



# 研发立项前的 专利文献检索及分析

专利文献部 文献传播处

贾丹明

Jiadanming@sipo.gov.cn

2010.05.13

- 1 认识专利文献检索
- 2 影响检索结果的因素
- 3 研发立项前的技术信息检索
- 4 技术信息分析
- 5 利用同族专利信息
- 6 利用法律状态信息

# 一、认识专利文献检索

了解某领域技术发展状况

寻求技术解决方案

专利回避设计与技术创新

引进技术并对其做出评价

指导产品上市或出口从而避免侵权

监视竞争对手发展动态及技术优势

专利有效性和侵权分析

专利申请

专利无效

# 一、认识专利文献检索

找到所有记载相同主题的文献

技术信息检索

找到一份与该技术方案完全相同或最接近的专利文献

新颖性检索

查看一件申请的技术方案还在哪些国家递交了申请

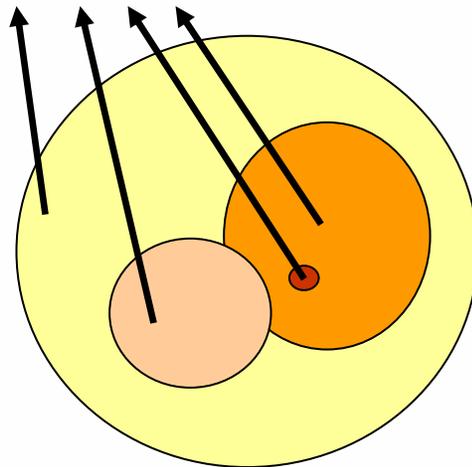
同族专利检索

法律状态检索

查看一件专利文献是否被授权，是否是有效的专利权

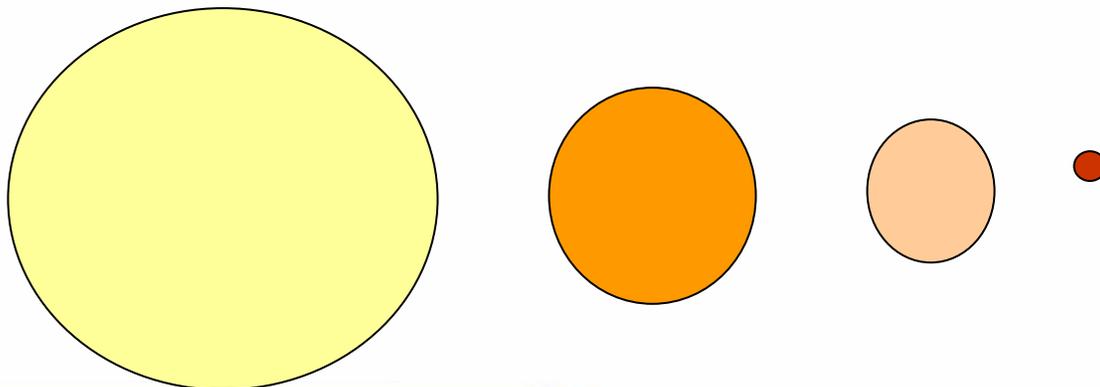
# 一、认识专利文献检索

新颖性检索：找到相同技术方案的一篇文献即可。

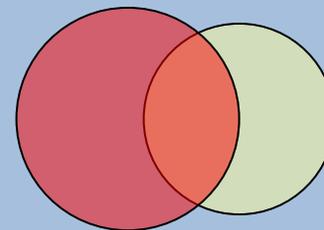


如果没有完全相同的，找最接近的。

技术信息检索：找到相同技术主题的所有文献。

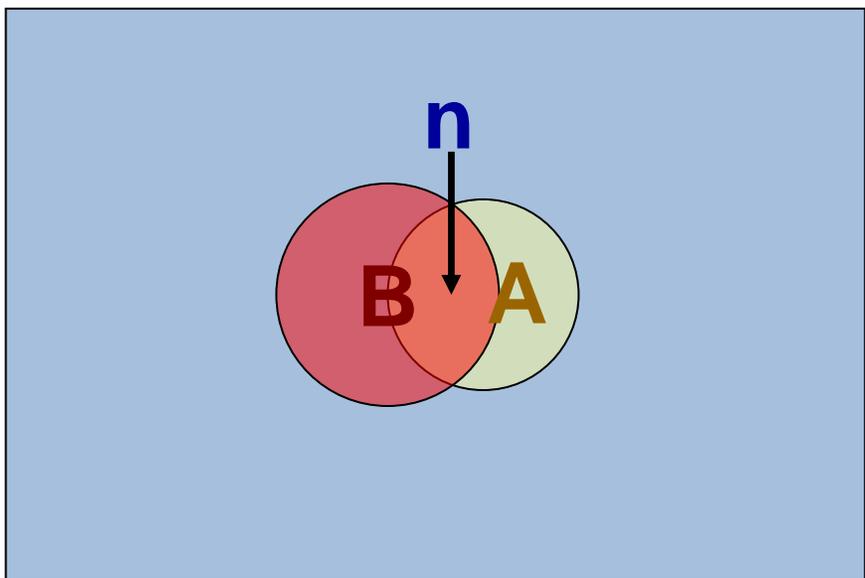


# 一、认识专利文献检索



result=3560

# 一、认识专利文献检索



查全率:

$$\frac{n}{A} \times 100\%$$

查准率:

$$\frac{n}{B} \times 100\%$$

## 二、影响检索结果的因素

良好的检索结果

相互影响  
共同作用

数据量

数据特点

检索功能

检索策略

# 二、影响检索结果的因素——数据量

## 数据库内容

1985年9月10日以来公布的全部中国专利信息，包括发明、实用新型和外观设计三种专利的著录项目及摘要，并可浏览到各种说明书全文及外观设计图形。

### **Coverage of the EP database**

This database contains the whole collection of European patent applications published by the European Patent Office.

You can perform searches in the full text of these applications.

### **Coverage of the WIPO database**

This database contains the whole collection of PCT patent applications published by the [WIPO](#) .

You can perform searches in the full text of these patent applications.

## 二、影响检索结果的因素—— 数据量

### **Bibliographic coverage of the worldwide database**

*espacenet* holds data on more than 65 million patents from 90 countries.

The following table gives an overview of the availability of the PCT minimum documentation in the worldwide database:

<b>Country</b>	<b>Facsimiles from</b>	<b>Abstracts from</b>	<b>European Classification (ECLA)</b>
CH	1888, from CH1 onwards	1970	1888
DE	1877, from DE1 onwards	1970	1877, from DE1 onwards
EP	1978, from EP1 onwards	1978	1978
FR	1900	1970	1902
GB	1859	1893	1859
US	1836, from US1 onwards	1970	1836, from US1 onwards

# 二、影响检索结果的因素——数据量

## Patent Full-Text Database Contents

Patent numbers in the US Patent Full-Text Database, by type and year.

Database	Utility***	Design	Plant	Reissue (RD, RE, RI)*	Defensive Pub. **	SIR	AI***
1976-2005	3,930,271- current	D242,583- current	PP3,987- current	RE28,671- current	T100,001- T109201; T942,001- T999,003	H1- current	
1790-1975	X1- X11,280; 1-3,930,270	D1- D242,880	PP1- P4,000	RX1-RX125; RE1- RE29,094	T855,019- T941,025;		AI2- AI318

## Stored Data Information(Patent Abstracts of Japan)

The range of stored records is following.

### Document

### Description

### Range of Stored Records

Patent Publication 51-111001 - 2010-022201 (28.01.2010) 8943115 Records

# 二、影响检索结果的因素—— 数据特点

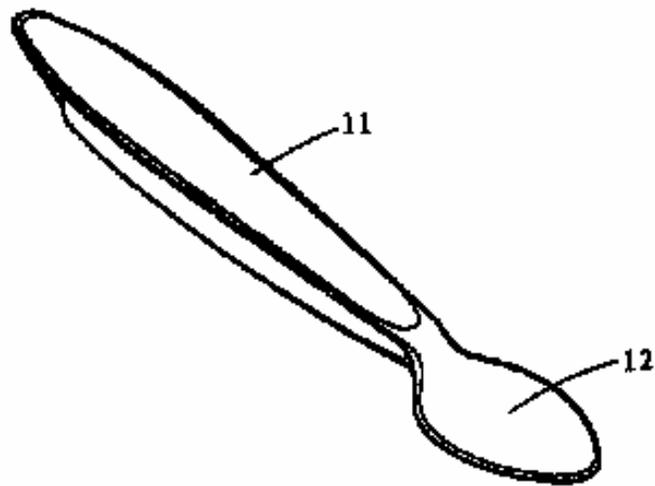
## 1. 技术用语上位

**[54] 发明名称**

分发用具

**[57] 摘要**

本发明是一种分发用具(10)，其具有传统的工具端(12)和位于手柄(11)中用于容纳配料的可密封的室(15)。由于两件式柔性顶壁(19)和大致壳状的长形手柄体部的使用，所述分发用具与管状分发用具相比能够更为容易和廉价地制造、填充和组装。



# 二、影响检索结果的因素—— 数据特点

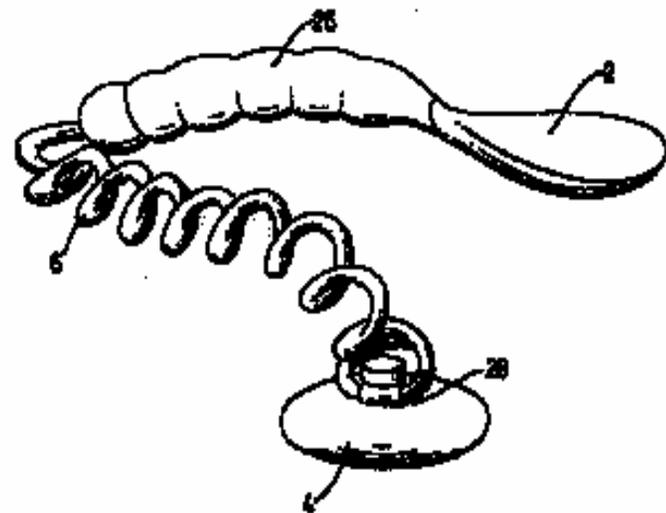
## 1. 技术用语上位

[54] 发明名称

进食辅助设备

[57] 摘要

一种用来训练幼儿自己吃东西的进食辅助设备。该进食辅助设备包括一进食器具(2)，用于将进食辅助设备固定在表面的锚定装置(4)，以及将所述进食器具连接至所述锚定装置的弹性元件(6)。



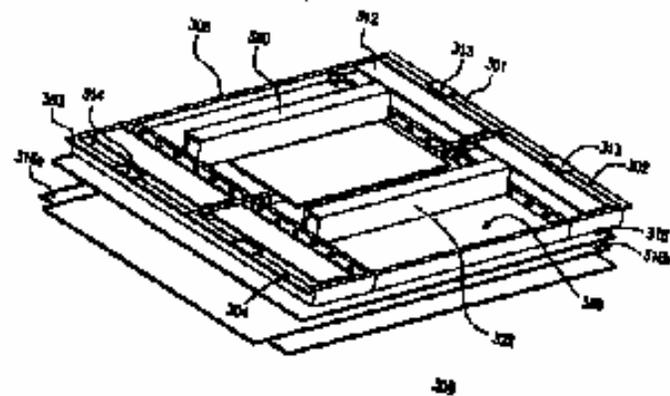
# 二、影响检索结果的因素——数据特点

## 2. 用语不统一

[54] 发明名称 电浆显示装置的支撑背板结构

[57] 摘要

本发明是关于一种电浆显示装置的支撑背板结构，其电浆显示装置主要是由一电浆显示面板、一导热垫片、一支撑背板以及至少一控制电路板所构成。支撑背板是由多个板状支撑组件、多个第一连接组件、多个第二连接组件所构成。每一板状支撑组件的边缘具有多个接合部。此外，每一板状支撑组件具备至少一条状凸起。第一连结组件以及第二连结组件的边缘分别与板状支撑组件的不同接合部相连接。上述支撑背板中的板状支撑组件具有几何形状单纯、尺寸小，因此易于加工、组装，可节省加工与组装成本。



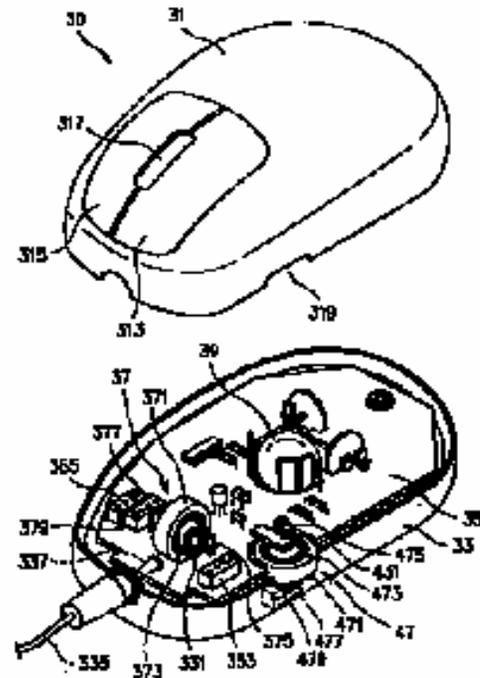
# 二、影响检索结果的因素—— 数据特点

## 2. 用语不统一

[54] 发明名称 具有多轴讯号输入装置的滑鼠

[57] 摘要

本发明是有关于一种滑鼠，尤指一种具有多轴讯号输入装置的滑鼠，其主要构造是包括有一上盖及一底座，其中除了在上盖的顶侧端装设有至少一第一槽孔外，还在滑鼠外壳体的一旁侧端装设有至少一第二槽孔，相对于第一槽孔及第二槽孔位置，于底座的一界面电路板上亦同样固设有一第一卷轴控制器及第二卷轴控制器，第一卷轴控制器的第一转轮有部分体积将可穿透第一槽孔，并凸露于滑鼠外壳体的顶侧端，可用以控制视窗画面的垂直上下卷轴或第三轴，而第二卷轴控制器的第二转轮有部分体积则可穿透第二槽孔，并凸露于滑鼠外壳体的旁侧端，可用以控制视窗画面的水平左右卷轴或第四轴，由此以方便使用者操控并选择视窗画面的位置。



