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# IPTECH- 教育訓練

公司單位：連穎國際股份有限公司

課程講師：田秀薇 經理



# 技術功效矩陣圖

	副作用低	安定性	改善吸收性	可溶性	增強作用	降低眼壓	增加靈敏度	方便傳輸
+ Intraocular Pressure	● 4			● 1	● 1	● 11		● 1
Ocular Implant	● 6	● 3				● 6		● 5
Schlemm's Canal	● 3	● 1				● 1		● 4
Sustained Release	● 1	● 1	● 1					
Pharmaceutical Composition	● 1	● 2	● 1			● 2		
Therapeutic Treatment		● 1						
Amino Acid					● 1			

# 1.站台資訊

- 教育訓練站台：<http://trial.iptech.tw/>
- 教育訓練帳號/密碼：firdi20150729 / 1111



# 智能檢索-Smart Search



## 條件輸入

### 智能檢索流程

請選擇資料庫：

- 美國核准
  - 美國公開
  - 臺灣核准
  - 臺灣公開
  - 世界專利
- 歐盟核准
  - 歐盟公開
  - 中國專利
  - 日本專利

請輸入檢索關鍵字

關鍵字：

"multi touch"

AND

申請人：

Apple

Ex: "multi touch" 可利用布林邏輯運算元(AND、OR)進行查詢

Ex: APPLE 可利用布林邏輯運算元(AND、OR)進行查詢

專利號：

Ex: 07406608, 06347371

自動化檢索：使用者可直接輸入檢索關鍵字及指定申請人，系統自動協助快速查詢符合專利。

網址：<http://IPTECH.tw/>

一步到位

## 檢索結果產出



Finish : 檢索結果

專利檢索流程執行完畢，請檢視結果

總專利數：827

序號：公告日

1. 全文 查看影像

Liquid crystal display device and liquid crystal display apparatus  
公告號：08400411  
摘要：A liquid crystal display device includes first and second substrates arranged to face each other with a predetermined gap, and a liquid crystal layer sealed between the first and second substrates. The first substrate includes pixel

2. 全文 查看影像

Method and device for analyzing positions  
公告號：08400422  
摘要：A method and device for analyzing positions are disclosed. In sensing information, at least one position is determined according to a first characteristic of a touch related sensing information. The sensing information also has a touch related

3. 全文 查看影像

Method and device for analyzing positions  
公告號：08400423  
摘要：A method and device for analyzing positions are disclosed. In sensing information, at least one

4. 全文 查看影像

Method and device for analyzing positions  
公告號：08400424  
摘要：A method and device for analyzing positions are disclosed. In sensing information, at least one

# 主題確認

The screenshot shows the IPTech Intellectual Property Total Solution System interface. The top navigation bar includes tabs for '專利檢索' (Patent Search) and '專案管理' (Project Management). A search bar at the top contains the URL 'std.ltc.tw/Webpat/Search/Site/Scenario'. Below the search bar, there's a login field with 'ittest' and a 'Logout' button.

The main content area is titled '智能檢索流程' (Smart Search Process). It asks to choose a database, with options for USA Approved, USA Published, Taiwan Approved, Taiwan Published, EU Approved, EU Published, China Patent, Japan Patent, and World Patent. The 'USA Approved' option is selected.

A yellow box highlights the search input field under '2.1 輸入關鍵字' (Input Keyword), which contains the text 'multi touch'. This input field is also highlighted with a red rectangle.

Below the keyword input, there's an 'AND' operator and another search input field for '申請人' (Applicant) with the placeholder 'Ex: APPLE 可利用布林邏輯運算元(AND・OR)進行查詢'.

Under '2.2 按下「檢索」按鈕' (Press the 'Search' Button), the 'Search' button is highlighted with a red rectangle. The text below it says '自動化檢索：提供使用者可查詢到符合專利。' (Automated search: provides users with the ability to query for matching patents.)

At the bottom left, there's a note: 'Ex: 07406608, 06347371'.

The bottom right corner of the page has the text '關鍵字:Multi touch'.

# 檢索結果-一步到位

The screenshot shows the IPTech patent search interface. At the top, there's a toolbar with buttons for back, forward, search, and options. Below it is a header bar with the IPTech logo, a search input field containing 'Itest', and buttons for '專利檢索' (Patent Search) and '專案管理' (Case Management). A message in Chinese asks if the user wants to translate the page content.

In the center, there's a progress bar titled 'Finish 檢索結果 Result' showing 572 results. To the left, there's a 'Modify Automation Search Name' dialog box with a note that only the first 300 results can be searched due to WEBPAT platform restrictions. It includes fields for saving to a new case ('新專案') or an existing case ('已存在的專案'), a 'New Case Name' input field containing 'multi touch', and a 'Patent Database' dropdown set to '美國核准'. A yellow callout box labeled '3.1 輸入主題名稱' points to the 'New Case Name' field.

On the right, there's a detailed view of a patent document. The document title is 'Method and device for analyzing positions'. It includes a barcode, a summary in Chinese, and a detailed description in English. A yellow callout box labeled '3.2 按下『儲存』按鈕即可儲存歷程' points to the 'Save' button at the bottom of the dialog box.

# 專利檢索-智能檢索

Step1 關鍵字 or 競爭公司 or Seed Patent

Step2 專利家族

Step3 申請人+發明人

Step4 (專利前/後引證)+分類號

Step5 關鍵字/分類號/申請人

Step6 (分類號/關鍵字)+發明人

Step1  
關鍵字

Step2  
專利家族

Step3  
申請人+  
發明人

檢索步驟的標的

檢索條件

家族專利值

申請人值

發明人值

前引證專利值

後引證專利值

分類號值

技術關鍵字值

分類號值

申請人值

技術關鍵字值

分類號值

發明人值

Step4  
(專利前/後引證)  
+分類號

Step5  
關鍵字/分類號  
/申請人

Step6  
(分類號/關鍵字)  
+發明人

Step7  
檢索完成

# 智能檢索頁面展示



關鍵字

專利家族

申請人+發明人

引證

申請人+關鍵字+分類號

(發明人/審查員)+(關鍵字/分類號)

檢查結果

**美國核准** [返回檢索](#) [上一步](#) [下一步](#)

步驟	步驟說明	數量
Step1 關鍵字	關鍵字	25
Step2 家族專利	家族專利	25
Step3 申請人+發明人	申請人+發明人	2
Step4 引證	BW / FW/Citation+Code	31
Step5 申請人+關鍵字+分類號	AN+KW+Code	241
Step6 (發明人/審查員)+(關鍵字/分類號)	(IN / Exam.)+(KW / Code)	549
		821

Step6 發明人/審查員+關鍵字/分類號：依據Step5之係留專利，篩選前5名之發明人、審查員、關鍵字、專利分類號，組成新檢索條件，加入(發明人/IN)+(關鍵字/KW)+(分類號/Code)。

新增專利：4

階段查詢：第 1 至 1 頁 [編輯](#)

**隱藏**

**申請人**

- Apple Inc. (8 | 2)
- AU Optronics Corp. (3 | 0)
- Microsoft Corporation (3 | 0)
- BYD Company, Ltd. (2 | 1)
- International Busine... (2 | 0)

[more...](#)

**發明人**

- Bae Sang Hyuck (2 | 0)
- Elias; John Greer (2 | 2)
- Feng Wei (2 | 2)
- Han Jefferson Y. (2 | 0)
- Hotelling; Steve (2 | 0)

[more...](#)

**關鍵字**

Liquid crystal display screen having carbon nanotubes

公告號：08384863

摘要：A liquid crystal display screen includes a first electrode plate, a first alignment layer, a liquid crystal layer, a second alignment layer, and a second electrode plate opposite to the first electrode plate. The liquid crystal layer is sandwiched between the first electrode

Method for crystal disp

公告號：01

摘要：A method for providing a substrate, manufacturing the same, comprising: providing a base; forming a nanotube layer on the base;

**分類號 (IPC)**

G06F 3/00 (666 | 0) G06F 5/00 (158 | 0) H03K 17/00 (3 | 0) H04R 1/00 (1 | 0) G06K 9/00 (1 | 0)

**刪除專利：0**

**檢查結果**

Liquid crystal display with carbon nanotube heating element

公告號：08081287

摘要：A liquid crystal display with at least one heating element located on at least one of a first substrate and a second substrate comprising at least one carbon nanotube structure.

Liquid crystal electrodes with carbon nanotubes

公告號：01

摘要：A liquid crystal electrode includes a first alignment layer, a liquid crystal layer, a second alignment layer, and a second electrode plate opposite to the first electrode plate. The liquid crystal layer is sandwiched between the first electrode

Method for making liquid

**剔除專利：0**

Step3 : 加入專利 - 申請人 + 發明人

新增專利：4

# 步驟說明：1.確認相關專利

此網頁為 英文 您要翻譯網頁內容嗎？ 翻譯 不需要 選項

IPTECH Intellectual Property Total Solution System

此網址為 std.ltc.tw/Webpat/Search/Site/Scenario

專利檢索 專案管理

ITtest (登出)

與本篇( 8384863 )相似之專利如下，請勾選擬欲刪除之專利

1. 主篇

Liquid crystal display screen having carbon nanotubes  
公告號： 08384863  
摘要： A liquid crystal display screen includes a first electrode plate, a first alignment layer, a liquid crystal layer, a second alignment layer, and a second electrode plate opposite to the first electrode plate. The liquid crystal layer is sandwiched between the

2.

