



ISI Web of Knowledge *Derwent Innovation Index*

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Derwent 簡介

- Derwent 是全球最權威的專利情報和科技情報機構之一，1948年由化學家Monty Hyams在英國創辦建立。
- Derwent隸屬於全球最大的專利資訊集團—Thomson Reuters 集團
- 目前全球的科技研發人員、全球500大企業的研發人員、世界各國幾乎所有主要的專利機構、情報專家、業務發展人員都在使用Derwent 所提供的情報資源

大綱

- 專利文獻及其運用概述
- Derwent Innovations Index 的內容與應用
- Derwent Innovations Index 的檢索
- Derwent Innovations Index 檢索結果的瀏覽與處理

Do academics (& TLO) and students need patent information ?

Patent and Non-patent relationship



Read patents, not just papers

If you want to know the state of a hot field in materials research, then make sure you watch the patent database.

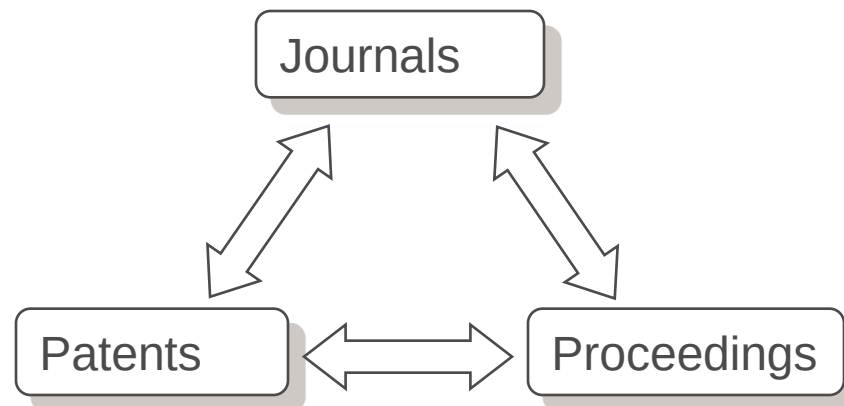
nature **materials** | VOL 1 | DECEMBER 2002



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專利的重要性

- 不僅限於企業界重視，越來越多的學術單位開始重視專利資料
- 幾乎每位化學諾貝爾獎得主及大部分的物理及醫學領域得主都發表過專利
- 研究人員靠著發表專利以強化他們的研究發表
- 學術界研究員所需要的核心資源來自於專利、期刊論文、與會議紀錄所組成的金三角



Who needs patent information?

For researchers

完整背景資訊

別處得不到的獨特資料

各種技術的所有細節

取得新技術與新方法的靈感

研究評量

For intellectual property administrators and analysts

法律上保障

前案檢索

授權金

智慧財產權的保障 (技術轉移/授權)



專利的基本特性

- 國家專利主管機關授予申請人在一定時間內享有不准他人任意製造、使用或銷售其專利產品或者使用其專利方法的權利。作為獲得這種專利權利的前提，權利申請人必須要以專利（申請）說明書的形式公開自己所申請專利的技術內容及細節。
- 專利的基本特點：
 - 進步性
 - 新穎性
 - 實用性



專利（申請）說明書作為專利授予（申請）的重要文獻組成部分，具有不同於其他文獻類型的特點：

.....

內容新穎、報導迅速

由於專利制度中特有的優先權原則，發明人往往會在發明完成的第一時間裏提出專利申請。因此90-95%的發明創造會很快地先出現在專利文獻中，所以專利文獻是追蹤技術創新領域最新進展的一個重要媒介。

- 電視機：1929年發表於專利文獻中，到了1948才在期刊中有所反映，其間相隔了近20年。
- 80% 的專利資訊從未或不再以其他形式（論文、會議等）發表。

● 內容廣泛、連續系統

專利制度在許多國家由來已久，因此許多國家都保存了大量廣泛而系統的專利技術文獻。從尖端的奈米技術到日常的生活用品，可以說無所不包；由於專利文獻保存的系統性，可以反應出技術從無到有，從低級到高級的完整技術進化史。

發明於本世紀初的浮法玻璃製造技術，發展到今天，僅外國專利就有100件之多，不僅反應了這一技術的進化過程，也反應了有關這一核心技術的各個側面的技術細節。

同時技術本身的發展也具有繼承性、系統性。據統計70%的公司，是在現有專利技術中發展新技術的。系統地了解這些已有的技術文獻是推動技術創新的基礎。

專利文獻——特有競爭性情報價值：

- 及時了解最新技術研究進展，啟發思路，提高科學研究起點，獲得科學研究支持資金。
 - 根據歐洲專利局的統計，歐洲每年大約要浪費200億美元用於重複項目的開發投資。若能充分利用專利文獻，則能節約出40%的研發經費用於高水準的研究工作，同時為科研人員節約時間。
- 洞察技術發展趨勢，預測技術發展動向
- 洞悉競爭對手、同行的研究進展
- 連續追蹤一項技術的自然演變
- 反映一個機構、國家的核心技術競爭力



專利文獻的檢索與利用所面臨的問題（一）

專利是科學發現的重要組成部分，無論從事技術發明，或是致力於科學研究，專利文獻都是學術文獻不可或缺的組成部分。但是長久以來，由於種種原因，專利文獻的查找比較困難。

人們對專利文獻的利用並不令人滿意：據EPO(歐洲專利局)的統計指出：歐洲每年大約浪費200億美元的投資；若能應用專利文獻，能節約40%的科研開發經費，少花60%的研究開發時間。

專利文獻的檢索與利用所面臨的問題（二）

- 專利說明書是具有法律性質的技術文件
- 專利申請人為了有效保護其發明創造，在專利文獻中往往會用一些繁複晦澀、意義含混的專用術語（或法律術語），與一般科技論文中的通用技術用詞不同
- 許多專利並非以英文發表
- 由於專利審查制度的規定，以及專利的保護具有國家性，常常造成相同技術文獻多次重複出版（專利家族）
- 一般由專利審核機構所提供的免費專利檢索系統基本只提供了該機構專利資訊的簡單檢索途徑，專利全文多以單頁顯示的圖形檔(IMAGE)方式提供



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Derwent Innovation Index的特點

- 整合Derwent 最著名的World Patent Index[®]（世界專利索引）與Patent Citation Index[®]（專利引文索引）
- 全面的專利文獻收錄，綜合檢索世界各國的專利文獻
- 超過55年專利情報加工經驗，有系統、嚴格的規範整理
- 高附加價值的專利文獻標題與索引
- 強大的檢索途徑和檢索輔助工具
- 克服以往專利檢索中遇到的困難