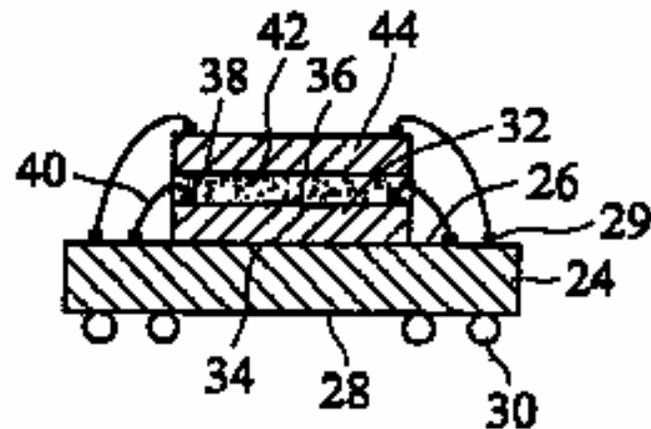
# 二、影响检索结果的因素——数据特点

## 2. 用语不统一

**[54]实用新型名称 堆叠构造积体电路装置**

**[57]摘要**

本实用新型涉及积体电路,使便于制造。基板有一第一表面及一第二表面,第一表面形成有一讯号输入端;第二表面形成有一用以电连接于电路上的讯号输出端;下层积体电路设有一第一表面及一第二表面,第一表面粘设于基板的第一表面上,第二表面具有一个以上焊垫;该等导线一端电连接于下层积体电路的焊垫上,另一端电连接于基板的讯号输入端;保护层涂布于下层积体电路的第二表面并包覆导线;上层积体电路粘着于保护层上。用于电器。



## 二、影响检索结果的因素—— 数据特点

### 3. 一词多义

- **BANK:**

英汉汽车大词典

n. 车床

n. 气缸侧体

英汉水利大词典

n. 堤, 岸, 滩

英汉贸易大词典

n. 银行

英汉中医大词典

n. 库

英汉航空大词典

n. 倾斜, 坡度

n. 使倾斜, 倾斜飞行

英汉广播大词典

n. 一组灯光, 把灯光合成一组

信息学专业词典

n. 存储体

矿业专业词典

n. 阶段

## 二、影响检索结果的因素—— 数据特点

### 4. 一词多领域

- 汤匙：
  - 【发明名称】电光探照压舌器  
类似汤匙形的压舌板体
  - 【发明名称】瓷插式熔断器  
汤匙凹状固定槽
  - 【发明名称】自动烟具  
呈汤匙型的左端部
  - 【发明名称】组合旅行盒  
毛巾盒内可放毛巾、短筷子、小汤匙、头梳等物
  - 【发明名称】多株口服饮  
田鸡油空腹服一汤匙

## 二、影响检索结果的因素—— 数据特点

### 5. 一义多词

- “磁带盒”：  
cassette?, box??. contain???, packag???, cartridge?,  
tray? .....
- “发光”：  
emit+, light+, +transmit+, +send+, transceiv?.....
- “汽车”：  
car?, automobile?, vehicle?, sedan?, horseless  
carriage? .....

## 二、影响检索结果的因素—— 数据特点

### 6. 一名多译

- 英国**STRIX LTD:**  
CN1248383 斯特里克斯  
CN1364061 施特里克斯
- 德国**BRAUN:**  
百灵、伯朗、布来恩、博朗
- 美国**Minnesota Mining and Manufacturing Company :**  
3M、明尼苏达州矿山制造公司、明尼苏达州采矿制造公司
- 荷兰**Philips:**  
飞利浦公司、菲利浦公司

## 二、影响检索结果的因素—— 数据特点

### 7. 一名多拼写

- **IBM公司：**  
IBM CORPORATION  
IBM CORP.  
INTERNATIONAL BUSINESS MACHINES  
INTERNATIONAL BUSINESS MACHINES CORPORATION  
INTERNATIONAL BUSINESS MACHINES CORP.  
INTERNATIONAL BUSINESS MACHINES INC  
INTERNATIONAL BUSINESS MACHINES INCORP.  
INTERNATIONAL BUSINESS MACHINES INCORPATION  
INTERNAL BUSINESS MACHINES CORPORATION  
INTERNATION BUSINESS MACHINES CORPORATION

## 二、影响检索结果的因素—— 数据特点

### 8. 机构变化

- 公司兼并与分离：  
IBM公司并购Lotus公司
- 集团公司与子公司：  
华为技术有限公司  
潍坊开发区华为电气有限公司  
深圳市华为电气股份有限公司  
杭州华为三康技术有限公司

# 二、影响检索结果的因素——数据特点

## 9. 权属转移

- 专利权受让与转让:

### Patent Assignor Summary

***NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.***

**Search Criteria:** Assignor Name = IBM

Total: 1013

Page 1 of 41

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [20](#) [30](#) [40](#) [41](#)

APPL#	PAT#	PGPub#	NAME
08626115	<a href="#">5667586</a>		<a href="#">IBM</a>
09520668	<a href="#">6191989</a>		<a href="#">IBM</a>
09603632	<a href="#">6269040</a>		<a href="#">IBM</a>
09703963	<a href="#">6335890</a>		<a href="#">IBM</a>
09584027	<a href="#">6384661</a>		<a href="#">IBM</a>
09584028	<a href="#">6404257</a>		<a href="#">IBM</a>
09584871	<a href="#">6609093</a>		<a href="#">IBM</a>
09918081	<a href="#">6839861</a>	<a href="#">US20030023891</a>	<a href="#">IBM</a>
09734154	<a href="#">7043420</a>	<a href="#">US20020116173</a>	<a href="#">IBM</a>
09232349	<a href="#">6200709</a>		<a href="#">IBM CREDIT LLC</a>
09443849	<a href="#">6552555</a>		<a href="#">IBM CREDIT LLC</a>
09904014	<a href="#">6696910</a>	<a href="#">US20030011458</a>	<a href="#">IBM CREDIT LLC</a>
09283477	<a href="#">6765950</a>		<a href="#">IBM CREDIT LLC</a>
09904306	<a href="#">6838750</a>	<a href="#">US20030011049</a>	<a href="#">IBM CREDIT LLC</a>
09781459	<a href="#">7042952</a>		<a href="#">IBM CREDIT LLC</a>
06816650	<a href="#">4652809</a>		<a href="#">IBM CANADA LTD.</a>
08122298	<a href="#">5387927</a>		<a href="#">IBM CANADA LTD.</a>
08348951	<a href="#">5453786</a>		<a href="#">IBM CANADA LTD.</a>

# 二、影响检索结果的因素—— 数据特点

## 9. 权属转移

- 专利权受让与转让:

United States Patent  
Pinarbasi

6,560,078  
May 6, 2003

Bilayer seed layer for spin valves

### Abstract

An apparatus is described comprising a seed layer between a gap layer and an Iridium Manganese (IrMn) antiferromagnetic layer. The seed layer comprises an oxide layer next to a magnetic layer.

Inventors: Pinarbasi; Mustafa (Morgan Hill, CA)

Assignee: International Business Machines Corporation (Armonk, NY)

Appl. No.: 09/615,359

Filed: July 13, 2000

Current U. S. Class:

360/324.11

Current International Class:

H01F 10/00 (20060101); G11B 5/012 (20060101); H01F 10/32 (20060101); G11B  
5/39 (20060101); G11B 005/39 ()

Field of Search:

360/324.11, 324.1 324/207.21 338/32R

# 二、影响检索结果的因素—— 数据特点

## 9. 权属转移

- 专利权受让与转让:

### Total Assignments: 2

Patent #: [6560078](#)

Issue Dt: 05/06/2003

Application #: 09615359

Filing Dt: 07/13/2000

Inventor: Mustafa Pinarbasi

Title: BILAYER SEED LAYER FOR SPIN VALVES

### Assignment: 1

Reel/Frame: [010945/0390](#)

Recorded: 07/13/2000

Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: [PINARBASI, MUSTAFA](#)

Exec Dt: 07/10/2000

Assignee: [IBM](#)

CORPORATION OF NEW YORK  
NEW YORK, NEW YORK 10504

Correspondent: BLAKELY, SOKOLOFF, TAYLOR & ET AL.

JOHN P. WARD  
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR  
LOS ANGELES, CA 90025-1030

### Assignment: 2

Reel/Frame: [016824/0508](#)

Recorded: 09/21/2005

Pages: 6

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: [INTERNATIONAL BUSINESS MACHINES CORPORATION](#)

Exec Dt: 12/31/2002

Assignee: [HITACHI GLOBAL STORAGE TECHNOLOGIES NETHERLANDS B.V.](#)

LOCATELLIKADE 1  
PAMASSUSTOREN  
1076 AZ AMSTERDAM, NETHERLANDS

Correspondent: HITACHI GLOBAL STORAGE TECHNOLOGIES

INTELLECTUAL PROPERTY LAW  
MAILSTOP NHGB/014-2  
5600 COTTLE ROAD  
SAN JOSE, CA 95193

# 二、影响检索结果的因素—— 检索功能

[19] 中华人民共和国国家知识产权局

[51] Int. Cl<sup>7</sup>

H04J 13/00

H04B 7/15 H04H 1/00



[12] 发明专利申请公开说明书

[21] 申请号 200410028285.6

[43] 公开日 2004年10月13日

[11] 公开号 CN 1536800A

[22] 申请日 1998.7.3

[21] 申请号 200410028285.6

分案原申请号 98800925.0

[30] 优先权

[32] 1997.7.3 [33] JP [31] 178659/1997

[32] 1997.7.3 [33] JP [31] 178674/1997

[32] 1997.7.3 [33] JP [31] 178676/1997

[32] 1997.7.3 [33] JP [31] 178677/1997

[32] 1997.7.3 [33] JP [31] 178678/1997

[32] 1997.7.3 [33] JP [31] 178679/1997

[71] 申请人 株式会社东芝

地址 日本东京都

[72] 发明人 末永雅士 冈 优 小石洋一

藤森之美 菊池英男

[74] 专利代理机构 中国国际贸易促进委员会专利  
商标事务所

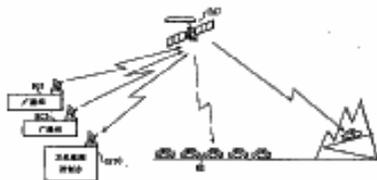
代理人 李德山

权利要求书3页 说明书66页 附图36页

[54] 发明名称 卫星广播系统

[57] 摘要

在一种广播接收机中,为了以高响应速度迅速地转换所接收多路复用广播信号的信道,以使收视者更方便,当要将多个信道的广播信号码分多路复用,并由地面广播站(BC1, BC2)通过地球同步卫星(SAT)向在服务区中的广播接收机(MS)广播时,在使地面广播站(BC1, BC2)中的信道之间的扩展码相位匹配后,才将这些广播信号多路复用和发送。



1 0 0 8 - 4 2 7 4

# 二、影响检索结果的因素

## 检索功能



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

(10) **Patent No.:** US 6,996,077 B1  
(45) **Date of Patent:** Feb. 7, 2006

(54) **SATELLITE BROADCASTING SYSTEM**

(75) **Inventors:** Masashi Suenaga, Zushi (JP); Masaru Oka, Yokohama (JP); Yoichi Koishi, Tokyo (JP); Yukiyoishi Fujimori, Yokohama (JP); Hideo Kikuchi, Kawaguchi (JP)

5,099,245 A \* 3/1992 Sagey ..... 342/357  
5,101,501 A 3/1992 Gilhausen et al.

(Continued)

**FOREIGN PATENT DOCUMENTS**

EP 0 707 389 \* 4/1996  
JP 58-3339 1/1983  
JP 58-045286 3/1983

(Continued)

**OTHER PUBLICATIONS**

R. De Gaudenzi, et al., IEEE Transactions on Vehicular Technology, vol. 43, No. 2, pp. 194-210, "Analysis of An Advanced Satellite Digital Audio Broadcasting System and Complementary Terrestrial Gap-Filler Single Frequency Network", May 1994.

(Continued)

(73) **Assignee:** Kabushiki Kaisha Toshiba, Kawasaki (JP)

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/147,763

(22) **PCT Filed:** Jul. 3, 1998

(86) **PCT No.:** PCT/JP98/03020

§ 371 (c)(1),  
(2), (4) **Date:** Mar. 3, 1999

(87) **PCT Pub. No.:** WO99/01957

**PCT Pub. Date:** Jan. 14, 1999

(30) **Foreign Application Priority Data**

Jul. 3, 1997 (JP) .....	9-178659
Jul. 3, 1997 (JP) .....	9-178674
Jul. 3, 1997 (JP) .....	9-178676
Jul. 3, 1997 (JP) .....	9-178677
Jul. 3, 1997 (JP) .....	9-178678
Jul. 3, 1997 (JP) .....	9-178679

(51) **Int. Cl.**  
**H04B 7/216** (2006.01)

(52) **U.S. Cl.** ..... 370/320; 370/316; 370/343

(58) **Field of Classification Search** ..... 370/320; 370/324, 281, 319, 203, 330, 331, 310, 329; 455/13.2-13.4, 12.1, 21, 20, 427, 103, 63, 455/428, 166.1, 186.2, 272, 450; 375/130-134, 375/200-219, 5, 63, 320-322, 270, 301, 375/364, 376; 348/732-734; 342/457, 352; 704/275

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

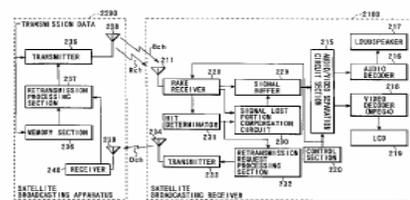
4,617,674 A \* 10/1986 Mangulis et al.

*Primary Examiner*—Chi Pham  
*Assistant Examiner*—Prenell Jones  
(74) *Attorney, Agent, or Firm*—Obalon, Spivak, McClelland, Maier & Neustadt, P.C.

(57) **ABSTRACT**

In a broadcasting receiver, to quickly switch channels of the received multiplexed broadcasting signals at a high response speed to improve the convenience for a viewer, when broadcasting signals of a plurality of channels are to be code-division-multiplexed and broadcasted from a ground broadcasting station (BC1, BC2) to a broadcasting receiver (MS) in a service area via a geostationary satellite (SAT), the broadcasting signals are multiplexed and transmitted after matching the spreading code phase between the channels in the ground broadcasting station (BC1, BC2). Alternatively, the spreading code phase difference between the channels of a CDM broadcasting signal arriving from the ground broadcasting station (BC1, BC2) is detected in the geostationary satellite (SAT), and the broadcasting signal is transmitted to the broadcasting receiver (MS) after matching the spreading code phase between the channels on the basis of the detection result.

