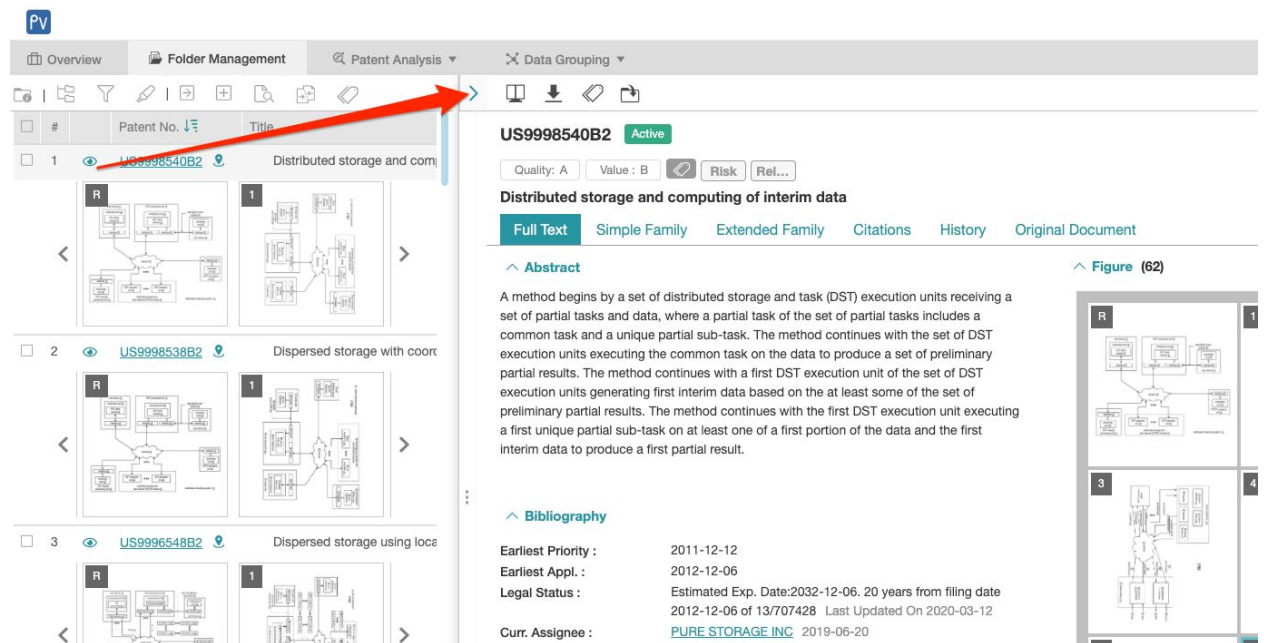
To select which columns are displayed, please refer to this [section](#).



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




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

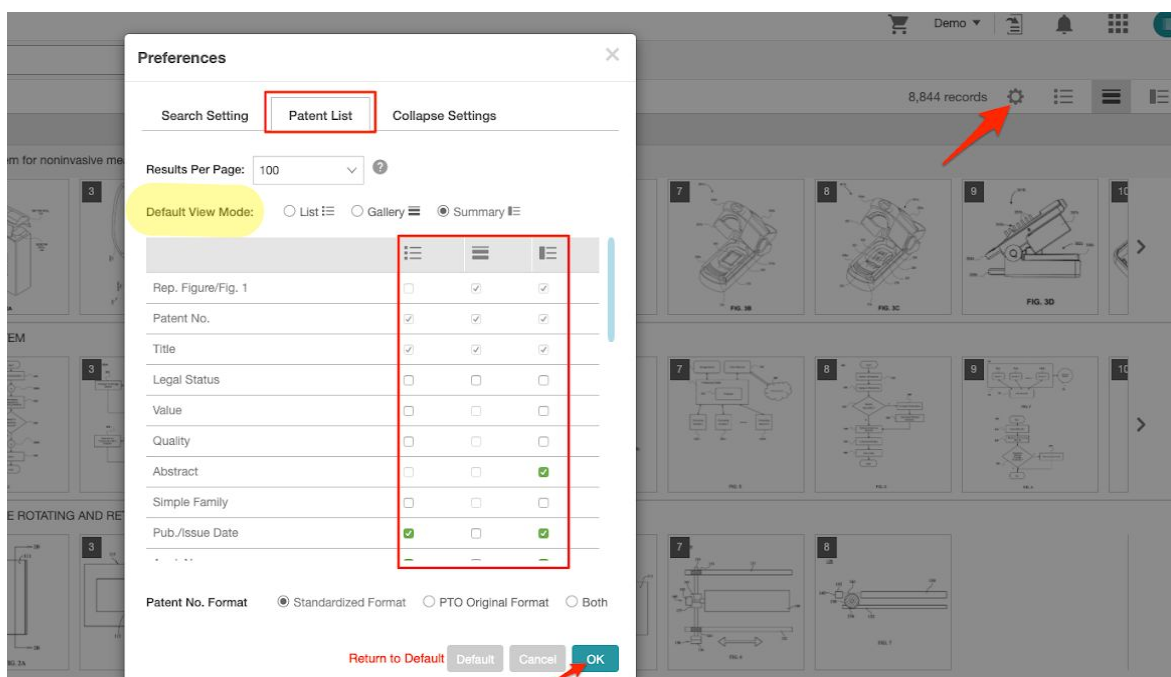


Note: Tools such as Filter, Highlighter, and Export, among others, on the patent list page are disabled in Split View.

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

Set Preferences for View Modes

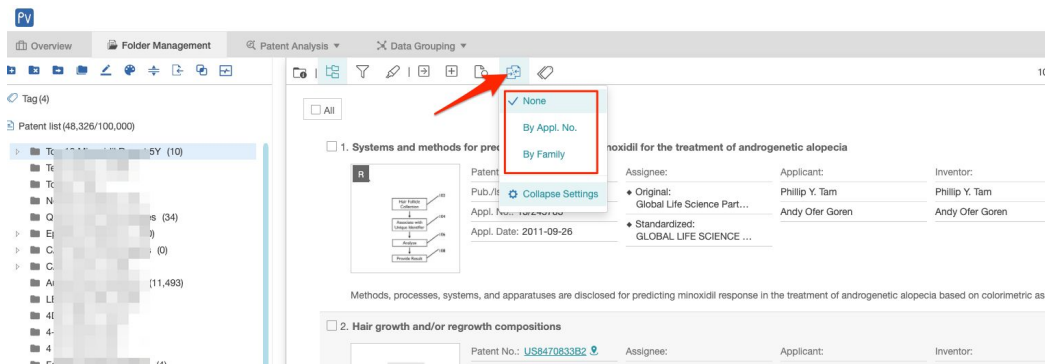
You can select and save your display options for each view mode in Preferences . Some options may be disabled under each view mode.



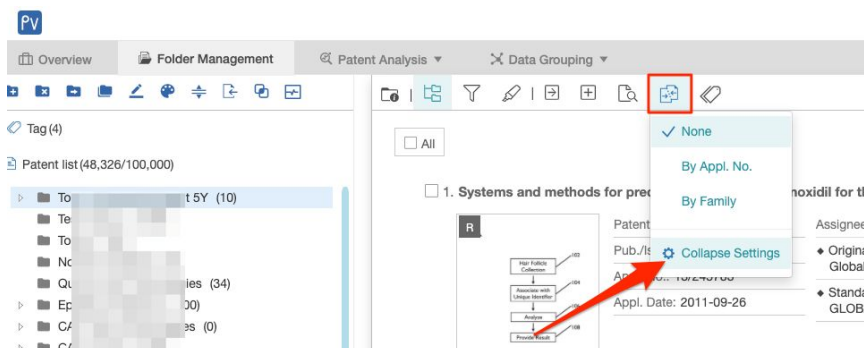
Collapse

Collapse the patents within any folder by application number or by family. Simply select the folder and

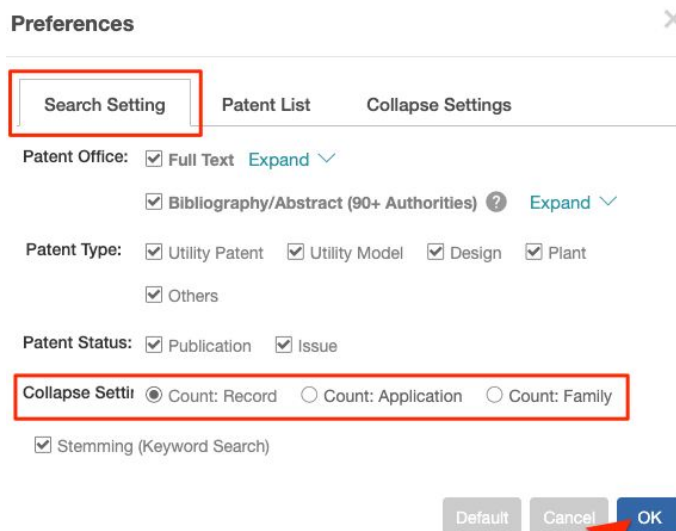
click on the  Collapse icon .



To set your own preferences as the account default, click on Collapse Settings.



Then under Search Setting, select your Collapse Setting. Then, click OK to save.



Under Collapse Settings, select your sorting preference: by Most Recent or by Earliest date.

Preferences ×

Search Setting Patent List **Collapse Settings**

By Appl. No.

Preferred Date ☒ Most Recent ☐ Earliest

By Family

Preferred Date ☒ Most Recent ☐ Earliest

Default Cancel **OK**

To export collapsed results, 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 1 ~ 10

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):800/1000000000 Full Text (PDF):0/200000 Front Page (PDF):0/200000

File Name: Patentlist-Patentcloud

Cancel **Export**

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

The screenshot shows a patent analysis software interface. On the left is a sidebar with a folder tree under 'Tag (4)' and 'Patent list (48,326/100,000)'. The main area displays a list of patents. The first patent, '1. Systems and methods for predicting response to minoxidil for the treatment of androgenetic alopecia', is highlighted with a red box. Below it is another patent, 'Systems And Methods For Predicting Response To Minoxidil For The Treatment Of Androgenetic Alopecia', and then '2. HAIR GROWTH AND/OR REGROWTH COMPOSITIONS'.

1. Systems and methods for predicting response to minoxidil for the treatment of androgenetic alopecia

Patent No.: [US8691518B2](#) | Assignee: | Applicant: | Inventor: |
 Pub./Issue Date: 2014-04-08 | ♦ Original: Global Life Science Part... | Phillip Y. Tam | Phillip Y. Tam
 Appl. No.: 13/245783 | ♦ Standardized: | Andy Ofer Goren | Andy Ofer Goren
 Appl. Date: 2011-09-26 | ♦ Standardized: GLOBAL LIFE SCIENCE ...

Methods, processes, systems, and apparatuses are disclosed for predicting minoxidil response in the treatment of androgenetic alopecia based on colorimetric assay.

Systems And Methods For Predicting Response To Minoxidil For The Treatment Of Androgenetic Alopecia

Patent No.: [US20120077214A1](#) | Assignee: | Inventor: |
 Pub./Issue Date: 2012-03-29 | ♦ Original: | Phillip Y. Tam | Phillip Y. Tam
 Appl. No.: 13/245783 | ♦ Standardized: GOREN ANDY OFER | Andy Ofer Goren | Andy Ofer Goren
 Appl. Date: 2011-09-26 | ♦ Standardized: GOREN ANDY OFER +1

Methods, processes, systems, and apparatuses are disclosed for predicting minoxidil response in the treatment of androgenetic alopecia based on colorimetric assay.


2. HAIR GROWTH AND/OR REGROWTH COMPOSITIONS

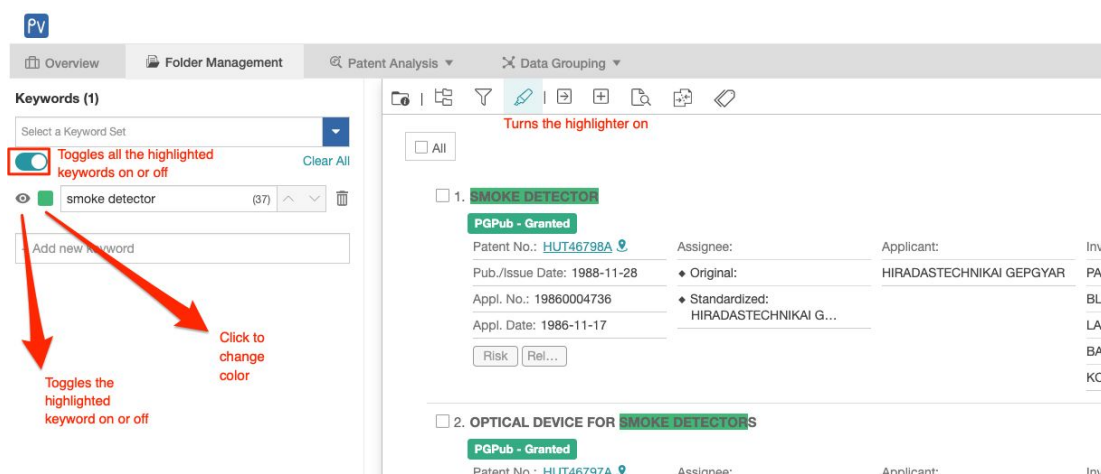
Patent No.: [US20150105414A1](#) | Assignee: | Applicant: | Inventor: |
 Pub./Issue Date: 2015-04-16 | ♦ Original: McNeil-PPC, Inc. | Longsheng Hu | Longsheng Hu
 Appl. No.: 14/575000 | ♦ Standardized: | Susan Wendling | Susan Wendling

Highlighter

Highlighter within Folder Management

Users can highlight keywords to easily locate patents within a folder or sub-folder.

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 current folder. 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.



The screenshot shows the 'Folder Management' tab in the 'Pv' application. The 'Keywords (1)' panel on the left has a toggle switch labeled 'Toggles all the highlighted keywords on or off' and a list of keywords including 'smoke detector' with 37 occurrences. The main panel on the right shows search results for 'smoke detector' with two entries: '1. SMOKE DETECTOR' and '2. OPTICAL DEVICE FOR SMOKE DETECTORS'. Both entries are marked as 'PGPub - Granted' and show patent details like 'Patent No.: HUT46798A' and 'Applicant: HIRADASTECHNIKAI GEPGYAR'.

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

The screenshot shows the PV software interface. On the left, the 'Keywords (7)' panel lists keywords: detector (41), alarm (0), sound (0), smoke (90), switch (7), network (0), and timing (1). Below the list is a '+ Add new keyword' button. A red arrow points to the 'Save to Keyword Sets' button at the bottom of this panel. On the right, the 'Patent Analysis' panel displays three patent results:

- 1. SMOKE DETECTOR**
 PGPub - Granted
 Patent No.: HUT46798A
 Pub./Issue Date: 1988-11-28
 Appl. No.: 19860004736
 Appl. Date: 1986-11-17
 Assignee: HIRADASTECHNIKAI G...
 Applicant: HIRADASTECHNIKAI G...
- 2. OPTICAL DEVICE FOR SMOKE DETECTORS**
 PGPub - Granted
 Patent No.: HUT46797A
 Pub./Issue Date: 1988-11-28
 Appl. No.: 19860004735
 Appl. Date: 1986-11-17
 Assignee: HIRADASTECHNIKAI G...
 Applicant: HIRADASTECHNIKAI G...
- 3. Smoke detector**
 Patent No.: IES940134A2
 Pub./Issue Date: 1994-05-18
 Appl. No.: S940134
 Appl. Date: 1994-02-14
 Assignee: MENVIER RES LTD
 Applicant: MENVIER RESEARCH L...

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.

The screenshot shows the 'Keywords (6)' panel. It lists six keywords: detector (41), alarm (0), sound (0), smoke (90), switch (7), and network (0). Below the keywords is a list of keyword sets, each with a capacity of 0/40. 'Set 1' is highlighted with a red box. At the bottom of the panel is a 'Save to Keyword Sets' button.

Keyword Set	Count
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
Set 10	0/40

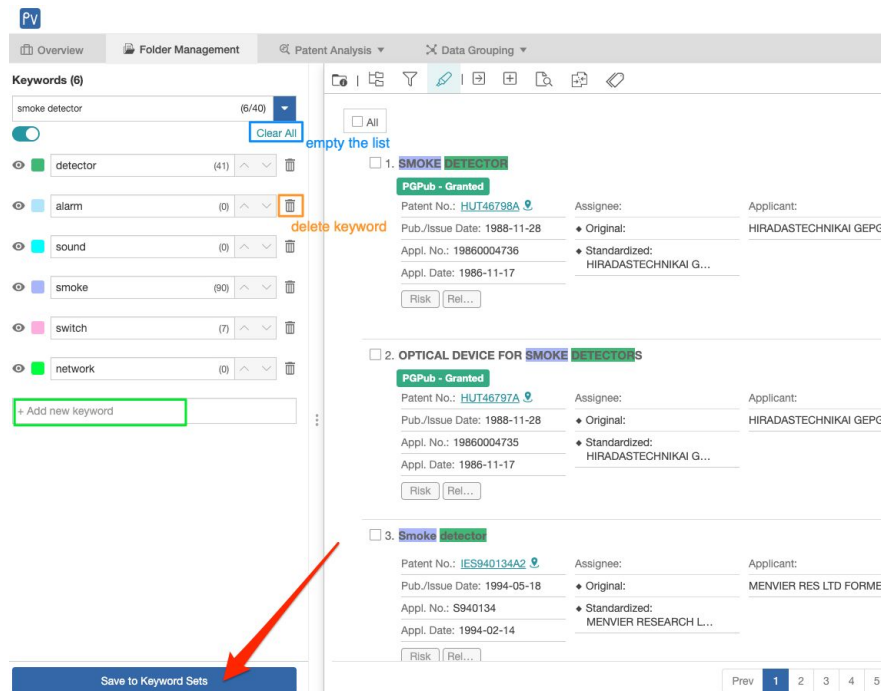
There will be a prompt showing whether the keywords were successfully saved or not. The number next to the set name will also reflect the number of keywords.