Derwent Innovations Index的收錄範圍

- 收錄來自世界40多個專利機構的1千多萬個基本發明專利，3千多萬個專利，數據可回溯至1963年。
- 每周更新
- 每周增加來自40多個專利機構的2萬5千多個專利
- 分為Chemical Section, Electrical & Electronic Section, Engineering Section三部分，為研究人員提供世界範圍內的化學、電子電氣以及工程技術領域內綜合全面的發明資訊

Derwent Innovations Index：高價值的指引

- Descriptive Titles ——描述性的標題
- Descriptive Abstract ——描述性的摘要
- Patent Family Records——專利家族全記錄
- Patent Assignee Codes ——專利權屬機構代碼
- Derwent Classification——Derwent分類號
- Manual Codes ——Derwent手工代碼
- Patent Citation——專利引文



描述性的標題與摘要

- 專利文獻所具有的法律性質，以及專利申請人為了有效地保護其發明創造，在專利文獻中往往一些繁複晦澀、意義含混的專用術語（或法律術語），與一般科技論文中的通用技術用詞不同，因此用習慣的常用詞檢索時，很難找到相關的技術專利文獻，了解某項技術的全貌
- Derwent的技術專家會用通俗的語言按照技術人員平常用詞、行文的習慣重新用英文書寫每一篇文獻的標題和摘要，重新書寫的標題、摘要會從以下幾個方面對專利加以描述，即使用習慣的常用詞進行檢索，也不會有問題



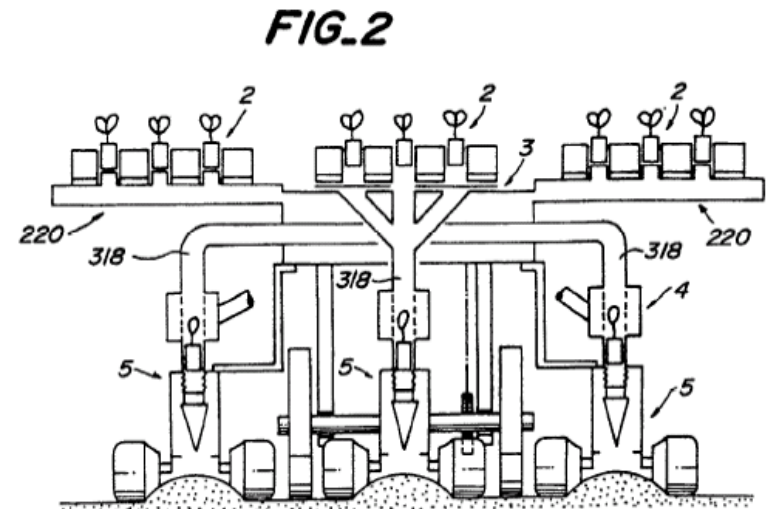
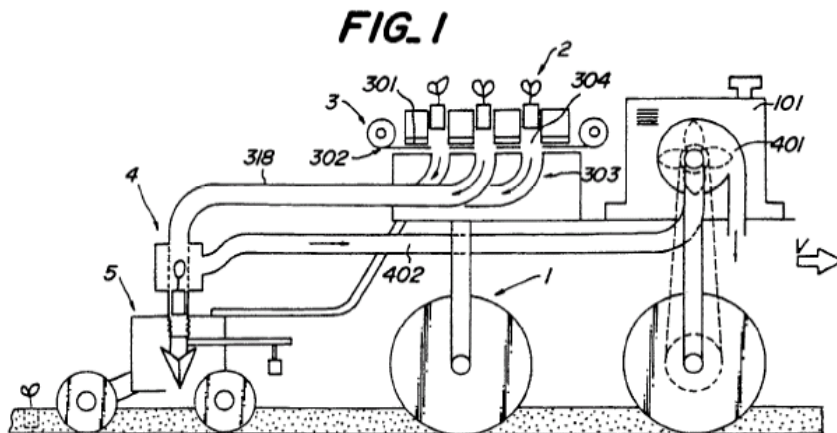
描述性的標題

專利文獻原標題：

“Setting machine”

Derwent 描述性標題

“Seedling setting machine - has transportation unit for using vacuum to suck withdrawn seedling into predetermined position”



描述性的標題

? Title: **JP2004195054A2: WARMER**

? Derwent Title: Warming device used for retaining heat of milk pot and infant feeding bottle at predetermined temperature, has positioning mechanism which positions milk pot when other-surface side opening of bottom wall is carried out upwardly
[Derwent Record](#)

? Country: **JP** Japan

? Kind: **A2** Document Laid open to Public inspection !

? Inventor: **KASAI KENZO;
SAWADA KAZUNORI;**

? Assignee: **APRICA KASSAI INC**
[News, Profiles, Stocks and More about this company](#)

? Published / Filed: **2004-07-15 / 2002-12-20**

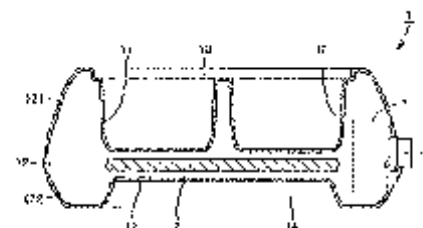
? Application Number: **JP2002000369491**

? IPC Code: **[A61J 9/00](#); [A47J 36/24](#);**

? Priority Number: **2002-12-20 JP2002000369491**

? Abstract: PROBLEM TO BE SOLVED: To provide a warmer which has simple structure and a temperature controlling function and which can selectively warm or heat a milk formula preparation pot and a feeding bottle with a common heater.

SOLUTION: A main body 1 comprises a bottom wall part 11 and a peripheral wall 12 surrounding this and extending vertically. The peripheral wall 12 is formed to be high on its one side and low on the other side. When making an opening part 13 at one surface of the



[Original](#)

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Warming device used for retaining heat of milk pot and infant feeding bottle at predetermined temperature, has positioning mechanism which positions milk pot when other-surface side opening of bottom wall is carried out upwardly

Patent Number(s): ~JP2004195054-A

Patent Assignee Name(s) and Code(s): APRICA KUZUNISHI KK(KASS-C)

Derwent Primary Accession Number: 2004-503536 [48]

Abstract: NOVELTY - A bottom wall (11) which encloses the surrounding wall (12) of the device main body (1), has an opening (13,14) formed at both surface sides. When the surface side opening (14) of the bottom wall is carried out upwardly, a positioning mechanism positions the milk pot, and drinking water is boiled with a heater (2) incorporated in the bottom wall.

USE - Used for retaining heat of milk pot and infant feeding bottle at predetermined temperature.

ADVANTAGE - Provided simplified structure for temperature control function. Enables selectively performing heat-retention or heating with common heater.

