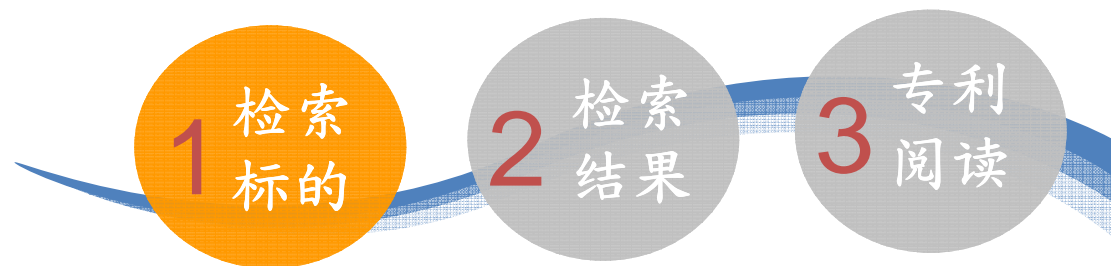
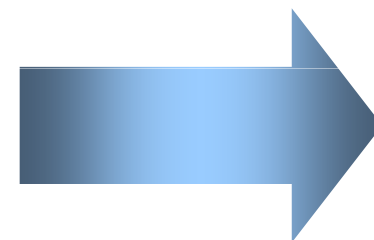


袋鼠专利检索-使用指南

1.检索标的





在不同页面有不同的Help



检索
标的

检索
结果

专利
阅读

如何输入检索标的？

专利局: US CN TW

专利类型: 发明专利 实用新型 外观专利

专利状态: 公开 公告

排序: 相关度 降序

免责声明:

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检索标的范例(1)

- 检索清华大学在碳纳米管(Carbon Nanotube)
领域的中国专利布局

AN/清华大学 and 碳纳米管

繁 简

an/清华大学 and 碳纳米管

AN/"英华达(上海)电子有限公司"

PTO: US CN TW

專利類型: 发明专利 实用新型 外观专利

專利狀態: 公開 公告

排序: 相關度 降冪

[高级检索](#)
[检索语法](#)
[个人化设置](#)

检索标的范例(2)

- 分析 **MIT** 在 碳纳米管 (Carbon Nanotube) 领域的 美国公告 专利布局

AN/"Massachusetts Institute of Technology" and
"Carbon Nanotube"

繁 简

AN/IBM AN/"Machines Corporation"

PTC: US CN TW

專利類型: Invention Design Plant Reissue SIR

專利狀態: 公開 公告

排序: 相關度 降冪

高級檢索
檢索語法
個人化設置



Kangaroo
袋鼠专利检索网

首页其它功能

繁 简

检索

专利局: US CN TW

专利类型: 发明专利 实用新型 外观专利

专利状态: 公开 公告

排序: 相关度 降幂

En 简 繁 日

- 1 高级检索
- 2 检索语法
- 3 个人化设置

高级检索

检索语法

个人化设置

免责声明:

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1. 高级检索

- 用户可使用高级检索进行专利检索，高级检索可选择专利局、专利状态、输入搜寻条件及日期

The image shows a screenshot of the Kangaroo patent search interface. The interface is divided into four numbered sections, each with a corresponding callout box on the right:

- 1 请选择专利局**: This section contains radio buttons for selecting a patent office: US, CN, and TW. A callout box labeled "专利局" (Patent Office) points to this section.
- 2 请选择专利状态**: This section contains a dropdown menu currently showing "公开和公告" (Published and Announced). A callout box labeled "专利状态" (Patent Status) points to this section.
- 3 请输入搜索条件**: This section includes a search input field with the example text "FULL/'bowling ball' LCD or Monitor". Below the input field are five rows, each with a "全文" (Full Text) dropdown menu and an empty search box. To the right of these boxes are four "AND" dropdown menus. A callout box labeled "搜索条件" (Search Conditions) points to this section.
- 4 请输入日期条件**: This section includes three rows for date conditions: "申请日期:" (Application Date), "公告日期:" (Announcement Date), and "公开日期:" (Publication Date). Each row has two input fields separated by a double arrow "-->". An example "ex.20020101 -> 20031231" is shown above the first row. A callout box labeled "日期条件" (Date Conditions) points to this section.

At the bottom of the interface, there are two buttons: "搜索" (Search) and "重设" (Reset).

2. 语法参考- 依专利号检索

- 依美国专利号检索时，不需输入**US00**，如检索专利号US007029751，则直接输入PN/7029751

PN	US	PN/20030143372	PN/(D618677 or D558757)
	CN	PN/200720066498.7	PN/ 2007200664*
	TW	PN/232571	

PN/7029751

繁 简

PN/7029751

PN/6816875 PN/68168*

PTO: US CN TW

专利类型: Invention Design Plant Reissue SIR

专利状态: 公开 公告

排序: 相关度 降幂

En 简 繁 日

检索

高级检索

检索语法

个人化设置

2. 语法参考-通用符号、惯用语

- 通用符号包含*及?

通用符号	说明	检索语法
*	可代表0~多个字元	Ex. PN/6816* Ex. AN/Microso* Ex. ISD/[19971101-->199805*]
?	可代表0 or 1个字元 *可同时输入多个	Ex. PN/681687? Ex. AN/Micros?f? Ex. ISD/[19971101-->1998051?]

- 专利中若出现惯用语，可使用“双引号”进行检索

The screenshot shows a patent search interface. At the top, there are two buttons: '繁' (Traditional Chinese) and '简' (Simplified Chinese). Below them is a search input field containing the query: `APD/[2010* ->2011*] and "Carbon nanotube"`. To the right of the input field is a blue button labeled '检索' (Search). Below the search bar, there are several search results, including `APD/[19971101-->19980512]`, `APD/19971101`, and `APD/197711*`. On the right side of the interface, there are three links: '高级检索' (Advanced Search), '检索语法' (Search Syntax), and '个人化设置' (Personalized Settings). At the bottom, there is a '排序' (Sort) section with a dropdown menu set to '相关度' (Relevance) and a '降序' (Descending) button. Below the sorting options are four buttons: 'En', '简', '繁', and '日'.

检索申请日期在2010-2011年 Carbon nanotube 相关专

2. 语法参考-依日期检索

- 针对公告日/申请日/公开日进行日期检索
- 日期检索常搭配着通用符号*

Ex. ISD/[19971101 -> 19980512]	→公告日期在1997/11/01~1998/05/31的專利
Ex. ISD/[19971101 -> 199805*]	→公告日期在1997/11/01~1998/05/31的專利
Ex. APD/[1997* -> 1998*]	→申請日期在1997/01/01~1998/12/31的專利
Ex. APD/199711*	→申請日期在1997年11月的專利
Ex. PD/19971101	→公開日是1997年11月1日的專利

The screenshot shows a patent search interface. At the top, there are two buttons labeled '繁' (Traditional Chinese) and '簡' (Simplified Chinese). Below them is a search input field containing the query 'ISD/2000* and IN/"fan shou shan"'. To the right of the input field is a blue button labeled '检索' (Search). Below the search field, there are several options: 'IN/"Seymour S...' (partially visible), 'PTO' (partially visible), '專利' (Patent), and '專利狀態: 公开 公告'. There are also dropdown menus for '排序: 相关度' (Sort: Relevance) and '降昇' (Sort Order). At the bottom, there are four buttons labeled 'En', '簡', '繁', and '日'. On the right side, there are three links: '高級检索' (Advanced Search), '检索语法' (Search Syntax), and '个人化设置' (Personalized Settings). An orange callout box with a white background and a black border is positioned over the search field, containing the text '检索公告日期在2000年后fan shou shan的专利' (Search for patents with announcement dates after 2000 for fan shou shan).

