



国家知识产权局

NATIONAL INTELLECTUAL PROPERTY ADMINISTRATION, PRC

郑重声明

- 一、经授课教师同意，本课件仅作为交流学习使用，禁止作为商业用途。
- 二、任何单位和个人未经授权不得转载。
- 三、在交流使用过程中，不得擅自篡改课件内容。
- 四、课件中涉及的观点不代表我局立场。
- 五、使用课件中的数据、图表时请注明来源，保证完整性，避免断章取义。
- 六、课件中涉及的政策法规或其它信息的有效性，请以相关主管部门(单位)公布为准。



欢迎关注微信公众号“专利文献众享”或扫描左侧二维码，获取最新公益讲座信息及专利文献服务。

公益讲座

www.cnipa.gov.cn/wxfw

专利信息检索资源与检索方法

国家知识产权局
专利检索咨询中心
2019年

欢迎关注微信公众号
“专利文献众享”或扫描
二维码，获取最新公益
讲座信息及专利文献
服务。



公益讲座

www.cnipa.gov.cn/wxfw

目录



引言



专利文献检索数据资源



专利信息检索类型与方法

第一部分 引言



- 什么是专利信息
- 为什么要重视专利信息
- 如何获取专利信息
- 影响专利检索的因素

引言——什么是专利信息？

• 由来

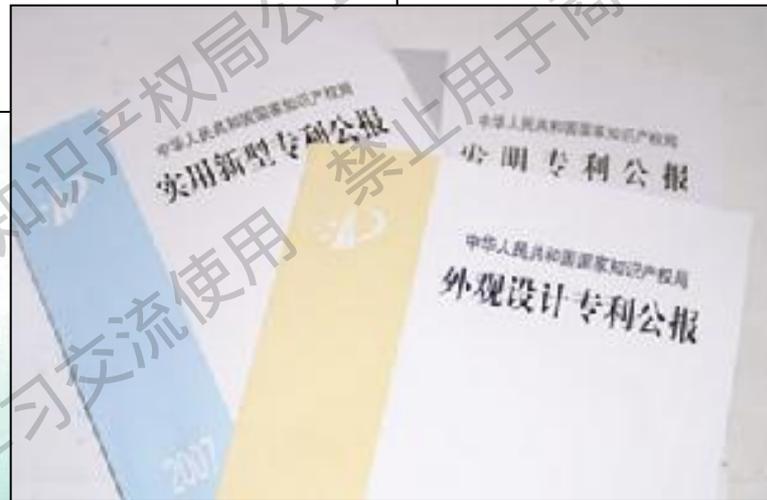
伴生于专利制度的产生
是专利活动的产物

• 内涵

表征专利保护客体的内涵信息
表征专利权利信息

• 组成

主要以文献信息形式存在
说明书、专利公报、文摘、索引、
分类资料等



引言——为什么要重视专利信息？

最新科技信息

信息量大



综合技术经济法律

结构化数据

战略管理

- 制定宏观战略
- 技术评估与预测
- 技术及产品引进与输出

技术研发

- 技术借鉴，提高研究起点
- 避免重复开发，浪费资源
- 课题立项或论文撰写

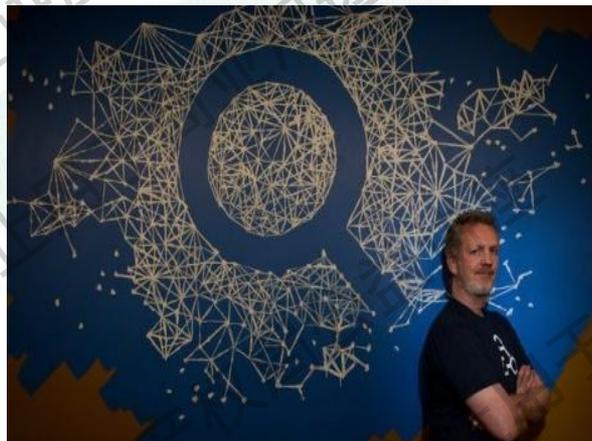
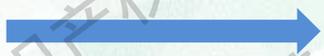
市场竞争