**168 Claims, 36 Drawing Sheets**



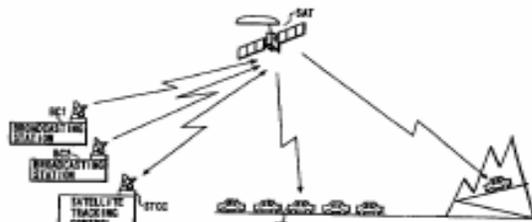
# 二、影响检索结果的因素—— 检索功能

<p>(19)  <b>Europaisches Patentamt</b> <b>European Patent Office</b> <b>Office européen des brevets</b></p>	<p>(11)  <b>EP 0 936 766 A1</b></p>
<p>(12) <b>EUROPEAN PATENT APPLICATION</b> published in accordance with Art. 158(3) EPC</p>	
<p>(43) Date of publication: 18.08.1999 Bulletin 1999/33</p>	<p>(51) Int. Cl.<sup>5</sup>: <b>H04J 13/00</b>, H04B 7/15, H04H 1/00</p>
<p>(21) Application number: 98929837.7</p>	<p>(86) International application number: PCT/JP98/03020</p>
<p>(22) Date of filing: 03.07.1996</p>	<p>(87) International publication number: WO 99/01957 (14.01.1999 Gazette 1999/02)</p>
<p>(84) Designated Contracting States: DE FR GB</p> <p>(30) Priority: 03.07.1997 JP 17865997 03.07.1997 JP 17867497 03.07.1997 JP 17867697 03.07.1997 JP 17867797 03.07.1997 JP 17867897 03.07.1997 JP 17867997</p> <p>(71) Applicant: <b>KABUSHIKI KAISHA TOSHIBA</b> Kawasaki-shi, Kanagawa-ken 210-8572 (JP)</p>	<p>(72) Inventors: • <b>SUENAGA, Masashi</b> Kanagawa-ken 249-0004 (JP) • <b>OKA, Masaru</b> Kanagawa-ken 236-0046 (JP) • <b>KOISHI, Yoichi</b> Tokyo 143-0022 (JP) • <b>FUJIMORI, Yukiyo</b> Kanagawa-ken 247-0007 (JP) • <b>KIKUCHI, Hideo</b> Kawaguchi-shi, Saitama-ken 332-0017 (JP)</p> <p>(74) Representative: <b>Henkel, Feller, Hänzel</b> Möhlstrasse 37 81675 München (DE)</p>

(54) **SATELLITE BROADCASTING SYSTEM**

(57) In a broadcasting receiver, to quickly switch channels of the received multiplexed broadcasting signals at a high response speed to improve the convenience for a viewer, when broadcasting signals of a plurality of channels are to be code-division-multiplexed and broadcasted from a ground broadcasting station (BC1, BC2) to a broadcasting receiver (MS) in a service area via a geostationary satellite (SAT), the broadcasting signals are multiplexed and transmitted after matching the spreading code phase between the channels in

the ground broadcasting station (BC1, BC2). Alternatively, the spreading code phase difference between the channels of a CDM broadcasting signal arriving from the ground broadcasting station (BC1, BC2) is detected in the geostationary satellite (SAT), and the broadcasting signal is transmitted to the broadcasting receiver (MS) after matching the spreading code phase between the channels on the basis of the detection result.



766 A1

# 二、影响检索结果的因素——检索功能

## 1. 检索入口与著录项目

### 著录项目

- 公布局
- 文献类型
- 分类号
- 公开公告日
- 公开公告号
- 优先权
- 申请人
- 发明人
- 发明名称
- 摘要

### 检索入口

- CL
- KW
- IC
- PD
- PN
- PR
- PA
- IN
- TI
- AB

# 二、影响检索结果的因素—— 检索功能

## 2.检索入口与功能

您现在的位置: 首页 > 专利检索

专利检索

网站技术支持: 010-82000860转8214 转8212

发明专利     实用新型专利     外观设计专利

申请(专利)号:	<input type="text"/>	名称:	<input type="text"/>
摘要:	<input type="text"/>	申请日:	<input type="text"/>
公开(公告)日:	<input type="text"/>	公开(公告)号:	<input type="text"/>
分类号:	<input type="text"/>	主分类号:	<input type="text"/>
申请(专利权)人:	<input type="text"/>	发明(设计)人:	<input type="text"/>
地址:	<input type="text"/>	国际公布:	<input type="text"/>
颁证日:	<input type="text"/>	专利代理机构:	<input type="text"/>
代理人:	<input type="text"/>	优先权:	<input type="text"/>

检索

清除

# 二、影响检索结果的因素—— 检索功能

## 2.检索入口与功能

中国专利数据库检索系统

中国专利信息中心 留言及意见 在线帮助 免责声明 English

2008年3月9日 星期日

表格检索 高级检索

高级检索>> [导入检索式](#) [运行检索式](#) [清空结果集](#) [导出检索式](#) [清空工作区](#) [清除最后1行](#) [清除最后10行](#)

ID表达式	结果	#
1 F KV 汤匙 + 勺子	Hits(487)	<a href="#">查看结果 1</a>
2 F IC a47g01924	Hits(6)	<a href="#">查看结果 2</a>
3 F IC a47g01924 + a47g02102 + a47g02104	Hits(480)	<a href="#">查看结果 3</a>
4 1-3	Hits(273)	<a href="#">查看结果 4</a>

检索式: 1-3 [检索] [清空]

逻辑符: + - \* ( ) F AP 200810090473: F PUJ 20050801: F DZ 北京 [检索使用说明](#)

- F AP(申请号)
- F TY(专利类型)
- F PUB(公开号)
- F PH(公告号)
- F PD(公告日)
- F AD(申请日)
- F PUD(公开日)
- F IC(国际分类号)
- F TI(名称)
- F AB(摘要)
- F CL(权利要求)
- F PR(优先权项)
- F AG(代理机构代码)
- F OO(国际省市代码)
- F DZ(申请人地址)
- F KV(关键词)
- F PA(申请人)
- F IN(发明人)
- F VFT(主题词)
- J 1>2 (逻辑运算)

# 二、影响检索结果的因素——检索功能

## 2.检索入口与功能

Data current through February 12, 2008.

Query [\[Help\]](#)

Examples:

ttl/(tennis and (racquet or racket))

isd/1/8/2002 and motorcycle

in/newmar-julie

Select Years [\[Help\]](#)

1976 to present [full-text] ▼

Search

重置

Patents from 1790 through 1975 are searchable only by Issue Date, Patent Number, and Current US Classification. When searching for specific numbers in the Patent Number field, patent numbers must be seven characters in length, excluding commas, which are optional.

Field Code	Field Name	Field Code	Field Name
PN	<a href="#">Patent Number</a>	IN	<a href="#">Inventor Name</a>
ISD	<a href="#">Issue Date</a>	IC	<a href="#">Inventor City</a>
TTL	<a href="#">Title</a>	IS	<a href="#">Inventor State</a>
ABST	<a href="#">Abstract</a>	ICN	<a href="#">Inventor Country</a>
ACLM	<a href="#">Claim(s)</a>	LREP	<a href="#">Attorney or Agent</a>
SPEC	<a href="#">Description/Specification</a>	AN	<a href="#">Assignee Name</a>
CCL	<a href="#">Current US Classification</a>	AC	<a href="#">Assignee City</a>
ICL	<a href="#">International Classification</a>	AS	<a href="#">Assignee State</a>

# 二、影响检索结果的因素—— 检索功能

## 2.检索入口与功能

### Searching PAJ

MENU

NEWS

HELP

Search Results : 690

Index Indication

Clear

Text Search

If you want to conduct a Number Search, please click on the button to the right.

Number Search

Applicant, Title of invention, Abstract --- e.g. computer semiconductor

If you use the AND/OR operation, please leave a SPACE between keywords.  
One letter word or [Stopwords](#) are not searchable.

styrene

AND

AND

AND

AND

AND

AND

Date of publication of application --- e.g. 19980401 - 19980405

20060101

=

20070101

AND

IPC --- e.g. 001B7/04 A01C11/02

If you use the OR operation, please leave a SPACE between keywords.

Search

Stored data

### 三、研发立项前的技术信息检索

1

正确理解技术主题

2

确定技术主题的技术领域

3

确定能够进一步限定的概念

4

对限定概念进行表达

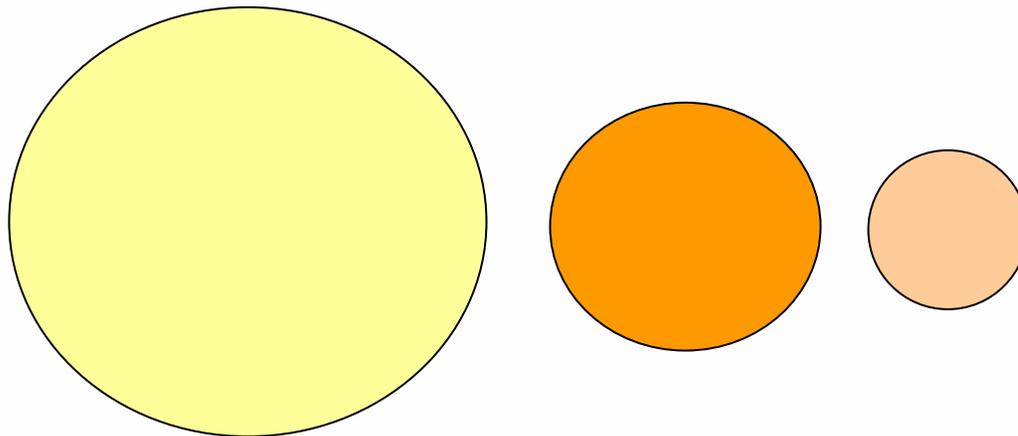
5

构造检索式

6

动态调整检索式

## 1 正确理解技术主题



- 尽可能了解背景技术；
- 对没有描述的技术特征不要做任何限制理解；
- 不要用具体的实施例限制对技术主题的理解；
- 尽可能想到各种应用领域；
- 尽可能想到可实现的各种功能。

## 1 正确理解技术主题

- 例：  
中草药制备的杀虫剂
  - 灭蚊杀菌香？
  - 灭蟑颗粒？
  - 空气净化杀菌香片？
  - 防蛀卫生球？
  - 杀灭各种病菌的消毒点钞液？
  - 农用中草药杀虫剂？

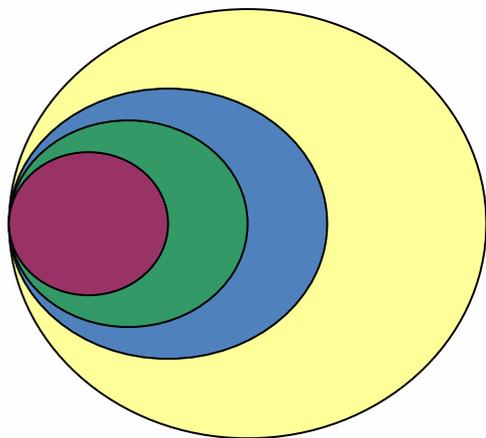
## 1 正确理解技术主题

- 例：  
榨汁机
  - 处理大量蔬菜、水果、花球茎的机械或装置？
  - 厨房用的水果榨汁机？
  - 厨房用的豆浆机？
  - 糖汁的生产，如从甘蔗或类似原料榨取汁的机械？
  - 从含油物质中挤油的装置？

## 2

### 确定技术方案的技术领域

- 实际上是确定技术方案的IPC分类位置
  - 将技术主题作为一个整体来分类，而不是对其各个组成部分分别进行分类；
  - 确定技术主题所有可能的IPC分类；



## 2

### 确定技术方案的技术领域

- 既要注意功能分类位置
- 也要注意应用分类位置
- 例：  
    一种外科手术切割器械
- 功能分类位置：通用的外科手术器械A61B17/32
- 应用分类位置：专用于眼科手术的器械A61F9/007

## 2

## 确定技术方案的技术领域

- 全面的找出技术方案的**IPC**分类位置的过程就是确定检索技术领域的过程；
- 确定所定义的主题范围完全符合检索技术主题的分类位置；（**C1、C2、C3**）
- 确定不完全符合检索技术主题的，但是与检索技术主题有关的那些分类；（**U1、U2、U3**）
- 注意是否有外观设计分类。

## 2

### 确定技术方案的技术领域

- 例：

#### 农用中草药杀虫剂

**A 部** 人类生活必需

**A01** 农业；林业；畜牧业；狩猎；诱捕；捕鱼

**A01N** 人体、动植物体或其局部的保存；杀生剂，例如作为消毒剂，作为农药，作为除草剂（医用、牙科用或梳妆用的配制品入 **A61K**；一般用于消毒或灭菌的方法或设备，或用于空气除臭的入 **A61L**）；害虫驱避剂或引诱剂（引诱物入 **A01M 31/06**；医用配制品入 **A61K**）；植物生长调节剂（化合物本身入 **C01, C07, C08**；肥料入 **C05**；土壤改良剂或稳定剂入 **C09K 17/00**）

## 2

### 确定技术方案的技术领域

- 例：

#### 农用中草药杀中剂

A01N 65/00 含有藻类、地衣、苔藓、多细胞真菌或植物材料，或其提取物的杀生剂、害虫驱避剂或引诱剂或植物生长调节剂（含有已确定的化合物入 A01N 27/00 至 A01N 59/00）（3，2009.01）

