



入门指南

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→ 开始使用Patent Search

→ 开始专利检索

简易检索

高级检索

语意检索

号码检索

检索历史

→ 检索结果

工具: 进阶筛选, 萤光笔, 比对, 合并,, 统计图表,, 汇出,, 扩展, 标签, 加入
专案,, 转送至

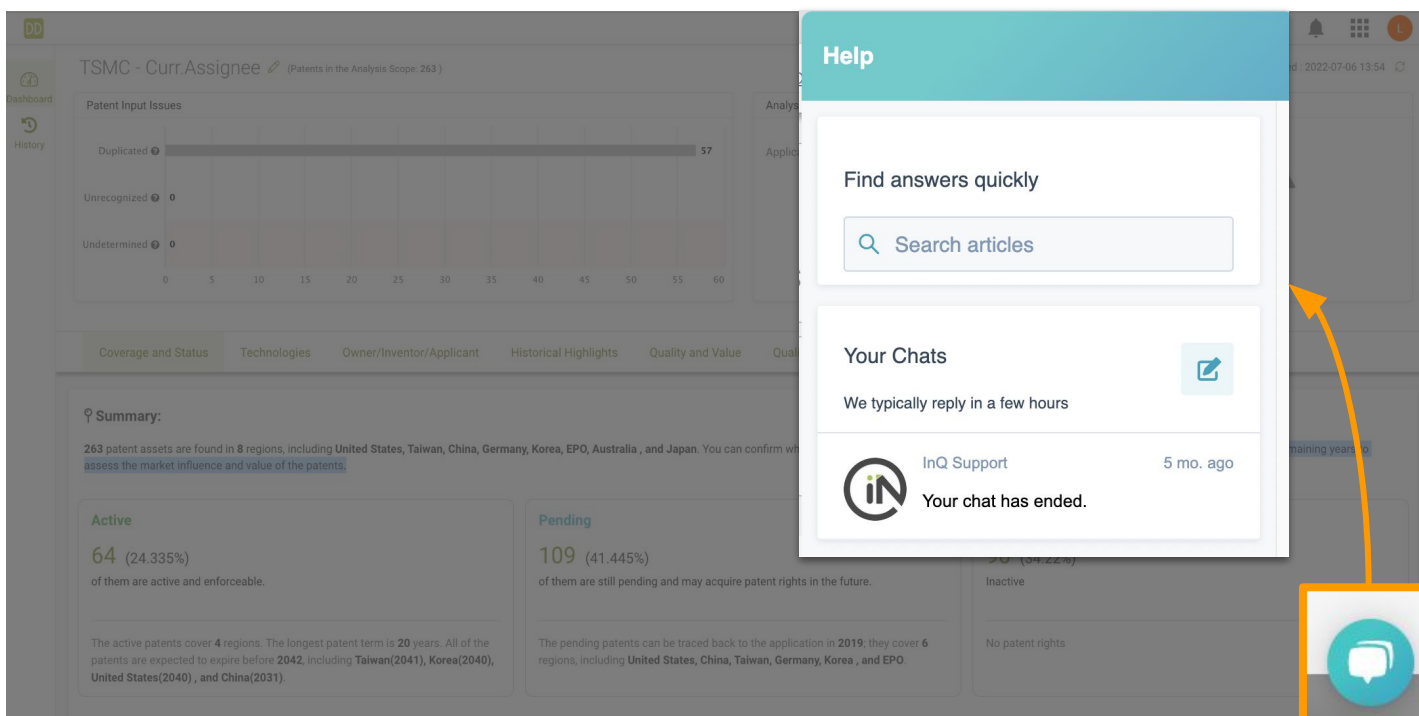
→ 更多专利工作利器

→ 附录

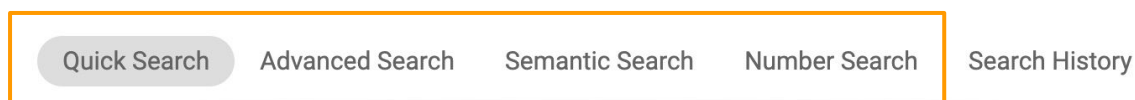
点击右上九宫格并选择 Patent Search



任何问题，随时联系我们！



Patent Search 提供了几种不同的检索方法，适合我们所有用户的需要。



点击分页，选择你想要的搜寻方式。

- 使用[简易检索](#)来做 [关键字检索](#) 或用 [智能检索](#)找相关的想法。
- 使用 [高级检索](#)使用进阶检索来预览结果的数量，并过滤/合并您的搜索查询。
- 使用 [语意检索](#) 来寻找具有语意相似性的关键词概念。
- 使用[号码检索](#) 来搜索专利/申请号或上传专利列表。

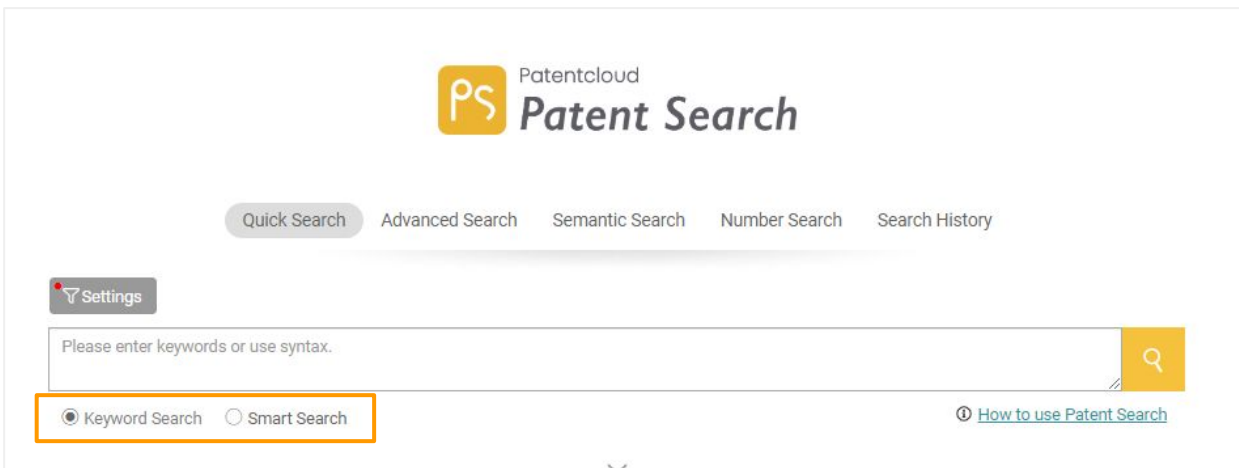
在简易检索分页下有两种搜索专利的方法：

1. 关键字检索

只需在搜索栏中输入一个关键字就能获得结果。

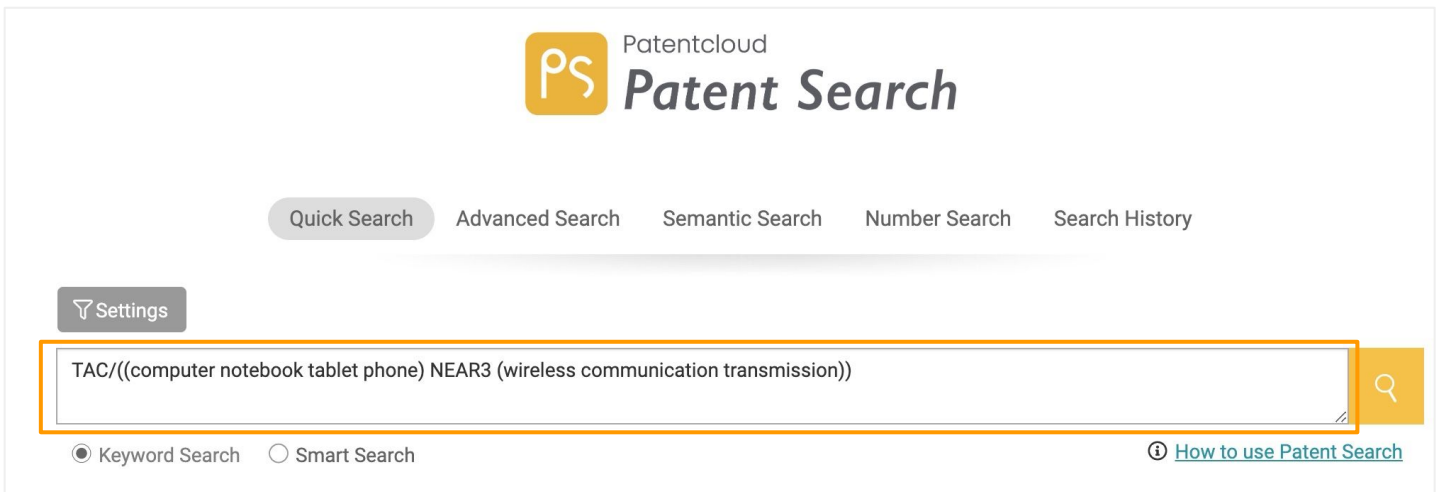
2. 智能检索

不需输入任何语法，对原始查询的相关字词和同义字词进行关键字词搜索。



关键字检索

在搜索框中输入你的搜索条件，然后点击搜索图标，进入搜索结果页面。你也可以使用关键字词搜索语法和布尔运算符(NOT/AND/OR)来获得更准确的结果(见下页)。



详细 [语法关键字词](#)。

点击下拉箭头，输入更具体的关键字词以获得更精确的搜索结果。

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

- 1**: A dropdown arrow icon next to the search input field.
- 2**: A menu of Boolean operators: AND (checked), OR, and NOT.
- 3**: A dropdown arrow next to the 'Abstract' field.
- 4**: A 'Convert to Query' button.
- 5**: A magnifying glass search icon.

Two text boxes provide additional instructions:

- Box 1: "+ 加栏位来为你的检索式加更多的条件。" (Add fields to add more conditions to your search query.)
- Box 2: "选择图标以增加更多查询方式，方便输入。例如 关键词扩展，公司组织关联性检索，分类检索，等等。" (Select icons to add more query methods for easier input. For example, keyword expansion, company organization relationship search, classification search, etc.)

步骤:

1. 点击下拉箭头，显示更多的搜索过滤器。
2. 选择一个布林运算符。
3. 从下拉列表中选择搜索参数。
4. 在你完成所有标准的设置后，点击**转换成检索字符串**，然后该查询将以正确的检索式呈现在上面的搜索框中。
5. 点击 "搜索" 图标，开始搜索。

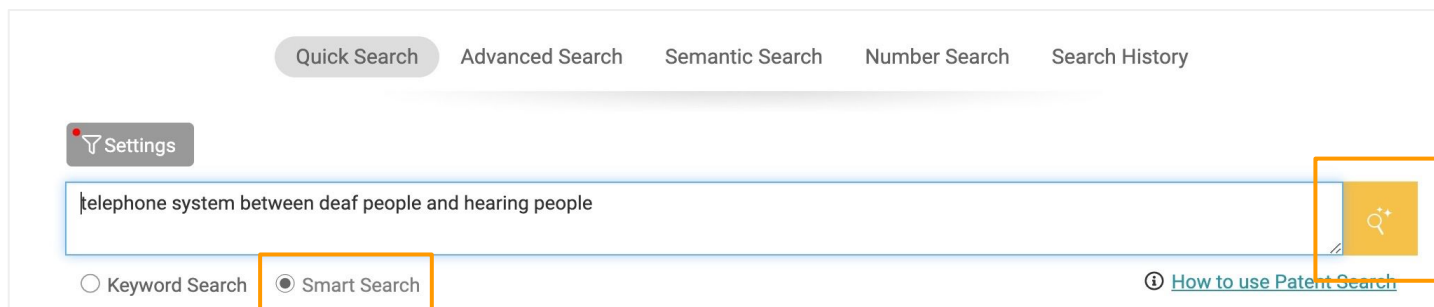
语法关键字词

语法关键词提供了一个常用的搜索语法的列表。你可以直接点击你要使用的语法，然后再点击你的搜索查询。要访问这个语法框，只需在搜索框中输入任何已知的USPTO搜索语法或一个/，列表弹窗就会自动出现。

详细 [语法关键字词](#)。

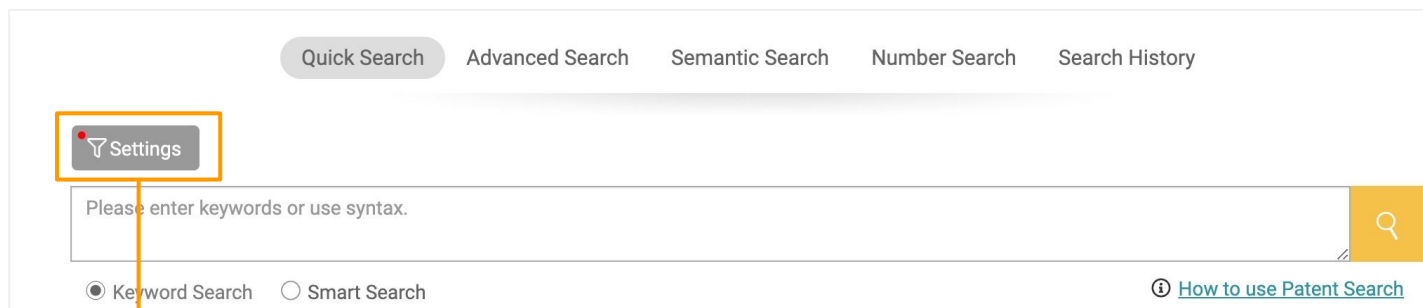
智能检索

在机器学习的应用下，智能检索根据对重要的人类语言元素的关联给出相关结果。使用智能检索搜索所有相关关键词不需要输入任何语法。



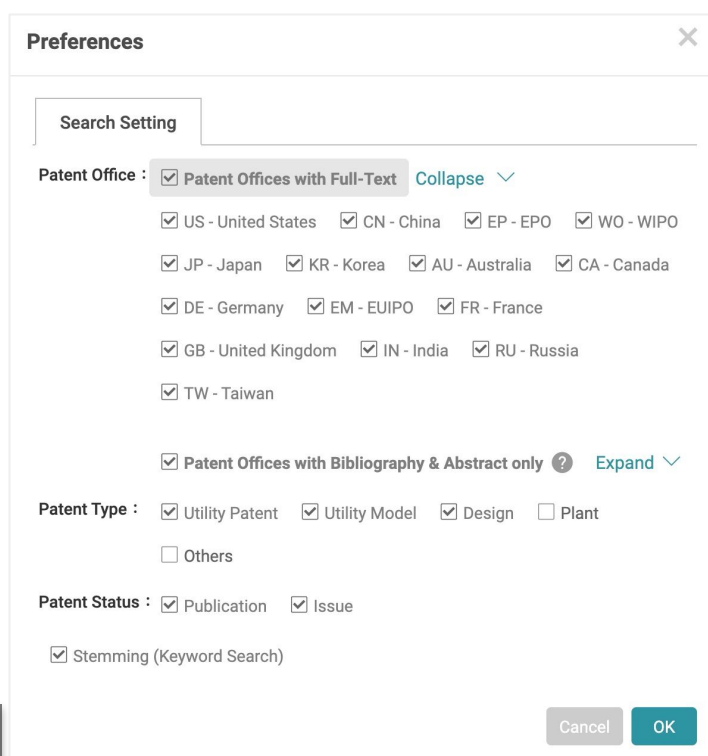
在简易检索分页下选择智能检索, 在搜索栏中输入你的文本查询(不含任何语法), 然后点击搜索图标。

在开始搜索之前，可以定制您的专利局、专利类型和法律状态的搜索偏好。在简易检索、高级检索和检索结果页面下可以访问这些设置偏好。

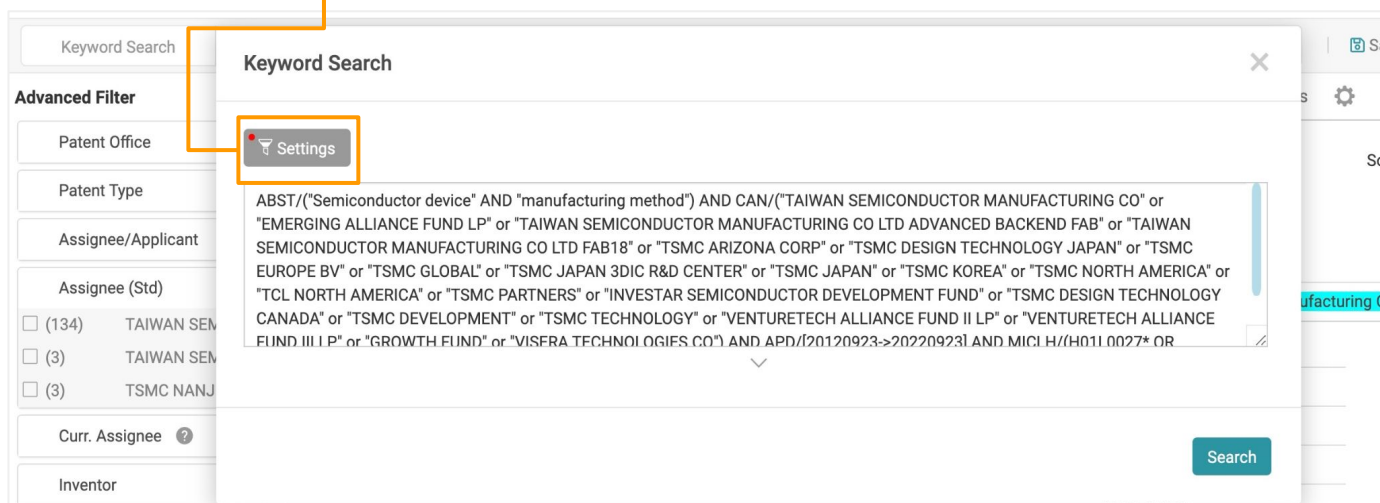


所有偏好都在默认设置下选择。

一旦某个(些)项目被取消勾选，就会显示一个红点，表示默认设置的改变。



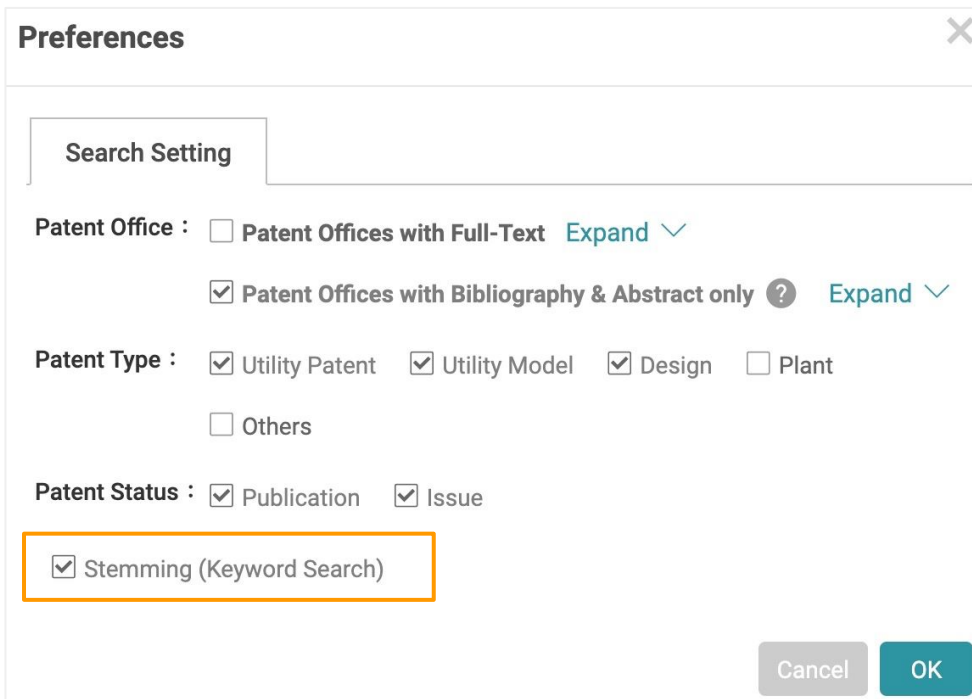
你也可以修改搜索结果页面上的设置，用调整后的设置重新搜索。



以下是关于Patent Search 的设置的一些更多信息。

专利局 (PTO) :

除了来自澳大利亚、中国、加拿大、EPO、EM、法国、德国、日本、韩国、英国、台湾、印度、俄罗斯和WIPO的专利数据拥有全文文件外，大多数专利数据都是从DOCDB收集的，主要包括书目、摘要和同族专利数据。*



Preferences [X]

Search Setting

Patent Office : Patent Offices with Full-Text [Expand](#) Patent Offices with Bibliography & Abstract only [Expand](#)

Patent Type : Utility Patent Utility Model Design Plant Others

Patent Status : Publication Issue

Stemming (Keyword Search)

[Cancel](#) [OK](#)

词性变化:

当启用词性变化功能时，专利检索结果将包括与您的检索词同根的词。这有助于扩大您的搜索范围。例如，如果搜索词是“寻找”，您将得到一个包括“looking”、“look”或“looked”的结果，因为它们有相同的词根--“look”。此功能不能应用于任何带有通配符 (“*”或“?”) 的搜索词。



Stop Words (停用词)

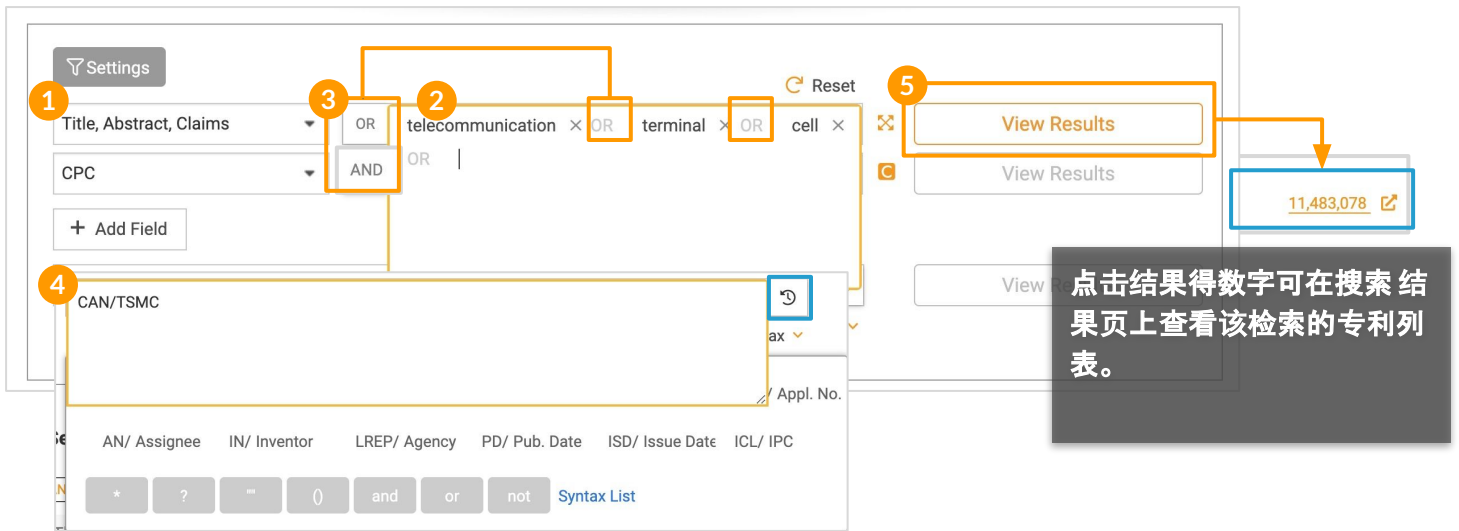
“a”，“the”，“of”等词语是「停止词」。这些词语经常出现，但作为检索词没有功用。因此，这些「停止词」在Patentcloudc 中是不可被检索的术语。

* 造访Patentcloud的 [资料即时性与完整性](#) 页面了解我们的专利数据库。

高级检索 提供一个“查看结果”功能，让你预览搜索结果中的专利数量。在进行搜索之前，你可以在高级检索页面上合并、过滤和查看匹配结果，以提高准确性。

建立检索

在高级搜索页面的顶端部分，你可以建立检索并预览结果。

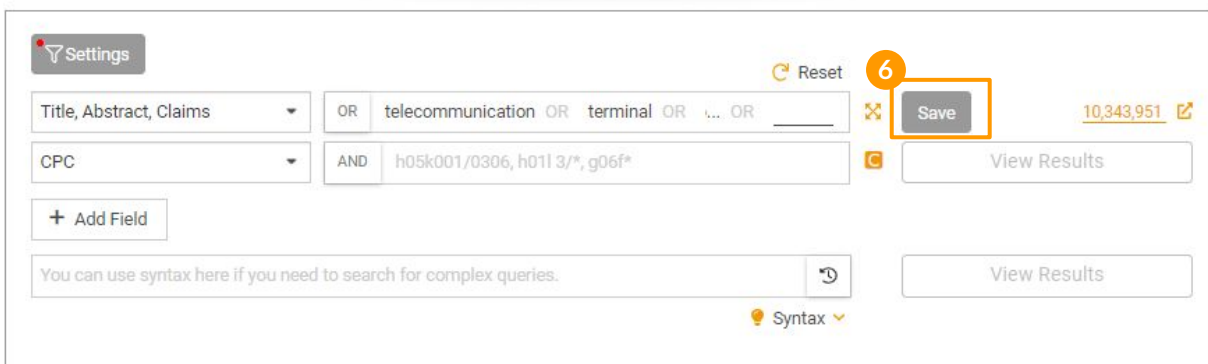


步骤:

1. 由下拉选单选择栏位范围。
2. 在旁边的检索框中输入关键字。如果有多个关键字，字间以空格来区隔(不用标点符号)。
3. 请选择布尔逻辑语法(AND / OR)表示关键字间的关联性。

或是:

4. 你可以直接输入语法代码组成检索式([语法关键字词](#))。
5. 点选“查看结果”在右侧检视符合条件的专利检索结果。
6. 你可以通过点击“保存”将此查询行和结果保存到下面的检索报告中，以便以后合并查询，或者点击“重置”开始一个新的查询。



检索报告

在"进阶检索"页面的下半部,你可以将你保存的检索式合并,在"搜索报告"框中查看结果。

Search Report

1 Combination Export Save History

3 AND OR NOT Clear all
29 AND 21

2

No.	Field	Keywords	Optimum Query ?	Boolean	Result	Delete
29 2022-09-27 11:52		MEDICAL OR FARNESOL OR therapy OR ULTRASONIC OR PORTABLE OR bio* OR DIAGNOSTIC OR oven OR cook* OR Microfluidic OR antibody OR "QUANTUM DOT" OR PHOTOVOLTAIC OR ANIMATION OR communication OR motor OR 洗衣机 OR 电脑 OR 风扇 OR 空调 OR 冰箱 OR 腕式 OR 输入法 OR 多媒体 OR 手势 OR 眼镜 OR 音乐 OR 超声波 OR "Wi-Fi" OR 手写 OR 触摸 OR 智能家居 OR 音响 OR 扬声器 OR PHOTOGRAPHY OR SPECTRUM OR hearing OR audio OR voice OR broadcast OR transmi*))	Set as Optimum Query		65,270	
21 2019-04-15 13:52		ABST/(ORGANIC) or ACLM/(ORGANIC) or TTL/(ORGANIC)	Set as Optimum Query		1,745,330	

4 View Results

Result: 972 Save

历史纪录: 从"历史纪录"中套用一个已保存的或近期的检索条件。

点击结果得数字可在搜索结果页上查看该检索的专利列表。

合并步骤:

1. 点击上方的**检索式合并**来合并你在搜索报告框中保存的多个检索查询。
2. 并在蓝框内输入你想合并的**检索式序号**(或点该序号数字)。
3. 以布尔语法(NOT/ AND / OR)来连结各检索条件。
4. 单击"查看结果"以获得该组合查询的结果数量。

注意:搜索报告下的字段只调整查询组合,不支持语法搜索。请使用每个查询号码(如步骤2.)来修改您的搜索范围。例如,"1 AND 2 NOT 3"。

其他检索报告功能：

Search Report

Combination

Export

Save

History

导出

将报告导出为Excel(.xlsx)文件。见下列。

No.	Field	Keywords	Boolean	Result	Notes
29		guide OR wireless OR telephon* OR mob		65,270	
21		RGANIC) or ACLM(ORGANIC) or TTL(O		1,745,330	
10	Combination	5 AND 8		70,051	
8		RGANIC) or ACLM(ORGANIC) or TTL(O		1,772,464	
5		M(OLED or "EL layer" or "light-emitting l		127,711	
2	Full Text	"transition mode"	OR	2,890	

This report is generated from www.Patentcloud.com on September 27 ,2022

储存进阶检索报告到检索历史

The screenshot shows the 'Save' button in the top right corner of the search report interface. An arrow points from this button to a 'Save to Search History' dialog box. In the dialog box, the 'Title' field is filled with '20220927'. Below it, the 'Optimum Query' field is empty. A table of search results is displayed, with the first row highlighted. The 'Confirm' button is highlighted with a red box and the number 4.