The screenshot shows the PV Patent Analysis interface. On the left, the 'Keywords (6)' panel displays a list of keywords: detector (41), alarm (0), sound (0), smoke (90), switch (7), and network (0). A red box highlights the 'Set 1' dropdown menu and the 'Clear All' button. On the right, the results panel shows two patent entries, both titled 'SMOKE DETECTOR' and 'OPTICAL DEVICE FOR SMOKE DETECTORS'. A green notification at the top right indicates 'Successfully Saved'.

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

The screenshot shows the PV Patent Analysis interface. On the left, the 'Keywords (6)' panel displays a list of keyword sets: Set 1 (6/40), 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), and Set 9 (0/40). A red arrow points to the edit icon next to Set 1. On the right, the results panel shows two patent entries, both titled 'SMOKE DETECTOR' and 'OPTICAL DEVICE FOR SMOKE DETECTORS'.

- 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.

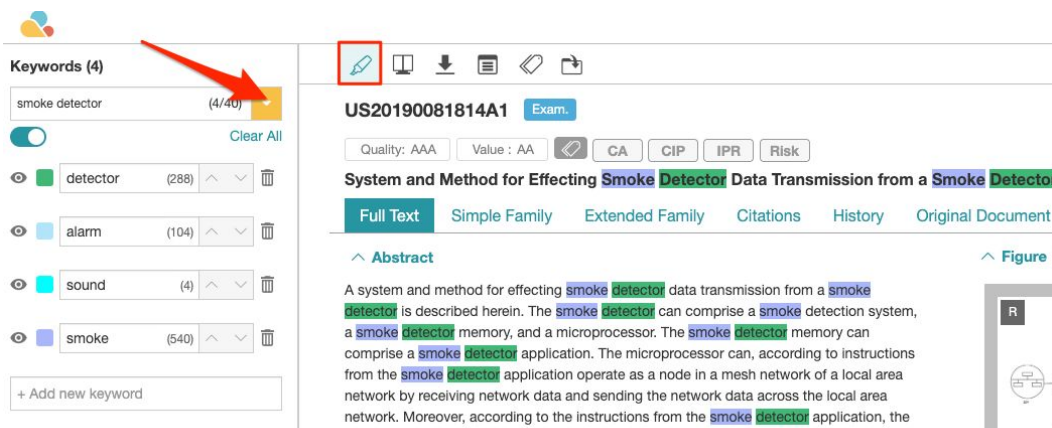
Save Keyword Sets

This operation will **replace** the existing keyword set, please confirm.



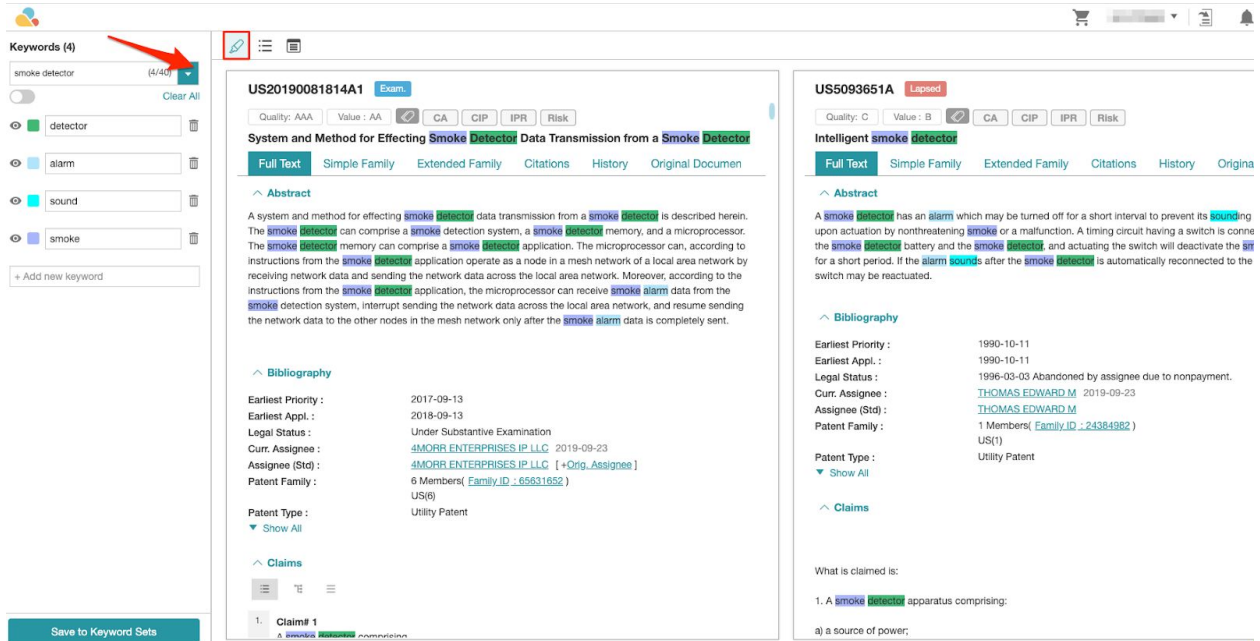
Highlighter within patent pages

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



Highlighter when comparing patents

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




The screenshot displays the Patentcloud interface for comparing two patents. On the left, a 'Keywords (4)' panel shows a list of keywords: 'smoke detector', 'detector', 'alarm', 'sound', and 'smoke'. A red arrow points to the dropdown menu next to 'smoke detector'. Below the list is a '+ Add new keyword' button and a 'Save to Keyword Sets' button.

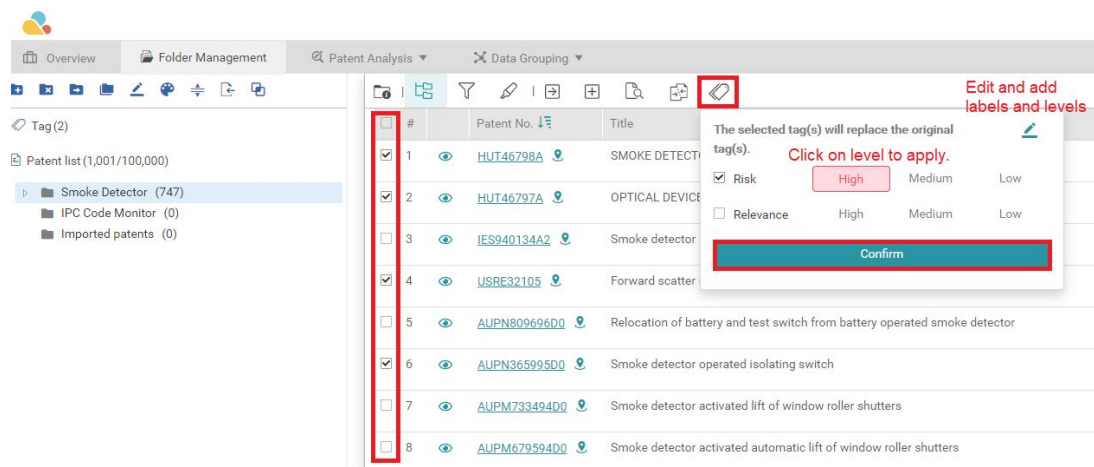
The main area shows two patent records side-by-side:

- US20190081814A1** (Exam): Title: 'System and Method for Effecting Smoke Detector Data Transmission from a Smoke Detector'. The abstract describes a system for smoke detection and data transmission. The bibliography lists the earliest priority date as 2017-09-13 and the current assignee as 4MORR ENTERPRISES IP, LLC.
- US5093651A** (Lapsed): Title: 'Intelligent smoke detector'. The abstract describes a smoke detector with an alarm that can be turned off. The bibliography lists the earliest priority date as 1990-10-11 and the current assignee as THOMAS EDWARD M.

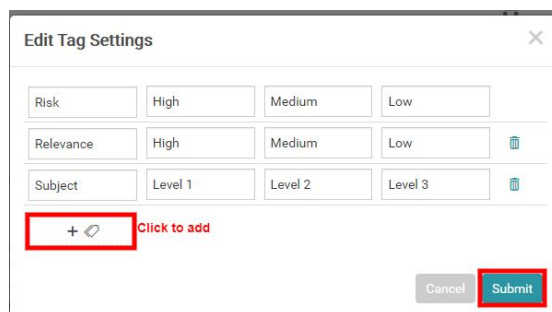
The interface includes various filters and tabs for each patent, such as 'Full Text', 'Simple Family', 'Extended Family', 'Citations', 'History', and 'Original Document'.

Tag

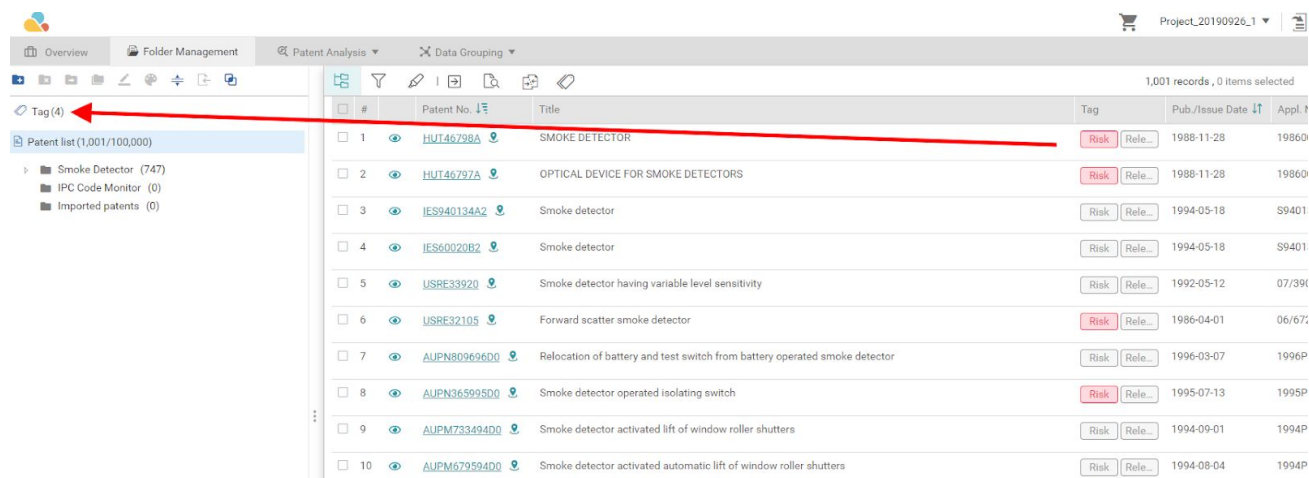
Tag patents right in your folder or sub-folder. Select the patents you want to tag and click on the **Tag** icon  from the toolbar. You can choose from the default labels: Risk and Relevance, and select the type or ranking, say, either High, Medium, or Low.



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.



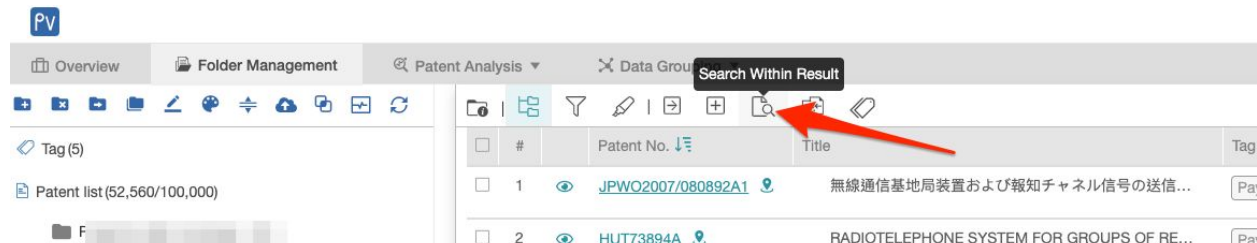
You can also view the tagged patent/s in your Tagged folder.



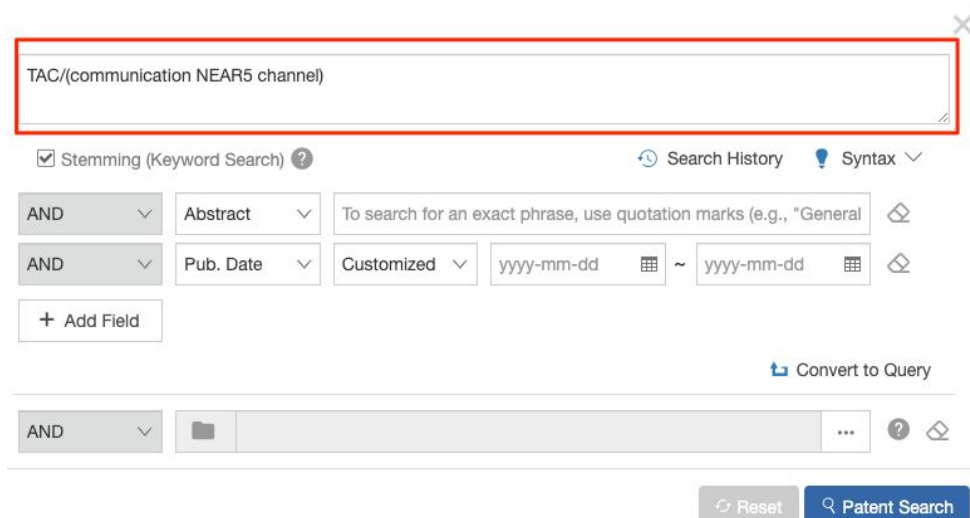
Search Within Result

1. Conduct a second search within your folder/s. If you want to search within a specific folder or subfolder, click on it. Otherwise, you can click on the Patent List to search in all folders.

Then, click on the Search Within Result icon .

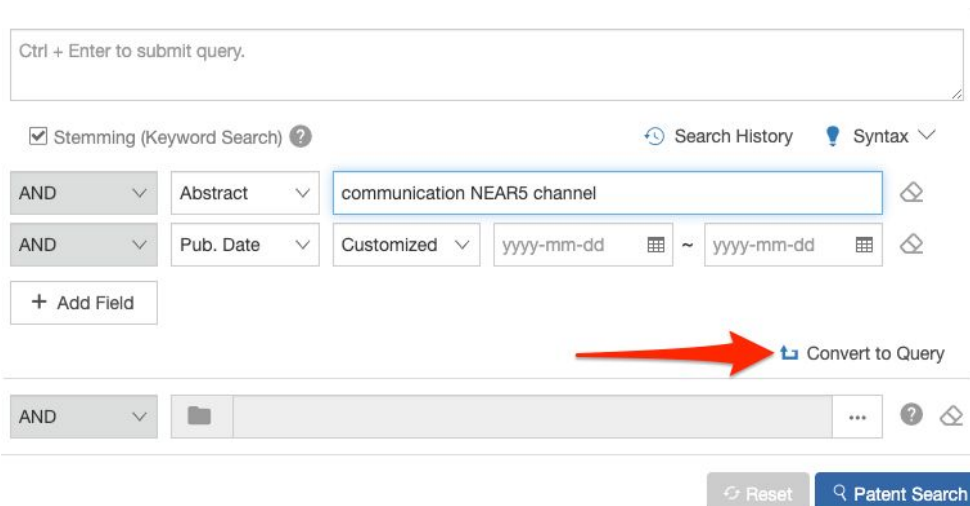


2. Enter your search criteria in the search box. You can also use keyword search syntax and Boolean operators (NOT/AND/OR) to obtain a more accurate result.



The screenshot shows the search criteria input form. The search box contains the text "TAC/(communication NEAR5 channel)". Below the search box, there are options for "Stemming (Keyword Search)" (checked), "Search History", and "Syntax". There are also dropdown menus for "AND", "Abstract", "Pub. Date", and "Customized". A "Convert to Query" button is visible at the bottom right of the form.

If you're using the dropdown menu, make sure to click on Convert to Query to apply. Then, click on Patent Search.



The screenshot shows the search criteria input form with the "communication NEAR5 channel" entered in the search box. The "Convert to Query" button is highlighted with a red arrow. The interface also shows the "Patent Search" button at the bottom right.


- A search can also be conducted between two selected folders. Adjust your search scope by selecting another folder or sub-folder to include (AND operator) or exclude (NOT operator) - improving your productivity in this digital workspace.

