

Derwent Innovations IndexSM 使用手冊

超越檢索 分析 - 管理 - 發現



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Derwent Innovations Index SM 權威專利情報資源 推動科技 創新

Derwent Innovations Index是一項研究工具，透過網路提供超過 21,747,865 項專利，並提供被引用和引用專利、被引用文獻和全文專利資料來源的連結。

Derwent Innovations Index開啓對所有層級的機構檢索專利的能力，您只要輸入簡單檢索查詢，即可瀏覽專利記錄。範圍涵蓋 Derwent World Patents Index 中的專利記錄和 Derwent Patents Citation Index 中的專利引用資訊。

Derwent Innovations Index還包含Derwent Chemistry Resource(需要另外訂閱)，這是一個獨特的資料庫，其中包含您可透過輸入化學檢索字詞和/或化學結構來檢索的化學結構。

Derwent Chemistry Resource讓您可以瀏覽化學結構資料庫，發展出化合物結構的新構想，以及瞭解市面上的新化合物。

特點

- 以專利權屬人、專利發明人、主題詞為簡單的檢索入口，快速獲取基本資訊，以節省時間。
- 輔助檢索工具幫助您迅速找到相關的手工代碼（Derwent Manual Codes）和分類代碼（Derwent Class Codes）並且透過點選滑鼠直接將對應的代碼添加到檢索欄中，直接進行檢索。
- Derwent 重新編寫的描述性標題與摘要，使您避免面對專利說明書翰有摘要與標題的晦澀難懂，迅速瞭解專利的重點內容，很快判斷是否是自己所需的資料。
- Derwent 特有的深度索引，幫助您增加檢索的相關度，避免大量無關記錄的出現。
- 檢索結果列表中列有每筆專利對應的主要發明圖，可以幫您迅速看到專利的主要圖像資料。
- Email Alert 服務，幫您及時掌握行業內最新的專利申請情況。
- 檢索輔助工具可以幫助您迅速查找相關的 Derwent 專業索引項。

用途

- 對於圖書館研究館員、系主任、教職員工和學生：為他們提供了廣泛深入的技術資料，迅速掌握研究前提。
- 公司和政府圖書管理員：查閱本機構感興趣的行業領域內的熱門資訊，指導研發方向，幫助研究人員保護知識產權，並且密切關注競爭對手/國際機構的研究活動。
- 學術管理員：與相關研究領域內的公司建立夥伴關係，幫助學生獲得新產品研究資助，給予學校一部分專利收益，幫助招生辦公室錄取研究生，並且評估教授的研究績效。
- 研究人員：產生靈感和創新，作為期刊研究文獻的重要補充，保護知識產權，為獨立研究取得更多資助，並獲得認可。

- 執行管理：獲取本公司所在行業領域內的最新專利資訊，制定市場營銷/產品策略，協助研發確定方向和取得進展，並瞭解競爭者的研究活動和發展。

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Example: recharg* lithium batter* in Topic

AND Von Oepen R or Oepen R V in Inventor [Select from Index](#)

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- at least 1 alpha character, case-sensitive
- at least 1 symbol: ! @ # \$ % ^ * () ~ ' { } [] | & _

Example: 1sun%moon

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* - 可代表零個到多個字母

範例：Gene*可檢索Gene, Genes, General, Generation

? - 代表一個字母

範例：Car? 可檢索Cars, Care

\$ - 代表零個或一個字母

範例：Cell\$可檢索Cell, Cells, Cello

布林邏輯

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AND

OR

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2. 發明人 (Inventor) :

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手工代碼是由Derwent的專業人員為專利標引的代碼。代碼可用於顯示一個發明中的新穎技術特點以及其應用。利用手工代碼進行專利的檢索可顯著改進檢索的速度和準確性。輸入**H01-B*** 可找到石油/鑽井領域的專利記錄，輸入 **H01-B01*** 可找到所有有關海上石油鑽探設備結構與儀器領域的專利。