步骤：

1. 点“设为代表检索式”（即您的合并检索式），此检索式可以在历史检索的近期检索以及储存中被找到。
2. 点击**储存**图标
3. 帮此检索式命名。
4. 最后点选“**确定**”即可。



在你离开页面去做其他工作之前，记得保存你的检索报告。

其他检索报告功能：

Search Report

Combination

Export

Save

History

历史纪录

点击**历史纪录**在高级搜索中访问你所有的最近和保存的检索报告。

Search Report

Combination Export Save History

AND OR NOT Clear all

29 AND 21

30
2022-09-27 18:03
Combin

29
2022-09-27 11:52

History

Code	Type	Title	Query	Details	Result	Operation
S18	Advanced Search	20220927	Check all queries	i	972	🔗
S17	Advanced Search	0323	Check all queries	i	345,714	🔗
S16	Advanced Search	0311-1	Check all queries	i	345,714	🔗
S15	Advanced Search	3/11	Check all queries	i	127,711	🔗
S14	Advanced Search	212121212	Check all queries	i	0	🔗

<< 1 / 4 >> 5 Items Per Page

* Patentcloud automatically saves up to 100 queries.

Close

1. **代码**: 点击进入此特定搜寻的检索结果页面
2. **类型**: 高级检索
3. **标题**: 储存时输入的标题
4. **检索条件**: 点击查看本报告细节及其结果
5. **详细信息**: 检视此报告的设定范围与检索条件
6. **检索结果**: 代表检索式的结果数量
7. **操作**: 点击 "套用" 图标, 将保存的检索报告套用于高级搜索中的搜索报告

了解更多 检索历史相关说明。 [this article](#).



恢复和继续载入检索报告

请在每次使用进高级索时保存你的查询。当你下次回到高级检索页面时，如果没有保存之前的报告，你可以选择恢复上次未保存的报告或开始新的检索。

载入检索报告

请问您是否要加载和继续上次未保存的检索报告？

请注意，一旦点击「否」，Patentcloud 将不会保留这份报告，且无法恢复。

否

是

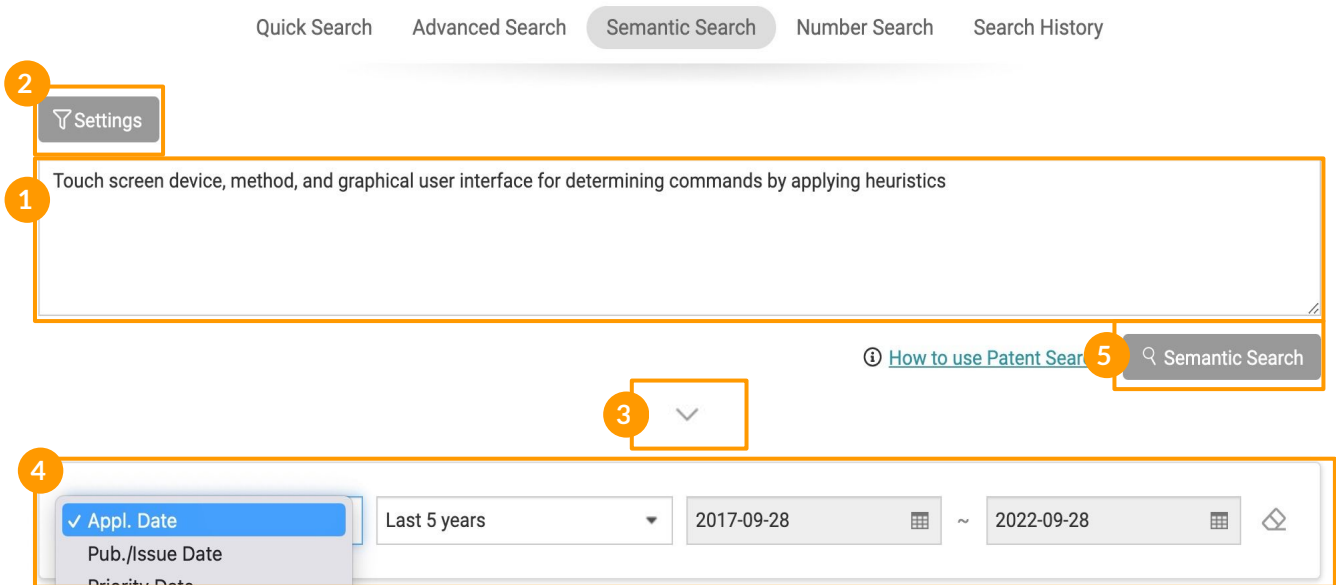
For more details about the functions available in Search History, please see [this article](#).

语意检索是一种专利的检索方式，搜寻结果基于关键字串间的概念，或称为语意相似度，而非只利用完全相同的关键词搜寻结果。

语意检索是基于输入文句或语意内容相似度，而非关键字扩展的相似度。

例如，如果您搜寻 "car" 以及 "road"，语意检索将提供与 "car" 或与 "road" 相关的结果，并同时包含此二关键词的结果也会被优先列出。同时，语意检索也将搜寻其他相关的关键字串，如 "automobile" 和 "street"，但这些结果的优先排序较低。「语意检索」结果的排序是基于 InQuartik 公司自创演算法，计算出这些关键字词语意相似性，搜寻与输入条件概念相似的结果。会将 "automobile" 或 "street" 包括在搜寻结果，是因为它们与 "car" 和 "road" 的概念有关。语意检索不仅拓宽搜寻范围，也增加检索精确度，找出相关性高的专利。

使用语意检索



步骤：

1. 在语意检索查询框中，输入您要搜索的发明概念。您可以输入自然语言文本，或将整个摘要或权利项以英文复制并粘贴到查询框中。
2. 点击 **检索设定**，选择你想搜索的专利局。
3. 点击 **下拉箭头**，设置日期筛选器。
4. 你可以按时间范围缩小你的搜索结果。
5. 点击 **语意检索**，开始搜索并查看结果页面。

语意检索 The Semantic Search Result page

语意检索只会显示相关性最高的前 300 项资料。

搜寻结果可能多于 300 项，但检索结果只会提供相关性最高的前 300 项。语意检索使用 InQuartik 自创的演算法，分析输入字串与找到专利之内文，相关性愈显著的搜寻结果将会被优先显示。

Search: Touch screen device, method, and graphical user interface for determining commands by applying heuristics

212 Patent Families · 300 Records

#	Patent No.	Title	Tag	Value	Quality	Sim
1	US20070273665A1	Touch screen device and operating met...	Risk	C	C	US(
2	US20090213086A1	TOUCH SCREEN DEVICE AND OPERATI...	Risk	C	C	US(
3	CN1967458A	Method for controlling a touch screen u...	Risk	A	C	CN(
4	KR1020100006423A	TOUCH SCREEN SYSTEM	Risk	D	C	KR(
5	KR1020160041101A	TOUCHSCREEN DEVICE, METHOD FOR ...	Risk	D	AA	KR(
6	CN110494836A	METHOD AND DEVICE FOR DETERMINI...	Risk	D	B	CN(

Callout: 相关性最高的结果会以星号标注并标记其关键字

选取专利下方「更多相似专利」按钮可以帮助您找到更多相似的专利

点击结果页面上的更多相似专利，系统将使用所选专利和原始搜索文字作为新的查询，再运行300个结果。

Search: Touch screen device, method, and graphical user interface for determining commands by applying heuristics

209 Patent Families · 300 Records

#	Patent No.	Title	Tag	Value
1	CN1967458A	Method for controlling a touch screen u...	Risk	A
2	US20100253620A1	Apparatus and method for touch screen ...	Risk	A
3	KR1020130105044A	METHOD FOR USER INTERFACE IN TOU...	Risk	D
4	WO2014/161156A1	METHOD AND APPARATUS FOR CONTR...	Risk	D
5	US20170228146A1	METHOD FOR CREATING TOUCH SCREE...	Risk	A
6	CN102498465A	Method of providing user interface of m...	Risk	A

Callout: More Like CN1967458A

使用 [检索结果页](#) 的工具：

- [萤光笔](#)
- [进阶筛选](#)
- 照申请号或专利家族 [合并](#)

号码检索让您免去输入专利号码或语法的麻烦，优化专利检索的过程，并通过免除无关的结果来提高检索准确性。

号码检索方式：

1. 直接输入专利号或申请号 或
2. 由 Excel批量汇入

输入专利号或申请号

1. 请点选下拉目录中的专利号或是申请号
2. 输入专利号或申请号
3. 点选**匹配**
4. 点选下方搜寻结果的数量后查看[检索结果](#)

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

Appl. No.
✓ Patent No.

Import patents

US7479949; USRE43932; US8908838B2; US20140341359A1; US5724405A

输入多个专利号或申请号请以分号、空格或换行区分，申请 / 公开 / 公告号最大数量：2000

How to use Patent Search Find

Download Reset

5 patent(s) found, and 0 patent number(s) unrecognized / Upload 5 patent(s).

下载报告

Country	Patent No.	Appl. No.	Result
	US7777777		Success
	CN20080176565A1		Failure

下载一份Excel报告，以快速确定哪些专利/申请号没有被识别。(此功能适用于所有号码检索)。

由 Excel 批量汇入

1. 点击汇入专利
2. 在弹窗请点击 **下载汇入模板** 下载 excel 范本
3. 填上专利局国家代码以及专利号或是申请号并储存档案
4. 点击 **档案上传** 选择储存的档案之后会显示档名
5. 点击 **确认** 看汇入结果
6. 点击结果的数字在 [检索结果页](#) 查看专利清单

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

Patent No.

Please make sure you have entered application / patent numbers and the numbers start with a country code. You can separate the numbers with semicolons, spaces, or new lines. For example: US7749473; US7749478; US20130124776; Maximum numbers per search: 2,000

[How to use Patent Search](#)

Import patents

No uploaded files.

Please download the "Import Template" and follow the guidelines in the template to ensure all patent data is imported correctly.

Home Insert Draw Page Layout Formulas Data Review View

Paste Cut Copy Format

O27

Country	Patent No. *	Appl. No. *
US	US7777777	09/326569
CN	104916081	

|

3 patent(s) found, and **0** patent number(s) unrecognized / Upload **3** patent(s).

Patent Search 的专利搜索保存了您的检索条件，并在储存在检索历史页面上。如果您进行了100次以上的检索，系统则会保存最近的100次检索结果。

Code	Type	Query	Details	Result	Time Created	Operation
R79	Keyword Search	(CC/"US" AND PN/"777777") OR (CC/"CN" AND PN/"104916081") OR (CC/"US" AND APN/"09/326569")		3 (Families)	2022-09-30 15:43	
R78	Number Search	Download patent/application numbers		5	2022-09-30 13:56	
R77	Semantic Search	Touch screen device, method, and graphical user interface for determining commands by applying heuristics		300	2022-09-29 13:58	
R76	Advanced Search	Check all queries		23,032	2022-09-28 17:12	
R75	Keyword Search	(((APD/[20130101 -> 20190611] AND TAC/("memory" OR storage OR semiconductor)) OR ((AN/("Toshiba memory") OR CAN/(" Tos...		728 (Families)	2022-09-28 16:45	
R74	Keyword Search	ABST/("car" OR "汽车" OR "汽車" OR "車" OR "motor-car" OR "motorcar" OR "automobile" OR "motor car" OR "摩托车" OR "汽车" OR "摩托車...		1,906,057 (Families)	2022-09-28 15:33	

检索历史选项中各功能

操作 - 套用

已保存的检索条件: 点击套用将已保存的检索条件应用于该检索(如, R77 的检索条件将在语意检索套用; 而R79的检索条件会套用在简易检索)

操作 - 储存

点击储存以手动保留检索条件

操作 - 检索监控

随时掌握检索结果的最新动态。这个功能只能应用在关键字检索(利用简易检索和进阶检索执行)

汇出

选择要「汇出」的检索条件(到Excel文件(.xls))

代码 R78

执行检索并直接进入检索结果页面。

详细资讯

查看该检索式的检索设定

Patent Search检索结果页面提供了许多功能, 帮助用户查看、筛选、分析和
管理结果

The screenshot displays the Patent Search interface. On the left, there is an 'Advanced Filter' sidebar with various dropdown menus for filtering results. The main area shows a list of patent entries with columns for 'Title' and 'Status'. The selected patent is US11145639B2, titled 'Semiconductor package and manufacturing method thereof'. The detailed view on the right shows the 'Claim' and 'Specification' sections. The 'Claim' section includes a 'Quick Select' grid and the text of 'Claim# 1'. The 'Specification' section shows the 'BACKGROUND' section with a paragraph of text. The interface also includes a search bar at the top, a 'Save Query' button, and a 'Monitor Query' button.

各种功能将在以下章节中详细介绍

- [Edit Query](#) – View or modify the query
- [Save Query](#) – Save the search query to your Search History
- [Monitor Query](#) – Monitor the results of your search weekly or monthly
- [Preferences](#) – Search, Patent List, and Collapse settings
- [View Modes](#) – Gallery, Summary, List, and 并排检视模式
- [Select/Deselect Results](#) – 管理结果列表
- [Tools](#) – Advanced Filter, Highlighter, Compare, Collapse, Statistical Chart, Export, Expand, Tag, Add to Project, Forward to (*Quality Insights* or *Due Diligence*)

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

Editing a Query:

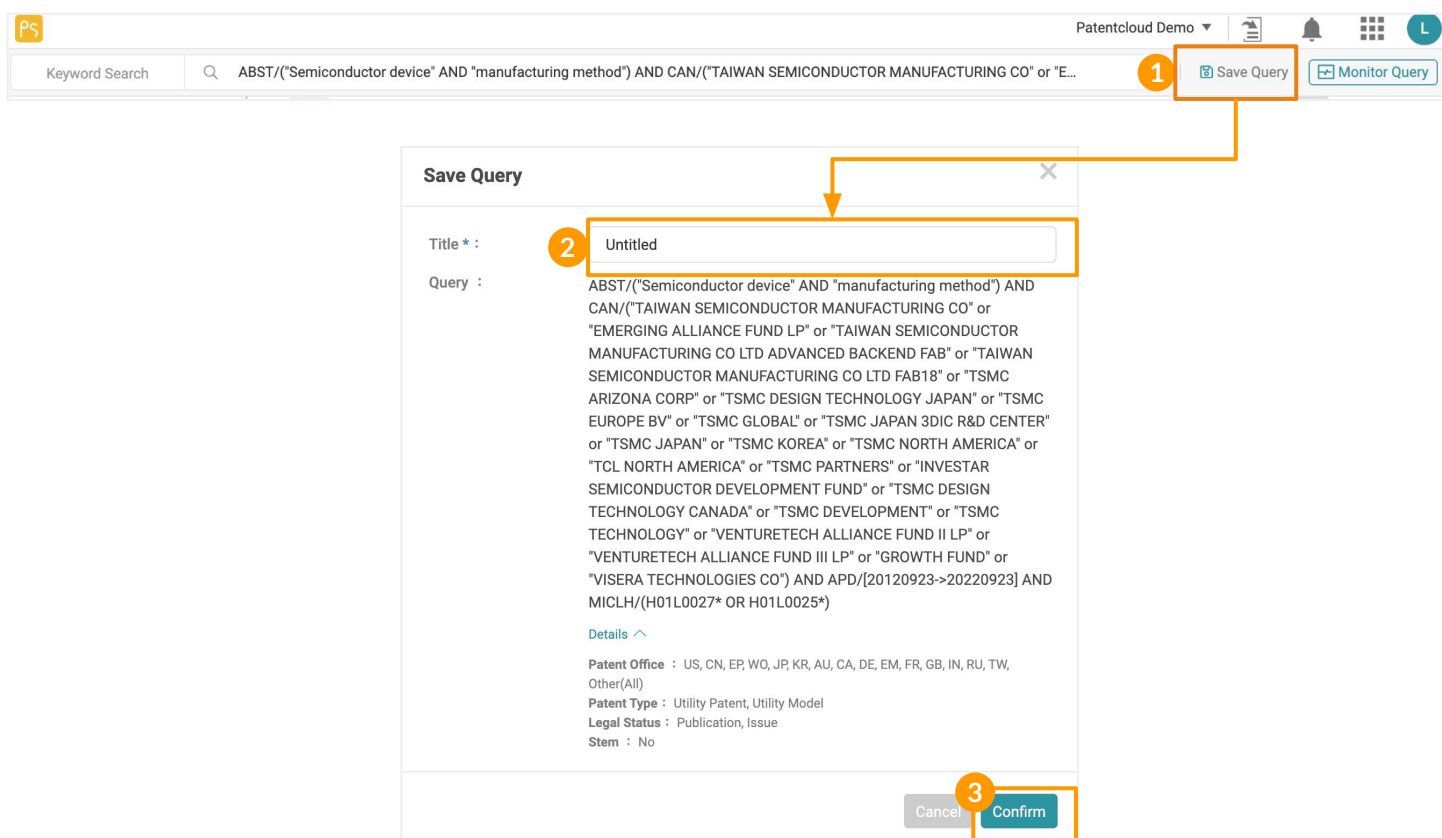
1. Click on the search query bar. A pop-up window will appear.
2. Adjust the query or settings.
3. Click on **Search** to start the adjusted query search.

The screenshot illustrates the process of editing a search query. At the top, a search bar contains the query: `ABST/("Semiconductor device" AND "manufacturing method") AND CAN/("TAIWAN SEMICONDUCTOR MANUFACTURING CO" or "E...`. A red circle with the number '1' highlights the search bar. An arrow points down to a pop-up window titled 'Keyword Search' with a close button (X) in the top right corner. Inside the pop-up, there is a 'Settings' button with a dropdown arrow. A red circle with the number '2' highlights the query text area, which contains the full query: `ABST/("Semiconductor device" AND "manufacturing method") AND CAN/("TAIWAN SEMICONDUCTOR MANUFACTURING CO" or "EMERGING ALLIANCE FUND LP" or "TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD ADVANCED BACKEND FAB" or "TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD FAB18" or "TSMC ARIZONA CORP" or "TSMC DESIGN TECHNOLOGY JAPAN" or "TSMC EUROPE BV" or "TSMC GLOBAL" or "TSMC JAPAN 3DIC R&D CENTER" or "TSMC JAPAN" or "TSMC KOREA" or "TSMC NORTH AMERICA" or "TCL NORTH AMERICA" or "TSMC PARTNERS" or "INVESTAR SEMICONDUCTOR DEVELOPMENT FUND" or "TSMC DESIGN TECHNOLOGY CANADA" or "TSMC DEVELOPMENT" or "TSMC TECHNOLOGY" or "VENTURETECH ALLIANCE FUND II LP" or "VENTURETECH ALLIANCE FUND III LP" or "GROWTH FUND" or "VISERA TECHNOLOGIES CO") AND APD/[20120923->20220923] AND MICLH/(H01L0027* OR`. A red circle with the number '3' highlights a blue 'Search' button in the bottom right corner of the pop-up window.

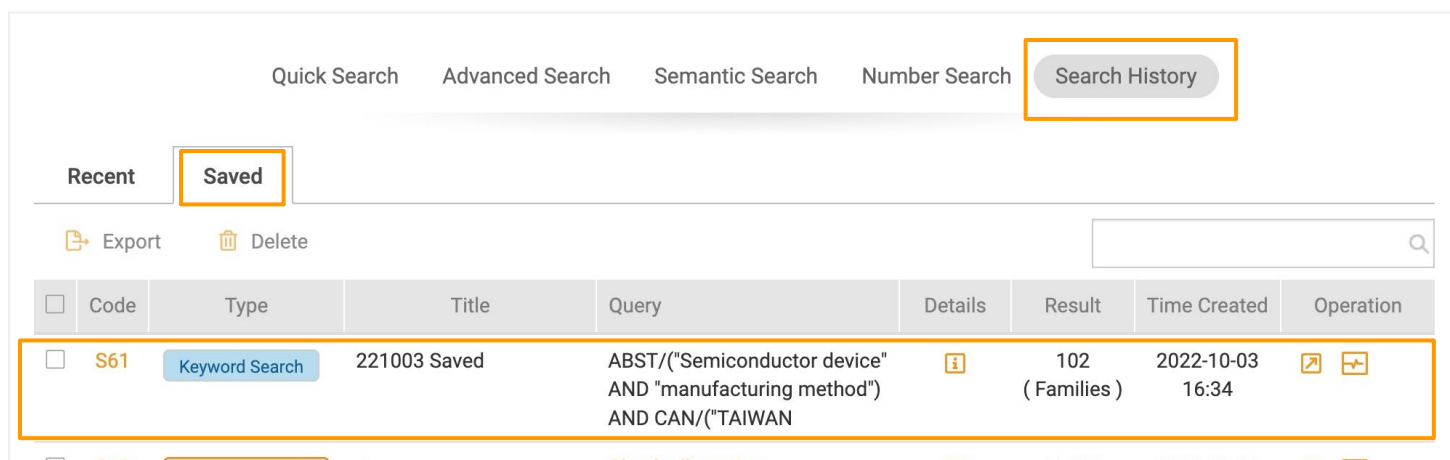
Save a query to your [Search History](#).

Saving a Query:

1. Click on the **Save Query** button next to the Search Box.
2. Assign a title to your saved query.
3. Click **Confirm**.



保存的查询可以在检索历史页面下找到。



Monitor Query allows you to automatically monitor and display any changes in the results of your monitor query on a predetermined schedule.

Setting a Query Monitor:

1. Click on the **Monitor Query** button on the upper right to set up a new monitor. If you have previously done a search query and want to monitor that query, you can access the query on the Search History page.
2. 设置一个标题, 并将其保存在你的 *Patent Vault* 中的一个现有资料夹中, 或创建一个新的资料夹。然后监控的执行及通知的频率。
3. Click **Confirm** to complete setting the query monitor.

The screenshot illustrates the process of setting a query monitor. It shows the main interface with a search bar and a 'Monitor Query' button (1). A 'Monitoring Setting' dialog box is open, where the title is set to 'Untitled Query Monitor' (2), the frequency is 'Monthly' with a count of '1', and the 'Save to folder' checkbox is checked. A 'Select Folder' button is highlighted. Below this, a 'Select Folder' dialog box is open, showing a list of folders in the 'Patent list' (3). The 'Query' field in the 'Monitoring Setting' dialog contains the search query: 'ABST/("Semiconductor device" AND "manufacturing method") AND CAN/("TAIWAN SEMICONDUCTOR MANUFACTURING CO" OR "E...")'.

*您将根据您 设定的频率收到监测结果的电子邮件通知。你可以在 *Patent Vault* 项目中查看保存的查询的详细监控结果。

Visit the Help Center for more about [Query Monitoring](#).

定制化管理您对检索设置、专利列表中查看的信息和合并设置。

Click on the  icon on the right of the result numbers to manage your preferences.

Search Setting

The Search Settings here are the same as in [Quick Search and Advanced Search](#), with only one more item – Collapse Settings.

专利合并设定允许你选择默认的方法来按家族、申请或专利数进行合并结果的数量。

Patent List

设置在一个页面上显示的专利数量，默认的浏览模式，在浏览模式下查看的资料栏位，以及专利号格式。

The screenshot shows the 'Patent List' preferences window. It has three tabs: 'Search Setting', 'Patent List', and 'Collapse Settings'. The 'Patent List' tab is active. There are three callout boxes with arrows pointing to specific settings:

- 设置每页显示的默认专利数。** (Set the default number of patents displayed per page.) - Points to the 'Results Per Page' dropdown menu, which is currently set to 60.
- Set Default View Mode.** - Points to the 'Default View Mode' dropdown menu, which is currently set to 'List'.
- Click to check the information columns displayed in each view mode.** - Points to a table of information columns.

Information Column	List	Gallery View	Summary View	Side by Side
Rep. Figure/Fig. 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Patent No.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Legal Status	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abstract	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
# of Claim	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
# of Independent Claim	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

At the bottom, there is a 'Patent No. Format' section with radio buttons for 'Standardized Format' (selected), 'PTO Original Format', and 'Both'.

Collapse Settings

设置当专利列表按申请号或按家族合并时列表的排序(按最近的或最早的排列)。

The screenshot shows the 'Collapse Settings' preferences window. It has three tabs: 'Search Setting', 'Patent List', and 'Collapse Settings'. The 'Collapse Settings' tab is active. The settings are organized into two sections:

- By Appl. No.**
 - Preferred Date (Pub./Issue Date) Most Recent Earliest
- By Family**
 - Preferred Date (Pub./Issue Date) Most Recent Earliest

At the bottom, there are three buttons: 'Reset to Default', 'Cancel', and 'OK'.

Search Results - View Modes

1/4

Patent Search offers four different view modes – List, Gallery, Summary, and Side-by-Side modes – to browse patent data.

Patentcloud Demo

Keyword Search: ABST/("Semiconductor device" AND "manufacturing method")

Advanced Filter: Patent Office, Patent Type, Assignee/Applicant

8,516 Patent Families · 13,392 Records

From left to right: List, Gallery, Summary, and 并排检视模式

1. List Mode

View patents as a list.

Split View is available in List Mode and Gallery Mode. By clicking on the eye icon, users can view the patent page of the selected patent on the right while maintaining the patent list on the left.

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

Click on the eye icon to open the patent page on the right panel.

#	Patent No.	Title	Quality	Simple Family	Appl. Date
1	US7868328B2	Semiconductor device having antenna o...	A	US(2)	2009-01-29
2	US7969007B2	Semiconductor device and manufacturi...	B	US(1) /TW(1)	2008-04-29
3	US10388538B2	Semiconductor device and manufacturi...	B	JP(6) /KR(5) /US(2) /TW(1) ...	2016-10-24
4	US6505090B1	Semiconductor device manufacturing m...	C	JP(1) /US(1)	1999-12-14
5	CN105321802A	Manufacturing method for semiconduct...	C	CN(1) /JP(1) /TW(1) /US(1)	2015-02-09

To collapse this panel, click on the arrow icon on the upper-left corner.

To view another patent in the split mode, click on the eye icon next to the patent number.

US7969007B2 Active

BACKGROUND OF THE INVENTION

1. Field of the Invention

[0002]

[0003]

This invention relates to a semiconductor device and its manufacturing method, specifically to a CSP (Chip Size Package) type semiconductor device using a supporter and its manufacturing method.