A01N 65/02 （转入 A01N 65/38）

A01N 65/03 ·水藻（2009.01）

A01N 65/04·蕨类植物；真蕨门（2009.01）

A01N 65/06·裸子植物，例如丝柏（2009.01）

A01N 65/08·双叶子植物纲（2009.01）

A01N 65/10·伞形科，例如欧芹，葛缕子，蒔萝，独活草，茴香或蛇床子（2009.01）

A01N 65/12·紫菀科或菊科[紫菀或向日葵科]，例如雏菊，除虫菊，洋蓟，莴苣，向日葵，青蒿或龙蒿（2009.01）

A01N 65/14·卫矛科[南蛇藤或美洲南蛇藤科]，例如卫矛，南蛇藤或雷公藤（2009.01）

A01N 65/16·杜鹃花科[杜鹃花或越橘科]，例如杜鹃花，杨梅，马醉木，蔓越橘或覆盆子（2009.01）

A01N 65/18·大戟科，例如蓖麻（2009.01）

A01N 65/20·豆科[豌豆或豆荚植物]，例如豌豆，扁豆，大豆，车轴草，金合欢，皂角，鱼藤或鸡血藤（2009.01）

A01N 65/22·唇形科，例如百里香，迷迭香，黄芩，夏枯草，熏衣草，紫苏，唇萼薄荷，胡椒薄荷或留兰香（2009.01）

A01N 65/24·樟科，例如月桂，鳄梨，檫木，肉桂或樟树（2009.01）

### 3

### 确定能够进一步限定的概念

- 明确分类的主题与检索的技术主题的区别之处；
- 能体现技术主题基本构思；
- 与分类(**U1**、**U2**、**U3**)结合能够更好的筛选检索结果；
- 建议使用表格，使检索思路更清晰。

### 三、研发立项前的技术信息检索

#### 3

#### 确定能够进一步限定的概念

	检索的技术主题	
完全覆盖的 分类位置	C1	
	C2	
	C3	
需要限定的 分类位置	U1	限定概念 1
	U2	限定概念 2
	U3	限定概念 3

## 3

### 确定能够进一步限定的概念

	检索的技术主题	
完全覆盖的 分类位置		
需要限定的 分类位置	A01N65/00	限定概念 1
	A01N65/02	限定概念 2
		限定概念 3

#### 4 对限定概念进行表达

- 对限定概念的表达是连接数据库和实际结果的桥梁；
- 表达是否准确全面决定是否具有较高的查准率和查全率；
- 实际结果和预期可能不一致，需要不断调整表达；
- 一般用关键词表达；
- 注意使用同义词、近义词；
- 用排除方式表达限定概念。

## 4 对限定概念进行表达

- 例：  
农用中草药杀虫剂

蚊+蝇+鼠+蛀+蟑+调节+驱避+霉+病毒  
+寄生虫+蛲虫+昆虫+消毒+虱+衣物

#### 5 构造检索式

- 一般的：
- 检索结果= $C1+C2+C3+(U1*限定概念1)$   
 $+ (U2*限定概念2)+ (U3*限定概念3)$
- 对于用排除方式表达限定概念：
- 检索结果= $C1+C2+C3+(U1-限定概念1)$   
 $+ (U2-限定概念2)+ (U3-限定概念3)$

# 三、研发立项前的技术信息检索

## 5 构造检索式

- 例：农用中草药杀虫剂

中国专利数据库检索系统

中国专利信息中心 留言及意见 在线帮助 免责声明 English

2010年5月9日 星期日

表格检索

高级检索

高级检索>>

[导入检索式](#) [运行检索式](#) [清空结果集](#) [导出检索式](#) [清空工作区](#) [清除最后1行](#) [清除最后10行](#)

- [F AP\(申请号\)](#)
- [F TY\(专利类型\)](#)
- [F PUN\(公开号\)](#)
- [F PN\(公告号\)](#)
- [F PD\(公告日\)](#)
- [F AD\(申请日\)](#)
- [F PUD\(公开日\)](#)
- [F IC\(国际分类号\)](#)
- [F TI\(名称\)](#)
- [F AB\(摘要\)](#)
- [F CL\(权利要求\)](#)
- [F PR\(优先权项\)](#)
- [F AG\(代理机构代码\)](#)
- [F CO\(国别省市代码\)](#)
- [F DZ\(申请人地址\)](#)
- [F KW\(关键词\)](#)
- [F PA\(申请人\)](#)
- [F IN\(发明人\)](#)
- [F VFT\(主题词\)](#)
- [J 1\\*2\(逻辑运算\)](#)

ID表达式	结果	#
1 F IC a01n065	Hits(1910)	<a href="#">查看结果</a> 1
2 F KW 蚊+蝇+鼠+蛙+蟑+调节+驱避+霉+病毒+寄生虫+螨虫+昆虫+消毒+虱+衣物	Hits(133447)	<a href="#">查看结果</a> 2
3 1-2	Hits(1374)	<a href="#">查看结果</a> 3
4 1-3	Hits(536)	<a href="#">查看结果</a> 4

检索式

1-3

检索

清空

逻辑符

+ - \* ( )

F AP 200610090473;

F PUD 20050601;

F DZ 北京

[检索使用说明](#)

## 5 构造检索式

- 例：  
    农用中草药杀虫剂
- (1) **F IC A01N065 <hits: 1910>**
- (2) **F KW 蚊+蝇+鼠+蛀+蟑+调节+驱避+霉+病毒+寄生虫+  
    蛲虫+昆虫+消毒+虱+衣物 <hits: 133447>**
- (3) **1-2 <hits: 1374>**
- (4) **1-3 <hits: 536>**

►注意集合间的逻辑关系。

1. 200920013913 [一种防虫羊毛板](#)
2. 200910194502 [一种抑制海洋原甲藻和三角褐指藻的浒苔提取液制备方法](#)
3. 200910190418 [一种马尾藻素泡腾片及其制备方法](#)
4. 200910187691 [果蔬多元素油脂肥制法](#)
5. 200910176484 [一种中草复合杀虫剂的配方与工艺](#)
6. 200910166556 [苔藓植物作为植物外植体消毒剂的用途、及该消毒剂组合物及其制备方法和使用方法](#)
7. 200910166049 [一种预防苹果树腐烂病的伤口保护剂](#)
8. 200910162505 [艾蒿植物性杀螨剂及其制备方法](#)
9. 200910162504 [乌头植物性杀螨剂及其制备方法](#)
10. 200910160631 [猪牙皂植物性杀螨剂及其制备方法](#)
11. 200910160630 [紫穗槐植物性杀螨剂及其制备方法](#)
12. 200910152589 [一种植物源抑菌提取物及其应用](#)
13. 200910150601 [木本香薷植物性杀螨剂及制备方法](#)
14. 200910147579 [新型木材防腐剂](#)
15. 200910147300 [百部植物性杀螨剂及其制备方法](#)
16. 200910147299 [胡椒薄荷植物性杀螨剂及制备方法](#)
17. 200910143893 [多功能生态农业环保剂及其生产方法](#)
18. 200910142818 [一种用酶解方法制备海藻精的方法](#)
19. 200910140529 [桉硼天然防腐剂](#)
20. 200910136861 [一种复合型植物生长营养液的制备方法](#)
21. 200910135687 [寒地水稻早熟增产生物增长素](#)
22. 200910129023 [烟鸭环保农药及其光色味诱杀剂](#)
23. 200910119257 [用于生产农药制剂的香菇多糖母液及其制备方法](#)
24. 200910119177 [一种唐松草提取物及其新用途](#)
25. 200910119176 [一种益母草提取物及其新用途](#)
26. 200910119175 [一种槟榔提取物及其新用途](#)
27. 200910118117 [改良的红火蚁诱杀剂](#)

序号	申请号	名称
1.	200910307616	<a href="#">从怀槐中提取抑制木材腐朽菌提取物的方法</a>
2.	200910192449	<a href="#">一种艾草植物纤维蚊香及其制备方法</a>
3.	200910184051	<a href="#">一种抑制蔬菜灰霉菌植物源农药及其应用</a>
4.	200910167713	<a href="#">冷季型草本种子快速萌发引发剂</a>
5.	200910144611	<a href="#">一种复方中药消毒液及其制备方法</a>
6.	200910137987	<a href="#">中草药蚊香和中草药柱香的制造方法</a>
7.	200910130516	<a href="#">空气消毒清新剂、其制备方法和使用方法</a>
8.	200910116018	<a href="#">啤酒花驱蚊液</a>
9.	200910115340	<a href="#">一种驱灭蚊组合物及其制备方法</a>
10.	200910114133	<a href="#">绿色蚊蝇驱避剂配方及制备方法</a>
11.	200910112186	<a href="#">一种艾叶熏香</a>
12.	200910105565	<a href="#">复合消毒泡腾片剂及其制备方法</a>
13.	200910103245	<a href="#">防治稻飞虱的植物性农药</a>
14.	200910099639	<a href="#">一种固体清香驱蚊剂的制作方法</a>
15.	200910073936	<a href="#">一种中药药香</a>
16.	200910060483	<a href="#">一种魔芋种衣剂及其制备方法和包衣方法</a>
17.	200910047057	<a href="#">室内空气病毒致病菌克星的制备方法</a>
18.	200910044245	<a href="#">醋与空气消毒类中药组合的液体制剂</a>
19.	200910040021	<a href="#">一种环保抗菌防霉剂及其制造方法及应用</a>
20.	200910038275	<a href="#">一种甘草提取物的应用</a>
21.	200910037631	<a href="#">防霉片及其制作方法</a>
22.	200910033648	<a href="#">丁子香酚在制备防治作物病毒病农药中的应用</a>
23.	200910023276	<a href="#">中药驱蚊精油及便捷贴</a>
24.	200910022529	<a href="#">一种植物源蚊香增效剂</a>
25.	200910022528	<a href="#">一种植物源蚊香增效剂</a>
26.	200910017887	<a href="#">一种辟瘟香</a>
27.	200910017444	<a href="#">一种茶香及其制备方法</a>

#### 6

#### 动态调整检索式

- 技术方案的理解与检索是相互促进的；
- 对检索要素的表达一开始不一定全面和准确；
- 对数据库中的数据不断提高认识；
- 对同义词、近义词、相关分类号不断丰富和完善。