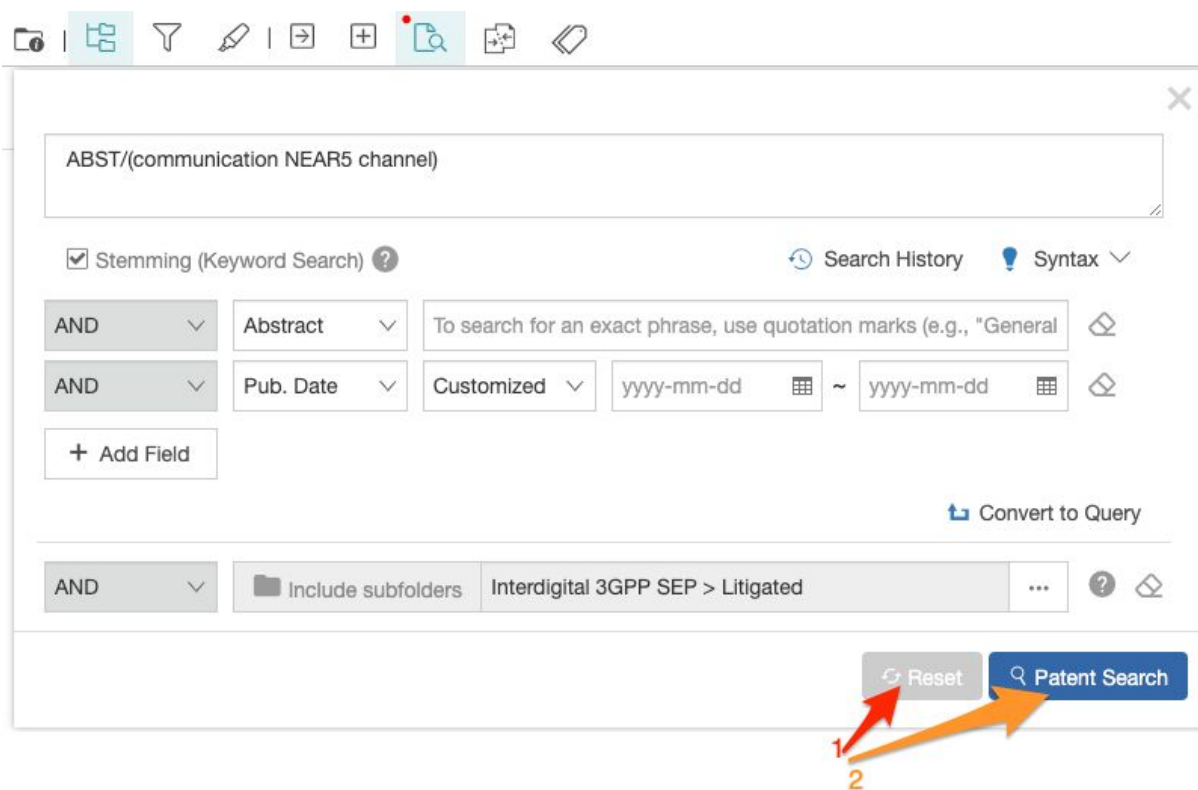
The screenshot shows the Patent Analysis interface. On the left, a folder tree under 'Tag (5)' lists various folders, with 'Interdigital 3GPP SEP (21,138)' and 'Litigated (21)' highlighted with green checkmarks. The main search area on the right shows a search query 'ABST/(communication NEAR5 channel)'. Below the query, there are options for 'Stemming (Keyword Search)', 'Search History', and 'Syntax'. The search criteria are set to 'AND' for 'Abstract' and 'Pub. Date'. A red box highlights the search scope configuration, showing 'Include subfolders' and 'Interdigital 3GPP SEP > Litigated'. The 'Convert to Query' button is also visible.

To illustrate, the example above will search for (communication NEAR5 channel) in the abstract of patents that are stored in both 'Interdigital 3GPP SEP' and 'Litigated' folders.

The screenshot shows the search results table. A red box highlights the search configuration: 'Search Within Results Folder : Interdigital 3GPP SEP' and 'Designated Comparison Folder : Interdigital 3GPP SEP > Litigated(Include subfolders)'. The table lists patents with columns for Patent No., Title, Tag, and Legal Status.





	#	Patent No.	Title	Tag	Legal Status
<input type="checkbox"/>	1	US8199726B2	Channel quality measurements for downlink resourc...	Pay... Las...	Active
<input checked="" type="checkbox"/>	2	US8009636B2	Method and apparatus for performing an access pr...	Pay... Las...	Lapsed
<input type="checkbox"/>	3	US7941151B2	Method and system for providing channel assignme...	Pay... Las...	Active
<input type="checkbox"/>	4	US7706332B2	Method and subscriber unit for performing power c...	Pay... Las...	Lapsed
<input type="checkbox"/>	5	US6674791B2	Automatic power control system for a code division ...	Pay... Las...	Expired




To stop the current search, click on the Search within Result icon . Click on Reset, then on Patent Search.








The screenshot shows a patent search interface. At the top, there is a toolbar with various icons, including a magnifying glass over a document. Below the toolbar is a search bar containing the text "ABST/(communication NEAR5 channel)". Under the search bar, there are options for "Stemming (Keyword Search)" (checked), "Search History", and "Syntax". Below these are two rows of search criteria. The first row has "AND" selected, "Abstract" as the field, and a text input "To search for an exact phrase, use quotation marks (e.g., 'General'". The second row has "AND" selected, "Pub. Date" as the field, "Customized" as the operator, and two date inputs "yyyy-mm-dd" separated by a tilde "~". Below the criteria is a "+ Add Field" button. To the right of the criteria is a "Convert to Query" button. At the bottom, there is a row with "AND" selected, a folder icon, "Include subfolders", and a text input "Interdigital 3GPP SEP > Litigated". At the bottom right, there are two buttons: "Reset" and "Patent Search". A red arrow labeled "1" points to the "Reset" button, and an orange arrow labeled "2" points to the "Patent Search" button.


ABST/(communication NEAR5 channel)





☒ Stemming (Keyword Search)   Search History  Syntax 



AND  Abstract  To search for an exact phrase, use quotation marks (e.g., "General 

AND  Pub. Date  Customized  yyyy-mm-dd  ~ yyyy-mm-dd 

+ Add Field

 Convert to Query

AND   Include subfolders Interdigital 3GPP SEP > Litigated ...  

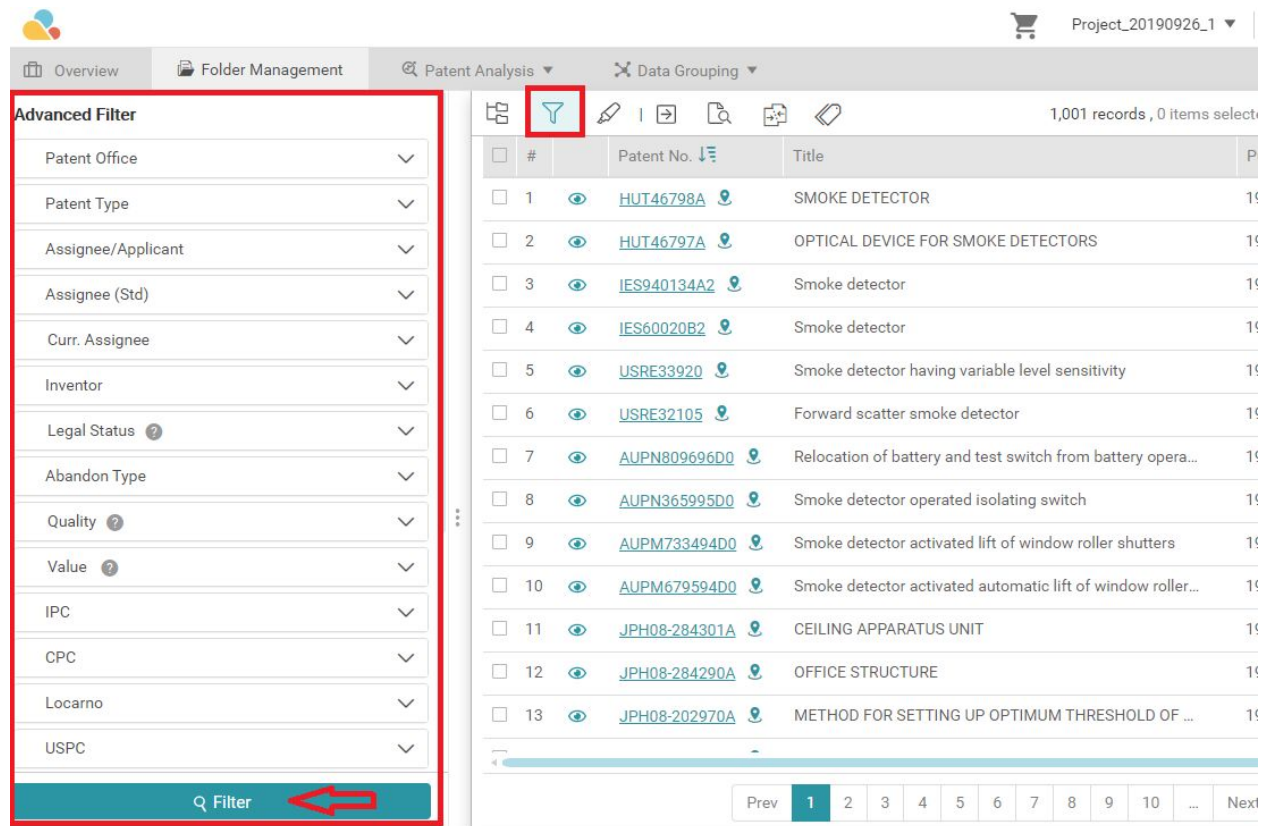
 Reset  Patent Search

1 2

Filter

Patent Vault 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 switch from the Folder icon  to the filter icon  to show the Advanced Filter panel.



The screenshot displays the Patent Vault interface. On the left, the 'Advanced Filter' panel is visible, containing various filter categories such as Patent Office, Patent Type, Assignee/Applicant, Assignee (Std), Curr. Assignee, Inventor, Legal Status, Abandon Type, Quality, Value, IPC, CPC, Locarno, and USPC. Each category has a dropdown arrow. The panel is highlighted with a red border. At the bottom of the filter panel, there is a 'Filter' button with a magnifying glass icon and a red arrow pointing to it.

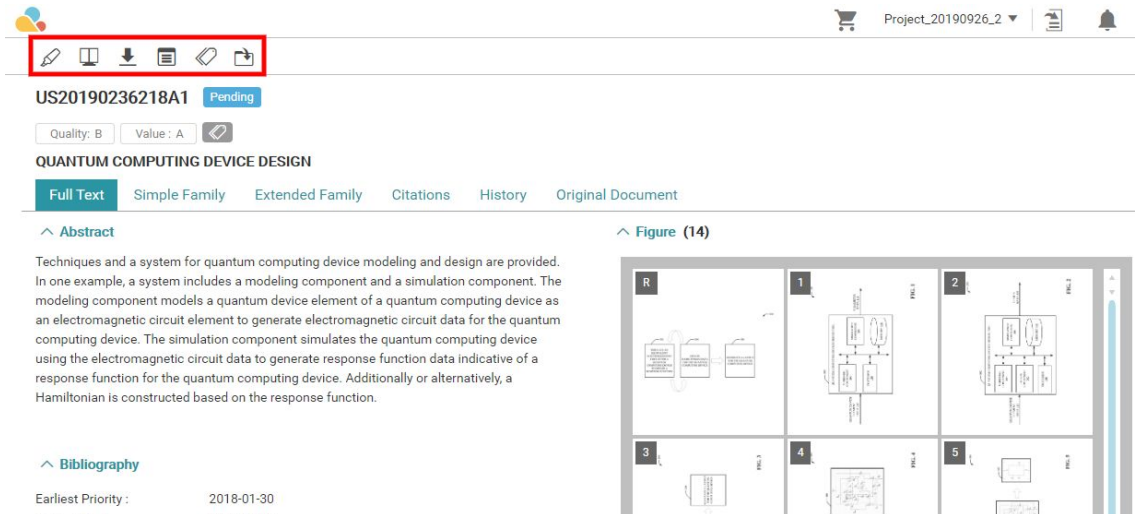
On the right, the main search results area shows a list of patent records. The toolbar at the top of this area includes icons for Folder, Filter (highlighted with a red box), Edit, Add, and other functions. The filter icon is a funnel shape. Below the toolbar, the list of records is displayed with columns for #, Patent No., Title, and P. The records are numbered 1 through 13, and the first record is 'SMOKE DETECTOR' with Patent No. HUT46798A. The list is highlighted with a red border.



At the bottom of the interface, there is a pagination bar with 'Prev', '1', '2', '3', '4', '5', '6', '7', '8', '9', '10', and 'Next' buttons. The '1' button is highlighted with a red box.

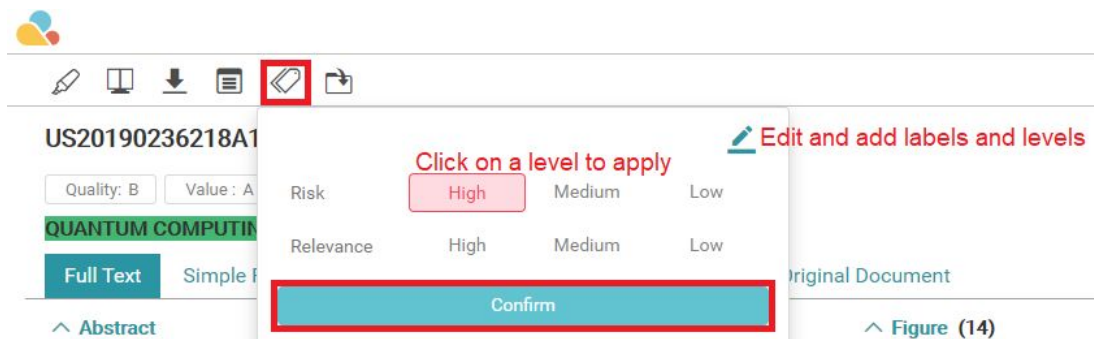
Page View

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.



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)

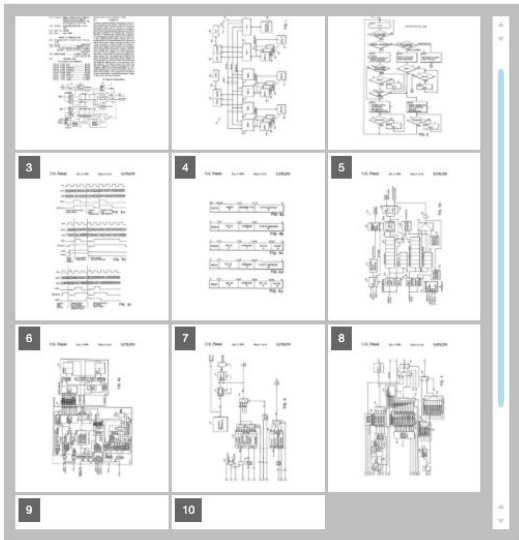
DE(2)/ EP(2)/ CA(1)/ JP(1)/ US(1)/ WO(1)

Patent Type :Utility Patent

▼ Show All

^ Claims

^ Figure (11)



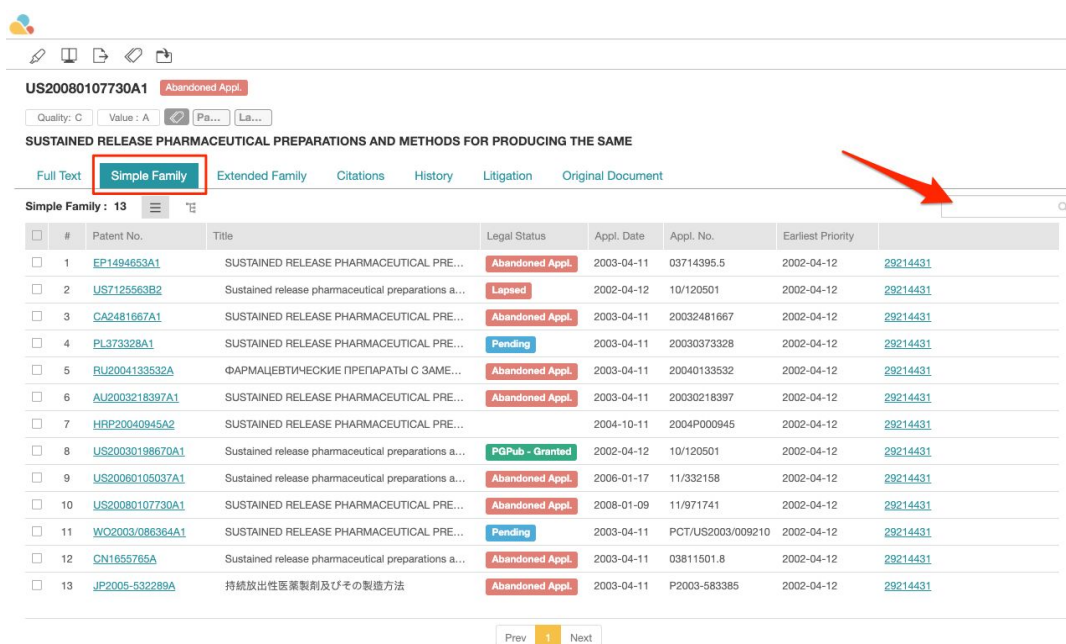
^ Specification

FIELD OF THE INVENTION ▼

48

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 Ps... La...