DETAILED DESCRIPTION - When the other surface side opening (13) of the bottom wall is carried out upwardly, an infant feeding bottle is positioned, and the milk is heat-retained through the heater.

DESCRIPTION OF DRAWING(S) - The figure shows the sectional drawing of the warming device.

Main body (1)

Heater (2)

Additional information

Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).



描述性的摘要

專利文獻原摘要

The present invention relates to capsules encapsulating antibody-producing cells, and to the use of such capsules and encapsulated cells.

Derwent 描述性摘要

Capsule (A) comprises a core containing antibody-producing cells (B), surrounded by a porous wall that is permeable to antibodies (Ab) produced by the cells.

USE - Ab may bind to and block the receptors essential for viral infection, or they bind to viruses or other circulating antigens. The capsules are implanted for treatment or prevention of disease, particularly cancer, autoimmune disease (including multiple sclerosis

ADVANTAGE - respectively, for implantation in vivo for long term delivery or sustained delivery of antibodies of therapeutic interest.

- The capsules, from which no anti-idiotypic response is elicited provide long-term or sustained release of Ab and after implantation do not cause an inflammatory response in the host.....*



Derwent benefit...

例: RFID (Radio Frequency Identification)

無線射頻辨識系統



RFID (Radio Frequency Identification)

無線射頻辨識系統

US6275153B1 Identification and tracking system

Bibliographic

DWPI Title ?
Tracking system for skis and snowboards, has radio frequency identity reader to read associated identification number of each ski and snowboard, stored in transponder

Original Title ?
Identification and tracking system

Assignee ?
Standardized: BROOKS ANDREW

DWPI Assignee ?
BROOKS A (BROO)

Inventor ?
Brooks Andrew

DWPI Inventor ?
BROOKS A

Publication Date
2001-08-14 (B1)

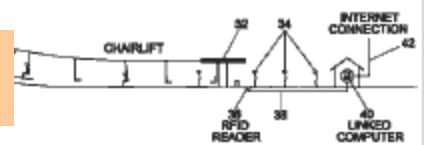
DWPI Accession
2001-601289 / 200

Application Num
US2000626068A /

Abstract ?
A system for tracking a plurality of recreational items for sliding on snow-covered surfaces of a hill. The system comprises, for each item in the plurality of recreational items, an associated integral ID storing device for storing an associated item ID, the associated item ID being electronically readable from the associated integral ID storing device. The system also comprises an interrogator for reading the associated item ID stored on the associated integral ID storing device for each item in the plurality of recreational items.

Images(6) View in: Single Row
Scroll to view all images & click to enlarge

Where is RFID ?



The diagram illustrates the system architecture. It shows a chairlift (30) with skis (34) and snowboards (38) attached. An RFID reader (36) is positioned to read the identification numbers stored in the transponders on the skis and snowboards. The RFID reader is connected to an ID-linked computer (40), which is in turn connected to an internet connection (42).



Images(6) View in: Single Row

Tracking system for skis and snowboards, has radio frequency identity reader to read associated identification number of each ski and snowboard, stored in transponder

Tracking system for skis and snowboards, has radio frequency identity reader to read associated identification number of each ski and snowboard, stored in transponder.

BROOKS A (BROO) ➡

Brooks Andrew

BROOKS A

Abstract

(US6275153B1)

Novelty

Each ski and snowboard include a transponder storing electronically readable associated identification number. Radio frequency identity (RFID) reader is associated with a chairlift (32) used for transporting skiers and snowboarders along with skis and snowboards. During transportation, RFID reader reads the stored corresponding ID of each ski and snowboard.

An INDEPENDENT CLAIM is also included for ski and snowboard tracking method.

For tracking skis and snowboards used for sliding on snow covered hill.

Since the RFID reader reads the stored associated ID number, the skis and snowboards that are stolen, are easily identified and tracked.

The figure shows the schematic view of ski and snowboard tracking system.



DERWENT VALUE ADDING data

翻譯

Derwent 翻譯所有英語以外的其他語言出版的專利文獻，對於克服語言障礙，了解世界各國的科技進展非常有用。

例如：日本每周公布4000件專利，全部是日語，**Derwent** 的研究人員將其第一頁翻譯成英文並編制英文索引與摘要。

專利家族

- 由於專利審查制度程式的規定，以及專利的保護具有國家性，常常造成相同的技術文獻多次重複出版
- Derwent 會將同族專利合併成一條記錄，在同一條記錄頁裏會列出同族專利中不同國家授予給同一項技術的不同的專利號，從而對某一個具體專利的全球專利授權情況一目了然。
另外，對於非英文的專利，可以通過同族專利的記錄，找到同一項技術的英文專利，瞭解技術細節
- DII中專利家族的規模大小，會反映出某一項技術的重要程度；同時，專利家族的區域分佈情況可以反映出專利權屬機構的市場發展計畫；這種區域分佈的變化，也可以反映出專利權屬機構市場戰略的改變

專利家族

Colour liquid crystal display device - includes light-shielding conductive layer connected to conductive films and extending in region between pixels

Patent Number(s): ~EP317063-A2 [→ Original](#) ; ~EP317063-A [→ Original](#) ; US5083853-A [→ Original](#) ; US5142392-A [→ Original](#) ; CA1319186-C ; ~EP317063-B1 [→ Original](#) ; DE3852617-G

Inventor(s): UEKI T, OANA Y, TOMIL H, TOMII H

Patent Assignee Name(s) and Code(s): IBM CORP(IBM-C)
TOSHIBA KK(TOKE-C)
INT BUSINESS MACHINES CORP(IBM-C)

Derwent Primary Accession Number: 1989-152574 [51]

Citing Patents: 11

Patents Cited by Examiner: 36

Articles Cited by Examiner: 2

Abstract: The device includes a number of pixels (4R, 4G, 4B) in which conductive films (19R, 19G, 19B) are arranged at regions corresponding to the respective pixels. A light shielding conductive layer (10R, 10G, 10B) is connected to the conductive films and extends in a region between the pixels.

The colour filters (8R, 8G, 8B) are formed on the conductive films. A light shielding layer (2) is formed on the substrate (1). Part of the light shielding layer corresponding to a pixel is connected to the conductive films on the substrate.

ADVANTAGE-Smaller number of manufacturing steps.