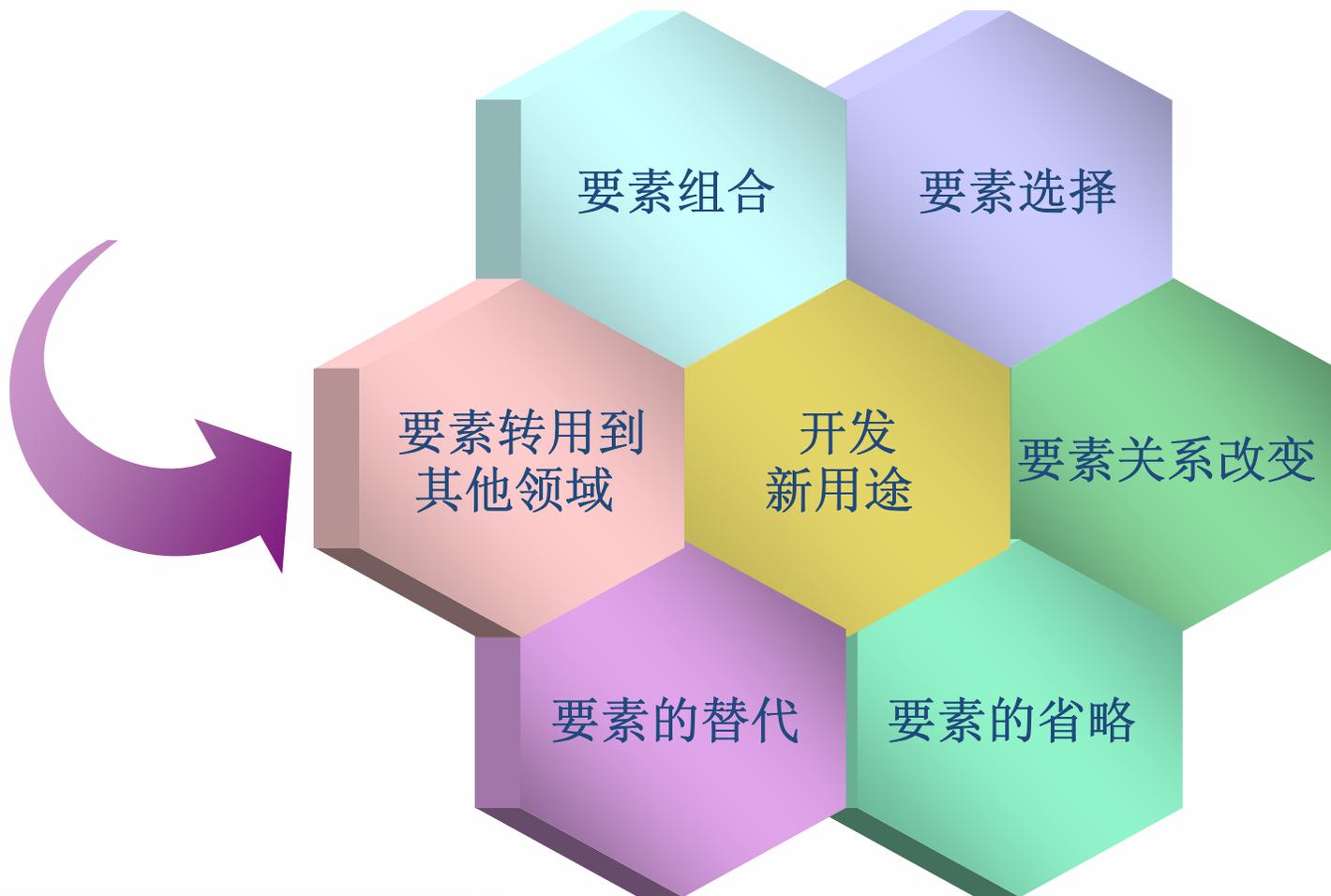
# 四、技术信息分析

## 1. 技术创新的类型



# 四、技术信息分析

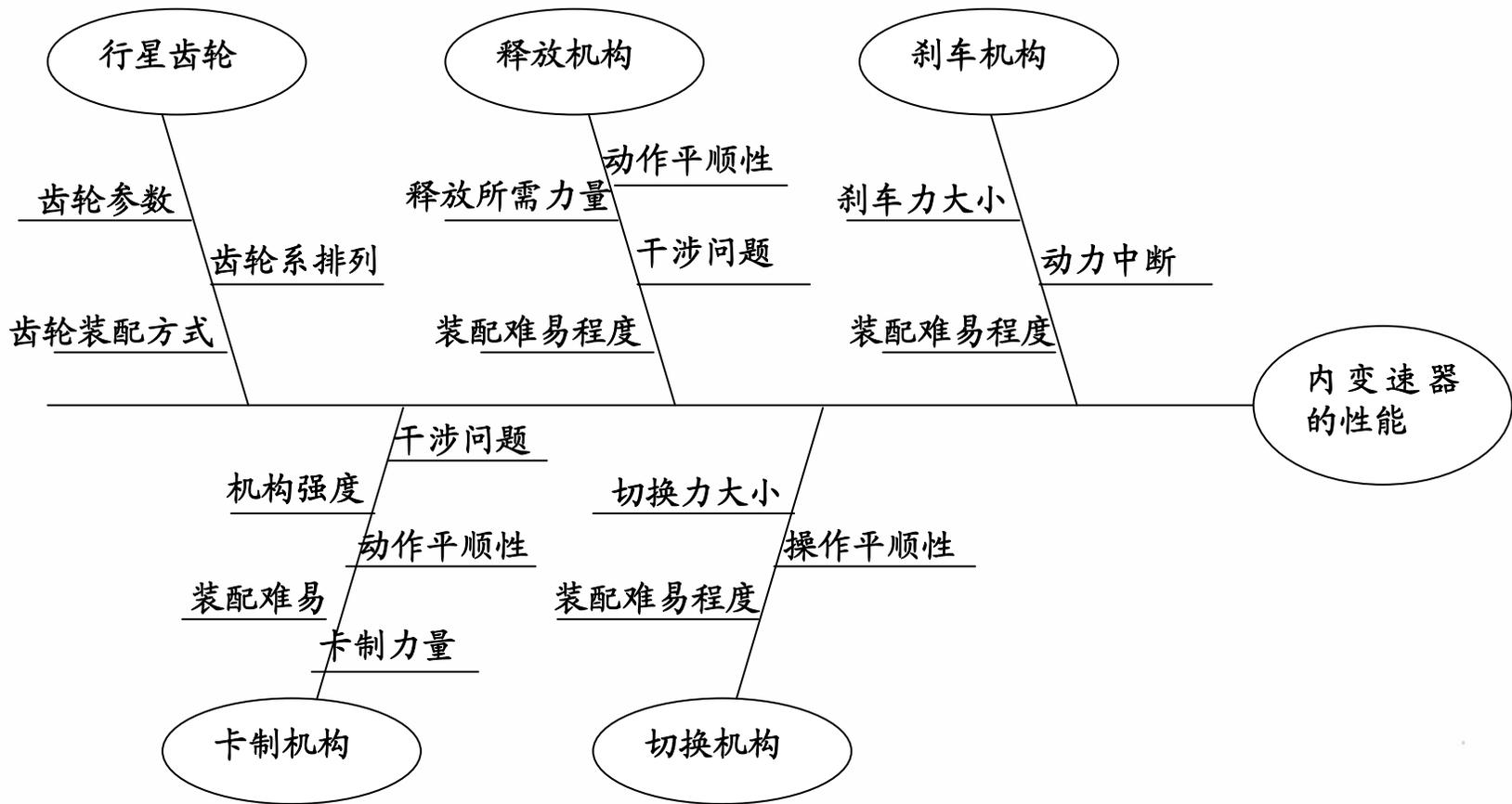
## 2.改造性技术创新的种类



# 四、技术信息分析

## 3.技术创新的步骤

(1) 分析技术方案，制作性能分析图



# 四、技术信息分析

## 3.技术创新的步骤

(2) 专利检索与分析，填写专利文献分析表

申请号		申请日		公开日	
申请人		申请人国籍		分类号	
发明名称				法律状态	
发明点					
核心方案					
独立权利要求					
有益效果					
主要附图					
对本发明的评价					
是否可以避免侵权					

# 四、技术信息分析

## 3.技术创新的步骤

### (3) 建立性能/技术方案列表

性能结构 \ 技术方案	行星齿轮	释放机构	刹车机构	卡制机构	切换机构
专利文献1	✓		✓		
专利文献2		✓			✓
专利文献3				✓	
专利文献4	✓		✓	✓	

每个性能部分都采用一种最佳方案，同时各部分之间建立新的连接关系。

# 五、利用同族专利信息

[19]中华人民共和国国家知识产权局

[51]Int. Cl<sup>7</sup>

H01G 9/04

H01G 9/045 H01G 9/00

## [12]发明专利申请公开说明书

[21]申请号 99110002.6

[43]公开日 2000年2月2日

[11]公开号 CN 1243325A

[22]申请日 1999.6.21 [21]申请号 99110002.6

[30]优先权

[32]1998.6.19 [33]JP [31]173056/98

[32]1999.3.26 [33]JP [31]083703/99

[71]申请人 松下电器产业株式会社

地址 日本国大阪府

[72]发明人 白石诚吾 井垣惠美子

棚桥正和

[74]专利代理机构 上海专利商标事务所

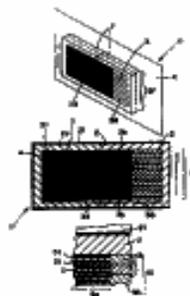
代理人 陈亮

权利要求书4页 说明书23页 附图页数19页

[54]发明名称 电解电容器、其阳极体、及其生产方法

[57]摘要

本发明提供了一种电解电容器,以及它的阳极体,它使用多片两金属箔的层叠体,并作为电解电容器显示极好的高频响应,以及更低的内部阻抗。电解电容器的阳极体包含:由矩形阳极两金属箔构成的层叠体,其中每一片两金属箔都具有其金属氧化物薄膜的介质层;该金属氧化物薄膜在其每一阳极两金属箔的粗糙表面上被阳极化;和固定框,用于沿层叠方向夹住层叠体,以固定层叠体,并与层叠的金属箔的阳极体层电气连接。这样的阳极体可以用于将液体电解液填入的容器中成为一个电容器。另外,本发明的电解电容器包含:多片阳极两金属箔的层叠体,每一片金属箔具有由其金属氧化物薄膜形成的介质层,在每一个阳极两金属箔的粗糙表面上阳极体化,还有形成在介质层上的阴极导电聚合物层;固定框,用于沿层叠方向夹住层叠体,以固定层叠体;阳极体导电体,连接到阳极两金属箔的金属部分;阴极导电体,连接到阴极导电聚合物层。



ISSN 1008-4274



US006400554B1

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

(10) **Patent No.:** **US 6,400,554 B1**  
(45) **Date of Patent:** **Jun. 4, 2002**

(54) **ELECTROLYTIC CAPACITOR, ITS ANODE BODY, AND METHOD OF PRODUCING THE SAME**

5,812,366 A \* 9/1998 Kuriyama ..... 361/523  
5,914,852 A \* 6/1999 Hatanaka et al. .... 361/523  
5,930,109 A \* 7/1999 Fishler ..... 361/508

(75) **Inventors:** **Seigo Shiraishi, Hirakata; Emiko Igaki, Amagasaki; Masakazu Tanahashi, Osaka, all of (JP)**

**FOREIGN PATENT DOCUMENTS**

JP 61-30020 2/1996

\* cited by examiner

(73) **Assignee:** **Matsushita Electric Industrial Co., Ltd., Osaka (JP)**

*Primary Examiner*—Dean A. Reichard  
*Assistant Examiner*—Nguyen Ha

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(74) *Attorney, Agent, or Firm*—Wenderoth, Lind & Ponack, L.L.P.

(21) **Appl. No.:** **09/335,741**

(57) **ABSTRACT**

(22) **Filed:** **Jun. 18, 1999**

The present invention provides an electrolytic capacitor and its anode body using a laminate of plurality of sheets of valve metal foil, exhibiting excellent high-frequency response and lower inner impedance as a electrolytic capacitor. The anode body for a electrolytic capacitor includes; a laminate of plurality of rectangular anode valve metal foil each which has dielectric layers of its metal oxide film anodized on roughened surfaces of each anode valve metal foil; and a fixing frame to clamp the laminate in the laminating direction to fix the laminate and connect electrically with anode layers of the laminated foil. Such an anode body may be used to be filled in the liquid electrolyte in the container to make a capacitor. Further, an electrolytic capacitor of the present invention includes: a laminate of plurality of anode valve metal foil each which has dielectric layers of its metal oxide film anodized on roughened surfaces of each anode valve metal foil and a cathode conductive polymer layer formed on the dielectric layer; a fixing frame to clamp the laminate in the laminating direction to fix the laminate; an anode conductor which is connected to a metal portion of the anode valve metal foil; and a cathode conductor which is connected to the cathode conductive polymer layers.

(30) **Foreign Application Priority Data**

Jun. 19, 1998 (JP) ..... 10-173056  
Mar. 26, 1999 (JP) ..... 11-083703

(51) **Int. Cl.<sup>7</sup>** ..... **H01G 9/04**

(52) **U.S. Cl.** ..... **361/508; 361/509; 361/523; 361/529; 361/502; 29/25.03**

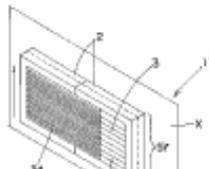
(58) **Field of Search** ..... 361/523, 508, 361/509, 525, 323, 433, 502, 503, 519, 528, 529; 29/570, 25.03

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,687,565 A \* 8/1987 Hirakata et al. .... 204/258  
4,805,074 A \* 2/1989 Harakawa et al. .... 361/525  
4,889,536 A \* 12/1989 Naitoh et al. .... 29/570.1  
5,062,025 A \* 10/1991 Verhoeven et al. .... 361/509  
5,099,991 A \* 3/1992 Kitagawa et al. .... 206/328  
5,377,073 A \* 12/1994 Fukami et al. .... 361/540  
5,587,872 A \* 12/1996 Lian et al. .... 361/525  
5,707,407 A 1/1998 Ohi et al. .... 29/25.03

**32 Claims, 19 Drawing Sheets**



# 五、利用同族专利信息

(19) 日本国特許庁 (J P)      (12) 公開特許公報 (A)      (11) 特許出願公開番号  
特開2000-348983  
(P2000-348983A)  
(43) 公開日 平成12年12月15日 (2000. 12. 15)

(51) Int.Cl. <sup>1</sup>	識別記号	F I	テ-コ-ド*(参考)	
H 0 1 G	9/04	H 0 1 G	9/05	H
	9/028		9/02	3 3 1 E
	9/06		9/06	Z
	9/00		9/24	C

審査請求 未請求 請求項の数34 O L (全 19 頁)

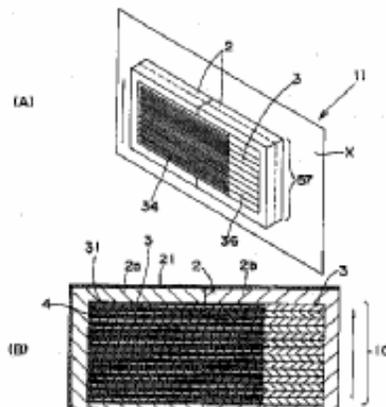
(21) 出願番号	特願平11-173890	(71) 出願人	000005821 松下電器産業株式会社 大阪府門真市大字門真1006番地
(22) 出願日	平成11年6月21日 (1999. 6. 21)	(72) 発明者	白石 誠吾 大阪府門真市大字門真1006番地 松下電器産業株式会社内
(31) 優先権主張番号	特願平10-173056	(72) 発明者	井組 恵美子 大阪府門真市大字門真1006番地 松下電器産業株式会社内
(32) 優先日	平成10年6月19日 (1998. 6. 19)	(72) 発明者	細橋 正和 大阪府門真市大字門真1006番地 松下電器産業株式会社内
(33) 優先権主張国	日本 (J P)	(74) 代理人	100062144 弁理士 青山 稔 (外 2 名)
(31) 優先権主張番号	特願平11-83703		
(32) 優先日	平成11年3月26日 (1999. 3. 26)		
(33) 優先権主張国	日本 (J P)		

(54) 【発明の名称】 電解コンデンサ、その陽極体及びその製造方法

(57) 【要約】

【課題】 弁作用金属を用いた電解コンデンサの陽極体について、弁金属箔を積層した陽極体の内部まで十分な誘電体酸化皮膜の形成が可能として、低いインピーダンスで優れた高周波特性を有する電解コンデンサのための陽極体と、このような陽極体を基本構造とする電解コンデンサを提供する。

【解決手段】 電解コンデンサの陽極体は、粗面化された表面に酸化皮膜の誘電体層を有する複数の矩形的陽極弁金属箔を積層して成る積層体と、積層体を積層方向に挟持して固定しかつ陽極弁金属箔の金属部分と電気的に接続された弁作用金属の固定枠体と、から成る。このような陽極体は、粗面化した帯状の弁金属箔の表面に酸化



## 五、利用同族专利信息

	PR1	PR2	PR3	PR4
PN1	√			
PN2	√			
PN3	√	√		
PN4		√	√	
PN5				√

# 五、利用同族专利信息

同族专利检索

<http://ep.espacenet.com/>

The screenshot shows the EPO website interface. On the left, there are four search categories: Quick Search, Advanced Search, Number Search, and Classification Search. The main content area displays a search result for 'espacenet - NEWS', including a search bar with the input 'US5402857' and a 'Search' button. Below the search bar, there is an 'Example: Siemens EP 2007' section explaining the search criteria. Further down, there is a section titled 'Improvements to espacenet' and a list of 'Major new items are:'.

**European Patent Office**

Home | Contact English Deutsch Français Help index ?

**Quick Search**  
Search with keywords, or for persons or organisations

**Advanced Search**  
Search using any of the available fields

**Number Search**  
Search using publication, application, priority or NPL reference number

**Classification Search**  
Browse or search the Classification System of the European Patent Office

**espacenet - NEWS,**  
espacenetユーザーの皆様、  
espacenet assistant 日本語版 (36本の短編eラーニングモジュールを通じてespacenetの使い方が学べます)

**SmartSearch [BETA]:**  
US5402857 **Search**

**Example: Siemens EP 2007**  
Explanation: Smart Search will look for Siemens as being the inventor/applicant (first letter in uppercase), for all EP, i.e., European patent applications (2 letters in uppercase for the country code) and 2007 as publication date (4 digits for the year of publication).

**Improvements to espacenet**  
A number of important new features and functions have been added to espacenet in an upgrade in January. These included improved navigation within help files, a default search options setting to the Worldwide database and display of the A0 document, instead of the corresponding PCT document, for Euro-PCT publications.