Method for making liquid crystal display screen  
公告號： 08142838  
摘要： A method for making a liquid crystal display screen includes the steps of: providing a base comprising a surface; manufacturing a substrate, wherein manufacturing a substrate comprises: placing a carbon nanotube layer on the surface of the base, the

1.4系統推薦刪除專利群

Delete Close

# 步驟說明：2.搜尋相關專利

IPTech std.ltc.tw/Webpat/Search/Site/Scenario

此網頁為 英文 您要翻譯網頁內容嗎？ 翻譯 不需要 選項

IPTECH Intellectual Property Total Solution System

步驟說明

美國核准 Step2

Step1 關鍵字 Keyword 25

Step2 家族專利 Parent Case 25

Step3 +發明人 Inventor 27

Step4 引證 BRI / FTO Citation+Code 4 31 241

Step5 申請人+關鍵字+分類號 AN+K00+Code 272 300

Step6 發明人/審查員+ (關鍵字/分類號) (IN / Exam.)+ (K0 / Code) 300

Finish 檢索結果 Result 300

② Step2. 家族專利. 依據Step1之保留專利，擴充檢索專利家族資料庫，加入家族專利。

Step2：加入相關專利 - 專利家族

新增專利：2 剔除專利：0

2.1系統自動搜尋與本案相關之母案及子案

Multipoint touchscreen 公告號：07663607 摘要：A touch panel having a transparent capacitive sensing medium configured to detect multiple touches or near touches that occur at the same time and at distinct locations in the plane of the touch panel and to produce distinct signals representative of the location of the touches on the plane

Multi-touch system and method for emulating modifier keys via fingertip chords 公告號：06570557 摘要：A multi-touch system is disclosed that recognizes simultaneous touchdown of four fingers on, above, or below the home row of keys as a modifier chord and applies modifiers such as Shift, Ctrl, or Alt to

# 步驟說明：3.加入專利-申請人 + 發明



# 步驟說明：4.加入專利-前後引述



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The screenshot shows the IPTECH system's search interface. A red box highlights the left sidebar where '前引證專利' (Prior Patent Citations) and '後引證專利' (Post Patent Citations) checkboxes are selected. Another yellow box highlights the '4. 檢索前後引證專利' (Search for Prior and Post Patent Citations) button. The main area displays the 'Step 4: 加入專利 - 前後引證專利 + 分類號' (Add Patent - Prior and Post Patent Citations + Classification Number) step, which has found 241 results. Below this, a table lists four patent documents with their titles, application numbers, and abstracts. The first document is a 'Liquid crystal display device and liquid crystal display apparatus' (公告號: 08400411). The second is a 'Method and device for analyzing positions' (公告號: 08400422).

# 步驟說明：5.加入專利-申請人+關鍵字+分類號

Step5 : 加入專利 - 申請人 + 關鍵字 + 分類號

新增專利 : 300

隱藏 檢索 專案管理

**申請人**

- Apple Inc.
- Hon Hai Pre
- Tsinghua University (27 | 0)
- SMART Technologi... (19 | 0)
- Microsoft Corporat... (8 | 193)
- more...

**關鍵字**

- Sensor Panel (10 | 0)
- User Interface (9 | 109)
- Manual Input (7 | 0)
- Proximity Images (7 | 0)
- Row and Column (7 | 0)
- more...

**分類號 (IPC)**

- G06F 3 (211 | 266)
- G09G 5 (55 | 34)
- H03K 17 (2 | 0)
- H04R 1 (1 | 0)
- G06K 9 (1 | 0)
- more...

剔除專利 : 0

5.1 選擇「申請人」、「關鍵字」、「分類號」

5.2 按下「檢索」按鈕，依新檢索條件搜尋專利

/Site/Scenario

Site? 翻譯 不需要 選項 ×

Step5 申請人+關鍵字+分類號 AN+KW+Code

272 300

Step6 (發明人/審查員)+  
關鍵字(分類號) IN / Exam.+ (KW / Code)

Finish 檢索結果 Result

步驟說明：5.加入專利-申請人+關鍵字+分類號

第 1 之 30 頁 > 編輯 排序：公告日

全文 查看影像

Direct navigation of two-dimensional control using a three-dimensional pointing device

公告號：08384698

摘要：Direct and absolute pointing is provided for with respect to a two-dimensional information display surface, much like how one would point a laser pointer or flashlight at a desired point. The displayed control may be

全文 查看影像

User interface localization conflict indication

公告號：08386941

摘要：A method for indicating localization conflicts. The method includes receiving information about a first graphical user interface element and receiving information about a second graphical user interface element. Localization data

全文 查看影像

全文 查看影像

OrPendingRemove&StepType=Step6&ViewMode=ReadOnly&Site=Scenario&ScenarioProjectSN=830&SearchSite=Uspto...

# 步驟說明：6.加入專利-發明人/審查員+關鍵字/分類號

**6.1 選擇「發明人」「審查員」「關鍵字」「分類號」**

Step6 : 加入專利 - (發明人 / 審查員)  
+ (關鍵字 / 分類號)

新增專利 : 0

檢索 按鈕 (Red Box)

6.2 按下「檢索」按鈕，依新檢索條件搜尋專利

步驟說明圖示：

- Step3 申請人+發明人 AN+IN
- Step4 引證 BW / FW Citation+Code
- Step5 申請人+關鍵字 AN+KW+Code
- Step6 (發明人/審查員)+ (關鍵字/分類號) (IN / Exam.)+(KW / Code)

步驟查詢之專利結果集，請檢視。不適者，請剔除。

儲存

排序：公告日

刪除專利 : 0

# 步驟說明：7. 儲存檢索結果

The screenshot shows the IPTECH system interface. At the top, there is a navigation bar with back, forward, and search icons, and a message asking if the page content needs to be translated. Below the navigation bar is the IPTECH logo and a menu bar with '專利檢索' (Patent Search) and '專案管理' (Project Management). The main area displays a flowchart with six steps: Step 1 (Keyword) has 25 results; Step 2 (Parent Case) has 2 results; Step 3 (Applicant + Inventor AN+IN) has 27 results; Step 4 (Citation + Code) has 31 results; Step 5 (Applicant + Keyword + Classification AN+KW+Code) has 241 results; and Step 6 (Inventor / Examiner + Keyword / Classification IN / Exam. + KW + Code) has 572 results. A 'Finish' section shows the search results with a total of 572 items. On the left, a '儲存本專案' (Save Current Project) button is highlighted with a red box. A modal dialog box is open, prompting the user to enter a new project name ('新專案') or choose an existing one ('已存在的專案'). The '新專案' field contains the text 'multi touch'. The dialog also includes fields for '專利資料庫' (Patent Database) set to '美國核准' (Approved in the United States) and '備註' (Remarks). A yellow callout box labeled '7.1 輸入主題名稱' (Enter subject name) points to the '新專案' input field. Another yellow callout box labeled '7.2 按下『儲存』按鈕即可儲存歷程' (Press the "Save" button to save the process) points to the '儲存' (Save) button in the dialog.

# 檢索下載WEBPAT專利資料

- 萬用字元(Right Truncation) : \*
  - 只能加在查詢字串的右側，且字串中不能包含空白(ex: AN/“ General Mot\*” 並不能查詢出General motor)。
  - 範例：(elec\*)可查詢elec開頭的字串，例如：electricity, electric等。
- 國際專利分類號檢索(International Classification)
  - 範例：國際分類號G06F-07/38。
  - 第一階：關鍵字「G\*」。第二階：關鍵字「G06\*」。
  - 第三階：關鍵字「G06F\*」。第四階：關鍵字「G06F007\*」
  - 第五階：關鍵字「G06F007/38」

# 檢索條件

- 選擇資料庫：WEBPAT US Issued
- 檢索條件:( "multi touch" <IN> TTL ) OR ("multi touch" <IN> ABST) OR ("multi touch" <IN> CLMS )
- 資料庫：US-Issued

# 2.輸入檢索條件

**2.1 選擇美國核准資料庫**

IPTech x

iptech.tw/Webpat/Search/Site?name=webpat&currentsite=UsptoIssued

99.9 ms

TECH Intellectual Property Total Solution System

專利檢索 專案管理

首頁 > 專利檢索 > 站台檢索

Ittest (1) 檢索 清除 說明

**2.2 輸入檢索條件句**

WEWPAT 專利資料庫 ( US Issued 美國核准專利 )

布林檢索 進階檢索

檢索

OR "multi touch"  
Example: LED、"Digital Content"、nano\*

OR "multi touch"  
Example: LED、"Digital Content"、nano\*

OR "multi touch"  
Example: LED、"Digital Content"、nano\*

in Title

in Abstract

in Claim(s)

**2.3 選擇檢索欄位**

專利類型 (利用「Ctrl+滑鼠」點擊，即可複選專利類型)

- All Type
- Utility Patent
- Reissued Patent
- Design Patent

日期限制

公告 (公開) 日  申請日期

起  迄  Example: 2008/06/01

Official Websites

註註：查詢結果檢索建議依申請檢索機制。

**2.4 選擇邏輯運算符號**

**2.5 按下檢索按鈕**

# 3. 瀏覽檢索結果

**3.1 顯示檢索筆數**

1 - 50 共 149 筆

<input type="checkbox"/> 全選	編號	專利號	專利名稱
<input type="checkbox"/>	1	08332951	Section based security for a sectioned surface-based computing device
<input type="checkbox"/>	2	08332402	Location based media items
<input type="checkbox"/>	3	08330741	Multi-touch decoder for digital resistive screen overlay
<input type="checkbox"/>	4	08330730	Calibrating of interactive touch system for image compositing
<input type="checkbox"/>	5	08330727	Generating control signals from multiple contacts
<input type="checkbox"/>	6	08325192	Creating animations
<input type="checkbox"/>	7	08325181	Constraining motion in 2D and 3D manipulation
<input type="checkbox"/>	8	08325152	Touch panel with unbalanced conductive patterns, and touch-controlled apparatus and method for determining multi-touch thereof
<input type="checkbox"/>	9	08319744	Multi-touch resistive touch panel and detecting method
<input type="checkbox"/>	10	08314775	Multi-touch touch surface
<input type="checkbox"/>	11	08314722	Keyboard based in polymer, copolymer or composites with piezo- and/or pyroelectric properties and respective use
<input type="checkbox"/>	12	08294691	Waveguard touch panel

**3.2 如需修正檢索條件，可點選返回檢索**

**3.3 檢索結果下載並儲存專案**

# 4. 儲存專案



The screenshot shows the IPTECH system interface for saving a patent search result. The main window displays a search results table with columns for 全選 (Select All), 編號 (Number), and 專利號 (Patent Number). A red box highlights the 'multi touch-20121218' entry in the '新專案名稱' (New Project Name) field. Below the table, a navigation bar includes icons for back, forward, and search, along with the text '1 - 50 共'. The top menu bar has tabs for '專利檢索' (Patent Search) and '專案管理' (Project Management), with '專利檢索' currently selected. The URL in the address bar is 'http://test'.