- 了解市场及竞争对手
- 申请专利，占领市场
- 风险规避，侵权预警

引言——如何获取专利信息？

有效利用专利信息的首要任务就是做好**专利检索**

专利检索：从浩瀚的专利信息中找到我想要的！



印刷信息为主体
手工检索为主要检索方法

因特网信息为主体
计算机检索为主要检索方法

引言——影响专利检索的因素



查全率和查准率



✓ 客观因素

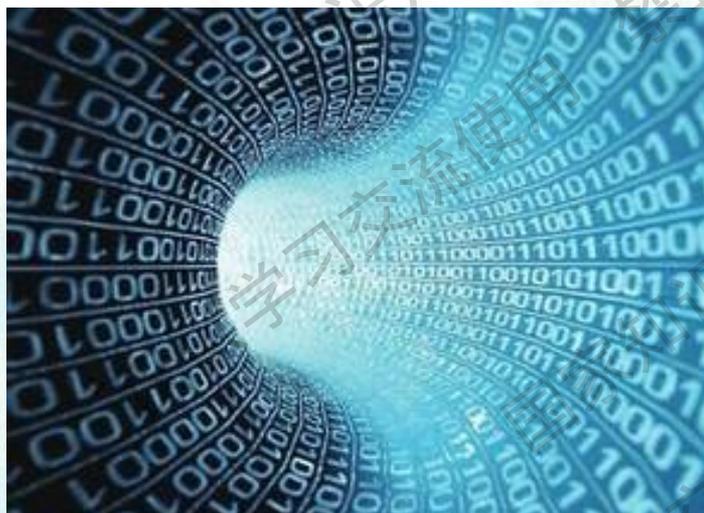
- 数据库
- 软件



✓ 主观因素

- 目的与种类
- 技术与策略
- 能力与经验

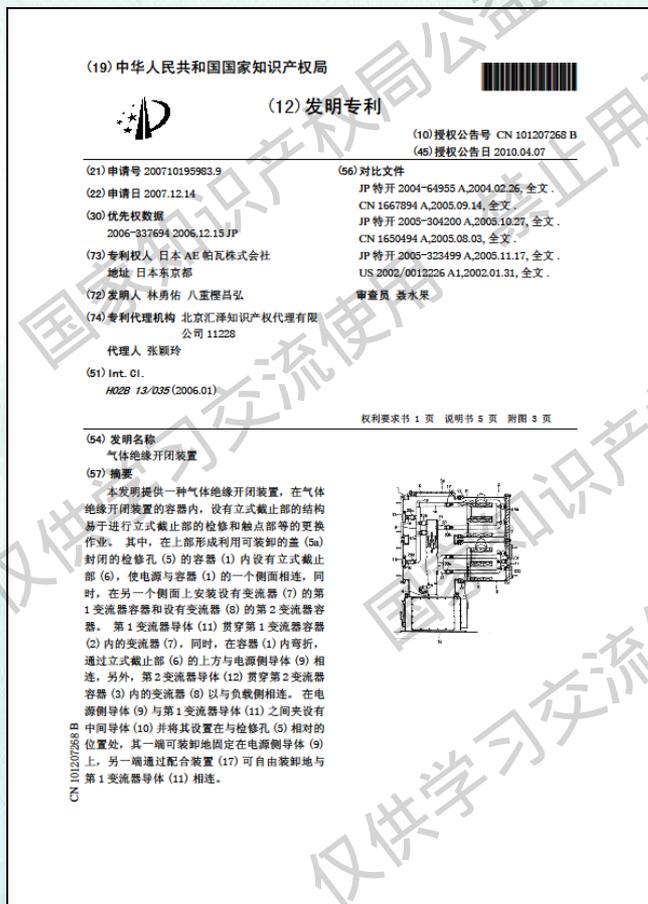
第二部分 专利文献检索数据资源



- 基础知识
- 公共专利文献数据资源
- 商业数据库

基础知识

专利记录与字段



专利记录



字段

• 专利信息检索入口

- 申请日
- 公开日
- 公告日
- 授权公告日

- 分类号
- 发明名称
- 摘要
- 关键词

号码

- 申请号
- 公开号
- 公告号
- 专利号

日期

相关人

- 专利申请人
- 专利权人
- 发明人
- 专利受让、转让人

技术主题

• 专利信息检索功能

➤ 逻辑组配检索功能

• “与”算符

交集 $A \cap B$

例如：发酵 and 酒

• “或”算符

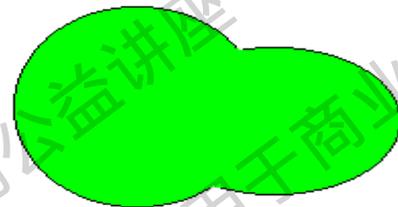
并集 $A \cup B$

例如：空气 or 气体

• “非”算符

差集 $\text{not } A$

例如：家畜 not 牛



• 专利信息检索功能

➤ 通配检索功能

截断检索

用截断符通配的字符串构成检索词进行检索
(一个截断符=任意数量的字符)