[Show Equivalent Abstract\(s\)](#)

Drawing:

不同國家授予給同一項技術發明的不同的專利號，
DII將其合併在一個記錄頁中，聚成專利家族



與Web of Science的雙向連接

Cited Articles (*DII* → *WoS*)

Over 1,400,000 links - will increase

- 追蹤基礎研究發展成為專利提供線索與方向
- 基礎研究課題如何轉化成應用研究乃至技術專利提供了思路和方法
- 基礎研究中所涉及的創新只能轉化為專利才能得到相應的知識產權保護，在市場競爭中得以應用與發展

Cited Patents (*WoS* → *DII*)

Over 160,000 links - will increase

掌握新的技術在科學研究中的應用提供了很好的借鑒和參考。

專利文獻與期刊文獻的雙向連接：基礎研究與技術應用

- 從事知識創新是科學系統的主要活動，知識創新的成果構成技術創新的基礎和泉源。
 - 1993-1994年美國專利引用的科學論文73%來自政府支持的科學研究，只有27%來自企業支持的研究；
 - 1993-1994年專利引用的科學論文是1987-1988年專利引用的科學論文的3倍。
- 基礎研究的科學論文對技術創新的支持作用很大，而且在不斷地加強。
 - 了解並研究技術專利背後所隱藏的科學研究為我們提供進一步深化研究的途徑，探索基礎研究轉化為發明創造的方法和途徑，應當是也必然是科學技術研究的重要組成部分。

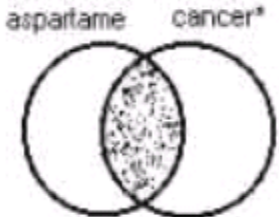
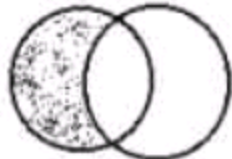
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Derwent Innovations Index：檢索

- General Search 一般檢索
- Cited Patent Search 被引專利檢索
- Advanced Search 進階檢索

檢索中適用的布林邏輯

 AND	檢索結果中必須出現所有檢索詞 TOPIC : aspartame AND cancer* 檢索到的文獻包含aspartame，也包含cancer
 OR	檢索結果必須出現在任一檢索詞，當檢索詞有多種拼法或有幾個同義詞時，使用OR TOPIC : aspartame OR saccharine OR sweetener* 檢索到文獻至少包含其中一個詞
 NOT	檢索結果中不應該出現包含某一個檢索詞的文章 TOPIC : aids not hearing 檢索到的文獻都包含aids，但不包含hearing



檢索中適用的切截符號

.....

切截符號有多種用途

詞尾切截可得到該單字所提及的所有詞語（單數和複數）

詞間切截：可找到該單字的所有變化形式或不同拼法。

? = 一個字母

* = 一個或多個字母

右切截		詞間切截	
Diseas*	Disease Diseases Diseased	Lap*roscop*	Laparoscopic Laproscopic Laparoscopy

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in

Topic

Example: recharg* lithium batter*

AND

in

Patent Number

Example: EP797246 or US5723945-A

AND

in

Topic

Example: recharg* lithium batter*

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Timespan

All Years

(updated 2012-03-01)

From 1967 to 2012

(default is all years)

Citation Databases : Chemical Section; Electrical and Electronic Section; Engineering Section

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- Topic : 主題，檢索專利的標題或者摘要
- Title : 篇名
- Inventor : 發明人，姓在前，加上名字首字母
- Assignee : 專利權人
- Patent Number : 專利號
- International Patent Classification : 國際專利分類號
- Derwent Class Code : Derwent分類代碼
- Derwent Manual Code : Derwent手工代碼
- Derwent Primary Accession Numbers : Derwent專利入藏登記號

Topic
Topic
Title
Inventor
Patent Number
Int. Patent Classification
Derwent Class Code
Derwent Manual Code
Derwent Prim. Access. No.
Assignee - Name Only
Assignee
Ring Index Number
Derwent Compound No.
Derwent Registry No.
DCR Number

檢索範例：檢索Apple公司有關touch pad的專利

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Results Topic=(iphone) AND Assignee Name & Code=(apple)
Timespan=1967-2012. Databases=CDerwent, EDerwent, MDerwent.

Results: 283

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- ☐ COMPUTER SCIENCE (237)
- ☐ COMMUNICATION (166)
- ☐ INSTRUMENTS & INSTRUMENTATION (147)
- ☐ CHEMISTRY (15)
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Assignee Names

- ☐ APPLE INC (283) [Refine](#)

1. US2011305875-A1 2011-Q44288
Title: Glass cover providing method for e.g. electronic device, involves grinding surface of cover to create spline along surface, inserting cover into polishing structure, and polishing surface of cover and chamfer
Assignee: APPLE INC
Inventor(s): SANFORD E, LYNCH S B, MONTEVIRGEN A S, et. al
Citing Patents: 0
[Original](#)
2. US2011297183-A1 2011-Q00841
Title: Method for removing e.g. human skin oil adhered to display of e.g. electronic device, involves facilitating removal of foreign particle from surface of outer component by increasing wetting angle between foreign particle and surface
Assignee: APPLE INC



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檢索專利權人

- 專利權人是指享受專利的個人或團體
- 可用授權人名稱或Derwent機構代碼檢索
- 點選檢索後的放大鏡圖示可以進行輔助檢索
- 獨特的機構代碼確保檢索該機構所有的專利情況



專利權屬機構代碼

- 許多全球性的跨國公司或機構設在不同地區、國家的分支機構有可能會使用截然不同的名稱，DII中對這些機構的名稱作了標準化處理，即專利權屬機構代碼。
 - Apple公司的專利權屬機構代碼是APPY，Apple在不同地區、國家的分支機構用不同的名稱作出的專利申請，在DII中，都會對其名稱進行標準化 (APPY)，這樣可以很容易地找到屬於Apple的專利申請。



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Search

Example: T01-L02

AND

Example: XEROX CORP or XERO

AND

Example: T01-L02

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Derwent 手工代碼：

T01-C02B1D

VIRTUAL KEYBOARDS AND
TOUCH SCREENS

專利權人：Apple的統一代碼APPY

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Example: oil* to find B04-B01C3 MINERAL OILS AND WAXES

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KEY: **Add** = add to query **S** = view substance details



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- [-] Section C: Agdoc
- [-] Section D: Food, Fermentation, Disinfectants, Detergents
- [-] Section E: Chemdoc
- [-] Section F: Textiles, Paper, Cellulose
- [-] Section G: Printing, Coating, Photographic
- [-] Section H: Petroleum
- [-] Section J: Chemical Engineering
- [-] Section K: Nucleonics, Explosives, Protection
- [-] Section L: Glass, Ceramics, Electro(in)organics
- [-] Section M: Metallurgy
- [-] Section N: Catalysts
- [-] Section Q: Vehicles
- [-] Section S: Instrumentation, Measuring, and Testing
- [-] Section T: Computing and Control
 - [-] **Add** T01 DIGITAL COMPUTERS
 - [-] **Add** T02 ANALOGUE AND HYBRID COMPUTERS
 - [-] **Add** T03 DATA RECORDING
 - [-] **Add** T04 COMPUTER PERIPHERAL EQUIPMENT
 - [-] **Add** T05 COUNTING, CHECKING, VENDING, ATM AND POS SYSTEMS

輸入關鍵詞或按照說明找到相應的分類代碼

ADD加入檢索框

Transfer your selected code(s) below to the Derwent Manual Code field on the Search page.