**儲存專案**

資料來源: 本次檢索結果 (149)

儲存至: 新專案

新專案名稱: multi touch-20121218

專利資料庫: WEBPAT-US Issued

檢索條件: ("multi touch" <IN> TTL ) OR ("multi touch" <IN> ABST ) OR ("multi touch" <IN> CLMS )

備註:

**4.1 輸入專案名稱**

**4.2 儲存專案**

儲存 取消

# 5. 瀏覽專案



Screenshot of the IPTech Intellectual Property Total Solution System interface showing a list of projects.

The interface includes:

- Header: IPTech, URL: iptech.tw/Webpat/Project/Manage/Index
- Top navigation: 專利檢索, 專案管理
- Breadcrumb: 首頁 > 專案管理
- Buttons: 匯入專利, 合併專案, 指定群組, 說明
- Search bar: 專案類型 全部專案 檢索
- Table header: ID, 專案名稱, 擁有者, 專案進度, 最近瀏覽, 最近修改
- Table data (rows 71-80 of 1023):

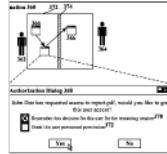
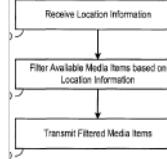
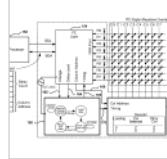
ID	專案名稱	擁有者	專案進度	最近瀏覽	最近修改
14310	(瑞鼎 <IN> AN )	ltest	77 / 77 / 77	2013/11/19	2013/11/18
14308	multi touch-3	ltest	26 / 26 / 26	2014/02/21	
14301	test1118	ltest	1 / 1 / 1	2013/12/27	2013/11/18
14300	(tridonic <IN> AN )-1118	ltest	60 / 60 /	2013/11/11	<b>5.1 專案基本資料</b>
14248	test merge	ltest	2 / 2 / 2	2014/02/19	2013/11/15
14247	test1115	ltest	61 / 61 / 61	2013/11/25	2013/11/15
14246	(Tridonic <IN> AN )	ltest	59 / 59 / 59	2013/11/19	2013/11/15
14245	宏正-ALL	ltest	20 / 20 / 20	2014/02/25	2013/11/15
14244	PDU-宏正	ltest	10 / 10 / 10	2013/11/15	2013/11/15
14243	PDA_宏正	ltest	10 / 10 / 10	2013/11/15	2013/11/15

- Annotations: A yellow box highlights "5.1 專案基本資料" and another yellow box highlights "5.2 檢視專利資料".

# 6.檢視專利列表

**6.1更換專利檢視模式，分為摘要模式、列表模式及圖式模式**

**6.2排序方式**

編號	首圖	公告(開)號	申請號	↑公告(開)日	申請日	名稱	申請人	國際分類號
1.		08332951	029627	2012/12/11	2008/02/12	Section based security for a sectioned surface-based computing device	International Business Machines Corporation	G06F007/04
2.		08332402	020202	2012/12/11	2008/01/25	Location based media items	Apple Inc.	G06F017/30
3.		08330741	549814	2012/12/11	2009/08/28	Multi-touch decoder for digital resistive screen overlay	Altera Corporation	G06F003/045
4.		08330730	200951	2012/12/11	2008/08/29	Calibrating of Imaging		G06F003/041

顯示專利首圖

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# 7.加值性檢索-前後引證

**7.1點選檢索引證專利**

IPTech - Windows Internet Explorer  
[http://iptech.tw/Webpat/ProjectPatent>List?sid=6b084b52-402a-4996-89c2-fb5fd32f432b](http://iptech.tw/Webpat/ProjectPatent/List?sid=6b084b52-402a-4996-89c2-fb5fd32f432b)

我的最愛 IPTech 專利檢索 專家管理 專利列表 專利分類 專利多階 管理面分析 技術面分析

目前專案: multi touch-20121218 首頁 > 專案管理 > 專利列表導覽 分類樹 資料快照 再檢索 檢索引證專利 檢索 Family 專利 另存至 備註

第 1 至 20 筆共 50 筆 7.1點選檢索引證專利 公告(開)日

編號	首圖	申請人	國際分類號
1.		International Business Machines Corporation	G06F007/04
2.		Apple Inc.	G06F017/30
3.		Corporation	F03/045
4.		Imaging	G06F003/041

檢索引證專利  
 依據 選取專利 本專案專利  
 以本專案全部的專利來檢索，本專案共 50 筆  
 檢索 後引證專利 前後引證專利 前引證專利 (1251)  
 檢索我可引證的專利。(Backward Citations)

備註 1. 我 = "本專案專利"

加入 取消

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**7.2可針對專案內資料進行前後引證檢索**



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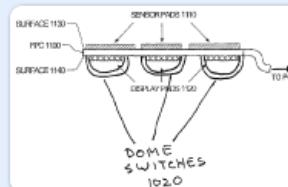


# 專利基本資料



# 專利詳細資料-基本資料

目前專案 : NCTU-US
雷達分析
Citation Tree
專利比對
專利摘要
說明



**來源站台**  
WEBPAT-US Issued

**其他申請案**  
公開號 20090179854

**專利相關資訊**

專利號	08125461
申請號	12/205,795
公告(開)日	2012/02/28
申請日	2008/09/05
專利類型	Utility

**申請專利範圍** 20  
**主權項次** 1  
**獨立項** 6  
**發明人** 4  
**專利權人** 1  
**專利家族** 1  
**其他公開號** 1

## Dynamic input graphic display

Overview Claim 分類樹 參考文件 0

摘要 說明 相關專利 推薦相關文章 自動摘要 引用資料 被以下專利引用

**專利基本資訊**

**摘要** 公開評論 0

An input device for providing dynamic displays is disclosed. The input device can modify the appearance and/or location of graphics associated with an input area of a device. For example, the input device can have a button layout that shifts based on the orientation of the electronic device relative to the user, such that the button layout is consistently presented to the user in an upright orientation. The input device can rotate and/or rename a button input area region depending on the context of an application running on the electronic device. The input device can display dynamic graphic content in an input area which is distinct from a display screen of the electronic device.

**專利權人** APPLE INC.

**原申請人** Apple Inc.

**發明人** Weber Douglas, Zadesky Stephen P., Ng Stanley C., Hodge Andrew B.

**國際 / 物品分類號** G06F 3/041

**Description ( G06F 3/041 )**

...以轉換方式為特點的數字轉換器，例如觸控式螢幕或觸控墊 )

more

小技巧：  
可點選此處查看IPC說明

# 專利詳細資料-Claim(s)分析

說明：  
 「Claim(s)」係就該專利進行Claim Tree樹狀圖的分析。

Step1.請點選「Claim(s)」

Step2.點選「匯出Claim Chart」，將Claim Chart匯出成Excel

顯示Claim Tree樹狀圖

Claim Tree

- 1. C1 A digital signal processing method, comprising:
- 2. C2 The method as recited in claim 1 wherein:
- 3. C3 The digital signal processing method as recited in claim 2, wherein:
- 4. C4 The digital signal processing method as recited in claim 3, wherein:
- 5. C5 The digital signal processing method as recited in claim 4, wherein:
- 6. C6 The digital signal processing method as recited in claim 5, wherein:
- 7. C7 The digital signal processing method as recited in claim 6, wherein:
- 8. C8 The digital signal processing method as recited in claim 7, wherein:
- 9. C9 The digital signal processing method as recited in claim 8, wherein:
- 10. C10 The digital signal processing method as recited in claim 9, wherein:
- 11. C11 A computer system comprising:
- 12. C12 The computer system as recited in claim 11, wherein:
- 13. C13 The computer system as recited in claim 12, wherein:
- 14. C14 The computer system as recited in claim 13, wherein:
- 15. C15 The computer system as recited in claim 14, wherein:
- 16. C16 A non-transitory computer readable medium, comprising:
- 17. C17 The non-transitory computer readable medium as recited in claim 16, wherein:
- 18. C18 The non-transitory computer readable medium as recited in claim 17, wherein:
- 19. C19 The non-transitory computer readable medium as recited in claim 18, wherein:
- 20. C20 The non-transitory computer readable medium as recited in claim 19, wherein:
- 21. C21 The non-transitory computer readable medium as recited in claim 20, wherein:

Claim(s)

What is claimed is:

1. A digital signal processing method, comprising:

A	B	C	D	E	F
專利號：	7190811	分析標的1	分析標的2	分析標的3	分析標的4
獨立項數：	3				
	1. A computer-based method for identifying representations of a first object in at least three images including a first, second and third image comprising a collection of pixels, wherein a position of the first object in the at least three images is different, the method comprising:				
	(a) determining a first difference in values between the first image and the second image at a pixel location;				
	(b) assigning a first sign associated with the first difference;				
	(c) repeating steps (a) - (b) for each of a first set of pixel locations in the first image and the second image;				
	(d) determining a second difference in values between the second image and the third image at the pixel location;				
	(e) assigning a second sign associated with the second difference;				
	(f) repeating steps (d) - (e) for each of the first set of pixel locations in the second image and the third image; and				
	(g) identifying the pixel locations where the first sign and the second sign associated with each of the pixel locations have a first pattern.				

# 專利詳細資料-Image

**IPTECH** Intellectual Property Total Solution System

專利檢索 專案管理 專利列表 專利篩選 多階分類 管理面分析 技術面分析 報告產生器

Ittest (1) 鑰匙圖示

目前專案 : NCTU-US

首頁 > 專利詳細資料

雷達分析 Citation Tree 專利比對 專利摘要

說明

Page 1

**Step2. 點選圖示可匯出專利全文影像**

**RECEIVE RAW DATA**

**FILTER RAW DATA**

**GENERATE GRADIENT DATA**

**CALCULATE BOUNDARIES FOR REGIONS**

**CALCULATE COORDINATES FOR TOUCH REGION**

**PERFORM MULTIPONT TRACKING**

**來源站台**

**WEBPAT-US ISSUES**

**其他申請案**

公開號 200

**專利相關資訊**

專利號 1

申請號 2

公告(開)日 2008/11/07

申請日 2008/11/07

**United States Patent**  
Day et al.

(10) Patent No.: US 8,120,371 B2  
(45) Date of Patent: Feb. 21, 2012

**(54) OBJECT POSITION SENSING APPARATUS**

(75) Inventors: **Shawn P. Day**, San Jose, CA (US); **David Ely**, Cambridge (GB); **Bob L. Mackey**, San Jose, CA (US)

(73) Assignee: **Synaptics, Inc.**, Santa Clara, CA (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 908 days.