✓ drill截断符=drill, drilled, drilling等

强制检索

用强制符通配的字符串构成检索词进行检索
(一个强制符=一个字符)

✓ fu强制符ee=fuzee, fusee等

选择检索

用选择符通配的字符串构成检索词进行检索
(一个选择符=0到一个字符)

✓ pen选择符=pen, pens等

• 专利信息检索功能

➤ 位置检索功能

邻词检索

- 限定被检索词的位置关系

- ✓ Vitamin 邻词算符 B= Vitamin和B紧挨着

共存检索

- 限定被检索词同时存在于同一句话或同一段落

- ✓ apple 共存算符 tree=apple和tree同时存在于一句话或一个段落中

• 专利信息检索功能

➤ 范围检索功能

— 某一数值或日期检索字段内使用**大于**，**大于等于**，**小于**，**小于等于**，从···到···等运算符号检索

➤ 二次检索功能

— 在上一检索结果中再次限定检索



- www.cnipa.gov.cn (国家知识产权局官网)
- www.espacenet.com (欧专局, 世界90多个国家和两个组织专利检索)
- www.uspto.gov (美国专利/专利引文/法律状态检索)
- www.jpo.go.jp (日本专利检索, 法律状态检索)
- www.kipris.or.kr (韩国专利检索, 法律状态检索)

特别注意：

- 各国专利局网站常有改版，请定时关注
- 本次课程所涉截图网站登陆于2019年10月17日

公共数据资源

内部邮箱 English

国家知识产权局
NATIONAL INTELLECTUAL PROPERTY ADMINISTRATION, PRC

国家市场监督管理总局

站内搜索 搜索

政务 概况 | 信息公开 | 新闻发布 | 代理管理 | 政策法规 | 国际合作 | 执法维权 | 统计信息 | 文献服务

互动 局领导信箱 | 意见征求 | 访谈直播 | 教育培训 | 网上信访 | 视频点播

政务服务平台 »

习近平出席投运仪式并宣布北京大兴国际机场正式投入运营

习近平乘坐轨道列车前往机场 巡航航站楼 | 看望参与机场建设和运营的工作人员代表 | 韩正出席仪式并致辞

“不忘初心、牢记使命”主题教育

信息公开 相关法规 | 公开指南 | 公开目录 | 依申请公开 | 年度报告

时政要闻 国务院文件 知识产权工作 地方动态 媒体视点

- 申长雨应邀赴中央党校（国家行政学院）作报告 2019-09-25
- 国家知识产权局第六届集体婚礼圆满礼成 2019-09-25
- 深入开展消费扶贫 助力湖南桑植、河北崇礼打赢脱贫攻坚战 2019-09-25
- “中华人民共和国成立70周年”活动标志获得特殊标志保护 2019-09-20
- 国家知识产权局三个青年集体获评中央和国家机关青年文明号 2019-09-20
- 2019年度优化产业营商环境专利政策支撑分析项目启动会在京召开 2019-09-20
- “知识产权服务万里行”黑龙江站活动启动 2019-09-20

局领导 | 局领导信箱

专利 中国专利电子申请网 专利审批流程
PCT申请 专利检索 专利审查信息查询
专利事务服务 专利复审和无效

专利检索

使用前必读

本系统提醒您：在使用本系统的所有功能之前，请您务必仔细阅读并透彻理解本声明。您可以选择不使用本系统，但如果您使用本系统，您的使用行为将被视为对本声明全部内容的认可。

免责声明：鉴于本系统使用非人工检索/分析方式，无法确定您输入的条件进行是否合法，所以本系统对检索/分析出的结果不承担责任。如果因以本系统的检索/分析结果作为任何商业行为或者学术研究的依据而产生不良后果，本系统不承担任何法律责任。

关于隐私权：访问者在本系统注册时提供的一些个人资料，本系统除您本人同意外不会将用户的任何资料以任何方式泄露给第三方。当政府部门、司法机关等依照法定程序要求本系统披露个人资料时，本系统将根据执法单位之要求或为公共安全之目的提供个人资料，在此情况下的披露，本系统不承担任何责任。