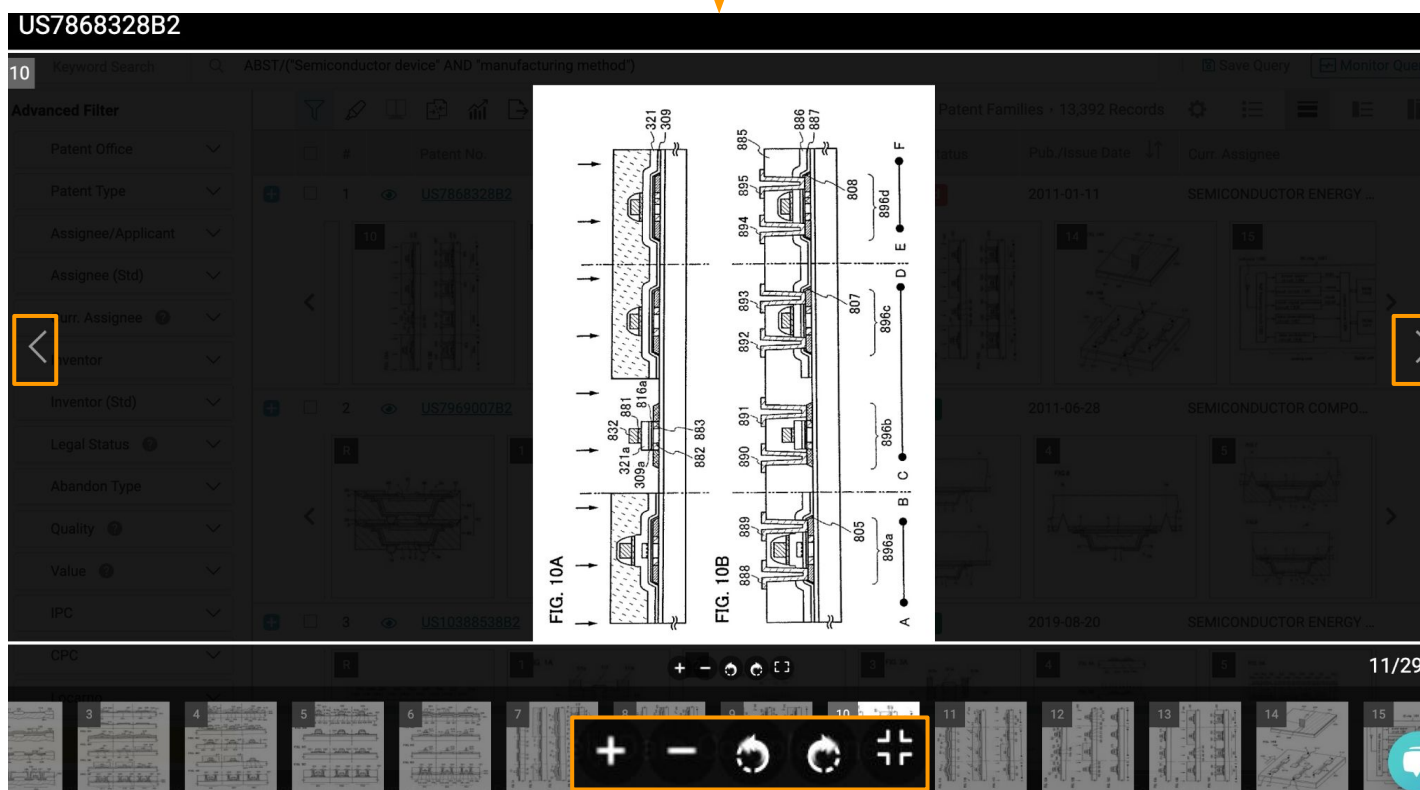
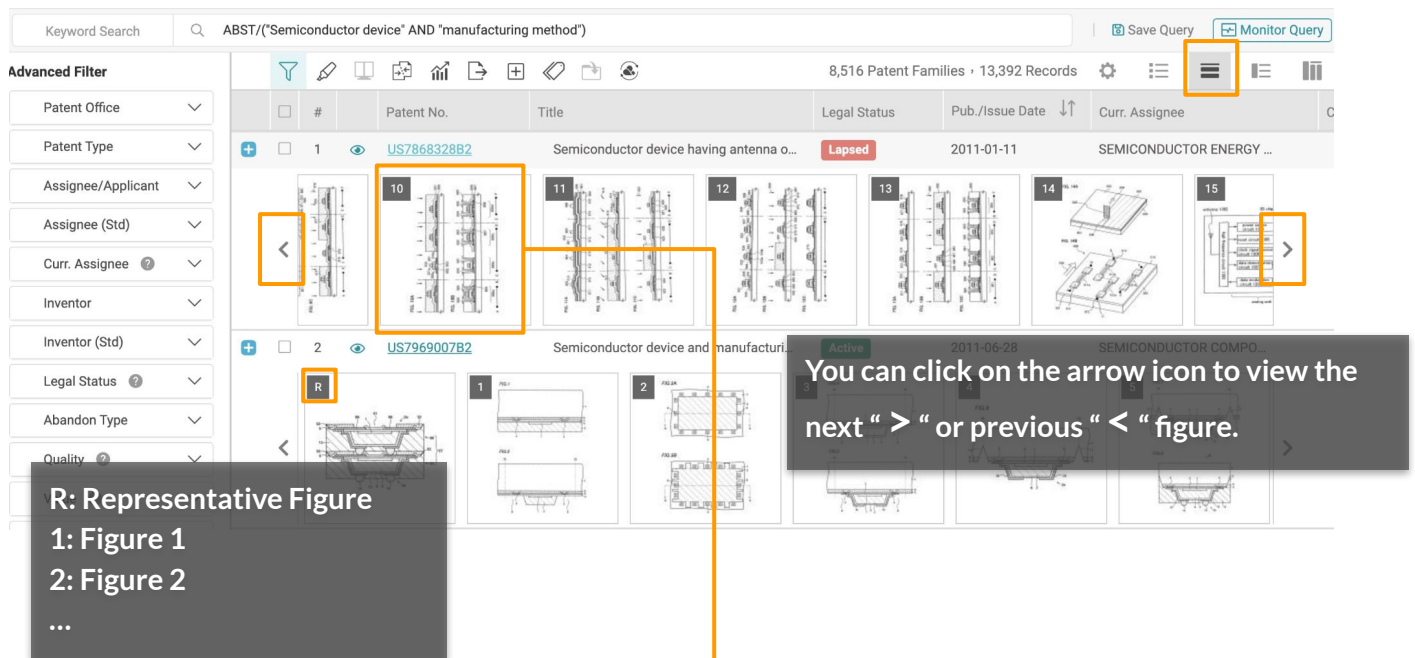
Figure (20)

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

To set the default view mode and select which columns are displayed, please refer to [Search Results - Preferences](#).

2. Gallery Mode

View all of the patent figures on the search results page. You can click on each patent figure for a larger view.



Zoom In, Zoom Out, Rotate Image, and show Full Image (hide/show preview bar below).

To set the default view mode and select which columns are displayed, please refer to [Search Results - Preferences](#).

3. Summary Mode

View the representative figure and bibliographical details.

Keyword Search Save Query Monitor Query

8,516 Patent Families · 13,392 Records

Sort By

- ✓ Relevance
- Appl. Date
- Pub./Issue Date
- Pub. Date (Gazette)
- Earliest Priority
- Inactive Date
- Quality
- Value

Advanced Filter

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

1. Semiconductor device having antenna over thin film integrated circuit

Patent No. : [US7868328B2](#) Assignee : Inventor:

Pub./Issue Date : 2011-01-11 ◆ Orig. Assignee : SEMICONDUCTOR ENER... Shunpei Yamazaki

Appl. No. : 12/362462 ◆ Orig. Assignee (STD) : SEMICONDUCTOR ENER... Hiromichi Godo

Appl. Date : 2009-01-29 ◆ Orig. Assignee (STD) : SEMICONDUCTOR ENER... Atsuo Isobe

IPC: H01L 29/786 Tetsuji Yamaguchi

The present invention provides a semiconductor device capable of being mass-produced. The present invention also provides a semiconductor device using an extreme thin integrated circuit. The present invention provides a low power consumption semiconductor device and a manufacturing method. The present invention, a semiconductor device that has a semiconductor nonvolatile memory element.

在此模式中选择你的浏览结果排序方式。所选择的偏好将适用于所有其他模式。

Sort Results

默认情况下，检索结果是按相关性排序的。若要更改，请点击排序方式下拉菜单，并选择按申请日期、出版/发行日期、出版日期、最早优先权日、失效日或品质和价值对结果进行排序。

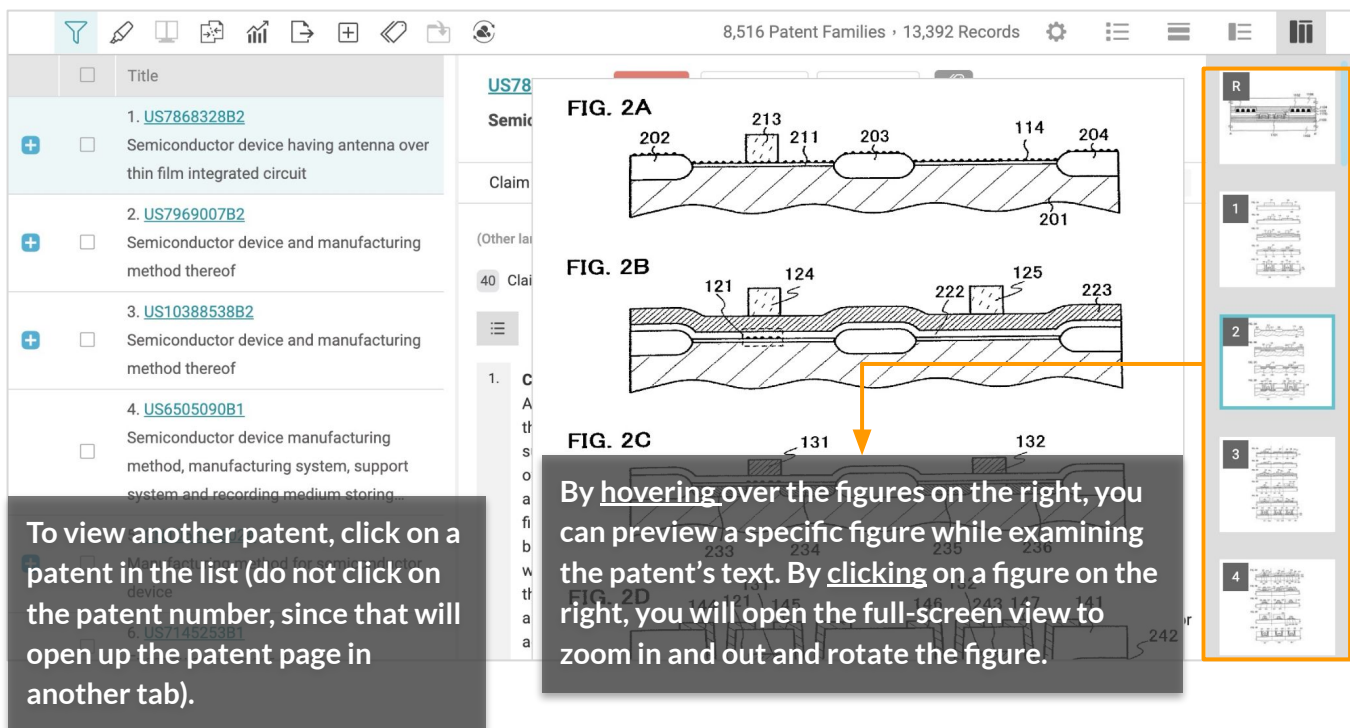
To set the default view mode and select which columns are displayed, please refer to [Search Results - Preferences](#).

4. Side-by-Side Mode

Examine patent elements side by side.

You can still click on each patent number to view the individual patent in a new tab or window.

Click the dropdown menu to select which elements you want to compare.



To view another patent, click on a patent in the list (do not click on the patent number, since that will open up the patent page in another tab).

By hovering over the figures on the right, you can preview a specific figure while examining the patent's text. By clicking on a figure on the right, you will open the full-screen view to zoom in and out and rotate the figure.

To set the default view mode and select which columns are displayed, please refer to [Search Results - Preferences](#).

Search Results - Select/ Deselect Results

1/3

Select

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

13,392 records									
<input type="checkbox"/>	#	Patent No.	Title	Value	Quality	Simple Family	Appl. Date	Appl. No.	Pub./Issue Date
3 patent(s) selected.									
<input checked="" type="checkbox"/>	1	US20090194803A1	SEMICONDUCTOR DEVICE AND METHO...	A	C	US(2)	2009-01-29	12/362462	2009-08-06
<input checked="" type="checkbox"/>	2	US20050263767A1	Semiconductor device and method for ...	C	C	US(2)	2005-05-25	11/136705	2005-12-01
<input checked="" type="checkbox"/>	3	US7868328B2	Semiconductor device having antenna o...	A	C	US(2)	2009-01-29	12/362462	2011-01-11
<input type="checkbox"/>	4	US7504663B2	Semiconductor device with a floating ga...	C	C	US(2)	2005-05-25	11/136705	2009-03-17

To select all of the results on a single page, simply tick the top checkbox to select all. The system will automatically display the number of patents selected thus far. The total number of patents is based on your [Patent List settings](#).

13									
<input checked="" type="checkbox"/>	#	Patent No.	Title	Value	Quality	Simple Family			
30 patent(s) selected. Select all 13,392 patents in this query									
<input checked="" type="checkbox"/>	1	US20090194803A1	SEMICONDUCTOR DEVICE AND METHO...	A	C	US(2)	21		
<input checked="" type="checkbox"/>	2	US20050263767A1	Semiconductor device and method for ...	C	C	US(2)	21		
<input checked="" type="checkbox"/>	3	US7868328B2	Semiconductor device having antenna o...	A	C	US(2)	21		
<input checked="" type="checkbox"/>	4	US7504663B2	Semiconductor device with a floating ga...	C	C	US(2)	21		

Once you have selected all patents on this page, the option to **select all results for that query** will appear. Click on the link to select all results.

To adjust the number of results you can view on a single page, please refer to [Patent List settings](#).

Search Results - Select/ Deselect Results

To select results from multiple pages, select the patents you want by ticking the checkboxes. You can also tick the topmost checkbox to select all patents on that specific page. Then, move to the next page and continue selecting more patents. The system will automatically display the number of patents selected thus far.

<input type="checkbox"/>	#	Patent No.	Title	Value	Quality
6 patent(s) selected.					
<input type="checkbox"/>	31	US10269753B2	Semiconductor device and manufacturi...	D	B
<input type="checkbox"/>	32	US20080150102A1	SEMICONDUCTOR DEVICE AND MANUF...	C	D
<input checked="" type="checkbox"/>	33	US7705443B2	Semiconductor device with lead frame i...	C	D
<input checked="" type="checkbox"/>	34	US20110039394A1	MANUFACTURING METHOD OF SEMIC...	D	C
<input checked="" type="checkbox"/>	35	US20090042387A1	Manufacturing method of semiconduct...	B	D
<input type="checkbox"/>	36	US7989317B2	Manufacturing method of semiconduct...	D	C
<input type="checkbox"/>	37	US7820526B2	Manufacturing method of semiconduct...	B	D
<input type="checkbox"/>	38	US20120161277A1	SEMICONDUCTOR DEVICES AND SEMIC...	D	D
<input type="checkbox"/>	39	US20100133647A1	Semiconductor devices and semicondu...	D	D
<input type="checkbox"/>	40	US8541841B2	Semiconductor devices and semicondu...	D	D
<input type="checkbox"/>	41	US20170294583A1	CARBON NANOTUBE SEMICONDUCTOR...	D	D

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

Select patent by patent, page by page.

<input checked="" type="checkbox"/>	#	Patent No.	Title	Value
60 patent(s) selected Select all 13,392 patents in this query				
<input checked="" type="checkbox"/>	31	US10269753B2	Semiconductor device and manufacturi...	D
<input checked="" type="checkbox"/>	32	US20080150102A1	SEMICONDUCTOR DEVICE AND MANUF...	C
<input checked="" type="checkbox"/>	33	US7705443B2	Semiconductor device with lead frame i...	C
<input checked="" type="checkbox"/>	34	US20110039394A1	MANUFACTURING METHOD OF SEMIC...	D
<input checked="" type="checkbox"/>	35	US20090042387A1	Manufacturing method of semiconduct...	B
<input checked="" type="checkbox"/>	36	US7989317B2	Manufacturing method of semiconduct...	D
<input checked="" type="checkbox"/>	37	US7820526B2	Manufacturing method of semiconduct...	B
<input checked="" type="checkbox"/>	38	US20120161277A1	SEMICONDUCTOR DEVICES AND SEMIC...	D
<input checked="" type="checkbox"/>	39	US20100133647A1	Semiconductor devices and semicondu...	D
<input checked="" type="checkbox"/>	40	US8541841B2	Semiconductor devices and semicondu...	D
<input checked="" type="checkbox"/>	41	US20170294583A1	CARBON NANOTUBE SEMICONDUCTOR...	D

Prev 1 2 3 4 5 6 7

Select all patents on a single page.

To adjust the number of results you can view on a single page, please refer to [Patent List settings](#).

Search Results - Select/ Deselect Results

3/3


Deselect

To deselect patents listed on multiple pages or all selected patents, first click on **Select all** <number> patents in this query.

60 patent(s) selected. [Select all 13,392 patents in this query.](#)

31  [US10269753B2](#) Semiconductor device and manufacturi... D

Then, click **Clear All**.

<input checked="" type="checkbox"/>	#	Patent No.	Title	Value 
-------------------------------------	---	------------	-------	-------------------------------------------------------------------------------------------

All 13,392 patents in this query are selected. [Clear All](#)

<input checked="" type="checkbox"/>	31		US10269753B2	Semiconductor device and manufacturi... D
-------------------------------------	----	-------------------------------------------------------------------------------------	------------------------------	-------------------------------------------

The deselect action can be done on any page.

At the top of the patent results, you can find an array of icons. These icons are tools for managing the patent list.

Keyword Search

Advanced Filter

Patent Office

Patent Type

Assignee/Applicant

<input type="checkbox"/>	#		Patent No.	Title
<input type="checkbox"/>	1		US20090194803A1	SEMICONDUCTOR DEVICE AND METHO...
<input type="checkbox"/>	2		US20050263767A1	Semiconductor device and method for ...

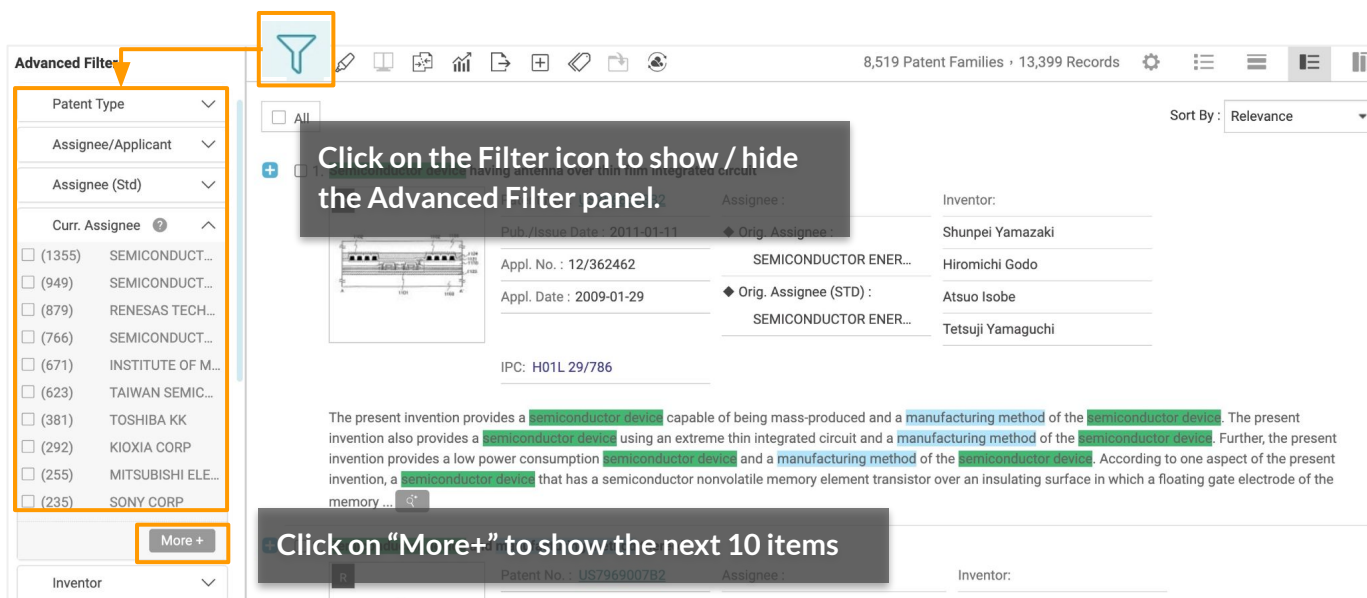


The tools (from left to right) are:

- [筛选](#) – 展开进阶筛选列表
- [荧光笔](#) – 标记检索结果内的关键字
- [比对](#) – 选取二项或多项的专利比对内容
- [合并](#) – 以家族号码或申请号码收合检索结果
- [统计图表](#) – 根据检索结果统计基本图表, 包括直条图、脉络图、圆饼图、以及比例图
- [汇出](#) – 汇出专利清单或是PDF全文
- [扩展](#) – 加入检索结果的所有家族成员
- [标籤](#) – 您可以使用自订的标籤标记专利, 所有的自订标籤都会被储存在专案内的资料夹
- [加入专案](#) – 加入专案 - 将专利加入您的专案的资料夹中
- [转入至](#) – 将检索结果直接转至Quality Insights或是 Due Diligence分析报告

Advanced Filter

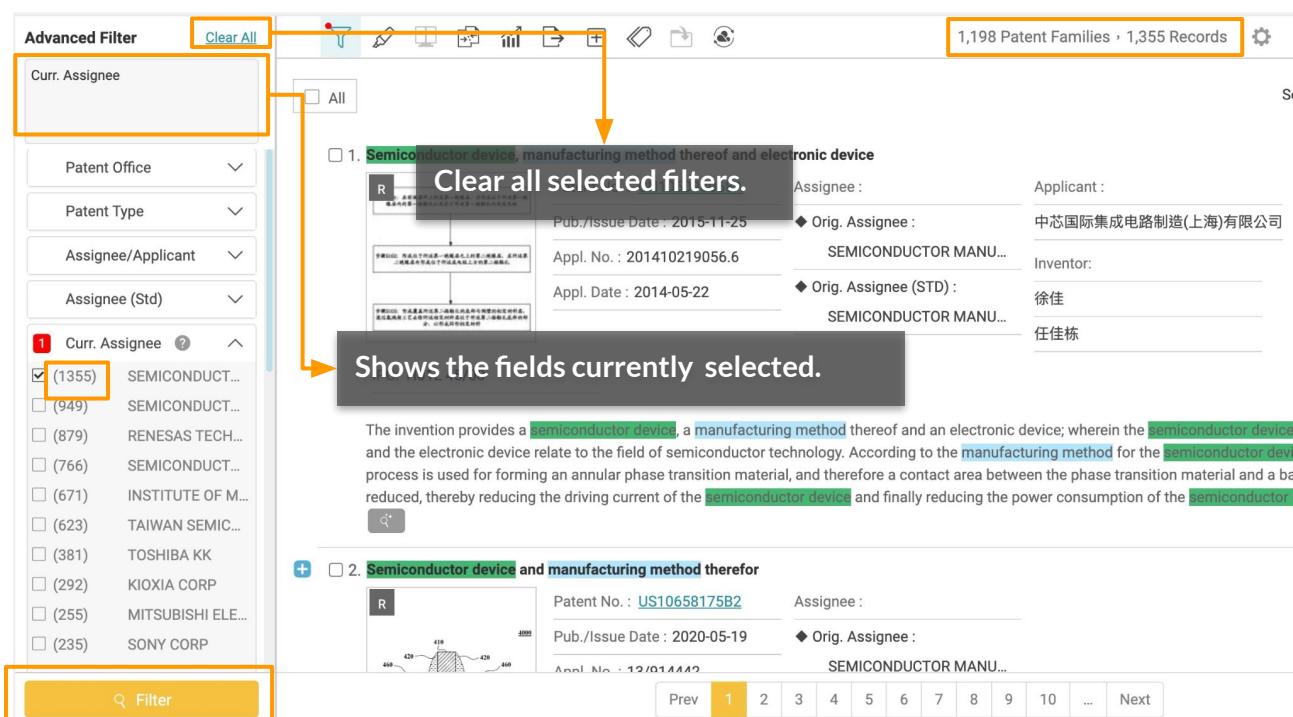
Patent Search users can further filter the search results by using the advanced filters on the left-side of the search results page. You can filter your results by PTO, patent type, assignee/applicant, assignee (Std), current assignee, inventor, legal status, abandon type (for abandoned legal status),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



Click on the Filter icon to show / hide the Advanced Filter panel.

Click on "More+" to show the next 10 items

The number of matches shown next to a filter item is based on the initial total of search results and will not automatically update after filters have been applied. After selecting the filter items and clicking on **Filter**, you will see the number of records found from filtering the search results on the upper right-hand corner.

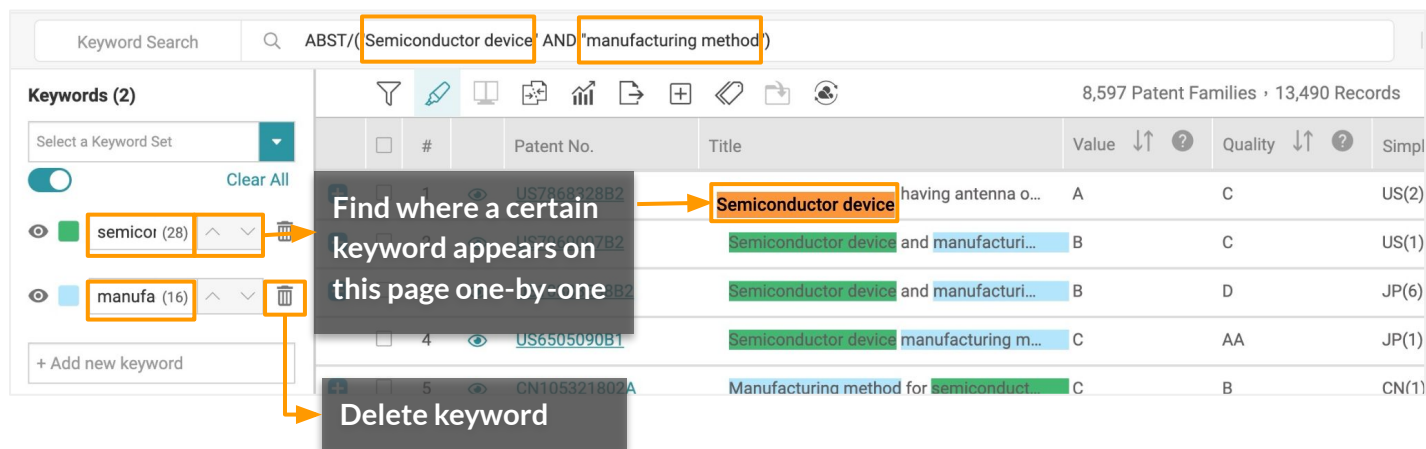


Clear all selected filters.

Shows the fields currently selected.

Highlighter

The keywords from your search are automatically highlighted on the search results page.



Keyword Search: ABST/("Semiconductor device" AND "manufacturing method")

Keywords (2)

- semicor (28)
- manufa (16)

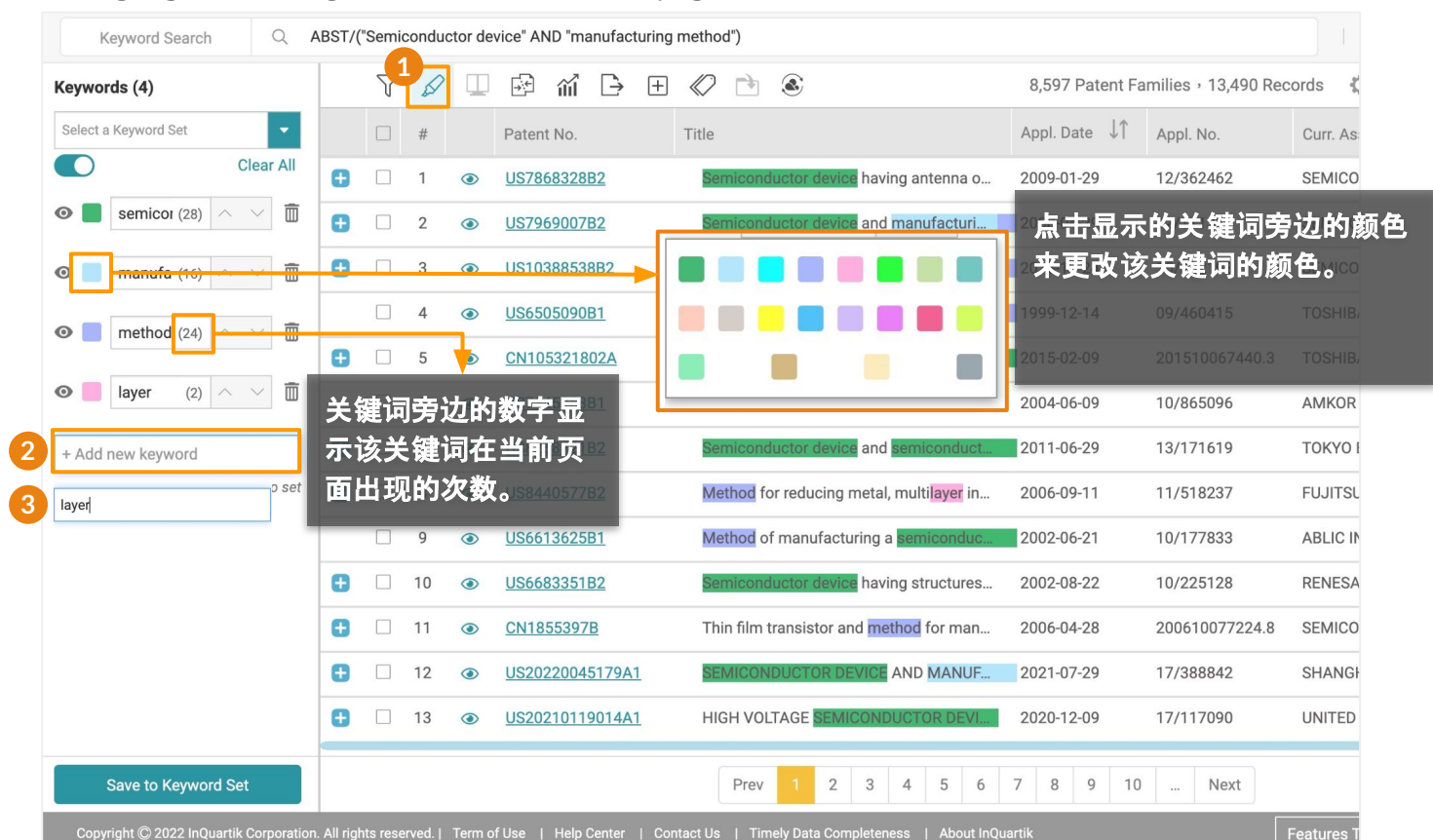
Find where a certain keyword appears on this page one-by-one

Delete keyword

#	Patent No.	Title	Value	Quality	Simpl
1	US7868328B2	having antenna o...	A	C	US(2)
2	US7969007B2	Semiconductor device and manufacturi...	B	C	US(1)
3	US10388538B2	Semiconductor device and manufacturi...	B	D	JP(6)
4	US6505090B1	Semiconductor device manufacturing m...	C	AA	JP(1)
5	CN105321802A	Manufacturing method for semiconduct...	C	B	CN(1)

To highlight more keywords:

1. Click on Highlight icon on the tool bar.
2. Click on the +Add new keyword field on the Highlighter panel on the left.
3. Enter a specific word or phrase in the text box and press **Enter**. The keyword will then be highlighted throughout the search results pages.