(21) Appl. No.: 12/163,678  
(22) Filed: Jun. 27, 2008

(65) Prior Publication Data  
US 2009/0322355 A1 Dec. 31, 2009

(51) Int. Cl.  
**G01R 27/26** (2006.01)  
**G06F 3/041** (2006.01)

(52) U.S. Cl. .... 324/661; 324/663; 345/173

(58) Field of Classification Search .... 324/661, 324/663; 345/173

See application file for complete search history.

(56) References Cited

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7,265,886 B2	9/2007	Hurst et al.
7,423,635 B2*	9/2009	Taylor et al.
2004/0135775 A1	7/2004	Hurst et al.
2005/0012644 A1	1/2005	Hurst et al.

345/174

FOREIGN PATENT DOCUMENTS

EP 2045698 4/2009

OTHER PUBLICATIONS

ISA/KR, International Search Report and Written Opinion for International Application No. PCT/US2010/048319, 11 pages, Apr. 28, 2011.

\* cited by examiner

Primary Examiner — Amy He

(57) ABSTRACT

An object position sensing apparatus including a substrate, a conductive crossbar, and a plurality of resistive elements coupled to the crossbar is described. The resistive elements are coupled to circuitry that can apply an excitation signal, such as a voltage change, to the resistive elements. For each resistive element, an electrical effect responsive to the excitation signal, such as a change in charge flowing to the resistive element, is determined. When an object is proximate to the plurality of resistive elements, the electrical effects change, and a position of the object in one or multiple dimensions can be determined from changes in the electrical effects.

33 Claims, 13 Drawing Sheets

100 CROSSBAR 115 SUBSTRATE 120



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# 輔助專利篩選



# 專利篩選-輔助篩選



Screenshot of the IPTech Intellectual Property Total Solution System interface showing a list of patent cases.

The interface includes:

- Three tabs at the top: 專利檢索 (Patent Search), 專案管理 (Project Management), and the active tab 專利篩選 (Patent Screening).
- A breadcrumb navigation: 首頁 > 專案管理.
- Buttons: 新增專案 (New Project), 合併專案 (Merge Project), and 指定群組 (Specify Group).
- Search filters: 專案類型 (Case Type) set to 全部專案 (All Projects), and a 檢索 (Search) button.
- Page navigation: 第 1 - 10 筆共 735 筆 (Page 1 of 735), with back, forward, and search icons.
- Table of patent cases:

ID	專案名稱	擁有者	專案進度	最近瀏覽	最近修改
8040	epo_download_test	Ittest	36 / 44 / 44	2013/05/03	2013/05/03
8032	868376-申請號	Ittest	2 / 2 / 2	2013/05/03	2013/05/03
8031	北京小米	Ittest	1 / 1 / 1	2013/05/03	2013/05/03
8027	testded	Ittest	1751 / 1751 / 1751	2013/05/02	2013/05/02
8023	YM-0506-US	Ittest	96 / 96 / 96	2013/05/03	
8022	YM-0506	Ittest	122 / 122 / 122	2013/05/01	
8007	new	Ittest	19 / 19 / 19	2013/05/01	2013/05/01
8006	6	Ittest	26 / 26 / 26	2013/05/01	2013/05/01
8005	5	Ittest	20 / 20 / 20	2013/05/01	2013/05/01
8004	4	Ittest	90 / 90 / 90	2013/05/03	2013/05/01

# 專利篩選 專利資料檢視

關鍵字  
分類篩選

年份  
分類篩選

申請人  
分類篩選

專利  
篩選

IPC  
分類篩選

國家別  
分類篩選

發明人  
分類篩選

IPTech Intellectual Property Total Solution System

專利檢索 專案管理 專利列表 專利篩選 多階分類 管理面分析 技術面分析 報告產生器

目前專案: multi touch

系統分類觀點 ClusterMap

選擇節點

第 1 至 10 筆共 51 筆 每頁 10 筆

User Interface (51)

Techniques and systems for enhancing touch screen device accessibility through virtual containers and virtually enlarged boundaries

公告(開)號 08386965

摘要: Techniques for increasing accessibility of touch-screen devices are disclosed. In one aspect, container regions on a touch-sensitive user interface of a touch screen device are defined. A touch event corresponding to a location on the

Receive a First Touch Event Corresponding to a First Location on the User Interface

Determine that the First Location Corresponds to the Physical Region of a Particular Container Region

Receive a Second Touch Input at a Second Location on the User Interface

Determining Content to Present to a User in Response to the Second Touch Event According to a Context of the First Container Region

Interactive image matting

公告(開)號 08386964

摘要: A user interface enables interactive image matting to be performed on an image. The user interface may provide results including

30



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# 專利多階



# 專利多階



Screenshot of the IPTech Intellectual Property Total Solution System interface, specifically the Project Management module.

The top navigation bar shows three tabs: 專利檢索 (Patent Search), 專案管理 (Project Management), and another unlabeled tab. The current view is under the Project Management tab, showing the path 首頁 > 專案管理.

Below the navigation is a search bar with fields for 專案類型 (Case Type) set to 全部專案 (All Cases), 檢索 (Search), and a dropdown for 每頁 (Items per page) set to 10. There are also buttons for 新增專案 (Add New Case), 合併專案 (Merge Case), and 指定群組 (Specify Group).

The main content area displays a table of cases:

ID	專案名稱	擁有者	專案進度	最近瀏覽	最近修改
8040	epo_download_test	lttest	36 / 44 / 44	2013/05/03	2013/05/03
8032	868376-申請號	lttest	2 / 2 / 2	2013/05/03	2013/05/03
8031	北京小米	lttest	1 / 1 / 1	2013/05/03	2013/05/03
8027	testded	lttest	1751 / 1751 / 1751	2013/05/02	2013/05/02
8023	YM-0506-US	lttest	96 / 96 / 96	2013/05/03	
8022	YM-0506	lttest	122 / 122 / 122	2013/05/01	
8007	new	lttest	19 / 19 / 19	2013/05/01	2013/05/01
8006	6	lttest	26 / 26 / 26	2013/05/01	2013/05/01
8005	5	lttest	20 / 20 / 20	2013/05/01	2013/05/01
8004	4	lttest	90 / 90 / 90	2013/05/03	2013/05/01

A yellow callout box with the text '點選專利多階' (Select Patent Multi-Step) points to the icon in the last column of the table row for case ID 8023.

# 分類樹建立/管理



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目前專案 : multi touch 儲存分類結果 Excel 共 132 筆 說明

探勘分類 技術分類

multi touch  
觸控技術  
技術分類  
新分類  
複製分類

未指派 (132)

1 07030861 System and method for packing multi-touch gestures onto a hand  
2006/04/18  
IPC G09G00500  
未指派  
A multi-touch system is disclosed that compares finger arrangements at the beginning of multi-touch gestures and discriminates between neutral- and spread-hand performances. Gestures by the neutral- and spread-hand versions of each chord are then mapped to separate, but intuitively related cursor functions or sets of commands. Less-

3 07688328 Luminance point correction without luminance degradation  
2010/03/30  
Apple Inc.  
IPC G09G00502 G09G00336 H04  
未指派  
White point is corrected without degrading luminance on a display device. A white point manager modify the balance between red

# 節點建立/管理



**儲存分類結果**

**Excel**

**匯出** **匯入**

目前專案: multi touch

技術分類 (817)

- 新分類
- 複製分類
- 未指派 (132)

1 07030861 System and method for packing multi-touch gestures onto a hand

2006/04/18  
IPC: G09G00500  
未指派

A multi-touch system is disclosed that compares finger arrangements at the beginning of multi-touch gestures and discriminates between neutral- and spread-hand performances. Gestures by the neutral- and spread-hand versions of each chord are then mapped to separate, but intuitively related cursor functions or sets of commands. Less-

3 07688328 Luminance point correction without luminance degradation

2010/03/30  
Apple Inc.  
IPC: G09G00502 G09G00336 H04  
未指派

White point is corrected without degrading luminance on a display device. A white point manager modifies the balance between red, green and blue according to a target white point up to a threshold gray value. As the gray scale approaches white from the threshold gray value, the white point manager blends the balance between red, green and blue from the target

**儲存分類**

**匯出/匯入 Excel**

**儲存分類結果**

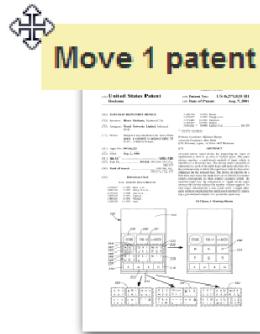
**從 Excel 備份**

**匯入 Excel**

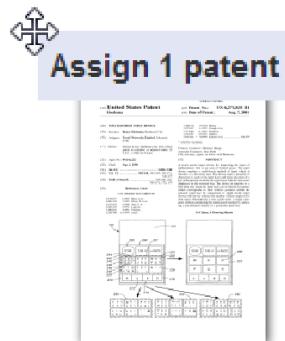
**新增分類**

**複製分類**

# 專利歸類管理



移動專利至指定節點



加入專利至指定節點

Move 1 patent

指定節點 移動節點

Touch Screen Display

3.刪除分類項目

60271835 Touch-screen input device  
2001/08/07  
Nortel Networks Limited  
IPC G09G00500  
Touch Input Touch Screen

A touch screen input device for improving the input of alphanumeric data in an area of limited space. The input device employs a multi-touch method of input which is intuitive to a first time user. The device maps a plurality of characters to each of its input keys and upon selection of a key subsequently re-labels the input

