



入門指南

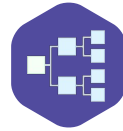
目錄

- 開始使用 Quality insights
- *Quality Insights* 總覽
- *Quality Insights* 各分頁
 - 歷程
 - 請求項分析
 - 請求項剖析
 - 同族前案
 - 前案調查
 - 相似前案
 - 申請歷程文件檢索
- 前案解析
- 更多專利管理利器
- *Quality Insights* 快速上手導覽影片

專利現況一鍵立即評估



提供專利家族正確的法律狀態



檢視審查、再審與複審歷程資料

評估審查歷程對請求項的影響，識別真實的專利的請求項範圍，揭露潛在問題



請求項分析: 經由專利本身資料辨別專利的請求項範圍

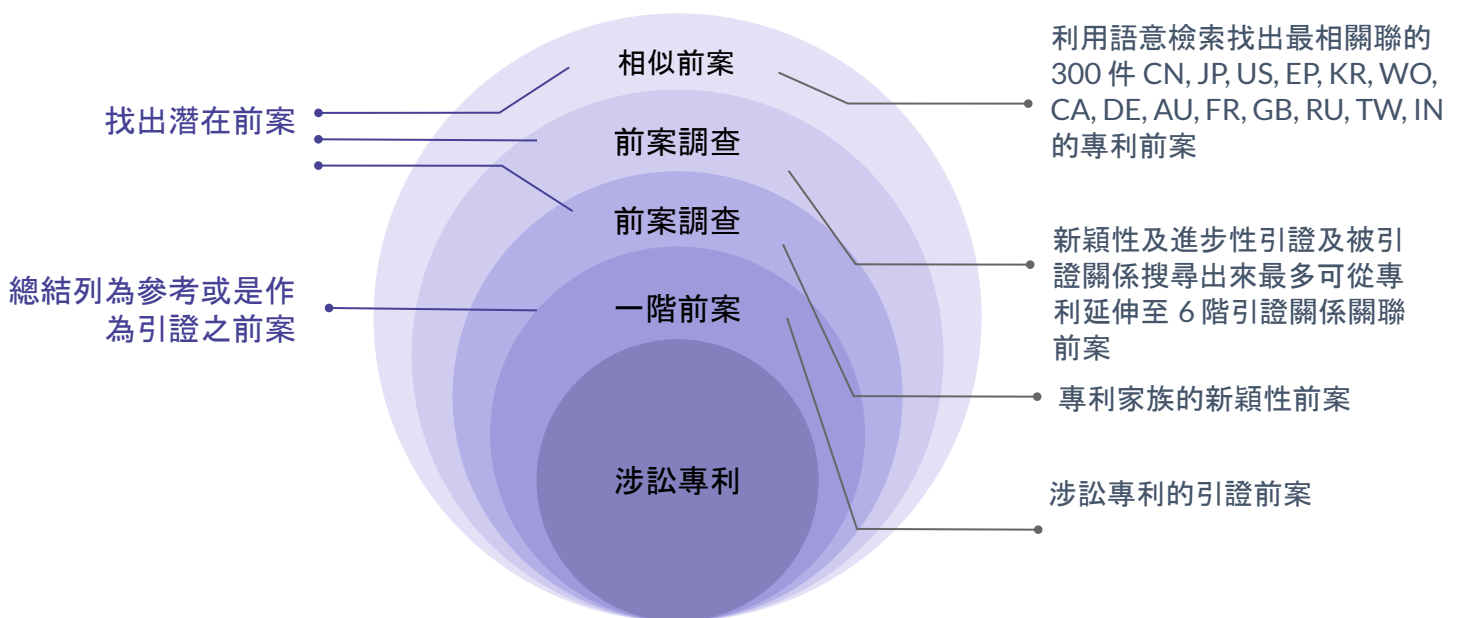


請求項剖析: 經由前案揭露潛在問題

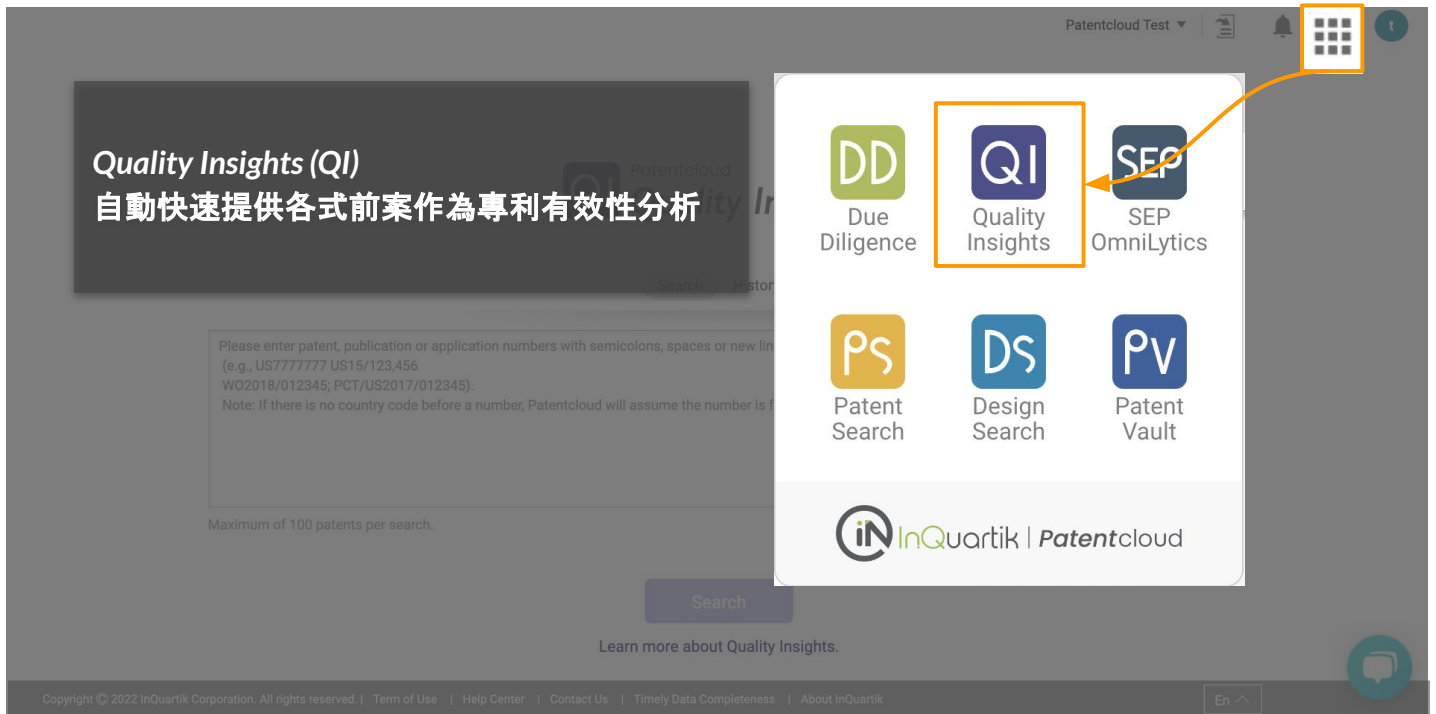
Quality Insights – 自動專利前案搜索有效性分析

Quality Insights 提供全方面前案搜索和分析功能作為專利無效舉發評估參考

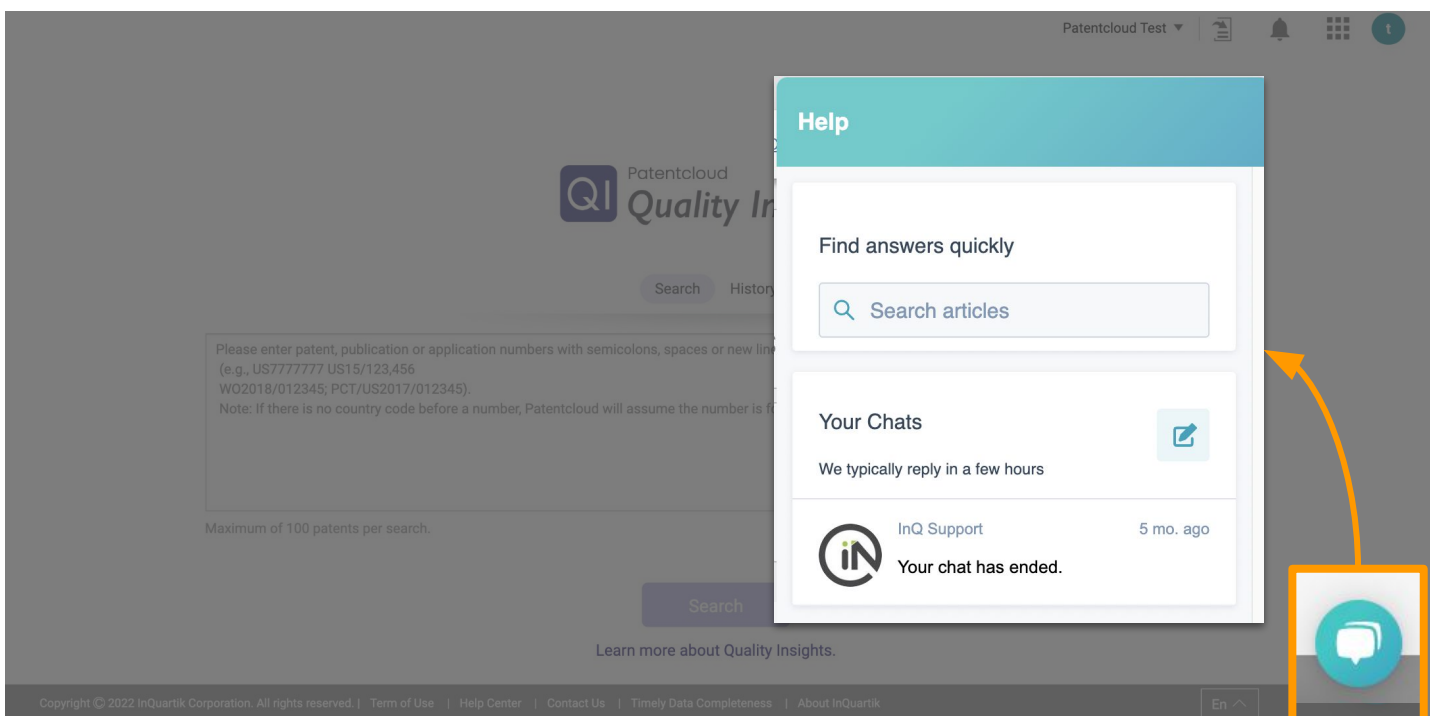
若發現適格前案，啟動多方複審(IPR)可能逆轉審查結果



點擊右上九宮格並選擇產品 *Quality Insights (QI)*



需要幫助? 隨時聯繫我們!



1. 輸入需分析的專利號

Patentcloud
Quality Insights

Search History

US11139872
US10425817
US8102805
US9532355
US7151430
US7957770
US9509273
US9853621
US9705400

Maximum of 100 patents per search.

至多可輸入100個專利號並按“檢索”

Search

Learn more about Quality Insights.

2. 在檢索結果頁選擇您想檢視的*Quality Insights* 報告

Search > Search Summary

Data Last Updated on 2022-05-26

You have entered 15 patent number(s). After performing searches and deduplication, 0 patent number(s) were not available. Maximum of 100 patents per search.

[File Wrapper not released?](#)

Search Result for U.S. Patent(s)

按“檢視”進入欲檢視專利的*Quality Insights* 報告

1. US7151430B2 (US20050195063A1) Subscribed			
Appl. No.	10/919130	Title	Method of and inductor layout for reduced VCO coupling
# of Rejections	1 Non-final 0 Final	Pub./Issue Date	2006-12-19
Related Proceedings	ITC: -337-TA-1245	Original Assignee	Telefonaktiebolaget LM Ericsson (publ)
		Current Patent Owner	TELEFONAKTIEBOLAGET LM ERICSSON PUBL
2. US8102805B2 (US20100067459A1) Subscribed			
Appl. No.	12/447522	Title	HARQ in spatial multiplexing MIMO system
# of Rejections	0 Non-final 0 Final 1 RCE	Pub./Issue Date	2012-01-24
Related Proceedings	ITC: -337-TA-953	Original Assignee	Telefonaktiebolaget LM Ericsson (publ)
		Current Patent Owner	TELEFONAKTIEBOLAGET LM ERICSSON PUBL
3. US7957770B2 (US20080161065A1) Subscribed			
Appl. No.	11/955300	Title	Mobile communication terminal for providing tactile interface
# of Rejections	1 Non-final 1 Final 1 RCE	Pub./Issue Date	2011-06-07
Related Proceedings	N/A	Original Assignee	LG Electronics Inc.
		Current Patent Owner	TELEFONAKTIEBOLAGET LM ERICSSON PUBL

Note: *Quality Insights* is only applicable for U.S. Utility patents issued after 2003.

Quality Insights 總覽

快速掌握專利有效性的重要資訊

快速概覽專利現況與有效性的潛在問題

Active

US7151430B2 [↗](#)

Method of and inductor layout for reduced VCO coupling

Overview

History

Claim Analysis

Claim Insights

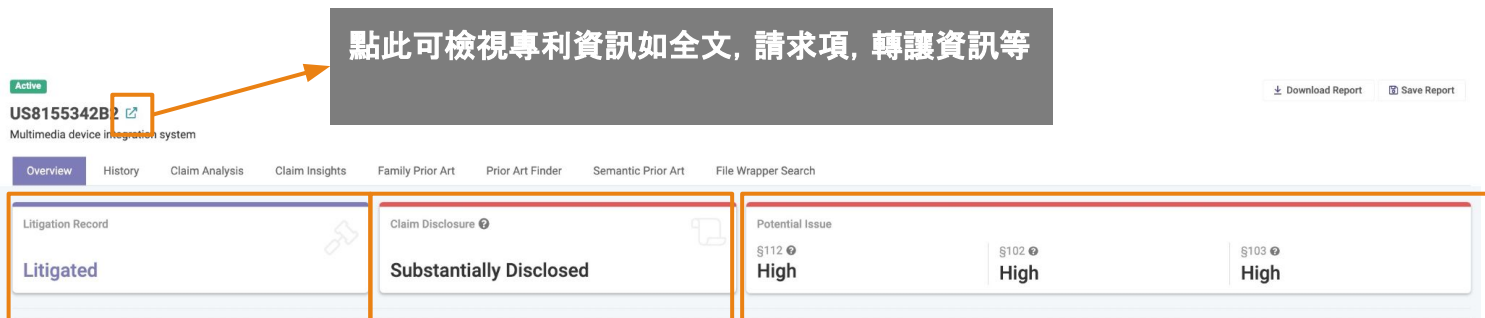
Family Prior Art

Prior Art Finder

Semantic Prior Art

File Wrapper Search

- **書目資料**
- **事件歷程 – [歷程](#)**
- **請求項揭露程度 – [請求項剖析](#)**
 - 檢視專利的請求項被前案揭露程度
- **潛在問題**
 - §112 - **潛在 §112 問題** – [請求項分析](#)
 - §102 - **潛在 §102 前案** – [同族前案](#), [前案調查](#)
 - §103 - **潛在§103 前案** – [同族前案](#), [前案調查](#), [相似前案](#)
- **同族當前狀態**



點此可檢視專利資訊如全文, 請求項, 轉讓資訊等

Active
US8155342B2
Multimedia device inspection system

Download Report Save Report

Overview History Claim Analysis Claim Insights Family Prior Art Prior Art Finder Semantic Prior Art File Wrapper Search

Litigation Record Litigated	Claim Disclosure Substantially Disclosed	Potential Issue §112 High	§102 High	§103 High
---------------------------------------	----------------------------------------------------	----------------------------------------	---------------------	---------------------

在總覽頁頂部事件歷程提供此專利的力, 請求項揭露程度, 與潛在問題的概覽。

事件歷程

本區塊顯示該專利是否涉及任何美國訴訟或遭遇有效性挑戰。涵蓋的範圍包括地方法院、聯邦巡迴上訴法院 (CAFC)、最高法院、國際貿易委員會 (ITC)、專利審判暨上訴委員會 (PTAB)。