Keyword Search: ABST/("Semiconductor device" AND "manufacturing method")

Keywords (4)

- semicor (28)
- manufa (16)
- method (24)
- layer (2)

关键词旁边的数字显示该关键词在当前页面出现的次数。

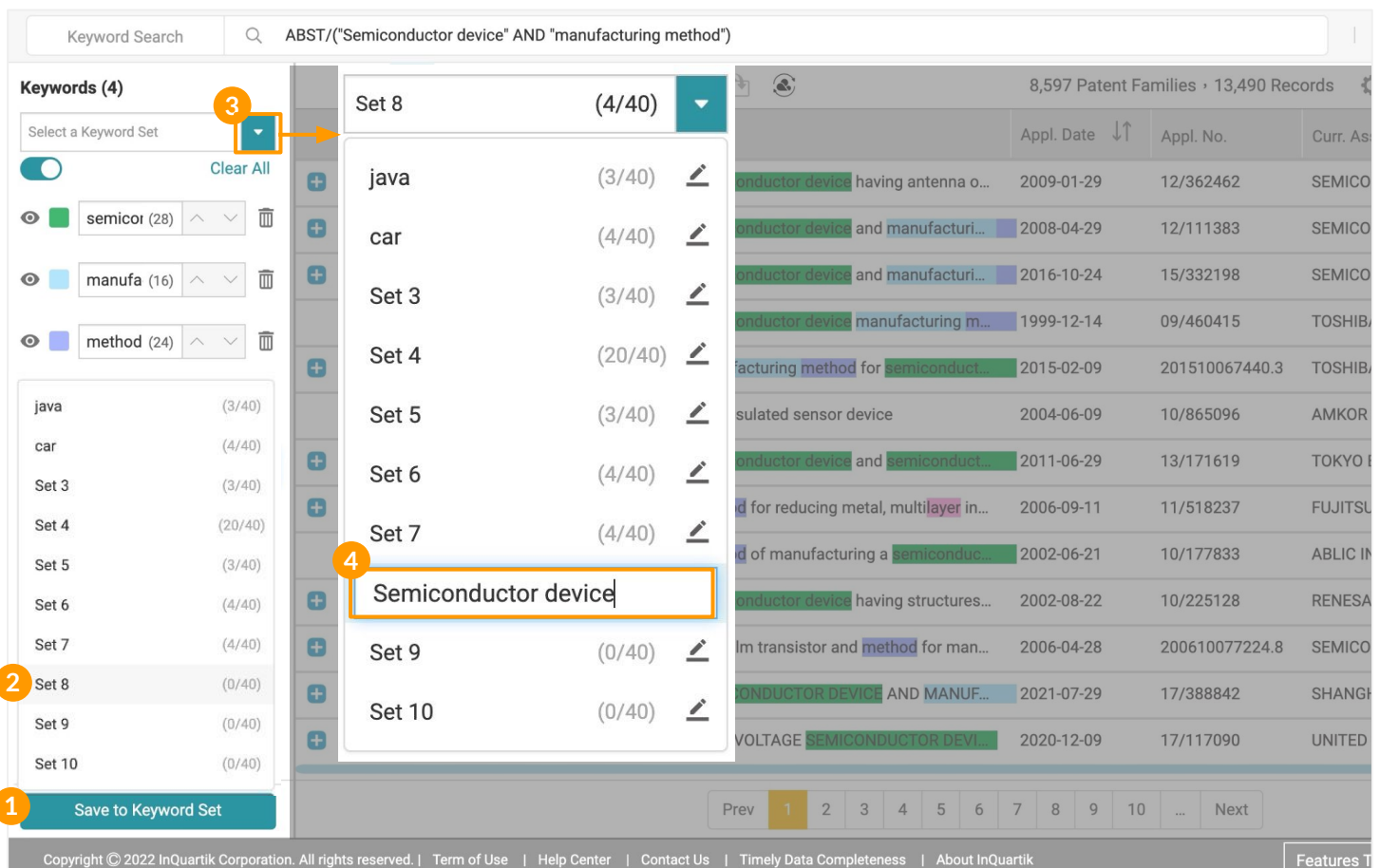
点击显示的关键词旁边的颜色来更改该关键词的颜色。

#	Patent No.	Title	Appl. Date	Appl. No.	Curr. As
1	US7868328B2	Semiconductor device having antenna o...	2009-01-29	12/362462	SEMICO
2	US7969007B2	Semiconductor device and manufacturi...			
3	US10388538B2	Semiconductor device and manufacturi...			
4	US6505090B1	Semiconductor device manufacturing m...	1999-12-14	09/460415	TOSHIB,
5	CN105321802A	Manufacturing method for semiconduct...	2015-02-09	201510067440.3	TOSHIB,
6	US6613625B1	Semiconductor device and semiconduct...	2004-06-09	10/865096	AMKOR
7	US6683351B2	Semiconductor device and semiconduct...	2011-06-29	13/171619	TOKYO I
8	US8440577B2	Method for reducing metal, multilayer in...	2006-09-11	11/518237	FUJITSL
9	US6613625B1	Method of manufacturing a semiconduc...	2002-06-21	10/177833	ABLIC IN
10	US6683351B2	Semiconductor device having structures...	2002-08-22	10/225128	RENESA
11	CN1855397B	Thin film transistor and method for man...	2006-04-28	200610077224.8	SEMICO
12	US20220045179A1	SEMICONDUCTOR DEVICE AND MANUF...	2021-07-29	17/388842	SHANGH
13	US20210119014A1	HIGH VOLTAGE SEMICONDUCTOR DEVI...	2020-12-09	17/117090	UNITED

Highlighter

Use “Save to Keyword Sets” to store your frequently-highlighted keywords.

1. Click on the **Save to Keyword Set** button to save keywords. You can save up to 10 keyword sets that can store up to 40 keywords each.
2. 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.



Keyword Search

Keywords (4)

Select a Keyword Set 3

Clear All

semicon (28)

manufa (16)

method (24)

java (3/40)

car (4/40)

Set 3 (3/40)

Set 4 (20/40)

Set 5 (3/40)

Set 6 (4/40)

Set 7 (4/40)

Set 8 (0/40) 2

Set 9 (0/40)

Set 10 (0/40)

Save to Keyword Set 4

Set 8 (4/40)

java (3/40)

car (4/40)

Set 3 (3/40)

Set 4 (20/40)

Set 5 (3/40)

Set 6 (4/40)

Set 7 (4/40)

Semiconductor device 3

Set 9 (0/40)

Set 10 (0/40)

8,597 Patent Families · 13,490 Records

	Appl. Date	Appl. No.	Curr. As
ductor device having antenna o...	2009-01-29	12/362462	SEMICO
ductor device and manufacturi...	2008-04-29	12/111383	SEMICO
ductor device and manufacturi...	2016-10-24	15/332198	SEMICO
ductor device manufacturing m...	1999-12-14	09/460415	TOSHIB
ufacturing method for semiconduct...	2015-02-09	201510067440.3	TOSHIB
insulated sensor device	2004-06-09	10/865096	AMKOR
ductor device and semiconduct...	2011-06-29	13/171619	TOKYO
d for reducing metal, multilayer in...	2006-09-11	11/518237	FUJITSU
d of manufacturing a semiconduct...	2002-06-21	10/177833	ABLIC IN
ductor device having structures...	2002-08-22	10/225128	RENESA
lm transistor and method for man...	2006-04-28	200610077224.8	SEMICO
ONDUCTOR DEVICE AND MANUF...	2021-07-29	17/388842	SHANGH
VOLTAGE SEMICONDUCTOR DEVI...	2020-12-09	17/117090	UNITED

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

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Features T

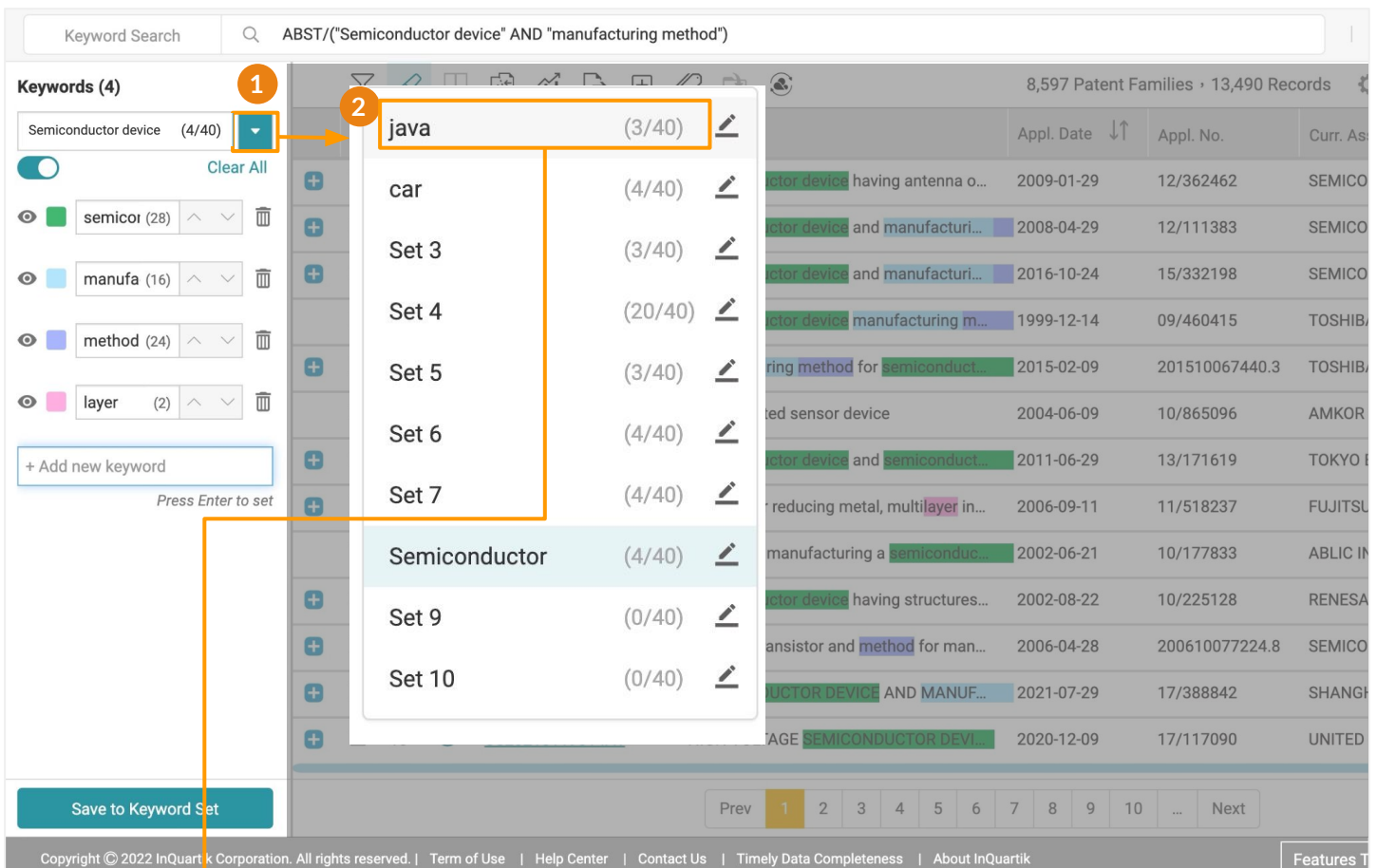
Rename a Keyword Set:

3. To rename a Keyword Set, click on **Select a Keyword Set** from the dropdown list.
4. Click on the Edit icon, rename the set and press Enter.

Highlighter


To select another keyword set to view:

1. Click on the dropdown list at the top of the Highlighter panel.
2. Click on the saved set you want to replace the existing set with.





Keyword Search: ABST/("Semiconductor device" AND "manufacturing method")


Keywords (4)


Semiconductor device (4/40) 

Clear All

semicor (28) 

manufa (16) 

method (24) 

layer (2) 

+ Add new keyword

Press Enter to set

Save to Keyword Set

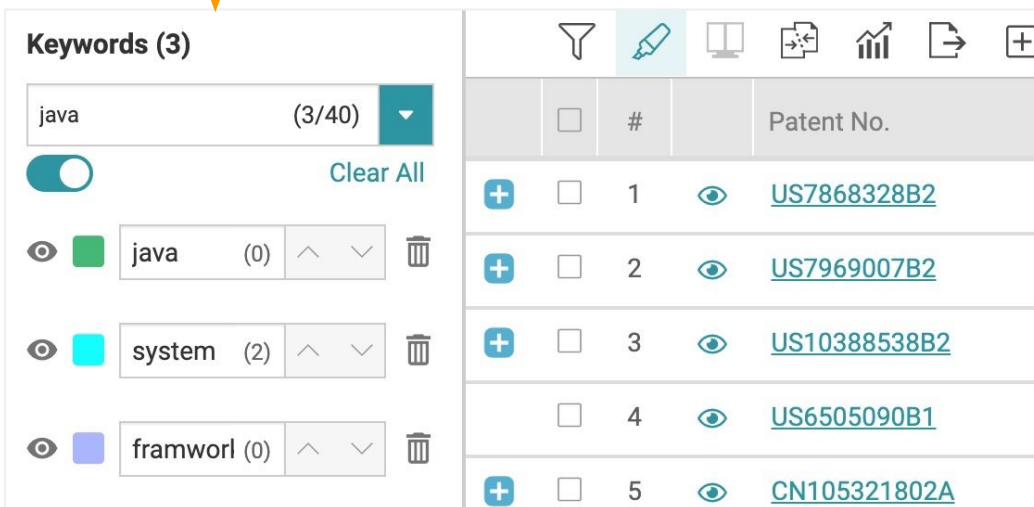
8,597 Patent Families · 13,490 Records

Appl. Date	Appl. No.	Curr. As
2009-01-29	12/362462	SEMICO
2008-04-29	12/111383	SEMICO
2016-10-24	15/332198	SEMICO
1999-12-14	09/460415	TOSHIB
2015-02-09	201510067440.3	TOSHIB
2004-06-09	10/865096	AMKOR
2011-06-29	13/171619	TOKYO I
2006-09-11	11/518237	FUJITSU
2002-06-21	10/177833	ABLIC IN
2002-08-22	10/225128	RENESA
2006-04-28	200610077224.8	SEMICO
2021-07-29	17/388842	SHANGH
2020-12-09	17/117090	UNITED


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

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Features T





Keywords (3)

java (3/40) 

Clear All

java (0) 

system (2) 

framworl (0) 


#	Patent No.
1	US7868328B2
2	US7969007B2
3	US10388538B2
4	US6505090B1
5	CN105321802A


Compare

The Compare tool in *Patent Search* and *Patent Vault* lets you compare two patents quickly and easily, whether on the search result page or in your folder.

To compare patents:

1. Select the patents you want to compare by ticking the corresponding checkbox(es). You can select up to 20 patents.
2. Click the Compare icon. The comparison page will open in a new tab.
3. On the document comparison page, drag and drop any patent to either side of the reading panel. You can also compare the information of a single patent by dragging and dropping that patent to both panels.

Keyword Search **Compare**  ABST/("Semiconductor device" AND "manufacturing method") 13,490 record

<input type="checkbox"/>	#	Patent No.	Title	Appl. Date 	Appl. No.	Curr. Assignee
4 patent(s) selected.						
<input checked="" type="checkbox"/>	1	US20090194803A1	SEMICONDUCTOR DEVICE AND METHOD FOR MANUF...	2009-01-29	12/362462	SEMICONDUCTOR ENERGY ...
<input checked="" type="checkbox"/>	2	US20050263767A1	Semiconductor device and method for manufacturing t...	2005-05-25	11/136705	SEMICONDUCTOR ENERGY ...
<input checked="" type="checkbox"/>	3	US7868328B2	Semiconductor device having antenna over thin film int...	2009-01-29	12/362462	SEMICONDUCTOR ENERGY ...
<input checked="" type="checkbox"/>	4	US7504663B2	Semiconductor device with a floating gate electrode th...	2005-05-25	11/136705	SEMICONDUCTOR ENERGY ...
<input type="checkbox"/>	5	US20080277793A1	Semiconductor Device and Manufacturing Method The...	2008-04-29	12/111383	SEMICONDUCTOR COMPO...
<input type="checkbox"/>	6	US7969007B2	Semiconductor device and manufacturing method ther...	2008-04-29	12/111383	SEMICONDUCTOR COMPO...

Show/Hide list of patents

Patent list (4)

- US20090194803A1**
SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME
- US20050263767A1**
Semiconductor device and method for manufacturing the same
- US7868328B2**
Semiconductor device having antenna over thin film integrated circuit
- US7504663B2**
Semiconductor device with a floating gate electrode that includes a plurality of particles

US20090194803A1 PGPub - Granted

Quality: C Value: A Risk Rel...

SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING THE SAME

[Full Text](#) [Simple Family](#) [Extended Family](#) [Citatic](#)

Abstract (Other language versions are not available.)

The present invention provides a semiconductor device capable of being mass-produced and a manufacturing method of the semiconductor device. The present invention also provides a semiconductor device using an extreme thin integrated circuit and a manufacturing method of the semiconductor device. Further, the present invention provides a low power consumption semiconductor device and a manufacturing method of the semiconductor device. According to one aspect of the present invention, a semiconductor device that has a semiconductor nonvolatile memory element transistor over an insulating surface in which a floating gate electrode of the memory transistor is formed by a plurality of conductive particles or semiconductor particles is provided.

[Figure \(29\)](#)

US7868328B2 Lapsed

Claim# 1

A semiconductor device comprising: a thin film integrated circuit over a substrate; a first interlayer insulating film over the thin film integrated circuit; an antenna over the first interlayer insulating film; and a cover member comprising a biodegradable resin over the antenna, wherein the thin film integrated circuit and the antenna are adhered to the substrate and the cover member with an adhesive agent.

Claim# 6

A semiconductor device comprising: a thin film integrated circuit over a substrate; a first interlayer insulating film over the thin film integrated circuit; an antenna over the first interlayer insulating film; a barrier film over the antenna; and a cover member comprising a biodegradable resin over the barrier film, wherein the thin film integrated circuit and the antenna are adhered to the substrate and the cover member with an adhesive agent, and wherein the barrier film is formed between the antenna and the cover member.

Claim# 13

A semiconductor device comprising: a memory element

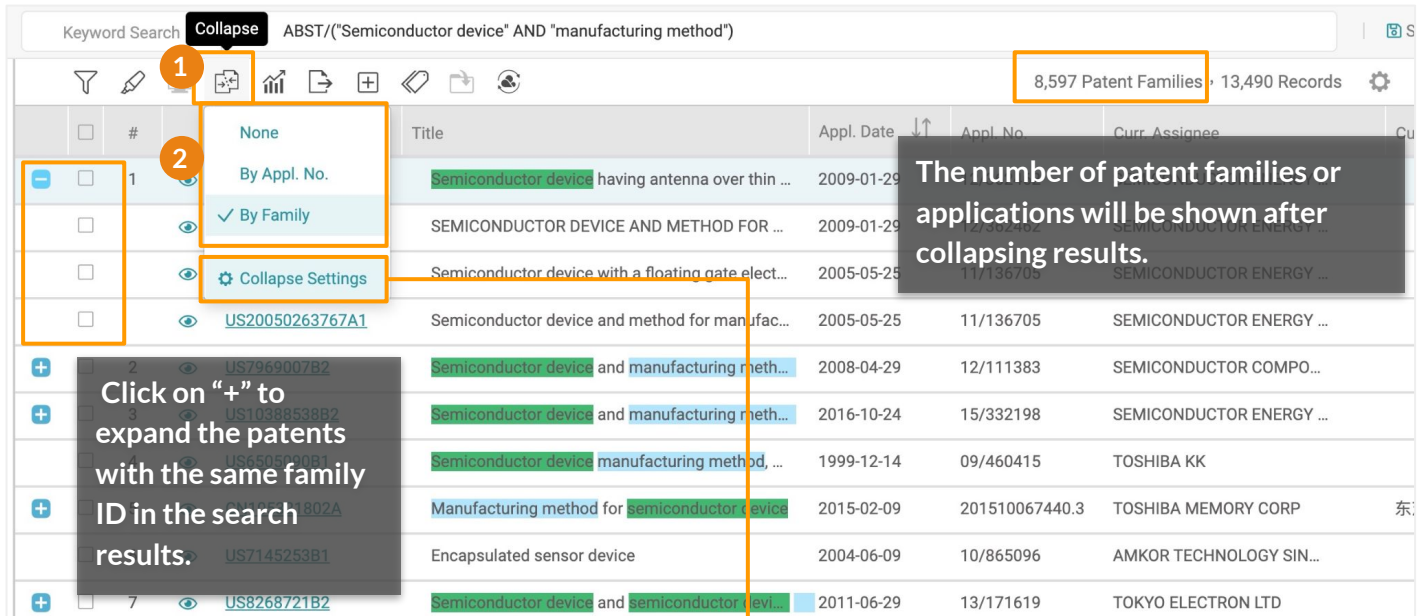
Patent Search also provides [Highlighter](#) and [Memo](#) tools that are available on the document comparison page.

Collapse

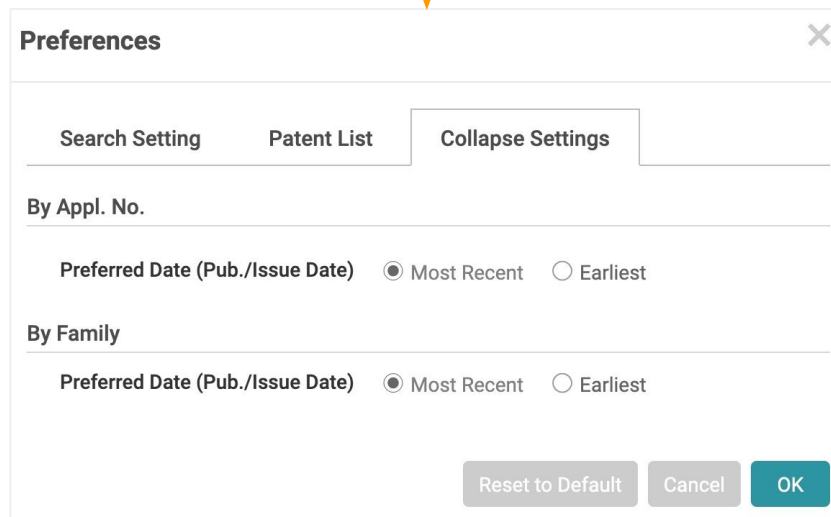
Collapse results by application number or by family.

To collapse patents:

1. Click on the Collapse icon.
2. Select whether you want to collapse the results By Application No., By Family, or None. The screen will present the collapsed results.



The screenshot shows a search interface with a search bar containing the text "ABST/('Semiconductor device' AND 'manufacturing method')". Below the search bar is a toolbar with various icons, including a collapse icon (1). A dropdown menu is open, showing options: "None", "By Appl. No.", "By Family" (selected), and "Collapse Settings" (2). A text box on the right states: "The number of patent families or applications will be shown after collapsing results." Below the menu is a table of search results with columns for #, Title, Appl. Date, Appl. No., and Curr. Assignee. A callout box on the left says: "Click on '+' to expand the patents with the same family ID in the search results." The table shows several rows of patent information, including titles like "Semiconductor device having antenna over thin ..." and "SEMICONDUCTOR DEVICE AND METHOD FOR ...".



The screenshot shows the "Preferences" dialog box with the "Collapse Settings" tab selected. The dialog has three tabs: "Search Setting", "Patent List", and "Collapse Settings". Under "Collapse Settings", there are two sections: "By Appl. No." and "By Family". Each section has a "Preferred Date (Pub./Issue Date)" setting with radio buttons for "Most Recent" (selected) and "Earliest". At the bottom of the dialog are three buttons: "Reset to Default", "Cancel", and "OK".



For Quick Search, Advanced Search, and Number Search, the **representative patent** shown in the results after collapsing may differ depending on your preference settings. E.g., If the setting is set as "Most Recent" and collapsed by Family, the representative patent of each family would be the patent with the most recent Pub./Issue Date.

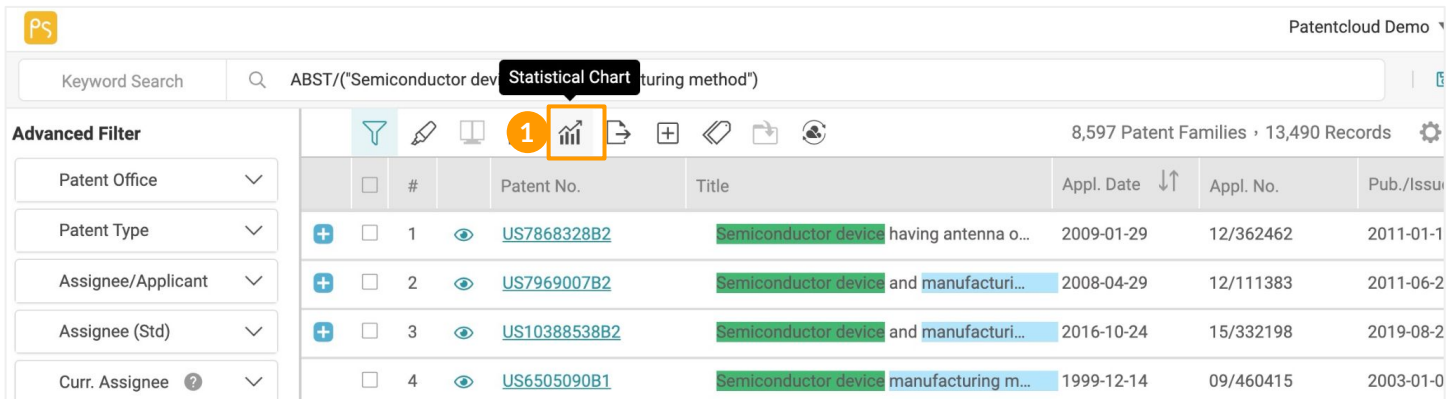
For Semantic Search, the order of the results (#) will still be based on the family member with the highest semantic similarity.

Statistical Chart

Perform basic analyses of your search results in *Patent Search* by creating visual charts. The Statistical Chart tool allows you to generate line, bar, column, and pie charts.