1.點選專利分類

分類

Touch Input

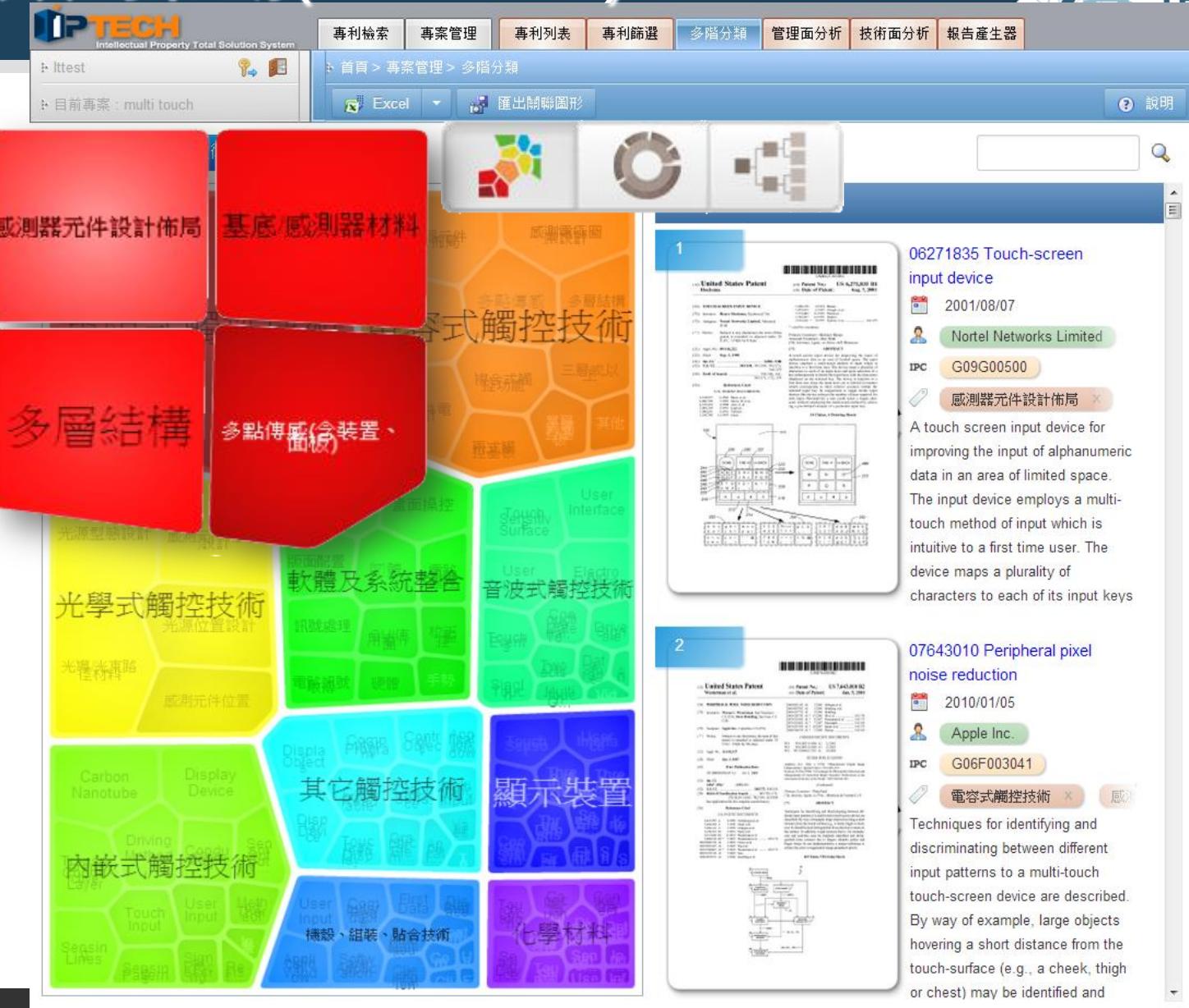
Touch Screen Display

Multi-touch Display D...

2.檢視所有分類



# 分類-探勘(Hive View)



# 多階分類-探勘(Circle View)

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**IP TECH** Intellectual Property Total Solution System

專利檢索 專案管理 專利列表 專利篩選 多階分類 管理面分析 技術面分析 報告產生器

目前專案: multi touch

探勘分類 技術分類

Excel 決出關聯圖形

說明

多階分類-探勘(Circle View) (155)

06271835 Touch-screen input device

Date: 2001/08/07  
Assignee: Nortel Networks Limited  
IPC: G09G00500  
Category: 感測元件設計局

A touch screen input device for improving the input of alphanumeric data in an area of limited space. The input device employs a multi-touch method of input which is intuitive to a first time user. The device maps a plurality of characters to each of its input keys.

07643010 Peripheral pixel noise reduction

Date: 2010/01/05  
Assignee: Apple Inc.  
IPC: G06F003041  
Category: 電容式觸控技術

Techniques for identifying and discriminating between different input patterns to a multi-touch touch-screen device are described. By way of example, large objects hovering a short distance from the touch-surface (e.g., a cheek, thigh or chest) may be identified and



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# 產出專利地圖分析-簡單又親切



# 專利管理面分析



# 管理面分析



Screenshot of the IPTech Project Management System interface.

The title bar shows three tabs: "IPTech" (active), "IPTech", and "IPTech". The URL in the address bar is "iptech.tw/Webpat/Project/Manage/Index".

The header includes the IPTech logo, a search bar, and navigation links: "專利檢索" (Patent Search) and "專案管理" (Project Management). Below this is a breadcrumb trail: "首頁 > 專案管理".

Toolbars include: "新增專案" (Add Project), "合併專案" (Merge Project), and "指定群組" (Assign Group).

Filter options: "專案類型" (Project Type) set to "全部專案" (All Projects), "檢索" (Search) input field, and a search button.

Table summary: "第 1 - 10 筆共 735 筆" (Rows 1 - 10 of 735 total). Navigation buttons: back, forward, first, last, and page size selector (每頁 10 筆).

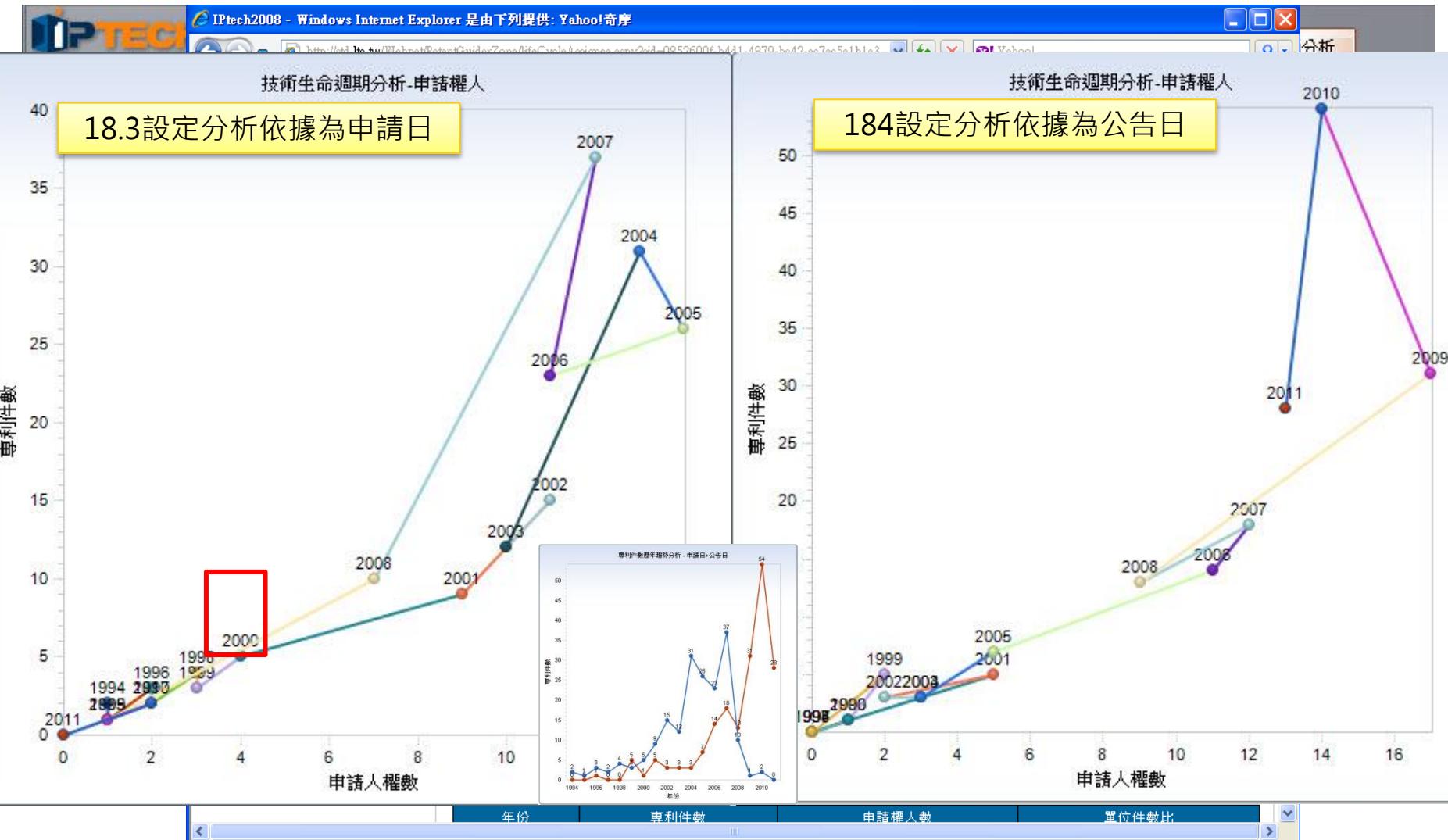
Table columns: "ID", "專案名稱" (Project Name), "擁有者" (Owner), "專案進度" (Project Progress), "最近瀏覽" (Recent Viewed), and "最近修改" (Last Modified).

Table data:

ID	專案名稱	擁有者	專案進度	最近瀏覽	最近修改
8040	epo_download_test	Ittest	36 / 44 / 44	2013/05/03	2013/05/03
8032	868376-申請號	Ittest	2 / 2 / 2	2013/05/03	2013/05/03
8031	北京小米	Ittest	1 / 1 / 1	2013/05/03	2013/05/03
8027	testded	Ittest	1751 / 1751 / 1751	2013/05/02	2013/05/02
8023	YM-0506-US	Ittest	96 / 96 / 96	2013/05/03	
8022	YM-0506	Ittest	122 / 122 / 122	2013/05/01	
8007	new	Ittest	19 / 19 / 19	2013/05/01	2013/05/01
8006	6	Ittest	26 / 26 / 26	2013/05/01	2013/05/01
8005	5	Ittest	20 / 20 / 20	2013/05/01	2013/05/01
8004	4	Ittest	90 / 90 / 90	2013/05/03	2013/05/01

A yellow callout box with the text "點選管理面分析" (Select to view management analysis) points to the analytics icon in the last row of the table.