7. Derwent入藏登記號 (Derwent Primary Accession Numbers) :

可檢索專利記錄中的Derwent入藏登記號欄位。入藏號登記號 (PAN) 是由Derwent為每一個專利家族中的第一筆專利記錄指定的唯一識別號，也是該專利家族所指定的唯一編號。每個號碼的組成是一個四位數的年號，隨後是“-”，以及一個六位數的序列號。即 **YYYY-NNNNNN** 格式 (例如，**1999-468964**)。登記號後還有一個兩位數的更新號用以標示Derwent出版該專利文摘的日期。當使用切截檢索PAN 號時，應將切截放在9位號碼之後。例如：**1999-52791*** 可檢索到若干記錄，而**1999-5279*** 則檢索不到結果。

Search Aids 檢索的輔助索引

在Assingee, Inventor, International Patent Classification, Derwent Class Code和Derwent Manual Code檢索欄位中都提供了檢索輔助工具。這些輔助工具在一般檢索和進階檢索頁面均可使用。

Derwent Innovations IndexSM

Search

Example: Von Oepen R or Oepen R V

AND in [Select from Index](#)

Example: G06F-001/16

AND in [Select from List](#)

Example: T04

AND in [Select from List](#)

Example: T01-L02

AND in [Select from List](#)

Example: XEROX CORP or XERO

[Add Another Field >>](#)

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Derwent Innovations IndexSM

Derwent Manual Codes

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

Enter text to find a manual code.
Example: oil* to find B04-B01C3 MINERAL OILS AND WAXES

[Find](#)

Browse Derwent Manual Code Hierarchy
KEY: [Add](#) = add to query [S](#) = view substance details

- Section A: Plasdoc
- Section B: Farmdoc
- 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](#)

您可以選擇分類體系瀏覽檢索詞或者在框中輸入檢索詞彙。截詞使用星號 (*). 可以輸入片語、或者利用 AND, OR, NOT 搭配多個檢索詞。

Transfer your selected code(s) below to the Derwent Manual Code field on the Search page. [OK](#) [Cancel](#)

Derwent Innovations IndexSM

Derwent Manual Codes

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

Enter text to find terms manual code.

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

點選 'H' 瀏覽檢索詞的上位分類。
可以幫助讀者瞭解該詞具體使用的
範疇。

Results Page 1 (Terms 1 - 4 of 4)



KEY: = add to query = view in hierarchy = view scope notes

- | | | | |
|------------------------------------|----------------------------------|---------|---|
| <input type="button" value="Add"/> | <input type="button" value="H"/> | D03-J05 | MACHINERY FOR WASHING FRUIT (1972-) |
| <input type="button" value="Add"/> | <input type="button" value="H"/> | D03-J08 | MACHINERY FOR WASHING VEGETABLES (1972-) |
| <input type="button" value="Add"/> | <input type="button" value="H"/> | F03-J01 | WASHING MACHINES (1977-) |
| <input type="button" value="Add"/> | <input type="button" value="H"/> | X27-D01 | WASHING MACHINES (1983-) |

Results Page 1 (Terms 1 - 4 of 4)

點選Add按鈕將該檢索詞加入到螢幕下方的欄位中。
當添加完檢索詞之後，點選OK 返回到檢索頁面。

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在檢索結果頁面，您可以輸入主題(題名、摘要、關鍵字或附加關鍵字Keyword Plus)在此次檢索結果中進一步查詢，而不需要結合不同的檢索條件進行查找，同時系統會產生新的檢索結果頁面。

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Refine Results

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- ☐ ENGINEERING (52,576)
- ☐ CHEMISTRY (36,123)
- ☐ MATERIALS SCIENCE (18,852)
- ☐ POLYMER SCIENCE (10,052)

[more options / values...](#)

▼ Assignee Names

- ☐ LG ELECTRONICS INC (5,501)
- ☐ MATSUSHITA DENKI SANGYO KK (3,263)
- ☐ TOSHIBA KK (2,395)
- ☐ SAMSUNG ELECTRONICS CO LTD (2,256)
- ☐ MATSUSHITA ELEC IND CO LTD (1,681)

您可以用重新排序檢索結果，依照：

- Latest date(最近日期)
- Inventor(發明者)
- Publication Date(出版時間)
- Patent Assignee
- Name(專利權人名稱)
- Patent Assignee
- Code(專利權人代碼)
- Times Cited(被引用次數)
- Derwent Class Code(分類號)