2. 语法参考下载



专利局: US CN TW

专利类型: 发明专利 实用新型 外观专利

专利状态: 公开 公告

排序: 相关度

下载语法参考

1. 语法参考列表

(*表示與美國專利局相同的欄目名)

名稱(中文)	名稱(英文)	簡稱	範例
專利名稱	*Patent Name	TTL	TTL/"Carbon nanotubes"
專利摘要	*Abstract	ABST	ABST/fuel ABST/"fuel injection"
權利要求	*Claim	ACLM	ACLM/tele ACLM/"data visualuzation"
專利描述	*Description/Specification	SPEC	SPEC/"artificial sugar" SPEC/(tele or Wireless)
專利號	*Patent Number	PN	PN/6816875 PN/68168*
公開號	*Document Number	DN	DN/1465226 DN/1465*
申請號	*Application Number	APN	APN/"11/217,170"
專利權人	*Assignee Name	AN	AN/IBM AN/" International Business Machines Corporation "
專利權人地址	Assignee Address	ANAD	ANAD/"union,ni" ANAD/"CN"
專利權人國家	*Assignee Country	CAN	ACN/CN ACN/(CN or US)
發明人	*Inventor Name	IN	IN/"Seymour Schlosberg"
發明人地址	Inventor Address	INAD	INAD/"East Brunswick"
發明人國家	*Inventor Country	ICN	ICN/CN ICN/(CN or US)

3. 个人化设置

- 用户在输入完检索标的，可点击”个人化设置”来设定进入检索结果页面的呈现字段，以及汇出Excel的专利信息字段。

条列展示

专利号 专利名称 公告/公开日 申请日期 国家

专利类型 申请号 申请人 UPC IPC

条列式显示专利图片

专利号 专利名称 专利状态 申请日期 公告/公开日 国家 专利类型 申请号 发明人 申请人 代理人 UPC IPC 摘要

表格式显示专利图片

专利号 专利名称 专利状态 申请日期 公告/公开日 国家 专利类型 申请号 发明人 申请人 代理人 UPC IPC 摘要

Excel汇出

左侧列表：
专利图片
申请日期
国家
专利类型
申请号
发明人
UPC

右侧列表：
专利号
专利名称
专利状态
公告/公开日
申请人

UP DOWN << >>

默认 全选 确定 返回

条列显示字段设定

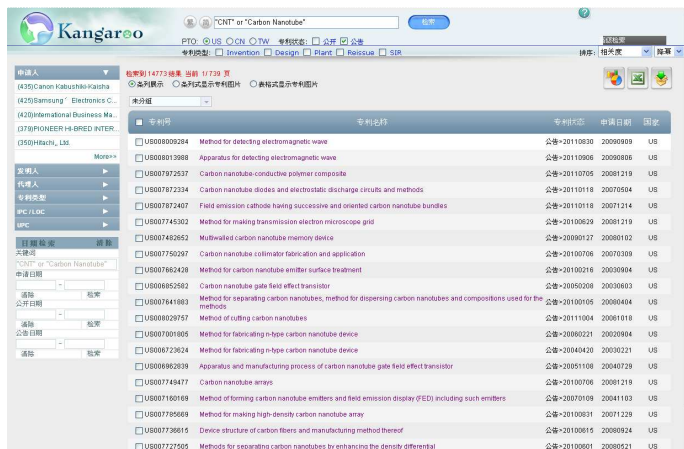
条列式显示专利图片

表格式显示专利图片

Excel汇出字段设定

输入检索标的

进入检索结果页面...



1 检索
标的

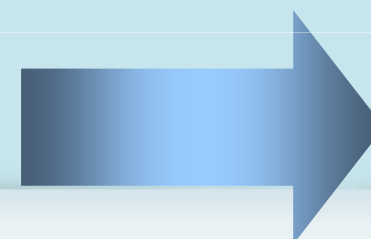
2 检索
结果

3 专利
阅读



Kangaroo 操作说明

1. 检索结果





专利检索结果多样化呈现



条列显示

搜索 "CNT" or "Carbon Nanotube"

检索

专利类型: Invention Design Plant Reissue SIR
专利状态: 公开 公告

高级检索

排序: 相关度 降序

申请人

(436)Canon Kabushiki-Kaisha

(407)PIONEER HI-BRED INTER...

(390)International Business Ma...

(359)Samsung 三星electronics C...

(346)Hitachi, Ltd.

More>>

发明人

(356)SILVERBROOK; KIA

(143)Fan; Shou Shan

(101)RUECKES; THOMAS

(88)SEGAL; BRENT M.

(84)LIU; Liang

More>>

代理人

专利类型

IPC

CPC

日期检索 清除

关键词

"CNT" or "Carbon Nanotube"

申请日期

清除 搜索

公开日期

清除 搜索

公告日期

清除 搜索

搜索到 4026 结果 当前 1/702 页

条列展示 条列式显示专利图片 表格式显示专利图片

未分组

专利号	专利名称	专利状态	申请日期	国家
<input type="checkbox"/> US007745302	Method for making transmission electron microscope grid	公告>	20100629	20081219 US
<input type="checkbox"/> US007482652	Multiwalled carbon nanotube memory device	公告>	20090127	20080102 US
<input type="checkbox"/> US007750297	Carbon nanotube collimator fabrication and application	公告>	20100706	20070309 US
<input type="checkbox"/> US007662428	Method for carbon nanotube emitter surface treatment	公告>	20100216	20030904 US
<input type="checkbox"/> US007641883	Method for separating carbon nanotubes, method for dispersing carbon nanotubes and compositions used for the methods	公告>	20100105	20080404 US
<input type="checkbox"/> US006852582	Carbon nanotube gate field effect transistor	公告>	20050208	20030603 US
<input type="checkbox"/> US007872334	Carbon nanotube diodes and electrostatic discharge circuits and methods	公告>	20110118	20070504 US
<input type="checkbox"/> US007001805	Method for fabricating n-type carbon nanotube device	公告>	20060221	20020904 US
<input type="checkbox"/> US007727505	Methods for separating carbon nanotubes by enhancing the density differential	公告>	20100601	20080521 US
<input type="checkbox"/> US007749477	Carbon nanotube arrays	公告>	20100706	20081219 US
<input type="checkbox"/> US007872407	Field emission cathode having successive and oriented carbon nanotube bundles	公告>	20110118	20071214 US
<input type="checkbox"/> US006723624	Method for fabricating n-type carbon nanotube device	公告>	20040420	20030221 US
<input type="checkbox"/> US006962839	Apparatus and manufacturing process of carbon nanotube gate field effect transistor	公告>	20051108	20040729 US
<input type="checkbox"/> US007160169	Method of forming carbon nanotube emitters and field emission display (FED) including such emitters	公告>	20070109	20041103 US
<input type="checkbox"/> US007736615	Device structure of carbon fibers and manufacturing method thereof	公告>	20100615	20080924 US
<input type="checkbox"/> US007785669	Method for making high-density carbon nanotube array	公告>	20100831	20071229 US
<input type="checkbox"/> US007646588	Carbon nanotube film, production process thereof and capacitor using the same	公告>	20100112	20070319 US
<input type="checkbox"/> US006975063	Metallization of carbon nanotubes for field emission applications	公告>	20051213	20030404 US
<input type="checkbox"/> US007781950	Field emission element having carbon nanotube and manufacturing method thereof	公告>	20100824	20070622 US
<input type="checkbox"/> US007741765	Field emission element and manufacturing method thereof	公告>	20100622	20061221 US



专利检索结果多样化呈现



繁 简 "CNT" or "Carbon Nanotube"

检索

条列式显示专利图片

Reissue SIR

高级检索

排序: 相关度

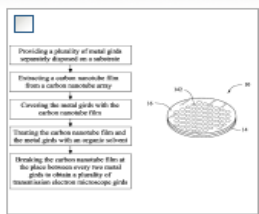
降序



- 申请人
 - (436)Canon Kabushiki-Kaisha
 - (407)PIONEER HI-BRED INTER...
 - (390)International Business Ma...
 - (359)Samsung 三星electronics C...
 - (346)Hitachi, Ltd.
 - More>>
- 发明人
 - (356)SILVERBROOK; KIA
 - (143)Fan; Shou Shan
 - (101)RUECKES; THOMAS
 - (88)SEGAL; BRENT M.
 - (84)LIU; Liang
 - More>>
- 代理人
- 专利类型
- IPC
- CPC

搜索到 14026 结果 当前 1 / 702 页

条列展示 条列式显示专利图片 表格式显示专利图片



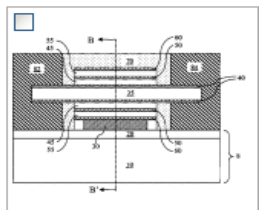
Method for making transmission electron microscope grid

US007745302 US Invention

申请号: 12/339,337

A method for making transmission electron microscope grid is provided. An array of carbon nanotubes is provided and drawing a carbon nanotube film from the array of carbon nanotubes. A substrate has a plurality of spaced metal grids attached on the substrate. The metal grids are covered with the carbon nanotube film and treating the carbon nanotube film and the metal grids with organic solvent. A transmission electron microscope (TEM) grid is obtained by removing remaining CNT film.