SUSTAINED RELEASE PHARMACEUTICAL PREPARATIONS AND METHODS FOR PRODUCING THE SAME

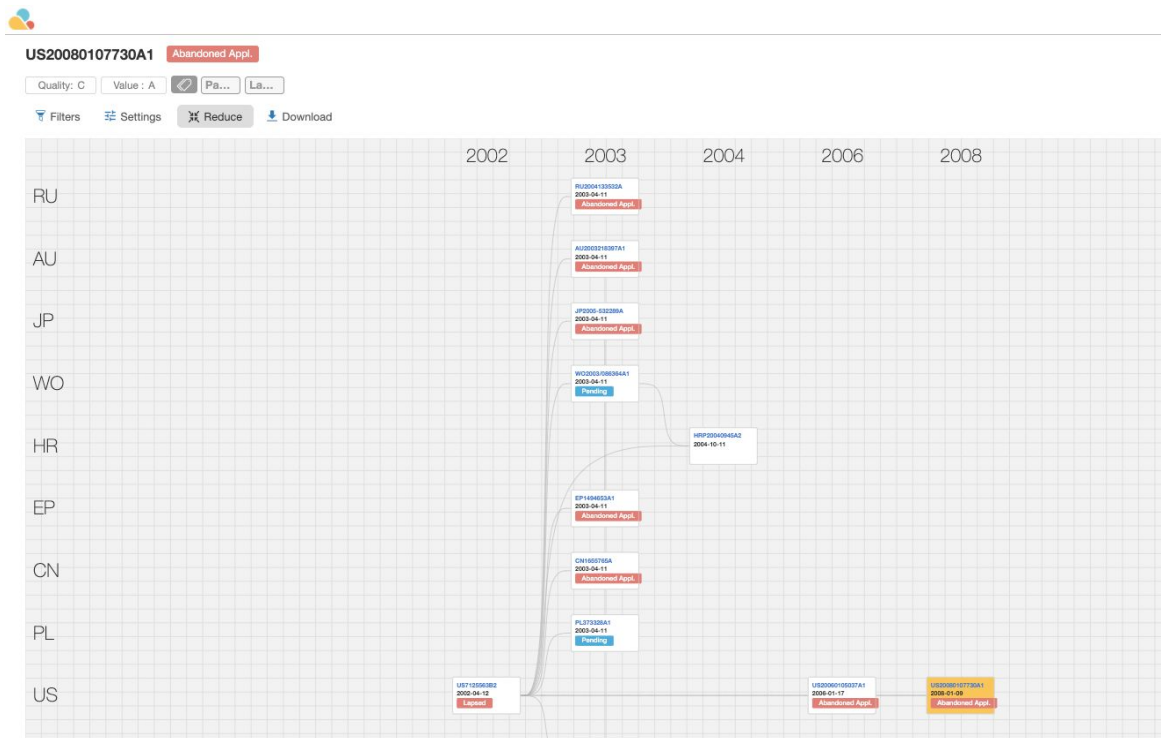
Full Text **Simple Family** Extended Family Citations History Litigation Original Document



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	AU2003218397A1	SUSTAINED RELEASE PHARMACEUTICAL PRE...	Abandoned Appl.	2003-04-11	20030218397	2002-04-12
7	HRP20040945A2	SUSTAINED RELEASE PHARMACEUTICAL PRE...		2004-10-11	2004P000945	2002-04-12
8	US20030198670A1	Sustained release pharmaceutical preparations a...	PGPub - 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** .



Setting

☒ patentNumber
☒ appDate
☒ status
☐ title
☐ applNumber
☐ currAssignee
☐ origAssignee
☐ inventors

Set by default

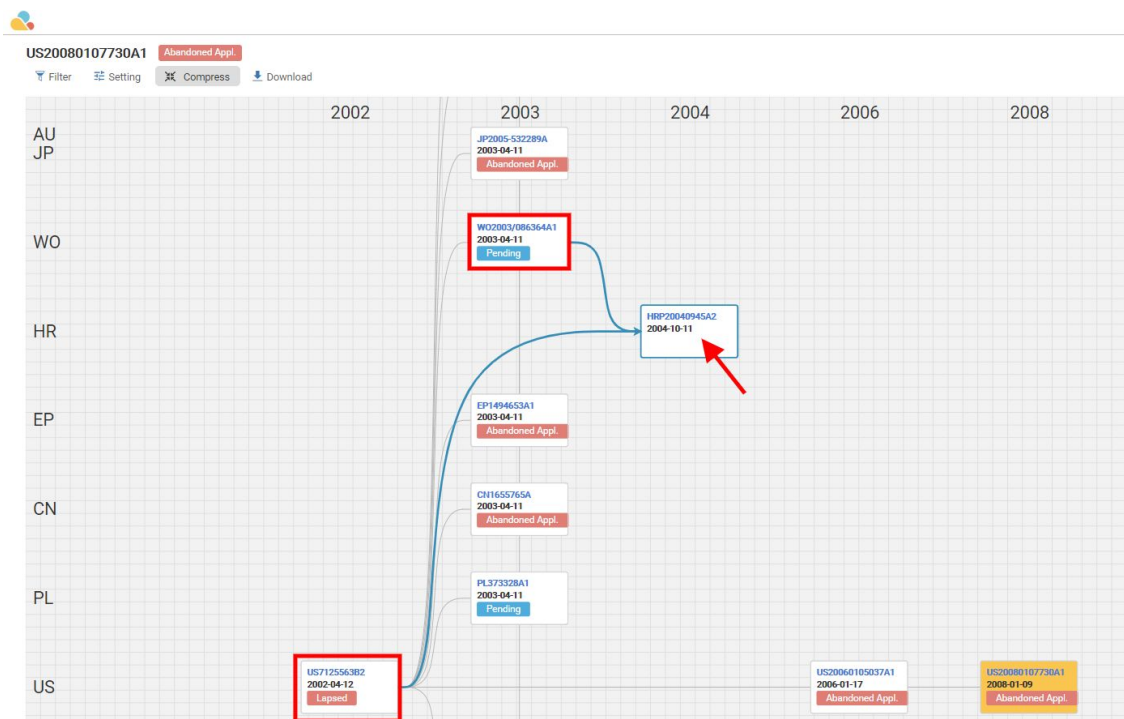
Cancel

Save

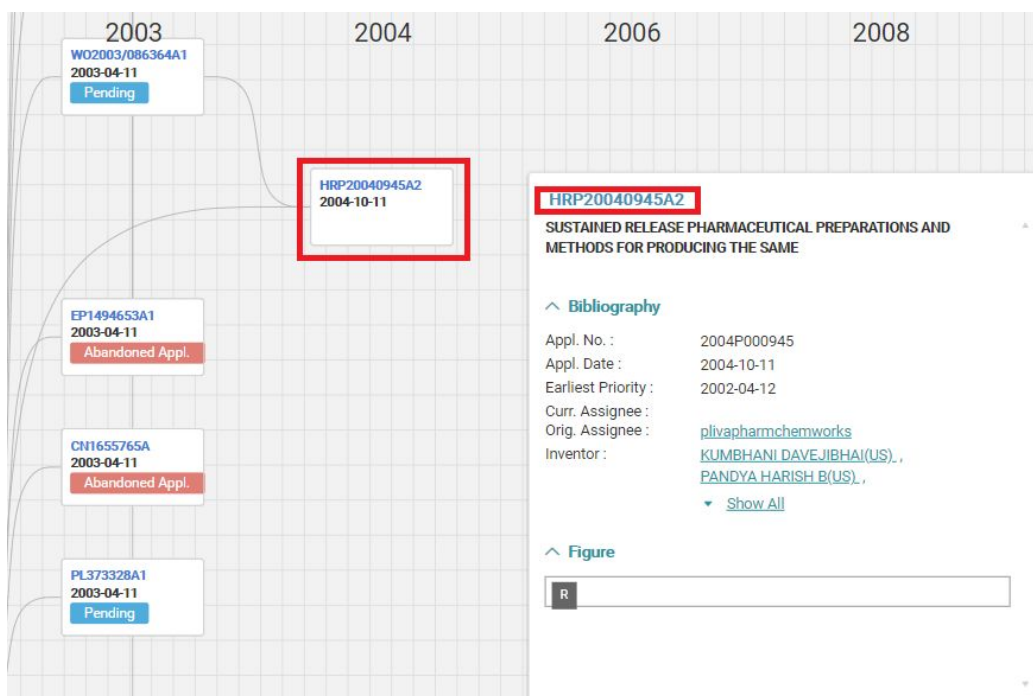
Click on the **Expand**  to use a larger portion of the screen. To download as a JPG image, set the view (zoomed in or zoomed out) you want to get before clicking on **Download** . Whatever part or area is shown on screen, it will reflect on the downloaded image. Users can use either the zoom in and 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 SEMICONDUCT...	1994-02-08	22712773
12	US5615355A	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
15	US5666434A	Queue management mechanism which...	1995-03-31	08/414040	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	US077733A	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 for patent CN110611926A. The patent is titled "(CN) 一种告警的方法及装置" and "(EN) Alarm method and device". The interface includes tabs for Full Text, Simple Family, Extended Family, Citations, History, SEP Declarations (selected), Litigation, and Original Document. Below the tabs, it shows "ETSI SEP Declarations : 3". A table lists three declarations:

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

Below the table, two more declarations are listed:

- 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 Original Document page for patent US5379379A. The patent is titled "Memory control unit with selective execution of queued read and write requests". The interface includes tabs for Full Text, Simple Family, Extended Family, Citations, History, Litigation, and Original Document (selected). Below the tabs, it shows the patent number "022f0014-708c-41da-9cd3-abcc7040eeaf" and the page number "1 / 24". A red box highlights the "Original Document" tab and the download/print icons. The patent document is displayed in a viewer, showing the title "United States Patent", the inventor "Becker et al.", the patent number "5,379,379", and the date of patent "Jan. 3, 1995". The document includes an abstract and a list of references.

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

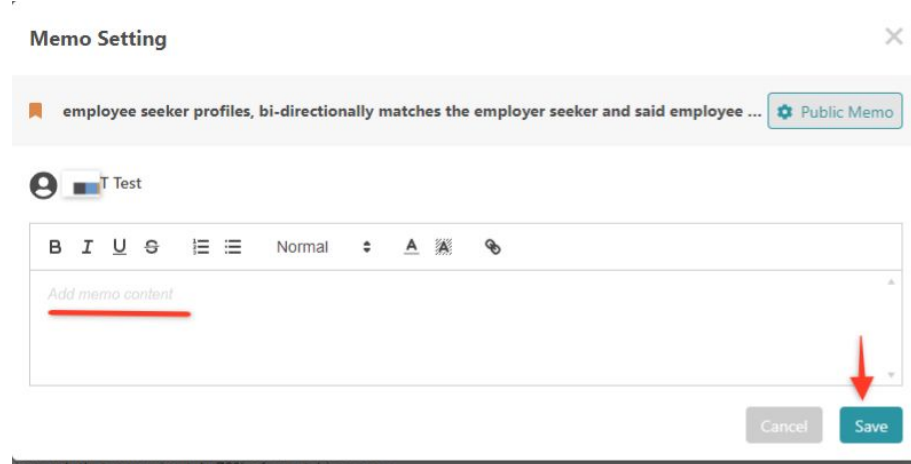
1. After enabling memo mode from the toolbar, simply select any word, sentence, or paragraph in the patent text and click on the **Add Memo**

The screenshot shows the Patent Vault interface. On the left, a sidebar contains a 'Project' dropdown set to 'For Demo Only' and a button labeled '+ Add Memo to Current Patent' which is highlighted with a red box. Below this is a section titled 'Adding a Memo' with instructions. The main area displays patent information for 'US7805382B2' with tabs for 'Full Text', 'Simple Family', 'Extended Family', 'Citations', 'History', and 'Original Document'. The 'Full Text' tab is active, showing an 'Abstract' and a 'Specification' section. A red arrow points to the 'Add Memo' icon in the top toolbar. The 'Specification' section on the right includes 'FIELD OF THE INVENTION' and 'BACKGROUND OF THE INVENTION' headings with corresponding text.

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**.

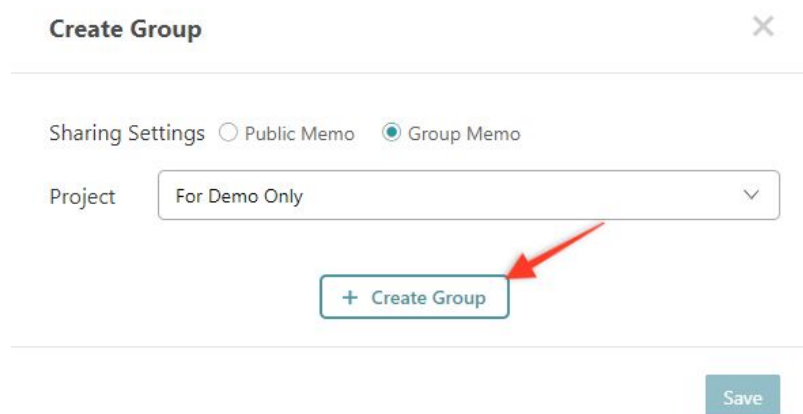
The 'Create Group' dialog box is shown. It has a title bar with a close button. Below the title bar, there are 'Sharing Settings' with two radio buttons: 'Public Memo' (which is selected and indicated by a red arrow) and 'Group Memo' (indicated by another red arrow). The word 'or' is placed between the two options. Below the settings is a 'Project' dropdown menu currently set to 'For Demo Only'. At the bottom right is a blue 'Save' button.

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



The screenshot shows a 'Memo Setting' dialog box with a close button (X) in the top right corner. Below the title bar, there is a header area with a document icon, the text 'employee seeker profiles, bi-directionally matches the employer seeker and said employee ...', and a 'Public Memo' button. Underneath, there is a user profile icon and the name 'T Test'. A rich text editor is present with a toolbar containing icons for bold (B), italic (I), underline (U), strikethrough (ABC), bulleted list, numbered list, 'Normal' style, font color, background color, and link. The text area contains the placeholder 'Add memo content' with a red underline. At the bottom right, there are 'Cancel' and 'Save' buttons. A red arrow points to the 'Save' button.

- 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.



The screenshot shows a 'Create Group' dialog box with a close button (X) in the top right corner. Below the title bar, there is a 'Sharing Settings' section with two radio buttons: 'Public Memo' and 'Group Memo', where 'Group Memo' is selected. Below this is a 'Project' dropdown menu currently showing 'For Demo Only'. At the bottom, there is a '+ Create Group' button with a red arrow pointing to it, and a 'Save' button at the very bottom right.

*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**.


The image shows two side-by-side 'Create Group' dialog boxes. Both have a 'Memo Group' field with the placeholder text 'Name for your group'. Below this is a section titled 'Select members who can access those memos in this project' with two radio buttons: 'No Permission' (labeled 1) and 'Can Access' (labeled 3). Below the radio buttons is a table of members. The left dialog has one member listed: 'inquantik.com PatentCloud Guide'. The right dialog has three members listed: 'inquantik.com(manager)', 'inquantik.com(manager)', and '@inquantik.com(manager)'. In the right dialog, the 'Remove' buttons for each member are highlighted with a red box. Red arrows point to the 'Can Access' button in both dialogs, and another red arrow points to the 'Create' button in the right dialog.

- 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.

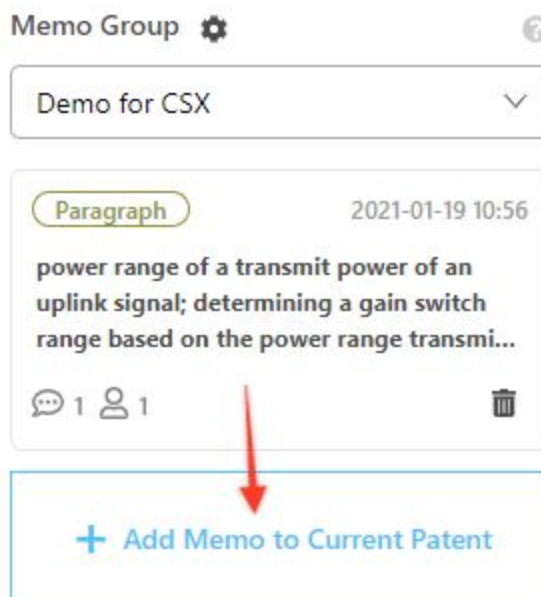
There are three types (Patent, Paragraphic, or Figure) of memos that mark different elements of a patent document. You can see at the top left of each memo thread to find out which type of the memo is associated with.

The image shows a 'Memo Group' interface with a dropdown menu set to 'Demo for CSX'. Below the dropdown are three memo threads. Each thread has a type label at the top left: 'Fig.', 'Paragraph', and 'Patent'. The 'Fig.' label is highlighted with a red box. The 'Paragraph' label is highlighted with a red box. The 'Patent' label is highlighted with a red box. Each thread shows the memo title, date, and a list of members. The first thread is titled 'Fig.1' and has a date of '2021-01-21 09:58'. The second thread is titled 'widespread because of their relatively small size and portability. However, to achieve small-sized portable' and has a date of '2021-01-21 10:02'. The third thread is titled 'US7573707B2' and has a date of '2021-01-21 09:53'.