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檢索範例：

檢索有關防鎖死剎車系統技術的文獻



Derwent分類在專利檢索中的應用

自然語言常常會有一詞多義的現象，經常會造成輸入一個關鍵詞，會查到上萬筆的記錄，其中混合了大量不相關的記錄。這個時候如果有一個統一完整的分類系統幫助限定詞義的範圍，會提升檢索的準確度，節省時間。例如：

- ABS：可以是防鎖死剎車系統的縮寫
(Antilock braking systems)
- ABS：也可以是化合物丙烯腈-丁二烯-苯乙烯的縮寫
(Acrylonitrile-butadiene-styrene)

要檢索有關防鎖死剎車系統技術的文獻，可以利用關鍵詞ABS結合Derwent分類代碼限定檢索結果。

Derwent分類代碼：Q18——車輛剎車控制系統

Derwent分類：Chemical (sections A - M)化學

- A 聚合物和塑膠
- B 藥物
- C 農業化學
- D 食品、化妝品、洗滌劑、水處理、生物技術
- E 一般化學
- F 紡織、造紙
- G 印刷、塗敷、攝影
- H 石油
- J 化工
- K 核工程、爆破、防護
- L 耐火材料、陶瓷、水泥、有機（無機）電化學
- M 冶金

Derwent分類：Engineering (sections P - Q) 工程

- P 一般
 - P1 農業、食品、烟草
 - P2 個人用品、家用產品
 - P3 衛生保健、娛樂
 - P4 分離、混合
 - P5 金屬成型
 - P6 非金屬成型
 - P7 擠壓、印刷、印染
 - P8 光學、攝影
- Q 機械
 - Q1 一般車輛
 - Q2 特殊車輛
 - Q3 運輸、包裝、貯存
 - Q4 建築、結構
 - Q5 發動機、泵
 - Q6 工程元件
 - Q7 光、熱



Derwent分類：Electrical and Electronic(sections S - X) 電子與電氣

- S 儀器、測量和測試
- T 電腦和控制
- U 半導體和電子電路
- V 電子零件
- W 通訊
- X 電力工程

Derwent分類代碼的檢索輔助工具

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Derwent Class Codes

Use the Find and Browse features to locate codes to add to your query.

Enter text to find a class code.

Example: polym to find A32 Polymer fabrication - such as moulding, extrusion, forming, laminating, spinning.*

Find

Browse Derwent Class Code Hierarchy

KEY: **Add** = add to query

- ☐ Chemical Sections (A - M)
- ☐ Engineering Sections (P - Q)
- ☐ Electrical & Electronic Sections (S - X)

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檢索範例：

第三代行動通訊技術（3G）



-
- 3G的核心技術在寬頻行動通訊，支援多媒體資料在客戶端與終端設備之間的高速傳輸。

- 3G涉及到了很多層面的技術：資料的壓縮、封包、加密、傳輸
- 也涉及到眾多的開發機構：Nokia, Motorola, Ericsson, Sony, Siemens, GE.....
- 要在3G領域展開研發工作，第一件要做的事情就是透過專利文獻去了解技術的最新進展，每家（研究）機構都用哪些不同的技術解決同一個問題，自己的切入點應該在哪裡，也就是進行情報分析。



如何選擇主題詞

- 在3G的專利文獻中使用的主題詞有很多種，有的文獻用的是CDMA、CDMA2000、W-CDMA、TDS-CDMA，有的用3G、The Third Generation，3rd generation mobile communication；IMT-2000；UMTS；Universal Mobile Telecommunication System；甚至有的專利整篇都沒有出現以上的字樣。
- 面臨詞彙概念內涵與外延差異所導致的混淆。譬如CDMA既包括3代行動通訊技術，也包括2代與2.5代行動通訊技術。另外還有一詞多義的現象，譬如3G也代表一個物理量：3克。
- 面臨的難題：一方面要在大量不相關的檢索結果中篩選所需要的文獻，另一方面還可能有大量的文獻檢索不到。

Derwent手工代碼

- 根據專利文獻的文摘和全文，對發明的應用和發明的重要特點進行獨家標引
- 提高檢索的全面性和準確性
 - 標引的一致性很高
 - 適應於研究人員的習慣和應用
- 直接提供手工代碼的檢索輔助工具

Derwent 手工代碼

- 比 Derwent 分類代碼更為詳細，相當於一個廣義的同義詞表，將具有相似涵義的不同詞彙歸入一個單一的代碼
 - 如3G的Derwent手工代碼是W02-C03C1G
 - 也就是說無論專利文獻中出現了什麼樣的詞，甚至並沒有出現任何相關的詞彙，只要涉及3G某一個方面的研究如資料壓縮、封包、傳輸等，DII都會給這篇文獻相同的記號：W02-C03C1G。這樣只需要用這樣一個代碼，就可以很容易地查全這方面的文獻，而不用去考慮各種複雜的主題詞組合。



Derwent手工代碼的檢索輔助工具

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Example: oil* to find B04-B01C3 MINERAL OILS AND WAXES

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KEY: **Add** = add to query **S** = view substance details



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- [-] Section F: Textiles, Paper, Cellulose
- [-] Section G: Printing, Coating, Photographic
- [-] Section H: Petroleum
- [-] Section J: Chemical Engineering
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- [-] Section Q: Vehicles
- [-] Section S: Instrumentation, Measuring, and Testing
- [-] Section T: Computing and Control
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 - [+] **Add** T02 ANALOGUE AND HYBRID COMPUTERS
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Use 2-character tags, Boolean operators, parentheses, and set references to Results appear in the Search History at the bottom of the page.

Example: TS=(nanotub* SAME carbon) NOT AU=Smalley RE
#1 NOT #2 [more examples](#) | [view the tutorial](#)

TS=(CDMD or GSM) not (AN=Nokia)

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利用右側的檢索欄位代碼構成複雜的檢索式

Field Tags:

TS=Topic

TI=Title

AU=Inventor

PN=Patent Number

IP=Int. Patent Classification

DC=Derwent Class Code

MAN=Derwent Manual Code

PAN=Derwent Prim. Access. No.

AN=Assignee Name

AC=Assignee Code

AE=Assignee Name + Code

CP=Cited Patent Number

CX=CP + Family

CAC=Cited Assignee

CN=Cited Assignee Name

CPC=Cited Assignee Code

CAU=Cited Inventor

CD=Cited PAN

RIN=Ring Index Number

DCN=Derwent Compound No.