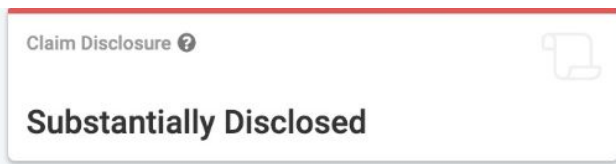
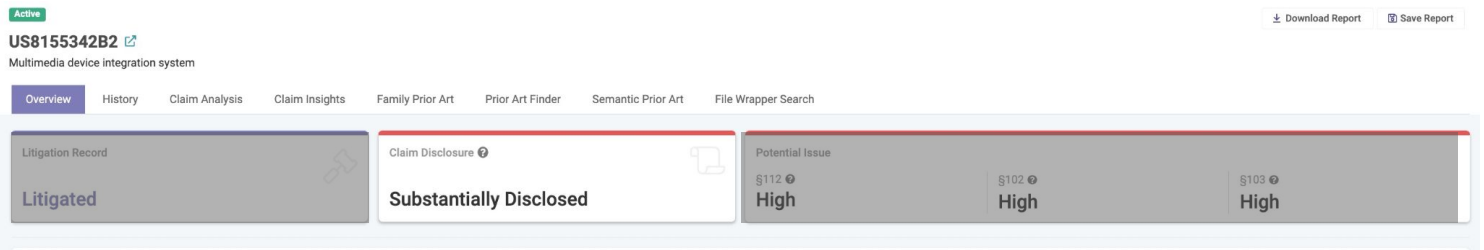
請求項揭露程度

依據專利審查/複審階段的前案, 針對技術特徵的關鍵字詞計算每個請求項被揭露的比例。

潛在問題

根據說明書對請求項的解釋程度, 及潛在前案列表的數量, 快速掌握專利可能遭遇的有效性問題。

顯示請求項中的技術特徵在審查/複審歷程中被引證前案揭露的程度。



有三種揭露程度指標：

紅色: 高度揭露 - 請求項中, 80%以上的技術特徵被揭露

黃色: 部分揭露 - 請求項中, 1% ~ 79% 的技術特徵被揭露

綠色: 未揭露 - 0%揭露

向下捲動至「請求項揭露程度」圖表, 可以查看每個獨立項各自的被揭露的狀況。

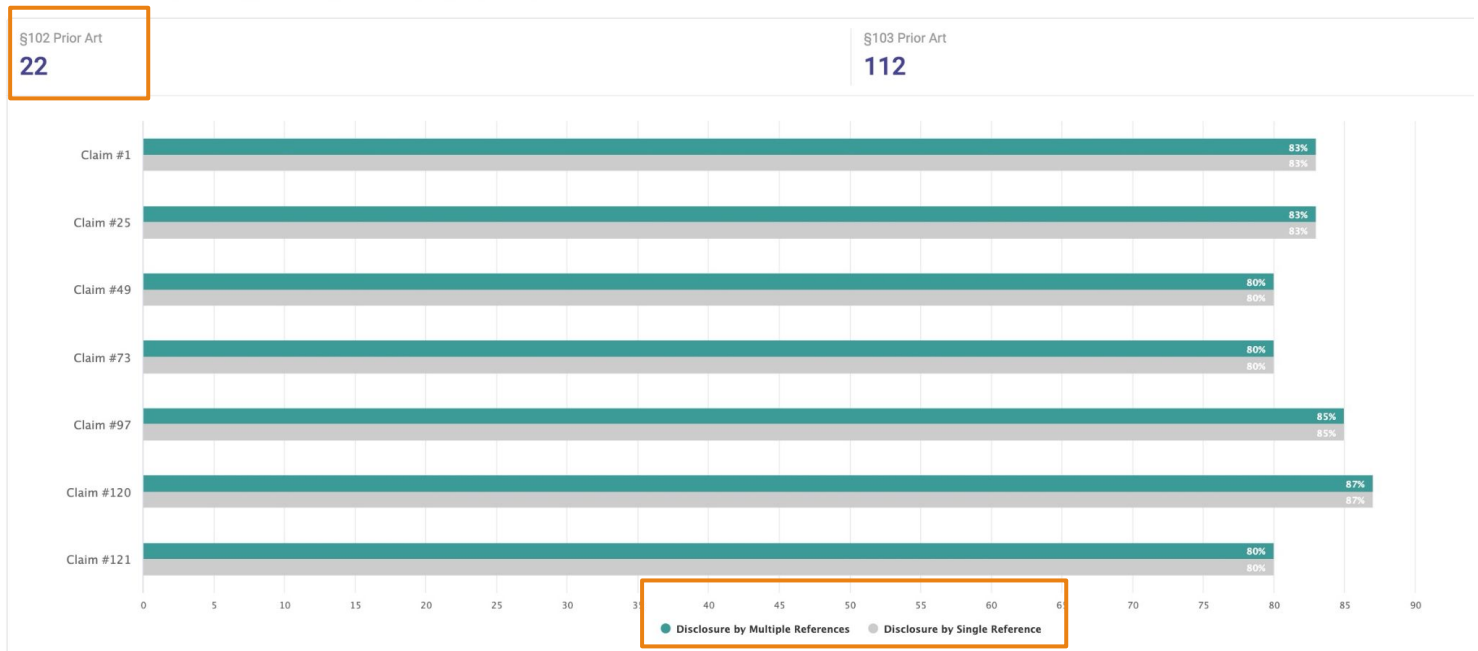
您同時可以查看在審查/複審歷程中, 共有多少篇§102/§102前案被用於揭露這些請求項。

該圖表中的兩種不同的披露率(%)反映了該專利被披露的程度, 即：

- 1) 單一前案揭露比例: 顯示單一前案最多揭露該請求項多少比例的技術特徵或
- 2) 多個前案揭露比例: 顯示所有前案共揭露該請求項多少比例的技術特徵

Status of Disclosed Claims Substantially Disclosed

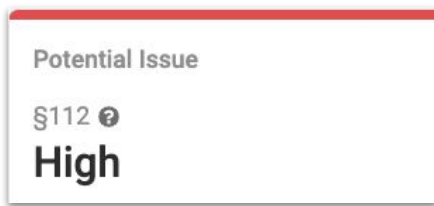
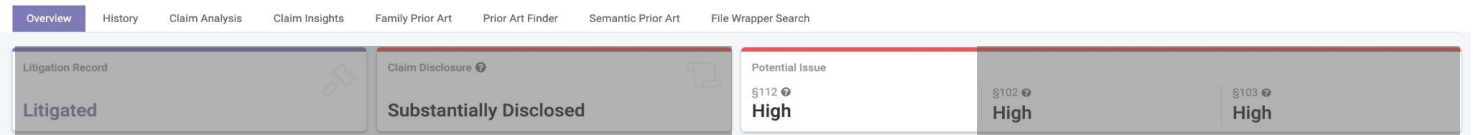
How this patent's claims have been disclosed by prior art during prosecution and post-grant proceedings.



The percentages (%) of disclosure are calculated by analyzing the claim charts in the file wrappers. More details in [Claim Insights](#).

全面的分析功能在 [前案剖析](#) 頁面。

顯示說明書對請求項支持的明確程度，未對應到說明書的請求項用語越多，則表示權利範圍的解釋越模糊。



根據指標的百分比，可能的結果有：

紅色：高 - 高度模糊，超過5%的請求項用語未對應到說明書

黃色：中 - 少於 5% 未對應 請求項用語未對應到說明書

綠色：低 - 所有的請求項用語都對應到 (0%未找到)

向下滾動到“請求項分析”圖表區塊查看更多此指標相關資訊。

在這裡，您可以查看所有未對應到說明書的請求項用語數量，以及字詞在每個獨立請求項中的分佈。您也可以在此「請求項分析」功能中，查看每個請求項用語對應的說明書段落。

Claim Analysis

To identify potential §112 issues.

6 Claim Term(s)

not found in the specification

Independent Claims	Counts	Claims term(s) not found in the specification
Claim 1	3	obtains, instructs, subsequent
Claim 25	3	obtains, instructs, subsequent
Claim 49	3	obtains, instructs, subsequent
Claim 73	3	obtains, instructs, subsequent
Claim 97	2	incompatible, subsequent
Claim 120	3	instructs, incompatible, subsequent
Claim 121	2	entertainment, causing

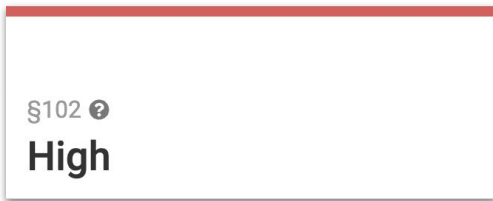
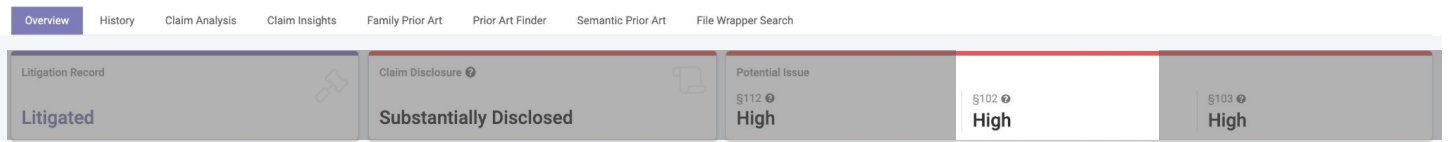
View other claim terms supported by the specification in [Claim Analysis](#).

要查看獨立請求項或被對應到的說明書的請求項，請查看[請求項分析](#)了解更多細節。

此一指標反映了Quality Insights所認定的適格專利引證的數量，這些專利以前在審查和再審/複審過程中沒有被考慮過，並且非常有可能成為潛在的§102前案。

這個指標是由下以的數量計算出的：

- 被審查委員引用的家族成員的 §102前案
(詳見 [同族前案](#) 頁以獲得§102引證前案的完整列表)
- 在第2階和第3階前案清單中的 §102前案
(詳見 [前案調查](#) 頁查找最多至6階的前案)



潛在問題 – §102有以下三種指標：

紅色：高 - 3篇以上

黃色：中 - 1-2 篇

綠色：低 - 無

在 "總覽" 頁面上找到的潛在前案列表包括兩個清單--潛在的§102和§103前案。通過點擊列表頂部的數字在這兩個列表之間進行切換。

Potential §102 and §103 Prior Art
Identify applicable references not previously considered in prosecution and post-grant proceedings as potential prior art.
[Discover prior art's similarity with claim chart format in seconds!](#)

Potential §102 Prior Art: **76** | Potential §103 Prior Art: **147**

KEEP Mode	#	Patent No.	Title	Legal Status	Appl. Date	Assignee (Std)	Applicability
<input type="checkbox"/>	1	US20070149115A1	Content Delivery System and Method	PGPub - Granted	2007-03-02	AFFINITY LABS LLC	(Pre-AIA) § 102(e)(1)
<input type="checkbox"/>	2	WO2001/067266A1	VEHICLE SOUND SYSTEM	Abandoned	2001-03-01	PHATNOISE INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)
<input type="checkbox"/>	3	US20090017866A1	Method for Managing Media	PGPub - Granted	2008-01-16	AFFINITY LABS LLC	(Pre-AIA) § 102(e)(1)
<input type="checkbox"/>	4	US20050049002A1	Audio system and method	PGPub - Granted	2004-09-23	IMES KEVIN R	(Pre-AIA) § 102(e)(1)
<input type="checkbox"/>	5	US6163079A	Structure of electric equipment for vehicle	Expired	1998-07-23	HARNES SYSTEM TECHN...	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
<input type="checkbox"/>	6	US693615B2	Portable computing device-integrated appliance	Active	2002-11-15	MICROSOFT CORP	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>	7	US6937732B2	AUDIO SYSTEM AND ITS CONTENTS REPRODUCTION METHOD, AUDIO APPARATUS FOR A VEHICLE AND ITS CONTENTS REPRODUCTION METHOD, ...	Active	2001-04-04	MAZDA MOTOR CORP	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>	8	US20070178830A1	Storage and playback device and method for using the same	PGPub - Granted	2007-03-13	UNIVERSAL ELECTRONICS L.	(Pre-AIA) § 102(e)(1)
<input type="checkbox"/>	9	US6396164B1	Method and apparatus for integrating controls	Abandoned	1999-10-20	MOTOROLA INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(2)
<input type="checkbox"/>	10	US20160330504A1	VEHICLE CONSOLE CAPABLE OF WIRELESS RECEPTION AND TRANSMISSION OF AUDIO AND VIDEO DATA	PGPub - Granted	2016-04-19	VOXX INTERNATIONAL CORP	(Pre-AIA) § 102(e)(1)

這份清單包括專利的引證/被引證的§102前案的§102前案。其中最多有3階引證來自專利本身的引用。§102出處包括在審查委員的駁回中引用的引文(在訴訟過程中可以找到)以及在複審和PTAB中引用的引文。

完整清單請參閱 [前案調查](#) 頁。

潛在的§103前案指標反映了Quality Insights查找出的適格專利引證，這些專利以前在審查和再審/複審過程中沒有被考慮過，並且非常有可能成為潛在的§103前案。

這個指標是由下以的數量計算出：

- 審查委員引用過的家庭成員的 §103前案
(完整的 §103引證前案, 請詳見 [同族前案頁](#))
- 第2階和第3階前案清單中的非 §102前案
(在 [前案調查](#) 頁可以查找最多至6階前案)
- 高相關聯的相似前案
(在 [相似前案頁](#)可檢視詳細清單)

Overview History Claim Analysis Claim Insights Family Prior Art Prior Art Finder Semantic Prior Art File Wrapper Search

Litigation Record	Claim Disclosure	Potential Issue	§102	§103
Litigated	Substantially Disclosed	§112 High	High	High

§103 High

有以下三種指標及定義：

紅色：高 - 10篇以上

黃色：中 - 1-9 篇

綠色：低 - 無

你可以在最後一欄查看中找到的每個被列的潛在前案的“前案適格性”依據。你也可以在檢視模式之間進行切換，進行比對，或匯出列表。

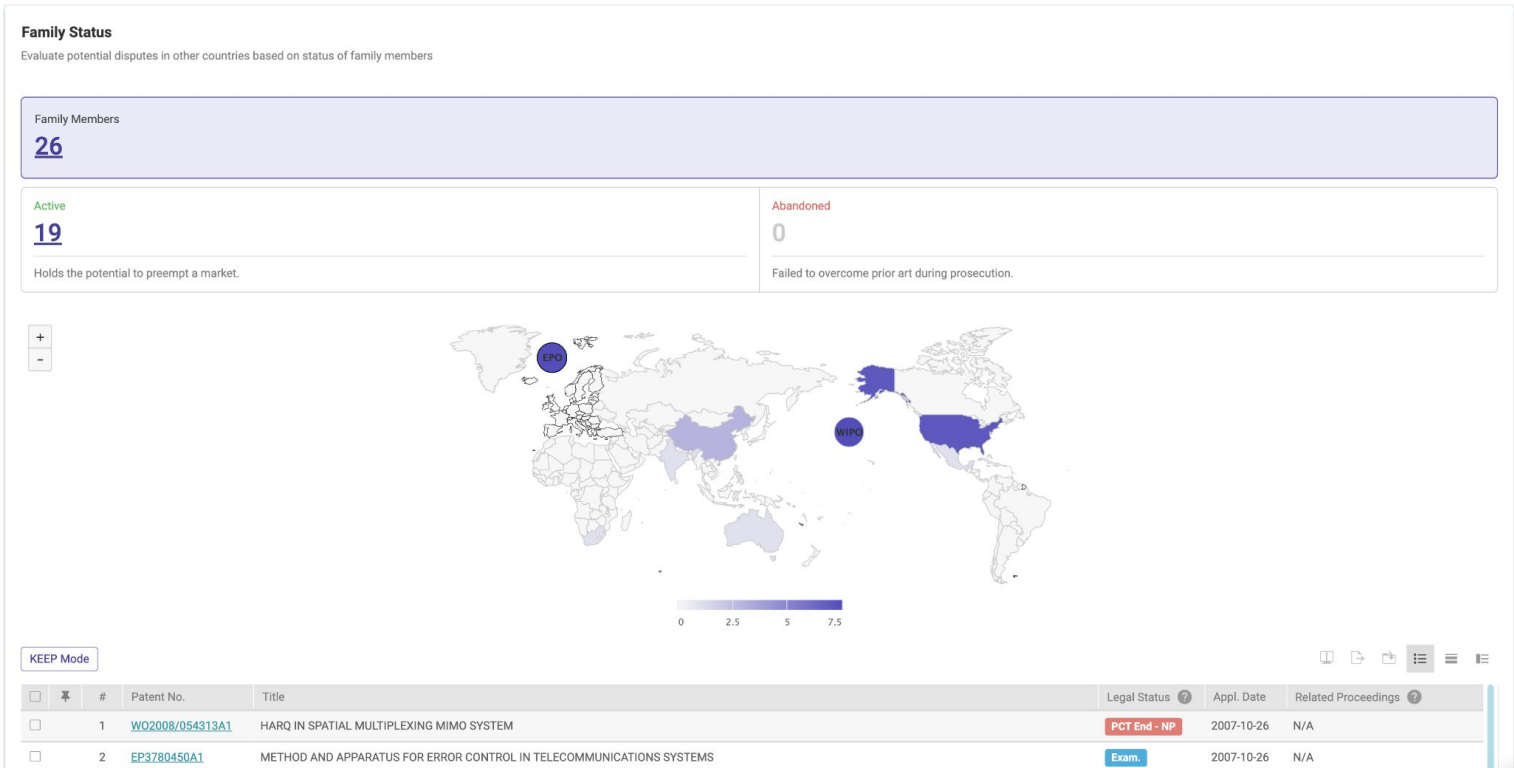
Potential §102 and §103 Prior Art

Identify applicable references not previously considered in prosecution and post-grant proceedings as potential prior art.