排序最多十萬筆記錄

點選Analyze Results分析您的檢索結果

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2013-M11878

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◀ Page 1 of 7,642 Go ▶▶

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Derwent Innovations IndexSM

Results Topic=(washing machin*)
Timespan=All years. Databases=CDerwent, EDerwent, MDerwent.
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Results: 76,418 Page 1 of 7,642 Go Sort by: Latest Date

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- ☐ ENGINEERING (52,578)
- ☐ CHEMISTRY (36,123)
- ☐ MATERIALS SCIENCE (18,852)
- ☐ POLYMER SCIENCE (10,052)

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▼ **Assignee Names** [Refine](#)

- ☐ LG ELECTRONICS INC (5,501)
- ☐ MATSUSHITA DENKI SANGYO KK (3,263)
- ☐ TOSHIBA KK (2,395)
- ☐ SAMSUNG ELECTRONICS CO LTD (2,256)
- ☐ MATSUSHITA ELEC IND CO LTD (1,681)

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▶ **Assignee Codes**

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☐ 2. WO2013111589-A1
Title: Front loading tilt axis drum-type washing-drying machine has fan accommodating unit with upper portion located above lower end portion of water-tank rear section, so that axial center direction of shaft of fan is extended to front side
Assignee: PANASONIC CORP
Inventor(s): HOSOKAWA A, NAKANISHI K
Citing Patents: 0
[Original](#)

☐ 3. WO2013111205-A1
Title: Electric equipment e.g. washing machine has determination unit that determines content with respect to inquiry signal, and transmission unit which transmits content determined by content determination unit to information terminal
Assignee: PANASONIC CORP
Inventor(s): KAMON K, KURIMOTO K, KUROYAMA K, et al.
Citing Patents: 0
[Original](#)

☐ 4. JP 2013140590-A
Title: Machine for filtering lifestyle water e.g. sludge-disposal water, has steering-wheel fixed around stirring blade, and assembly-type frame whose outer peripheral surface is provided with impermeable folding-type cylinder
Assignee: YAMASHITA T, ASAHI SEIKI KK, ZEOSORB KK
Inventor(s): YAMASHITA T, MIZUTANI S, MORIKAWA H
Citing Patents: 0
[Original](#)

☐ 5. JP2013147917-A
Title: Wash water discharge device for use in toilet has water discharge container is provided with sludge effect and base

點選箭頭可展開或隱藏該分析欄位中更多項目

Analyze Results 分析檢索結果

All Databases | **Select a Database** | Derwent Innovations Index | **Additional Resources**

Search | Cited Patent Search | Compound Search | Advanced Search | Search History | Compound Marked List (0)

Derwent Innovations IndexSM

Results Topic=(washing machin*)
Timespan=All years. Databases=CDerwent, EDerwent, MDerwent.
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Results: **76,418** Page 1 of 7,642 Go Sort by: Latest Date

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76,418. Topic=(washing machin*)

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☒ Assignee Name ☐ Assignee Code ☐ Inventor ☐ International Patent Classification Code	Up to 500	Show the top 10 results. Minimum record count (Threshold): 2	☒ Record count ☐ Selected field

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Note:The number of records displayed may be less than the listed Record Count if the original set contained

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☒ View Records ☒ Exclude Records	Field: Assignee Name	Record Count	% of 500	Bar Chart	Save Analysis Data to File
☒	MATSUSHITA DENKI SANGYO KK	34	6.8000 %		
☐	ARCELIK ANONIM SIRKETI	13	2.6000 %		
☐	LG ELECTRONICS INC	13	2.6000 %		
☐	PANASONIC CORP	11	2.2000 %		
☐	SAMSUNG ELECTRONICS CO LTD	10	2.0000 %		
☐	HAIER GROUP CO	9	1.8000 %		
☐	SHARP KK	9	1.8000 %		
☐	ELECTROLUX HOME PROD CORP NV	8	1.6000 %		