公告 >20081219>20100629



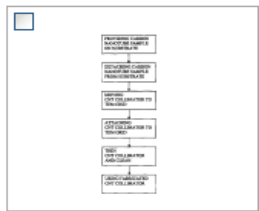
Multiwalled carbon nanotube memory device

US007482652 US Invention

申请号: 11/968,416

A carbon nanotube based memory device comprises a set of three concentric carbon nanotubes having different diameters. The diameters of the three concentric carbon nanotubes are selected such that an inner carbon nanotube is semiconducting, and intershell electron transport occurs between adjacent carbon nanotubes. Source and drain contacts are made to the inner carbon nanotube, and a gate contact is made to the outer carbon nanotube. The carbon nanotube based memory device is programmed by storing electrons or holes in the middle carbon nanotube through intershell electron transport. Changes in conductance of the inner carbon nanotube due to the charge in the middle shell are detected to determine the charge state of the middle carbon nanotube. Thus, the carbon nanotube based memory device stores information in the middle carbon nanotube in the form of electrical charge.

公告 >20080102>20090127



Carbon nanotube collimator fabrication and application

US007750297 US Invention

申请号: 11/716,258

Apparatus, methods, systems and devices for fabricating individual CNT collimators. Micron size fiber coated CNT samples are synthesized with chemical vapor deposition method and then the individual CNT collimators are fabricated with focused ion beam technique. Unfocused electron beams are successfully propagated through the CNT collimators. The CNT nano-collimators are used for applications including single ion implantation and in high-energy physics, and allow rapid, reliable testing of the transmission of CNT arrays for transport of molecules.

公告 >20070309>20100706

Method for carbon nanotube emitter surface treatment

IIS007662428 IIS Invention



专利检索结果多样化呈现



搜索 "CNT" or "Carbon Nanotube"

检索

专利类型: Inve
专利状态: 公开

表格式显示专利图片

高级检索

排序: 相关度 降序

申请人

(436)Canon Kabushiki-Kaisha

(407)PIONEER HI-BRED INTER...

(390)International Business Ma...

(359)Samsung 三星electronics C...

(346)Hitachi, Ltd.

More>>

发明人

(356)SILVERBROOK; KIA

(143)Fan; Shou Shan

(101)RUECKES; THOMAS

(88)SEGAL; BRENT M.

(84)LIU; Liang

More>>

代理人

专利类型

IPC

CPC

日期检索 清除

关键词

"CNT" or "Carbon Nanotube"

申请日期

清除 搜索

公开日期

清除 搜索

清除 搜索

清除 搜索

清除 搜索

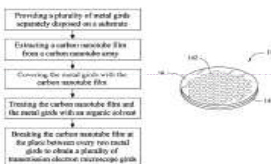
清除 搜索

搜索到 14026 结果 当前 1/702 页

条列展示 条列式显示专利图片 表格式显示专利图片

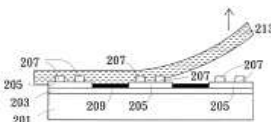
Method for making trans...

公告 > 20081219>20100629
专利号: US007746302
专利类型: Invention
申请号: 12/339,337



Method for carbon nanot...

公告 > 20030904>20100216
专利号: US007662428
专利类型: Invention
申请号: 10/653,990



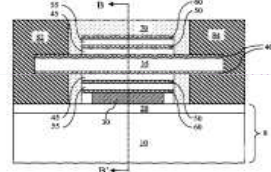
Carbon nanotube diodes ...

公告 > 20070504>20110118
专利号: US007872334
专利类型: Invention
申请号: 11/744,234



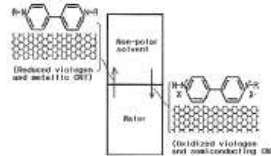
Multiwalled carbon nanot...

公告 > 20080102>20090127
专利号: US007482652
专利类型: Invention
申请号: 11/968,416



Method for separating ca...

公告 > 20080404>20100105
专利号: US007641883
专利类型: Invention
申请号: 12/062,613



Method for fabricating n-t...

公告 > 20020904>20060221
专利号: US007001805
专利类型: Invention
申请号: 10/233,601



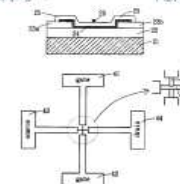
Carbon nanotube collima...

公告 > 20070309>20100706
专利号: US007750297
专利类型: Invention
申请号: 11/716,258



Carbon nanotube gate fi...

公告 > 20030603>20050208
专利号: US006852582
专利类型: Invention
申请号: 10/452,235



Methods for separating c...

公告 > 20080521>20100601
专利号: US007727505
专利类型: Invention
申请号: 12/124,278





专利检索结果分析



搜索 "CNT" or "Carbon Nanotube" 检索

专利类型: Invention Design Plant Reissue SIR
专利状态: 公开 公告

高级检索
排序: 相关性 降序

- 申请人
- (436)Canon Kabushiki-Kaisha
 - (407)PIONEER HI-BRED INTER...
 - (390)International Business Ma...
 - (359)Samsung Electronics C...

搜索到 14026 结果 当前 1/702 页
条列展示 条列式显示专利图片 表格式显示专利图片

未分组

检索即分析

- 发明人
- (356)SILVERBROOK, KIA
 - (143)Fan, Shou Shan
 - (101)RUECKES, THOMAS
 - (88)SEGAL, BRENT M.
 - (84)LIU, Liang

- 代理人
- (372)Fitzpatrick Cella Harper Sci...
 - (294)Oblon, Spivak, McClelland,...
 - (257)PIONEER HI-BRED INTER...
 - (182)Oliff & Berridge, PIC
 - (155)Sughrue Mion, Pllc.

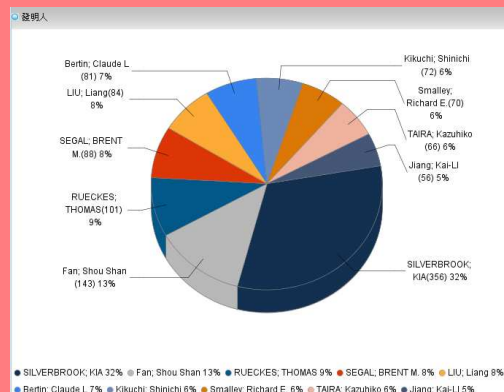
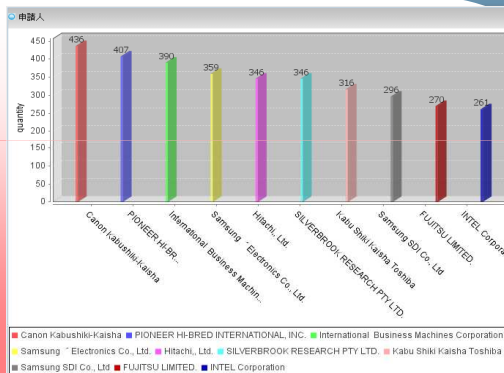
- 专利类型
- IPC
- CPC

专利号 专利名称 专利状态 申请日期 国家

<input type="checkbox"/>	US007745302	Method for m	公告	200629	20081219	US
<input type="checkbox"/>	US007482652	Multiw	公告		20080102	US
<input type="checkbox"/>	US007750297	Cart	公告		20070309	US
<input type="checkbox"/>	US007662428	Me	公告		0030904	US
<input type="checkbox"/>	US007641883	Me	公告		0080404	US
<input type="checkbox"/>	US006852582	Ca	公告		0030603	US
<input type="checkbox"/>	US007872334	Ca	公告		0070504	US
<input type="checkbox"/>	US007001805	Me	公告		0020904	US
<input type="checkbox"/>	US007727505	Me	公告		0080521	US
<input type="checkbox"/>	US007749477	Ca	公告		0081219	US
<input type="checkbox"/>	US007872407	Field	公告		0071214	US
<input type="checkbox"/>	US006723624	Me	公告		0030221	US
<input type="checkbox"/>	US006962839	App	公告		0040729	US
<input type="checkbox"/>	US007160169	Method	公告		20041103	US
<input type="checkbox"/>	US007736615	Device s	公告		5 20080924	US
<input type="checkbox"/>	US007785669	Method f	公告		000831 20071229	US
<input type="checkbox"/>	US007646588	Carbon nanotube film, production process thereof and capacitor using the same	公告	>20100112	20070319	US

- 专利件数分析
- 公司别分析
- 发明人分析
- 代理人分析
- IPC分析
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- (346)Hitachi,, Ltd.

More>>

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- (155)Sughrue Mion, Pllc.