DRN=Derwent Registry No.

DCR=DCR Number

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Timespan

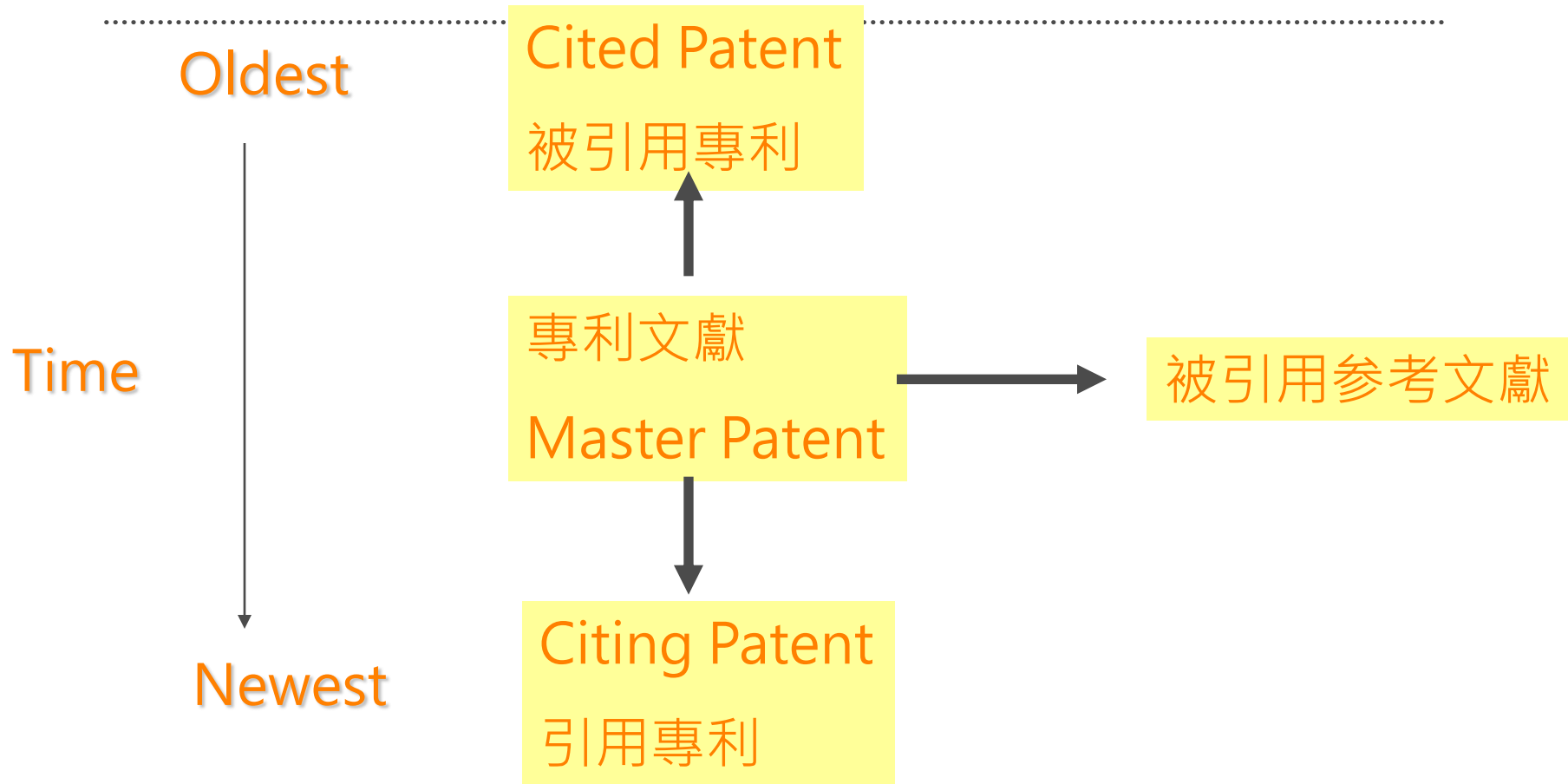
☒ All Years (updated 2012-03-01)

☐ From 1963 -66 to 2012 (default is all years)

Cited Patent Search 被引專利檢索

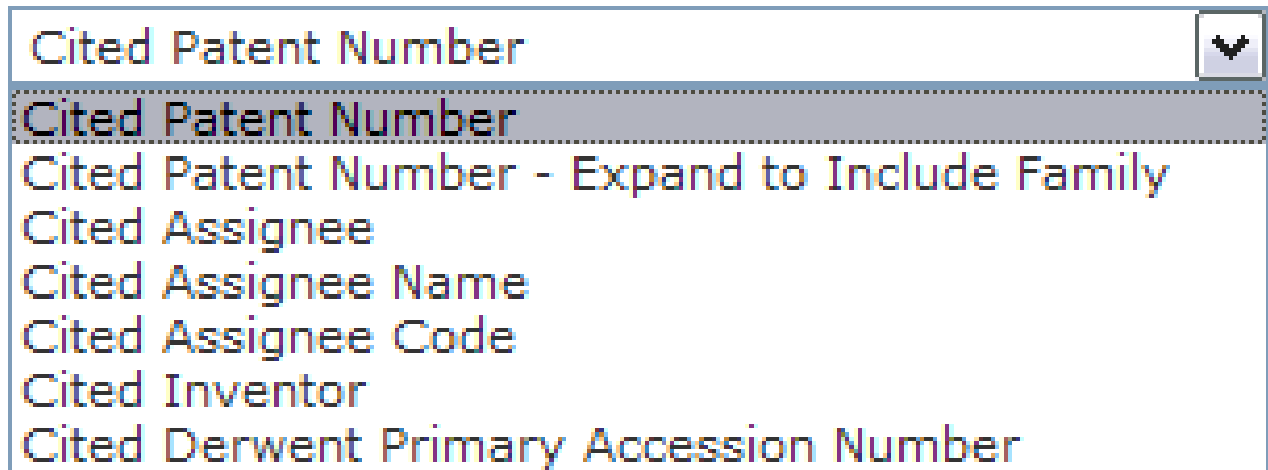
- 許多專利發明人在提交專利申請說明書時，會列出自己發明過程中所參考過的論文及專利；同時有的專利授與機構的專利審查員也會列出自己審查某一項專利授與權過程中所參考過的文獻及專利。DII中透過連結，顯示這些有關某一專利的參考文獻及參考專利情況(來自於發明者和專利審查員的)
- 同時，DII中還會有Citing Patent的連結，顯示某一項專利發明以來，被哪些專利引用過
- 借著專利與專利間，以及專利與論文間引用與被引用關係，可以看出一項專利的理論、技術起源。並用Citing Patent的連結，可以迅速追蹤到一項技術自誕生以來，最新的進展情況。





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- 在專利的引文中進行檢索
- 可供檢索的欄位包括：
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 - Cited Assignee 被引專利權人
 - Cited Inventor 被引專利發明人
 - Cited Derwent Primary Accession Number 被引專利Derwent入藏號



A screenshot of a web application's dropdown menu for selecting search criteria. The menu is open, showing a list of options. The first option, 'Cited Patent Number', is highlighted with a grey background. The other options are listed below it. The dropdown is enclosed in a blue border.