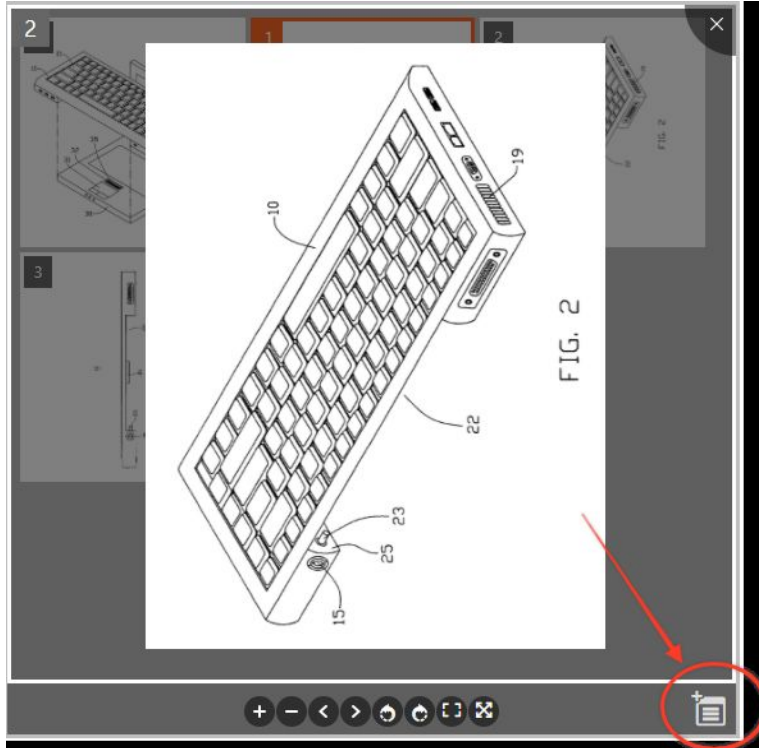
3. The text linked to the note is now underline in orange, once clicked the selected text will be highlighted in blue for easier retrieval:

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

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



- 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:



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

Analysis
2 Charts

Automatic Monitoring
4 Monitoring

Memo
36 Memos

Project History
126 Events

Due Diligence Report 1
1 Reports

CLEARSTONE FTO 1
1 Reviews

a. PublicGroupFilterAllQ Search

b. Patent No.

c. Marked Content

Date Created

Type

Delete

f.

USRE47978E1

US9717132B2

US10845463B2

US7573707B2

CN2849800Y

US20070127205A1

US9532131B2

US8769127B2

USRE38551

TW201931284A

US10431044B2

USRE47978E1

configured to receive a voice instruction from a user and send received voice instruction to the control module.

US10845463B2

US7573707B2

CN2849800Y

US20070127205A1

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

Fig.8

wherein Ar is phenyl which is unsubstituted or substituted with at least one halo group; Q is lower alkoxy, and Q1 is methyl.

TW201931284A

Fig.7

2021-01-20 11:34

2021-01-02 18:06

2021-01-02 18:05

2020-12-21 11:33

2020-12-21 11:22

2020-12-21 11:21

2020-12-21 10:50

2020-12-19 08:02

2020-10-19 17:23

2020-10-19 11:37

2020-09-23 11:57

Patent

Paragraph

Patent

Patent

Patent

Patent

Patent

Fig.

Paragraph

Patent

Fig.

USRE47978E1

US9717132B2

US10845463B2

US7573707B2

CN2849800Y

US20070127205A1

US9532131B2

US8769127B2

USRE38551

TW201931284A

US10431044B2

USRE47978E1

configured to receive a voice instruction from a user and send received voice instruction to the control module.

US10845463B2

US7573707B2

CN2849800Y

US20070127205A1

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

Fig.8

wherein Ar is phenyl which is unsubstituted or substituted with at least one halo group; Q is lower alkoxy, and Q1 is methyl.

TW201931284A

Fig.7

2021-01-20 11:34

2021-01-02 18:06

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2020-12-21 11:33

2020-12-21 11:22

2020-12-21 11:21

2020-12-21 10:50

2020-12-19 08:02

2020-10-19 17:23

2020-10-19 11:37

2020-09-23 11:57

Patent

Paragraph

Patent

Patent

Patent

Patent

Patent

Fig.

Paragraph


Patent

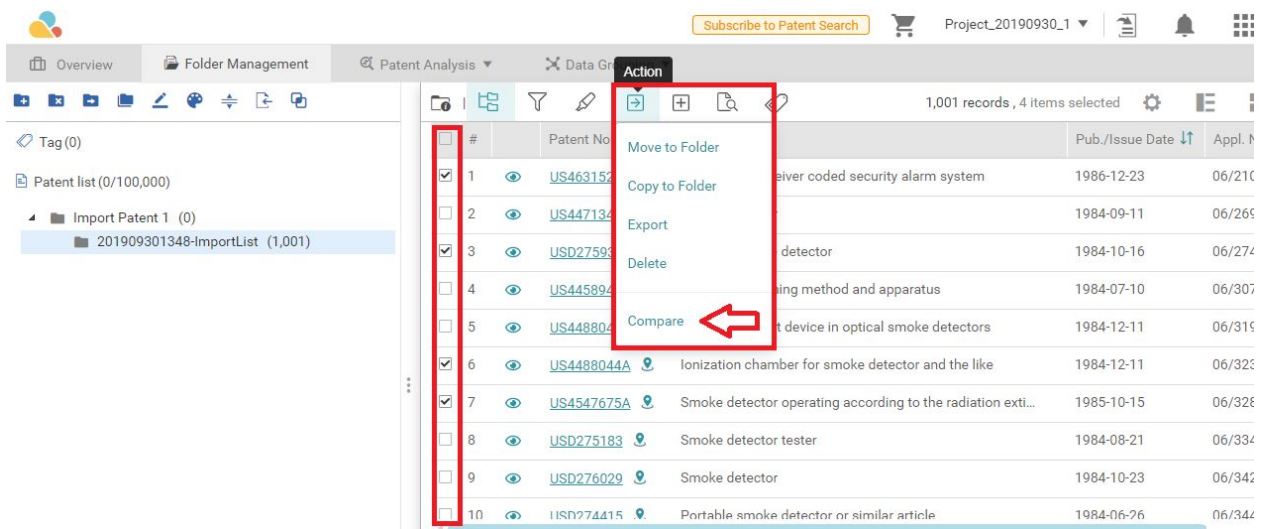
Fig.

- Switch between Public Memo or Group Memo to view the corresponding content
- View the memo count per patent
- Identify the Types (Patent, Paragraph, Figure) and marked specific text or figure number where the memo is stored

- d. Public memo could filter by your created memos or the memos you commented on
- e. Do a keyword search for patent numbers or the specific text where the memo is stored
- f. Easily delete unwanted memos

Compare (Patents)

Patent Vault allows the user to quickly and easily compare two patents. Within a folder or subfolder, select patents by clicking its corresponding checkbox. Then, click on the Action icon  and select Compare.



On the Compare page, you can drag and drop any 2 patents from the Patent list panel to either side of the Compare panel.

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 Rele...

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 Rele...

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.

Visual Analytics

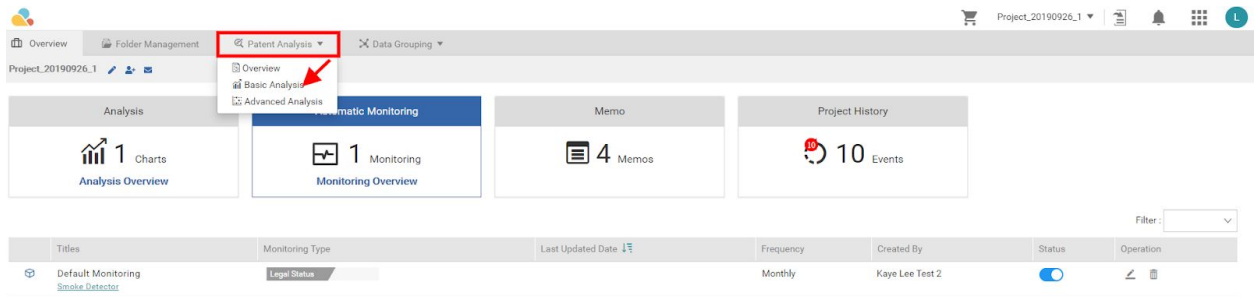
Basic Analysis

Patent Vault allows you to generate a statistical chart for basic analysis.

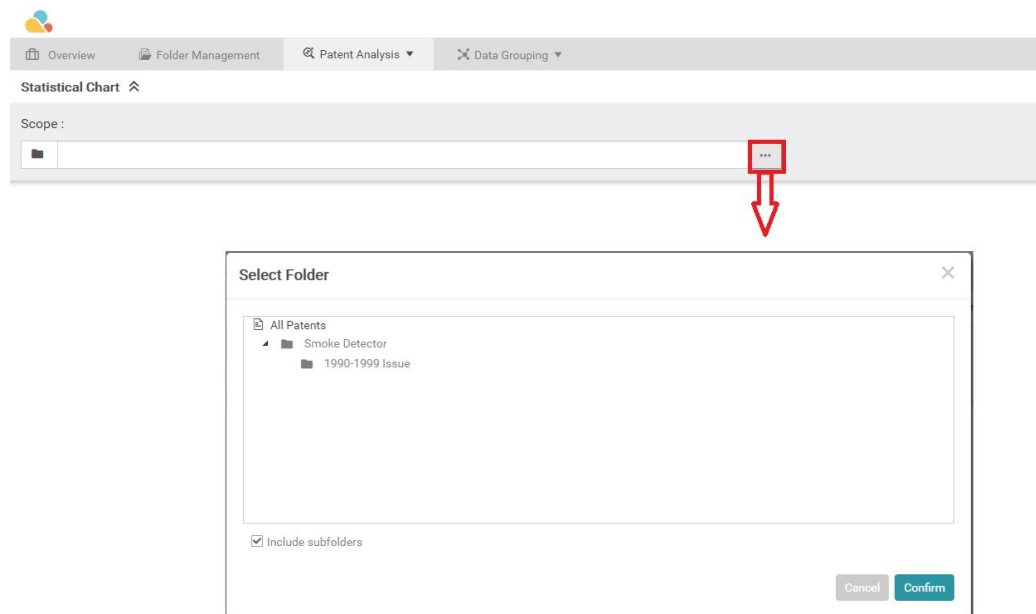
Statistical Chart for a Project

Patent Vault offers basic analyses on a folder of patent data. To use this statistics feature, follow the steps below:

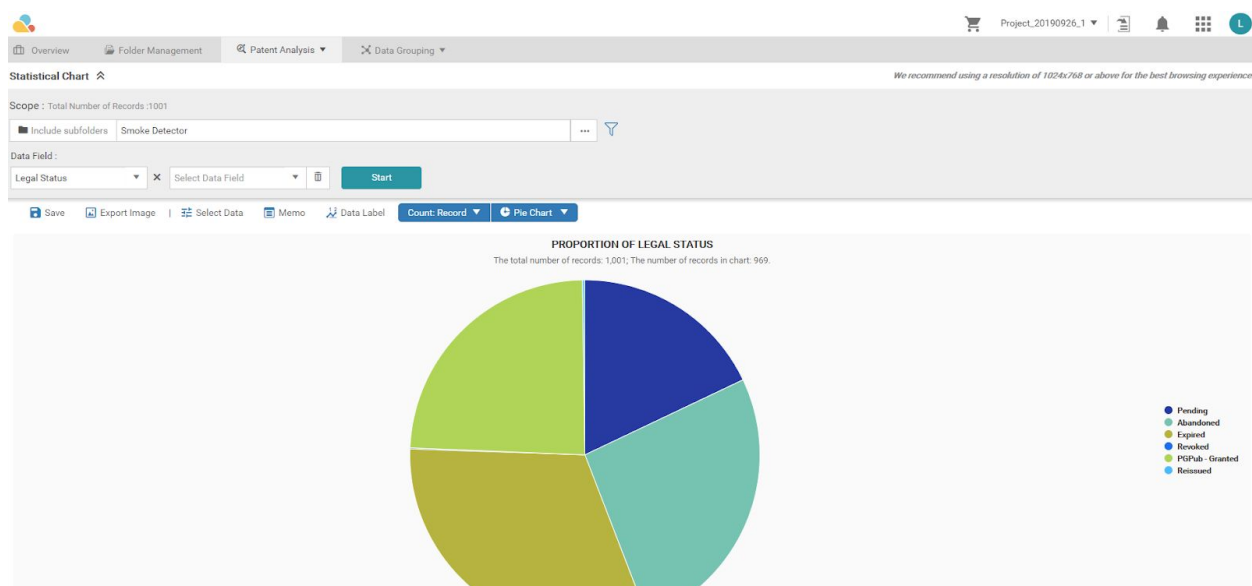
1. In Patent Vault, click on **Patent Analysis** and choose **Basic Analysis** in the drop-down menu, and a new window entitled Scope will appear.



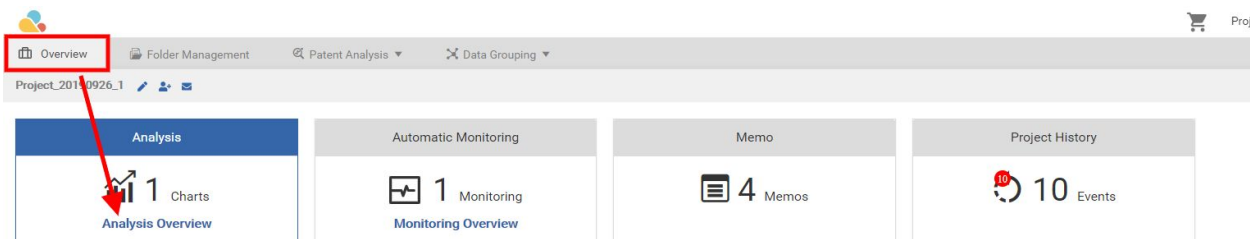
In Scope, select the source of the patents to use in your basic analysis, and click on **Confirm**.



2. Select the parameters you want to use for your chart using the Data Field dropdown, then click on **Start**.

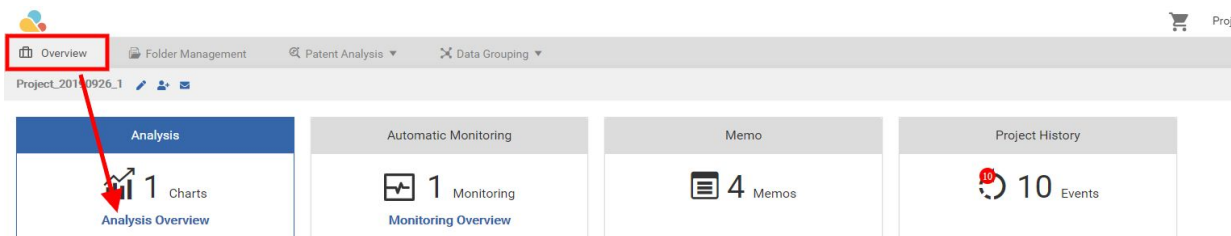


3. Click Save to save the chart in your project, and then open the saved chart in the Overview page, and click on **Analysis Overview**.



If you want to share a chart to the members in your project, please follow the steps below:

1. Go to Overview and in the Analysis box, click on **Analysis Overview**.



2. Locate the chart title you want to share. Hover your mouse on the title to see icon shortcuts for Edit and Delete.

No.	Titles	Type	Folder/Dimensions	Count	Memo	Creator	Date Created
1.	Legal Status	Basic	Smoke Detector dd.statistics.fields.statusCode;	969 (Records)		Kaye Lee Test 2	2019-09-27 11:24
2.	folder vs. Patent Value/Smoke Detector	Advanced	Smoke Detector X axis: folder Y axis: Patent Value	462 (Records)		Kaye Lee Test 2	2019-09-27 10:24

3. Click on Edit and in the Share field, click on On.

Edit

Title: Legal Status

Memo:

Share: ☒ On ☐ Off

If sharing is turned on, members of this project will see this chart.

Cancel Submit

4. Go to Overview and refresh the webpage. This will then be reflected as an additional record in Analysis.

No.	Titles	Type	Folder/Dimensions	Count	Memo	Creator	Date Created
1.	New Legal Status	Basic	Smoke Detector dd.statistics.fields.statusCode;	969 (Records)		Kaye Lee Test 2	2019-09-27 11:24
2.	folder vs. Patent Value/Smoke Detector	Advanced	Smoke Detector X axis: folder Y axis: Patent Value	462 (Records)		Kaye Lee Test 2	2019-09-27 10:24

Advanced Analysis

Matrix Chart

For a spreadsheet-like analysis of patent trends, you can use the Matrix Chart.

1. Click on the **Advanced Analysis** option in the drop-down menu, and a new window will appear. In Scope, select the source of the patents to use in your advanced analysis, and then click on **Confirm**.

The screenshot shows the Patent Analysis interface. The top navigation bar includes 'Overview', 'Folder Management', 'Patent Analysis', and 'Data Grouping'. The 'Patent Analysis' dropdown menu is open, showing 'Overview', 'Basic Analysis', and 'Advanced Analysis'. The 'Advanced Analysis' option is selected, and a red arrow points to it. Below the navigation bar, the 'Matrix Chart' section is visible. The 'Scope' field is empty, and a red arrow points to the '...' button next to it. A 'Select Folder' dialog box is open, showing a tree view of folders. The 'Smoke Detector' folder is selected, and the '1990-1999 Issue' subfolder is highlighted. The 'Include subfolders' checkbox is checked. The 'Confirm' button is highlighted in blue.

Patent No.	Title	Pub./Issue Date	Appl. No.	Appl. Date
HUT46798A	SMOKE DETECTOR	1988-11-28	19860004736	1986-11-17
HUT46797A	OPTICAL DEVICE FOR SMOKE DETECTORS	1988-11-28	19860004735	1986-11-17
IE940134A2	Smoke detector	1994-05-18	940134	1994-02-14
IE9602002	Smoke detector	1994-05-18	940134	1994-02-14
US933920	Smoke detector having variable level sensitivity	1992-05-12	07/390713	1989-07-11
US932105	Forward scatter smoke detector	1988-04-01	06/672462	1984-11-19
AUPN809696D0	Relocation of battery and test switch from battery operated smoke detector	1996-03-07	1996PN08096	1996-02-16
AUPN365995D0	Smoke detector operated isolating switch	1995-07-13	1995PN03659	1995-06-20
AUPM733494D0	Smoke detector activated lift of window roller shutters	1994-09-01	1994PM07334	1994-08-09
AUPM679594D0	Smoke detector activated automatic lift of window roller shutters	1994-08-04	1994PM06795	1994-07-14
JPH08-284301A	CEILING APPARATUS UNIT	1996-10-29	H07-089103	1995-04-14
JPH08-284290A	OFFICE STRUCTURE	1996-10-29	H07-091201	1995-04-17

- For the X-axis and Y-axis, select your desired parameter(s) from the Data Field dropdown. These will be the items that will populate in the spreadsheet. Then, click on the **Start** button.