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关键词

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申请人 表格式 相关度

#	专利号	专利名称	专利状态	申请日期	国家	专利类型
1	<input type="checkbox"/> US007306503	Method and apparatus of fixing carbon fibers on a substrate using an aerosol deposition process	公告>	20071211	20031002	US Invention
2	<input type="checkbox"/> US007423823	Lens barrel	公告>	20080909	20040707	US Invention
3	<input type="checkbox"/> US007138759	Electron-emitting device, electron source, and image display apparatus	公告>	20061121	20040302	US Invention
4	<input type="checkbox"/> US007703897	Liquid discharge apparatus and method for aligning needle-like substances	公告>	20100427	20041117	US Invention
5	<input type="checkbox"/> US007148619	Electronic device containing a carbon nanotube	公告>	20061212	20051017	US Invention
6	<input type="checkbox"/> US007453193	Electronic device containing a carbon nanotube	公告>	20081118	20061103	US Invention
7	<input type="checkbox"/> US006628053	Carbon nanotube device, manufacturing method of carbon nanotube device, and electron emitting device	公告>	20030930	19981026	US Invention
8	<input type="checkbox"/> US006979244	Method of manufacturing an electronic device containing a carbon nanotube	公告>	20051227	20031114	US Invention
9	<input type="checkbox"/> US007001581	Method for producing nanocarbon materials	公告>	20060221	20021004	US Invention
10	<input type="checkbox"/> US007270795	Method for producing nano-carbon materials	公告>	20070918	20040123	US Invention
11	<input type="checkbox"/> US007442358	Flaky carbonaceous particle and production method thereof	公告>	20081028	20040402	US Invention
12	<input type="checkbox"/> US007104859	Methods for manufacturing carbon fibers, electron-emitting device, electron source, image display apparatus, light bulb, and secondary battery using a thermal CVD method	公告>	20060912	20040318	US Invention
						436
<input type="checkbox"/> ▶ PIONEER HI-BRED INTERNATIONAL, INC.						407
<input type="checkbox"/> ▶ International Business Machines Corporation						390
<input type="checkbox"/> ▶ Samsung 三星electronics Co., Ltd.						359
<input type="checkbox"/> ▶ Hitachi,, Ltd.						346
<input type="checkbox"/> ▶ SILVERBROOK RESEARCH PTY LTD.						346
<input type="checkbox"/> ▶ Kabu Shiki Kaisha Toshiba						316
<input type="checkbox"/> ▶ Samsung SDI Co., Ltd						296



专利检索结果分组



“CNT” or “Carbon Nanotube”

检索

专利类型: Invention Design Plant Reissue SIR

高级检索

排序: 相关度 降序

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申请人

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- (346)Hitachi, Ltd.

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发明人

- (356)SILVERBROOK; KIA
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- (88)SEGAL; BRENT M.
- (84)LIU; Liang

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关键词

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表格式

表格式

饼图

柱形图

相关度

相关度

申请日

公告/公开日期

专利号

专利号	专利名称	公告/公开日期	申请日期	国家	专利类型	数量
6	<input type="checkbox"/> US007453193 Electronic device containing a carbon nanotube	公告>20081118	20061103	US	Invention	407
7	<input type="checkbox"/> US006628053 Carbon nanotube device, manufacturing method of carbon nanotube device, and electron emitting device	公告>20030930	19981026	US	Invention	390
8	<input type="checkbox"/> US006979244 Method of manufacturing an electronic device containing a carbon nanotube	公告>20051227	20031114	US	Invention	359
9	<input type="checkbox"/> US007001581 Method for producing nanocarbon materials	公告>20060221	20021004	US	Invention	346
10	<input type="checkbox"/> US007270795 Method for producing nano-carbon materials	公告>20070918	20040123	US	Invention	346
11	<input type="checkbox"/> US007442358 Flaky carbonaceous particle and production method thereof	公告>20081028	20040402	US	Invention	316
12	<input type="checkbox"/> US007104859 Methods for manufacturing carbon fibers, electron-emitting device, electron source, image display apparatus, light bulb, and secondary battery using a thermal CVD method	公告>20060912	20040318	US	Invention	296



专利检索结果分组



搜索 "CNT" or "Carbon Nanotube"

检索

专利类型: Invention Design Plant Reissue SIR

专利状态:

高级检索

排序: 相关度 降序

分析图呈现

申请人

- (436)Canon Kabushiki-Kaisha
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- (346)Hitachi, Ltd.

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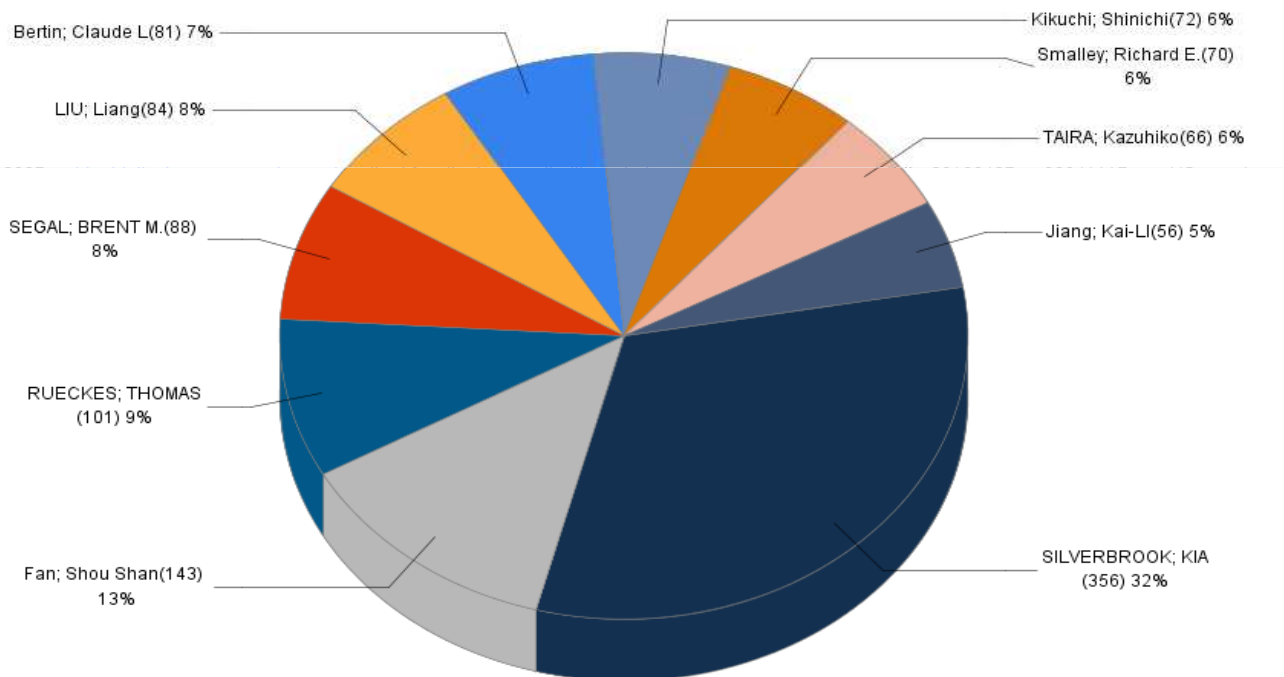
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搜索到 14026 结果 当前 1/702 页

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发明人 饼图

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● SILVERBROOK; KIA 32% ● Fan, Shou Shan 13% ● RUECKES; THOMAS 9% ● SEGAL; BRENT M. 8% ● LIU; Liang 8% ● Bertin; Claude L 7% ● Kikuchi; Shinichi 6% ● Smalley; Richard E. 6% ● TAIRA; Kazuhiko 6% ● Jiang; Kai-LI 5%



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 - (155)Sughrue Mion, Pllc.
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未分组