Discover prior art's similarity with claim chart format in seconds !

Potential §102 Prior Art		Potential §103 Prior Art	
76		147	
KEEP Mode			
#	Patent No.	Title	Applicability
1	US20050262528A1	Smart car radio	(Pre-AIA) § 102(e)(1)
2	US6629197B1	Method and system for storing digital audio data and emulating multiple CD-changer units	(Pre-AIA) § 102(e)(2)
3	US20020084910A1	Automotive multiple media system	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(1)
4	JP2001-128280A	AUDIO DEVICE	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)
5	US6069896A	Capability addressable network and method therefor	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
6	US20050020223A1	Enhanced radio systems and methods	(Pre-AIA) § 102(e)(1)
7	US20020049717A1	Digital content distribution system and method	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(1)
8	US6697638B1	Intelligent portable phone with dual mode operation for automobile use	(Pre-AIA) § 102(e)(2)
9	US6339458B1	Digital video disc vehicle television	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(2)
10	US661811A	Rear seat audio control with multiple media	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
11	US6304173B2	Rear view and multi-media system for vehicles	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)

同族當前狀態圖表顯示了專利家族成員的法律和涵蓋狀況，可發掘在其他國家的潛在糾紛或機會。



通過點擊圖表頂部的數字部分，你可以在每個相應的列表（見底部）之間切換，以了解專利家庭成員的總數、法律狀態為有效中和放棄的家族成員清單。

每個清單中的專利都可以進行比對、下載或導出到 *Patent Vault*。

For more details on the Overview page, please see the [Overview](#) article in Patentcloud's Help Center.

Quality Insights 分頁介紹

深入洞察每個專利細節

除了 "總覽" 頁面外, Quality Insights 還提供了七個其他工具頁面, 協助評估專利的品值。

- **歷程**

- 查看審查和再審/複審過程的事件摘要

- **請求項分析**

- 檢視專利說明書中與請求項相關的段落文字

- **請求項剖析**

- 檢視請求項在申請和獲證後的歷程中如何被披露

- **同族前案**

- 確定專利家族成員的新穎性和非顯而易見性(§102和§103)的引證與被引證前案

- **前案調查**

- 揭開多達6階的新穎性專利引證

- **相似前案**

- 根據語義相似性找到最相關的潛在前案

- **申請歷程文件檢索**

- 在專利申請記錄的主要文件進行搜索

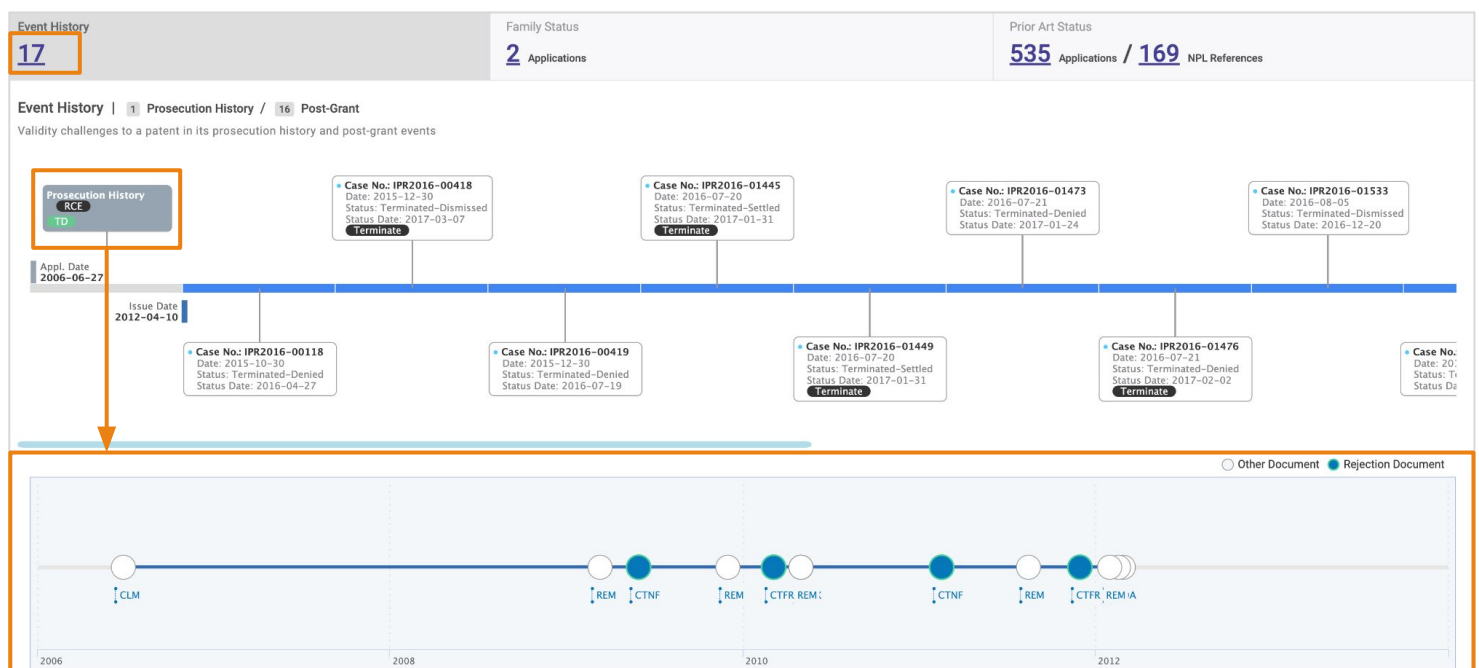
歷程頁面提供全面的專利狀態、申請歷程和複審、再審歷程序 (IPR/CBM/PGR) 資料。

事件歷程分頁包含三大主要區塊

- 專利歷史的主要時間軸，包括各申請和再審複審歷程的子時間線。
- 審查委員或申請人在雙重專利、§102或§103問題的法律依據引用的引證前案。
- 每個事件中的文件記錄摘要，包含每個前案和相對應的請求項。

事件歷程下面顯示的數字代表了至今包括審查和複審的事件數量。

點擊事件，可以在下面看到事件的歷史。



事件歷程時間軸上的圓點代表專利審查 (Office Actions)。你可以在每個事件上移動滑鼠來查看每個事件的日期。

審查歷程時間軸上的黑點代表核駁文件。

在再審/複審程序的時間軸上黑點代表請願和判決書。

向下滾動以查看該專利事件歷程中引用的前案和法律依據。

如果出處是一項專利，你可以通過點擊專利號查看詳細專利頁面。每個專利號下面是該專利發明人的名字。

11/475847 Prior Art Ref. | 10 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting 2 Ref.

US7489786 Mella US7031477 Mella

§ 102 2 Ref.

US7493845 Tranchina US20040117442 Thielen

§ 103 6 Ref.

US7493845 (1st) Tranchina US6539358 (1st) Coen US20040117442 (1st) Thielen US20020009978 Dukach US7031477 Mella US6124456 Chen

此處列出事件歷程，可以點擊事件名稱打開原始文件。

每條文件說明所列的爭點 (grounds) 都是從原始文件中解析的。

Order

ORDERED that claims 1, 5–7, 11, and 13 of U.S. Patent No. 7,630,802 are determined by a preponderance of the evidence to be unpatentable; and FURTHER ORDERED that, because this is a final written decision, parties to the proceeding seeking judicial review of the decision must comply with the notice and service requirements of 37 C.F.R. § 90.2.

Summary of IPR2013-00414 History | 6 Event(s)

Data Last Updated on: 2021-11-15

Descriptions (Code)	Date	Prior Art Ref.
Final Decision 1	2015-01-06	Grounds 2
Legal Basis	Claims	Prior Art Ref.
35 U.S.C. § 102	claim 1,5,6,7,11,13	US5157610
35 U.S.C. § 103	claim 5	Asano US5157610 (1st) Gormley US5513107
35 U.S.C. § 102	claim 1,5,6,7,11,13	H01-197145
35 U.S.C. § 102	claim 1,5,6,7,11,13	US5531122
35 U.S.C. § 103	claim 5	Scholl US540008 (1st) 3 Windle US4926351
35 U.S.C. § 103	claim 1,5,6,7,11,13	Ishihara H01-197145 (1st) Scholl US5400018
35 U.S.C. § 103	claim 1,5,6,7,11,13	Scholl US4926331
35 U.S.C. § 102	claim 1,5,6,7,11,13	US5400018
35 U.S.C. § 103	claim 1,5,6,7,11,13	Asano US5513107

1 點擊每個事件的描述以查看原始文件 (PDF) 和 OCR 文本。

2 理由旁邊的數字反映了每條記錄中審查委員或請願人提出的符合核駁條件的理由數量。你可以通過下拉展開來查看法律依據、相應的請求項和前案。

核駁的理由是從相應的文件中解析提取的。

3 1st 指對 §103 前案的主要參考 (第一順序)。

E. Prior Art References Relied on by Petitioner

Reference	Description	Issue Date	Exhibit No.
Asano	US 5,157,610	Oct. 20, 1992	Ex. 1003
Gormley	US 5,513,107	Apr. 30, 1996	Ex. 1007

F. The Pending Grounds of Unpatentability

Reference[s]	Basis	Claims Challenged
Asano	§ 102(b)	1, 6, 7, 11, and 13
Asano and Gormley	§ 103(a)	5

2. Alleged Obviousness of Claim 5 over Asano and Gormley

Claim 5 depends from claim 1 and further recites: “a user interactive device coupled to and controlled by said module, said user interactive device being a display on which messages relating to the monitored components are provided to the user.”

Asano discloses a “display or alarm” that allows the “vehicle-mounted computer” to “display . . . operating conditions.” Ex. 1003, 4:12–13. The display also gives the driver “instructions” in response to component failures. *Id.* at 7:18–21. Thus, Asano discloses a “display on which messages relating to the monitored components are provided to the user,” as claim 5 further requires.

原始檔案 (PDF)

Summary of 09/755878 History

9 Event(s)

Data Last Updated on: 2020-02-15

Descriptions (Code)	Date	Prior Art Ref.
Notice of Allowance (NOA)	2004-12-15	
Notice of Allowance (NOA)	2004-12-15	
Applicant Arguments/Remarks Made in an Amendment (REM)		
Claims (CLM)		
Non-Final Rejection (CTNF)	2004-05-13	Grounds 7 ^
Legal Basis	Claims	Prior Art Ref.
35 U.S.C. § 102(e)	Claim 1,8,16,19	Yarnaki US20030110928
35 U.S.C. § 103(a)	Claim 11	Hoashi US5870684
35 U.S.C. § 103(a)	Claim 2,9-10,17-18	Hayato US6175721
35 U.S.C. § 103(a)	Claim 15	Cobb US5771001
35 U.S.C. § 103(a)	Claim 13-14	Kraft US6463278
35 U.S.C. § 103(a)	Claim 3	Yoshino US6308086 Hayato US6175721
35 U.S.C. § 103(a)	Claim 12	Kraft US6463278

Applicant Arguments/Remarks Made in an Amendment (REM)

2004-04-05

[Claims \(CLM\)](#)

列出美國專利法 35 U.S.C. § 102/103 法律依據與重複專利

點擊前案專利號可在專利頁上查看該專利的全文 / 請求項。

歷程所收集的原始文件包括：

審查歷程

- 審查意見
- 申請人意見陳述
- 申請專利請求項修正
- 範圍核准審定書

PTAB 複審歷程

- 請求書/請願書
- 專利權人的答辯/意見陳述
- 立案決定書
- 最終判決書

Re-examination 再審查

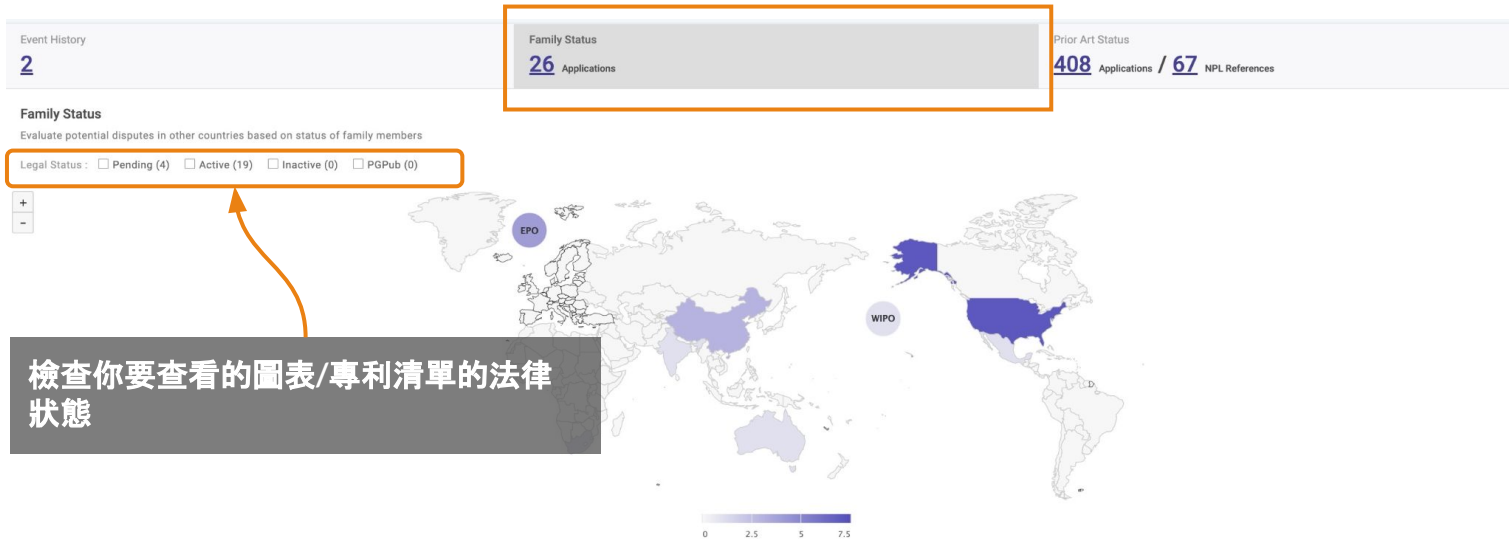
- 再審查請求書/請願書
- 專利局授予 (Office Actions)
- 專利權人的答辯/意見陳述/請求項修正
- 再審查證明