Please select the X-axis and Y-axis variables to generate your report

Depending on the amount of data, it may take a few minutes to process and display the Patent Matrix. An example of the Patent Matrix is shown below. As you can see, the X-Axis shows Assignee and Application Year, while Y-Axis shows Legal Status. The orange cells indicate the patent count for that corresponding x and y combination.

Project_20190926_1

OverviewFolder ManagementPatent AnalysisData Grouping

Matrix Chart

SaveExportSelect DataMemoNormalCount: RecordAnalysis ValueText Layout

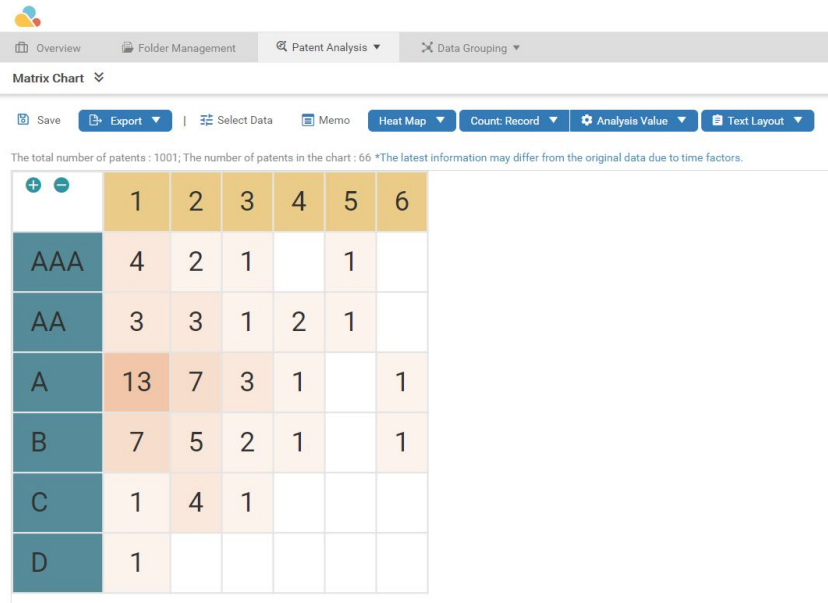
We recommend using a resolution of 1024x768 or above for the best browsing experience.

The total number of patents : 1001. The number of patents in the chart : 218 *The latest information may differ from the original data due to time factors.

2019-9-27 11:38 By Kaye Lee Test 2

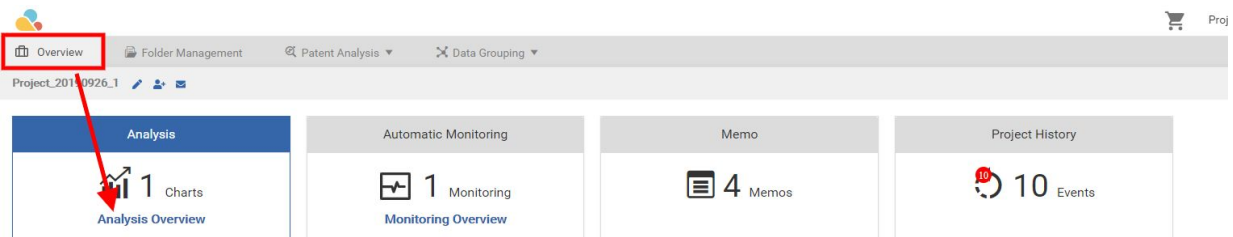
	CERBERUS AG								NOHMI BOSAI KOGYO CO LTD								PITTHWAY CORP								SIEMENS AG													
	1980	1981	1982	1983	1984	1985	1986	1987	1980	1981	1982	1983	1984	1985	1986	1987	1980	1981	1982	1983	1984	1985	1986	1987	1980	1981	1982	1983	1984	1985	1986	1987	1988					
Expired	1	2	3	4			1									1	1	5	3	2	1			1	2	1	2		1	5	1	4		2	1	2		2
Abandoned			1	4	3	2	1	1	1	1	2	2	2	1			1	2		2	1							1	1	1	1					2		
PGPub - Granted				2										1			4	2	1												1	2		2		4		
Released																																						

Heat Map view in Matrix is also possible. Simply click on the Normal (default) dropdown and select Heat Map.



If you want to share a chart to the members in your project, please follow the steps below:


- Go to Overview and in the Analysis box, click on **Analysis Overview**.



- Locate the chart title you want to share. Hover your mouse on the title to see icon shortcuts for Edit and Delete.

The screenshot shows the Chart 2 table with the title "folder vs. Patent Value/Smoke Detector" highlighted. The table has columns for No., Titles, Type, Folder/Dimensions, Count, Memo, Creator, and Date Created.



No.	Titles	Type	Folder/Dimensions	Count	Memo	Creator	Date Created
1.	Legal Status	Basic	Smoke Detector dd.statistics.fields.statusCode;	969 (Records)		Kaye Lee Test 2	2019-09-27 11:24
2.	folder vs. Patent Value/Smoke Detector	Advanced	Smoke Detector X axis folder Y axis Patent Value	462 (Records)		Kaye Lee Test 2	2019-09-27 10:24

7. Click on Edit  and in the Share field, click on On.

Edit

Title: Legal Status

Memo:


Share:  On  Off

If sharing is turned on, members of this project will see this chart.





Cancel

Submit

8. Go to Overview and refresh the webpage. This will then be reflected as an additional record in Analysis.



Project_20190926_1







Overview

Folder Management

Patent Analysis

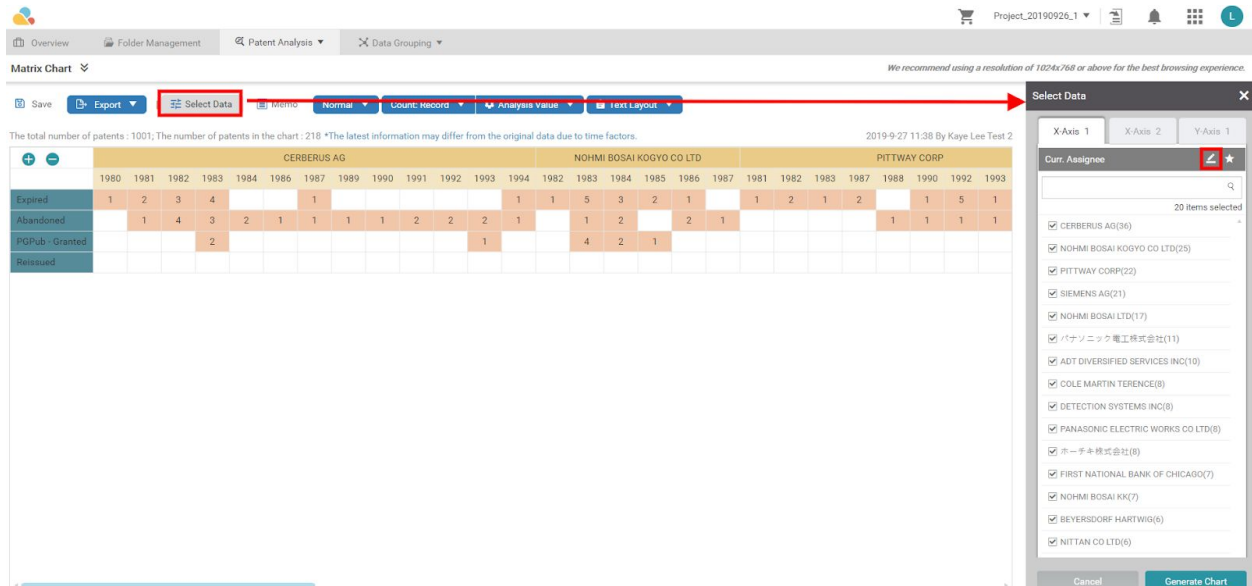
Data Grouping

Chart: 2

No.	Titles	Type	Folder/Dimensions	Count	Memo	Creator	Date Created
1.	 Legal Status	Basic	Smoke Detector dd.statistics.fields.statusCode;	969 (Records)		Kaye Lee Test 2 	2019-09-27 11:24
2.	 folder vs. Patent Value/Smoke Detector	Advanced	Smoke Detector X axis folder Y axis Patent Value	462 (Records)		Kaye Lee Test 2 	2019-09-27 10:24

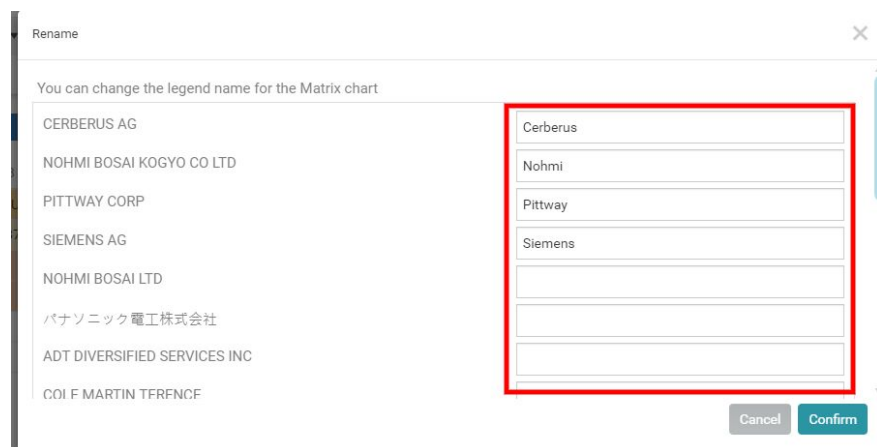
Renaming a Field in the Patent Matrix (Only for Data Fields under Party)

To modify name in analysis, click on **Select Data** then click on the **Rename**  icon.



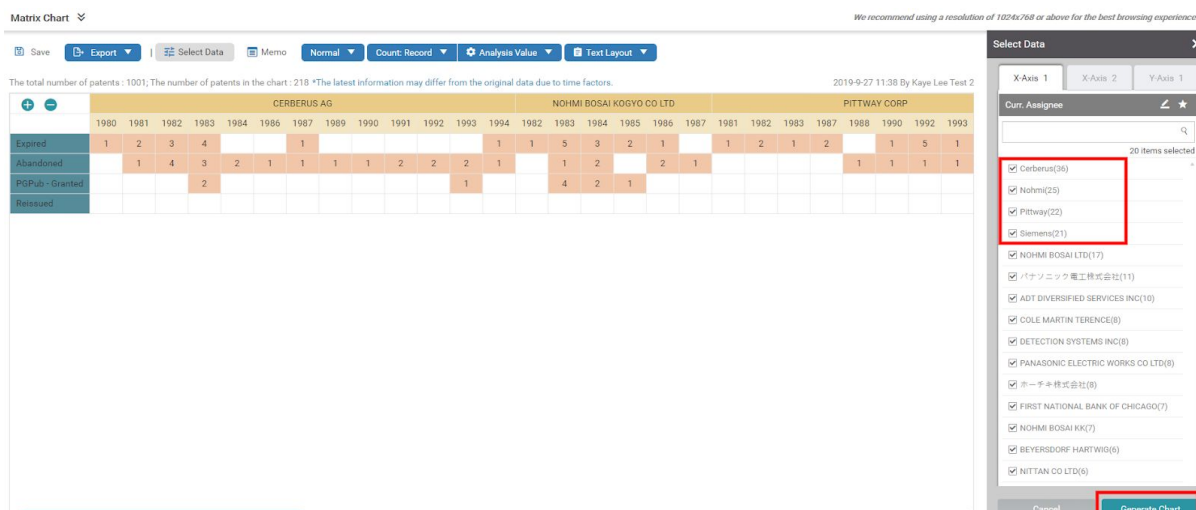
The screenshot shows the 'Patent Analysis' interface. At the top, there's a navigation bar with 'Overview', 'Folder Management', 'Patent Analysis', and 'Data Grouping'. Below this, the 'Matrix Chart' section is active. A red box highlights the 'Select Data' button in the top toolbar. A red arrow points from this button to the 'Select Data' dialog box on the right. The dialog box shows a list of 20 items selected, including CERBERUS AG(36), NOHMI BOSAI KOGYO CO LTD(25), PITTWAY CORP(22), SIEMENS AG(21), NOHMI BOSAI LTD(17), パナソニック電工株式会社(11), ADT DIVERSIFIED SERVICES INC(10), COLE MARTIN TERENCE(8), DETECTION SYSTEMS INC(8), PANASONIC ELECTRIC WORKS CO LTD(8), ホーチキ株式会社(8), FIRST NATIONAL BANK OF CHICAGO(7), NOHMI BOSAI KK(7), BEYERSDOERF HARTWIG(6), and NITTAN CO LTD(6). The 'Generate Chart' button is at the bottom right of the dialog.

Change the names on the field boxes then click **Confirm**.



The 'Rename' dialog box is shown, titled 'Rename'. It contains the text 'You can change the legend name for the Matrix chart'. On the left, there's a list of company names: CERBERUS AG, NOHMI BOSAI KOGYO CO LTD, PITTWAY CORP, SIEMENS AG, NOHMI BOSAI LTD, パナソニック電工株式会社, ADT DIVERSIFIED SERVICES INC, and COLE MARTIN TERENCE. On the right, there's a list of input fields for renaming these companies. The first four fields are pre-filled with 'Cerberus', 'Nohmi', 'Pittway', and 'Siemens'. The last four fields are empty. A red box highlights the input fields. At the bottom right, there are 'Cancel' and 'Confirm' buttons.

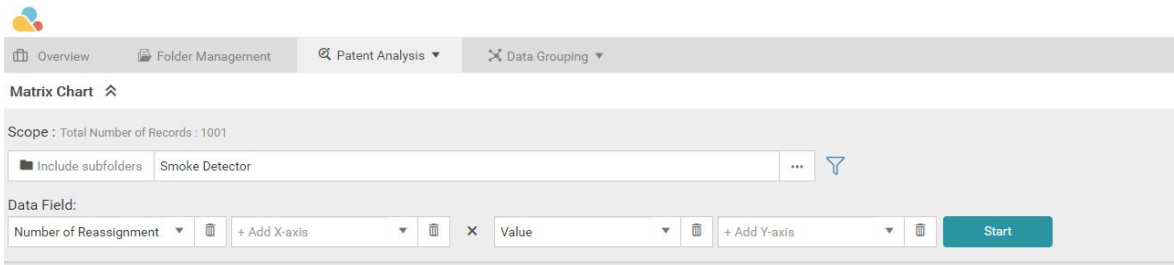
This will automatically reflect in the Select Data panel. Once correct, click on **Generate Chart**.



Patent Assignments with the Patent Matrix

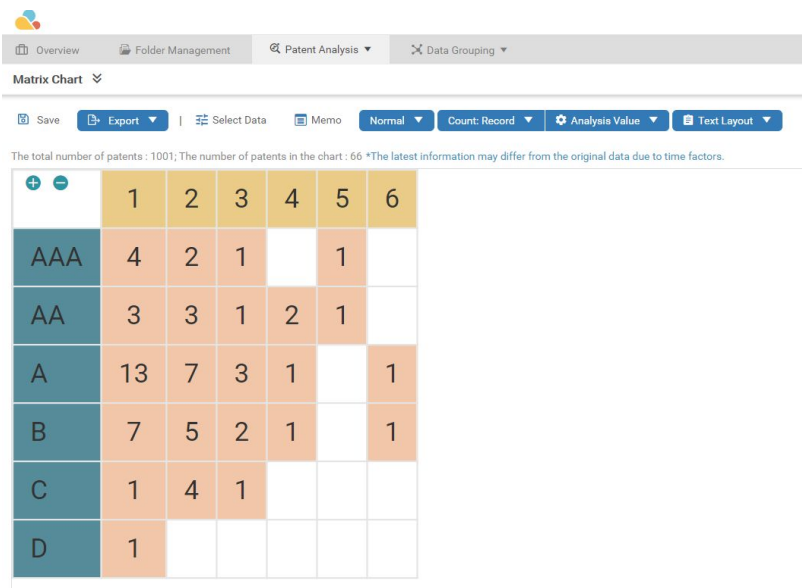
To perform an analysis using assignment data, please follow the steps below:

- 1. Go to the **Advanced Analysis** page on the **Patent Analysis** tab.
- 2. For the X-axis, select a data parameter. In this example, Number of Reassignments has been chosen. For the Y-axis, Value has been selected. Then, click on **Start**.