分析檢索結果可以儲存起來並匯入到其他軟體中使用

在 Derwent Innovarion Index 中可供分析的欄位有多種：

■ 專利權人名稱 (Assignee Name)、專利權人代碼 (Assignee Code)：

瞭解在您關心的技術領域，有哪些公司或者機構申請了專利？

在這一技術領域裏誰申請的專利最多？

■ 發明人 (Inventor)：您所關心的技術都是由哪些發明人發明的？

■ 國際專利分類號 (International Patent Classification Code)：

您所關心的技術領域，通常使用哪個國際專利分類號進行索引？

■ Derwent分類代碼 (Derwent Class Code)：

如何瞭解某項技術是如何跨學科進行發展和應用的？

■ Derwent手工代碼 (Derwent Manual Code)：

您所關心的某項技術，通常使用哪個Derwent手工代碼進行索引？您所關心的某項技術，主要集中在哪些領域？

Derwent Innovations IndexSM 全記錄中的欄位

- **Patent Number(s)** (專利號)

專利號是由專利授予機關授予，和每份專利文獻匹配的序列號。Derwent輸入兩個字元的WIPO國家代碼，然後是序列號（10 個位元組以內）以及表示文獻類型和出版項的代碼。例如：WO200079505-A1；AU200056327-A；US6296489-B1。

- **Title** (題名)

Derwent做出簡潔描述性的英文題名以突出專利說明書中表示的發明內容和新穎特點。

- **Inventor (s)** (發明者姓名)

發明者姓名以姓氏首字母縮寫的形式出現。姓最多有30 個字元，後加一個空格和最多三個首字母縮寫。如：BLASS L，ELDER P，BLASS L J，ELDER P H。

註：1992 年以前的記錄規定發明者最多八個，前蘇聯的專利最多三個。1978 至1980 年間發明者最多三個，每個姓名最多10 個字元。日本籍發明者不包括在內。

- **Patent Assignee Name(s) and Code(s)** (專利權人姓名和代碼)

爲了標準化公司名稱，Derwent爲全球21000 多個公司分配了一個唯一的4個字元代碼。這些公司被認爲是標準的公司，會經常性申請大量專利。可利用這些代碼來檢索子公司和相關的機構。其它公司和個人專利權人會被賦予一個非標準的4 子元代碼，這個代碼不是唯一的。專利權人代碼的顯示方式是：

ABCD-C (標準公司)

ABCD-N 非標準

ABCD-R 前蘇聯的機構

ABCD-I 個人

- **Derwent Primary Accession Number** (Derwent 入藏號)

每一專利家族的第一個專利都會被Derwent分配一個唯一的識別碼，也因此創建了此家族在資料庫中的記錄。識別碼的形式是出版年加六個位元組的序列號(YYYY-

NNNNNN)。方括號 “[]” 中的兩個位元組代表Derwent出版專利文摘的時間。如：

2001-580453 [65]

- **Patents Cited by Inventor / Examiner Link** (被發明者/審查員引用專利連結)

顯示被某一發明者或專利審查員引用的專利數量。點選數字可查看被引專利概要頁面。

如果某個被引專利的連結顯示“0”，那麼此連結將不可用。

- **Citing Patents Link** (引用專利連結)

顯示該專利家族被其他專利家族引用的數量。點選數量連結查看引用專利概要頁面。如

果引用專利連結下顯示“0”，則說明當前記錄中的專利家族尚未被引用。

- **Articles Cited by Inventor / Examiner Link**（被發明者/審查員引用的文獻連結）

顯示發明者或審查者引用的非專利文獻數量。點選數字可查看被引文獻概要頁面。如果某一被引文獻連結顯示“0”，則此連結將不可用，因為此筆專利沒有引文或者引文沒有被索引到資料庫中。

- **Abstract**（摘要）

Derwent在對專利聲明和公佈事項研究過後做出摘要。摘要由英文寫成，簡潔、準確、相關度高並覆蓋聲明中涉及最廣泛的發明範圍。摘要還包括其他專案，如新穎性、詳細描述、用途、優點等等，視具體專利而定