**Major new items are:**

- full-text search in EP and WO in all three official languages
- highlighting of searched terms even in the full text

**News**  
Sched  
Please  
espace  
mainte  
and 5:  
Newsf  
Interrup  
Dutch  
data TI  
changi  
exchar  
result i  
the del  
Image  
10 onw  
weeks  
and loa  
that the  
by the  
Legal S  
affecte  
Latest  
DE11

# 五、利用同族专利信息

例：检索美国专利5402857的同族专利有哪些？

## Definition of the "extended" (INPADOC) patent family

### FAMILY P1

Document D1	Priority P1		
Document D2	Priority P1	Priority P2	
Document D3	Priority P1	Priority P2	
Document D4		Priority P2	Priority P3
Document D5			Priority P3

## Definition of the esp@cenet equivalent

Document D1	Priority P1			FAMILY P1
Document D2	Priority P1	Priority P2		FAMILY P1-P2
Document D3	Priority P1	Priority P2		FAMILY P1-P2
Document D4		Priority P2	Priority P3	FAMILY P2-P3
Document D5			Priority P3	FAMILY P3

# 五、利用同族专利信息

例：检索美国专利5402857的同族专利有哪些？

The screenshot shows the EPO website interface. The top navigation bar includes the EPO logo, the text "European Patent Office", and the "esp" logo. Below this is a language selection menu with "English", "Deutsch", and "Français". A "Home | Contact" link is on the left, and a "Help index" link with a question mark icon is on the right. A sidebar on the left contains search options: "Quick Search", "Advanced Search", "Number Search", "Last result list", "My patents list" (with a "0" in a green box), and "Classification Search". At the bottom of the sidebar is a "Get assistance" link with a question mark icon. The main content area has a search bar with "Compact | Print | Export" options. Below the search bar, it says "RESULT LIST" and "1 result found in the Worldwide database for: num = US5402857 using SmartSearch<sup>®</sup>". A link for "Get assistance" is provided. The search result is for "Oil and gas well cuttings disposal system" by inventor DIETZEN GARY H [US] and applicant DIETZEN, GARY H. The publication is US5402857 (A) from 1995-04-04. The priority date is 1994-02-17. The IPC classification is B09B5/00; B63B35/44; E21B21. At the bottom, it states "Data supplied from the **espacenet** database — Worldwide". A "Quick Help" section at the bottom left lists common questions about search results.

European Patent Office

esp

Home | Contact English Deutsch Français Help index ?

Quick Search

Advanced Search

Number Search

Last result list

My patents list 0

Classification Search

Get assistance ?

Quick Help

- » Why is the list limited to 500 results?
- » Why is the number of results sometimes approximate?
- » Why could it be that a certain patent document is not...

Compact | Print | Export

**RESULT LIST**

1 result found in the Worldwide database for:  
**num = US5402857** using SmartSearch<sup>®</sup>

The result is not what you expected? Get **assistance** ?

**1 Oil and gas well cuttings disposal system**

**Inventor:** DIETZEN GARY H [US] **Applicant:** DIETZEN, GARY H

**EC:** B63B27/20; B63B35/44; (+2) **IPC:** B09B5/00; B63B35/44; E21B21

**Publication** **US5402857 (A)** - 1995-04-04 **Priority Date:** 1994-02-17

**info:**

Data supplied from the **espacenet** database — Worldwide

# 五、利用同族专利信息

例：检索美国专利5402857的同族专利有哪些？

The screenshot displays the Espacenet interface for the patent "Oil and gas well cuttings disposal system". The page includes a navigation menu on the left, a search bar at the top, and a main content area with tabs for Bibliographic data, Description, Claims, Mosaics, Original document, and INPADOC legal status. The Bibliographic data tab is active, showing publication details, classification, and a list of related patents under "Also published as:" and "Cited documents:". The bottom of the page shows the start of the abstract for US 5402857 (A).

European Patent Office

English Deutsch Français

Help index ?

In my patents list | Print [Return to result list](#)

## Oil and gas well cuttings disposal system

**Bibliographic data** | Description | Claims | Mosaics | Original document | INPADOC legal status

**Publication number:** [US5402857](#) (A)  
**Publication date:** 1995-04-04  
**Inventor(s):** DIETZEN GARY H [US] +  
**Applicant(s):** DIETZEN, GARY H  
**Classification:**  
- **international:** [B09B5/00](#); [B63B35/44](#); [E21B21/06](#); [E21B41/00](#); [B63B25/02](#); [B09B5/00](#); [B63B35/44](#); [E21B21/00](#); [E21B41/00](#); [B63B25/00](#); (IPC1-7): [B09B5/00](#); [F21B21/06](#)  
- **European:** [B63B27/20](#); [B63B35/44](#); [E21B21/06N2C](#); [E21B41/00M](#)  
**Application number:** [US19940197727](#) 19940217  
**Priority number(s):** [US19940197727](#) 19940217

**Also published as:**

- [US5564509](#) (A)
- [NO950585](#) (A)
- [NL9500301](#) (A)
- [NL194733](#) (C)
- [GB2286615](#) (A)
- [CA2142536](#) (A1)
- [CA2142536](#) (C)

[<< less](#)

**Cited documents:**

- [US1125413](#) (A)
- [US2803501](#) (A)
- [US3400819](#) (A)
- [US3433312](#) (A)
- [US3993359](#) (A)

[View all](#)

[View INPADOC patent family](#)  
[View list of citing documents](#)

[Report a data error here](#)

Abstract of [US 5402857](#) (A)

# 五、利用同族专利信息

例：检索美国专利5402857的同族专利有哪些？

European Patent Office

English Deutsch Français Help index ?

Return to US5402857 (A) | 1 next

Compact | Print | Export

### Family list

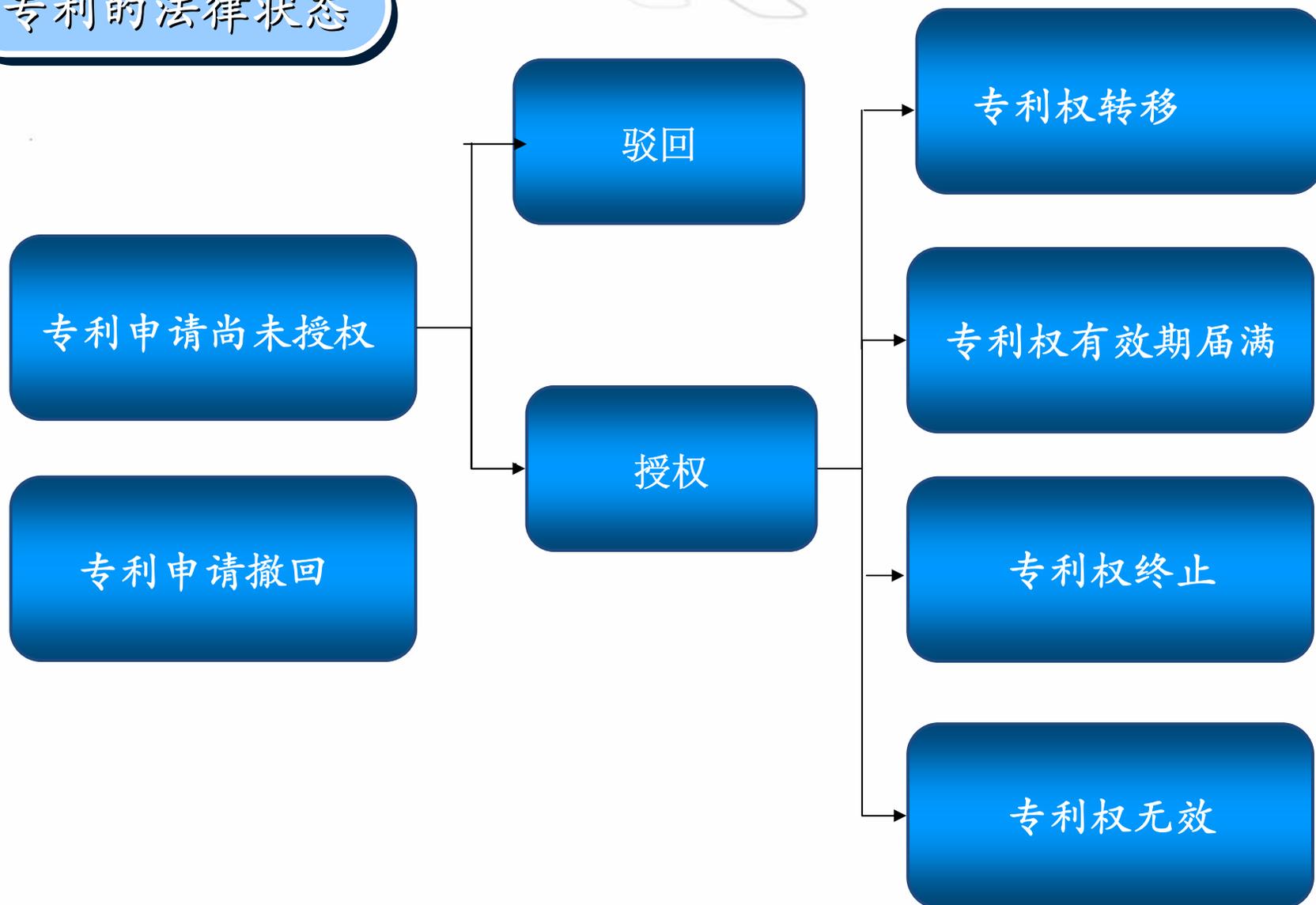
Approximately 50 application(s) for: US5402857 (A)

Sorting criteria: Priority Date Inventor Applicant Ecla

1	<b>Vacuum Tank for use in handling oil and gas well cuttings</b>	in my patents list <input type="checkbox"/>
Inventor: DIETZEN GARY H [US]		
Applicant: MI LLC [US]		
EC: B63B27/20; B63B35/44; (+2)		
IPC: B63B35/44; E21B21/06; E21B41/00; (+6)		
Priority Date: 1998-10-29		
Publication AT299985 (T) - 2005-08-15		
info:		
2	<b>Method and apparatus for handling and disposal of oil and gas well drill cuttings</b>	in my patents list <input type="checkbox"/>
Inventor: DIETZEN GARY [US]		
Applicant: MI LLC [US]		
EC: E21B21/06N2C		
IPC: E21B21/06; E21B21/00; (IPC1-7): E21B21/06		
Priority Date: 1999-05-19		
Publication AT301766 (T) - 2005-08-15		
info:		
3	<b>Oil and gas well cuttings disposal system with continuous vacuum operation for sequentially filling disposal tanks</b>	in my patents list <input type="checkbox"/>
Inventor: DIETZEN GARY H		
Applicant: MI LLC		
EC: B63B27/20; B63B35/44; (+2)		
IPC: B63B35/44; E21B21/06; E21B41/00; (+7)		
Priority Date: 1996-10-15		
Publication AU726230 (B2) - 2000-11-02		
info:		
4	<b>Oil and gas well cuttings disposal system with continuous vacuum operation for sequentially filling disposal tanks</b>	in my patents list <input type="checkbox"/>
Inventor: DIETZEN GARY H		
Applicant: MI LLC		

# 六、利用法律状态信息

## 专利的法律状态



# 六、利用法律状态信息

## 法律状态检索-1.中国

<http://search.sipo.gov.cn/sipo/zljs/searchflzt.jsp>

前 中 后

专利检索

申请(专利)号

搜索 高级搜索

其他检索

集成电路布图设计检索

国外及港澳台专利检索

专题数据库检索

- 法律状态查询
- 收费信息查询
- 代理机构查询
- 专利证书发文信息查询
- 通知书发文信息查询
- 退信信息查询
- 事务性公告查询

法律状态检索		
申请(专利)号	<input type="text"/>	例: 91231422
法律状态公告日	<input type="text"/>	例: 2003.1.22
法律状态	<input type="text"/>	例: 授权

确定

清除

### 版权声明

本检索系统提供1985年至今公告的中国专利法律状态信息。该法律状态信息是国家知识产权局根据专利法和实施细则的规定在出版的发明专利公报、实用新型专利公报和外观设计专利公报上公开和公告的法律状态信息,主要有:实质审查请求的生效、专利权的无效宣告,专利权的终止,权利的恢复,专利申请权、专利权的转移,专利实施许可合同的备案,专利权的质押、保全及其解除,著录事项变更、通知事项等。

由于专利申请(专利)的法律状态发生变化时,专利公报的公布及检索系统登录信息必然存在滞后性的原因,本检索系统的法律状态信息仅供参考,即时准确的法律状态信息应以国家知识产权局出具的专利登记簿记载的内容为准,须到国家知识产权局办理专利登记簿副本。直接使用本检索系统的法律状态信息引发的各类问题由使用者承担责任。特此声明。

### 使用说明

中国专利法律状态检索可以从申请(专利)号、法律状态公告日进行检索,法律状态检索所提供的法律状态信息仅供参考。

检索规则:

#### 1. 申请(专利)号

(1) 已知申请(专利)号为91231422.2,输入“91231422.2”可以查询该专利的法律状态;

(2) 已知申请(专利)号前3位为001,输入“001%”可以查询相关专利的法律状态。

#### 2. 法律状态公告日

# 六、利用法律状态信息

例：查询中国专利申请200420045210.4的法律状态

法律状态检索 您现在的位置： 首页>法律状态检索

申请(专利)号	200420045210.4	授权公告号	
法律状态公告日	2010.03.17	法律状态类型	专利权的无效、部分无效宣告(专利权部分无效)
专利权的无效、部分无效宣告(专利权部分无效) 无效宣告决定号:10939 无效宣告决定日:2007.11.30			

申请(专利)号	200420045210.4	授权公告号	2703083
法律状态公告日	2005.06.01	法律状态类型	授权
授权			

[首页](#)

[上一页](#)

[下一页](#)

[尾页](#)

跳转到

第1页 共(1)页 共2条记录

# 六、利用法律状态信息

## 法律状态检索-1.中国

• <http://211.157.104.77:8080/reexam/searchdoc/search.jsp>

**口头审理公告查询**

专利号 :

专利名称 :

**复审无效决定选编查询**

专利号 :

专利名称 :

**集成电路布图设计案件查询**

当前位置: [首页](#) -> [服务专区](#) -> [审查决定查询](#)

发明 新型 外观  排序字段:

决定号	<input type="text"/>	决定日	<input type="text"/>
请求人	<input type="text"/>	申请(专利)号	<input type="text"/>
发明名称	<input type="text"/>	外观设计名称	<input type="text"/>
国际分类号	<input type="text"/>	外观设计分类号	<input type="text"/>
主审员	<input type="text"/>	申请日	<input type="text"/>
合议组组长	<input type="text"/>	专利权人	<input type="text"/>
授权公告日	<input type="text"/>	审定公告日	<input type="text"/>
法律依据	<input type="text"/>	决定要点	<input type="text"/>

Internet 100%

# 六、利用法律状态信息

## 例：查询中国专利申请200420045210.4的法律状态

当前位置：[首页](#) -> [服务专区](#) -> [审查决定查询](#)

发明创造名称	有彩色印刷薄片贴面的木板盒	外观设计名称	
决定号	WX12310	决定日	2008-09-28 00:00:00.0
委内编号		优先权日	
申请(专利)号	200420015152.0	申请日	2004-01-20 00:00:00.0
复审请求人		无效请求人	泸州老窖股份有限公司
授权公告日	2005-02-16 00:00:00.0	审定公告日	
专利权人	欧阳宣	主审员	刘蕾
合议组组长	武树辰	参审员	张立泉
国际分类号		外观设计分类号	
法律依据	专利法第22条第2;3款, 专利法实施细则第2条第2款		
决定要点	只要实用新型专利不是针对材料本身提出的技术方案, 而是将现有技术已知的材料应用于有形状、构造的产品上, 就属于实用新型专利的保护客体。权利要求所要保护的技术方案与申请日前公开的现有技术相比, 不具有实质性特点和进步, 则不具有创造性。		

因此, 请求人所主张的本专利相对于附件1不具有创造性的理由不能成立。  
根据上述的事实和理由, 本案合议组依法作出以下决定。

### 三. 决定

宣告200420045210.4号实用新型专利权权利要求1、2、3、5无效, 在权利要求4的基础上维持该专利权继续有效。

当事人对本决定不服的, 可以根据专利法第46条第2款的规定, 自收到本决定之日起三个月内向北京市第一中级人民法院起诉。根据该款的规定, 一方当事人起诉后, 另一方当事人应当作为第三人参加诉讼。

# 六、利用法律状态信息

## 法律状态检索-2.美国

<http://portal.uspto.gov/external/portal/pair>

Portal Home | Patents | Trademarks | Other

### Patent eBusiness

- Electronic Filing
- Patent Application Information (PAIR)
- Patent Ownership
- Fees
- Supplemental Resources & Support

### Patent Information

- Patent Guidance and General Info
- Codes, Rules & Manuals
- Employee & Office Directories
- Resources & Public Notices

### Patent Searches

- Patent Official Gazette
- Search Patents & Applications
- Search Biological Sequences
- Copies, Products & Services

### Other

- Copyrights
- Trademarks
- Policy & Law
- Reports

### Patent Application Information Retrieval

[Order Certified Application As Filed](#) [Order Certified File Wrapper](#) [View Order List](#)

09/599,965

HERMETIC COMPRESSOR

Select New Case | Application Data | Transaction History | Patent Term Adjustments | Foreign Priority | Fees | Published Documents | Address & Attorney/Agent

### Select New Case

\* indicates a required field

You may search for a specific application or conduct a search related to a customer number.

### Search for Application:

Choose type of number:

- Application Number (EXAMPLE: 99999999 or 99/999999) [i](#)
- Control Number [i](#)
- Patent Number [i](#)
- PCT Number (EXAMPLE: PCT/CCYY/99999 or PCT/CCYYYY/999999) [i](#)
- Publication Number [i](#)

\* Enter number:

SEARCH

If you need help:

# 六、利用法律状态信息

## 例：查询美国专利6450297的法律状态

- [Electronic Filing](#)
- [Patent Application Information \(PAIR\)](#)
- [Patent Ownership](#)
- [Fees](#)
- [Supplemental Resources & Support](#)

**Patent Information**

- [Patent Guidance and General Info](#)
- [Codes, Rules & Manuals](#)
- [Employee & Office Directories](#)
- [Resources & Public Notices](#)

**Patent Searches**

- [Patent Official Gazette](#)
- [Search Patents & Applications](#)
- [Search Biological Sequences](#)
- [Copies, Products & Services](#)

**Other**

- [Copyrights](#)
- [Trademarks](#)
- [Policy & Law](#)
- [Reports](#)

[Order Certified Application As Filed](#) [Order Certified File Wrapper](#) [View Order List](#)

**09/599,965 HERMETIC COMPRESSOR**

Select New Case	Application Data	Transaction History	Patent Term Adjustments	Foreign Priority	Fees	Published Documents	Address & Attorney/Agent
-----------------	------------------	---------------------	-------------------------	------------------	------	---------------------	--------------------------

**Bibliographic Data**

Application Number:	09/599,965	Customer Number:	-
Filing or 371 (c) Date:	06-23-2000	Status:	Patented Case
Application Type:	Utility	Status Date:	08-29-2002
Examiner Name:	KIM, CHONG HWA	Location:	FILE REPOSITORY (FRANCONIA)
Group Art Unit:	3682	Location Date:	09-13-2002
Confirmation Number:	9838	Earliest Publication No:	-
Attorney Docket Number:	032959-005	Earliest Publication Date:	-
Class / Subclass:	184/006.160	Patent Number:	6,450,297
First Named Inventor:	Chul-Sung Kim , Kwangju City, (KR)	Issue Date of Patent:	09-17-2002

Title of Invention: HERMETIC COMPRESSOR

*If you need help:*

- Call the Patent Electronic Business Center at (866) 217-9197 (toll free) or e-mail [EBC@uspto.gov](mailto:EBC@uspto.gov) for specific questions about Patent Application Information Retrieval (PAIR).
- Send general questions about USPTO programs to the [USPTO Contact Center \(UCC\)](#).
- If you experience technical difficulties or problems with this application, please report them via e-mail to [Electronic Business Support](#) or call 1 800-786-9199.

# 六、利用法律状态信息

## 例：查询美国专利6450297的法律状态

Patent Application Information (PAIR)

- Patent Ownership
- Fees
- Supplemental Resources & Support

Patent Information

Patent Guidance and General Info

- Codes, Rules & Manuals
- Employee & Office Directories
- Resources & Public Notices

Patent Searches

Patent Official Gazette

- Search Patents & Applications
- Search Biological Sequences
- Copies, Products & Services

Other

- Copyrights
- Trademarks
- Policy & Law Reports

09/599,965 HERMETIC COMPRESSOR

Select New Case Application Data Transaction History Patent Term Adjustments Foreign Priority Fees Published Documents Address & Attorney/Agent

### Transaction History

Date	Transaction Description
09-17-2002	Recordation of Patent Grant Mailed
08-29-2002	Issue Notification Mailed
09-17-2002	Patent Issue Date Used in PTA Calculation
08-19-2002	Receipt into Pubs
08-14-2002	Application Is Considered Ready for Issue
06-07-2002	Issue Fee Payment Verified
06-07-2002	Workflow - Drawings Finished
06-07-2002	Workflow - Drawings Matched with File at Contractor
08-13-2002	Receipt into Pubs
06-27-2002	Workflow - File Sent to Contractor
06-27-2002	Receipt into Pubs
06-26-2002	Dispatch to Publications
06-07-2002	Workflow - Drawings Received at Contractor
06-07-2002	Workflow - Drawings Sent to Contractor
06-07-2002	Workflow -Received 85b - Unmatched
06-07-2002	Issue Fee Payment Received
03-11-2002	Dispatch to Publications
03-08-2002	Mail Notice of Allowance
03-08-2002	Mail Formal Drawings Required
03-08-2002	Formal Drawings Required
03-08-2002	Notice of Allowance Data Verification Completed
03-08-2002	Case Docketed to Examiner in GAU
03-07-2002	Incoming Letter Pertaining to the Drawings

# 六、利用法律状态信息

## 例：查询美国专利6450297的法律状态

Return To:

USPTO  
Home  
Page

Finance  
Online  
Shopping  
Page



United States  
Patent and  
Trademark Office

### Patent Maintenance Fees

Please enter both a patent number and its corresponding application number to do the following:

- Click on 'Retrieve Fees to Pay' to pay a maintenance fee.
- Click on 'Get Bibliographic Data' to obtain patent bibliographic data.
- Click on 'View Payment Windows' to determine when maintenance fees are due.
- Select the applicable year (4, 8 or 12) from the drop-down list box next to 'Payment Window' and click 'View Statement' to print a statement showing receipt of a maintenance fee payment.

Patent Number (exclude special characters; e.g. commas):

Application Number (must be 8 numeric digits - see NOTE below):

for Payment Window:  ▼

[The Privacy Act of 1974 - as it relates to Maintenance Fees](#)

[The Paperwork Reduction Act of 1995 - as it relates to Maintenance Fees](#)

#### Terms of Use:

The USPTO databases are intended for use by the general public. Due to limitations of equipment and bandwidth, they are not intended to be a source for bulk downloads of USPTO data. Individuals, companies, IP addresses, or blocks of IP addresses who, in effect, deny service to the general public by generating unusually high numbers (10,000 or more, roughly equivalent to viewing 1,000 patents) of daily

# 六、利用法律状态信息

例：查询美国专利6450297的法律状态

Return To:

USPTO  
Home  
Page

Finance  
Online  
Shopping  
Page



United States  
Patent and  
Trademark Office

## Maintenance Fees Window Dates

05/08/2010 10:07 PM EDT

Patent Number: [6450297](#)

Application Number: [09599965](#)

	4th Year	8th Year	12th Year
Open Date	<a href="#">09/17/2005</a>	<a href="#">09/17/2009</a>	<a href="#">09/17/2013</a>
Surcharge Date	<a href="#">03/18/2006</a>	<a href="#">03/18/2010</a>	<a href="#">03/18/2014</a>
Close Date	<a href="#">09/18/2006</a>	<a href="#">09/17/2010</a>	<a href="#">09/17/2014</a>

[Need Help?](#) | [USPTO Home Page](#) | [Finance Online Shopping Page](#) | [Alerts Page](#)

# 六、利用法律状态信息

## 例：查询美国专利6450297的法律状态

Return To:

USPTO  
Home  
Page

Finance  
Online  
Shopping  
Page



United States  
Patent and  
Trademark Office

### Maintenance Fee Statement

05/08/2010 09:55 PM EDT

Patent Number: 6450297

Customer Number: 197

COMPUTER PATENT ANNUITIES  
225 REINEKERS LANE  
SUITE 400  
ALEXANDRIA VA 22314

According to the records of the U.S. Patent and Trademark Office (USPTO), the maintenance fee and any necessary surcharge have been timely paid for the patent listed below. The "PYMT DATE" column indicates the payment date (i.e., the date the payment was filed).

The payment shown below is subject to actual collection. If the payment is refused or charged back by a financial institution, the payment will be void and the maintenance fee and any necessary surcharge unpaid.

Direct any questions about this statement to: Mail Stop M Correspondence, Director of the USPTO, P.O.Box 1450, Alexandria, VA 22313-1450.

PATENT NUMBER	FEE AMT	SUR-CHARGE	PYMT DATE	U. S. APPLICATION NUMBER	PATENT ISSUE DATE	APPL. FILING DATE	PAYMENT YEAR	SMALL ENTITY?	ATTY DKT NUMBER
6,450,297	\$900.00	\$0.00	02/17/06	09/599,965	09/17/02	06/23/00	04	NO	032959-005

Click [here](#) to obtain your Maintenance Fee Statement as a PDF

# 六、利用法律状态信息

## 例：查询美国专利6450297的法律状态

Return To:

USPTO  
Home  
Page

Finance  
Online  
Shopping  
Page



United States  
Patent and  
Trademark Office

Patent Maintenance Fees		05/08/2010 10:08 PM EDT	
Patent Number:	6450297	Application Number:	09599965
Issue Date:	09/17/2002	Filing Date:	06/23/2000
Window Opens:	09/17/2009	Surcharge Date:	03/18/2010
Window Closes:	09/17/2010	Payment Year:	08
Entity Status:	LARGE		
Customer Number:	197		
Street Address:	COMPUTER PATENT ANNUITIES		
City:	ALEXANDRIA		
State:	VA		
Zip Code:	22314		
Phone Number:	(703) 739-2234		
Fee Code:	1552	Fee Code Amount:	\$2,480.00
Surcharge Fee Code:	1555	Surcharge Fee Code Amount:	\$130.00
<b>Total Fees Due:</b>			<b>\$2,610.00</b>

Pay Maintenance Fees

Click here to view and print your official maintenance fee statement. We recommend that you select this option to confirm that your transaction processed successfully and to provide you with an official receipt showing proof of payment. We will no longer mail statements to the 'fee address' of record to indicate receipt of payment.

# 六、利用法律状态信息

## 法律状态检索-2.美国

<http://assignments.uspto.gov/assignments/?db=pat>

Assignments on the Web > [Patent Query](#)

### Patent Assignment Query Menu

***NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.***

Enter the Data:

[Online Help](#)

Reel/Frame Number:

Patent Number:

Publication Number:

Assignor Name:

Assignor Index:

Assignee Name:

Assignee Index:

Assignor/Assignee Name:

Search

The database contains all recorded Patent Assignment information from August 1980 to May 8, 2010.

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350.  
Web Interface last modified: October 18, 2008 v.2.0.2

# 六、利用法律状态信息

## 例：查询美国专利6450297的法律状态

Assignments on the Web > [Patent Query](#)

### Patent Assignment Abstract of Title

***NOTE: Results display only for issued patents and published applications. For pending or abandoned applications please consult USPTO staff.***

#### Total Assignments: 1

Patent #: [6450297](#)

Issue Dt: 09/17/2002

Application #: 09599965

Filing Dt: 06/23/2000

Inventor: Chul-Sung Kim

Title: HERMETIC COMPRESSOR

#### Assignment: 1

Reel/Frame: [011029/0456](#)

Recorded: 08/24/2000

Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: [KIM, CHUL-SUNG](#)

Exec Dt: 06/22/2000

Assignee: [SUMSUNG KWANGJU ELECTRONICS CO., LTD.](#)

271, OSEON-DONG, KWANGSAN-GU  
KWANGJU-CITY, KOREA, REPUBLIC OF

Correspondent: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

CHARLES F. WIELAND III  
P.O. BOX 1404  
ALEXANDRIA, VA 22313-1404

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350.  
Web interface last modified: October 13, 2008 v.2.0.2

Search Results as of: 05/08/2010 10:12 PM

[HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

# 六、利用法律状态信息

## 法律状态检索-3. 欧洲

<https://register.epoline.org/espacenet/advancedSearch?lng=en>

### Quick Help

- » How many search terms can I enter per field?
- » How can I find out if an opposition was filed in a specific technical field?
- » How do I enter an application/publication/priority number?
- » How do I enter the name of an organisation or person?
- » Can I use truncation?
- » Can I enter a date range for my search?
- » How do I enter an International Patent Classification (IPC) symbol?
- » Can I use operators?
- » What does "Open recent" mean?