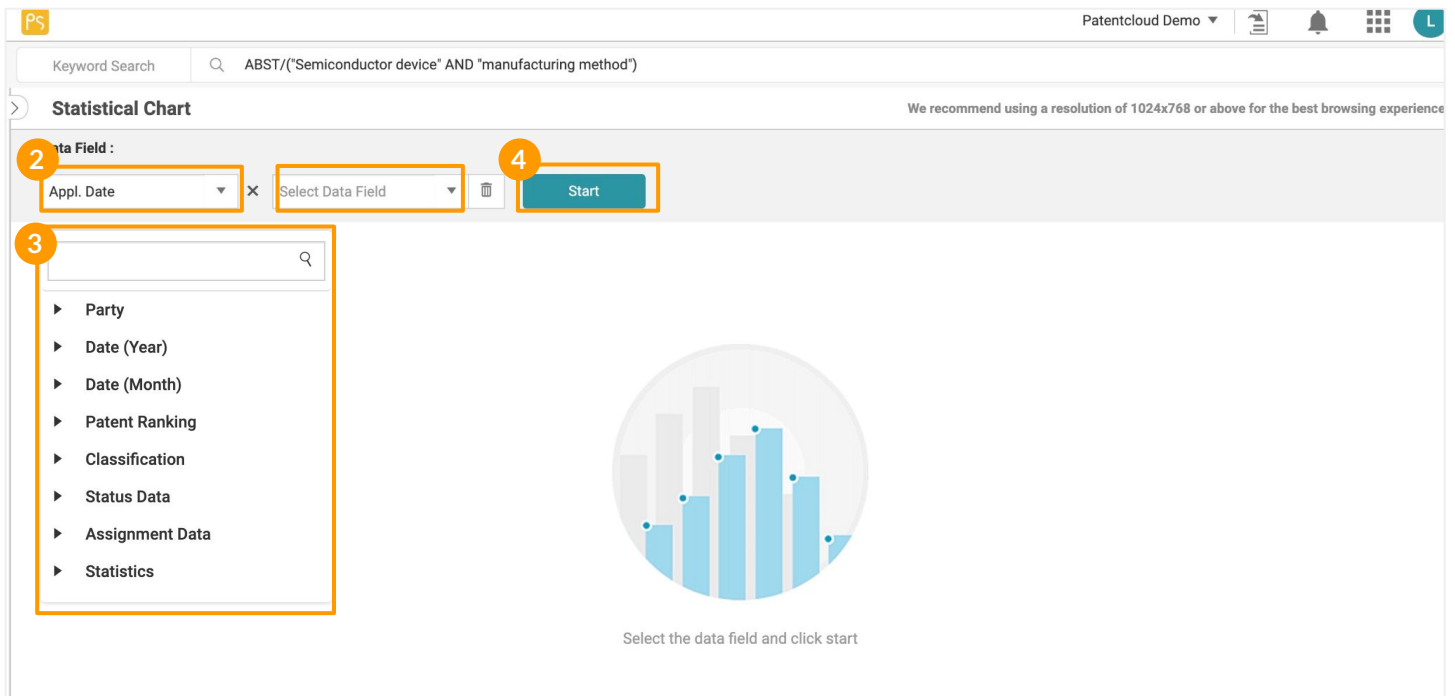
To create a chart:

1. Click on the Statistical Chart button to open the statistical chart feature in a new tab in your browser.



	#	Patent No.	Title	Appl. Date	Appl. No.	Pub./Issu
+ □	1	US7868328B2	Semiconductor device having antenna o...	2009-01-29	12/362462	2011-01-1
+ □	2	US7969007B2	Semiconductor device and manufacturi...	2008-04-29	12/111383	2011-06-2
+ □	3	US10388538B2	Semiconductor device and manufacturi...	2016-10-24	15/332198	2019-08-2
□	4	US6505090B1	Semiconductor device manufacturing m...	1999-12-14	09/460415	2003-01-0

2. Click the drop-down menus in the Data Field section to view the various data fields.
3. Use the drop-down menu(s) to select the data fields for generating the statistical chart.
4. After selecting the desired data field(s), click **Start** to create a statistical chart. In this case, two data fields were selected.



Statistical Chart

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

Data Field :

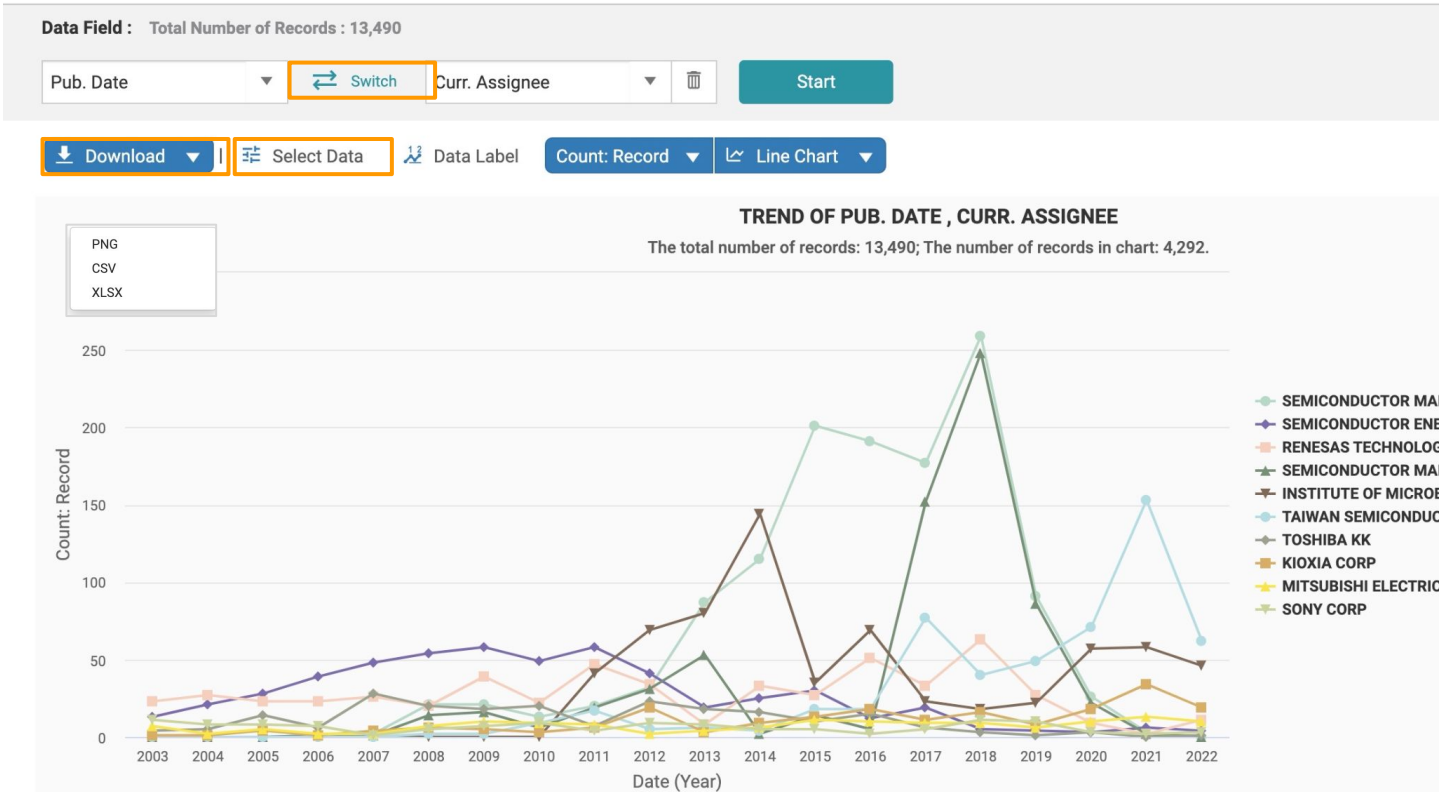
Appl. Date × Select Data Field Start

- ▶ Party
- ▶ Date (Year)
- ▶ Date (Month)
- ▶ Patent Ranking
- ▶ Classification
- ▶ Status Data
- ▶ Assignment Data
- ▶ Statistics

Select the data field and click start

Statistical Chart

生成图表后，你可以使用统计图表页面的各种工具来定制图表中使用和显示的数据。



Statistical Chart tools:

Switch ↔ Switch

If a chart consists of two data fields, click on Switch to switch the X and Y fields. Click **Start** to re-generate the chart.

Download Download

You can download the chart as a .png image file, or the data in .csv or .xlsx format.

Select Data Select Data

By default, the Statistical Chart provides the top 10 records when analyzing the selected fields. Use Select Data to adjust the number of records displayed. You can select up to 100 records; those that exceed this number will not be shown.

Select Data : 🗑️

Switch the X and Y axis

Pub. Date Curr. Assignee

- CHINESE ACADEMY OF SCIENCES
- TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD
- TOSHIBA KK
- KIOXIA CORP
- MITSUBISHI ELECTRIC CORP
- SONY CORP
- FUJITSU SEMICONDUCTOR

Cancel Apply

Note: If you use the "Classification" item, it can only be used in the X field for single-field analysis. If you want to compare it with another item, the Classification item can only be selected under the Y field.

Statistical Chart

Statistical Chart tools:

Data Label  Data Label

Click on **Data Label** to show the data values in the chart.

Count **Count: Family** ▼

Choose how you want to view the data count – by records, applications, or family.

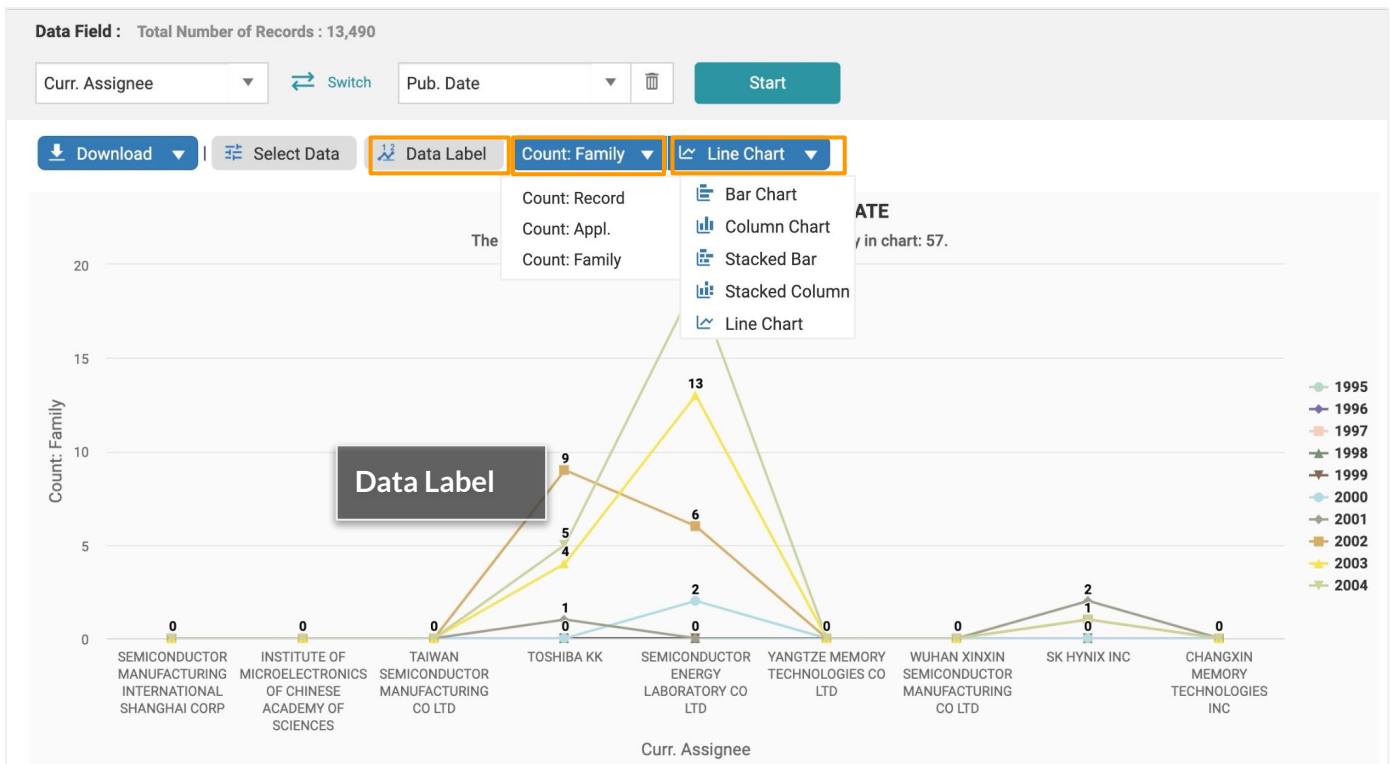
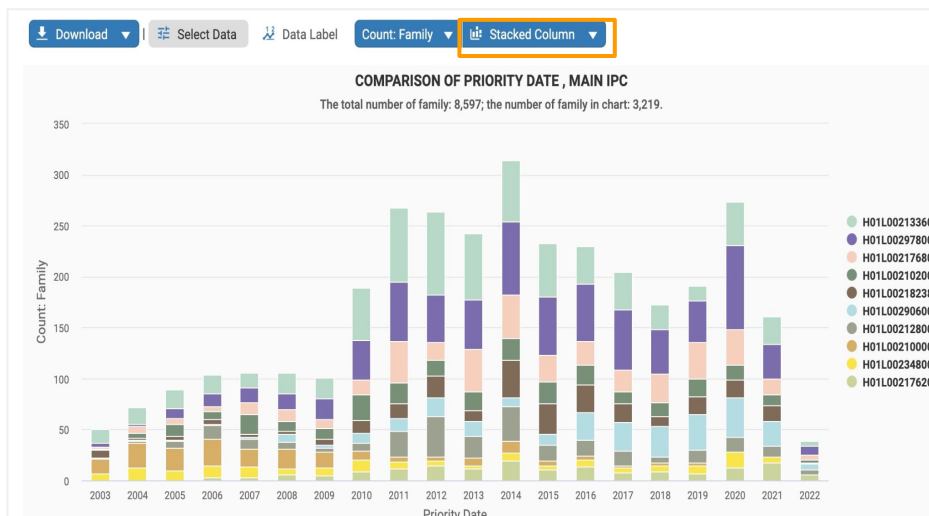


Chart Type **Line Chart** ▼

Press the Chart button to select the type of chart you prefer (line, bar, column, or pie). Please note that only the line chart supports time-related data fields.




Statistical Chart

Statistical Chart tools:

Filter

You can further narrow down your search by using various parameters to filter your search results. Select the parameters you wish to filter by (on the left-hand side of the page), and then press **Filter**. If you cannot see the filter panel, click on the expand arrow icon on the upper left.

Advanced Filter [Clear All](#)  **Statistical Chart** We recommend using a resolution of 1024

Patent Office, Legal Status

Patent Office

- (6571) CN - China
- (5509) US - United States
- (827) WO - WIPO
- (534) EP - EPO
- (29) SG - Singapore
- (15) MY - Malaysia
- (2) EA - Eurasian Pa...
- (2) PH - Philippines
- (1) UA - Ukraine

Patent Type


- (13465) Utility Patent
- (25) Utility Model




Assignee/Applicant

Assignee (Std)

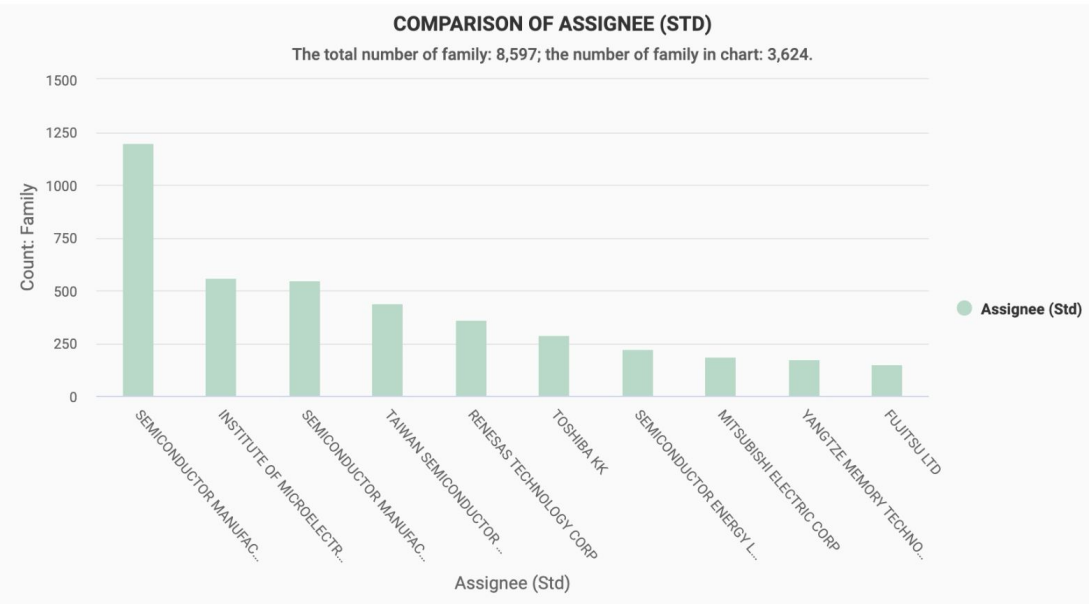
Filter

Data Field : Total Number of Records : 13,490

Assignee (Std) × Select Data Field  **Start**

Download  **Select Data**  **Data Label** **Count: Family**  **Column Chart**

COMPARISON OF ASSIGNEE (STD)
The total number of family: 8,597; the number of family in chart: 3,624.



Assignee (Std)	Count: Family
SEMICONDUCTOR-MANUFAC...	1200
INSTITUTE OF MICROELECTR...	550
SEMICONDUCTOR-MANUFAC...	550
TAIWAN SEMICONDUCTOR...	450
RENESAS TECHNOLOGY CORP...	350
TOSHIBA KK	300
SEMICONDUCTOR ENERGY L...	250
MITSUBISHI ELECTRIC CORP...	200
YANGTZE MEMORY TECHNO...	180
FUJITSU LTD	150

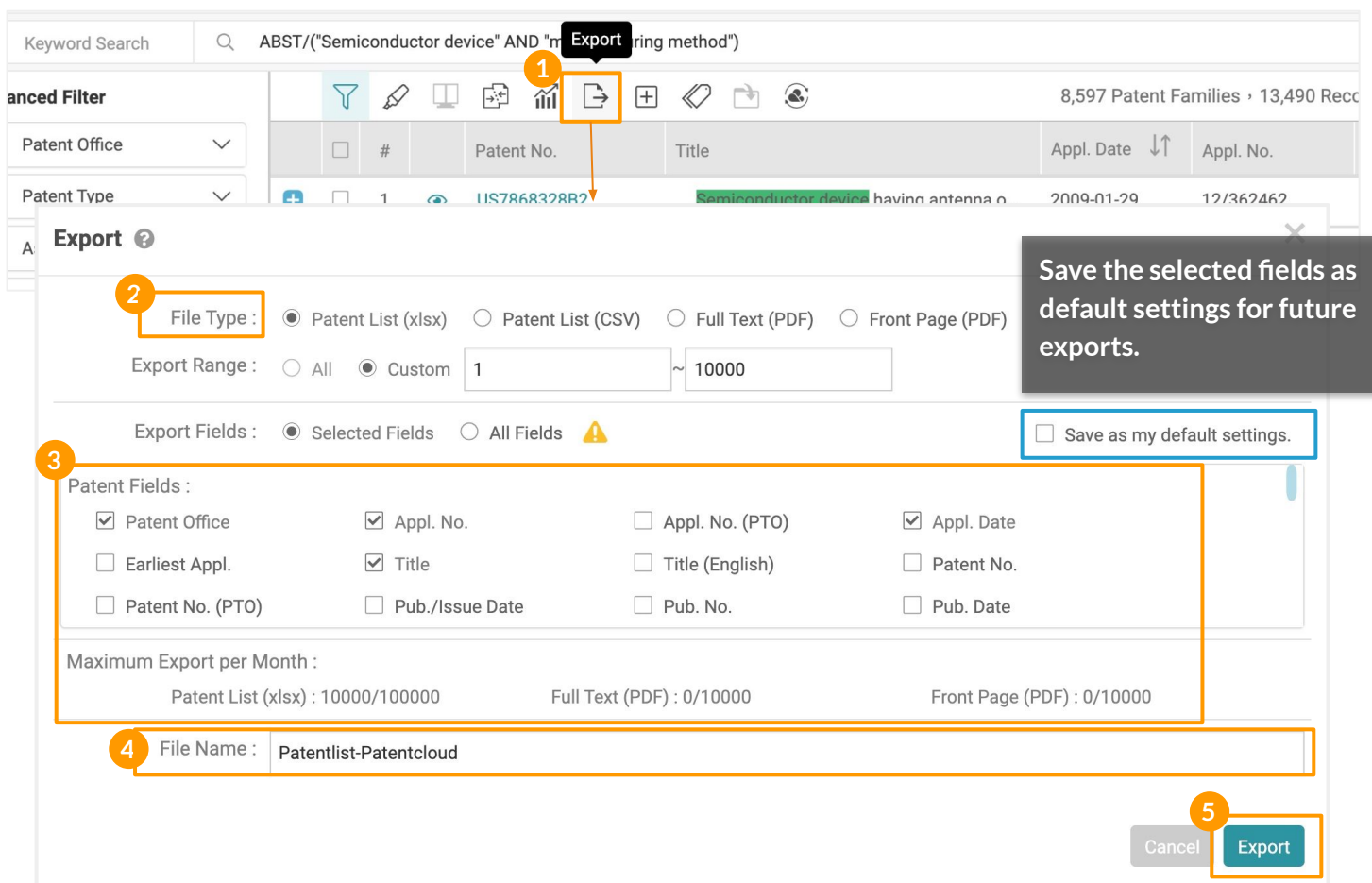
Please see the [Search Results - Advanced Filter](#) page for more details on the filter functions.

Export

You can export your search results in various file formats, including a patent list (.xls or .csv), a full-text patent document (.zip), and the front page of a patent document (.pdf).

To export patents:

1. Select the patents you want to export or click on the Export icon to select all results. A pop-up window will appear.
2. Select the file format you want.
3. Select which items and fields to export. (Please note your export quota*.)
4. Name the file.
5. Then, click **Export** to start downloading the file.



Keyword Search

Advanced Filter 8,597 Patent Families · 13,490 Records

Patent Office	#	Patent No.	Title	Appl. Date	Appl. No.
	1	US7868328B2	Semiconductor device having antenna...	2009-01-29	12/362462

Export

File Type: Patent List (xlsx) Patent List (CSV) Full Text (PDF) Front Page (PDF)

Export Range: All Custom ~

Export Fields: Selected Fields All Fields ⚠ Save as my default settings.

Patent Fields:

<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

Maximum Export per Month:

Patent List (xlsx) : 10000/100000 Full Text (PDF) : 0/10000 Front Page (PDF) : 0/10000

File Name:

* Export Quota:

Patent Search monthly export quota: 10,000 patents (.xlsx/.csv) and 1,000 full page/front page patents (.pdf).

Export Options: Representative Patents Only

If your search results are collapsed by application number or family, there will be an additional option for you to select – Export Options: Representative Patent Only.

<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	US7868328B2	having antenna...	2009-01-29	12/362462
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2	US7969007B2	and manufactur...	2008-04-29	12/111383

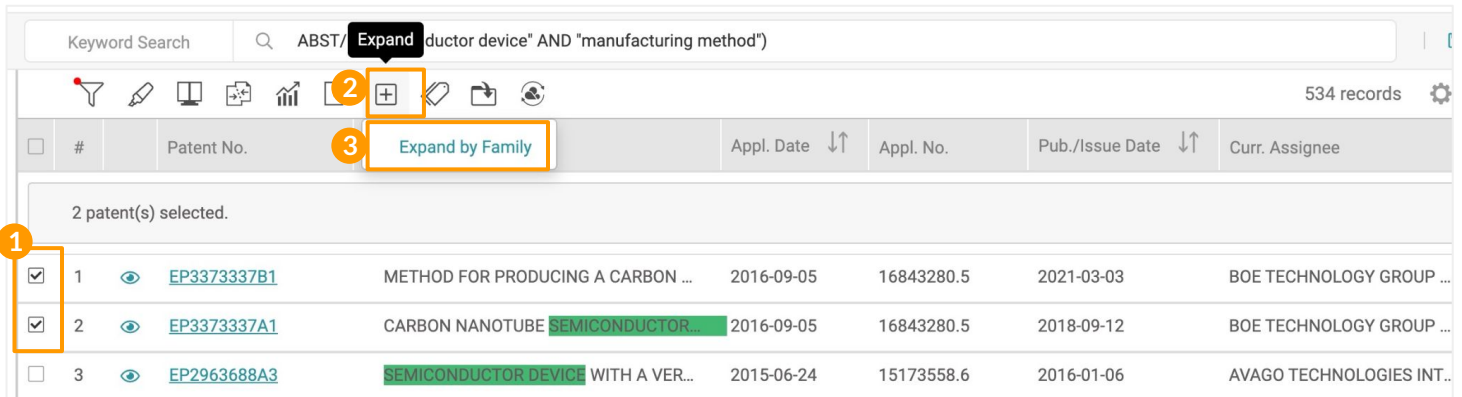
A representative patent

Expand

Expand your search results and find a patent's family members through family identification.

To expand patents:

1. Select the patents you want to expand.
2. Click on the Expand icon.
3. Then, click **Expand by Family** to open a new browser tab with the expanded family results.

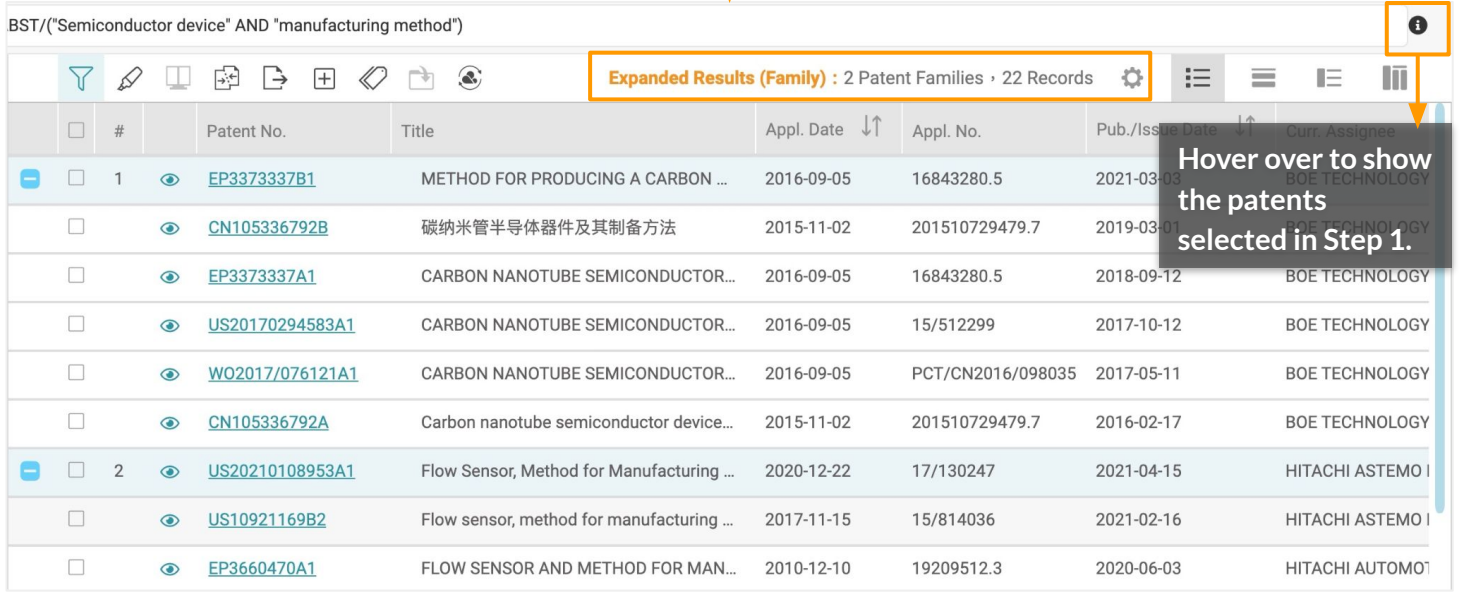


Keyword Search

534 records

#	Patent No.	Expand by Family	Appl. Date	Appl. No.	Pub./Issue Date	Curr. Assignee
2 patent(s) selected.						
<input checked="" type="checkbox"/>	EP3373337B1		2016-09-05	16843280.5	2021-03-03	BOE TECHNOLOGY GROUP ...
<input checked="" type="checkbox"/>	EP3373337A1		2016-09-05	16843280.5	2018-09-12	BOE TECHNOLOGY GROUP ...
<input type="checkbox"/>	EP2963688A3		2015-06-24	15173558.6	2016-01-06	AVAGO TECHNOLOGIES INT..