註：由於歷史原因，Derwent專利索引採用英式拼寫，但是摘要中也出現美式拼寫

（Title/題名的情況也是如此）。為保證檢全率，兩種情況都要考慮。舉例參見英美詞典。題名和文摘中的縮略語還可參見《Derwent標準縮略語詞表》。

- **Equivalent Abstract**（等同摘要）

如果專利記錄中含有等同摘要資訊，可點選“顯示Equivalent Abstract”按鈕顯示。等同摘要是同一種發明的相關專利，作為不同授予機關的專利，它有著相同的優先權申請日期。此摘要由Derwent在研究專利權利要求和公開資訊之後完成。在某些情況下，等同摘要與摘要完全相同，但是由不同的專利授予機關授予的。還需注意的是文本中的變化是英美拼寫不同造成。

- **Technology Focus/Extension Abstract**（焦點技術摘要/擴展摘要）

在專利記錄中需提供技術焦點/擴展摘要和相關資料。

※ 技術焦點：此為可選摘要。它覆蓋了除發明的核心技術以外的其他相關技術的資訊。技術焦點摘要概述了實施該發明的最佳技術方案等資訊。這樣讀者就可以快速對其核心技術領域以外的文獻做出判斷。摘要可以按照子標題排序，如農學、生物學、生物技術等。

※ 擴展摘要：此亦為可選摘要，只當原始專利文獻細節充分時才出現。可將它與技術焦點共同作為閱讀物件以獲取完整資訊。擴展摘要的標題段落是單獨的，以更加易懂的方式表達專利內容。對於想要避免法律術語的干擾而獲取專利的細節概要資訊之科學家和工程專家而言，這是一種理想的方式。

- **Drawing**（圖表）

如果原文提供的話，則選擇專利中的圖形、圖表來描述發明中的重要部分。此欄位針對1992年以來的化學專利和1988年以來的電子電氣工程專利。

- **International Patent Classification**（IPC，國際專利分類法）

是由世界知識產權組織（WIPO）頒佈的國際通行之專利分類系統。IPC 覆蓋了所有的技術領域，是精確檢索專利的有用系統。

- **Derwent Class（Derwent分類號）**

Derwent分類法是適用於所有專利的獨特分類法。所有的技術領域被分為20 類：

A — M (化學)

P — Q (工程)

S—X (電工)

每一領域都被分為3個字元的子類。A—M 和S—X 由Derwent主題專家使用。工程類P—Q 的類號由IPC 自動賦予。如：P85 (教育學、密碼學、廣告)；T01 (數位電腦)；W04(視聽錄音系統)。

- **Derwent Manual Code(s)（Derwent手工代碼）**

此號由Derwent索引專家分配，用來顯示一項發明的某些新穎性及其應用。運用手工代碼構造更詳細的檢索策略可以顯著提高檢索速度和準確度。

- **Patent Details（專利細節）**

- **Patent Number（專利號）**

由專利授予機關分配給每一個專利文獻的序列號。

- **Patent Publication Date（專利公告日期）**

此日期是專利文獻公開發行的日期。格式為NN MMM YYYY。其中“NN”為日，“MMM”為月，“YYYY”為年。

- **Main IPC（IPC 主類號）**

專利的類號依據世界知識產權組織（WIPO）提出的等級分類法。

- **Week（入庫周次）**

表示資料入庫周次。格式為YYYYWW，其中“YYYY”為年份，“WW”為周次(如：200120)。

- **Page Count（頁數）**

代表原始專利文獻。

- **Language（語言別）**

反映原始專利語言別，但是只適用於一項專利能夠以一種語言出版的地方。如：歐洲國家的專利可以英語、法語或德語出版。在整個專利家族中，一些專利可能以多種語言出版。

- **Application Details and Date（申請細節及日期）**

申請號碼是由專利局為專利文獻分配的本地專利歸檔號碼。申請日期或歸檔日期是申請

歸檔到專利局的日期。專利的申請通常在申請者本國的專利局進行。

- **Further Application Details**（更多申請細節）

專利申請的附加資訊出現於此欄位。例如：三種類型持續申請的資訊在此欄位出現：繼續申請、部分繼續申請案、分案。

※ 繼續申請：首次專利申請未決時，提出了二次申請或者後來的申請。繼續申請必須與首次申請有相同的申請權項才能享受相同的申請日期。

※ 部分繼續申請：被縮寫為 (CIP)，部分繼續申請與繼續申請比較相似，但是還可以包括一些原專利中沒有的新材料。專利的公開經常會被擴大，而部分繼續申請可以申請相同或不同的發明。CIP 申請中與原申請相同部分的主題之保護受益日期按照首次申請的歸檔日期而定。當首次申請因揭示材料與來源有相同之處而未被批准時必須做CIP 歸檔。