关于版权：

- 一、凡本系统注明“国家知识产权局”、“专利检索及分析”的所有作品，其版权属于国家知识产权局和本系统（www.pss-system.cnipa.gov.cn）所有。其他媒体、网站或个人转载使用时不得进行商业性的原版原式的转载，也不得歪曲和篡改本系统所发布的内容。
- 二、凡本系统转载其他媒体作品的目的在于传递更多信息，并不代表本系统赞同其观点和对真实性负责；其他媒体、网站或个人转载使用时必须保留本站注明的文章来源，并自负法律责任。
- 三、被本系统授权使用的单位，不应超越授权范围。
- 四、本系统提供的资料如与相关纸质文本不符，以纸质文本为准。
- 五、如因作品内容、版权和其它问题需要同本系统联系的，请在本系统发布该作品后的30日内进行。

关于解释权：本系统之声明以及其修改权、更新权及最终解释权均属本站以及国家知识产权局所有。

同意

退出

记住我的选择



常规检索



检索

检索模式：自动识别

支持二目逻辑运算符AND、OR。

多个检索词之间用空格间隔，如：智能 手机。

系统默认二目逻辑运算符是AND,如输入智能 手机，系统按照智能 AND 手机进行检索。

日期支持间隔符“-”、“.”，支持如下格式：YYYY-MM-DD、YYYY.MM.DD、YYYYMMDD、YYYYMM、YYYY。

支持半角()算符，如输入国产(智能 手机)，系统优先执行智能 AND 手机，然后将所得结果集与国产进行AND运算。

如果检索条件中包含空格、保留关键字或运算符，需使用半角双引号，如：“WILLIAMS AND LANE INC”。

常规检索

 检索

全选 **数据范围**

中国

- 中国发明申请
- 中国实用新型
- 中国外观设计
- 香港
- 澳门
- 台湾

主要国家/地区/组织

- EPO
- WIPO
- 美国
- 日本
- 韩国
- 英国
- 法国
- 德国
- 俄罗斯
- 瑞士

其他国家/地区/组织

- 奥地利
- 澳大利亚
- 比利时
- 荷兰
- 加拿大
- 西班牙
- 墨西哥

常规检索

检索式编辑区域

检索

- 自动识别
- 检索要素
- 申请号
- 公开(公告)号
- 申请(专利权)人
- 发明人
- 发明名称

如果 如果输入有空格,则需加英文双引号,如“沈阳 中国石油”;否则系统将按照沈阳 OR 中国石油检索。

如果 如果输入保留关键字(运算符),需要在保留关键字两边加英文的双引号。例如沈阳 “and” 中国石油、“(沈阳)”。

自动在标题、摘要、权利要求和分类号中检索

检索字段选择区域

公共数据资源

检索历史

检索式运算 检索式运算 执行

16 复合文本=(智能手机) 40030篇 2019-10-17 引用 检索	15 复合文本=(智能) AND 复... 83364篇 2019-09-26 引用 检索	6 复合号码=(CN20151064... 2篇 2017-09-12 引用 检索	暂无检索历史
--	---	---	--------

检索结果统计

搜索式 列表式 多图式 申请日降序 过滤

第 1 页 共 3336 页 40030 条数据

申请人统计
发明人统计
技术领域统计
申请日统计
公开日统计

一种比色荧光探针及其制备方法和应用 【公开】 同族: 0 引证: 0 被引: 0

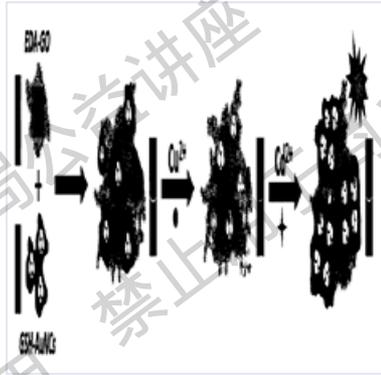
申请号: CN201910773485.0
申请日: 2019.08.21
公开(公告)号: CN110320195A
公开(公告)日: 2019.10.11
IPC分类号: G01N21/64;G01N21/78;
申请(专利权)人: 合肥工业大学;
发明人: 于少明;王海倩;蒋长龙;汤政涛;
代理人: 乔恒婷;
代理机构: 安徽省合肥新安专利代理有限责任公司 34101;

详览 收藏 + 分析库 申请人 法律状态

一种智能开关面板 【公开】 同族: 0 引证: 0 被引: 0

申请号: CN201910768527.1
申请日: 2019.08.20

操控按钮



公共数据资源



中文 | English | Français | Deutsch | русский | Español | Português | عربي | 日本語

常规检索

高级检索

导航检索

药物检索

热门工具

命令行检索

> 专利分析

仅供学习交流使用 国家知识产权局公益讲座 禁止用于商业用途

公共数据资源

范围筛选

中国：
中国发明专利 香港
中国实用新型 澳门
中国外观设计 台湾

主要国家和地区：
EPO WIPO 美国
日本 韩国 英国
法国 德国 俄罗斯
瑞士

其它国家和地区：
奥地利 澳大利亚
比利时 荷兰 加拿大

高级检索

[清除](#) [配置](#)