ITC

- 建議決定

美國專利審查歷程文書, 請參閱 [資料即時性與完整性](#) 頁面。

同族當前狀總結了專利族成員的法律狀態，包括"放棄申請"、"有效中"、"申請中"和"申請已獲證"。



Family Status | 26 Applications

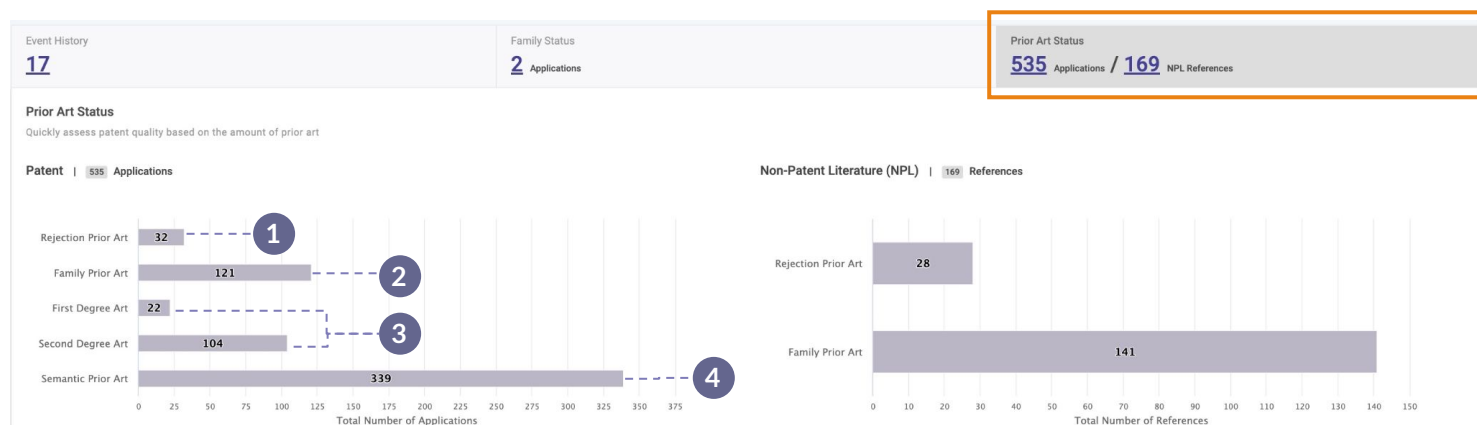
KEEP Mode

<input type="checkbox"/>	#	Patent No.	Title	Legal Status	Appl. Date	Related Proceedings
<input type="checkbox"/>	1	AU2007314679B2	HARQ in spatial multiplexing MIMO system	Active	2007-10-26	N/A
<input type="checkbox"/>	2	CN101529785B	HARQ in spatial multiplexing MIMO system	Active	2007-10-26	N/A
<input type="checkbox"/>	3	CN103023629B	空间多路复用MIMO系统中的HARQ	Active	2007-10-26	N/A

Check the family member list

本節在一個綜合表格中總結了該專利的前案-包括已考慮的和未考慮的-以便初步了解該專利的現有前案問題。

每個條形圖代表了Quality Insights識別的前案來源的數量以及它們與此篇涉訟專利的關係。



1 核駁引證前案

來自於訴訟歷程中非最終和最終審查意見中發現的前案。

2 同族前案

該專利的家族成員的引證專利/非專利文獻。

3 一階 & 二階引證

該專利的引證專利文獻。

4 相似前案

在 CN, JP, US, EP, KR, WO, CA, DE, AU, FR, GB, RU, TW, IN 找到的相似前案。

在Patentcloud的幫助中心有更多關於[歷程](#) 頁的資訊。

請求項分析 & 請求項剖析 – 有效解析請求項範圍 (claim scope) 的利器

請求項分析頁審查專利本身固有的要素，而請求項剖析頁則審視此涉訟專利及與其引證前案。

兩者在專利的說明書、圖式和審查歷程文書中尋找主要的請求項用語證據，以澄清專利的請求項範圍。

請求項分析

用於找請求項用語相關的說明書段落作為權利範圍界定的內部證據。

請求項	專利說明書
<p>Select Text</p> <p>information processing device</p> <p>The selected clause includes the following keywords:</p> <p>"information processing device" (25)</p>	<p>Content</p> <p>[0032] With this embodiment, power consumption control according to the present invention is possible with information processing devices that are not capable of changeover control and devices for which power consumption reduction is possible only for the function devices. Thus, priority-based power consumption control can be provided for individual function devices even in information processing devices that are not capable of changeover control.</p> <p>[0001] The present invention relates to an information-processing device in which a plurality of independent function devices is driven by a common power supply. More specifically, the present invention relates to a battery-operable information processing device and a method for controlling power consumption for the same.</p>

請求項剖析

將專利的請求項與審查委員的意見、前案參考文獻以及在審查歷程文書中發現的請求項範圍更改進行比較。

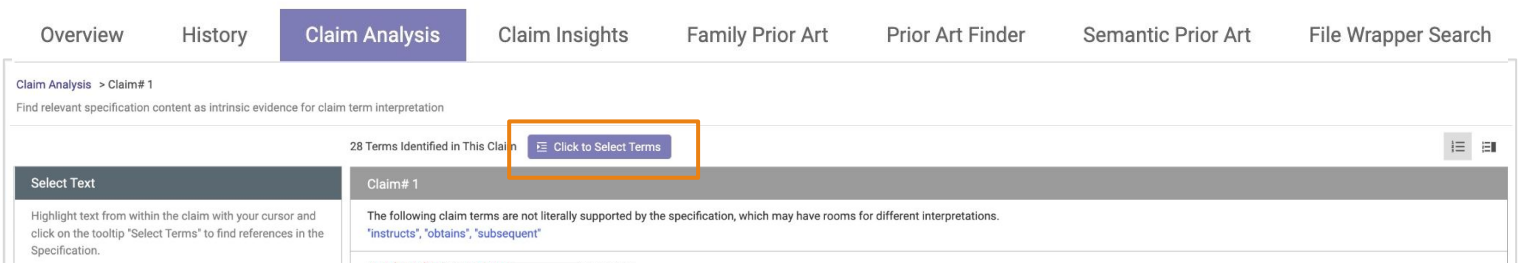
請求項	審查歷程文書
<p>1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 1.09 1.10 1.11</p> <p>Claim Element</p> <p>#1.03 N is equal to or greater than three times a number of effective scanning lines M of a display screen;</p>	<p>Find 2 Result(s) ⓘ Filter ▾ ⓘ Help</p> <p>Prior Art Ref. '218 [US6292218] Elements [otherreference] Parulski [US6292218] Misawa [US5444482]</p> <p>Rejection 20180620-Petition Post-Grant 35 U.S.C. § 103</p> <p>Claim 8: 'An electric camera according to the claim 5, wherein N is equal to or greater than a product of a fixed parameter multiplied by a number of effective scanning lines M of the display sc...</p> <p>▼ Show All</p> <p>Prior Art Ref. Elements [otherreference] Misawa [US5444482]</p> <p>Rejection 20180620-Petition Post-Grant 35 U.S.C. § 103</p> <p>Limitations that Claims 8 and 9 add to Claim 5 are disclosed as described in this Ground in reference to Elements I[A] and I[B], respectively. (Ex.1004 fil345.). The N=1024 vertical lines of the Watanabe '...</p> <p>▼ Show All</p>

請求項分析通過在專利的說明書和圖式中找到與請求項對應的證據，幫助你進行權利範圍解釋。

在請求項和說明書中都對應到的用語均以紅色標註。

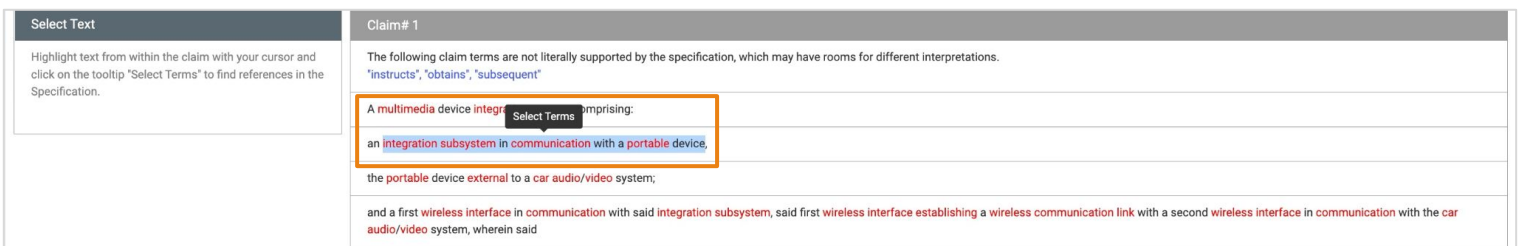
按 "選擇請求項文字" 後反選用顏色標示選取請求項中的任何文字，來尋找其在說明書中的對應相同文字的部分。

1. 按“選擇請求項文字”按鈕

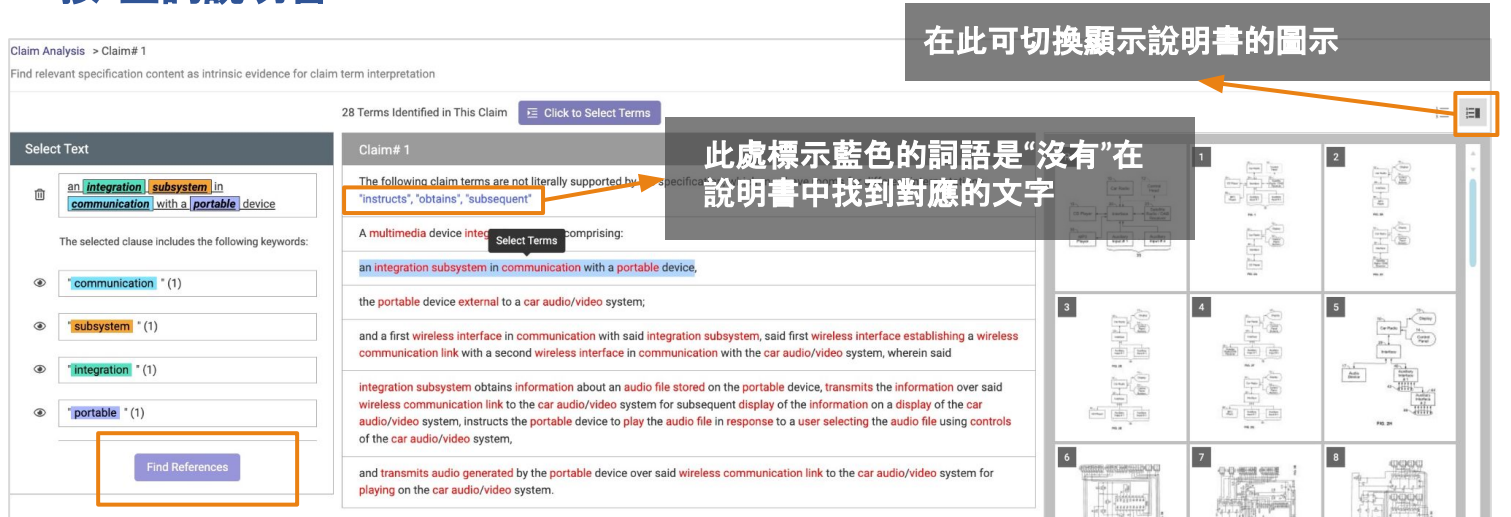


2. 用滑鼠選取出現顏色標示請求項中的文字

3. 按下文字上方黑底的選擇請求項文字，左邊會出現對中的用語和數量。



4. 按“查詢說明書”



在請求項所選的關鍵字詞在專利說明書中的所有段落都以不同顏色顯示。

Claim Analysis > Claim# 1 > Result(s)
Find relevant specification content as intrinsic evidence for claim term interpretation

Claim Terms

an **integration subsystem** in **communication** with a **portable** device

The selected clause includes the following keywords:

- communication** (12)
- subsystem** (24)
- integration** (46)
- portable** (66)

Content

[0162] The **integration subsystem** 932 receives control commands that are issued at the car system 910 and wirelessly transmitted to the **portable** device 924 via the wireless **communication** link 922, processes the commands into a format compatible with the device electronics 934 of the **portable** device 924, and dispatches same to the device electronics 934 for execution thereby, so as to provide remote, wireless control of the **portable** device 924 using the car system 910. For example, a "Play" command could be entered at the car system 910 (which could be a BMW car stereo), wirelessly transmitted to the **portable** device 924 (which could be an Apple ipod), converted by the **integration subsystem** 932 into a format recognizable by the device electronics 934, and executed thereby. The **integration subsystem** 932 also receives data generated by the device electronics 934 (including, but not limited to, track information, artist information, song title, time information, etc.), processes same into a format compatible with the car system 910, and transmits the processed data to the car system 910 using the wireless link 922 for display thereon using the display 918. For example, playlists or other data generated by the **portable** device 924 could be processed by the **integration subsystem** 932 into a format compatible with the car system 910, and wirelessly transmitted thereto for display on the display 918.

[0165] FIG. 19 is a diagram showing another embodiment of the present invention, indicated generally at 1000, wherein wireless **communication** is provided between a car audio and/or video system 1010 and a **portable** audio and/or video device 1024. The components shown in FIG. 19 are identical to the components shown in FIG. 18, and reference numerals of corresponding components in FIG. 19 are increased by 100. In this embodiment, the **integration subsystem** 1032 is positioned internally within the car system 1010, which also includes system electronics 1012, wireless interface 1016, display 1018, control panel 1020, and, optionally, external interface port 1014. The **portable** device 1024 includes a wireless interface 1026 in **communication** with device electronics 1034, and optionally, an external interface port 1028 for communicating with the external interface port 1014 of the car system 1010 via non-wireless connection 1030.

[0168] FIG. 21 is a diagram showing another embodiment of the present invention, indicated generally at 1200, wherein a docking slot 1240 is provided in a car audio and/or video system 1210 for receiving a **portable** audio and/or video device 1224. The components shown in FIG. 21 are identical to those disclosed in FIG. 20, and reference numerals of corresponding components have been increased by 100. In this embodiment, the **integration subsystem** 1232 is positioned within the car system 1210, which also includes system electronics 1212, display 1218, and control panel 1220. The **portable** device 1224 includes device electronics 1234 and an external interface port 1242 for interfacing with the docking slot 1240 and providing electrical (and/or optical) **communication** with the **integration subsystem** 1232.

[0166] FIG. 20 is a diagram showing another embodiment of the present invention, indicated generally at 1100, wherein a docking slot 1140 is provided in a car audio and/or video system 1110 for receiving a **portable** audio and/or video device 1124.

這是指該關鍵字詞在說明書中出現的次數。

若需更多 [請求項分析](#) 的資訊，請查看Patentcloud的幫助中心 [幫助中心](#)。

請求項剖析概要表反映各請求項被申請歷程或複審、再審引證前案揭露的比例。

表格中請求項的百分比(%)是以請求項技術特徵數量為基礎，對於審查委員(或第三方)於文件中認定有對應到引證前案的數量而計算的。

Claim	Disclosure by Single Reference		Disclosure by Multiple References	
	Prosecution History	Post-Grant	Prosecution History	Post-Grant
<input checked="" type="checkbox"/> #1				
<input type="checkbox"/> #16	85%	85%	85%	85%
<input type="checkbox"/> #30	85%	85%	85%	85%
<input type="checkbox"/> #33			80%	80%

Claim # 1

A radiotelephone, comprising: a housing having a front surface, a rear surface and first and second side surfaces adjoining respective opposite edges of the front surface and extending from the respective opposite edges of the front surface to respective opposite edges of the rear surface, the housing configured to be held in a user's hand such that the rear surface confronts the user's palm; a radiotelephone communications transceiver, supported by the housing; a display, supported by the housing, that displays an image at the front surface of the housing; a contact-sensitive transducer, supported by the housing and having a contact-sensitive surface disposed at at least one of the first and second side surfaces said front surface, which produces an output signal that characterizes in response to

點擊請求項號，在右邊查看相應的請求項內容。

展開以查看附屬項。

1. 選擇請求項
2. 點擊"確定"以查看所選請求項內容。

Claim	Disclosure by Single Reference		Disclosure by Multiple References	
	Prosecution History	Post-Grant	Prosecution History	Post-Grant
<input checked="" type="checkbox"/> #1	87%	87%	87%	87%
<input type="checkbox"/> #16	85%	85%	85%	85%
<input type="checkbox"/> #30	85%	85%	85%	85%
<input type="checkbox"/> #33	80%	80%	80%	80%
<input type="checkbox"/> #34	100%	100%	100%	100%
<input type="checkbox"/> #35	100%	100%	100%	100%
<input type="checkbox"/> #36	100%	100%	100%	100%
<input type="checkbox"/> #58	72%	88%	72%	88%
<input type="checkbox"/> #64	100%	100%	100%	100%

Claim # 1

A radiotelephone, comprising: a housing having a front surface, a rear surface and first and second side surfaces adjoining respective opposite edges of the front surface and extending from the respective opposite edges of the front surface to respective opposite edges of the rear surface, the housing configured to be held in a user's hand such that the rear surface confronts the user's palm; a radiotelephone communications transceiver, supported by the housing; a display, supported by the housing, that displays an image at the front surface of the housing; a contact-sensitive transducer, supported by the housing and having a contact-sensitive surface disposed at at least one of the first and second side surfaces said front surface, which produces an output signal that characterizes in response to moving contact of an object along the contact-sensitive surface of the contact-sensitive transducer; and a controller, responsive to the output signal and operatively associated with the display and the radiotelephone communications transceiver, which controls at least one of the display and the radiotelephone communications transceiver according to and which scrolls displayed rows along an axis of the display based upon the output signal of the contact-sensitive transducer, the controller having a first mode wherein the controller is responsive to contact with the contact-sensitive transducer and a second mode wherein the controller is unresponsive to contact with the contact-sensitive transducer, the second mode being entered in response to an input from a user.