※ 分案：如果專利局認為一項申請覆蓋面過大而不能視為一項單獨的專利，那麼這項申請將被分解成一個或者多個分案申請。分案申請與原申請有著相同的說明書但是不同的發明權項。

- **Priority Application Information and Date**（優先申請資訊及日期）

巴黎協定的優先權條款規定：一項申請可以於**12** 個月以內在一個或幾個締約國登記。在這種情況下，原始申請號碼就成為優先申請號碼。相同地，原始申請日期也成為了優先申請日期。

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※ **Field of Search**（檢索領域）：標示專利審查員運用哪些國際或美國分類號來檢索主題領域，以保證發明的新穎性、創造性。

記錄示例 – 被引專利 (Patent Cited by Inventor/Examer)

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Patents Cited by Examiner

Title: Electronic appliance semiconductor device manufacture by forming semiconductor film co
heating gate electrode by irradiation of light to form two regions in semiconductor film
Assignee: SEMICONDUCTOR ENERGY LAB
Inventor(s): AKIMOTO K, HONDA T, SONE N, et al.
Timespan=All years.

此頁面顯示發明人/審查員在發明/審查該發明時引用的專利。由於每一條記錄代表一個專利家族，因此被引專利的列出按發明/審查不同專利。

Cited Patents: 2		Page 1 of 7 Go		
Citing Patent	Cited Patent	Category Code	Assignee	Inventor
CN101552210-B	☐ US2003107023-A1: Etchant, for etching different metal layers for forming thin film transistors, comprises hydrogen peroxide, and carboxylic acid, carboxylate salt or acetyl group		LG PHILIPS LCD CO LTD (GLDS-C)	CHAE G S; JO G C; HWANG Y S
	☐ US2005017302-A1: TFT used as switch, for display, comprises deposited thin-film channel region having portion doped with impurity to change fixed charge density, within portion relative to remainder of channel region		HOFFMAN R (HOFF-Individual)	HOFFMAN R
	☐ US2005127380-A1: Transistor for semiconductor device comprises transparent channel layer of e.g. zinc oxide		JAPAN SCI&TECHNOLOGY CORP (JSTA-C)	KAWASAKI M; OHNO H
	☐ WO2004114391-A1: Semiconductor device, useful as switching component of electronic device, has active layer containing specific semiconductor and element, and isolation component in preset arrangement		SHARP KK (SHAF-C); OHNO H (OHNO-Individual); KAWASAKI M (KAWA-Individual)	OHNO H; KAWASAKI M; SUGIHARA T
EP1770788-A2	☐ JP62098774-A: Mfr. of thin transistor with reduced crystal granularity		RICOH KK (RICO-C)	
	☐ US5943593-A: Thin film semiconductor device		SONY CORP (SONY-C)	
	☐ US6569716-B1: Polycrystalline silicon thin film transistor		SANYO ELECTRIC CO LTD (SAOL-C); SONY CORP (SONY-C)	
	☐ US2003143784-A1: Thin film manufacturing method for etching thin film		MATSUSHITA ELECTRIC IND CO LTD (MATU-C)	NISHITANI M; GOTO M
	☐ US2003218221-A1: Field effect transistor for, e.g. active-matrix liquid-crystal display, comprises gate insulator layer comprising transparent material and adjacent to channel layer to define channel layer/gate insulator layer interface		US GOVERNMENT (USGO-C)	WAGER J F; HOFFMAN R L

顯示在發明/審查專利CN101552210-B時引用的專利列表

顯示被引用的專利號，點選專利號可直接連接到文獻的全記錄。

記錄示例 – 被引用文獻 (Articles Cited by Inventor/Examiner)

Derwent Innovations IndexSM

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Articles Cited by Examiner Title: Electronic appliance semiconductor device manufacture by forming semiconductor film comprising oxide semiconductor and overlaps with gate electrode and heating gate electrode by irradiation of light to form two regions in semiconductor film
Assignee: SEMICONDUCTOR ENERGY LAB
Inventor(s): AKIMOTO K, HONDA T, SONE N, et al.
Timespan=All years.