勾选专利

<input type="checkbox"/>	专利名称	专利状态	申请日期	国家
<input checked="" type="checkbox"/>	US00777... Method for making transmission electron microscope grid			US
<input checked="" type="checkbox"/>	US007482652 Multiwalled carbon nanotube memory device			US
<input checked="" type="checkbox"/>	US007750297 Carbon nanotube collimator fabrication and application			US
<input type="checkbox"/>	US007662428 Method for carbon nanotube emitter surface treatment			US
<input type="checkbox"/>	US007641883 Method for separating carbon nanotubes, method for dispersi... methods			US
<input checked="" type="checkbox"/>	US006852582 Carbon nanotube gate field effect transistor			US
<input checked="" type="checkbox"/>	US007872334 Carbon nanotube diodes and electrostatic discharge circuits a...			US
<input checked="" type="checkbox"/>	US007001805 Method for fabricating n-type carbon nanotube device	公告>	20060221 20020904	US
<input type="checkbox"/>	US007727505 Methods for separating carbon nanotubes by enhancing the density differential	公告>	20100601 20080521	US
<input type="checkbox"/>	US007749477 Carbon nanotube arrays	公告>	20100706 20081219	US
<input type="checkbox"/>	US007872407 Field emission cathode having successive and oriented carbon nanotube bundles	公告>	20110118 20071214	US
<input type="checkbox"/>	US006723624 Method for fabricating n-type carbon nanotube device	公告>	20040420 20030221	US
<input type="checkbox"/>	US006962839 Apparatus and manufacturing process of carbon nanotube gate field effect transistor	公告>	20051108 20040729	US
<input type="checkbox"/>	US007160169 Method of forming carbon nanotube emitters and field emission display (FED) including such emitters	公告>	20070109 20041103	US
<input type="checkbox"/>	US007736615 Device structure of carbon fibers and manufacturing method thereof	公告>	20100615 20080924	US
<input type="checkbox"/>	US007785669 Method for making high-density carbon nanotube array	公告>	20100831 20071229	US
<input type="checkbox"/>	US007646588 Carbon nanotube film, production process thereof and capacitor using the same			

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搜索 "CNT" or "Carbon Nanotube"

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PTO: US CN TW 专利状态: 公开 公告
专利类型: Invention Design Plant Reissue SIR

高级检索

排序: 相关度 降序



- 申请人
 - (435)Canon Kabushiki-Kaisha
 - (425)Samsung Electronics Co., Ltd.
 - (420)International Business Machines Corporation
 - (379)PIONEER HI-BRED INTERNATIONAL, INC.
 - (350)Hitachi, Ltd.
- 发明人
- 代理人
- 专利类型
- IPC / LOC
- UPC

检索到 14773 结果 当前 1/739 页
 条列展示 条列式显示专利图片 表格式显示专利图片

未分组

专利号

US008009284 Method for detecting electromagnetic wave

US008013988 Apparatus for detecting electromagnetic wave

点击专利号

专利基本信息

US008009284

专利号: US008009284
 专利名称: Method for detecting electromagnetic wave
 申请人: Tsinghua University(Beijing,); Hon Hai Precision Industry Co., Ltd.(Tu-Cheng, New Taipei,)
 申请号: 12/584,668
 申请日: 20090909
 专利状态: 公告>20110830
 发明人: Xiao; Lin(Beijing,CN); Liu; Liang(Beijing,CN); Fan; Shou-Shan(Beijing,CN); Jiang; Kai-Li(Beijing,CN); Zhang; Yu-Ying(Beijing,CN);
 国家: US
 专利类型: Invention
 UPC: 250/370.01;250/472.1;356/218;356/301;356/303;977/742;977/833;
 IPC / LOC: G01J 1/42;
 摘要: A method for detecting an electromagnetic wave includes: providing a carbon nanotube structure including a plurality of carbon nanotubes arranged along a same direction. The carbon nanotube structure is irradiated by an electromagnetic wave to be measured. The resistance of the carbon nanotube structure irradiated by the electromagnetic wave is measured.

专利状态	申请日期	国家
公告>20110830	20090909	US
公告>20110906	20090806	US
公告>20110705	20081219	US
公告>20110118	20070504	US
公告>20110118	20071214	US
公告>20100629	20081219	US
公告>20090127	20080102	US
公告>20100706	20070309	US
公告>20100216	20030904	US
公告>20050208	20030603	US
公告>20100105	20080404	US
公告>20111004	20061018	US
公告>20060221	20020904	US
公告>20040420	20030221	US
公告>20051108	20040729	US
公告>20100706	20081219	US
公告>20070109	20041103	US
公告>20100831	20071229	US
公告>20100615	20080924	US
公告>20100601	20080521	US

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PTO: US CN TW 专利状态: 公开 公告
 专利类型: Invention Design Plant Reissue SIR

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 - (420)International Business Machines Corporation
 - (379)PIONEER HI-BRED INTERNATIONAL, INC.
 - (350)Hitachi, Ltd.
- More>>
- 发明人
- 代理人
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专利号	专利名称	专利状态	申请日期
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<input type="checkbox"/> US008013988	Apparatus for detecting electromagnetic wave	公告>	20110906
<input type="checkbox"/> US007972537	Carbon nanotube-conductive polymer composite	公告>	20110705
<input type="checkbox"/> US007872334	Carbon nanotube diodes and electrostatic discharge circuits and methods	公告>	20110118
<input type="checkbox"/> US007872407	Field emission cathode having successive and oriented carbon nanotube bundles	公告>	20070504
<input type="checkbox"/> US007745302	Method for making transmission electron microscope grid	公告>	20071214
<input type="checkbox"/> US007482652	Multiwalled carbon nanotube memory device	公告>	
<input type="checkbox"/> US007750297	Carbon nanotube collimator fabrication and application	公告>	
<input type="checkbox"/> US007662428	Method for carbon nanotube emitter surface treatment	公告>	
<input type="checkbox"/> US006852582	Carbon nanotube gate field effect transistor	公告>	
<input type="checkbox"/> US007641883	Method for separating carbon nanotubes, method for dispersing carbon nanotubes and compositions used for the methods	公告>	
<input type="checkbox"/> US008029757	Method for separating carbon nanotubes by enhancing the density differential	公告>	
<input type="checkbox"/> US007001805	Method for separating carbon nanotubes by enhancing the density differential	公告>	
<input type="checkbox"/> US006723624	Method for fabricating n-type carbon nanotube device	公告>	
<input type="checkbox"/> US006962839	Apparatus and manufacturing process of carbon nanotube gate field effect transistor	公告>	
<input type="checkbox"/> US007749477	Carbon nanotube arrays	公告>	
<input type="checkbox"/> US007160169	Method of forming carbon nanotube emitters and field emission display (FED) including such emitters	公告>	
<input type="checkbox"/> US007785669	Method for making high-density carbon nanotube array	公告>	
<input type="checkbox"/> US007736615	Device structure of carbon fibers and manufacturing method thereof	公告>	
<input type="checkbox"/> US007727505	Methods for separating carbon nanotubes by enhancing the density differential	公告>	

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Kangaroo

Method for carbon nanotube emitter surface treatment

基本资讯

专利号: US007662428
 发明人: Lee, Cheng-Chung(Hsinchu,TW), Shew, Jyh-Rong(Hsinchu,TW), Chang, Yu-Yang(Hsinchu,TW), Liu, Jia-Chang(Hsinchu,TW), Lee, Chun-Tai(Hsinchu,TW)
 公告日期: 2010-02-16
 申请人: Industrial Technology Research Institute(Hsinchu,TW)
 申请日: 2005-09-04
 申请号: 10463390

分类

Current U.S. Class: 422/372.2, 422/325, 422/277
 IPC: B05D 5/12

摘要

A method for increasing the number of carbon nanotubes exposed on the triode structure device of a field emission display uses the technology of casting surface treatment. For advancing the current density and magnitude of CNT emitters, the method of casting surface treatment on the CNT emitters includes the steps of coating an adhesive material on the surface of said CNT-FED, heating and sintering the coated adhesive material for attaching said adhesive material on a triode structure surface of said CNT-FED, and removing impurities on the surface of said CNT-FED by lifting said adhesive material off.

其他参考

English abstract of WO 02/41348; May 23, 2002; cited by examiner.
 主要审查员: Meeks, Timothy H
 审查员: Liu, Jimmy

权利要求

1. A method for carbon nanotube emitter surface treatment, which is used on a carbon nanotube electronic source for increasing the number of carbon nanotubes exposed on a triode structure or other surface structure of a carbon nanotube field emission display (CNT-FED), the method for carbon nanotube emitter surface treatment comprising the steps of coating an adhesive material on the surface of said CNT-FED, heating and sintering the coated adhesive material for attaching said adhesive material on a triode structure surface of said CNT-FED, and removing impurities on the surface of said CNT-FED by lifting said adhesive material off.

2. The method for carbon nanotube emitter surface treatment as claimed in claim 1, wherein said adhesive material is selected from the group consisting of a hot melt glue, a soluble material, an organic material, an inorganic material and a sinterable material.