Confirm

本表中的百分比(%) 顯示一請求項技術特徵中有多少用語被特定引證前案揭露

Claim Insights Summary Table > Claim Table (Claim# 1) **1** Select A Claim **1** 2 3 4 5 6 7 8 9 10 Next 10

How is each claim element disclosed by cited prior art? Click numbers to find detailed comparison.

1 The percentage "%" indicates how many keywords in an element being disclosed by a specific references. Click to find comprehensive explanation of calculation.

All Prosecution history Post-Grant Responded prior arts only

Claims	Prior Art Ref. (10)									
	JPH09-18566	US5889236	US6009338	US6496181	US5615384	US6178338	POSITA	US5347477	US6002946	US5347295
#1.01 (N/A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
#1.02 (N/A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 #1.03 A (100%) 4	100%	100%	100%	97%	100%	100%	100%	100%	100%	100%
#1.04 A (100%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
#1.05 A (100%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
#1.06 A (100%)	100%	100%	100%	80%	100%	100%	100%	100%	100%	100%
#1.07 A (100%)	100%	100%	100%	71%	100%	100%	100%	100%	100%	100%
#1.08 A (100%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
#1.09 A (100%)	100%	100%	100%	83%	100%	100%	100%	100%	100%	100%
#1.10 (0%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

- 1** 切換請求項
- 2** 審查歷程(或再審/複審程序)文件中的提到的引證前案
- 3** 點擊每個請求項技術特徵 查看其與所有引證前案的對比結果。
- 4** 點擊每個百分比, 查看請求項技術特徵與該特定引證前案的對比結果。

#1.05 **A** (100%)

滑鼠游標移至各請求項技術特徵可顯示其內容。

a radiotelephone communications transceiver, supported by the housing;

A : 代表請求項技術特徵曾經因為引證前案而修改。若請求項技術特徵不曾因核駁前案而修改, 則申請人答辯可能有影響請求項實質範圍的內容。

C : 代表請求項技術特徵對應的引證前案曾導致申請人放棄部分請求項, 反映引證前案 揭露的程度。

請求項技術特徵中的請求項文字以不同的顏色顯示，這代表了每個請求項文字首次是出現在同色的請求項技術特徵#號中。

The screenshot shows a patent analysis tool interface. On the left, a sidebar contains a 'Claim Element' section with a list of claim elements (1.01-1.09) and a 'Terms not in the file wrapper' section with buttons for 'circuit' and 'controller controls'. The main area displays a patent document with text highlighting terms in various colors (red, blue, green, yellow). Numbered callouts point to specific features: 1. A row of colored circles representing claim elements. 2. A search bar containing 'Prior Art Ref.' and '[US2007/0091835]'. 3. A filter button labeled 'Filter' and 'Clear All'. 4. A text box containing the word 'selection'. 5. A 'Show Less' button. 6. A 'Prosecution History' button and a '35 U.S.C. § 102' button.

- 1 切換請求項技術特徵
- 2 引證前案
- 3 引證前案的來源和法律依據
- 4 審查委員的核駁意見
- 5 專利權人的答辯/意見陳述
- 6 案件或法律依據篩選器

若需更多 [請求項分析](#) 的資訊，請查看Patentcloud的[幫助中心](#)。

同族前案頁面提供家族成員資訊，如家族成員的專利號、名稱、法律狀態、申請日期、公開日期以及涉及相關的再審 / 複審程序，並可發現專利家族成員的潛在問題和潛在前案。

簡單專利家族頁檢查簡單家族下的專利家族成員的狀態，是否有任何沒有通過審查而放棄或撤銷的成員。

這些家族成員所引用的引證前案也可能影響專利的有效性。

US10129590B2 [↗](#)

Display apparatus and video processing apparatus

Overview History Claim Analysis Claim Insights **Family Prior Art** Prior Art Finder Semantic Prior Art File Wrapper Search

[About Family Prior Art](#)

Simple Family

12

Backward Citation: Patent

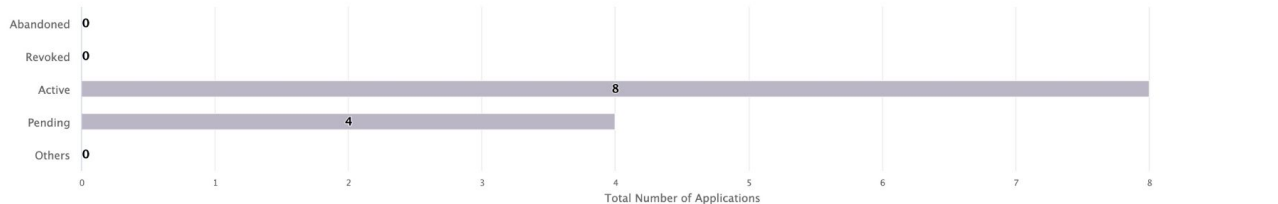
55

Backward Citation: Non-Patent Literature

18

Family Status | Family ID 40669376

Check to see if any applications have been abandoned or revoked, indicating a failed validity challenge.



KEEP Mode

Ranked By : Appl. Date |

<input type="checkbox"/>	#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Related Proceedings
<input type="checkbox"/>	1	JP5033598B2	表示装置および映像機器	Active	2007-11-28	2012-07-06	HITACHI LTD	N/A
<input type="checkbox"/>	2	US9420212B2	Display apparatus and video processing apparatus	Active	2008-10-29	2016-08-16	MAXELL HOLDINGS LTD	N/A
<input type="checkbox"/>	3	CN101473000B	显示装置和视频处理设备	Active	2008-11-07	2016-01-20	HITACHI MAXELL	N/A

同族前案 – 引證：專利文獻

家族前案列出了該專利家族成員的新穎性和非顯而易見性引證。這些引證專利被進一步分類顯示以表明其出處和前案適格性。

The screenshot displays the 'Simple Family' view for a patent family with 16 members. It highlights two categories of backward citations: Patent (136) and Non-Patent Literature (36). A horizontal bar chart shows the distribution of citations: 5 for Novelty, 24 for Non-Obviousness (Inventive Step), and 107 for Other Cited Ref. A legend indicates that blue circles represent 'Ref. from Abandoned Members' and green circles represent 'Other Cited Ref.'. A search bar is visible above the table, and a table below shows the first two patent entries with their legal status, dates, and applicability.

#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability	Reference
1	US6131047A	Radiotelephones having contact-sensitive u...	Expired	1997-12-30	2000-10-10	TELEFONAKTIEBOLAGET L...	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)	USRE43931 US8812059; I102; I103 US20140362018 (ABAN); *103
2	US6278888B1	Radiotelephones having contact-sensitive u...	Reissued	2000-07-25	2001-08-21	TELEFONAKTIEBOLAGET L...	Not Applicable	US8812059 US20140362018 (ABAN); *102; *103

列表最右邊的“出處”欄位指被引用的家族成員及其適格性。

例如，047號專利是家族成員US20140362018的第103條前案，該專利已被放棄。

同族前案 – 引證：非專利文獻

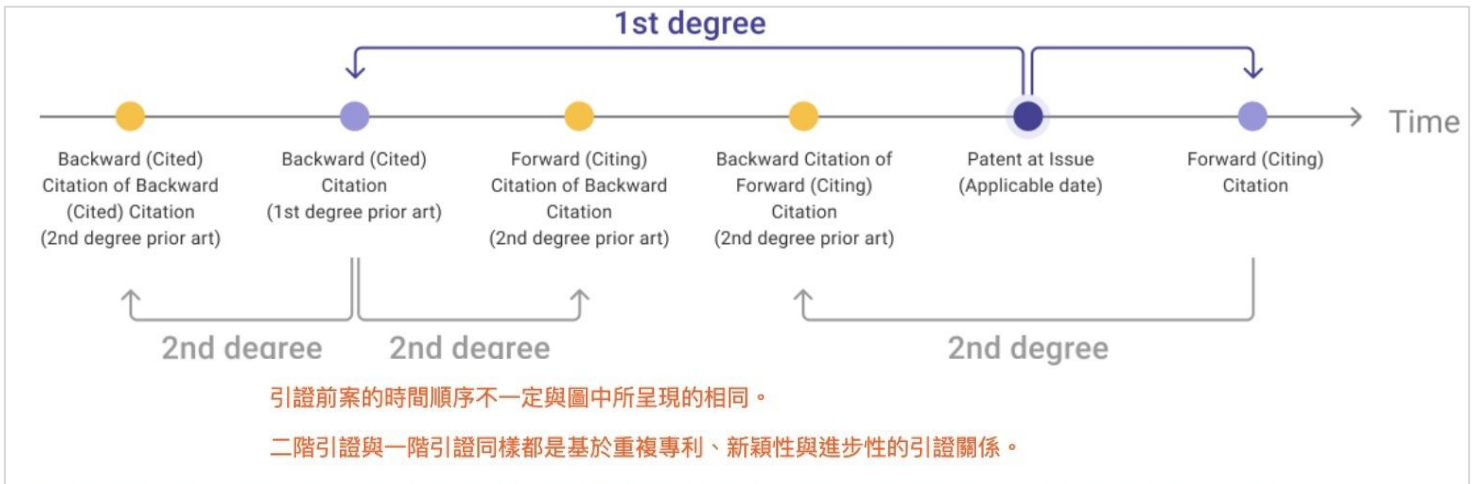
此頁列出專利家族成員非專利文獻引證。

The screenshot shows the 'Family Prior Art' view for a patent family with 16 members. It highlights 36 backward citations from non-patent literature. A table below lists the first eight citations, including their titles and references.

#	Title	Reference
1	Commission Investigative Staff's Notice of Prior Art, 2 pgs, Apr. 12, 2013.	US8812059
2	Complaint of Ericsson Inc. and Telefonaktiebolaget LM Ericsson under Section 337 of the Tariff Act of 1930, As Amended, 45 pages (pt 1), dated Nov. 30, 2012.	US8812059
3	Complaint of Ericsson Inc. and Telefonaktiebolaget LM Ericsson under Section 337 of the Tariff Act of 1930, As Amended, 45 pages (pt 2), dated Nov. 30, 2012.	US8812059
4	Defendant Samsung's Response to Ericsson's Answer, Affirmative Defenses, and Counterclaims to Samsung's First Amended Answer, Affirmative Defenses and Counterclaims, Ericsson Inc. v. Samsung Electronics Co., Ltd., Civil Action N...	US8812059
5	Defendant Samsung's Response to Ericsson's Answer, Affirmative Defenses and Counterclaims to Samsung's First Amended Answer, Affirmative Defenses and Counterclaims, May 16, 2013, 42 pages.	US8812059
6	Defendant Samsung's Response to Ericsson's Answer, Affirmative Defenses, and Counterclaims to Samsung's Third Amended Answer, Amended Answer, Affirmative Defenses and Counter claims, Ericsson Inc. v. Samsung Electronics Co...	US8812059
7	Defendants' Invalidity Contentions, Ericsson Inc. v. Samsung Electronics Co., Ltd., Civil Action No. 6:12-cv-894 (E.D. Tex.) (filed Dec. 20, 2013), 193 Pgs.	US8812059
8	Ericsson's Answer, Affirmative Defenses and Counterclaims to Samsung's First Amended Answer, Affirmative Defenses and Counterclaims, Apr. 22, 2013, 85 pages.	US8812059

若需更多 [同族前案](#) 的資訊，請查看 Patentcloud 的 [幫助中心](#)。

前案調查識別了在申請及獲證後中被考慮的重複專利、§102和§103引證及被引證。基於從專利延伸至多 6 階引證關係找出潛在前案。



透過適格性和法律依據檢視與專利的關聯性。

- §102 前案是指具新穎性問題之前案
- §103 前案是指具進步性問題之前案

Overview History Claim Analysis Claim Insights Family Prior Art **Prior Art Finder** Semantic Prior Art File Wrapper Search

1st Degree Art **2** 2nd Degree Art **26** **一階引證包括引證本專利及被本專利引證的專利文獻。** [Select patents](#)

1st Degree Art
Those citing or cited by the patent based on Double Patenting, §102, §103
Discover prior art's similarity with claim chart format in seconds!

KEEP Mode Ranked By: Legal Basis (§102 first)

#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability	Legal Basis
1	US20070091835A1	Device and method to play back contents a...	PGPub - Granted	2006-10-16	2007-04-26	SAMSUNG ELECTRONICS C...	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)	Backward 103 (Prosecution) Backward 102 (Prosecution)

Overview History Claim Analysis Claim Insights Family Prior Art **Prior Art Finder** Semantic Prior Art File Wrapper Search

1st Degree Art **2** 2nd Degree Art **26** N Degree Art **Select patents**

2nd Degree Art
Forward/backward citations of the First Degree Art
Discover prior art's similarity with claim chart format in seconds!

KEEP Mode Ranked By: Legal Basis (§102 first)

#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability	Legal Basis
1	US20040077341A1	Multi-interface mobility client	PGPub - Granted	2003-07-02	2004-04-22	LEE YUI-WAH	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)	US20070091835 Backward 103 (Prosecution) US20070091835 Backward 102 (Prosecution)

二階引證提供擴展自一階引證的引證、被引證專利文獻。

Note: The prior art references listed in Prior Art Finder are those listed as primary references in prosecution and post-grant proceedings.

根據重複專利、§ 102或§ 103的核駁理由，延伸找到下一階的引證與被引證專利。選擇列表中的任何引證前案，以找到其第N階的引證專利。在Quality Insights中可以檢視最多可至六階的引證與被引證專利。

1. 手動選擇最多至20個引證前案，或點擊"選擇前20篇"。

2. 點擊"確定"。重複這個過程，可延伸到第6階的前案。

Active

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US7773588B2 [↗](#)

System and method for cross protocol communication

Overview History Claim Analysis Claim Insights Family Prior Art **Prior Art Finder** Semantic Prior Art File Wrapper Search

About Prior Art Finder

1st Degree Art **6** 2nd Degree Art **34** N Degree Art **Select patents**

N Degree Art

Extend forward/backward citations from the Second Degree Art

Discover prior art's similarity with claim chart format in seconds!

KEEP Mode Ranked By: Legal Basis (§102 first) | 🔍 🗑️ 📄 📁 🗑️ 🗑️

US7773588B2 5th Degree List | Selected 0/20 Patent(s) **Select top 20 patents in list** **Confirm**

#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	As
<input type="checkbox"/>	1 US20070073892A1	Group communication in communication s...	PGPub - Granted	2005-11-23	2007-03-29	LA
<input type="checkbox"/>	2 US20050069116A1	Apparatus, method, and computer program ...	PGPub - Granted	2003-09-30	2005-03-31	MI
<input type="checkbox"/>	3 US20040128354A1	Teleconference system, teleconference sup...	PGPub - Granted	2003-10-28	2004-07-01	FU
<input type="checkbox"/>	4 US20070106795A1	Automatic orchestration of dynamic multipl...	PGPub - Granted	2005-11-08	2007-05-10	GII
<input type="checkbox"/>	5 US20060153352A1	COMMUNICATION SYSTEM	Abandoned Appl.	2005-05-31	2006-07-13	INI

1st Degree (4) 2nd Degree (11) 3rd Degree (4) 4th Degree (8) 5th Degree

You can select

展開/縮合每一階可以看到該階相應的引證前案。

註：在"總覽"頁上看到的引證前案的數量是包括三階以下前案來統計。

若需更多前案調查的資訊，請查看Patentcloud的[幫助中心](#)。

在人工智慧演算法的支持下，語意分析頁面提供了多達 300個具有最高語義相似度的美國、歐洲、日本、韓國、中國，及 WIPO 等 14 個專利局 潛在前案專利文獻。

標註星形(★) 指在此範圍內高語意相似度前案

標星形(★)具有高語意相似度的前案與涉訟專利的語義相似性的百分比高於所有美國專利與其家族成員和§102/§103前案的匯總平均相似度。

簡單地說，找到的具有高語意相似度的前案(★)比其家族/§102/§103 前案與涉訟專利更相似。

”參照“欄位：

- CONS (被考慮過的) - 曾於申請歷程或 PTAB 案件中使用過的前案。
- 2nd - 二階引證(CONS的引證或被引證)。
- FAMI (Family) - 同族前案。

Overview History Claim Analysis Claim Insights Family Prior Art Prior Art Finder **Semantic Prior Art** File Wrapper Search

About Semantic Prior Art

Semantic Prior Art
Most Relevant US, EP, JP, KR, CN & WO potential prior art references based on [Semantic Similarity](#) with a patent's first claim and abstract. [Change Scope](#)

Discover prior art's similarity with claim chart format in seconds !