EP3373337B1,EP3373337A1



BST/("Semiconductor device" AND "manufacturing method")

Expanded Results (Family) : 2 Patent Families · 22 Records

#	Patent No.	Title	Appl. Date	Appl. No.	Pub./Issue Date	Curr. Assignee
<input type="checkbox"/>	EP3373337B1	METHOD FOR PRODUCING A CARBON ...	2016-09-05	16843280.5	2021-03-03	BOE TECHNOLOGY
<input type="checkbox"/>	CN105336792B	碳纳米管半导体器件及其制备方法	2015-11-02	201510729479.7	2019-03-01	BOE TECHNOLOGY
<input type="checkbox"/>	EP3373337A1	CARBON NANOTUBE SEMICONDUCTOR...	2016-09-05	16843280.5	2018-09-12	BOE TECHNOLOGY
<input type="checkbox"/>	US20170294583A1	CARBON NANOTUBE SEMICONDUCTOR...	2016-09-05	15/512299	2017-10-12	BOE TECHNOLOGY
<input type="checkbox"/>	WO2017/076121A1	CARBON NANOTUBE SEMICONDUCTOR...	2016-09-05	PCT/CN2016/098035	2017-05-11	BOE TECHNOLOGY
<input type="checkbox"/>	CN105336792A	Carbon nanotube semiconductor device...	2015-11-02	201510729479.7	2016-02-17	BOE TECHNOLOGY
<input type="checkbox"/>	US20210108953A1	Flow Sensor, Method for Manufacturing ...	2020-12-22	17/130247	2021-04-15	HITACHI ASTEMO I
<input type="checkbox"/>	US10921169B2	Flow sensor, method for manufacturing ...	2017-11-15	15/814036	2021-02-16	HITACHI ASTEMO I
<input type="checkbox"/>	EP3660470A1	FLOW SENSOR AND METHOD FOR MAN...	2010-12-10	19209512.3	2020-06-03	HITACHI AUTOMO

Hover over to show the patents selected in Step 1.

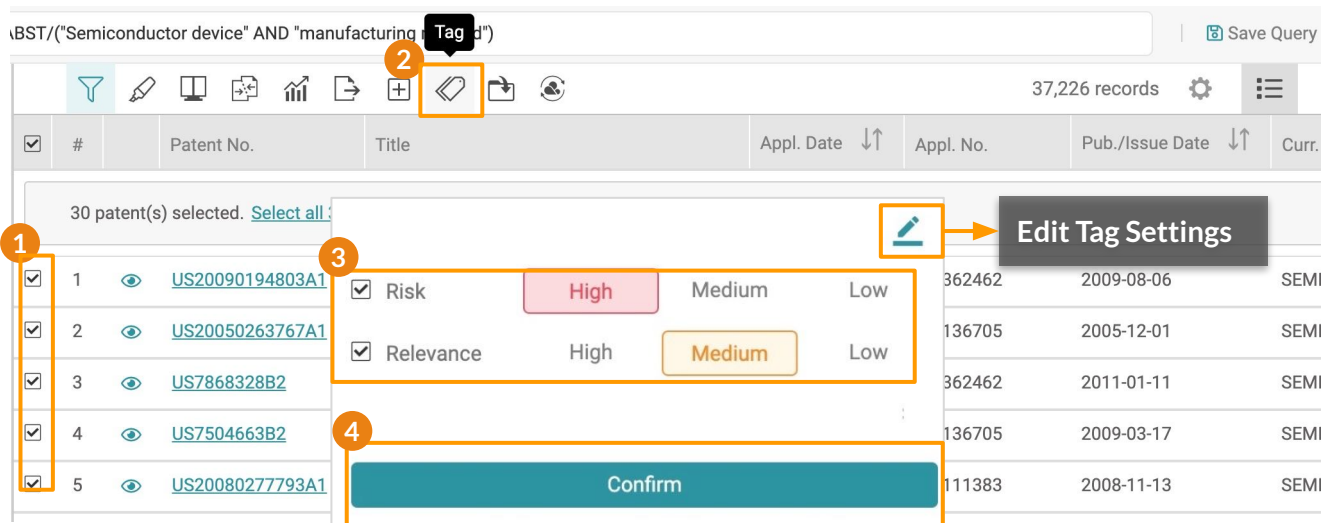
Note: The Expand function is available for a query scope within the maximum amount of 6,000 records. If the query result exceeds the limit, amend your query or use filters to adjust the scope if needed.

Tag

在检索结果页上对选定的专利应用自我定义的标签。所有被标记的专利将被保存在你的 *Patent Vault* 项目中一个单独的标签资料夹中。

To tag patents:

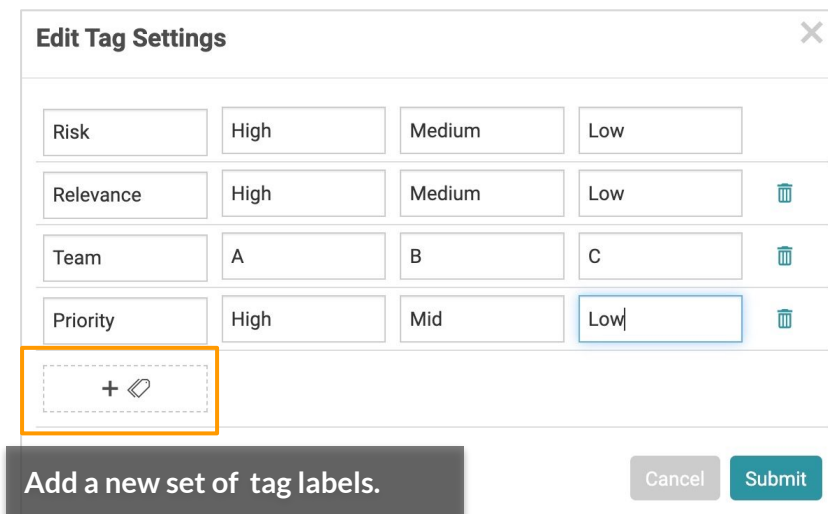
1. Select the patents you want to tag.
2. Click on the Tag icon from the toolbar.
3. You can choose from the default labels: Risk and Relevance, and select the type or ranking, say, either High, Medium, or Low. Click **Confirm** once you are done tagging.
4. You can view the tagged patent(s) in your Tagged folder in *Patent Vault*.







#	Patent No.	Title	Appl. Date	Appl. No.	Pub./Issue Date	Curr.		
1	US20090194803A1	Risk	High	Medium	Low	362462	2009-08-06	SEMI
2	US20050263767A1	Relevance	High	Medium	Low	136705	2005-12-01	SEMI
3	US7868328B2					362462	2011-01-11	SEMI
4	US7504663B2					136705	2009-03-17	SEMI
5	US20080277793A1					111383	2008-11-13	SEMI

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Subject	Label 1	Label 2	Label 3	Actions
Risk	High	Medium	Low	
Relevance	High	Medium	Low	
Team	A	B	C	
Priority	High	Mid	Low	

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37,234 records

#	Patent No.	Title	Appl. Date	Appl. No.	Pub./Issue Date	Curr. Assi
1	US20090194803A1	SEMICONDUCTOR DEVICE AND METHO...	2009-01-29	12/362462	2009-08-06	SEMICON
2	US20050263767A1	Semiconductor device and method for ...	2005-05-25	11/136705	2005-12-01	SEMICON
3	US7868328B2	Semiconductor device having antenna o...	2009-01-29	12/362462	2011-01-11	SEMICON
4	US7504663B2	Semiconductor device with a floating ga...	2005-05-25	11/136705	2009-03-17	SEMICON

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SEP - DEMO

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Patent list (99,663/100,000)

- Technical Spec (0)
- Company (18,662)
- Google - High ER (49)
- Untitled folder (0)
- Untitled folder

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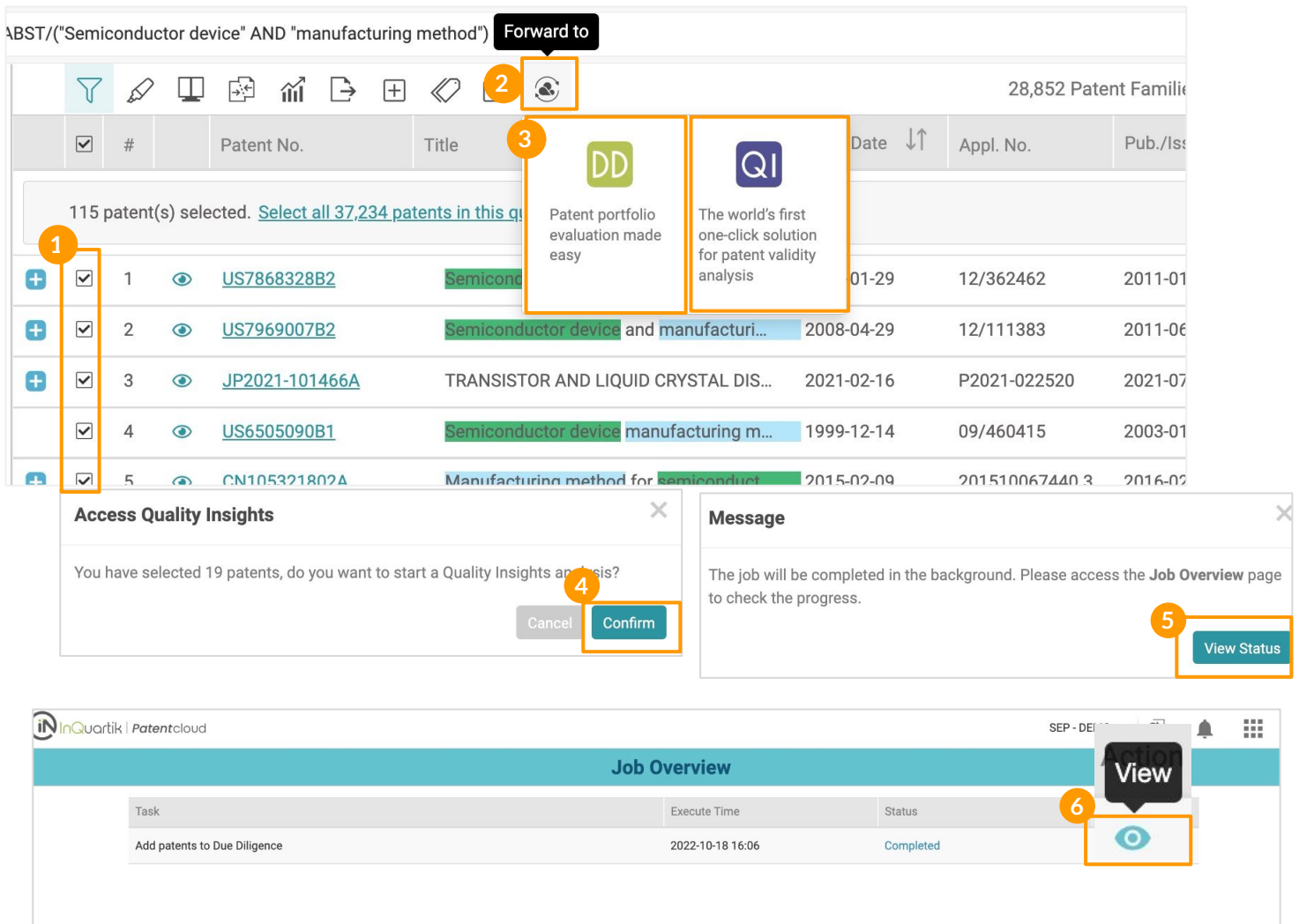
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4. Click **Confirm** on the pop-up window (When forwarding patents to *Quality Insights*, the *Quality Insights* Search Summary page will be opened in a new tab.)
5. When forwarding patents to *Due Diligence*, click **View Status** to view the task's progress on the Job Overview page.
6. Click on the eye icon on the Job Overview page to open the *Due Diligence*'s Dashboard.



ABST/("Semiconductor device" AND "manufacturing method") **Forward to**

28,852 Patent Families

<input checked="" type="checkbox"/>	#	Patent No.	Title	Date	Appl. No.	Pub./Iss
<input checked="" type="checkbox"/>	1	US7868328B2	Semicono	01-29	12/362462	2011-01
<input checked="" type="checkbox"/>	2	US7969007B2	Semiconductor device and manufacturi...	2008-04-29	12/111383	2011-06
<input checked="" type="checkbox"/>	3	JP2021-101466A	TRANSISTOR AND LIQUID CRYSTAL DIS...	2021-02-16	P2021-022520	2021-07
<input checked="" type="checkbox"/>	4	US6505090B1	Semiconductor device manufacturing m...	1999-12-14	09/460415	2003-01
<input checked="" type="checkbox"/>	5	CN105321802A	Manufacturing method for semiconduct	2015-02-09	201510067440.3	2016-02

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Job Overview

Task	Execute Time	Status
Add patents to Due Diligence	2022-10-18 16:06	Completed

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- The Patent Page
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- Full text
- Simple family members
- Extended family members
- Citations
- History
- Litigation history
- SEP declaration
- Original document

<input type="checkbox"/>	#	<input type="checkbox"/>	Patent No.	Title	Appl. Date	Appl. No.	Pub./Issue Da
<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	US7868328B2	Semiconductor device having antenna o...	2009-01-29	12/362462	2011-01-11
<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	US7969007B2	Semiconductor device and manufacturi...	2008-04-29	12/111383	2011-06-28
<input checked="" type="checkbox"/>	3	<input type="checkbox"/>	US10388538B2	Semiconductor device and manufacturi...	2016-10-24	15/332198	2019-08-20
<input type="checkbox"/>	4	<input type="checkbox"/>	US6503090B1	Semiconductor device manufacturing m...	1999-12-14	09/460415	2003-01-07

Patentcloud
Project_20220330_1 7

US10388538B2 Active

Quality: D Value: B Risk Rel...

Semiconductor device and manufacturing method thereof

Full Text
Simple Family
Extended Family
Citations
History
Original Document

Abstract (Other language versions are not available.)

An object of the present invention to provide a highly reliable semiconductor device. Another object is to provide a manufacturing method of a highly reliable semiconductor device. Still another object is to provide a semiconductor device having low power consumption. Yet another object is to provide a manufacturing method of a semiconductor device having low power consumption. Furthermore, another object is to provide a semiconductor device which can be manufactured with high mass productivity. Another object is to provide a manufacturing method of a semiconductor device which can be manufactured with high mass productivity. An impurity remaining in an oxide semiconductor layer is removed so that the oxide semiconductor layer is purified to have an extremely high purity. Specifically, after adding a halogen element into the oxide semiconductor layer, heat treatment is performed to remove an impurity from the oxide semiconductor layer. The halogen element is preferably fluorine.

Bibliography

Earliest Priority : 2010-03-05
Earliest Appl. : 2011-02-25
Legal Status : Estimated Exp. Date: 2031-02-25. 20 years from filing date
 2011-02-25 of 13/034726 Last Updated On 2022-03-09
Curr. Assignee : [SEMICONDUCTOR ENERGY LABORATORY CO LTD](#) 2019-09-23
Assignee (Std) : [SEMICONDUCTOR ENERGY LABORATORY CO LTD](#)
 [+Orig. Assignee]
Patent Family : 15 Members ([Family ID : 44530525](#))

Figure (23)

For more about the tools on the patent page, please see the following pages: [Highlighter](#), [Compare](#), [Memo](#), [Tag](#), [Add to Patent Vault](#), and [Forward to](#).

Full Text

View the basic information of a patent, such as the Title, Abstract, Legal Status, Specification, Quality, and Value rankings, Bibliography, Figures, and Claims.

US8996003B2 Active

Quality: A Value: A

Show/Hide the tags set in the search result page or Patent Vault.

Method, terminal, and system for cell reselection

Full Text Simple Family Extended Family Citations History SEP Declarations Litigation Original Document

Abstract (Other language versions are not available.)

A method, terminal, system and computer readable medium for cell reselection are disclosed. When in a cell of a Long Term Evolution (LTE) system, the terminal receives a message from the LTE system. The message includes a dedicated priority list for the cell reselection. When the terminal camps on a cell of a non-LTE system, the terminal performs inter-system cell reselection in accordance with the dedicated priority list before a valid time of the dedicated priority list expires. With the disclosed method, terminal and system, the problems of establishing a dedicated priority list causes too much increased signaling and too high costs for network update in the prior art when perform inter-system cell (re)selection are effectively resolved.

Figure (4)

Click on a figure to view the larger image.

Clickable links lead you to the search result page of the query.

Bibliography

Earliest Priority : 2008-04-09
Earliest Appl. : 2009-04-08
Legal Status : Estimated Exp. Date: 2029-04-08; 20 years from filing date 2009-04-08 of PCT/CN2009/071194 Last Updated On 2022-10-07
Curr. Assignee : [HUAWEI TECHNOLOGIES CO LTD](#) 2022-05-10
Assignee (Std) : [HUAWEI TECHNOLOGIES CO LTD](#) [-Orig. Assignee]
Orig. Assignee : [Huawei Technologies Co., Ltd. \(Shenzhen CN\)](#)
Applicant : [HUAWEI TECHNOLOGIES CO., LTD. \(Shenzhen, Guangdong CN\)](#)
Patent Family : 23 Members([Famil ID : 41161553](#))

Claim (Other language versions are not available.)

20 Claims | 2 Independent Claims

1. A method, comprising: a computer program code including executable instructions, which, when executed by a terminal device, cause the terminal device to perform a method for cell reselection as follows: when in a cell of a Long Term Evolution (LTE) system, a message including a dedicated priority list from the LTE system; and when the terminal device camps on a cell of a non-LTE system, the cell reselection in accordance with the received dedicated priority list before a valid time of the dedicated priority list expires.

Switch to view claims by:

- Independent Claims
- Claim Tree
- Claim List

15. Claim# 15
An apparatus comprising: a non-transitory storage medium including executable instructions; and a processor; wherein the executable instructions, when executed by the processor, cause the apparatus to: receive, when in a cell of a Long Term Evolution (LTE) system, a message including a dedicated priority list from the LTE system; and perform, when camping on a cell of a non-

This application is a continuation of U.S. patent application Ser. No. 13/072,494, filed on Nov. 8, 2012, which is a continuation of U.S. patent application Ser. No. 12/902,933, filed on Oct. 12, 2010, and issued on Apr. 2, 2013 as U.S. Pat. No. 8,412,197, which in turn is a continuation of International Patent Application No. PCT/CN2009/071194, filed on Apr. 8, 2009. The International Patent Application claims priority to Chinese Patent Application No. 200810091957.6, filed on Apr. 9, 2008. The aforementioned patent applications and patent are hereby incorporated by reference in their entireties.

[0002]
This application is related to U.S. Pat. No. 8,041,355, filed on Nov. 29, 2010, and issued on Oct. 18, 2011, and U.S. Pat. No. 8,185,111, filed on Oct. 10, 2011, and issued on May 22, 2012.

FIELD OF THE INVENTION

[0003]
The present invention relates to a field of mobile communications, and more particularly, to a method, terminal, and system for cell reselection.

BACKGROUND

[0004]
With developments in the mobile communication field, various mobile communication



For more about the tools on the patent page, please see the following pages: [Highlighter](#), [Compare](#), [Memo](#), [Tag](#), [Add to Patent Vault](#), and [Forward to](#).

Simple Family

The list of the patent's simple family* members can be viewed under this tab.

Under the **List view**, you can use the Search bar on the right to narrow down results.

US8904289B2 Active

Quality : B Value : AAA Risk Rel...

Play control of content on a display device

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	Family ID
1	KR1020140051850A	PLAY CONTROL OF CONTENT ON A DISPLAY ...	Abandoned Appl.	2012-04-12	1020137030600	2011-04-21	47022227
2	US8904289B2	Play control of content on a display device	Active	2011-06-10	13/157821	2011-04-21	47022227
3	US8782528B2	Play control of content on a display device	Active	2013-01-08	13/736590	2011-04-21	47022227
4	WO2012/145227A1	PLAY CONTROL OF CONTENT ON A DISPLAY ...	PCT End - NP	2012-04-12	PCT/US2012/033314	2011-04-21	47022227
5	CN103748531A	Play control of content on a display device	Abandoned Appl.	2012-04-12	201280030724.X	2011-04-21	47022227
6	CA2833970A1	PLAY CONTROL OF CONTENT ON A DISPLAY ...	Abandoned Appl.	2012-04-12	20122833970	2011-04-21	47022227

Switch to the **Tree view** to visualize the patent jurisdictions and application timeline of family members. The highlighted patent pertains to the patent page currently in view.

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

Simple Family : 13

Filters Settings Enlarge Download

2011

SG JP KR WO EP MX CN US

2012

US8904289B2 2011-06-10 Active

US8904289B2 2011-09-26 Active

2013

US8782528B2

Play control of content on a display device

Active

Abstract

A system for presenting and controlling content on a display device includes a network, a server system coupled to the network and comprising one or more servers, a display device coupled to the network and having a display, and a personal computing device operable to transmit a first message according to a specified format over the network to the server system. The server system stores an association between the display device and the personal computing device. The first message identifies user-selected content and a media player to play the content. In response to receiving the first message from the personal computing device, to provide to the display device a second message identifying the user-selected content and the media player to play the content. In response to receiving the second message, the display device is operable to obtain a first media player needed to play the content, to load the media player and to present the content on the display.

Zoom in /zoom out.

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

Hover over a patent to view its title, legal status, abstract, bibliography, and figure(s).

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

Simple Family - Tree View Tools

With the **Tree View**, there are a few tools available for you to use.



Click on **Filters** to narrow down results by patent office and application date.

By clicking on **Settings**, you can define the patent data fields you want to display.

The screenshot shows two side-by-side panels. The **Filters** panel on the left has a dropdown menu for 'Patent Office' and 'Appl. Date'. Below the dropdowns is a list of countries with checkboxes: US - United States(3) (checked), BR - Brazil(1), AU - Australia(1), SG - Singapore(1), JP - Japan(1) (checked), KR - Korea(1), WO - WIPO(1), EP - EPO(1), MX - Mexico(1), CN - China(1), and CA - Canada(1). At the bottom of the filters panel are 'Clear All Filters', 'Cancel', and 'Confirm' buttons. The **Settings** panel on the right has a list of data fields with checkboxes: patentNumber (checked), appDate (checked), status (checked), title (unchecked), appNumber (unchecked), currAssignee (unchecked), origAssignee (unchecked), and inventors (unchecked). At the bottom of the settings panel are 'Cancel' and 'Save' buttons.

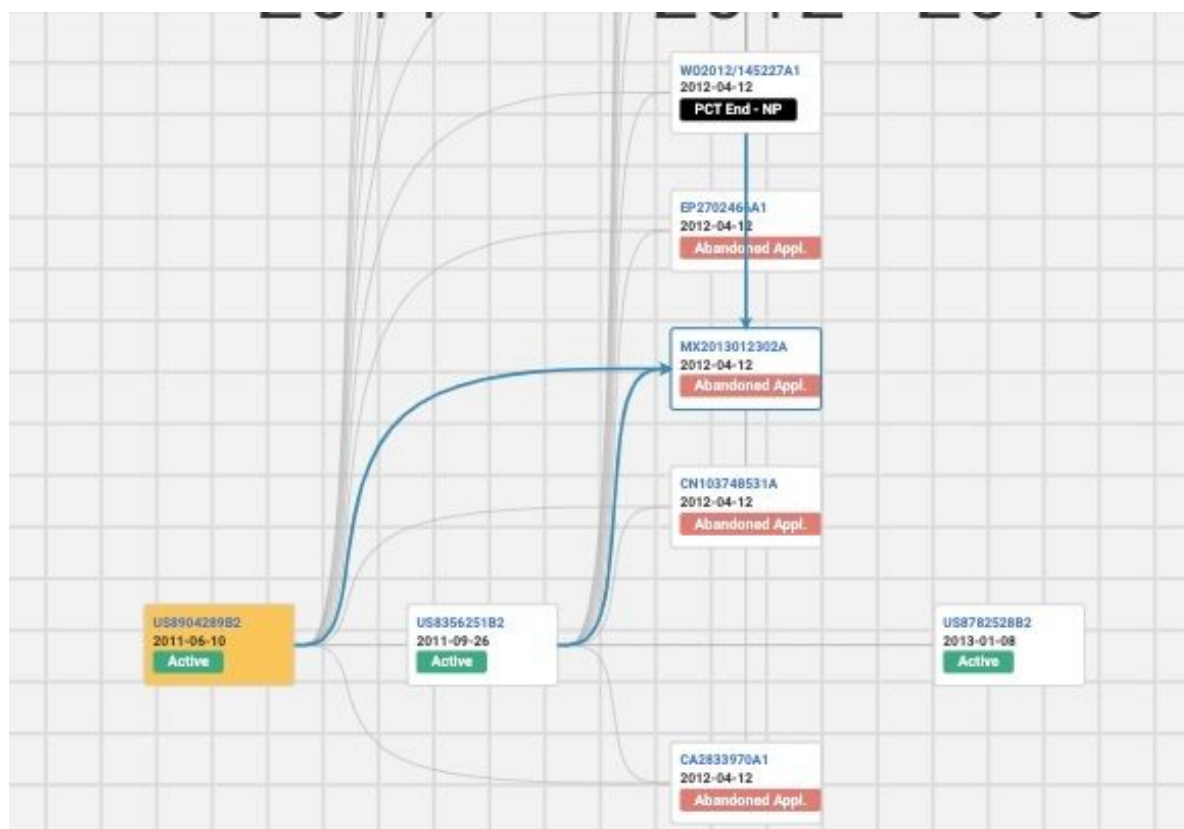
Click on **Enlarge** to use a larger portion of the screen to view the tree. Click **Reduce** to revert to the original portion.

The screenshot shows a patent tree view for **US8904289B2**, which is marked as **Active**. At the top, there are navigation buttons: **Filters**, **Settings**, **Reduce** (highlighted), and **Download**. The tree view is displayed on a grid with columns for the years 2011, 2012, and 2013. In 2011, there are nodes for **BR** and **AU**. In 2012, there are nodes for **SG**, **AU2012245767A1** (dated 2012-04-12, labeled 'Abandoned Appl.'), and **SG194565A1** (dated 2012-04-12, labeled 'Pending').

To download as a .jpg image, set the view you want (zoomed in or zoomed out) before clicking **Download**.

Simple Family - Tree View

The Tree View also displays the Earliest Priority date of each patent and the relationships among family members. These arrow connectors will also appear in the downloaded JPG image.



Extended Family

The list of the patent's extended family* members can be viewed under this tab.

The Extended Family tab comprises the same features as the [Simple Family](#) tab.

US8904289B2 Active

Quality : B Value : AAA ↶ Risk Rel...

Play control of content on a display device

[Full Text](#) [Simple Family](#) Extended Family [Citations](#) [History](#) [Litigation](#) [Original Document](#)

Extended Family : 19 ☰ 🔍

		#	Patent No.	Title	Legal Status	Appl. Date	Appl. No.	Earliest Priority	Family ID
+	<input type="checkbox"/>	1	US8904289B2	Play control of content on a display device	Active	2011-06-10	13/157821	2011-04-21	47022227
+	<input type="checkbox"/>	2	US8356251B2	Play control of content on a display device	Active	2011-09-26	13/245001	2011-04-21	47022227
	<input type="checkbox"/>	3	AU2012245767A1	Play control of content on a display device	Abandoned Appl.	2012-04-12	20120245767	2011-04-21	47022227
	<input type="checkbox"/>	4	BR112013027106A2	controle de reprodução de conteúdo em um di...	Abandoned Appl.	2012-04-12	20131127106	2011-04-21	47022227
	<input type="checkbox"/>	5	CA2833970A1	PLAY CONTROL OF CONTENT ON A DISPLAY ...	Abandoned Appl.	2012-04-12	20122833970	2011-04-21	47022227
	<input type="checkbox"/>	6	CN103748531A	Play control of content on a display device	Abandoned Appl.	2012-04-12	201280030724 X	2011-04-21	47022227

* By 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).

Citations

Under Citations, you can view the list of patents that either cited this patent (forward citation) or was cited by this patent (backward citation).

US8904289B2 Active

Quality: B Value: AAA Risk Rel...