3. The method for carbon nanotube emitter surface treatment as claimed in claim 1, wherein said adhesive material sticks on said carbon nanotube electronic source.

4. The method for carbon nanotube emitter surface treatment as claimed in claim 3, wherein said carbon nanotube electronic source is set between a cathode plate and a gate in said triode structure.

说明

专利家族

专利引证

专利号	专利名称	申请日
20020006650	Structure for pattern formation, method for pattern formation, and application thereof	2001-05-15
20020018523	Process for improving the emission of electron field emitters	2001-05-15
20020112381	Multi-layer microfluidic device fabrication	2002-04-17
20020114582	Robotic tape applicator and method	2002-03-05
20020140348	Display apparatus	2002-03-22
US007161209	CNT film and field-emission cold cathode comprising the same	2001-11-19
US007228244	Process for improving the emission of electron field emitters	2002-04-15

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Method for carbon nanotube emitter surface treatment

基本資訊
發明人: Lee, Chang-Chang(Hsinchu,TW), Shau, Jui-Rong(Hsinchu,TW), Chang, Yu-Yang(Hsinchu,TW), Lin, Jui-Chang(Hsinchu,TW), Lee, Chao-Tai(Hsinchu,TW)
公告號: 201020116
申請人: Industrial Technology Research Institute(Hsinchu,TW)
申請日: 20030918
申請號: 10463390

分類
Current U.S. Class: 427/222.2; 427/225; 427/27
IPC: B60L5/02

摘要
A method for increasing the number of carbon nanotubes exposed on the triode structure device of a field emission display uses the technology of casting surface treatment. For advancing the current density and magnitude of CNT emitters, the method of casting surface treatment on the CNT emitters includes the steps of coating an adhesive material on the surface of the device, heating the adhesive material for softening the surface, and lifting the adhesive material of the surface.

其他參考
English abstract of WO 02/41348; May 23, 2002, cited by examiner.
主要委員: Meeks, Timothy H.
副審委員: Lin, Jimmy

權利要求
一、一種碳奈米管發射器表面處理方法，其係用於碳奈米管電子源以增加碳奈米管發射器之陰極結構或表面結構之碳奈米管發射器(CNT-FED)之方法，其係用於碳奈米管發射器表面處理，其包括下列步驟：將黏著劑塗佈於所述CNT-FED之表面，加熱使所述黏著劑軟化，以及將所述黏著劑材料從所述表面剝離。

二、如申請專利範圍第1項所述之方法，其中黏著劑材料係選自下列群組：熱熔膠、可溶性樹脂、有機材料、無機材料及可熔材料。

三、如申請專利範圍第1項所述之方法，其中黏著劑材料係塗佈於碳奈米管電子源。

四、如申請專利範圍第1項所述之方法，其中碳奈米管電子源係設置於陰極板與開口之間。

專利號碼	專利名稱	申請日
20020102662	Structure for pattern formation, method for pattern formation, and application thereof	2001-06-16
20020102621	Process for improving the emission of electron field emitters	2001-06-16
20020102620	Multi-layer microfabricated device fabrication	2002-08-17
20020102615	Obstacle film applicator and method	2002-09-05
20020102614	Display apparatus	2002-09-02
US02/012825	CNT film and field-emission cold cathode comprising the same	2001-11-19
US02/012868	Process for improving the emission of electron field emitters	2002-06-16

1 检索标的

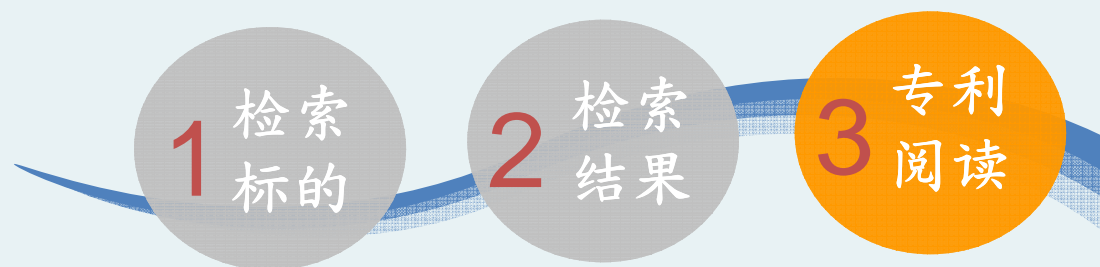
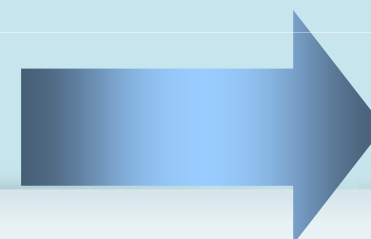
2 检索结果

3 专利阅读



Kangaroo 操作说明

1. 专利阅读



专利阅读浏览器

- 提供专利全文阅读模式、专利影像浏览模式、专利缩图模式

Method for carbon nanotube emitter surface treatment

基本资讯

专利号: US007662426
发明人: Lee, Cheng-Chung(Hsinchu,TW), Sheu, Jyh-Rong(Hsinchu,TW), Chang, Yu-Yang(Hsinchu,TW), Ho, Jia-Chong(Hsinchu,TW), Lee, Chun-Tao(Hsinchu,TW)
公告日期: 2010-02-16
申请人: Industrial Technology Research Institute(Hsinchu,TW)
申请日: 2003-09-04
申请号: 10663,990

专利强度

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分类

CPC: 427/372.2, 427/375, 427/77
IPC: F05D 5/12

在线全文阅读

摘要

A method for increasing the number of carbon nanotubes exposed on the triode structure device of a field emission display uses the technology of casting surface treatment. For advancing the current density and magnitude of CNT emitters, the method of casting surface treatment on the CNT emitters includes the steps of coating an adhesive material on the surface of the device, heating the adhesive material for adhibiting the surface, and lifting the adhesive material off the surface.

关键字

[adhesive material](#) [CNT emitters](#) [casting surface treatment](#) [lifting adhesive material](#) [carbon nanotubes](#) [carbon nanotube emitter surface treatment](#) [triode structure device](#) [surface treatment](#) [field emission display](#) [current density and magnitude](#)

其他参考

English abstract of WO 02/41348; May 23, 2002. cited by examiner.
主审查员: Meeks, Timothy H
副审查员: Lin, Jimmy

Method for carbon nanotube emitter surface treatme...

Front Page Drawings Specifications Claims

US007662426

(12) **United States Patent** (10) Patent No.: **US 7,662,428 B2**
Sheu et al. (45) Date of Patent: **Feb. 16, 2010**

(54) METHOD FOR CARBON NANOTUBE EMITTER SURFACE TREATMENT (58) Field of Classification Search 427/77, 427/372.2, 375
See application file for complete search history.

(75) Inventors: Jyh-Rong Sheu, Hsinchu (TW); Chun-Tao Lee, Hsinchu (TW) (56) References Cited

专利影像浏览

patent is extended or adjusted under 35 U.S.C. 154(b) by 1129 days.

(21) Appl. No.: 10663,990
(22) Filed: Sep. 4, 2003

(65) **Prior Publication Data**
US 2004/024081 A1 Nov. 11, 2004

(30) **Foreign Application Priority Data**
May 8, 2003 (TW) 92112541 A

(51) Int. Cl. **B95D 5/12** (2006-01)

(52) U.S. Cl. 427/77; 427/372.2; 427/375 **4 Claims, 5 Drawing Sheets**

ABSTRACT

A method for increasing the number of carbon nanotubes exposed on the triode structure device of a field emission display uses the technology of casting surface treatment. For advancing the current density and magnitude of CNT emitters, the method of casting surface treatment on the CNT emitters includes the steps of coating an adhesive material on the surface of the device, heating the adhesive material for adhibiting the surface, and lifting the adhesive material off the surface.

Method for carbon nanotube emitter surface treatme...