KEEP Mode 10 are of high semantic similarity

Ranked By : Relevance

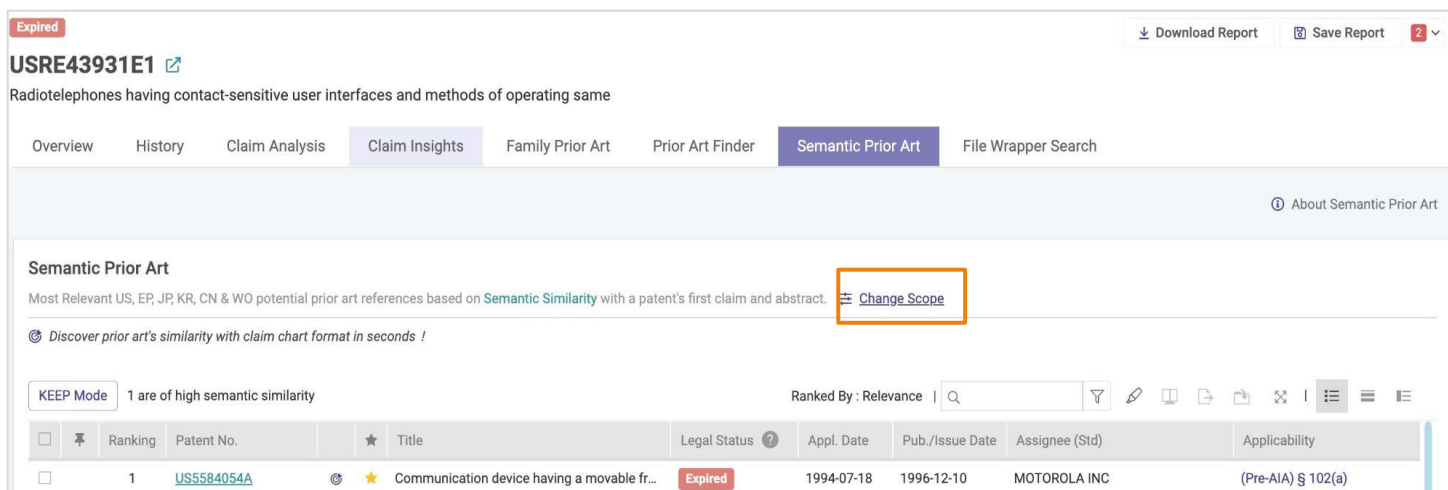
Ranking	Patent No.	★	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability	Cross-Reference
1	WO1999/041918A1	★	METHOD FOR VARIABLE BLOCK SCHEDULI...	PCT End - NP	1999-01-29	1999-08-19	TELEFONAKTIEBOLAGET L...	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)	CONS. FAMI
2	US8134994B2	★	Method of scheduling on downlink and tran...	Active	2003-02-14	2012-03-13	ALCATEL LUCENT	(Pre-AIA) § 102(e)(2)	
3	US20040160936A1	★	Method of scheduling on downlink and tran...	PGPub - Granted	2003-02-14	2004-08-19	LIU JUNG-TAO	(Pre-AIA) § 102(e)(1)	
4	US20030013451A1	★	Method and apparatus for controlling uplin...	PGPub - Granted	2001-05-03	2003-01-16	WALTON JAY R	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)	CONS. FAMI
5	US20040219919A1	★	Management of uplink scheduling modes i...	Abandoned	2003-04-30	2004-11-04	GHOSH AMITAVA	(Pre-AIA) § 102(e)(1)	FAMI
6	US20050025100A1	★	Scheduling apparatus and method in a CD...	Abandoned	2004-02-12	2005-02-03	SAMSUNG ELECTRONICS C...	(Pre-AIA) § 102(e)(1)	CONS. FAMI
7	US20050265301A1	★	Method of transmitting scheduling informa...	Abandoned	2005-02-14	2005-12-01	SAMSUNG ELECTRONICS C...	(Pre-AIA) § 102(e)(1)	
8	KR1020030005898A	★	Device for channel scheduler in wireless pa...	PGPub - Granted	2001-07-10	2003-01-23	LG ELECTRONICS INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)	FAMI
9	US20040214602A1	★	Base station apparatus and upstream pack...	Abandoned	2004-02-19	2004-10-28	AOYAMA TAKAHISA	(Pre-AIA) § 102(e)(1)	

具有高語意相似度(★)的相似前案也包括在總覽頁面的潛在§103前案

相似前案 – 經由語意相似度 找出最相關聯的潛在專利前案

默認情況下，相似前案的結果是基於將專利的第一請求項和摘要與潛在參考專利文獻的英文標題、摘要和所有請求項進行比較。但是，“變更範圍”可以自訂搜尋相似前案的範圍。

1. 點擊“變更範圍”



Expired

USRE43931E1 [↗](#)

Radiotelephones having contact-sensitive user interfaces and methods of operating same

Overview History Claim Analysis Claim Insights Family Prior Art Prior Art Finder Semantic Prior Art File Wrapper Search

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Semantic Prior Art

Most Relevant US, EP, JP, KR, CN & WO potential prior art references based on Semantic Similarity with a patent's first claim and abstract. [Change Scope](#)

Discover prior art's similarity with claim chart format in seconds!

KEEP Mode 1 are of high semantic similarity

Ranked By: Relevance

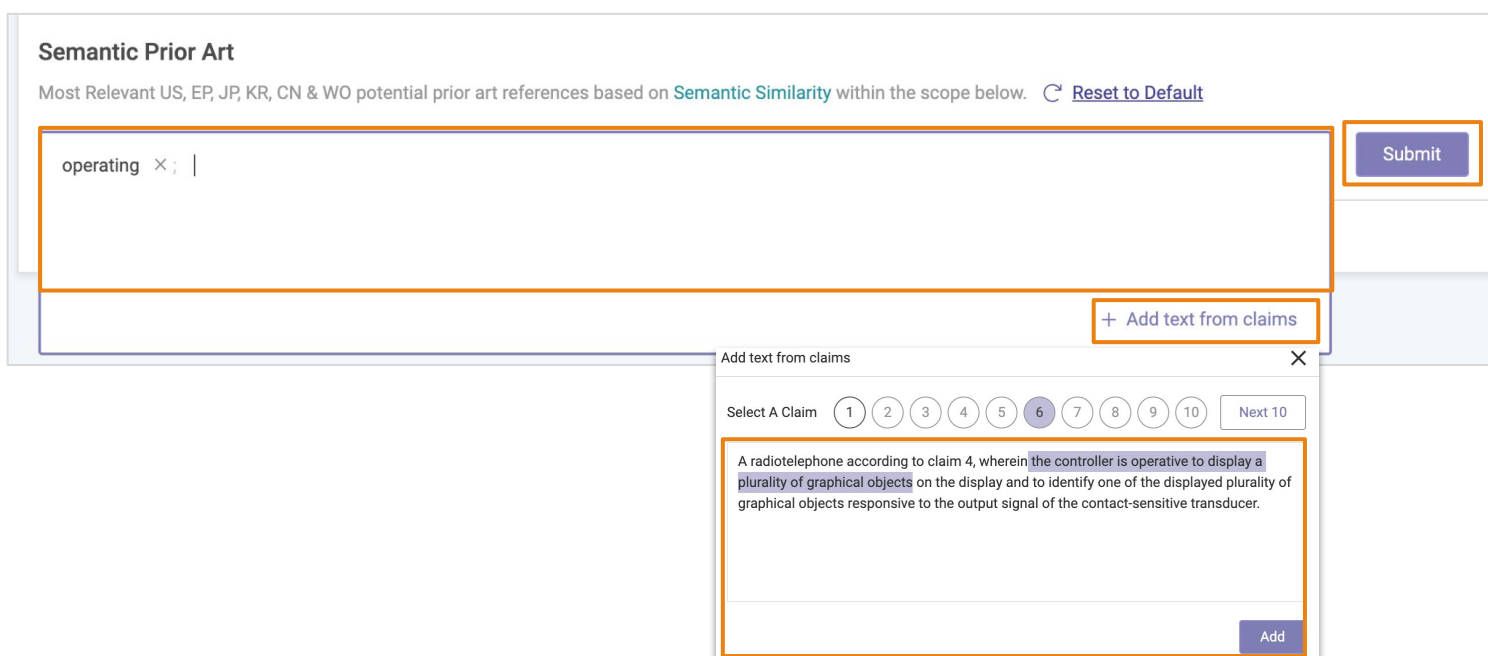
<input type="checkbox"/>	Ranking	Patent No.	<input type="checkbox"/>	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability
<input type="checkbox"/>	1	US5584054A	<input checked="" type="checkbox"/>	Communication device having a movable fr...	Expired	1994-07-18	1996-12-10	MOTOROLA INC	(Pre-AIA) § 102(a)

2. 點擊文字框，輸入需比對的用語文字。

3. 或是按“從請求項加入”。

4. 選擇請求項，用滑鼠螢光筆選取詞語，再點擊“加入”

5. 完成選擇一個或多個詞語後點擊“確認”。



Semantic Prior Art

Most Relevant US, EP, JP, KR, CN & WO potential prior art references based on Semantic Similarity within the scope below. [Reset to Default](#)

operating × ; | [Submit](#)

[+ Add text from claims](#)

Add text from claims

Select A Claim 1 2 3 4 5 6 7 8 9 10 Next 10

A radiotelephone according to claim 4, wherein the controller is operative to display a plurality of graphical objects on the display and to identify one of the displayed plurality of graphical objects responsive to the output signal of the contact-sensitive transducer.

[Add](#)

若需查看更多 [相似前案資訊](#)，請查看Patentcloud的[幫助中心](#)。

您透過關鍵詞檢索申請歷程、複審、再審及美國國際貿易委員會案件的主要文件。

進行跨文件的關鍵詞搜索

Enter keywords to search related file wrappers, e.g. specific claim term for applicants' related interpretations



Rejections, Remarks, and Notice of Allowance in Prosecution History (8 Records)

<input type="checkbox"/>	Descriptions (Code)	Party	Date
<input type="checkbox"/>	Notice of Allowance (NOA)	USPTO	2004-12-15
<input type="checkbox"/>	Notice of Allowance (NOA)	USPTO	2004-12-15
<input type="checkbox"/>	Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2004-08-16
<input type="checkbox"/>	Non-Final Rejection (CTNF)	USPTO	2004-05-13
<input type="checkbox"/>	Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2004-04-05
<input type="checkbox"/>	Final Rejection (CTFR)	USPTO	2004-01-05
<input type="checkbox"/>	Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2003-10-27
<input type="checkbox"/>	Non-Final Rejection (CTNF)	USPTO	2003-07-25

Data Last Updated on 2019-11-13

Petitions, Response/Reply, and Decision in Post-Grant Proceedings (3 Records)

<input type="checkbox"/>	Case No.	Descriptions (Code)	Party	Date
<input type="checkbox"/>	IPR2019-00640	Termination	US PTAB	2019-04-25
<input type="checkbox"/>	IPR2019-00640	Termination	US PTAB	2019-03-01
<input type="checkbox"/>	IPR2019-00640	Petition	Petitioner	2019-01-31

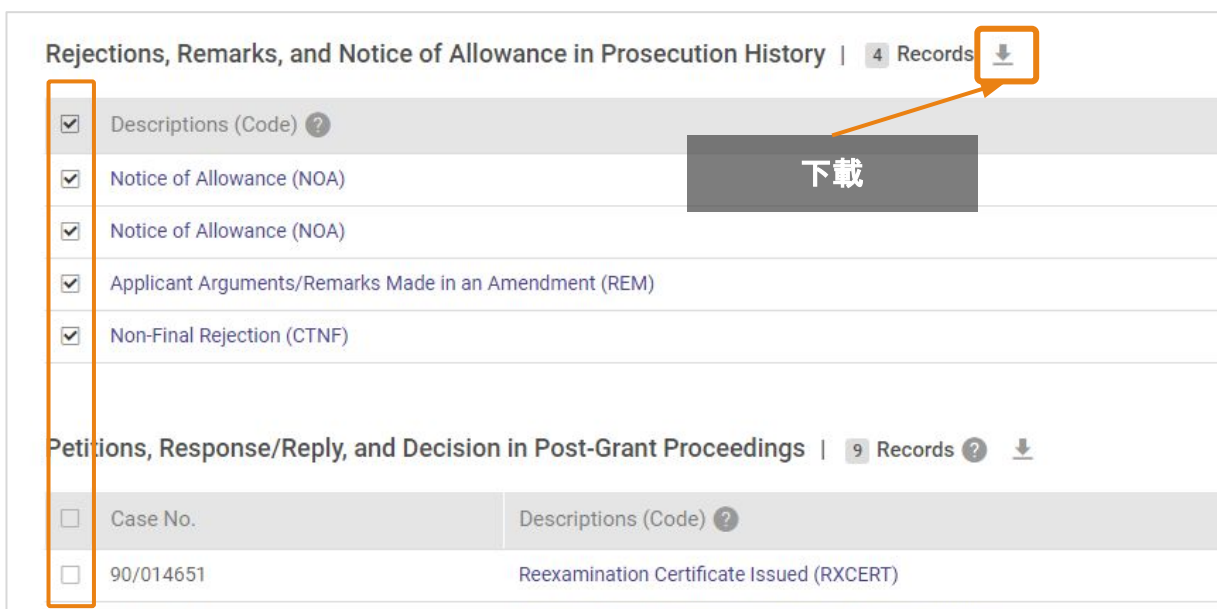
Data Last Updated on 2019-11-13

申請歷程文件涵蓋了：

1. 說明書及申請專利範圍變更
2. 審查意見、申請人意見陳述及核准審定書
3. 請願書、答辯/申復及判決書(再審/複審)

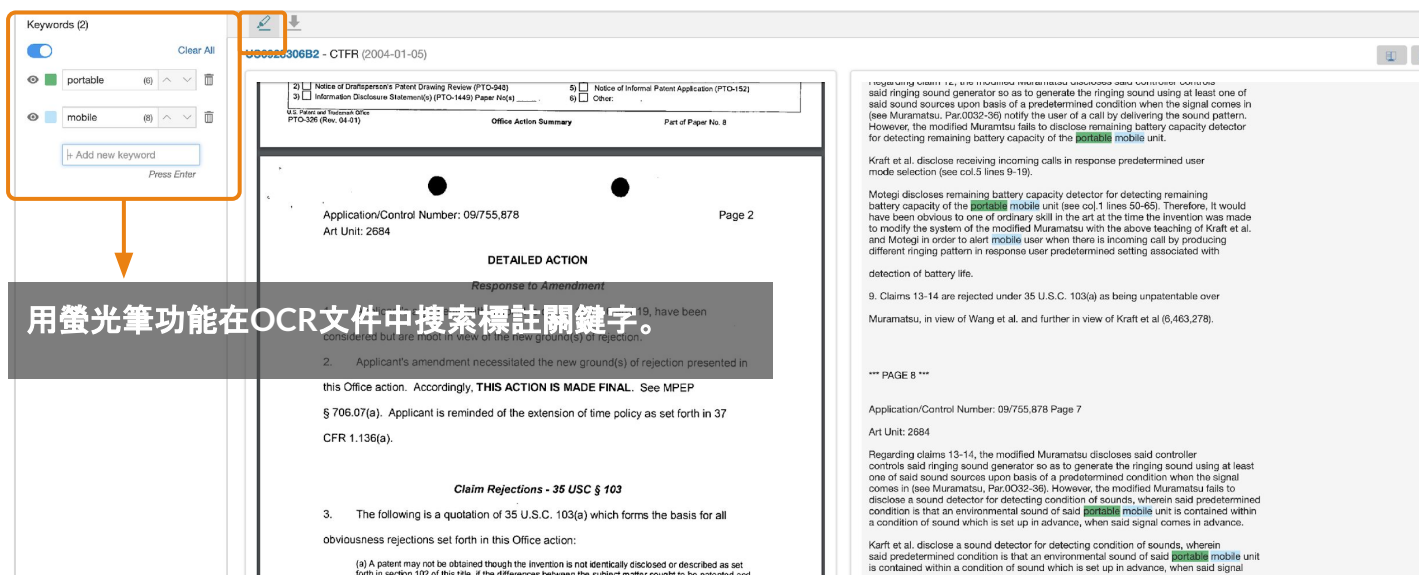
申請歷程文件檢索 – 下載

選擇文件名稱並點擊下載圖示。



申請歷程文件檢索 – 檢視文件

在一份文件中進行關鍵詞搜索，以快速、輕鬆地確定專利的權利項範圍。在駁核記錄中搜索額外的請求項用語。



用螢光筆功能在OCR文件中搜索標註關鍵字。

若需查看更多 [申請歷程文件檢索](#) 資訊，請查看Patentcloud的[幫助中心](#)。

前案解析

前案解析使您能夠將專利的請求項與在同族前案、前案調查和相似前案中發現的 US / EP / WO 引證前案進行比較。

點擊任何現有列表中的專利號旁邊的目標圖標，將帶您進入現有前案解析頁面。

<input type="checkbox"/>	#	Patent No.		Title
<input type="checkbox"/>	1	CN1247662A		Dual use speaker for both voice communi...
<input type="checkbox"/>	2	EP0998105B1		Mobile telephone ringing method
<input type="checkbox"/>	3	JPH09-036932A		EXTERNAL RINGER DEVICE, RADIO TER...
<input type="checkbox"/>	4	JPH11-055358A		MOBILE RADIO UNIT AND IT CALL SOUN...
<input type="checkbox"/>	5	US5317622		Ringing circuit for use in a telephone set f...