Articles: 34

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Citing Patent	Category Code	Citing Articles
EP1770788-A2		DEHUFF N ET AL: "Transparent thin-film transistors with zinc indium oxide channel layer", JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, US, vol. 97, no. 6, 11 March 2005 (2005-03-11), pages 64505-064505, XP012070894, ISSN: 0021-8979, DOI: 10.1063/1.1862767 FORTUNATO E ET AL: "Recent advances in ZnO transparent thin film transistors", THIN SOLID FILMS, ELSEVIER-SEQUOIA S.A. LAUSANNE, CH, vol. 487, no. 1-2, 1 September 2005 (2005-09-01), pages 205-211, XP025388304, ISSN: 0040-6090 [retrieved on 2005-09-01] ISHIMIZU ET AL: "Enhancement-mode thin-film field-effect transistor using phosphorus-doped (Zn,Mg)O", JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, NY, US, vol. 84, no. 14, 5 April 2004 (2004-04-05), pages 2685-2687, XP012061036, ISSN: 0021-8979, DOI: 10.1063/1.164505 ISHIMIZU ET AL: "A New Bottom-Gated Poly-Si Thin-Film Transistor", IEEE ELECTRON DEVICE LETTERS, IEEE, NEW YORK, NY, US, vol. 20, no. 1, 1 January 2001, XP011018562, ISSN: 0741-3106 ISHIMIZU ET AL: "Ferroelectric-gate thin-film transistors using indium-tin-oxide channel with ferroelectric gate dielectric", JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS, MELVILLE, NY, US, vol. 86, no. 16, 12 April 2005 (2005-04-12), pages 162902-162902, XP012065128, ISSN: 0003-6951, DOI: 10.1063/1.1905800
US7674650-B2		Application transmittal, specification and drawings filed in related U.S. Appl. No. 12/542,068 on Aug. 17, 2009. Chinese Office Action re application No. CN 200610141329.5, dated Apr. 17, 2009 (with English translation). Elvira M.C. Fortunato et al., "Wide-bandgap high-mobility ZnO thin-film transistors produced at room temperature", Applied Physics Letters, vol. 85, No. 13, Sep. 27, 2004, pp. 2541-2543. Kamiya et al., "1a-F-5 Room Temperature Fabrication and Carrier Transport of Amorphous Semiconductor Exhibiting Large Electron Hall Mobilities 10 cm²/Vs", Extended Abstracts (The 65th Autumn Meeting 2004), The Japan Society of Applied Physics, No. 2, Sep. 1, 2004, pp. 791 (with English translation). Kimizuka, N. et al., "Syntheses and Single-Crystal Data of Homologous Compounds, In₂O₃(ZnO)_m (m=3, 4, and 5), InGaO₃(ZnO)₃, and Ga₂O₃(ZnO)_m (m=7, 8, 9, and 16) in the In₂O₃-ZnGa₂O₄-ZnO System", Journal of Solid State Chemistry, vol. 116, 1995, pp. 170-178. Li, C. et al., "Modulated Structures of Homologous Compounds InMO₃(ZnO)_m (M=In, Ga; m=Integer) Described by Four-Dimensional Superspace Group", Journal of Solid State Chemistry, vol. 139, 1998, pp. 347-355. Masuda, S. et al., "Transparent Thin Film Transistors Using ZnO as an Active Channel Layer and Their Electrical Properties", Journal of Applied Physics, vol. 93, No. 3, Feb. 1, 2003, pp. 1624-1630. Naoko Asakuma, et al. "Crystallization and reduction of sol-gel derived zinc oxide films by irradiation and ultraviolet lamp", Journal of Sol-Gel Science and Technology, vol. 26,

該頁面顯示發明人/審查員在發明/審查該發明時引用的文章。由於每一條記錄代表一個專利家族，因此被引文章的列出按發明/審查不同專利的列表。

顯示在發明/審查專利US7674650-B2時引用了哪些文章。

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記錄示例 - 引用專利 (Citing Patents)

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Assignee Names

- ☐ SEMICONDUCTOR ENERGY LAB (214)
- ☐ SAMSUNG ELECTRONICS CO LTD (13)
- ☐ YAMAZAKI S (7)
- ☐ CANON KK (8)
- ☐ SONY CORP (8)

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1. DE102012218310-A1; KR2013038175-A; US2013088468-A1; ...
Title: Semiconductor device for display device e.g. LCD device, has gate electrodes that are electrically connected through conductive thin film provided in layer in which gate electrodes are formed

Assignee: SEMICONDUCTOR ENERGY LAB

Inventor(s): SAKAKURA M, GOTO Y, MIYAKE H, et al.