Play control of content on a display device

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^ **Forward (Referenced By) : 78**

#	Patent No.	Title	Appl. Date	Appl. No.	Assignee (Std)	Earliest Priority	Family ID
1	US20170353506A1	DYNAMICALLY ENABLING USER DEVICE ...	2017-08-22	15/683338	GUEST TEK INTERACTIVE E...	2012-06-22	49775366
2	US20190129587A1	GENERATING A PLAYLIST BASED ON CO...	2018-12-24	16/231809	LEAF GROUP LTD	2013-05-14	51896839
3	US9038908B2*	Methods and systems for optimizing visu...	2013-04-10	13/860296	XEROX CORP	2013-04-10	51686563
4	CN105264902A*	System for universal remote media contr...	2014-05-08	201480027596.2	GOOGLE LLC	2013-05-14	51896838
5	CN105264902B*	用于多用户、多平台、多设备环境中的通...	2014-05-08	201480027596.2	GOOGLE LLC	2013-05-14	51896838

^ **Backward (References Cited) : 284**

#	Patent No.	Title	Appl. Date	Appl. No.	Assignee (Std)	Earliest Priority	Family ID
1	US20090094331A1	INFORMATION PROCESSING UNIT, CON...	2008-09-26	12/238701	NOBORI FUJIO	+2 2007-10-05	40524247
2	US20020120666A1	Apparatus and accompanying methods ...	2001-09-13	09/950963	LANDSMAN RICK W	+1 1998-05-15	26763158
3	US20040268451A1	Graphical user interface for browsing, se...	2004-04-26	10/832984	APPLE INC	2003-04-25	33425176
4	US8553646B2	Employing physical location geo-spatial ...	2009-08-10	12/538407	AT&T INTELLECTUAL PROP...	2009-08-10	43534791
5	US7835505B2	Phone-to-monitor connection device	2005-05-13	11/129675	MICROSOFT CORP	2005-05-13	37420694

^ **Non-Patent Literature : 25**

- *Bing search q=mobile+server+television+control&q Jun. 26, 2014. cited by examiner .
- *Bing search q=phone+server+television+control&qs Jun. 26, 2014. cited by examiner .
- *Bing search q=phone+server+television+control+me Jun. 26, 2014. cited by examiner .
- *Bing search q=mobile+server+television+control+m Jun. 26, 2014. cited by examiner .
- Ask Search Internet Search, session identifier random, printed on Nov. 19, 2011. cited by applicant .
- Webopedia computer dictionary, session cookie, printed on Nov. 19, 2011. cited by applicant .
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- www.vbulletin.com, Best way to generate Random, Unique ID's, printed on Nov. 19, 2011. cited by applica

• No Available Data

*Cited by Examiner

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#	Patent No.	Title	Appl. Date	Appl. No.	Assignee (Std)	Earliest Priority	Family ID
1	US9038908B2*	Methods and systems for optimizing visu...	2013-04-10	13/860296	XEROX CORP	2013-04-10	51686563
2	CN105264902A*	System for universal remote media contr...	2014-05-08	201480027596.2	GOOGLE LLC	2013-05-14	51896838
3	CN105264902B*	用于多用户、多平台、多设备环境中的通...	2014-05-08	201480027596.2	GOOGLE LLC	2013-05-14	51896838

History

This tab provides the patent's historical information, including Application (PAIR) data, Assignment Data, Fee Status, Patent Term Adjustment (PAIR), Prosecution History records, and INPADOC Legal Status.

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 : 1

Reel/frame	Conveyance Type	Assignor	Execution Date	Assignee (Owner)
027688/0951	ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).	STROBER DAVID	2012-01-26	TOUCHSTREAM TECHNOLOGIES INC
Date recorded				Correspondent
2012-02-10				SAMUEL BORODACH

* The Assignment Data information on the Patent Page is only available for US and CN patents.

SEP Declarations

This tab will be available for standard-essential patents (SEPs) declared at ETSI. The declaration information and corresponding 3GPP specifications can be found here.

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ETSI SEP Declarations: 4 (Essentiality is evaluated based on all TS included in the declaration.)

ISLD-201908-012 (2019-08-14) Low Essentiality HUAWEI

TS Relevancy : Low Claim Scope Support : Low Claim Bases : #1, #15 [View Claim Chart](#)

3GPP Specifications TS 38 304 Release

Spec Title NR; User Equipment (UE) procedures in idle mode and in RRC Inactive state Radio Tech 5G

Tech Body 3GPP RAN2 ETSI Project EVS_codec, New Core(NC), New Radio(NR)

ISLD-201810-041 (2018-10-23) Low Essentiality HUAWEI

ISLD-201203-013 (2012-01-09) Low Essentiality HUAWEI

ISLD-200910-005 (2009-10-15) Low Essentiality HUAWEI

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Litigation

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US Litigations : 6 🔍

▼ **2019-1498** (Filing : 2019-02-01) | **Court of Appeals for the Federal Circuit**

▼ **2019-1497** (Filing : 2019-02-01) (Close : 2020-06-04) | **Court of Appeals for the Federal Circuit**

▼ **2019-1496** (Filing : 2019-02-01) | **Court of Appeals for the Federal Circuit**

^ **2018-1979** (Filing : 2018-05-16) (Close : 2019-03-27) | **Court of Appeals for the Federal Circuit**

<p>Appellant Huawei Technologies Co., Ltd., HiSilicon Technologies Co., Ltd., Huawei Technologies USA, Inc., Huawei Device USA, Inc. [+ Law Firm & Attorneys]</p>	<p>Appellee Samsung Research America, Samsung Electronic Co., LTD., Samsung Electronics America, Inc. [+ Law Firm & Attorneys]</p>	<p>Judge HUGHES, Prost, O'Malley</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------

Patents-in-Suit: 11

#	Patent No.	Title	Legal Status	Appl. Date	Appl. No.	Family ID
1	US8812848B2	Method, system and device for negotiating security capability when term...	Active	2014-01-03	14/147179	40421872
2	US8812848B2	Method and apparatus for negotiating security capability...	Active	2014-01-03	14/147179	40421872

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US000008996003B220150331 1 / 12 90%



1



2



US008996003B2

(12) **United States Patent**
Roberts et al.

(10) **Patent No.:** **US 8,996,003 B2**
(45) **Date of Patent:** ***Mar. 31, 2015**

(54) **METHOD, TERMINAL, AND SYSTEM FOR CELL RESELECTION**

(71) Applicant: **Huawei Technologies Co., Ltd.**, Shenzhen, Guangdong (CN)

(72) Inventors: **Michael Roberts**, Stockholm (SE); **Johan Johansson**, Stockholm (SE); **Boyun Xie**, Xi'an (CN); **Min Huang**, Shanghai (CN)

(73) Assignee: **Huawei Technologies Co., Ltd.**, Shenzhen (CN)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
This patent is subject to a terminal disclaimer.

(21) Appl. No.: **14/135,045**

(58) **Field of Classification Search**
CPC .. H04W 36/0055; H04W 48/18; H04W 36/00
USPC 455/435.3, 436, 449, 452.1, 434, 510, 455/411; 370/252, 449, 398; 345/501
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

8,041,355 B2	10/2011	Roberts et al.
8,185,111 B2	5/2012	Roberts et al.

(Continued)

FOREIGN PATENT DOCUMENTS

AL	2111074 A1	12/2009
CN	1675957 A	9/2005

(Continued)

Assess a patent's quality with [Quality Insights](#).

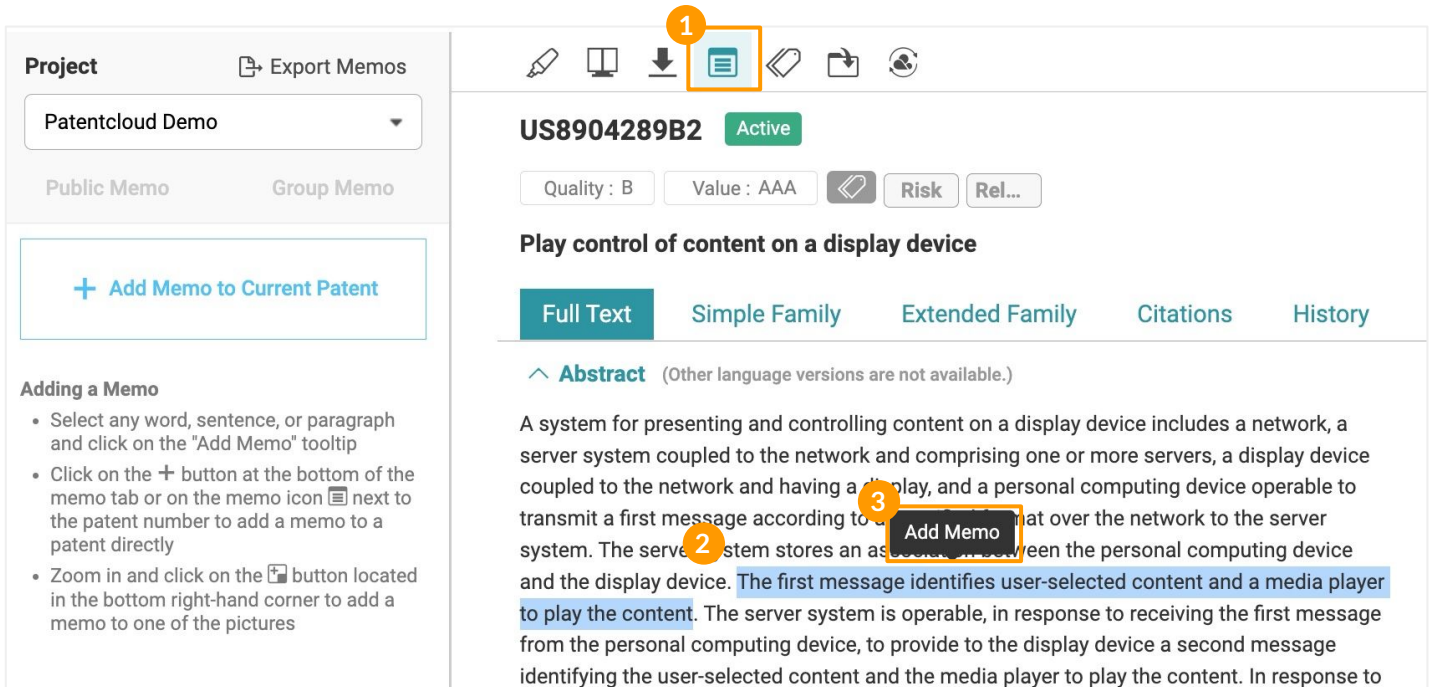
Memo

Patentcloud's Patent Page and *Patent Vault* provide a powerful Memo management feature that allows you to write, edit, and share annotations.

Three types of memos – Paragraph, Patent, or Figure – mark the different elements of a patent document.

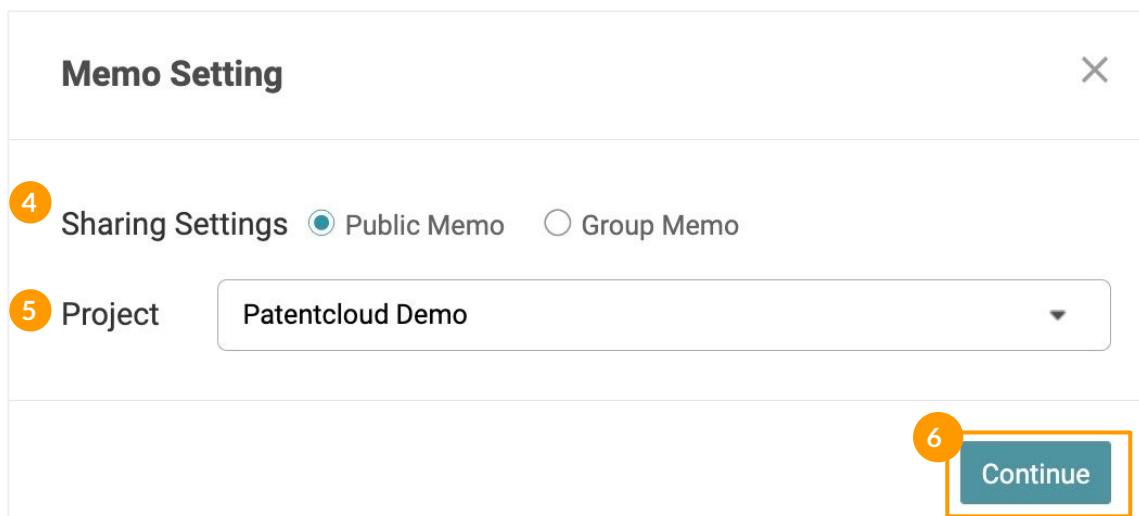
To create a paragraph memo:

1. Click on the Memo icon, and the memo management panel will appear on the left.



The screenshot shows the Patentcloud interface. On the left, the 'Memo' management panel is visible, featuring a 'Project' dropdown menu set to 'Patentcloud Demo', buttons for 'Public Memo' and 'Group Memo', and a '+ Add Memo to Current Patent' button. Below this is a section titled 'Adding a Memo' with three bullet points: 'Select any word, sentence, or paragraph and click on the "Add Memo" tooltip', 'Click on the + button at the bottom of the memo tab or on the memo icon next to the patent number to add a memo to a patent directly', and 'Zoom in and click on the button located in the bottom right-hand corner to add a memo to one of the pictures'. On the right, the patent details for 'US8904289B2' are shown, including 'Active' status, 'Quality : B', 'Value : AAA', and buttons for 'Risk' and 'Rel...'. The patent title is 'Play control of content on a display device'. Below the title are tabs for 'Full Text', 'Simple Family', 'Extended Family', 'Citations', and 'History'. The 'Abstract' section is expanded, showing the text: 'A system for presenting and controlling content on a display device includes a network, a server system coupled to the network and comprising one or more servers, a display device coupled to the network and having a display, and a personal computing device operable to transmit a first message according to... that over the network to the server system. The server system stores an asset between the personal computing device and the display device. The first message identifies user-selected content and a media player to play the content. The server system is operable, in response to receiving the first message from the personal computing device, to provide to the display device a second message identifying the user-selected content and the media player to play the content. In response to...'. The 'Add Memo' button is highlighted with a red circle and the number 3. The memo icon in the top toolbar is highlighted with a red circle and the number 1. The text 'The first message identifies user-selected content and a media player to play the content.' is highlighted with a blue box, and the number 2 is placed over it.

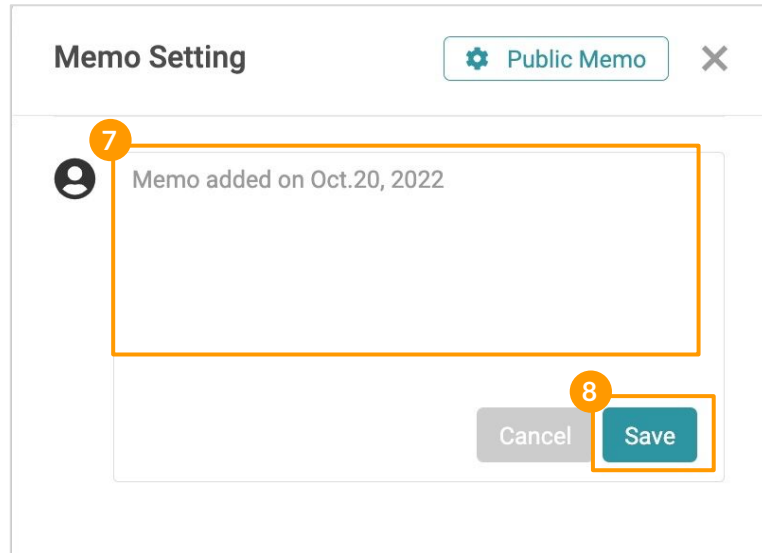
2. Highlight any word, sentence, or paragraph in the patent's text.
3. Click **Add Memo**.
4. The Memo Setting will pop-up, and you can choose if the note should be a Public Memo or a Group Memo.
5. Use the dropdown menu to select a Project to save the memo to.
6. Click **Continue**.



The screenshot shows the 'Memo Setting' dialog box. It has a title bar 'Memo Setting' and a close button (X) in the top right corner. Below the title bar, there are two sections. The first section is 'Sharing Settings' with two radio buttons: 'Public Memo' (selected) and 'Group Memo'. The second section is 'Project' with a dropdown menu set to 'Patentcloud Demo'. At the bottom right, there is a 'Continue' button, which is highlighted with a red circle and the number 6.

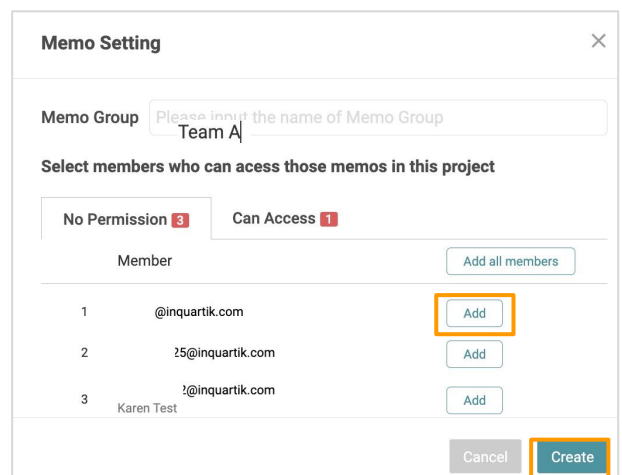
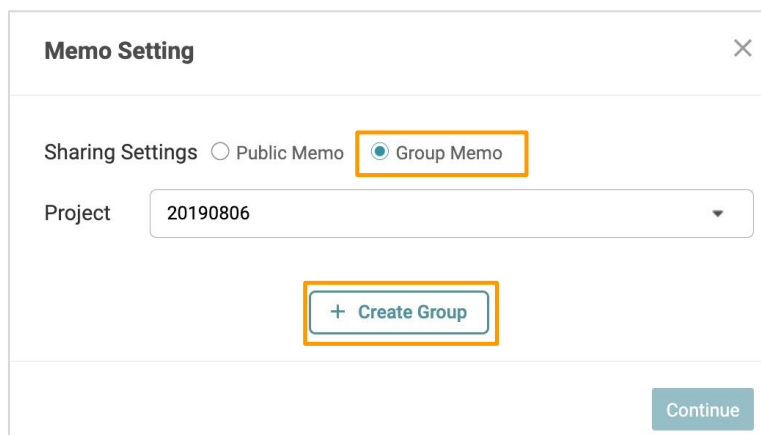
Memo

7. After you have selected **Public Memo**, you can start writing your memo (up to 10,000 characters).
8. Click **Save** when you are done.



Setting up a Group Memo:

If this is the first time creating a Group Memo, you will need to create a group first. Click **+ Create Group** to set up a Group Memo on the Memo Setting window. Next, you will need to name the Group and edit the access settings of the Group.

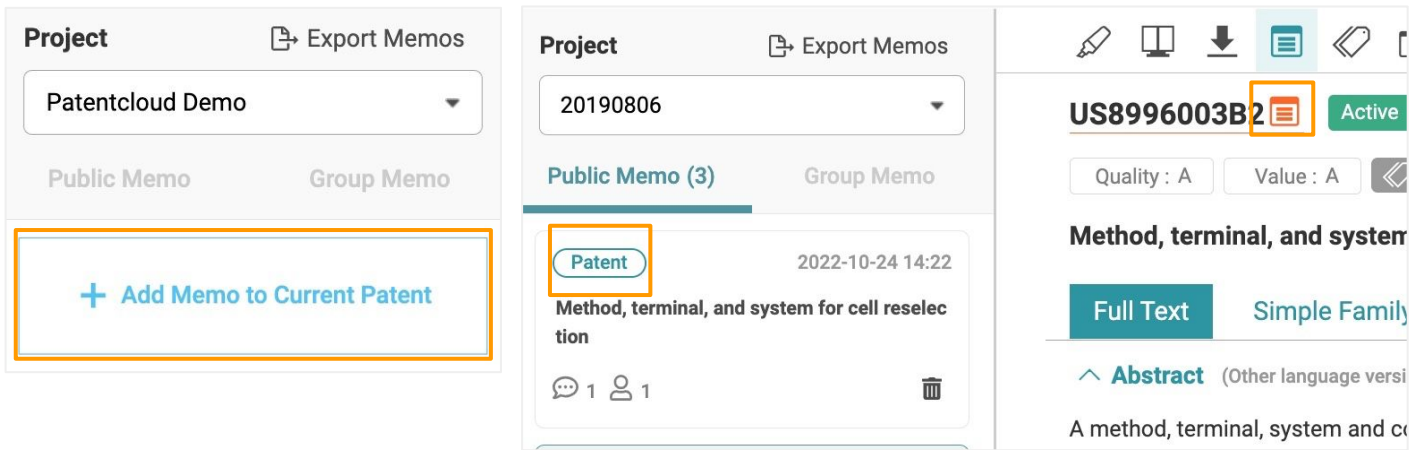


After clicking **Create**, simply start writing your memo (just like with a Public Memo). Click **Save** when you are done. Your new memo will appear in the memo tab on the left-hand side of the window.

Memo

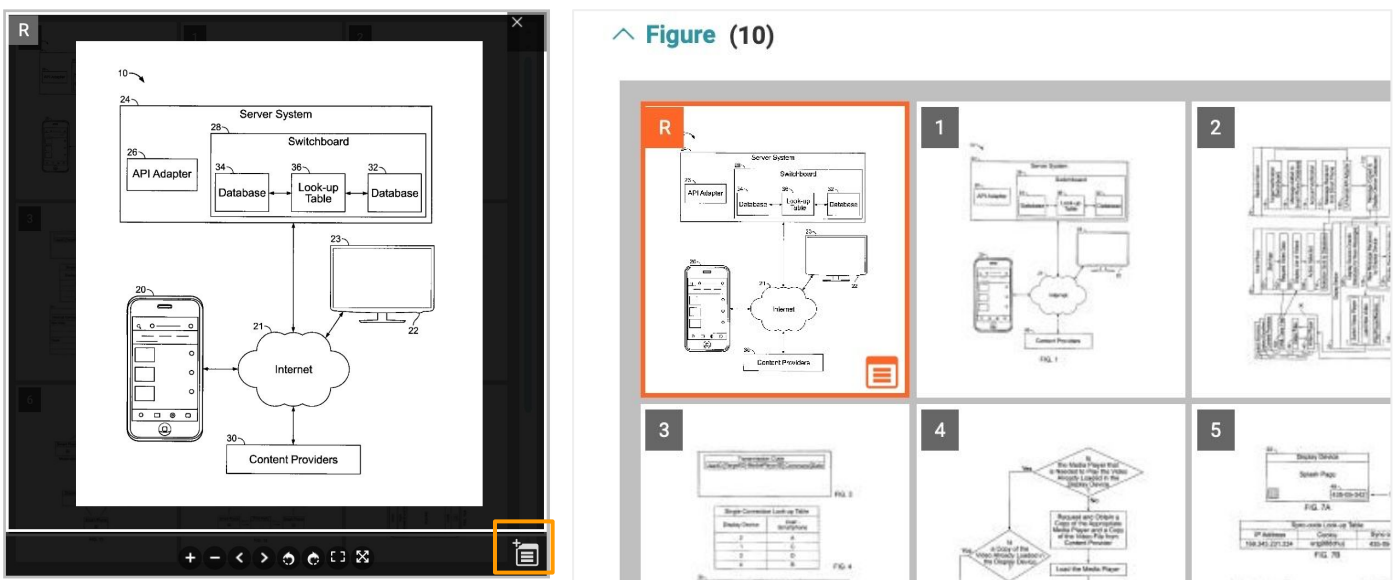
To create a patent memo:

Click on **+Add Memo to Current Patent** on the Memo management panel on the left. Follow [Steps 4, 5, 6, and 7](#) to create the memo. You will see the label “Patent” on the memo management panel and a memo icon next to the patent number on the Full Text page.



To create a figure memo:

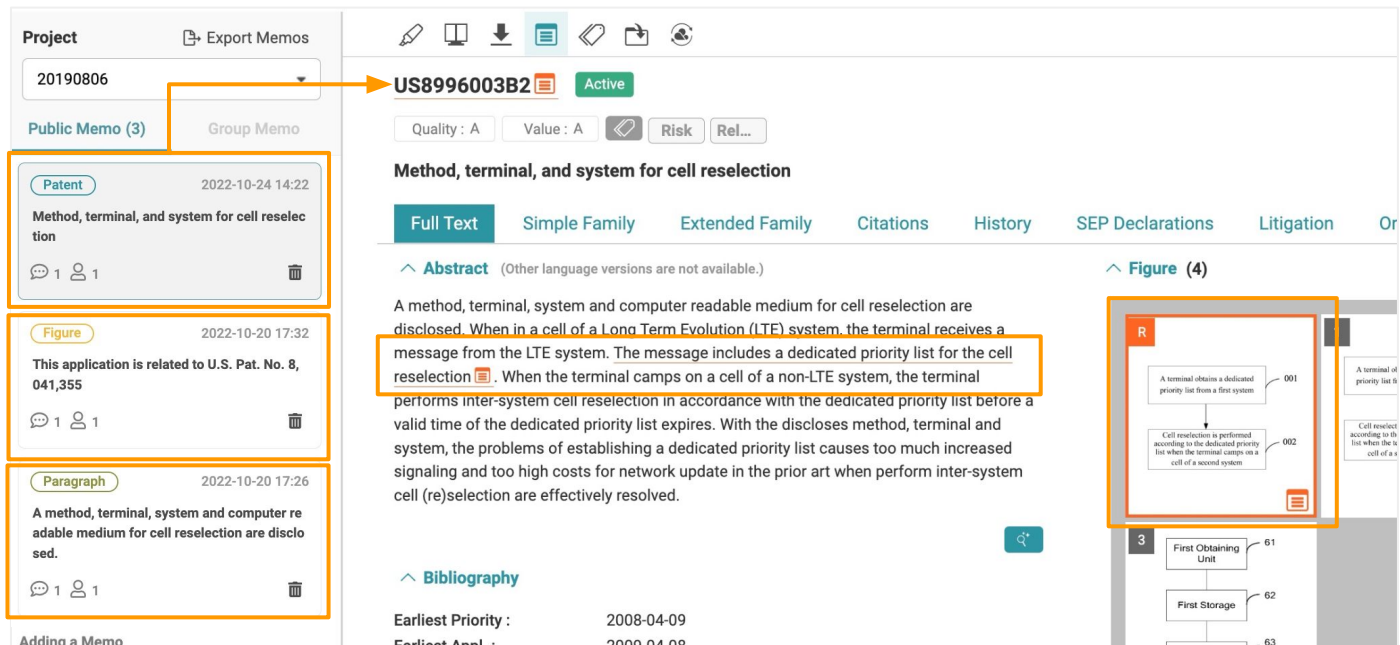
To add a memo to one of the figures, simply click on a figure and click on the + button located in the bottom right corner. Follow [Steps 4, 5, 6, and 7](#) to create the memo. A memo icon will be shown on the figure's bottom right corner if that figure has a memo.



Memo

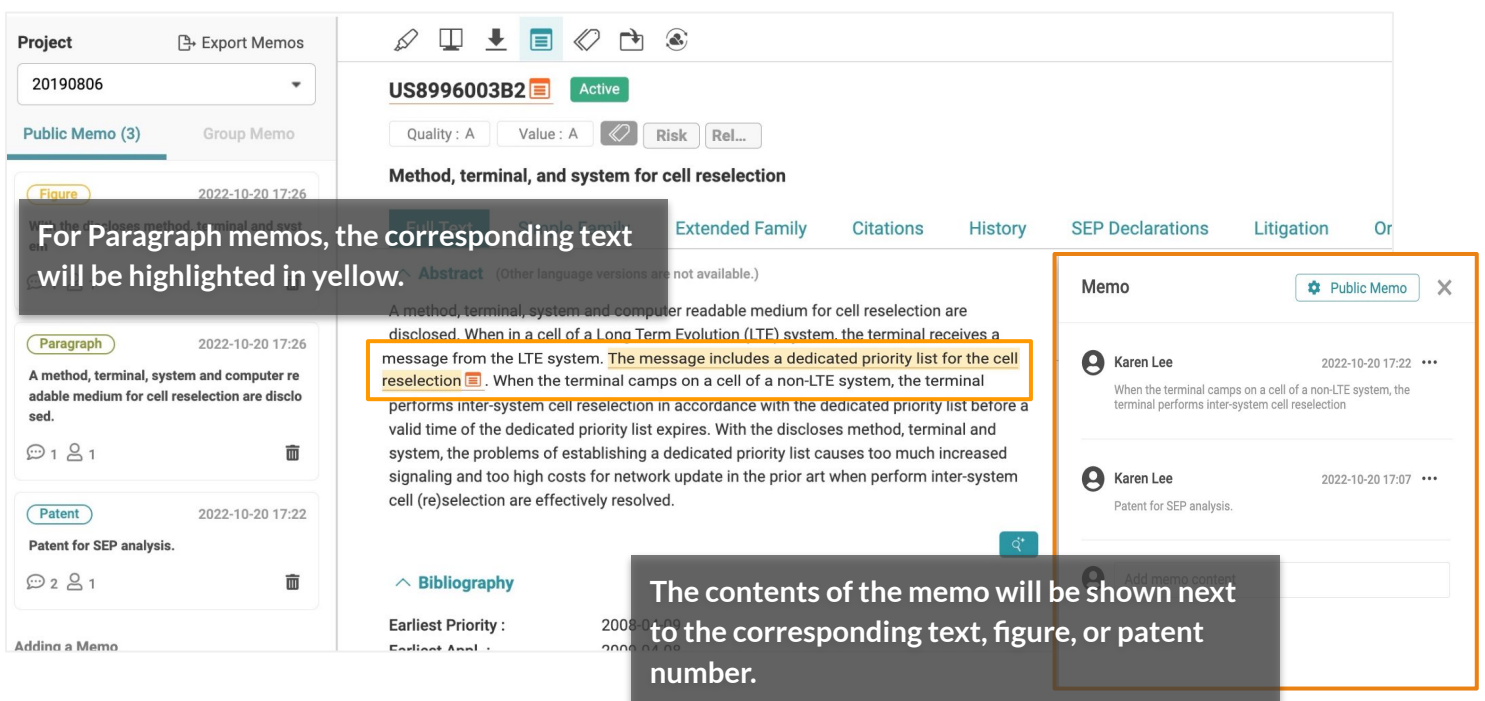
View your Memo(s):

You can see your list of memos on the Memo management panel on the left. Each memo will have a label indicating the type of the memo (Patent, Paragraph, or Figure).