各請求項技術特徵被前案揭露的比例

請求項內容

<input type="checkbox"/>	Claims ⓘ ▾	Selected Prior Art Ref.	Claim# 1
		US5317622	1. A portable mobile unit capable of alerting on incoming of a signal by a ringing sound, comprising: a ringing sound generator having a plurality of sound sources therewith; a mixer for mixing a plurality of said sound sources; and a controller for controlling operations of said portable mobile unit, wherein said controller controls said ringing sound generator so as to generate the ringing sound using at least two of said sound sources when the signal comes in.
<input type="checkbox"/>	#1 (100%)	Select to Calculate	
▾	#2 (100%)	Select to Calculate	
<input type="checkbox"/>	#12 (100%)	Select to Calculate	
▾	#13 (100%)	Select to Calculate	

"選取以繼續進行比對"表示從專利中提取的請求項用語的揭露程度尚未被 *Quality Insights* 計算。選擇一項或多項請求項，並點擊 "確認" 進行計算。

透過點擊你想檢查的請求項查看每個當前的請求項技術特徵被過去已經發現的前案揭露程度，以及該請求項技術特徵將被你選擇的前案揭露程度。

如果請求項技術特徵在過去的揭露率很低，但與新選擇比對的前案相比揭露率很高，這表明新的前案參考文獻顯著地揭露了先前考慮的前案沒有揭露的請求項的部分內容。

Summary > Claim# 1 | Select A Claim 1

Claims ⓘ	Prior Art Ref.
	US5317622
1 #1.01 (100%)	2 50%
#1.02 (100%)	40%
#1.03 (100%)	0%
#1.04 (100%)	0%
#1.05 (100%)	60%

- 1 請求項被劃分為幾個請求項技術特徵。百分比表示在申請和獲證後歷程中發現的現有技術的揭露程度，同於請求項剖析頁的使用方式。
- 2 百分比 (%) 顯示一請求項技術特徵中有多少用語被前案揭露。

透過查看請求項技術特徵中的相同關鍵字與現有前案的摘要、說明書和請求項比對情況來檢查請求項技術特徵的揭露狀況。

對到相同的關鍵字越多，標的專利與本篇專利文獻之間的相似性就越高。

Summary > Claim# 1 > Claim# 1.01 > Result(s) | Select A Claim 1

Find 2 Result(s) | Disclosure Rate : 50%

Claim Element	US00005317622 Content
#1.01 A portable mobile unit capable of alerting on incoming of a signal by a ringing sound , comprising: Keyword List <ul style="list-style-type: none">signal by (2) FW PAincoming (0) FWringing sound (1) FW PAportable mobile (0) FW	Specification <p>[29] The frequency divider 83 divides the frequency of the clock signal by a first frequency - dividing ratio when the portable mode signal is supplied from the mode detecting circuit 8 and the calling signal detection signal is supplied from the signal receive detecting circuit 7 . On the other hand , when the mobile mode signal and the calling signal detection signal are supplied , the frequency divider 83 divides the clock signal by a second frequency - dividing ratio . The counter 84 is used as a decoder for assigning addresses for ROM 85 and the output of counter 84 when counted with the first frequency - dividing ratio reads the pattern corresponding to the first ringing tone frequency stored in ROM 85 . On the other hand , the output of counter 84 when counted with the second frequency - dividing ratio reads the pattern corresponding to the second ringing tone frequency stored in ROM 85 . In this manner , the two kinds of ringing tone can be digitally produced .</p> <p>[7] According to the present invention , there is provided a portable telephone set having two use - modes , portable mode and mobile mode , and includes a mode detecting circuit for detecting the use - modes . Upon a call from a base station , a ringing circuit of the portable telephone set generates a ringing sound from an internal loudspeaker thereof when the portable mode is detected or from an external loudspeaker when the mobile mode is detected . In the portable mode , the ringing circuit produces a first ringing signal having a frequency spectrum adjusted to frequency characteristics of the internal loudspeaker and , in the mobile mode , produces a second ringing signal having a frequency spectrum adjusted to frequency characteristics of the external loudspeaker . The ringing circuit may include two ringing signal generating circuits which generate the first and second ringing signals , respectively . Further , the ringing circuit may include a single ringing signal generating circuit which generates the first or second ringing signal depending upon the use - mode detected . When the external loudspeaker is connected to the telephone set , an input terminal of the mode detecting circuit is grounded simultaneously and this grounding signal can be used as the detection signal of the mode detection circuit .</p>

在本篇專利的請求項技術特徵與標的專利都比對到的關鍵字會用顏色標示。

FW 此請求項用語已在申請階段、再審查與複審歷程中被揭露。

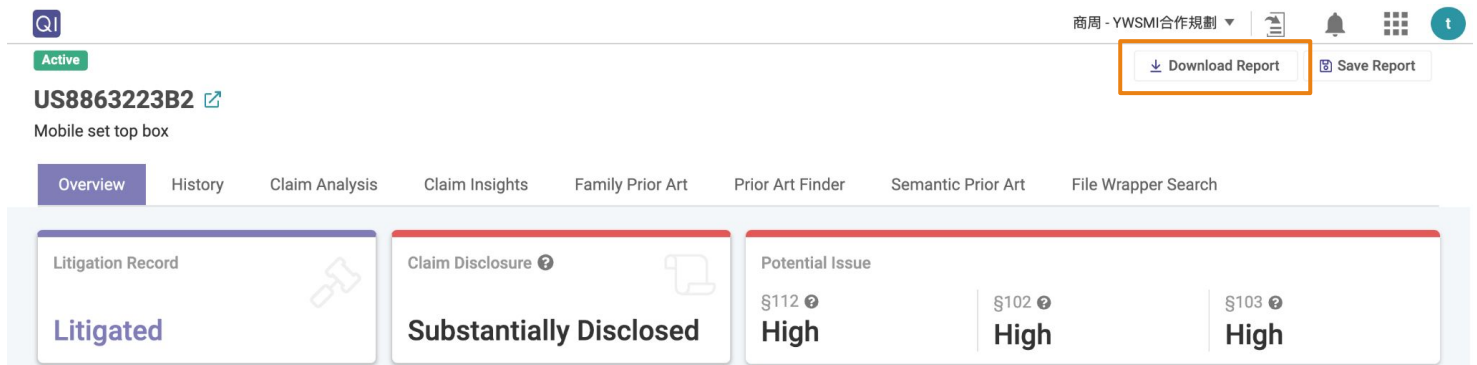
PA Prior Art, 此關鍵字在此標的前案出現。

若需查看更多前案解析資訊，請查看Patentcloud的幫助中心。

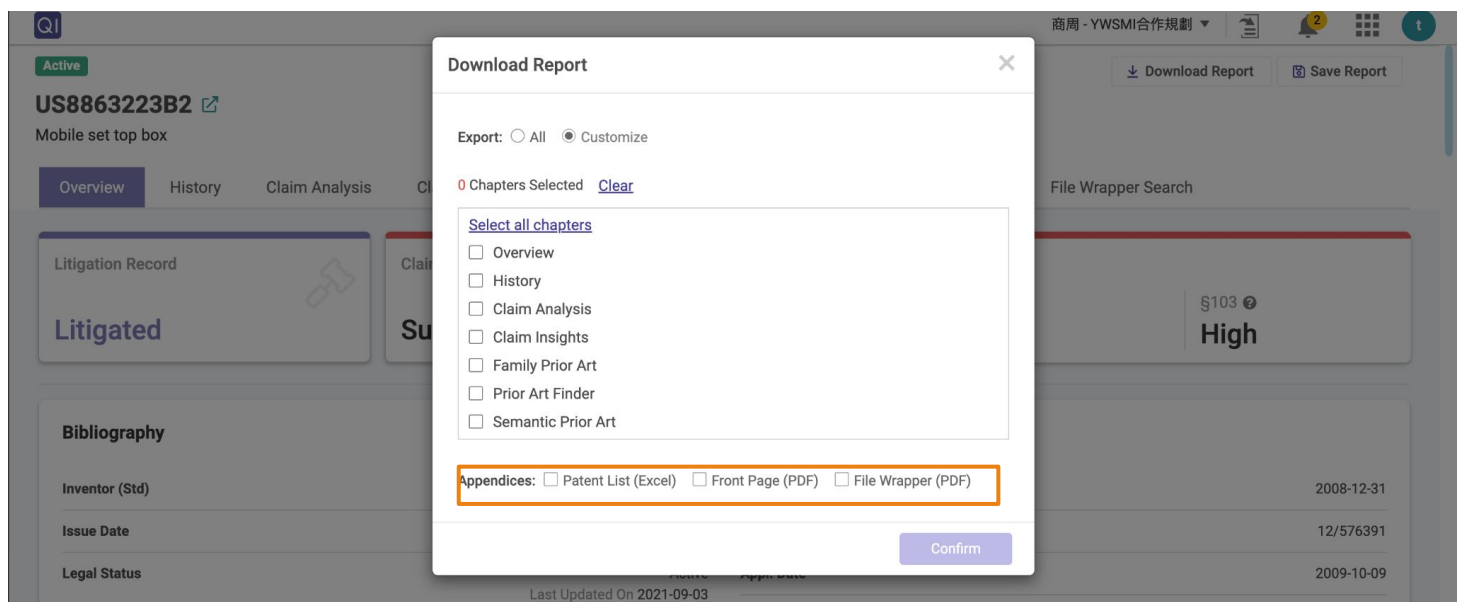
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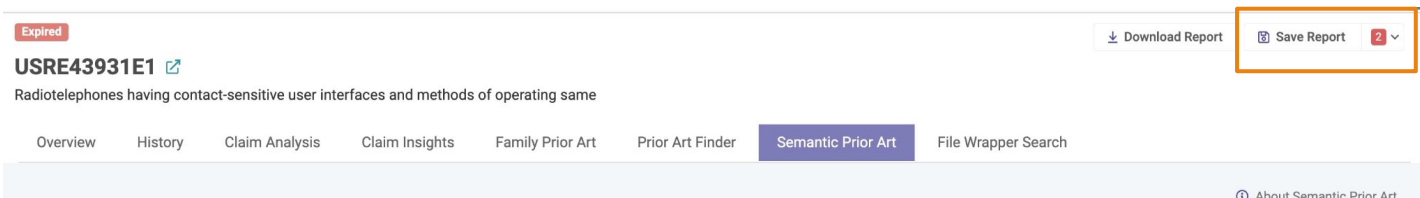
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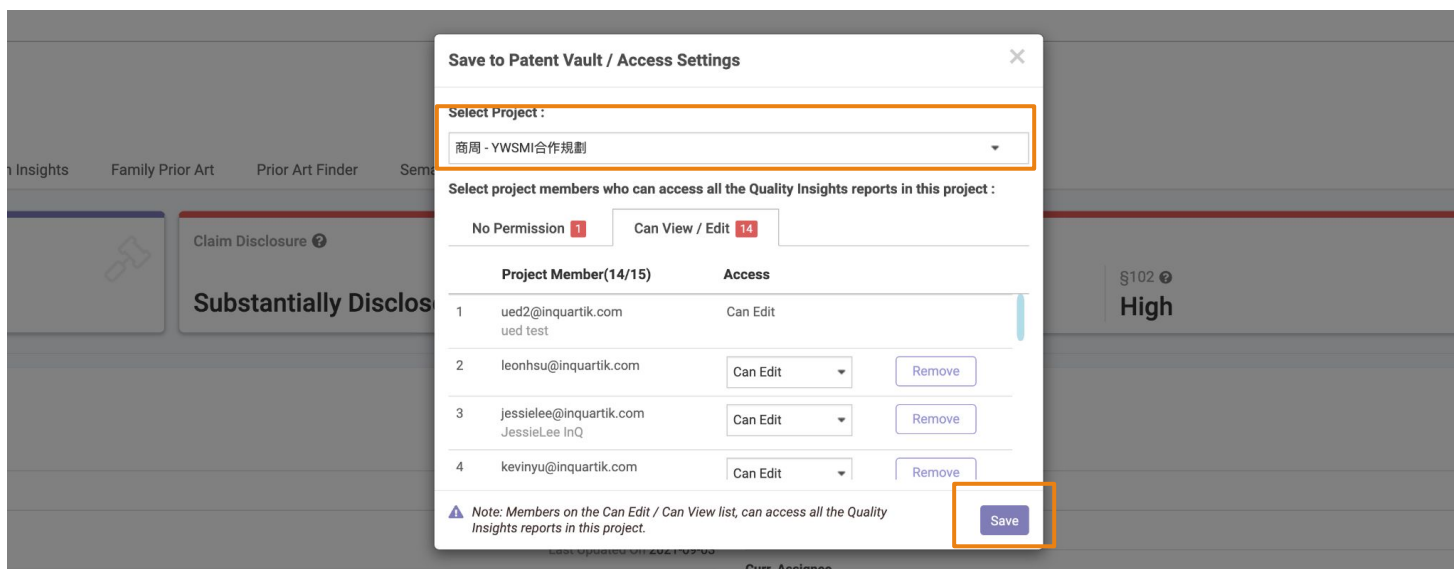
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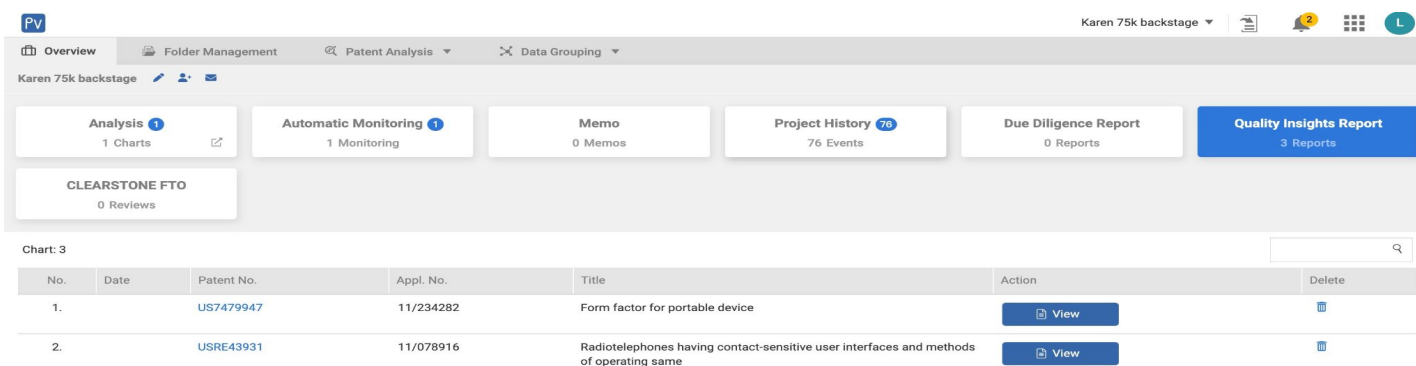