- Cited Patent Number
- Cited Patent Number - Expand to Include Family
- Cited Assignee
- Cited Assignee Name
- Cited Assignee Code
- Cited Inventor
- Cited Derwent Primary Accession Number

Cited Patent Search 被引專利檢索

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Enter the patent number, assignee, inventor, and/or accession number. Fields are combined with the Boolean AND operator.

Example: EP797246 or US5723945-A

in

Example: XEROX CORP or XERO

in



Example: Von Oepen R

in



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- 出版年代
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- 專利權人代碼
- 被引用次數
- Derwent分類號

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Results Topic=(iphone) AND Assignee Name & Code=(apple OR APPLE COMPUTER CORP)
Timespan=1967-2012. Databases=CDerwent, EDerwent, MDerwent.

Results: **283** Page 1 of 29 Go

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Assignee Names

APPLE INC (283)

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more options

Save to: EndNote Web EndNote ResearcherID

1. US2011305875-A1
Title: Glass cover providing method for e.g. electronic device, involves grinding surface of cover to create spline along surface, inserting cover into polishing structure, and polishing surface of cover and chamfer
Assignee: APPLE INC
Inventor(s): SANFORD E, LYNCH S B, MONTEVIRGEN A S, et. al
Citing Patents: 0
Original

2. US2011297183-A1
Title: Method for removing e.g. human skin oil adhered to display of e.g. electronic device, involves facilitating removal of foreign particle from surface of outer component by increasing wetting angle between foreign particle and surface
Assignee: APPLE INC

2011-Q00841

網際網路 100%

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☐ APPLE INC (283)
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☐ CAPELA J C (4)
☐ MOORE B A (4)
☐ WEELDREYER C D (4)
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1.

US2011305875-A1

2011-Q44288

Title: [Glass cover providing method for e.g. electronic device, involves grinding surface of cover to create spline along surface, inserting cover into polishing structure, and polishing surface of cover and chamfer](#)
Assignee: APPLE INC
Inventor(s): SANFORD E, LYNCH S B, MONTEVIRGEN A S, et. al
Citing Patents: 0

2.

US2011297183-A1

2011-Q00841

Title: [Method for removing e.g. human skin oil adhered to display of e.g. electronic device, involves facilitating removal of foreign particle from surface of outer component by increasing wetting angle between foreign particle and surface](#)
Assignee: APPLE INC
Inventor(s): CAMERON G
Citing Patents: 0

3.

US2011300806-A1; WO2011152993-A1

2011-Q03870

Title: [Method for facilitating user-specific suppression of ambient sound in audio signal associated with e.g. voice note recording feature of e.g. hand held electronic device, involves receiving audio signal including user voice in device](#)
Assignee: APPLE INC
Inventor(s): LINDAHL A, PAQUIER B P
Citing Patents: 0

4.

US2011302347-A1

2011-Q03317

Title: [Method for facilitating compatibility testing and determination based on classes of e.g. mobile computing device communicably coupled with in-vehicle media system, involves receiving test result information about accessory](#)
Assignee: APPLE INC

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COMPUTER SCIENCE (237)

COMMUNICATION (168)

INSTRUMENTS & INSTRUMENTATION
(147)

CHEMISTRY (15)

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▼ Assignee Names

Refine

APPLE INC (283)

☐ 1. US20111305875-A1
Title: Glass cover providing method for e.g. electronic device, involves grinding surface of cover to create spline along s...
cover and chamfer
Assignee: APPLE INC
Inventor(s): SANFORD E, LYNCH
Citing Patents: 0
[→ Original](#)

☐ 2. US20111297183-A1
Title: Method for removing e.g. h...
device, involves facilitating remo...
wetting angle between foreign p...
Assignee: APPLE INC

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COMMUNICATION (166)

INSTRUMENTS & INSTRUMENTATION
(147)

CHEMISTRY (15)

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Refine

■ APPLE INC (283)

- ☐ 1. US20111305875-A1 2011-Q44288
Title: Glass cover providing method for e.g. electronic device, involves grinding surface of cover to create spline along surface, inserting cover into polishing structure, and polishing surface of cover and chamfer
Assignee: APPLE INC
Inventor(s): SANFORD E, LYNCH S B, MONTEVIRGEN A S et al
Citing Patents: 0
[Original](#)

☐ 2. US2011297183-A1 2011-Q00841
Title: Method for removing e.g. human skin oil adhered to display of e.g. electronic device, involves facilitating removal of foreign particle from surface of outer component by increasing wetting angle between foreign particle and surface
Assignee: APPLE INC

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Simulation method for states of mechanical button on touch- sensitive input device - detecting intervals when user contacts touch sensitive input, and gap intervals between subsequent contact intervals, and moving cursor on display based on detected intervals

Patent Number(s): WO9624095-A^{Original} ; WO9624095-A1^{Original} ; AU9646528-A ; US5764218-A^{Original}

Inventor(s): DELLA BONA M A, DORFMAN J, HAMLIN J F

Patent Assignee Name(s) and Code(s): APPLE COMPUTER INC(~APPY-C)

Derwent Primary Accession Number: 1996-371606 [72]

Citing Patents: 20 | Patents Cited by Examiner: 13 | Articles Cited by Examiner: 6

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全記錄

Handheld electronic device e.g. computer has cover that is attached to seamless housing without bezel and arranged within cavity of front opening provided in housing

Patent Number(s): WO2010027565-A2 [Original](#); US2010061040-A1 [Original](#); US2010061055-A1 [Original](#); US7697281-B2 [Original](#); CN201491423-U; US2010146766-A1 [Original](#); US7869206-B2 [Original](#); WO2010027565-A3 [Original](#); AU2009288594-A1; CA2735999-A1; IN201100928-P2; EP2329335-A2 [Original](#); KR2011051277-A; MX2011002425-A1; AU2011203145-A1; CN201976357-U; KR2011107412-A; CN102187297-A; KR1088993-B1

Inventor(s): DABOV T, LIM H, LYNCH S B, YEATES K, LIM H L, LYNCH S

Patent Assignee Name(s) and Code(s): APPLE INC (APPY-C)

Derwent Primary Accession Number: 2010-C66687 [82]

Citing Patents: 4

Patents Cited by Examiner: 16

Abstract: NOVELTY - The handheld electronic device (10) has a seamless housing (100) having a front opening (108), an integral bottom and sidewalls forming a cavity. The bottom wall has a curved bottom surface and sidewalls form a curved side surface and an edge of the sidewalls surrounding the opening. A cover (106) arranged within cavity of the opening and attached to the housing without bezel. A flat top surface of the cover covers the upper surface of the edge of the sidewalls.