# 18.技術生命週期分析-申請權人



# 19.專利件數分析-引證數據分析



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# 20.公司別分析-研發強度分析

**20.1研發強度分析**

研發強度分析

申請權人	專利件數	他人引證次數	自我引證次數	發明人數	所屬國數	平均專利年齡	活動年期	相對研發能力
Apple Inc.	54	9	21	54	1	1	5	78%
Microsoft Corporation	25	3	1	62	1	2	7	48%
Synaptics, Inc.	16	114	27	12	1	8	11	100%
Fujitsu Limited	8	0	0	8	1	4	2	10%
International Business Mac	8	7	1	16	1	3	6	18%

**20.2查看前五名申請權人研發強度各項數值**

# 21.公司別分析-排行榜

**21.3 設定分野年**

日期依據 公告日 起始 1984 終止 2013 分野年 2002 開始分析

2002 年前資料			2002 年後(包含)資料		
排名	申請權人	專利件數	排名	申請權人	專利件數
1	Pharmos Corporation	6	1	Glaukos Corporation	15
2	Alcon Laboratories, Inc.	3	2	Syntelis S.A.U.	12
2	Oculex Pharmaceuticals, Inc.	3	3	Dynogen Pharmaceuticals, Inc.	7
4	Hahn; Gary S.	2	4	Ivantis, Inc.	5
4	Knepper; Paul A.	2	5	Alcon Laboratories, Inc.	3
4	Liposome Technology, Inc.	2	6	Penwest Pharmaceuticals Co.	2
8	Visionex, Inc.	1	6	Dose Medical Corporation	2
8	Yeda Research and Development Co., Ltd.	1	9	Board of Regents of the University of Nebraska	1
8	Yisum Research Development Company of the Hebrew University of	1	9	Creighton University	1
			9	Epshtein; Oleg Illich	1

**21.2 選擇前五名申請權人**

申請權人 (專利件數)  
前 5 項

- Glaukos Corporation (15)
- Syntelis S.A.U. (12)
- Dynogen Pharmaceuticals (7)
- Alcon Laboratories, Inc. (6)
- Pharmos Corporation (6)
- Ivantis, Inc. (5)
- Oculex Pharmaceuticals (3)
- Astellas Pharma Inc. (2)
- Dose Medical Corporation (2)
- Hahn; Gary S. (2)
- Knepper; Paul A. (2)
- Liposome Technology (2)
- Penwest Pharmaceuticals (2)
- Visionex (2)
- Allergan (1)
- ALZA Corporation (1)
- Ares Trading S.A. (1)
- Board of Regents of the Hebrew University of (1)
- Curovo, Inc. (1)

# 專利技術面分析



# 22.技術功效矩陣圖

**22.1選擇技術分析圖表  
技術功效矩陣圖**

**22.2選擇橫軸分類**

**22.3選擇縱軸分類**

**22.4顯示23筆的專利號**



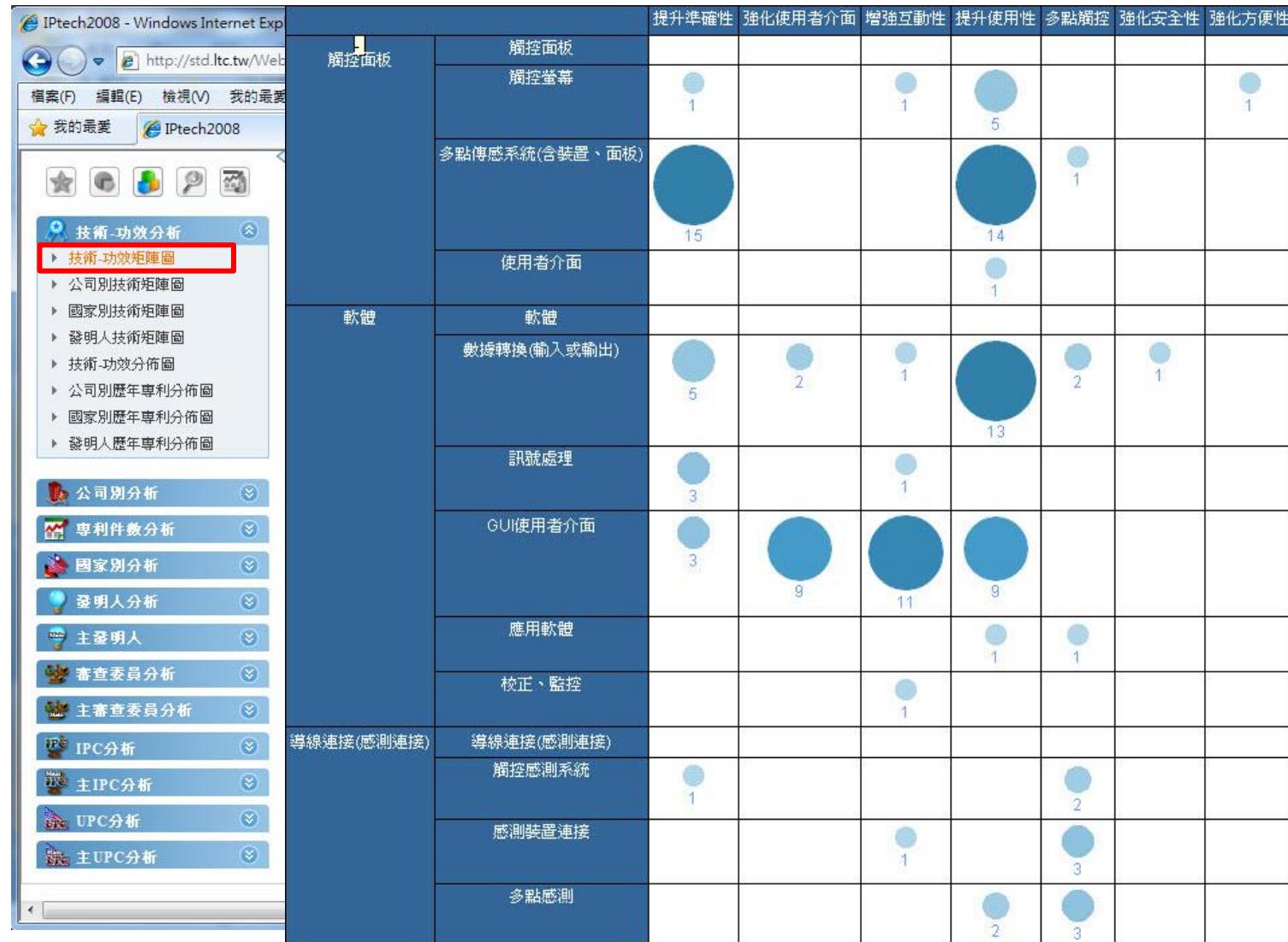
	提升準確性	強化使用者介面	增強互動性	提升使用性	多點觸控	強化安全性	強化方便性
觸控面板	16		1	20	1		1
軟體	11	10	15	23	3	1	
導線連接(感測連接)	1		1	2	8		

1 - 1 提升使用性 - 軟體

快速導覽 挑出 Excel

20080309624 20080026536 20080161870 20070177804 20070268273  
 20080036743 20080041639 20080128182 20080165140 20080204426  
 07656394 07705830 07840912 07855718 20060022956 20060026535  
 07339580 20080163130 20080211775 20080231610 07694231 07889184  
 07889185

# 23. 技術功效矩陣圖





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# 加值性輔助檢索



# 專利閱讀報告

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特色一  
閱讀報告  
欄項製作

特色二  
自動擷取  
專利對應欄位

特色三  
專利閱讀  
報告

## 專利分析呈大困難



(19) 中華民國智慧財產局  
(12) 發明說明書公開本 (11) 公開編號：TW 201214200 A1  
(43) 公開日：中華民國 101 (2012) 年 04 月 01 日  
  
(21) 申請案號：100128903 (22) 申請日：中華民國 100 (2011) 年 08 月 12 日  
(51) Int. Cl. : G06F3/01 (2006.01) G03B21/60 (2006.01)  
(30) 優先權：2010/09/24 美國 12/889,778  
(71) 申請人：微軟公司 (美國) MICROSOFT CORPORATION (US)  
(72) 發明人：拉吉提摩屋 LARGE, TIMOTHY (GB)  
(74) 代理人：蔡坤財；李世章  
申請實質審查：無 申請專利範圍項數：20 項 圖式數：8 共 35 頁

(54) 名稱：  
互動式顯示  
INTERACTIVE DISPLAY  
(57) 描述：

本案於此揭露關於互動式顯示的前投影。所揭露之一個實施例提供一種互動式顯示系統，該互動式顯示系統包括投影機和顯示螢幕，該顯示螢幕係配置以顯示由投影機所投影之影像，該顯示螢幕包括逆向反射層和置於逆向反射層上之散射層。該散射層係配置以散射地反射由投影機所發出之入射於散射層上的光之一部分，使得光的另一部分通過散射層且由逆向反射層反射回去而穿過散射層。互動式顯示系統亦包括攝影機，該攝影機係用以經由藉逆向反射層所反射之光而擷取顯示螢幕的影像，以經由影像辨識識別於投影機和顯示螢幕間所執行的使用者手勢。

### 發明專利說明書

(本說明書專式、稿式、傳力傳真式、傳記版和分離式複寫、自己傳真傳真者請註明)

※ 申請案號：100128903

※ IPC 分類：

G06F 3/01 (2006.01)  
G03B 1/60 (2006.01)

※ 申請日期：2011 年 8 月 12 日

一、發明名稱：(中文/英文)

互動式顯示

INTERACTIVE DISPLAY

四、指定代表圖：

(一) 本案指定代表圖為：第 ( ) 圖。

(二) 本代表圖之元件符號請參照：

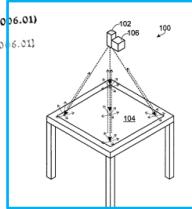
100 互動式顯示

投影機

顯示螢幕

攝影機

專利代表圖



### 七、申請專利範圍：

- 一種互動式顯示系統，該互動式顯示系統包括：  
一投影機；  
一顯示螢幕，該顯示螢幕係配置以顯示由該投影機所投影之影像，該顯示螢幕包括：  
一逆向反射層；及  
一散射層，該散射層置於該逆向反射層之上，該散射層係配置以散射地反射由該投影機所發出之入射於該散射層上的光；  
一攝影機，該攝影機係放置以從一位置處擷取該顯示螢幕的複數個影像，該位置係在該攝影機接收處由該逆向反射層所反射之光處；  
一邏輯子系統；及  
一資料儲存子系統，該資料儲存子系統儲存有由該邏輯子系統所可執行的複數個指令，以經由該攝影機而獲得複數個影像並經由該等影像而辨識執行於該投影機和該顯示螢幕間的一使用者手勢。

### 技術特徵

US7479949-Sample.pdf - Adobe Acrobat Pro

File Edit View Window Help

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

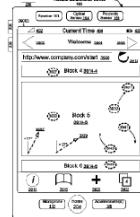
US 7479949	申請日：2008/04/11	公告日：2009/01/20
發明人(25) : Lamirau; Henri C.; Boule; Andre M. ....	IPC(2) : G09G005/00、G06F003/048	最早優先權日：2006/08/09 專利有效性：有效
專利權人(1) : Apple Inc.	IPC(4) : 345/173 - 345/169	專利權人(1) : Apple Inc. UPC(4) : 345/173 - 345/169
專利家庭(491) : AT0483196 - AT0506648、AT0532127、AT0535857、AU0759440、AU11201639、AU11201887、AU2467399、AU6291338、AU6295353、AU6295354、AU7283771、AU7286532、AU7289019、AU7292383、AU7292384、AU7292473、AU7342102、AU8100004、...		