Quick Search



Smart Search



Help

Search

AND

AND

Search

Reset

### What is Register Plus?

Register Plus is the direct access to all the **publicly available information on European patent applications** as they pass through the grant procedure.

It provides **procedural** and **legal data** on EP, Euro-PCT and PCT-filings.

Register Plus is **free of charge** and **available 24/7**.

### What can you use Register Plus for?

- to find out what **stage** in the procedure a **European patent application** has reached
- to see if a **European patent application** has been **granted**, or will be granted soon
- to check whether any **oppositions** to a European patent have been filed
- to read the **correspondence** between the EPO and the patent applicant/attorney

# 六、利用法律状态信息

## 例：查询欧洲专利EP0498689的法律状态

**About this file**

- Legal status
- Event history
- Citations
- Patent family
- All documents

**Quick Help**

- » What kind of information can be found in "Show history"?
- » What kind of information can be found under "Status"?
- » What do the dates in square brackets refer to?
- » What does N/P stand for?
- » Why has the link to the decision not been activated yet?
- » What does the letter in square brackets stand for in the "Documents cited" part?

Quick Search SmartSearch Search Results Download XML Data Print Open in esp@cenet® Help

Search Application No.

AND Application No.  Search

AND Publication No. EP0498689 Reset

SmartSearch: publication = EP0498689

Open recent  Open

**EP0498689 - Mixed lanthanum terbium and cerium phosphate, process for its preparation** Show history

[ Right-click to bookmark this link ]

<b>Status</b>	Patent maintained as amended Database last updated on 06.05.2010
<b>Most recent event</b>	30.07.2004 Change - lapse in a contracting state published on 15.09.2004 [2004/38]
<b>Applicant(s)</b>	For all designated states RHODIA CHIMIE 25, quai Paul Doumer 92408 Courbevoie Cédex / FR [1998/16]

# 六、利用法律状态信息

## 例：查询欧洲专利EP0498689的法律状态

<b>Priority number, date</b>	FR19910001215 04.02.1991	
	[1992/33]	
<b>Filing language</b>	FR	
<b>Procedural language</b>	FR	
<b>Publication</b>	Type : A1 Application with search report	
	No. : EP0498689	
	Date : 12.08.1992	
	Language : FR	
	[1992/33]	
	Type : B1 Patent specification	
	No. : EP0498689	
	Date : 17.09.1997	
	Language : FR	
	[1997/38]	
	Type : B2 New European patent specification	
	No. : EP0498689	
	Date : 20.08.2003	
	Language : FR	
	[2003/34]	
<b>Classification</b>	International C09K11/81, C01B25/45	[1992/33]
<b>Designated contracting states</b>	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE	[1992/33]
<b>Title</b>	German Lanthan-Terbium-und-Cerphosphat-Gemisch, Verfahren zu seiner Herstellung	[1992/33]
	English Mixed lanthanum terbium and cerium phosphate,	[1992/33]

# 六、利用法律状态信息

## 例：查询欧洲专利EP0498689的法律状态

	08.10.1996	Fee for grant paid
	08.10.1996	Fee for printing paid
<b>Opposition(s)</b>	<b>Opponent(s)</b>	01 16.06.1998 Shin-Etsu Chemical Co., Ltd. No. 6-1, Ohte-machi 2-chome Chiyoda-ku, Tokyo / JP Opponent's representative Moodie, William John (GB) Herbert Smith Exchange House Primrose Street GB-London EC2A 2HS / GB
		[1998/33]
	22.07.1998	Invitation to proprietor to file observations on the notice of opposition
	23.11.1998	Reply of patent proprietor to notice(s) of opposition
	13.10.2000	Legal effect of interlocutory decision in opposition
	13.10.2000	Date of oral proceedings
	08.12.2000	Despatch of minutes of oral proceedings
	08.12.2000	Despatch of a communication from the opposition division (Time limit: M02)
	30.01.2001	Reply to a communication from the opposition division
	08.11.2002	Despatch of interlocutory decision in opposition
	14.03.2003	Despatch of communication that the patent will be maintained as amended
	11.06.2003	Fee for printing new specification paid
<b>Fees paid</b>	<b>Renewal fee</b>	
	21.01.2004	Renewal fee - patent class 02

# 六、利用法律状态信息

## 例：查询欧洲专利EP0498689的法律状态

Lapse	DK	17.09.1997
	GR	17.09.1997
	PT	17.12.1997
	SE	17.12.1997
	LU	24.01.1998
	ES	25.01.1998
	BE	31.01.1998
	CH	31.01.1998
	LI	31.01.1998
[2004/38]		
Documents cited:	Search	[A] <a href="#">EP0199200</a> ↗
		[AD] <a href="#">US3507804</a> ↗
		[A] <a href="#">GB2124243</a> ↗
		[AD] <a href="#">JP57023674</a> ↗
		[AD] <a href="#">JP62218477</a> ↗
		[AD] <a href="#">JP60090287</a> ↗
		[AD] PATENT ABSTRACTS OF JAPAN vol. 6, no. 94 (C-105)(972) 2 Juin 1982 & JP-A-57 023 674 ( NICHIA DENSHI KAGAKU K.K. ) 6 Février 1982
		[AD] PATENT ABSTRACTS OF JAPAN vol. 12, no. 82 (C-481)(2929) 15 Mars 1988 & JP-A-62 218 477 ( MITSUBISHI ELECTRIC CORP. ) 25 Septembre 1987
	[AD] PATENT ABSTRACTS OF JAPAN vol. 9, no. 233 (C-304)(1956) 19 Septembre 1985 & JP-A-60 090 287 ( MITSUBISHI DENKI K.K. ) 21 Mai 1985	
Opposition	<a href="#">GB1214257</a> ↗	
	<a href="#">JP1041673</a> ↗	

# 六、利用法律状态信息

## 例：查询欧洲专利EP0498689的法律状态

- About this file
- Legal status
- Event history
- Citations
- Patent family
- All documents

Click Help

What kind of information can be found in "Show history"?

What kind of information can be found under "Status"?

What do the dates in square brackets refer to?

What does N/P stand for?

Why has the link to the decision not been activated yet?

What does the letter in square brackets stand for in the "Documents cited" part?

What does "Download XML data" mean?

Is it possible to navigate in the result list?

Quick Search SmartSearch Search Results Download XML Data Print Open in esp@cenet®

Search

AND

AND

SmartSearch: opponent = Smith and opponent = John

Open recent

[EP0498689 - Mixed lanthanum terbium and cerium phosphate, process for its preparation](#) [Show history](#)

[ Right-click to bookmark this link ]

<b>Status</b>	Patent maintained as amended <i>Database last updated on 06.05.2010</i>
<b>Most recent event</b>	30.07.2004 Change - lapse in a contracting state published on 15.09.2004 [2004/38]
<b>Applicant(s)</b>	For all designated states RHODIA CHIMIE 25, quai Paul Doumer 92408 Courbevoie Cédex / FR [1998/16]
<b>Inventor(s)</b>	01 / Collin, Marie-Pierre 17, Rue d'Ormesson, Bât. F1 F-93800 Epinay/Seine / FR

# 六、利用法律状态信息

## 法律状态检索-4.日本

[http://www.ipdl.inpit.go.jp/homepg\\_e.ipdl](http://www.ipdl.inpit.go.jp/homepg_e.ipdl)

**IPDL** Industrial Property  
Digital Library

 National Center for  
Industrial Property  
Information and Training

[▶ INPIT Home Page](#) [▶ JPO Home Page](#) [To Japanese Page](#)

The Industrial Property Digital Library (IPDL) offers the public access to IP Gazettes of the JPO free of charge through the Internet.

Access Total : 4,289,065

### → Patent & Utility Model

[Patent & Utility Model Gazette DB](#)  
[Patent & Utility Model Concordance](#)  
[FI/F-term Search](#)  
[PAJ](#)  
[Patent Map Guidance](#)

### → Trademark

[Japanese Trademark Database](#)  
[Japanese Figure Trademarks](#)  
[Japanese Well-Known Trademark](#)  
[List of Goods and Services](#)

### → Design

[Design Gazette DB](#)

### → Database Contents

[Patent & Utility Model Gazette DB](#)  
[Patent & Utility Model Concordance](#)  
[FI/F-term Search](#)  
[PAJ](#)  
[Design Gazette DB](#)  
[Japanese Trademark Database](#)  
[Japanese Figure Trademarks](#)

### News

[News](#)

### Link

[IPDL Links](#)

### Questionnaire

[Questionnaire](#)

[Notice](#)

Please enable Cookie and JavaScript of the browser when you use the Industrial Property Digital Library.

✉ [helpdesk@ipdl.inpit.go.jp](mailto:helpdesk@ipdl.inpit.go.jp)

Copyright (C); 1999-2010 JPO and INPIT

# 六、利用法律状态信息

例：查询日本专利文献JP10-150075A的法律状态

## Patent & Utility Model Gazette DB

[MENU](#)

[NEWS](#)

[HELP](#)

### Kind code & Document Number

(If you would like to know the form below to your search criteria, please click on HELP.)

Kind code	<b>A:</b> (Published patent application, Japanese translation of PCT international application), <b>B:</b> (Examined patent application publication, ), <b>U:</b> (Published utility model application, Japanese translation of PCT international application(utility model)), <b>U1:</b> (Unexamined utility model specification), <b>Y:</b> (Examined utility model application publication)	<b>A1:</b> (Domestic re-publication of PCT international application)	<b>N1:</b> (Journal of technical disclosure)	<b>B:</b> (Patent), <b>C:</b> (Patent specification), <b>H:</b> (Corrected patent specification), <b>I:</b> (Corrected utility model specification), <b>U:</b> (Registered utility model), <b>Y:</b> (Examined utility model registration), <b>Z:</b> (Examined utility model specification)
Number (e. g.)	H12-123456 or 2000-123456	005-123456 or 2005-123456	098-12345	2500001

Kind code	Number	Kind code	Number	Kind code	Number	Kind code	Number
1. <input type="text" value="a"/>	<input type="text" value="h10-150075"/>	2. <input type="text"/>	<input type="text"/>	3. <input type="text"/>	<input type="text"/>	4. <input type="text"/>	<input type="text"/>
5. <input type="text"/>	<input type="text"/>	6. <input type="text"/>	<input type="text"/>	7. <input type="text"/>	<input type="text"/>	8. <input type="text"/>	<input type="text"/>
9. <input type="text"/>	<input type="text"/>	10. <input type="text"/>	<input type="text"/>	11. <input type="text"/>	<input type="text"/>	12. <input type="text"/>	<input type="text"/>

Display Type

# 六、利用法律状态信息

## 例：查询日本专利文献JP10-150075A的法律状态

DOCUMENT 1/1  
DOCUMENT NUMBER  
@: unavailable

**DETAIL** **JAPANESE** **LEGAL STATUS**

1. [JP, 10-150075, A \(1998\)](#)

### PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-150075

(43)Date of publication of application : 02.06.1998

(51)Int.Cl.

H01L 21/60

(21)Application number : 08-306137

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 18.11.1996

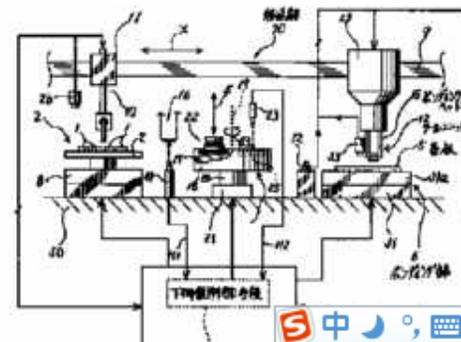
(72)Inventor : KOBAYASHI DAISUKE  
KOMATSU TETSUO

#### (54) METHOD AND DEVICE FOR FLIP-CHIP BONDING

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the occurrence of the connection defect of a bridge and the like by relatively moving a semiconductor chip based on the result of computation in a moving-amount computing process, transferring a conductive bonding material to a bump electrode, overlapping the semiconductor chip on the electrode pad of a substrate, and thereby facing the semiconductor chip to the substrate.

SOLUTION: The position in the direction Z, for which the virtual reference position of a semiconductor chip 1 held by a bonding head 16 is the original position, is detected by a laser displacement gage 24. Furthermore, the position in the direction Z, for which the virtual reference position of the liquid level of a conductive bonding material 17 is the original point, is detected by a laser displacement gage 23. Based on the results of these detections, the relative descending amount of the semiconductor chip 1 is



BACK NEXT

MENU SEARCH

HELP

# 六、利用法律状态信息

## 例：查询日本专利文献JP10-150075A的法律状态

Filing info	Patent H08-306137 (18.11.1996)
Publication info	H10-150075 (2.6.1998)
Detailed info of application	Kind of final decision(Deemed to be withdrawn) Date of final decision in examination stage(24.2.2004)
Renewal date of legal status	(28.5.2004)

Legal status information includes 8 items below. If any one of them has any data, a number or a date would be indicated at the relevant part.

1. Filing info( Application number, Filing date )
2. Publication info( Publication number, Publication date )
3. Detailed info of application
  - \* Kind of examiner's decision
  - \* Kind of final decision
  - \* Date of final decision in examination stage
4. Date of request for examination
5. Date of sending the examiner's decision of rejection( Date of sending the examiner's decision of rejection
6. Appeal/trial info
  - \* Appeal/trial number, Date of demand for appeal/trial
  - \* Result of final decision in appeal/trial stage, Date of final decision in appeal/trial stage
7. Registration info
  - \* Patent number, Registration Date
  - \* Date of extinction of right
8. Renewal date of legal status

For further details on Legal-Status, visit the following link. [PAJ help\(1-5\)](#)

谢谢!

专利文献部 文献传播处

贾丹明

Jiadanming@sipo.gov.cn

2010.05.13