The screenshot displays the Memo management interface. On the left, a list of memos is shown, each with a label (Patent, Figure, Paragraph) and a timestamp. The main panel shows the details for memo US8996003B2, including an abstract and a figure (4). The text in the abstract and the figure are highlighted in yellow.

Click on a memo block on the left panel to locate the memo and read its contents. By selecting a memo, you will be taken to the highlighted patent, paragraph, or figure.

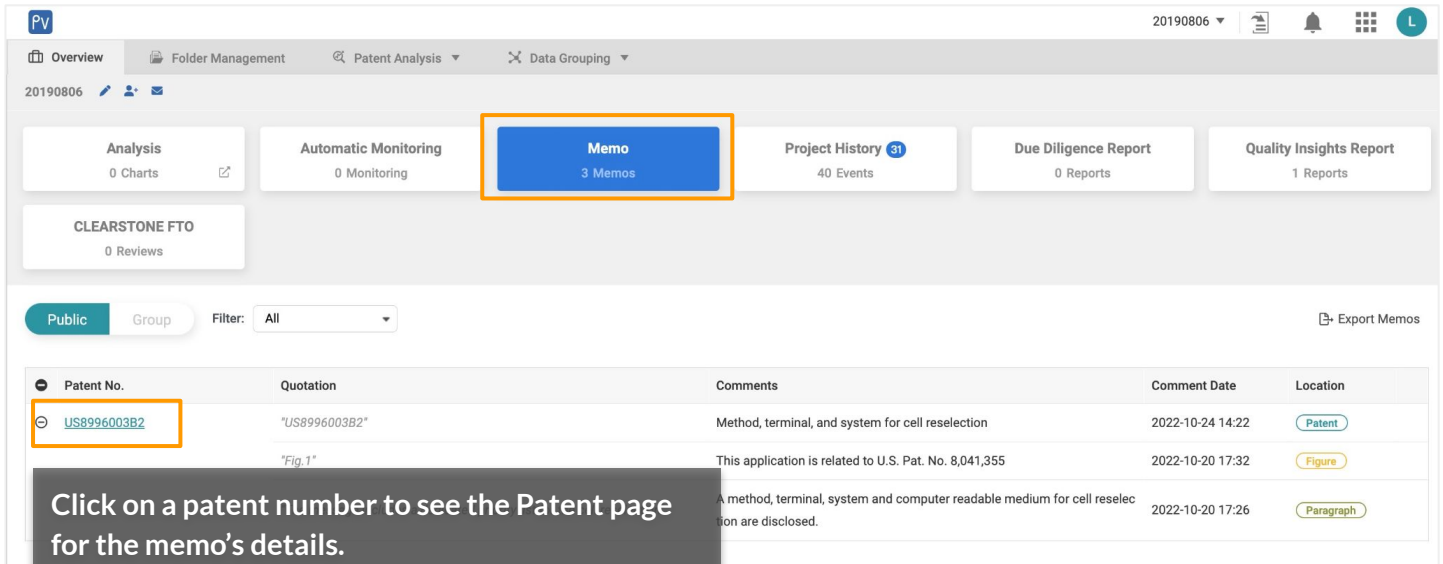


The screenshot displays the Memo management interface with annotations. A callout box explains that for Paragraph memos, the corresponding text will be highlighted in yellow. Another callout box explains that the contents of the memo will be shown next to the corresponding text, figure, or patent number.

Memo

View your Memo(s) in *Patent Vault*:

You will find all your memos saved in your *Patent Vault* Project(s). Click the Memo tab at the top of the Overview page in *Patent Vault* to access the list of memos.



20190806

Overview Folder Management Patent Analysis Data Grouping

Analysis 0 Charts Automatic Monitoring 0 Monitoring **Memo 3 Memos** Project History 40 Events Due Diligence Report 0 Reports Quality Insights Report 1 Reports CLEARSTONE FTO 0 Reviews

Public Group Filter: All Export Memos

Patent No.	Quotation	Comments	Comment Date	Location
US8996003B2	"US8996003B2"	Method, terminal, and system for cell reselection	2022-10-24 14:22	Patent
	"Fig.1"	This application is related to U.S. Pat. No. 8,041,355	2022-10-20 17:32	Figure
		A method, terminal, system and computer readable medium for cell reselection are disclosed.	2022-10-20 17:26	Paragraph

Click on a patent number to see the Patent page for the memo's details.

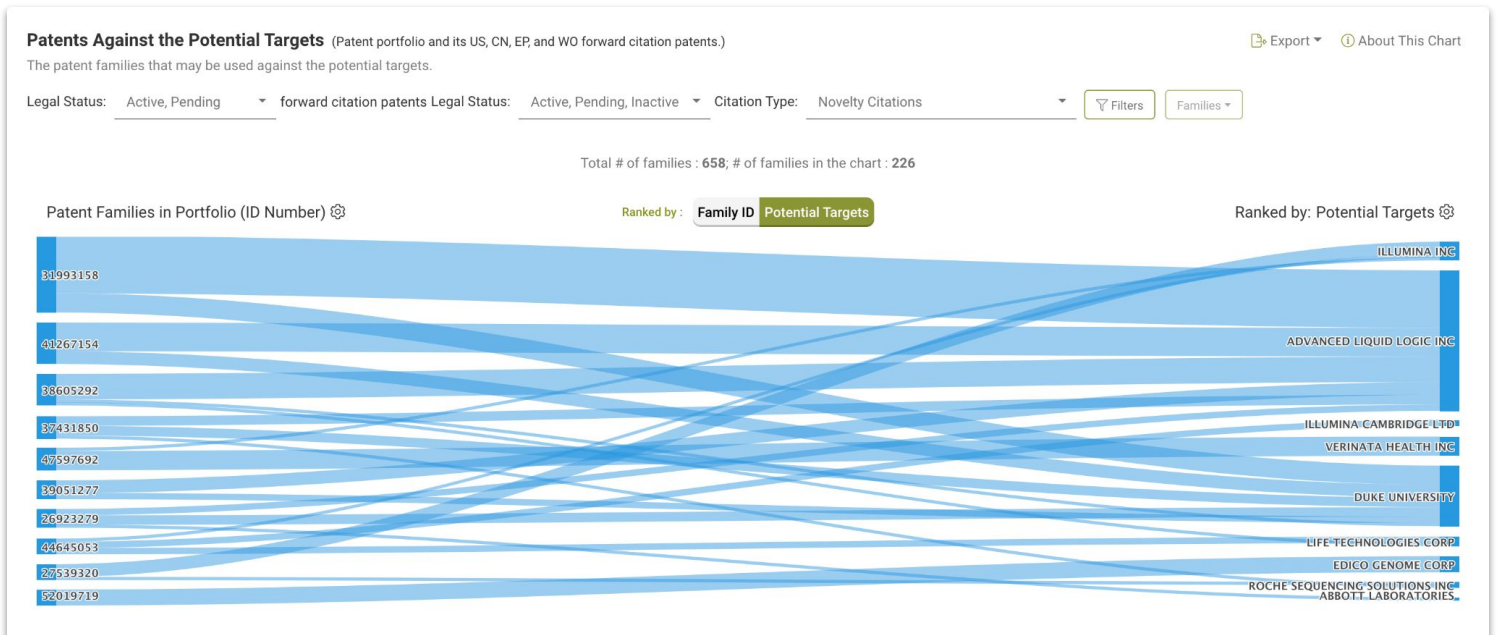
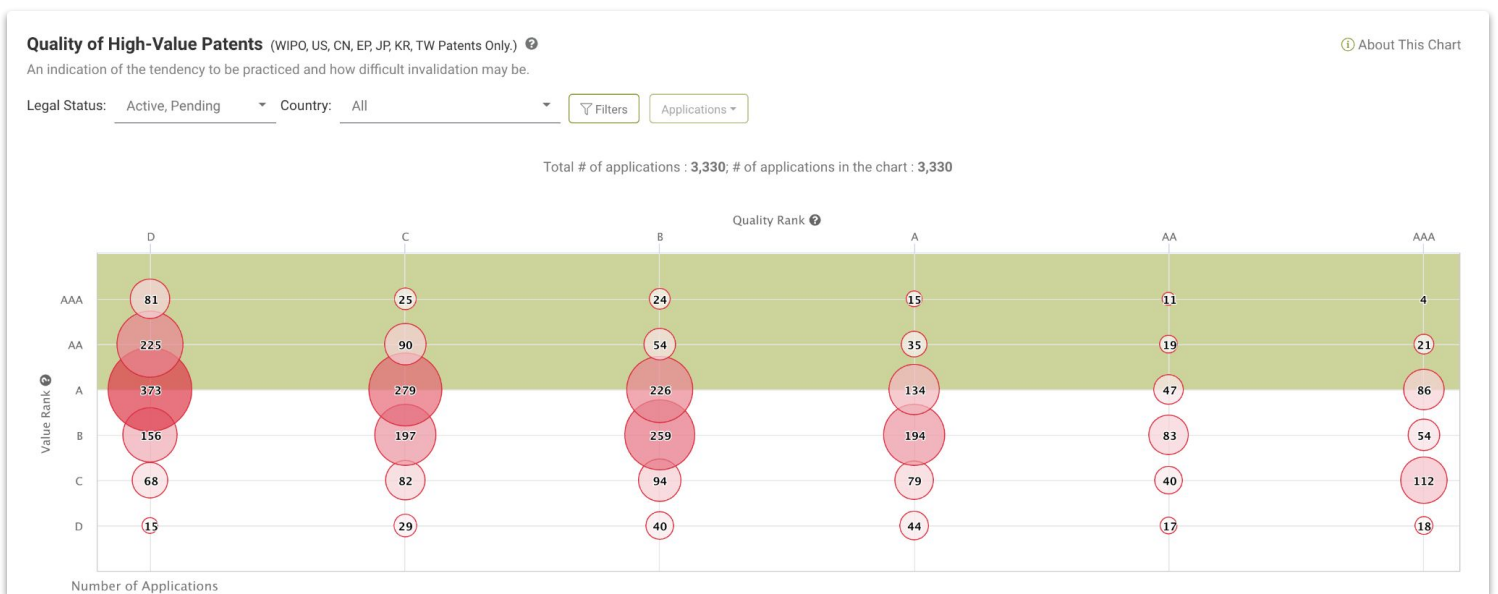
Analyze a Patent Portfolio – Due Diligence



With *Due Diligence*, you can examine a patent portfolio with just one-click

View a patent portfolio's:

- Coverage, legal status, ownership status
- Transaction and litigation history
- Technology fields
- Quality and value assessment
- Potential monetization/litigation targets



Everything you need to know about a patent portfolio and for future utilization!

Decipher Standard Essential Patent Essentiality – SEP OmniLytics



Assess the essentiality of a standard essential patent

For patents declared as standard-essential patents (SEPs) with ETSI, [SEP OmniLytics](#) provides a quick overview of the overall essentiality to decipher those that need further expert analysis.

Claim Chart Summary
Which independent claims are essential? Click the links below to view the corresponding Claim Chart. Evaluation Basis: Version info. in the SEP declaration

EP3952518A1 vs ISLD-202008-017 includes [TS 38 211 \(16.2.0\)](#) | [TS 38 213 \(16.2.0\)](#) | [TS 38 331 \(16.1.0\)](#)

Essentiality Rank ? Medium	TS Relevancy ? High	Claim Scope Support ? Medium
-----------------------------------------------------------------------------	----------------------------------------------------------------------	-------------------------------------------------------------------------------

Claims #	TS Relevancy	Claim Scope Support
Claims # 1 High Medium ^		
Claims #1.01	N/A – Insufficient for evaluation	N/A – Insufficient for evaluation
Claims #1.02	High	Partial
Claims #1.03	High	High
Claims #1.04	High	High
Claims #1.05	High	High
Claims # 13 High Medium v		
Claims # 14 High Medium v		

Claims #1

Apparatus (10) comprising means for:- obtaining (201) a resource configuration for a control channel carrying control data, - obtaining (201) information indicating a transmission period for a repeated transmission of said control data on said control channel; - obtaining (201) a transmission configuration data defining one or more transmission states for said resource configuration; - obtaining (202) monitoring information indicating one or more monitoring occasions associated with said resource configuration; and - monitoring (206 - 211) said control channel for control data on said monitoring occasions by using a mapping scheme between at least one of said one or more transmission states and said monitoring occasions within said transmission period.

SEP OmniLytics' exclusive Automated Claim Chart feature maps a SEP's claims to 3GPP technical specifications, revealing how "essential" a SEP is to its technology.

Check for Validity Issues – Quality Insights



Check for any validity issues in a patent

You can obtain an assessment of a patent's quality using [Quality Insights](#) – a one-click solution to examine a patent's history, claim scope changes, and potential prior art references that can be used to challenge or invalidate the patent.

Simply proceed to *Quality Insights* from a patent page or search for a specific patent on *Quality Insights*' main page.

The screenshot shows a patent page for US11139872B2 with a Quality Insights overlay. The overlay provides a detailed analysis of the patent's validity, including litigation status, claim disclosure, and potential issue levels. Below the analysis, a bibliography table lists key patent information.

Bibliography	
Inventor (Std)	FAXÉR SEBASTIAN(SE), JÖNGREN GEORGE(SE), WERNERSSON NIKLAS(SE), FRENNE MATTIAS(SE), JÄRMYR SIMON(SE) [+Inventor]
Issue Date	2021-10-05
Legal Status	Active Last Updated On 2022-03-04
Estimated Exp. Date	2036-01-11 . 20 years from filing date 2016-01-11 of PCT/SE2016/050009
Earliest Priority	2015-01-14
Appl. No.	17/168616
Appl. Date	2021-02-05
Curr. Assignee	TELEFONAKTIEBOLAGET LM ERICSSON PUBL 2022-03-03
Assignee (Std)	TELEFONAKTIEBOLAGET LM ERICSSON PUBL [+Orig. Assignee]

Thank You!

If you have any questions, please [contact us!](#)




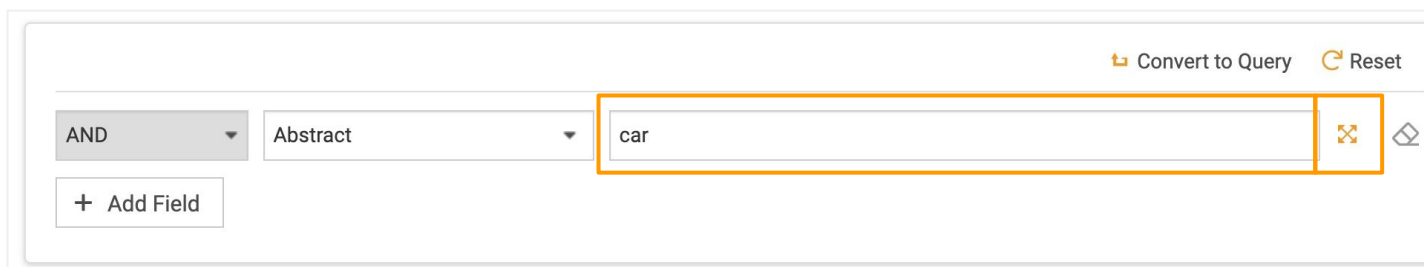
Appendix

- [Keyword Expansion](#)
- [Data Status](#)
- [Quality & Value Definitions](#)
- [Quality & Value Validation](#)

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

To use this feature, please follow the steps below:

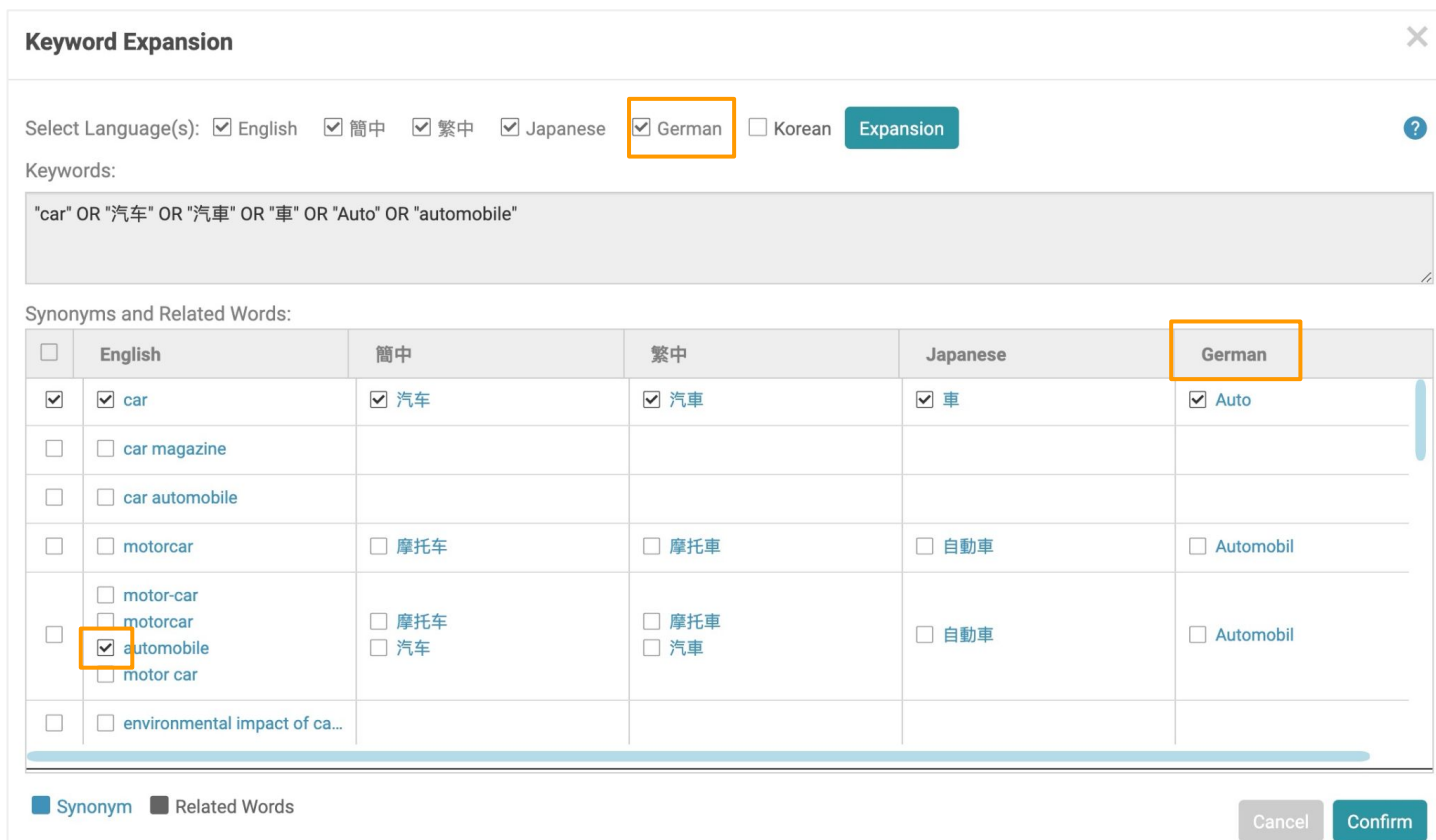
1. In the Quick Search or Advanced Search tab, enter a keyword into the search box next to the drop-down menu, then click on 



The screenshot shows a search interface with a dropdown menu set to 'AND' and a search box containing 'car'. A cross icon is highlighted next to the search box. There are also buttons for 'Convert to Query' and 'Reset'.

The Keyword Expansion pop-up window will appear. You can choose the different languages you want to include in the expansion. Click **Expansion** to apply the languages.

You can then select the related words you want to add to your search query. Click **Confirm** to apply.



The Keyword Expansion window shows the following details:

- Select Language(s):** English, 簡中, 繁中, Japanese, **German** (highlighted), Korean. An **Expansion** button is present.
- Keywords:** "car" OR "汽车" OR "汽車" OR "車" OR "Auto" OR "automobile"
- Synonyms and Related Words:** A table with columns for English, 簡中, 繁中, Japanese, and German.

<input type="checkbox"/>	English	簡中	繁中	Japanese	German
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> car	<input checked="" type="checkbox"/> 汽车	<input checked="" type="checkbox"/> 汽車	<input checked="" type="checkbox"/> 車	<input checked="" type="checkbox"/> Auto
<input type="checkbox"/>	<input type="checkbox"/> car magazine				
<input type="checkbox"/>	<input type="checkbox"/> car automobile				
<input type="checkbox"/>	<input type="checkbox"/> motorcar	<input type="checkbox"/> 摩托车	<input type="checkbox"/> 摩托車	<input type="checkbox"/> 自動車	<input type="checkbox"/> Automobil
<input type="checkbox"/>	<input type="checkbox"/> motor-car <input type="checkbox"/> motorcar <input checked="" type="checkbox"/> automobile <input type="checkbox"/> motor car	<input type="checkbox"/> 摩托车 <input type="checkbox"/> 汽车	<input type="checkbox"/> 摩托車 <input type="checkbox"/> 汽車	<input type="checkbox"/> 自動車	<input type="checkbox"/> Automobil
<input type="checkbox"/>	<input type="checkbox"/> environmental impact of ca...				

Legend: ■ Synonym ■ Related Words

Buttons: Cancel, Confirm

Patent status

Legal status coverage (65 jurisdictions)

CN, JP, US, EP, KR*, WO*, AE, AM, AP, AT*, AU*, BE*, BG, BR*, BY, CA*, CH, CZ*, DE*, DK*, DZ, EC, EG, EM, ES*, FI*, FR*, GB*, GC, GR*, HK*, HN, HU*, ID, IL*, IN, IT*, KE, MC*, MN, MO, MT, MW, MX*, MY, NL*, NO*, NZ*, OA, PA, PH*, PL*, PT*, RU*, SA, SE*, SG, SM, TH, TJ, TW*, UA, VN, ZM, ZW

- From local patent offices (11)
- * From INPADOC (31)

Assignee Status

Current assignee (24 jurisdictions)

CN, JP, US, EP, WO, AT, AU, BE, BR, CH, DE, ES, FI, FR, GB, HK, HU, IL, MX, NL, NO, NZ, PL, PT, TW

- From local patent offices (5)

How Patentcloud considers Current Owner data

With each different jurisdiction, Current Owner information is collected and determined as follows:

US - Data is collected from the USPTO's assignment database, then consolidated with Original Assignee data for different conveyance types (e.g., transferring, merging, and change of name).

CN - Original Assignee data is collected and consolidated from the CNIPA's legal status database in consideration of transfers, mergers, and change of name events.

JP / TW - Current Assignee data is collected and consolidated from JPO/TPO.

EP and others - Data is collected from INPADOC events, then consolidated with transfers, mergers, and change of name information.

For more details on Patentcloud's data coverage, legal status, and patent transaction data, please visit the [Timely Data Completeness](#) page.

Gain a macro view of a portfolio's quality and value, and benchmark against the top patent owners in the technical field.

First, what are Patentcloud's Patent Quality and Value Rankings?

Patent Quality Rankings

The Quality Ranking indicator indicates the relative eventuality of prior art references being found for a patent, which can threaten its validity.

The indicator considers the following factors (based on pre-grant information):

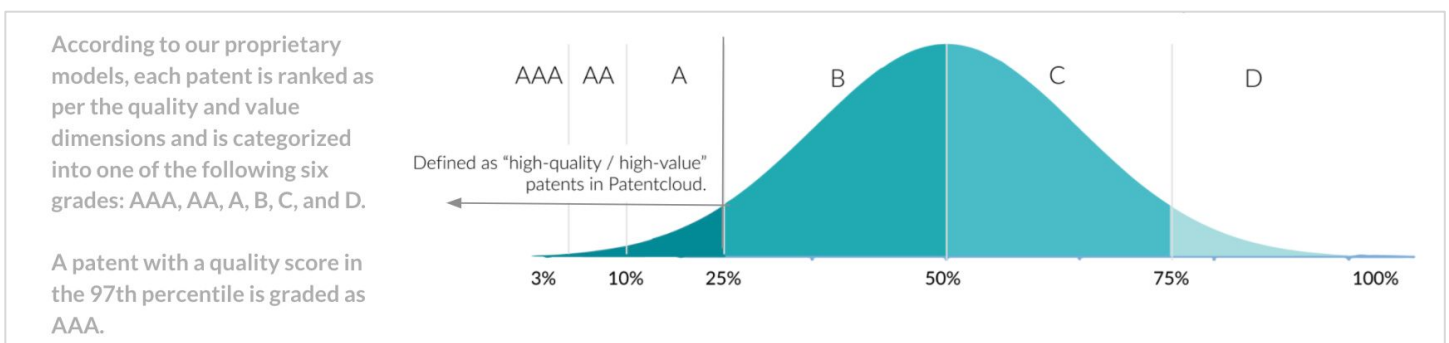
- Qualifications and profiles of the attorneys and the examiners
- Potential prior art references
- Structure of independent and dependent claims

Patent Value Rankings

The Value Ranking indicator reflects the relative tendency of a patent to be practiced or monetized after its issuance.

The indicator considers the following factors (based on pre-grant information):

- Qualification and profiles of the inventors and applicants
- Stage of technology lifecycle
- Citations
- Pre-grant transactions



Patents in the top 25% of the Quality / Value Rankings are considered high-quality or high-value patents.

*Note: Patent Quality and Value Rankings do not apply to design patents.

Read more in the [Patent Quality and Value Rankings](#) white paper.

Validating the Patent Quality and Value Rankings

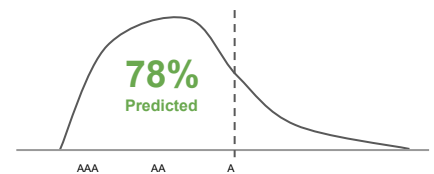
To continuously track the significance of the correlation between the models and the events they are trying to predict, we built two monitoring systems—one for patent infringement cases to validate value, the other for abandoned USPTO patents to validate quality.

Validating Value Rankings – Patent infringement cases

We used 11,356 U.S. patents involved in **infringement cases** in the past 2 years to validate the value model.

While not knowing that these patents are involved in infringement cases, the Patent Value Ranking model rates 78.25% of these patents as those with an above A value ranking, proving the model’s ability to predict potential monetization activities.

Total amount	>A	AAA	AA	A	B	C	D	p-value
11,356	78.25%	27.86%	26.22%	24.17%	14.05%	5.29%	2.4%	<0.001



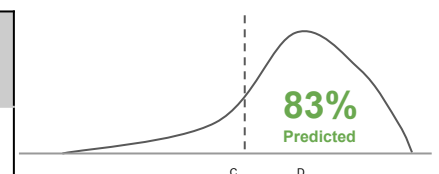
Note: Infringement case data was collected between 2000-07-19 ~ 2022-07-19

Validating Quality Rankings – Abandoned USPTO patent applications

We used 11,356 U.S. patent applications abandoned during prosecution in the past 2 years to validate the quality model.

While not knowing that these applications were abandoned, the Patent Quality Ranking model rates 83.68% of these patents as those with a below C quality ranking, proving the model’s ability to predict potential abandonment and invalidity events.

AAA	AA	A	B	C	D	<C	p-value
0.22%	0.98%	3.68%	11.44%	22.57%	61.11%	83.68%	<0.001



Note: Data for U.S. patent applications abandoned during prosecution was collected between 2000-07-19 ~ 2022-07-19

Read more in our [Patent Quality and Value Rankings](#) white paper.