先前技術 Many conventional user interfaces, such as those that include physical pushbuttons, are also inflexible. This may prevent a user interface from being configured and/or adapted by either an application running on the portable device or by users. When coupled with the time consuming requirement to memorize multiple key sequences and menu hierarchies, and the difficulty in activating a desired pushbutton, such inflexibility is frustrating to most users.

提升效果 Accordingly, there is a need for touch-screen-display electronic devices with more transparent and intuitive user interfaces for translating imprecise user gestures into precise, intended commands that are easy to use, configure, and/or adapt. Such interfaces increase the effectiveness, efficiency and user satisfaction with portable multifunction devices.

應用領域 The disclosed embodiments relate generally to electronic devices with touch screen displays, and more particularly, to electronic devices that apply heuristics to detected user gestures on a touch screen display to determine commands.

技術特徵 The above deficiencies and other problems associated with user interfaces for portable devices and touch screen devices are reduced or eliminated by the disclosed multifunction device. In some embodiments, the device is portable. In some embodiments, the device has a touch-sensitive display (also known as a "touch screen") with a graphical user interface (GUI), one or more processors, memory and one or more modules, programs or sets of instructions stored in the memory for performing multiple functions. In some embodiments, the user interacts with the GUI primarily through finger contacts and gestures on the touch-sensitive display. In some embodiments, the functions may include telephoning, video conferencing, e-mailing, instant messaging, blogging, digital photography, digital



# 專利閱讀報告

IPTech

iptech.tw/Webpat/Project/Patent>List?sid=2a5a1e90-f802-4a23-a1b1-a634dcfcf76a

IPTech Intellectual Property Total Solution System

專利檢索 專案管理 專利列表 專利篩選 多階分類 管理面分析 技術面分析 報告產生器

Ittest 目前專案 : multi touch

首頁 > 專案管理 > 專利列表導覽

資料快照 再檢索 引證專利 Family 專利 另存至 決出

點選匯出 公告(開)日

匯出

編號 首圖  
1. 依「資料來源」及「匯出格式」匯出檔案。

依據 選取專利 列表專利  
只對於選取的專利來檢索，目前選取 20 筆

匯出格式 Excel-清單模式 PG 2.0 格式 專利閱讀報告  
選擇專利閱讀報告

翻譯設定  
ON 英翻中  
將項目「摘要」、「先前技術」、「提升效果」、「應用領域」、「技術特徵」之內容，進行翻譯。

ON 保留原文  
保留「摘要」、「先前技術」、「提升效果」、「應用領域」、「技術特徵」之原文內容。

產出專利閱讀報告

匯出 關閉

點選匯出

公告(開)日

匯出

選擇專利閱讀報告

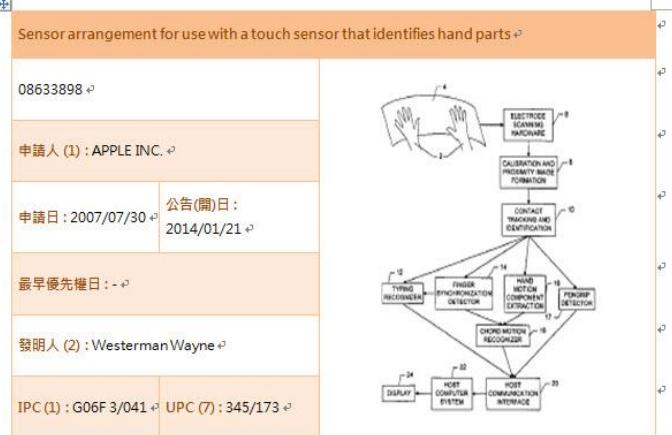
產出專利閱讀報告

匯出

關閉

50

# 專利閱讀報告



## 摘要 :

### 先前技術 :

Speech recognition is an exciting new technology which promises to relieve some of the input burden on user hands. However, voice is not appropriate for inputting all types of data either. Currently, voice input is best-suited for dictation of long text documents. Until natural language recognition matures sufficiently that very high level voice commands can be understood by the computer, voice will have little advantage over keyboard hot-keys and mouse menus for command and control. Furthermore, precise pointing, drawing, and manipulation of graphical objects is difficult with voice commands, no matter how well speech is understood. Thus, there will always be a need in the art for multi-function manual input devices which supplement voice input. +

語音識別是一個令人興奮的新技術，這將減輕一些對用戶手中的輸入負擔。然而，聲音是不恰當的，用於輸入所有類型的數據無論是。目前，語音輸入是最適合的長文本文件的聽寫，直到自然語言識別的成熟足夠了很高的水平語音命令可以通過計算機可以理解，語音將擁有鍵盤熱鍵和鼠標菜單命令和控制一點優勢。此外，精確定位，繪圖和操縱圖形對象難以用語言命令，不管好講話是如何理解的。因此，總是會有一個本領域需要的多功能手動輸入設備的補充語音輸入。 +

### 提升效果 :

Synaptics Corp. has successfully fabricated their electrode array on flexible mylar film rather than stiff circuit board. This is suitable for conforming to the contours of special products, but does not provide significant finger cushioning for large surfaces. Even if a cushion was placed under the film, the lack of stretchability in the film, leads, and electrodes would limit the compliance afforded by the compressible material. Boie et al suggests that placing compressible insulators on top of the electrode array cushions finger impact. However, an insulator more than about one

millimeter thick would seriously attenuate the measured finger-electrode capacitances. Thus there exists a need in the art for a method to transfer finger capacitance influences through an arbitrarily thick cushion. +

Synaptics 的公司已經成功地製作他們的電極陣列柔性聚酯薄膜，而不是僵硬的電路板。這是適合於符合特殊產品的輪廓，但不提供顯著手指緩衝用於大面積表面。即使墊被放置在膜下，在膜中缺乏伸縮性的，引線和電極將限制遵從由可壓縮材料所提供。Boie 等人建議將可壓縮絕緣體上的電極陣列靠墊手指衝擊頂部。然而，絕緣體超過大約 1 毫米厚，將嚴重衰減測量手指電極的電容。因此需要有一種在本領域中對於一種方法，通過任意厚墊轉移手指電容的影響。 +

### 應用領域 :

The present invention relates generally to methods and apparatus for data input, and, more particularly, to a method and apparatus for integrating manual input. +

本發明一般地涉及用於數據輸入的方法和裝置，更具體地說，涉及一種用於將手動輸入的方法和裝置。 +

### 技術特徵 :

It is a primary object of the present invention to provide a system and method for integrating different types of manual input such as typing, multiple degree-of-freedom manipulation, and handwriting on a multi-touch surface. +