Citing Patents: 0

Original

2. US2013009147-A1; WO2013008419-A1; JP2013110380-A

Title: Manufacture of oxide semiconductor film for semiconductor device, by heating oxide semiconductor film having indium oxide and/or zinc oxide by irradiation with energy beam so that oxide semiconductor film includes crystalline region

Assignee: SEMICONDUCTOR ENERGY LAB

Inventor(s): KOYAMA M, NEI K, SHIMOMURA A, et al.

Citing Patents: 0

Original

3. US2012280725-A1; US8363778-B2

Title: Driver circuit of display device e.g. LCD used in electronic alliance e.g. computer, has third transistor that is driven using configured amplitude voltage higher than power supply voltage for driving inverter circuit

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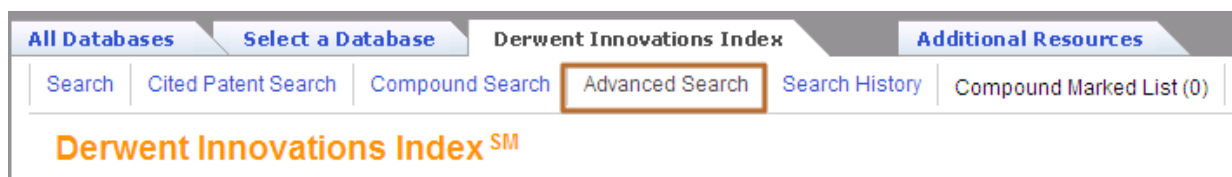
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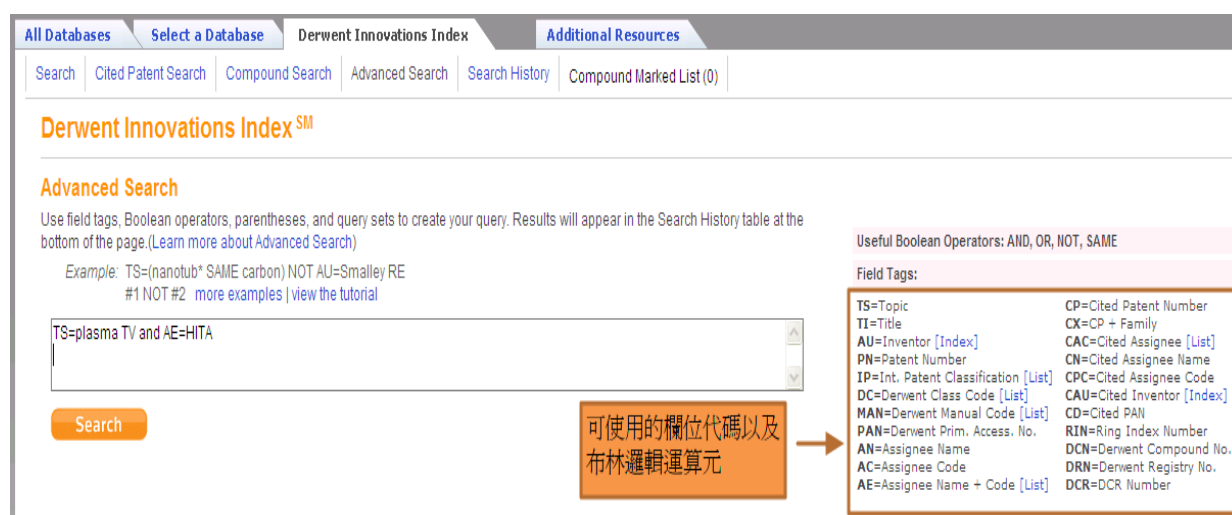
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