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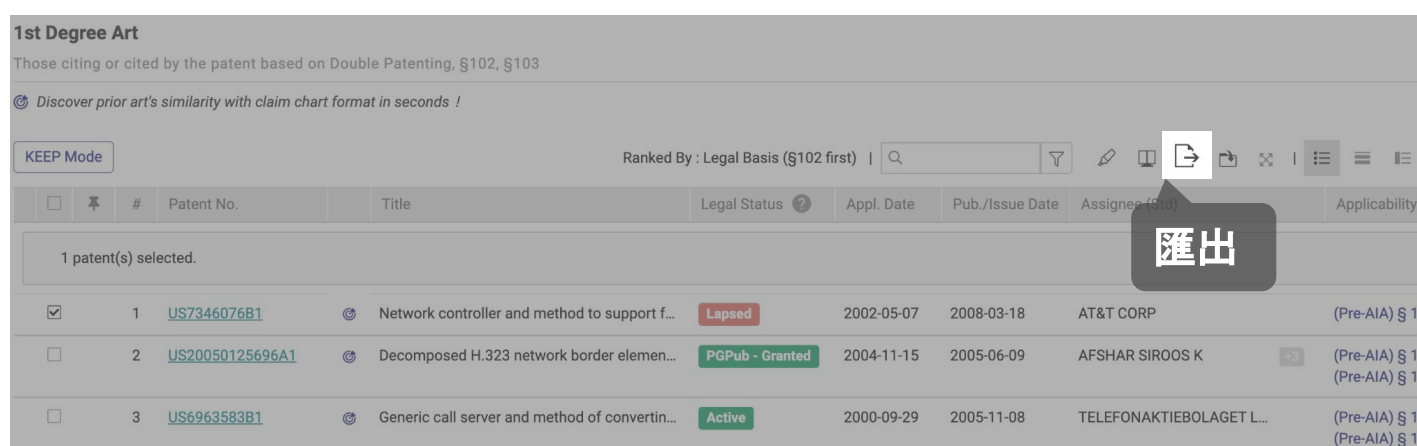


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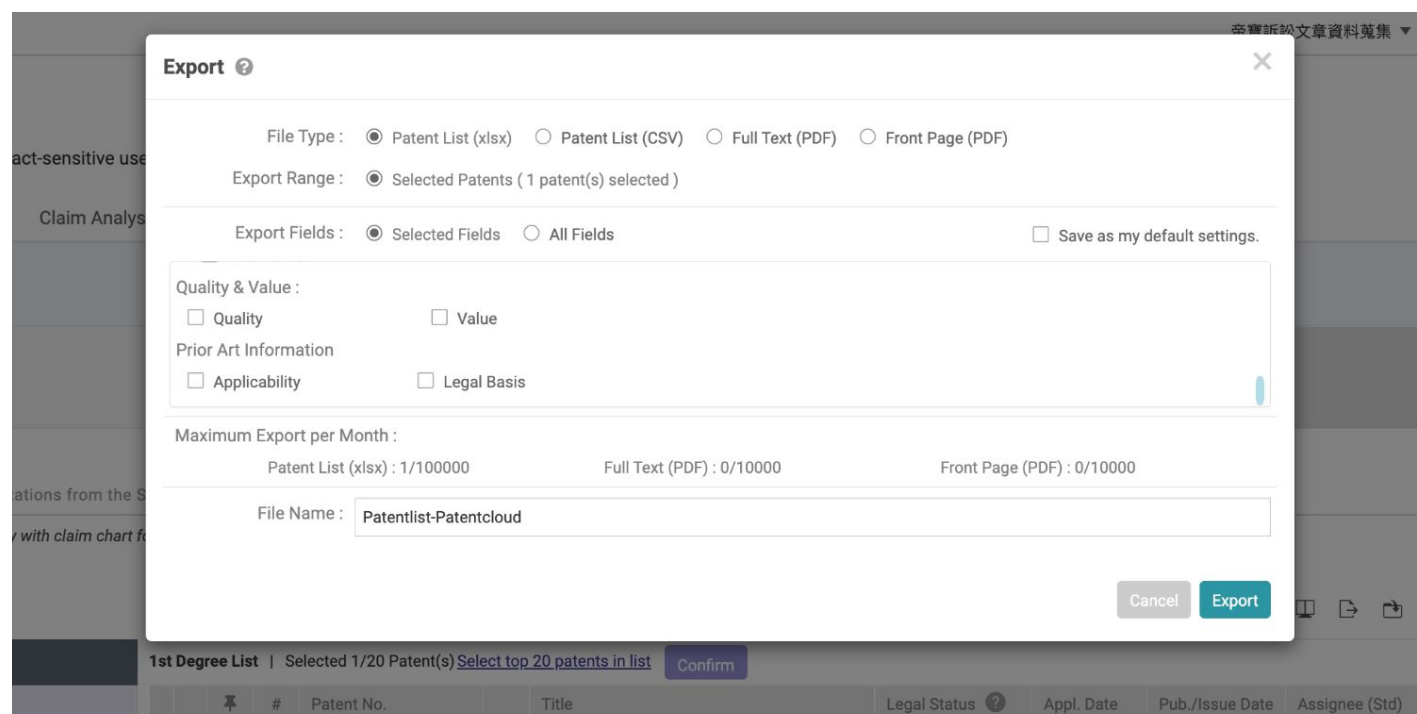
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<input checked="" type="checkbox"/>	1	US7346076B1	Network controller and method to support f...	Lapsed	2002-05-07	2008-03-18	AT&T CORP	(Pre-AIA) § 1
<input type="checkbox"/>	2	US20050125696A1	Decomposed H.323 network border elemen...	PGPub - Granted	2004-11-15	2005-06-09	AFSHAR SIROOS K	(Pre-AIA) § 1 (Pre-AIA) § 1
<input type="checkbox"/>	3	US6963583B1	Generic call server and method of convertin...	Active	2000-09-29	2005-11-08	TELEFONAKTIEBOLAGET L...	(Pre-AIA) § 1 (Pre-AIA) § 1

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<input type="checkbox"/>	1	US7031477B1	Voice-controlled system for providing digita...	Lapsed	2002-01-25
<input type="checkbox"/>	2	US2001002871A1	Audio system and its contents reproductio...	PGPub - Granted	2001-04-09
<input type="checkbox"/>	3	US20040117442A1	Handheld portable wireless digital content ...	Abandoned Appl.	2003-12-08
<input type="checkbox"/>	4	US20030224726A1	Bluetooth cassette-like device for a hands-f...	PGPub - Granted	2002-05-15

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Active

US8155342B2

Multimedia device integration system

Overview | History | Claim Analysis | Claim Insights | Family Prior Art | Prior Art Finder | Semantic Prior Art | File Wrapper Search

Litigation Record

Litigated

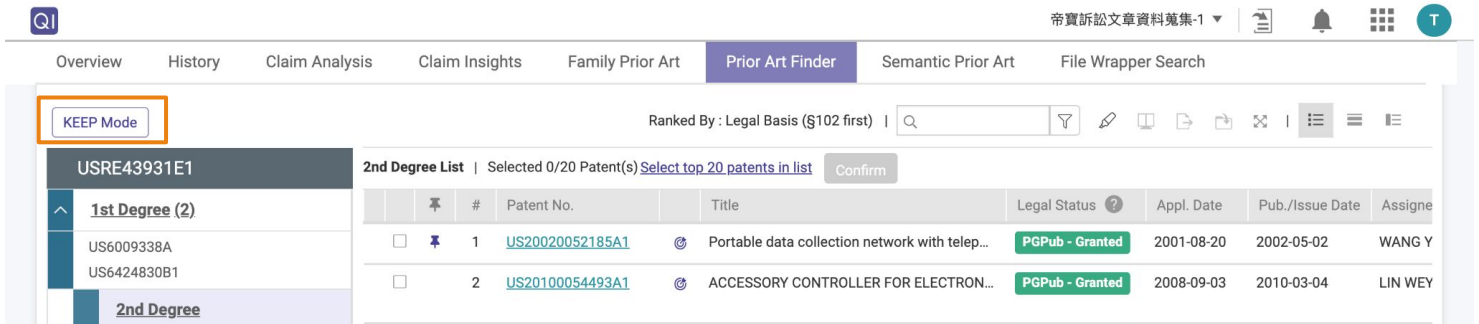
Claim Disclosure

Substantially Disclosed

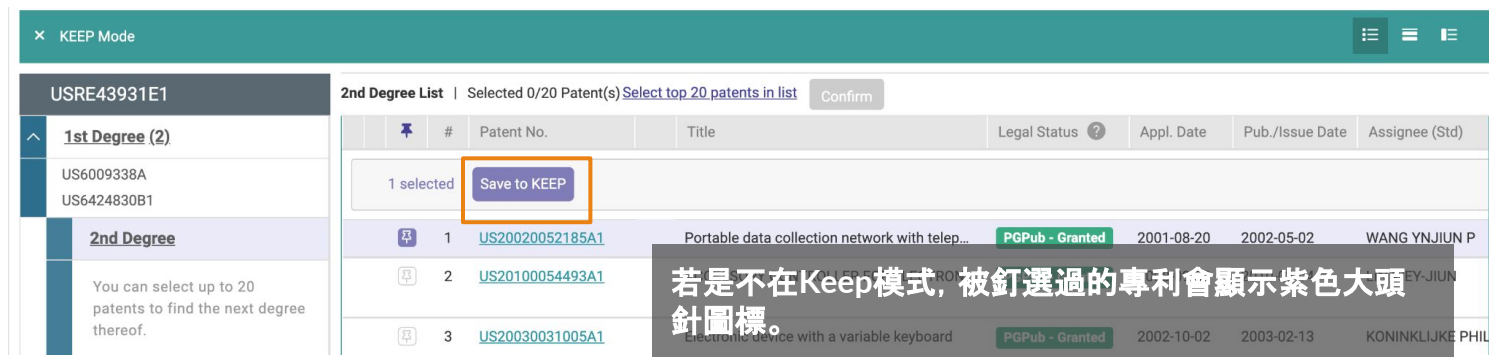
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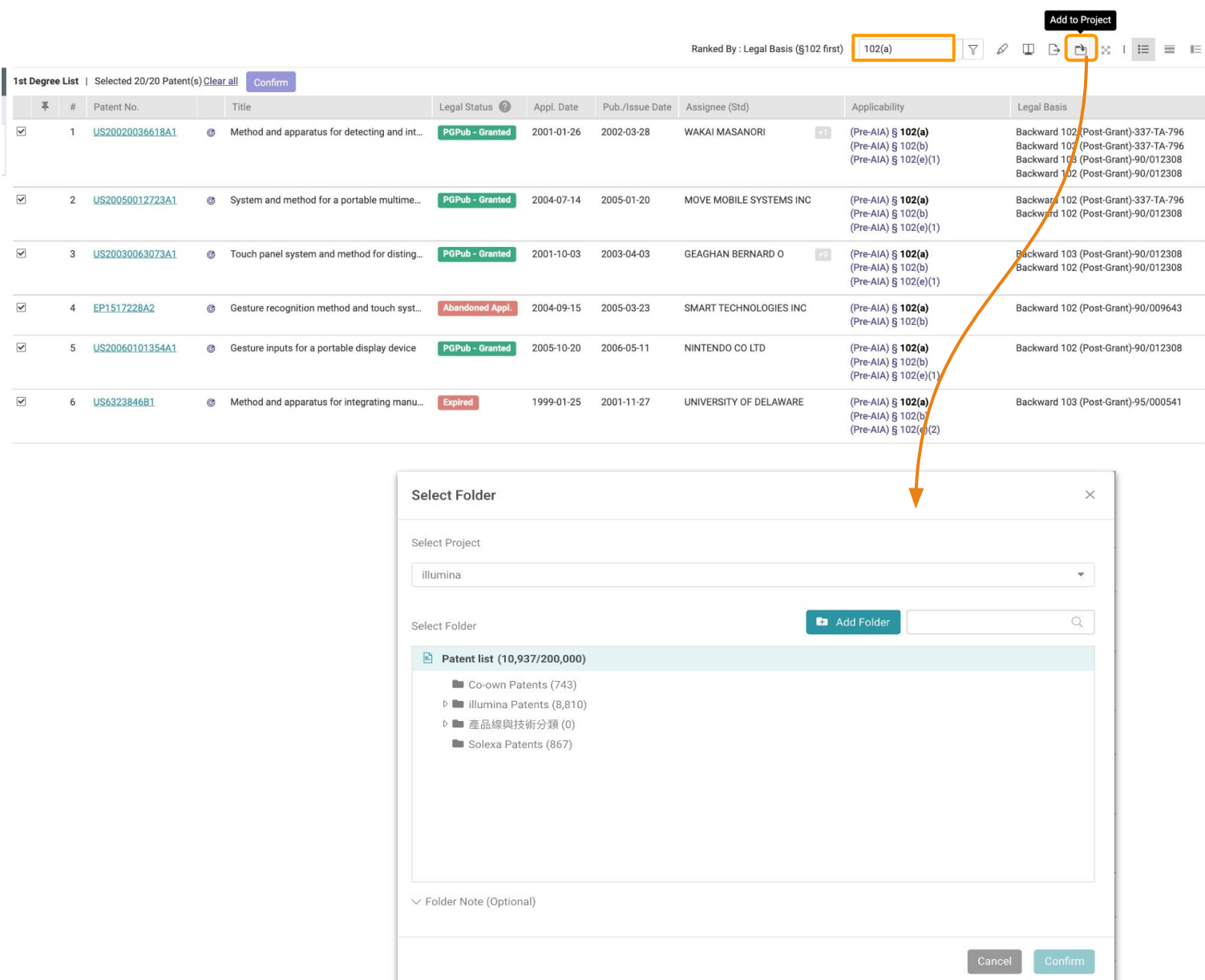
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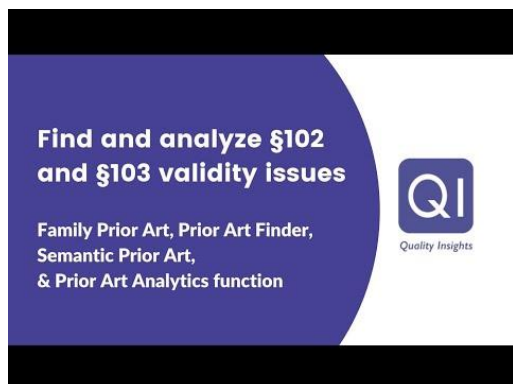
#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability	Legal Basis
1	US200200336518A1	Method and apparatus for detecting and int...	PGPub - Granted	2001-01-26	2002-03-28	WAKAI MASANORI	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)	Backward 102 (Post-Grant)-337-TA-796 Backward 102 (Post-Grant)-337-TA-796 Backward 103 (Post-Grant)-90/012308 Backward 102 (Post-Grant)-90/012308
2	US20050012723A1	System and method for a portable multime...	PGPub - Granted	2004-07-14	2005-01-20	MOVE MOBILE SYSTEMS INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)	Backward 102 (Post-Grant)-337-TA-796 Backward 102 (Post-Grant)-90/012308
3	US20030063073A1	Touch panel system and method for disting...	PGPub - Granted	2001-10-03	2003-04-03	GEAGHAN BERNARD O	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)	Backward 103 (Post-Grant)-90/012308 Backward 102 (Post-Grant)-90/012308
4	EP1517228A2	Gesture recognition method and touch syst...	Abandoned Appl.	2004-09-15	2005-03-23	SMART TECHNOLOGIES INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)	Backward 102 (Post-Grant)-90/009643
5	US20060101354A1	Gesture inputs for a portable display device	PGPub - Granted	2005-10-20	2006-05-11	NINTENDO CO LTD	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(1)	Backward 102 (Post-Grant)-90/012308
6	US6323846B1	Method and apparatus for integrating manu...	Expired	1999-01-25	2001-11-27	UNIVERSITY OF DELAWARE	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)	Backward 103 (Post-Grant)-95/000541



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