Please select the X-axis and Y-axis variables to generate your report

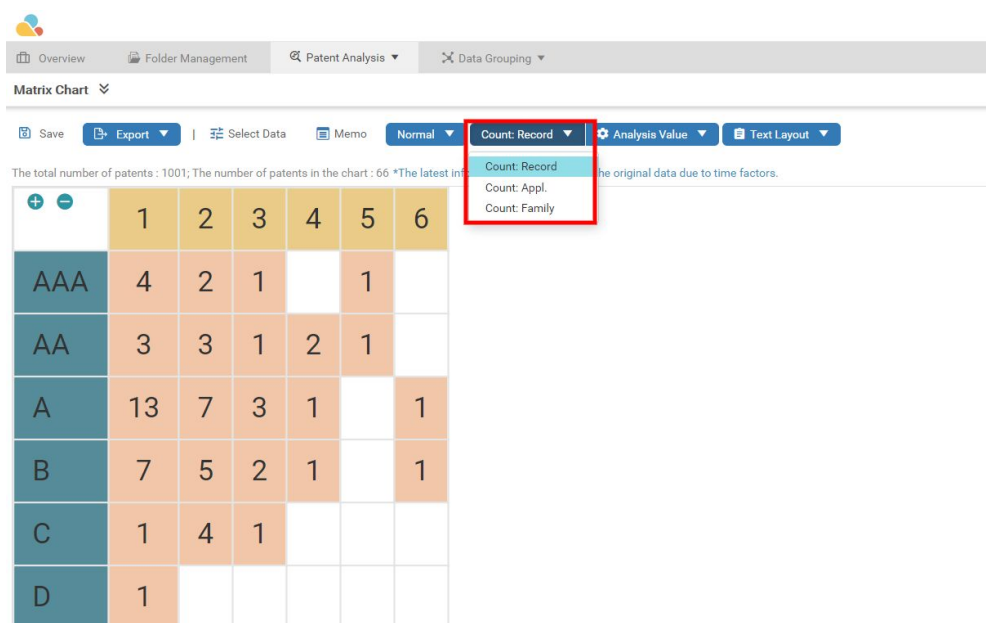
- 3. After a few seconds, you will see the analysis of the parameters you have chosen. In the example below, there is a discrepancy in the total number of patents vs. number of patents in the chart. This could be that some patents have zero reassignment or have no Value ranking.



Family and Application Counts

In the Patent Analysis section, it is possible to sort and count patents by family and applications. Follow the steps below to perform the count function.

1. Go to the **Advanced Analysis** page on the **Patent Analysis** tab.
2. Create a Matrix chart and view the chart.
3. While viewing the chart, click on the **Count: Patents** button, and a menu will drop down. As seen in the photo below, you can select whether to count by application or by family.



Analysis Value

In the Patent Analysis section, it is possible to analyze the matching items with the patents added to the folders. Follow the steps below to perform this function.

1. Go to the **Advanced Analysis** page on the **Patent Analysis** tab.
2. Create a Matrix chart and view the chart.
3. While viewing the chart, click on the **Analysis Value** button, and a menu will drop down. As seen in the photo below, you can select whether to count by patents, by matching patents, or by matches as to why the patents were added.

The screenshot displays the Patent Analysis interface. At the top, there are tabs for Overview, Folder Management, Patent Analysis (selected), and Data Grouping. Below the tabs, the 'Matrix Chart' section is active. It includes buttons for Save, Export, Select Data, Memo, Heat Map, Count: Record, Analysis Value (highlighted with a red box and a red arrow pointing to the dropdown menu), and Text Layout. The Analysis Value dropdown menu is open, showing options: # of Pat. Matches (selected), Other, Abstract, Claim (highlighted with a yellow circle), Figure, and Specification. An Apply button is at the bottom of the menu. Below the menu, a matrix chart is visible with rows labeled AAA, AA, A, B, C, D and columns labeled 1 through 6. The matrix contains numerical values representing matches.

	1	2	3	4	5	6
AAA	4	2	1		1	
AA	3	3	1	2	1	
A	13	7	3	1		1
B	7	5	2	1		1
C	1	4	1			
D	1					

Data Grouping

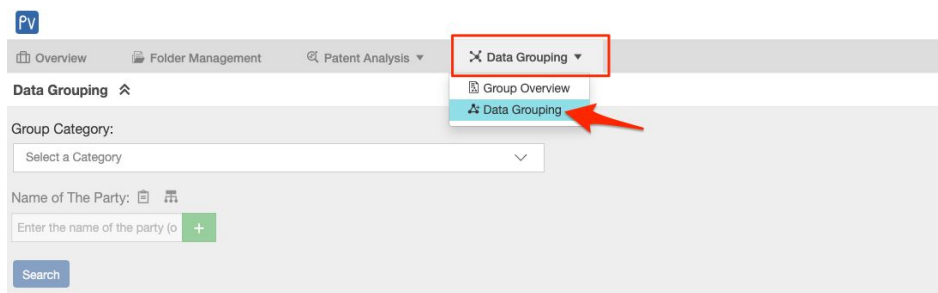
Data Grouping is a feature that enables you to consolidate data together for better visualization. A set of assignees, agencies, agents, inventors, or examiners can be treated as one variable based on your definition.

[Create a Group](#)

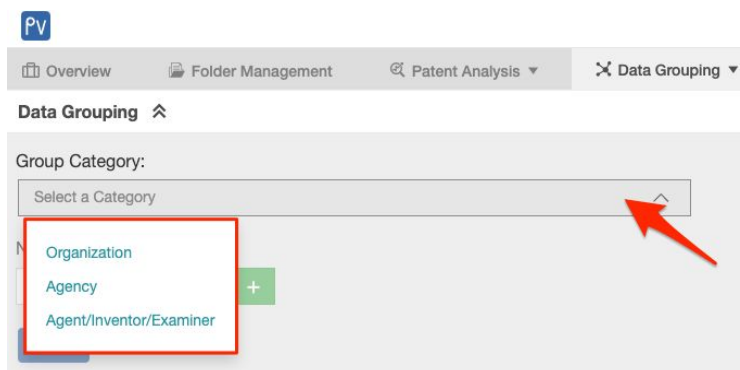
[Use Data Grouping in Analysis](#)

Create a Group

1. Go to Data Grouping.



2. Select the Group Category from the dropdown - if you want to group by Assignee, Agency, or Agent/Inventor/Examiner.



3. Enter the Name of the Party directly in the search box. To view the names you have in your project, click on the Select a Party icon.

Note: You can also use the Corporate Affiliation icon to select affiliates.

Data Grouping

Group Category:

Agency 


Name of The Party:  

Enter the name of the party (o 




4. Use the Filter and tick the checkboxes of the parties you want to combine in a group. Then, click on Confirm.

Note: You may select multiple party names across different filter categories.

Filter 



Assignee	
Assignee (Std)	>
Curr. Assignee	>
Inventor	>
Inventor (Std)	>
Agency	>
Examiner	>
Assignor (RSGMT)	>
Assignee (RSGMT)	>
Agent (RSGMT)	>
Licenser	>
Licensee	>



[Clear Selection](#)

<input type="checkbox"/>	UNITED VIDEO PROPERTIES INC	(2895)
<input type="checkbox"/>	ROVI GUIDES INC	(2833)
<input type="checkbox"/>	TESSERA INC	(1712)
<input type="checkbox"/>	INVENSAS CORPORATION	(1279)
<input type="checkbox"/>	INTERNATIONAL BUSINESS MACHINES CORPORATION	(890)
<input type="checkbox"/>	TIVO INC	(819)
<input type="checkbox"/>	INTERDIGITAL PATENT HOLDINGS INC	(795)
<input type="checkbox"/>	MACROVISION CORP	(561)
<input type="checkbox"/>	ユナイテッド ビデオ プロパティーズ インコーポレイテツ ド	(496)
<input type="checkbox"/>	STARSIGHT TELECAST INC	(494)

[Clear All Filters](#)

5. Once you have selected the parties that you wish to combine, click on Search.

PV

Overview Folder Management Patent Analysis Data Grouping

Data Grouping

Group Category:
Organization

Name of The Party:

united video properties rovi guides tessera Enter the name of the party (o)

Search

6. An Expanded Search Results will be displayed. It will show the number of patents involving the party/ies' names selected and based on the category selected in the previous step.

Review the list and tick the checkboxes for the parties you want to group together. Then, click Save.

The example below shows the count of patents by organization (pledgee, assignee, assignor) for the 3 parties (United Video Properties, Rovi Guides, Tessera).

Expand Search Results

Save

Project Patent Count: 30,709

<input checked="" type="checkbox"/>	Rank	Name	# of Patent
<input checked="" type="checkbox"/>	1	ROVI GUIDES INC	<div><div>Pledgee8719</div><div>Curr. Assignee5942</div><div>Assignee3219</div><div>Assignee (RSGMT)2251</div><div>Assignor (RSGMT)34</div></div>
<input checked="" type="checkbox"/>	2	TESSERA INC	<div><div>Pledgee8414</div><div>Curr. Assignee2897</div><div>Assignee2049</div><div>Assignee (RSGMT)1068</div><div>Assignor (RSGMT)28</div></div>
<input checked="" type="checkbox"/>	3	TESSERA ADVANCED TECHNOLOGIES INC	<div><div>Pledgee8414</div><div>Curr. Assignee746</div><div>Assignee (RSGMT)715</div></div>

7. Create a Group Name and click on Save.

PV

Overview Folder Management Patent Analysis Data Grouping

Data Grouping

Save

Save as a Group

Group Name: Group A

Cancel Save

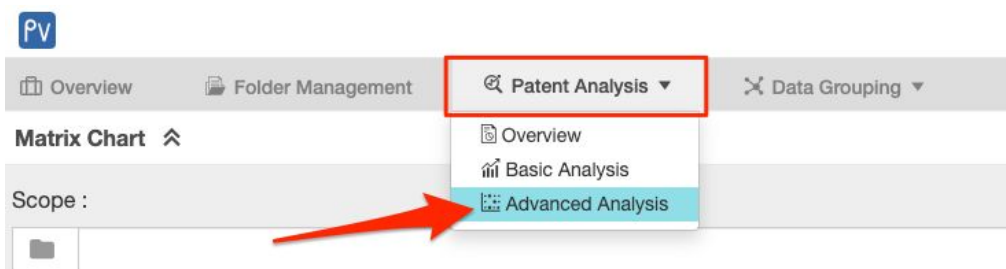
Project Patent Count: 30,709

<input checked="" type="checkbox"/>	Rank	Name	# of Patent						
<input checked="" type="checkbox"/>	1	ROVI GUIDES INC	<table><tr><td>Pledgee</td><td>8719</td></tr><tr><td>Curr. Assignee</td><td>5942</td></tr><tr><td>Assignee</td><td>3219</td></tr></table>	Pledgee	8719	Curr. Assignee	5942	Assignee	3219
Pledgee	8719								
Curr. Assignee	5942								
Assignee	3219								

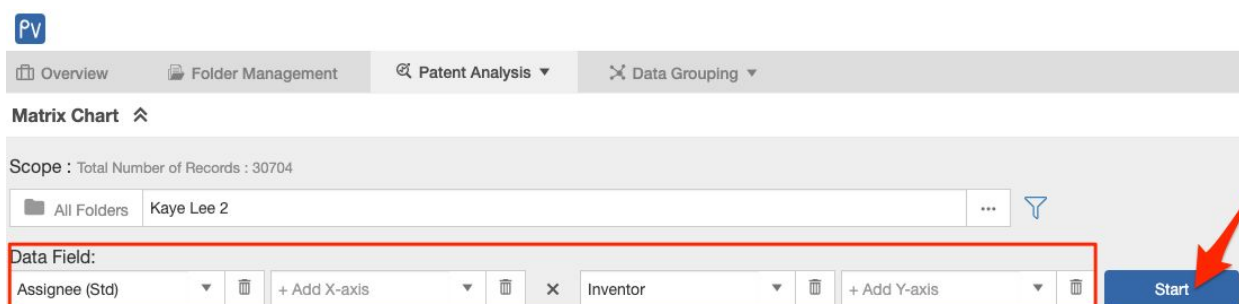
Use Data Grouping in Analysis

Either in Basic or in Advanced Analysis, you can use your saved data groups as individual variables.

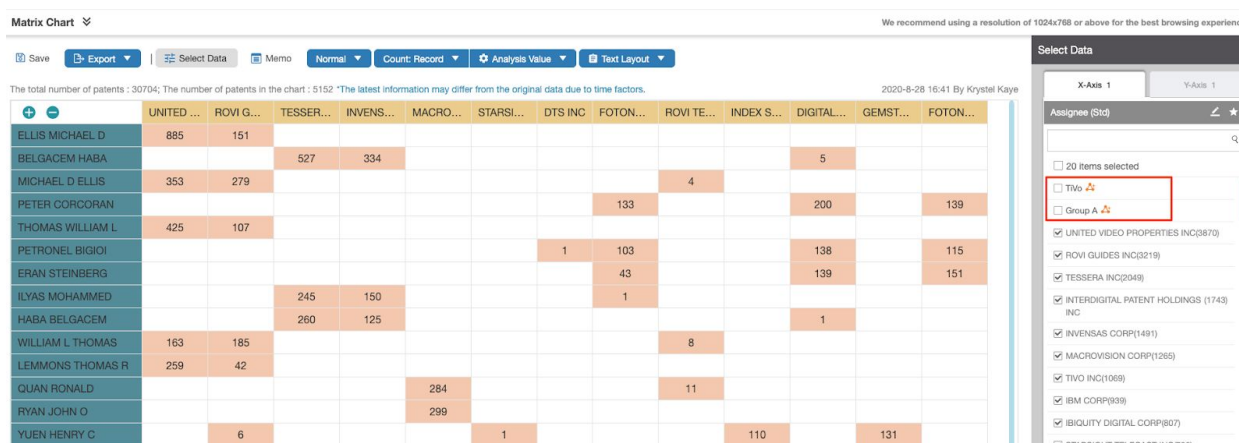
1. Go to Patent Analysis and choose between Basic or Advanced.



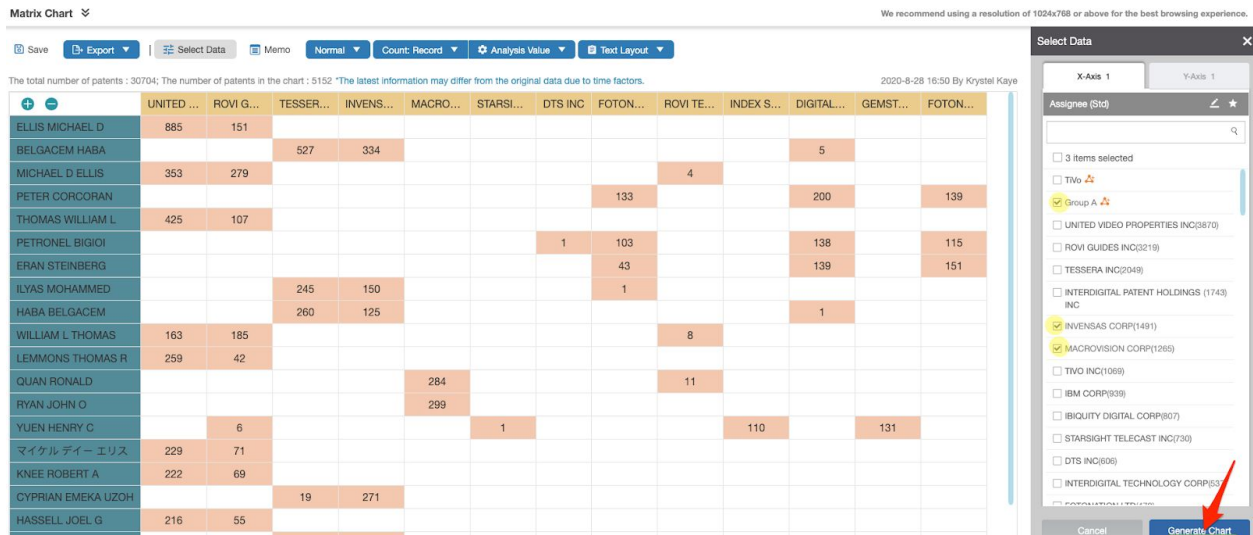
2. Set your parameters. Data groups are only available for assignee, agency, agent, inventor, and examiner.



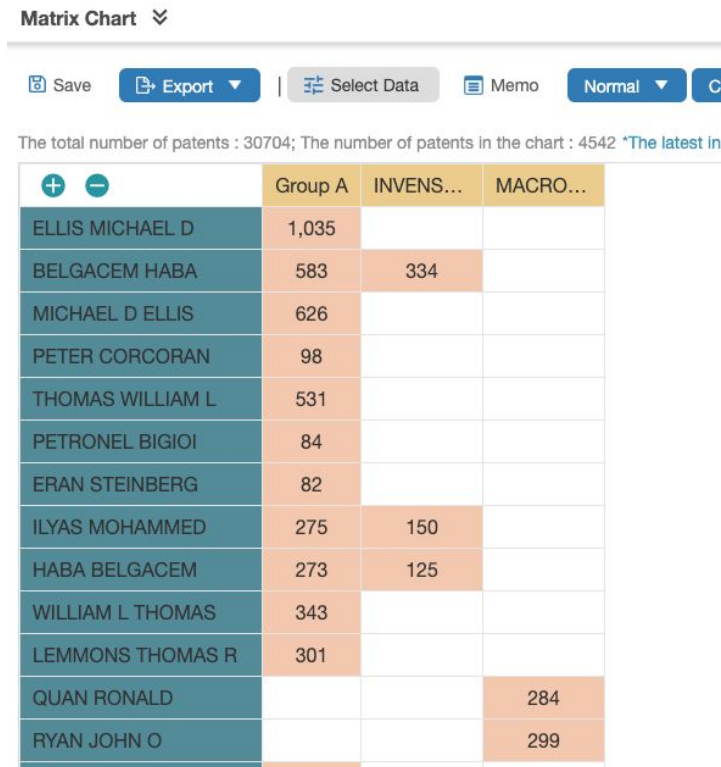
3. Click on Select Data and you will see the data groups that you have created (under Assignee).