Front Page Drawings Specifications Claims

专利影像缩图

1 2 3 4

5 6 7 8



专利阅读浏览器

- 包含专利基本信息、专利范围、专利描述、专利家族、引证关系



Method for carbon nanotube emitter surface treatment

专利全文浏览

基本信息

基本资讯

专利号: US007662428
 发明人: [Lee, Cheng-Chung](#)(Hsinchu,TW), [Sheu, Jyh-Rong](#)(Hsinchu,TW), [Chang, Yu-Yang](#)(Hsinchu,TW), [Ho, Jia-Chong](#)(Hsinchu,TW), [Lee, Chun-Tao](#)(Hsinchu,TW)
 公告日期: 2010-02-16
 申请人: [Industrial Technology Research Institute](#)(Hsinchu,TW)
 申请日: 2003-09-04
 申请号: 10,653,990

专利分类

专利强度

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分类

CPC: [427/372.2](#), [427/375](#), [427/77](#)
 IPC: [B05D 5/12](#)

专利摘要

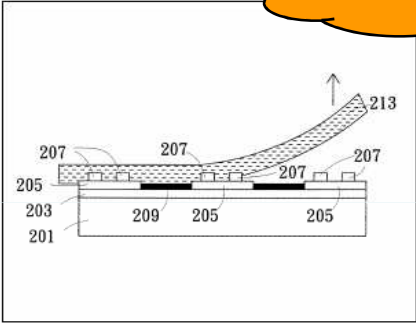
摘要

A method for increasing the number of carbon nanotubes exposed on the triode structure device of a field emission display uses the technology of casting surface treatment. For advancing the current density and magnitude of CNT emitters, the method of casting surface treatment on the CNT emitters includes the steps of coating an adhesive material on the surface of the device; heating the adhesive material for adhibiting the surface; and lifting the adhesive material off the surface.

关键字

[adhesive material](#) [CNT emitters](#) [casting surface treatment](#) [lifting adhesive material](#) [carbon nanotubes](#) [carbon nanotube emitter surface treatment](#) [triode structure device](#) [surface treatment](#) [field emission display](#) [current density and magnitude](#)


- 其他参考**
- 权利要求**
- 说明**








专利阅读浏览器

- 包含专利基本信息、专利范围、专利描述、专利家族、引证关系



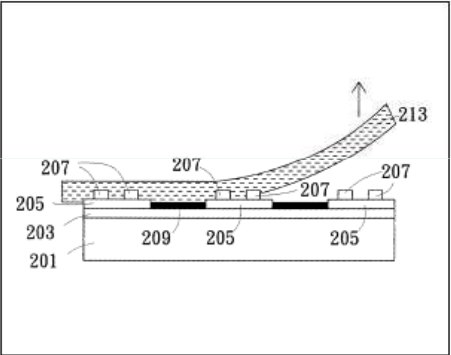
Method for carbon nanotube emitter surface treatment

基本资讯

专利号: US007662428
 发明人: [Lee, Cheng-Chung](#)(Hsinchu,TW), [Sheu, Jyh-Rong](#)(Hsinchu,TW), [Chang, Yu-Yang](#)(Hsinchu,TW), [Ho, Jia-Chong](#)(Hsinchu,TW), [Lee, Chun-Tao](#)(Hsinchu,TW)
 公告日期: 2010-02-16
 申请人: [Industrial Technology Research Institute](#)(Hsinchu,TW)
 申请日: 2003-09-04
 申请号: 10/653,990

专利强度

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关键字

adhesive material
 CNT emitters
 casting surface treatment
 lifting adhesive material
 carbon nanotubes
 carbon nanotube emitter surface treatment
 triode structure device
 surface treatment
 field emission display
 current density and magnitude

ed on the triode structure device of a field emission display uses the technology of casting of CNT emitters, the method of casting surface treatment on the CNT emitters includes the heating the adhesive material for adhibitting the surface; and lifting the adhesive material off the



專利閱讀瀏覽器

- 包含專利基本信息、專利範圍、專利描述、專利家族、引證關係

Kangaroo

Method for carbon nanotube emitter surface treatment

專利要求

一般模式

▼ 專利要求 #1

1. A method for carbon nanotube emitter surface treatment, which is used on a carbon nanotube electronics source for increasing the number of carbon nanotube exposed on a triode or any structure of CNT-FED, then the method can advance the current density and intensity of CNT emitter, the method for carbon nanotube emitter surface treatment comprising the steps of: coating an adhesive material on the surface of said CNT-FED; heating said adhesive material for adhibitting the surface; and lifting said adhesive material off.
▼ 專利要求 #1 附屬項
2. The method for carbon nanotube emitter surface treatment as recited claim 1, wherein said adhesive material is a hot melt glue or a soluble material, organic material, inorganic material and strippable material.
3. The method for carbon nanotube emitter surface treatment as recited claim 1, wherein said adhesive material sticks on said carbon nanotube electronics source.
▼ 專利要求 #3 附屬項
4. The method for carbon nanotube emitter surface treatment as recited claim 3, wherein said carbon nanotube electronic source is set between a cathode plate and a gate existed in said triode structure.

▼ 專利要求 #5

5. A method for carbon nanotube emitter surface treatment, which is used on a carbon nanotube electronics source for increasing the number of carbon nanotube exposed on a triode or any structure of CNT-FED, then the method can advance the current density and intensity of CNT emitter, the method for carbon nanotube emitter surface treatment comprising the steps of: coating an activator on the surface of said CNT-FED; coating an adhesive material on said activator; pressing said adhesive material for adhibitting the surface; and lifting said adhesive material off.
▼ 專利要求 #5 附屬項
6. The method for carbon nanotube emitter surface treatment as recited claim 5, wherein said activator is an interface activator surfactant or a release agent.
7. The method for carbon nanotube emitter surface treatment as recited claim 5, wherein said adhesive material is a hot melt glue or a soluble material, organic material, inorganic material and strippable material.
8. The method for carbon nanotube emitter surface treatment as recited claim 5, wherein said step of pressing said adhesive material for adhibitting the surface is achieved by a pressing machine.
9. The method for carbon nanotube emitter surface treatment as recited claim 5, wherein said adhesive material sticks on said carbon nanotube electronics source.
▼ 專利要求 #9 附屬項
10. The method for carbon nanotube emitter surface treatment as recited claim 9, wherein said carbon nanotube electronic source is set between a cathode plate and a gate existed in said triode structure.

說明

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention



[0002] The invention relates to a method for carbon nanotube emitter surface treatment, which is used to increase the number of CNT (carbon nanotube) exposed on device for advancing the current density and magnitude of CNT emitter.

專利
說明



专利阅读浏览器

- 包含专利基本信息、专利范围、专利描述、专利家族、引证关系

+ 参考引用

- 专利家族

参考引用

专利号	专利名称	申请日
2002/0006558	Structure for pattern formation, method for pattern formation, and application thereof	2001-06-15
2002/0074932	Process for improving the emission of electron field emitters	2001-06-15
2002/0112961	Multi-layer microfluidic device fabrication	2002-04-17
2002/0124967	Robotic tape applicator and method	2002-03-05
2002/0140348	Display apparatus	2002-03-22
US007161285	CNT film and field-emission cold cathode comprising the same	2001-11-19
US007276844	Process for improving the emission of electron field emitters	2005-04-15

专利家族

PN	2004335435				
Title(TI)	MAR				
Type	A				
IPC	H01J 1/304 A I; H01J 21/06 A I; H01J 31/12 A I;	H01J 1/304; H01J 9/02 B2;			
Abstract					
Assignee	IND TECH RES INST IND TECHNOL RES INST	Inventor KYO SHIEI LEE CHUN-TAO RI SEICHU KA KAJU CHO YUYO KYO SHIEI, LEE CHUN-TAO, RI SEICHU, KA KAJU, CHO YUYO			
223308	20041101	92112541	TW1223308B	92112541	20030508
Title(TI)	Manufacturing process of carbon nanotube field emission transistor				
Type	B	AP	TW20030112541	AP-Date	20030508
IPC	H01J 9/02 A I; B05D 3/12 A I; H01J 1/304 A I; H01J 21/06 A I; H01J 31/12 A I;	EPC	B82Y30/00; B82Y10/00; H01J1/304; H01J9/02B2;	Title(OT)	
Abstract	The present invention relates to a manufacturing process of CNT-FET, which adopts a casting surface treatment used on carbon nanotube electronic emission source in structure of triple-electrode, to increase the number of CNT covered on the surface.				
Assignee	IND TECH RES INST [TW] INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	Inventor	SHEU JYH-RONG [TW] LEE CHUN-TAO [TW] LEE CHENG-CHUNG [TW] HO JIA-CHONG [TW] CHANG YU-YANG [TW] SHEU, JYH-RONG, LEE, CHUN-TAO, LEE, CHENG-CHUNG, HO, JIA-CHONG, CHANG, YU-YANG		



专利图片浏览器

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Kangaroo

Method for carbon nanotube emitter surface treatment

說明

BACKGROUND OF THE INVENTION

1. Field of the Invention

The invention relates to a method for carbon nanotube emitter surface treatment of a carbon nanotube field emission display (FED) device for advancing the current density and magnitude of emission.