它是本發明的目的是提供用於將不同類型的手動輸入的諸如打字，自由度的多個操作，並在多點觸摸面筆跡的系統和方法的一個主要目的。 +

### 技術分類 0210 : Multi Touch / Touch Sensing Surface +

# 報告產生器



點選「匯出」

國家	申請人	發明人	主審查委員
<input checked="" type="checkbox"/> US (136)	<input checked="" type="checkbox"/> Apple Inc. (60)	<input checked="" type="checkbox"/> Hotelling Steve Porter (11)	<input checked="" type="checkbox"/> Nguyen Jennifer (10)
<input checked="" type="checkbox"/> KR (11)	<input checked="" type="checkbox"/> Microsoft Corporation (16)	<input checked="" type="checkbox"/> Westerman Wayne Carl (8)	<input checked="" type="checkbox"/> Wang Quan-Zhen (10)
<input checked="" type="checkbox"/> TW (10)	<input checked="" type="checkbox"/> International Business Mach (8)	<input checked="" type="checkbox"/> Westerman; Wayne Carl (8)	<input checked="" type="checkbox"/> Eisen Alexander (7)
<input checked="" type="checkbox"/> IL (4)	<input checked="" type="checkbox"/> Perceptive Pixel Inc. (7)	<input checked="" type="checkbox"/> Elias; John G. (7)	<input checked="" type="checkbox"/> Lefkowitz Sumati (6)
<input checked="" type="checkbox"/> CN (3)	<input checked="" type="checkbox"/> Adobe Systems Incorporated (4)	<input checked="" type="checkbox"/> Do Lydia M. (5)	<input checked="" type="checkbox"/> Mengistu Amare (6)
<input type="checkbox"/> FI (3)	<input type="checkbox"/> LG Display Co., Ltd. (4)	<input type="checkbox"/> Seacat Lisa A. (5)	<input type="checkbox"/> Amadiz Rodney (5)
<input type="checkbox"/> CA (2)	<input type="checkbox"/> Samsung Electronics Co., Lt (4)	<input type="checkbox"/> Davidson Philip L. (4)	<input type="checkbox"/> HjerpeRichard (5)
<input type="checkbox"/> BM (1)	<input type="checkbox"/> AU Optronics Corp. (3)	<input type="checkbox"/> Hamblin Mark Arthur (4)	<input type="checkbox"/> Nguyen Kevin M (4)
<input type="checkbox"/> PT (1)	<input type="checkbox"/> Google Inc. (3)	<input type="checkbox"/> Han Jefferson Y. (4)	<input type="checkbox"/> PatelNitin (4)
<input type="checkbox"/> SG (1)	<input type="checkbox"/> LG Electronics Inc. (3)	<input type="checkbox"/> Loose Timothy C. (4)	<input type="checkbox"/> Dharia Prabodh M (3)
	<input type="checkbox"/> Nike Inc. (3)	<input type="checkbox"/> Nesbitt Pamela A. (4)	<input type="checkbox"/> EisenAlexander (3)
		<input type="checkbox"/> Bae Sang Hyuck (3)	<input type="checkbox"/> Harris Dorothy (3)
		<input type="checkbox"/> Elias John G. (3)	<input type="checkbox"/> Hjerpe Richard (3)
		<input type="checkbox"/> Elias; John Greer (3)	<input type="checkbox"/> LefkowitzSumati (3)
		<input type="checkbox"/> Forstall Scott (3)	<input type="checkbox"/> MarinelliPatrick (3)
		<input type="checkbox"/> Gagner Mark B. (3)	<input type="checkbox"/> Patel Nitin (3)
		<input type="checkbox"/> Krah Christoph Horst (3)	<input type="checkbox"/> Shalwala Bipin (3)
		<input type="checkbox"/> Land Brian Richards (3)	<input type="checkbox"/> Yeung Matthew (3)
		<input type="checkbox"/> Platzer; Andrew (3)	<input type="checkbox"/> Abdulselam Abbas (2)
		<input type="checkbox"/> Rasmussen James M. (3)	<input type="checkbox"/> AmadizRodney (2)
		<input type="checkbox"/> Thomas Alfred (3)	<input type="checkbox"/> Chow Van (2)
		<input type="checkbox"/> Westerman; Wayne C. (3)	<input type="checkbox"/> Dao Minh D (2)
		<input type="checkbox"/> Zhong John Z. (3)	<input type="checkbox"/> Haley Joseph (2)
		<input type="checkbox"/> Ahn In Ho (2)	<input type="checkbox"/> Hasan Mohammed (2)

設定報告產生器分析項目

公司別分野年	年度區間
1998	1

# 專利影像整批下載



IP Tech - Windows Internet Explorer  
http://lesson.lt.tw/Webpat/Project/Manage/Index

我的最愛 IP Tech

IPTECH Intellectual Property Total Solution System 專利檢索 專案管理

ltest (登出) 首頁 > 專案管理

PatentGrabber Download

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啟動下載

專案名稱：Multi Touch-0905  
專利件數：113  
資料來源：WEBPATTWPATISSUED

出現彈跳視窗，請點選啟動下載

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專案進度 最近瀏覽 最近修改

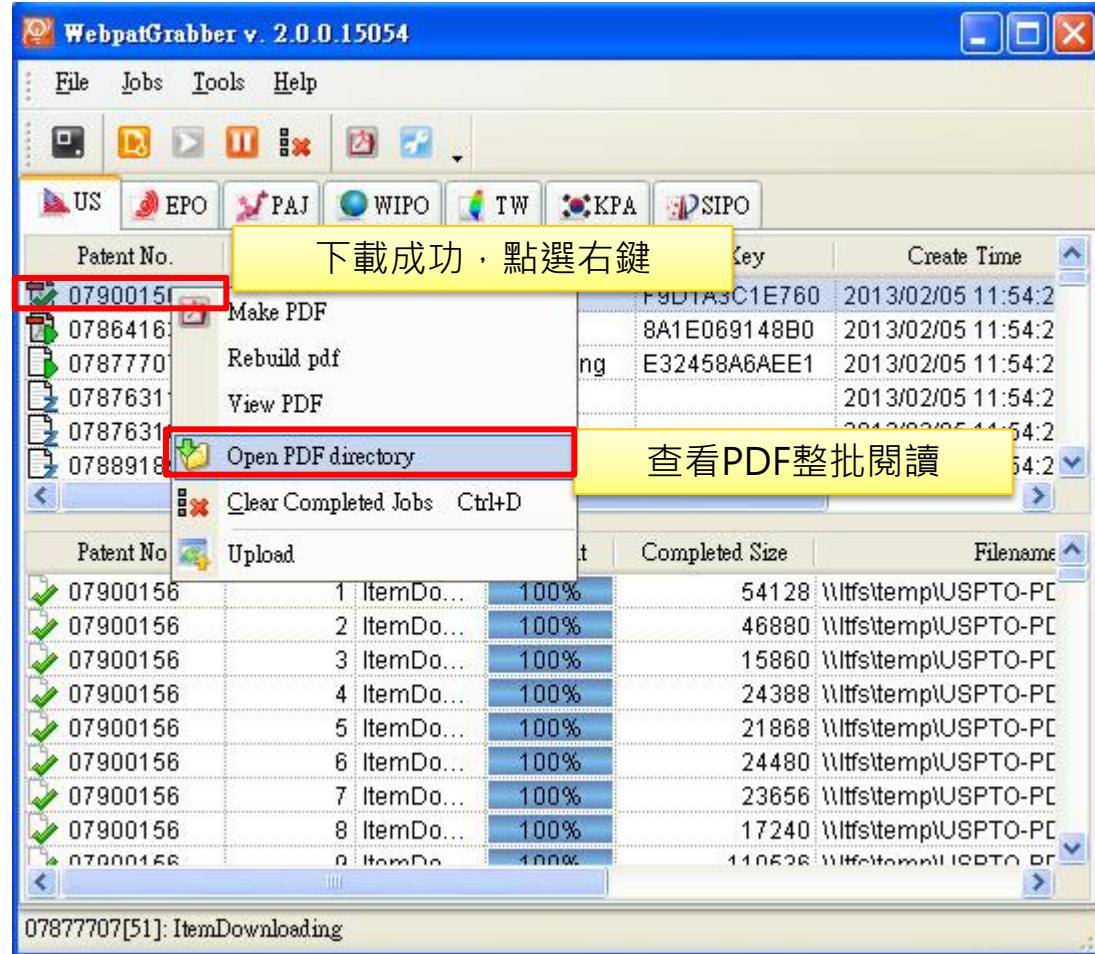
專案進度	最近瀏覽	最近修改
50 / 50 / 172	2013/02/26	[icons]
84 / 84 / 84	2013/02/25	[icons] <span style="border: 2px solid red;">[red box]</span>
218 / 218 / 218	2013/02/26	[icons]
2 / 2 / 2	2013/02/19	[icons]
53 / 53 / 53	2013/02/19	[icons]
119 / 119 / 119	2013/02/19	[icons]
105 / 105 / 105	2013/02/25	[icons]
185 / 185 / 185	2013/02/26	[icons]
134 / 134 / 134	2013/02/19	[icons]
50 / 50 / 50	2013/02/19	[icons]

安裝 PatentGrabber 精靈

PatentGrabber精靈係提供各國專利影像批次下載服務，  
相關服務說明如下：  
服務功能：整批專利影像下載  
輸出格式：PDF檔案  
安裝目地：個人電腦(避免Server服務擁塞)  
使用權限：一個序號限用一台電腦安裝  
資料來源：各國官方網站

關閉

# 下載結束儲存



# 專利資料匯出

IPTech

iptech.tw/Webpat/Project/Patent>List?sid=2a5a1e90-f802-4a23-a1b1-a634dcfcf76a

專利檢索 專案管理 專利列表 專利篩選 多階分類 管理面分析 技術面分析 報告產生器

Ittest 目前專案 : multi touch

首頁 > 專案管理 > 專利列表導覽

資料快照 再檢索 引證專利 Family 專利 另存至 汇出 說明

點選匯出 公告(開)日

編號 首圖

匯出

110.6 ms  
依「資料來源」及「匯出格式」匯出檔案。

依據 選取專利 清單專利  
以列表全部的專利來檢索，本列表共 1467 筆

匯出格式 Excel-清單模式 PG 2.0 格式 專利閱讀報告  
**選擇 Excel**

匯出欄位

<input type="checkbox"/> 首圖	<input checked="" type="checkbox"/> 公告(開)號	<input checked="" type="checkbox"/> 資料來源	<input checked="" type="checkbox"/> 專利名稱
<input checked="" type="checkbox"/> 公告(開)日	<input type="checkbox"/> 申請號	<input checked="" type="checkbox"/> 申請日	<input type="checkbox"/> 審查委員
<input type="checkbox"/> 專利權人	<input type="checkbox"/> 原申請人	<input type="checkbox"/> 發明人	<input type="checkbox"/> 代理人
<input type="checkbox"/> IPC	<input type="checkbox"/> 原 IPC	<input type="checkbox"/> UPC	<input type="checkbox"/> 原 UPC
<input type="checkbox"/> CPC	<input type="checkbox"/> 優先權資訊	<input type="checkbox"/> 申請專利範圍	<input type="checkbox"/> 摘要

**產出 Excel**

**匯出** 關閉

點選匯出

公告(開)日

分類號

5F 3/00  
5F 9/00  
5F 17/00

5F 3/00  
5F 5/00

5F 3/042

with Single point

# 專利號碼匯入

IP TECH G TECH  
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專利檢索 專案管理

匯入專利

匯入專利資料或輸入專利號，進行匯入專利。

儲存至 新專案 已存在的專案

ID 專案名稱 備註

6878

6877

6876

6872

6860

6859

6858

5802

293

5799

請選擇專利資料來源

TW Issued  TW Appl.  US Issued  
 US Appl.  EP Issued  EP Appl.  
 CN  PAJ  WO  
 JP Issued  JP Appl.

選擇資料庫

輸入專利號

匯入 PatentGuider 資料 (\*.txt) 匯入 PatentTech 資料 (\*.xml)

號碼間請以「換行」或「空白」區隔。專利號參考範例：00525881 I296963

儲存 關閉

說明 每頁 10 筆

瀏覽 最近修改

5/07/28 2015/07/28

5/07/28 2015/07/28

28 2015/07/28

5/07/27 2015/07/27

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5/07/28 2015/07/25

5/07/28 2015/07/25

5/07/28 2015/07/24

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# 專利號碼匯入



# 客服聯繫方式

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