USE - Handheld electronic device such as computer, telecommunication device and personal digital assistant (PDA). Can also be used in game player, video player and media player such as iPod, iPod Nano, iPod Shuffle and iPod Touch (RTM: portable media player), iPhone (RTM: internet and multimedia-enabled smartphone).

ADVANTAGE - Since the cover is attached the seamless housing without the bezel, number of components required for assembly of the electronic device can be reduced and appearance of the device can be enhanced. Since the seamless housing is formed of the stainless steel, electrical grounding for built-in antenna can be provided efficiently and electromagnetic interference or electrostatic discharge can be eliminated.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of electronic device.

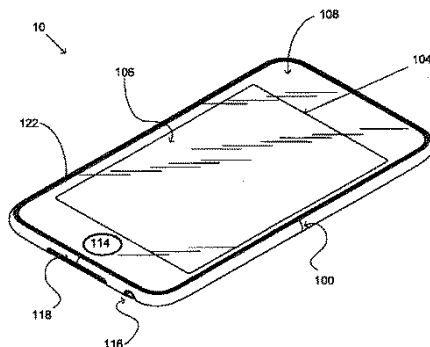
Handheld electronic device (10)

Seamless housing (100)

Display screen (104)

Cover (106)

Front opening (108)



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Drawing:

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全記錄：

描述性專利標題

各國專利號

專利發明人

專利權人

Derwent優先入藏號

專利被引用情況

引用情況

引用期刊論文情況

描述性摘要

專利圖示

International Patent Classification: H01J-001/30; H01J-009/02; B82B-001/00; B82B-003/00; H01J-001/304; H01J-019/24; H01J-009/12; B01J-020/20; C01B-003/00; C01B-031/02; H01J-023/05; H01J-025/38; H01J-029/04; H01J-031/12

Derwent Class Code(s): L03; V05; W02; X16; X21

Derwent Manual Code(s): L03-C02; L03-H05; V05-L01A3A; V05-L05B5; V05-L05D1; W02-G03A3; X16-C; X21-A01F; X21-B01A

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
EP1022763-A					
EP1022763-A1	26 Jul 2000	H01J-009/02	200049	Pages: 18	English
AU200012515-A	27 Jul 2000	B82B-001/00	200049		
CA2295290-A1	25 Jul 2000	H01J-001/304	200051		English
JP2000223005-A	11 Aug 2000	H01J-001/304	200053	Pages: 13	
US6283812-B1	04 Sep 2001	H01J-009/02	200154		
EP1022763-B1	06 Oct 2004		200466		English
DE60014461-E	11 Nov 2004		200474		
DE60014461-T2	09 Mar 2006		200622		

Application Details:

EP1022763-A1	EP300369	19 Jan 2000
AU200012515-A	AU012515	20 Jan 2000
CA2295290-A1	CA2295290	10 Jan 2000
JP2000223005-A	JP015645	25 Jan 2000
US6283812-B1	US236933	25 Jan 1999
DE60014461-E	DE614461	19 Jan 2000
DE60014461-T2	DE614461	19 Jan 2000

Further Application Details:

DE60014461-E	Based on	Patent	EP1022763
DE60014461-E	EP application	Application	EP300369
DE60014461-T2	Based on	Patent	EP1022763
DE60014461-T2	EP application	Application	EP300369

Priority Application Information and Date:

US236933	25 Jan 1999
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Designated States:

EP1022763-A1:
(Regional): AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LT; LU; LV; MC; MK; NL; PT; RO; SE; SI
EP1022763-B1:
(Regional): DE; FR; GB

Field of Search: x; 45524; 45551; H01J009/02

全記錄：
國際專利分類號
Derwent分類號
Derwent手工代碼
專利家族
專利申請細節和日期
專利優先項
專利申請國家



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# 30	10	Derwent Manual Code=(T01-C02B1D) AND Assignee Name & Code=(APPY) Databases=CDerwent, EDerwent, MDerwent Timespan=All Years	☐	☐	☐	☐
# 29	73	Topic=(touch pad) AND Assignee Name & Code=(apple) Databases=CDerwent, EDerwent, MDerwent Timespan=All Years	☐	☐	☐	☐
# 28	283	Topic=(iphone) AND Assignee Name & Code=(apple) Databases=CDerwent, EDerwent, MDerwent Timespan=1967-2012	☐	☐	☐	☐
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結果 主題=(iphone) AND 專利權人名稱與代碼=(APPLE INC)

時間範圍=所有年份。資料庫=CDerwent, EDerwent, MDerwent。

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- ☐ INSTRUMENTS & INSTRUMENTATION (249)
- ☐ CHEMISTRY (26)

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專利權人名稱

- ☐ APPLE INC (448)
- ☐ APPLE COMPUTER INC (7)
- ☐ CAPELA J C (6)

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分析結果



US2009257379-A1; US8265017-B2

2009-P85675

標題: Portable device e.g. handheld computer, operating method, involves operating Wireless fidelity compliant air interface of device so that device defaults to power saving mode when device is not in use

專利權人: ROBINSON M A, CHEN C, TOLENTINO J, et. al

發明人: CHEN C, ROBINSON M A, TOLENTINO J

引用專利: 14

原始



US2009175425-A1

2009-L26199

標題: Outgoing voice mail messages accessing method, involves recording audio file corresponding to voice message left by user, linking audio file to contact information associated with recipient, and providing user access to audio file

專利權人: APPLE INC

發明人: LEE M M

引用專利: 12

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圖例：  = 有可用結構。

Chen,...	Portable device e.g. handheld computer, operating method, i...
Dabo...	Handheld electronic device e.g. computer has cover that is at...
Lee, ...	Outgoing voice mail messages accessing method, involves re...

Reference	Preview
Reference Type: Patent	Hide Empty Fields
Rating * * * * *	
Inventor Lee, M. M.	
Year 	
Title Outgoing voice mail messages accessing method, involves recording audio file corresponding to voice message left by user, linking audio file to contact information associated with recipient, and providing user access to audio file	
Issuing Organization 	
Published Source 	
Country 	
Assignee Apple Inc (Appy)	
Patent Version Number 	
US Patent Classification 	
Application Number 	

There are no PDFs attached to this reference.

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