2. Description of the Prior Art

To implement a flat panel display, the CNT-FED (carbon nanotube field emission display) device is used. It not only keeps the image quality of a CRT display, but also the advanced technology of the FED device, such as the high current density of emission current, and high brightness, and large-size screen as well as low power consumption.

FIG. 1 shows the luminous theory of the triode structure of carbon nanotube field emitter display. The CNT-FED luminous theory includes the processing steps of fabricating a carbon nanotube on the cathode plate 103. The carbon nanotube 104 is used to pull electrons out of the cathode plate 103. The electric field is applied between the cathode plate 103 and the anode plate 105. Because of the electric field, the electrons are pulled out of the cathode plate 103 and hit the anode plate 105. Finally, the display generates the light.

In the prior art, when manufacturing the carbon nanotube field emitter display, the carbon nanotube is exposed on the surface of the cathode plate. However, the carbon nanotube is not exposed on the surface of the cathode plate. In order to resolve the problem, the laser scanning method is used to expose the carbon nanotube on the surface of the cathode plate. U.S. Patent No. 6,800,000, titled "Carbon Nanotube Field Emitters" is hereby incorporated by reference.

SUMMARY OF THE INVENTION

It is a primary object of the present invention to provide a method for carbon nanotube emitter surface treatment. The method includes the steps of coating an adhesive material on the carbon nanotube emitter surface and then increasing the number of the CNTs exposed on the device.

操作

按右键

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搜索

二次搜索

FIG. 2C

FIG. 1 is a schematic diagram showing the luminous theory of the triode structure of carbon nanotube field emitter display;

FIG. 2A is the 1st schematic diagram showing the treatment in accordance with the first preferred embodiment;

FIG. 2B is the 2nd schematic diagram showing the treatment in accordance with the first preferred embodiment;

专利图批注

全文实时检索

- 阅读专利全文中，可弹性选择欲筛选的**Keyword**，实时进行一次检索、二次检索，提供重要信息**点击链接即检索**功能，方便用户精确掌握目标专利！

The screenshot shows a patent document page from Kangaroo. The title is "Method for carbon nanotube emitter surface treatment". The page is divided into sections: "基本资讯" (Basic Information), "专利强度" (Patent Strength), "分类" (Classification), and "摘要" (Abstract). The "基本资讯" section contains the patent number (US007662428), inventors (Lee, Cheng-Chung, Sheu, Jyh-Rong, Chang, Yu-Yang, Ho, Jia-Chong, Lee, Chun-Tao), and the applicant (Industrial Technology Research Institute). The "分类" section lists CPC and IPC codes. The "摘要" section contains the patent's description. Annotations include a blue callout box pointing to the "Industrial Technology Research Institute" link with the text "点击即检索" (Click to search), an orange callout box pointing to the "二次搜索" (Secondary search) option in the context menu with the text "按右鍵" (Right-click), and a grey cloud-shaped callout containing the search query: "(“CNT” or “Carbon Nanotube”) AND “CNT emitters”". A context menu is open over the "Industrial Technology Research Institute" link, showing options like "专利图片浏览", "复制文字", "搜索", "二次搜索", and "操作". The "二次搜索" option is highlighted with a red box, and a red arrow points from it to the search query in the cloud. The "依关键词" (By keyword) option is also highlighted with a red box.

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(“CNT” or “Carbon Nanotube”) AND “CNT emitters”

依关键词

依 专利名称

依 摘要

依 发明人

依 申请人

依 CPC

依 IPC

操作

二次搜索

搜索

复制文字

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基本资讯

利号 : US007662428

明人 : [Lee, Cheng-Chung](#)(Hsinchu,TW), [Sheu, Jyh-Rong](#)(Hsinchu,TW), [Chang, Yu-Yang](#)(Hsinchu,TW), [Ho, Jia-Chong](#)(Hsinchu,TW), [Lee, Chun-Tao](#)(Hsinchu,TW)

先日期 : 2010-02-16

申请人 : [Industrial Technology Research Institute](#)(Hsinchu,TW)

申请日 : 2003-09-04

申请号 : 10/653,990

专利强度

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分类

CPC : [427/B72.2](#), [427/B75](#), [427/I77](#)

IPC : [B05D 5/12](#)

摘要

A method for increasing the number of carbon nanotubes exposed on the surface of a device; the structure of the device is a carbon nanotube emitter. For advancing the current density and magnitude of CNT emitters, the method includes the following steps: coating an adhesive material on the surface of the device; heating the adhesive material on the surface of the device; casting the adhesive material on the surface of the device; and lifting the adhesive material off the surface.

专利影像浏览器

Kangaroo Method for carbon nanotube emitter surface treatme...

Front Page Drawings Specifications Claims

US007662428B2

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

(10) **Patent No.:** US 7,662,428 B2
(45) **Date of Patent:** Feb. 16, 2010

(54) **METHOD FOR CARBON NANOTUBE
EMITTER SURFACE TREATMENT**

(75) **Inventors:** Jyh-Rong Sheu, Hsinchu (TW);
Chun-Tao Lee, Hsinchu (TW);
Cheng-Chung Lee, Hsinchu (TW);
Jia-Chong Ho, Hsinchu (TW); Yu-Yang
Chang, Hsinchu (TW)

(73) **Assignee:** Industrial Technology Research
Institute, Hsinchu (TW)

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 1129 days.

(21) **Appl. No.:** 10/653,990

(22) **Filed:** Sep. 4, 2003

(65) **Prior Publication Data**
US 2004/0224081 A1 Nov. 11, 2004

(30) **Foreign Application Priority Data**
May 8, 2003 (TW) 92112541 A

(51) **Int. Cl.**
B05D 5/12 (2006.01)

(52) **U.S. Cl.** 427/77; 427/372.2; 427/375

(58) **Field of Classification Search** 427/77,
427/372.2, 375
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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2002/0124967 A1 * 9/2002 Sharp 156/378
2002/0140348 A1 * 10/2002 Takeuchi et al. 313/581

OTHER PUBLICATIONS
English abstract of WO 02/41348; May 23, 2002.*
* cited by examiner

Primary Examiner—Timothy H Meeks
Assistant Examiner—Jimmy Lin

(57) **ABSTRACT**
A method for increasing the number of carbon nanotubes
exposed on the triode structure device of a field emission
display uses the technology of casting surface treatment. For
advancing the current density and magnitude of CNT emit-
ters, the method of casting surface treatment on the CNT
emitters includes the steps of coating an adhesive material on
the surface of the device; heating the adhesive material for
adhibiting the surface; and lifting the adhesive material off
the surface.

4 Claims, 5 Drawing Sheets

专利影像浏览



专利影像浏览器



Method for carbon nanotube emitter surface treatme...



Front Page Drawings Specifications Claims



U.S. Patent

Feb. 16, 2010

Sheet 1 of 5

US 7,662,428 B2

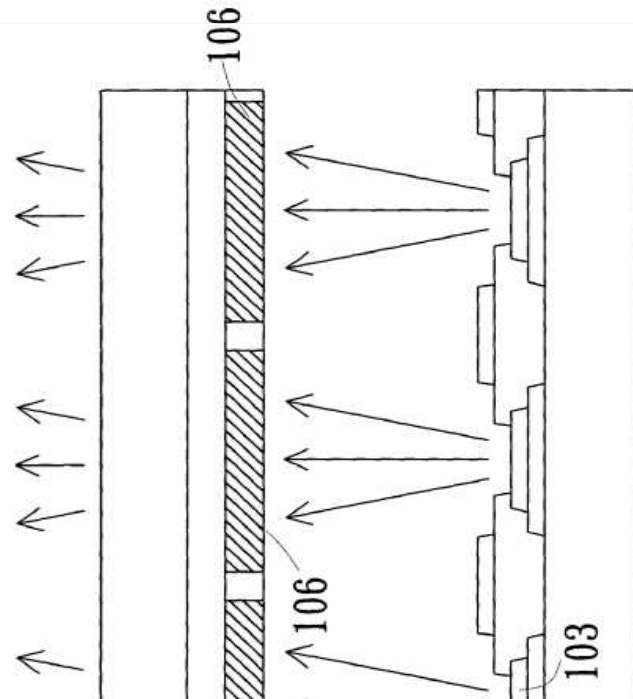


FIG. 1 (PRIOR ART)



专利影像缩图



Method for carbon nanotube emitter surface treatme...



Front Page Drawings Specifications Claims



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Thank You!