4. Select your data group/s and compare it with other party names in the list. Then, click on Generate Chart.




5. A new Matrix Chart will be generated based on your selection.



Export, Import, Save & Add

Export (Patent)


Patent Vault allows users to export search results into a variety of formats, including patent list (.xls and .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 name. Then, click on “Export.”

Export ×


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

Export Items: ☒ All ☐ Range ~

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):10153/1000000000	Full Text (PDF):0/200000	Front Page (PDF):0/200000
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File Name:


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):10153/1000000000	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).

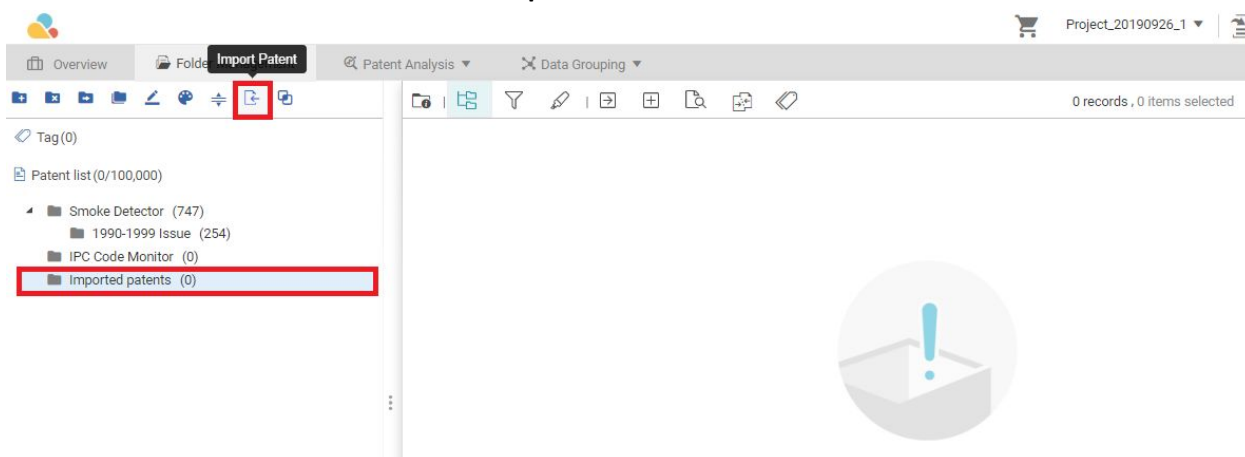
The screenshot displays a patent analysis software interface. On the left, a sidebar shows a hierarchical tree of patent categories, including 'Top', 'Test', 'Toda', 'Nort', 'Quar', 'Epile', 'CAN', 'Auto', 'LED', '4D Ir', '4-D I', 'Fast', 'CO', 'Carb', 'Sph', 'IPC', 'Unitt', 'Coty', 'Unitt', 'GE', 'Appl', 'Med', 'Desi', and 'Anal'. The main area on the right shows a list of patents. The first patent, '1. Systems and methods for predicting response to minoxidil for the treatment of androgenetic alopecia', is highlighted with a red box. Below this, two other patents are visible: 'Systems And Methods For Predicting Response To Minoxidil For The Treatment Of Androgenetic Alopecia' and '2. HAIR GROWTH AND/OR REGROWTH COMPOSITIONS'.

Patent No.	Assignee	Applicant	Inventor
US8669151B2	Global Life Science Part...	Phillip Y. Tam	Phillip Y. Tam
US20120077214A1	GOREN ANDY OFER	Andy Ofer Goren	Andy Ofer Goren
US20150105414A1	McNeil-PPC, Inc.	Longsheng Hu	Longsheng Hu

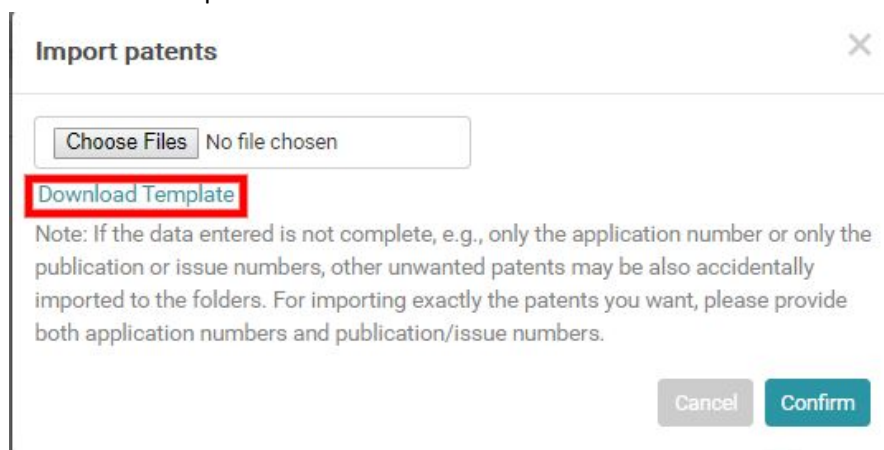
Import Patents to Patent Vault

To import patents, please follow the steps below:

1. Open Patent Vault and click on your Project.
2. In the Folder Management tab, select or add a new folder to import patents to. Make sure to click on a folder then click on the **Import Patent** icon.



3. Click on Download Template.



4. Please follow the rules on the template to fill in a patent number and/or application number. You must fill in at least one of these, or you won't be able to upload to Patent Vault. For importing exactly the patents you want, please provide both the application numbers and publication/issue numbers.

Rules for Filling in Information

- [illegible]

- Import patents

Choose Files

No file chosen

[Download Template](#)

Note: If the data entered is not complete, e.g., only the application number or only the publication or issue numbers, other unwanted patents may be also accidentally imported to the folders. For importing exactly the patents you want, please provide both application numbers and publication/issue numbers.

Cancel

Confirm

Add to Project in Patent Vault

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

[Selecting patents](#)

[Adding patents into a project](#)

Selecting patents

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

Select Folder

Select Project

Select Folder

Patent list

Del. Addition Synthesis

Untitled folder

Import Options: ☐ Representative Patent Only ?

*Exclude patents already in this folder by Publication/Issue Number

Memo (Optional)* Any new editing will be added to the folder memo

Patents are added according to...

Others You can memo why patents are added

Cancel Confirm

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
- 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, Alfonso Amelio, David Katz

Pub./Issue Date: 2020-03-12

Appl. No.: 16/679853

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, Alfonso Amelio, David Katz

Pub./Issue Date: 2019-11-12

Appl. No.: 15/633712

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, Alfonso Amelio, David Katz

Pub./Issue Date: 2017-12-28

Appl. No.: 15/633712

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: AMFI I/O, Paul Applicant: AMFI I/O, Paul Inventor: AMFI I/O, Paul

Pub./Issue Date: 2017-12-28

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

Adding patents into a project

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

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
- Quality
- Value
- IPC
- CPC
- Locarno
- USPC
- FI
- Agency
- Examiner
- Kind Code

9,615 records (0.04 seconds) Sort By: \$

1. System and Method for Effecting [Smoke Detector](#) Data Transmission from a [Smoke Detector](#)

Patent No.: [US20190081814A1](#) Assignee: 4Morr Enterprises IP, LLC Applicant: 4Morr Enterprises IP, LLC Inventor: Michael Orr

Pub./Issue Date: 2019-03-14

Appl. No.: 16/130923

Appl. Date: 2018-09-13

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 [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 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

2. [Smoke Detector](#) Methods And Systems

Patent No.: [US20180308346A1](#) Assignee: Siemens Schweiz AG Applicant: Siemens Schweiz AG Inventor: Martin Allemann, Erwin Suter, Thomas Bachelis, Aleksander Duric

Pub./Issue Date: 2018-10-25

Appl. No.: 15/955969

Appl. Date: 2018-04-18

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](#) (device). 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](#)

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

Select Folder

Select Project
Project_20190926_1

Select Folder

Patent list

- Smoke Detector
 - 1990-1999 Issue
 - IPC Code Monitor
 - Imported patents

*Exclude patents already in this folder by Publication/Issue Number

Memo (Optional)* Any new editing will be added to the folder memo

Patents are added according to...

Others You can memo why patents are added

Cancel Confirm

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

Select Folder

Select Project
Project_20190926_1

Select Folder

Patent list

- Smoke Detector
 - 1990-1999 Issue
 - IPC Code Monitor
 - Imported patents

*Exclude patents already in this folder by Publication/Issue Number

Memo (Optional)* Any new editing will be added to the folder memo

Patents are added according to...

Others You can memo why patents are added

Cancel Confirm

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

The screenshot displays the Patent Vault application interface. The top navigation bar includes 'Overview', 'Folder Management' (highlighted with a red box), 'Patent Analysis', and 'Data Grouping'. The left sidebar shows a tree view with 'Patent list (1,001/100,000)' (highlighted with a red box) and a sub-folder 'Smoke Detector (747)' containing '1990-1999 Issue (254)'. The main area shows a table of 18 patents, each with a checkbox, a patent number, a title, and a publication/issue date. The table is titled '1,001 records, 0 iter'. At the bottom, there is a pagination bar with 'Prev', '1' (selected), '2', '3', '4', '5', '6', '7', '8', '9', '10', and 'Next'.

#	Patent No.	Title	Pub./Issue Date
1	HUT46798A	SMOKE DETECTOR	1988-11-28
2	HUT46797A	OPTICAL DEVICE FOR SMOKE DETECTORS	1988-11-28
3	IES940134A2	Smoke detector	1994-05-18
4	IES60020B2	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	AUPN80966D0	Relocation of battery and test switch from battery operated smoke detector	1996-03-07
8	AUPN36599S00	Smoke detector operated isolating switch	1995-07-13
9	AUPM733494D0	Smoke detector activated lift of window roller shutters	1994-09-01
10	AUPM67994D0	Smoke detector activated automatic lift of window roller shutters	1994-08-04
11	JPH08-284301A	CEILING APPARATUS UNIT	1996-10-29
12	JPH08-284290A	OFFICE STRUCTURE	1996-10-29
13	JPH08-202970A	METHOD FOR SETTING UP OPTIMUM THRESHOLD OF HIGHLY SENSITIVE SMOKE DETECTOR	1996-08-09
14	JPH08-202969A	METHOD FOR DETECTING DETERIORATION OF SCATTERED LIGHT TYPE SMOKE DETECTOR	1996-08-09
15	JPH08-201263A	SMOKE DETECTOR	1996-08-09
16	JPH08-201246A	OPTIMUM ARRANGEMENT OF SAMPLING PIPE FOR HIGH-SENSITIVITY SMOKE DETECTOR	1996-08-09
17	JPH08-182162A	METHOD FOR CONNECTING WIRING OF CEILING APPARATUS	1996-07-12
18	JPH08-180277A	ELECTRONIC APPARATUS ABNORMALITY DETECTION AND DISPLAY DEVICE	1996-07-12

Family Expansion (Add Patents)

It is also possible to import and search for patents using family identification. To do this, please follow the steps below:

1. Within a Project, select the **Folder Management** option.
2. Next, select the folder you would like to import the patent family into.
3. Click on the **Add Patents** button, and select the **By Importing Patent Family** option.

#	Patent No.	Pub./Issue Date	Appl. No.	Appl. Date
1	HUT46798A	1988-11-28	19860004736	1986-11-17
2	HUT46797A	1988-11-28	19860004735	1986-11-17
3	IES940134A2	1994-05-18	S940134	1994-02-14
4	USRE32105	1986-04-01	06/672462	1984-11-19
5	AUPN809696DQ	1996-03-07	1996PN08096	1996-02-16
6	AUPN365995DQ	1995-07-13	1995PN03659	1995-06-20
7	AUPM733494DQ	1994-09-01	1994PM07334	1994-08-05
8	AUPM679594DQ	1994-08-04	1994PM06795	1994-07-14
9	JPH08-284301A	1996-10-29	H07-089103	1995-04-14
10	JPH08-284290A	1996-10-29	H07-091201	1995-04-17

4. The **Patent Family Expansion** window will appear.

Patent Family Expansion

Folder: Company Portfolio
☐ Include subfolders

Data Type: ☒ Appl. No. ☐ Simple Family ☐ Extended Family

Country: ☐ Any Country [Collapse](#)

<input type="checkbox"/> US - United States	<input type="checkbox"/> CN - China	<input type="checkbox"/> EP - EPO
<input type="checkbox"/> WO - WIPO	<input type="checkbox"/> JP - Japan	<input type="checkbox"/> TW - Taiwan
<input type="checkbox"/> IN - India	<input type="checkbox"/> EM - EUIPO	<input type="checkbox"/> AU - Australia
<input type="checkbox"/> BR - Brazil	<input type="checkbox"/> CA - Canada	<input type="checkbox"/> CH - Switzerland
<input type="checkbox"/> DE - Germany	<input type="checkbox"/> DK - Denmark	<input type="checkbox"/> ES - Spain
<input type="checkbox"/> FI - Finland	<input type="checkbox"/> FR - France	<input type="checkbox"/> GB - United Kingdom
<input type="checkbox"/> ID - Indonesia	<input type="checkbox"/> IL - Israel	<input type="checkbox"/> IT - Italy
<input type="checkbox"/> KR - Korea	<input type="checkbox"/> MY - Malaysia	<input type="checkbox"/> NL - Netherlands
<input type="checkbox"/> RU - Russia	<input type="checkbox"/> SE - Sweden	<input type="checkbox"/> ZA - South Africa

Save to: ☒ To the current position ☐ Select another folder [Select Folder](#)

[Cancel](#) [Confirm](#)

5. Select whether you would like to import by Application Number, by Simple Family, or by Extended Family. Choose the country/ies and the folder you want to save it to. Then, click Confirm.
6. After processing, the newly imported family of patents will appear in the designated folder.

Citation Expansion (Add Patents)

Citation Expansion is used to find patents that have been cited by a specific patent or to find if that specific patent has been cited by other patents. To use Citation Expansion, please follow the steps:

Within a Project, select the **Folder Management** option.

1. Next select the sub-folder you would like to import the patent data into.
2. Click on the **Add Patents** button, and select the **By Importing Citations** option.

The screenshot shows the 'Patent Analysis' interface. At the top, there's a navigation bar with 'Overview', 'Folder', and 'Add Patents'. The 'Add Patents' dropdown menu is open, showing two options: 'By Importing Patent Family' and 'By Importing Citations'. The 'By Importing Citations' option is highlighted with a red arrow. Below the menu, a table lists 10 patents with columns for Patent No., Title, Pub./Issue Date, Appl. No., and Appl. Date. The first patent is HUT46798A, titled 'OPTICAL DEVICE FOR SMOKE DETECTORS'.

#	Patent No.	Title	Pub./Issue Date	Appl. No.	Appl. Date
1	HUT46798A	OPTICAL DEVICE FOR SMOKE DETECTORS	1988-11-28	19860004736	1986-11-17
2	HUT46797A	OPTICAL DEVICE FOR SMOKE DETECTORS	1988-11-28	19860004735	1986-11-17
3	IES940134A2	Smoke detector	1994-05-18	S940134	1994-02-14
4	USRE32105	Forward scatter smoke detector	1986-04-01	06/672462	1984-11-19
5	AUPN809696D0	Relocation of battery and test switch from battery operated smoke detector	1996-03-07	1996PN08096	1996-02-16
6	AUPN365995D0	Smoke detector operated isolating switch	1995-07-13	1995PN03659	1995-06-20
7	AUPM733494D0	Smoke detector activated lift of window roller shutters	1994-09-01	1994PM07334	1994-08-09
8	AUPM679594D0	Smoke detector activated automatic lift of window roller shutters	1994-08-04	1994PM06795	1994-07-14
9	JPH08-284301A	CEILING APPARATUS UNIT	1996-10-29	H07-089103	1995-04-14
10	JPH08-284290A	OFFICE STRUCTURE	1996-10-29	H07-091201	1995-04-17

3. The **Citation Expansion** window will appear. Select whether you would like to import All Backward Citation, Backward Citation by Examiner, All Forward Citation, or Forward Citation by Examiner. Choose the country/ies and the folder you want to save it to. Then, click Confirm.

The 'Citation Expansion' dialog box is shown. It has a 'Folder' field set to 'test' and an 'Include subfolders' checkbox. The 'Citation Type' section has four radio buttons: 'All Backward Citation', 'Backward Citation by Examiner', 'All Forward Citation', and 'Forward Citation by Examiner'. The '# of Citation ≥' field is empty. The 'Country' section has a 'Any Country' checkbox and a 'Collapse' button. Below this, there are 18 checkboxes for various countries: US - United States, WO - WIPO, IN - India, BR - Brazil, DE - Germany, FI - Finland, ID - Indonesia, KR - Korea, RU - Russia, CN - China, JP - Japan, EM - EUIPO, CA - Canada, DK - Denmark, FR - France, IL - Israel, MY - Malaysia, SE - Sweden, EP - EPO, TW - Taiwan, AU - Australia, CH - Switzerland, ES - Spain, GB - United Kingdom, IT - Italy, NL - Netherlands, and ZA - South Africa. At the bottom, there are 'Save to:' options: 'To the current position' (selected) and 'Select another folder'. There are also 'Cancel' and 'Confirm' buttons.

4. After processing, the newly imported patent citation data will appear in the designated folder.

January 21, 2021