申请号	<input type="text"/>	申请日	=	<input type="text"/>
公开(公告)号	<input type="text"/>	公开(公告)日	=	<input type="text"/>
发明名称	<input type="text"/>	IPC分类号		<input type="text"/>
申请(专利权)人	<input type="text"/>	发明人		<input type="text"/>
优先权号	<input type="text"/>	优先权日	=	<input type="text"/>
摘要	<input type="text"/>	权利要求		<input type="text"/>
说明书	<input type="text"/>	关键词		<input type="text"/>

检索式编辑区

AND OR NOT () +

[扩展](#) [跨语言](#)

[生成检索式](#) [清空检索式](#) [检索](#)

公共数据资源

常规检索 高级检索 **导航检索** 药物检索 热门工具 命令行检索 > 专利分析

所在位置: 首页 >> 导航检索

A 人类生活必需;
B 部—作业; 运输;
C 化学; 冶金;
D 部—纺织; 造纸;
E 部—固定建筑物;
F 部—机械工程; 照明;
加热; 武器; 爆破;
G 物理;
H 部—电学;

分类号 中文含义 英文含义

A

查询

分类号:(鼠标悬停进行检索)

- A
- A01
- A21
- A22
- A23
- A24
- A41
- A42
- A43
- A44
- A45
- A46
- A47
- A61
- A62
- A63
- A99

CN 中文含义
人类生活必需;

EN 英文含义
HUMAN NECESSITIES;

公共数据资源

政策解读

图解

专题专栏



- 商标电子申请常见问题解答 2019-09-17
- 《关于新形势下加快建设知识产权信... 2019-09-12
- 关于制定《关于商标电子申请的规定... 2019-08-29
- 开展“蓝天”行动 加强代理监管 2019-05-29
- 2019年全国专利代理师资格考试常... 2019-05-23
- 商标法修改相关问题解读 2019-05-09

系统平台

国务院知识产权战略实施工作
部际联席会议办公室

国家知识产权战略网

表格下载



知识产权维权：
12330

客户服务中心：

010-6235 6655



网上信访



咨询台



公益讲座报名

中国商标网

中国地理标志网

相关链接

直属单位

专利代办处

中国政府网

国务院部门网站

地方知识产权局网站

国外主要知识产权网站

人民网知识产权频道

中国打击侵权假冒工作网

重点产业专利信息服务平台

中央国家机关举报网站

国务院“放管服”改革专项督查专栏

公共数据资源

政策解读

图解

专题专栏



- 商标电子申请常见问题解答 2019-09-17
- 《关于新形势下加快建设知识产权信... 2019-09-12
- 关于制定《关于商标电子申请的规定... 2019-08-29
- 开展“蓝天”行动 加强代理监管 2019-05-29
- 2019年全国专利代理师资格考试常... 2019-05-23
- 商标法修改相关问题解读 2019-05-09

系统平台

国务院知识产权战略实施工作
部际联席会议办公室

国家知识产权战略网

表格下载



知识产权维权：
12330

客户服务中心：

010-6235 6655



网上信访



咨询台



公益讲座报名

中国商标网

中国地理标志网

相关链接

直属单位

专利代办处

中国政府网

国务院部门网站

地方知识产权局网站

国外主要知识产权网站

人民网知识产权频道

中国打击侵权假冒工作网

重点产业专利信息服务平台

中央国家机关举报网站

国务院“放管服”改革专项督查专栏

国际组织

世界知识产权组织(WIPO)
世界贸易组织(WTO)TRIPS专栏
世界知识产权组织仲裁与调解中心

世界知识产权组织中小企业司(SMEs)
国际植物新品种保护联盟(UPOV)

地区组织

非洲知识产权组织(OAPI)
欧洲专利局(EPO)
欧盟知识产权局

非洲地区工业产权组织(ARIPO)
比荷卢知识产权组织(BOIP)
欧亚专利组织

国家局(部分)

罗马尼亚
智利
美国
墨西哥
新加坡
冰岛
捷克
塞尔维亚

阿根廷
丹麦
印度
荷兰
西班牙
乌克兰
保加利亚
克罗地亚

澳大利亚
法国
意大利
新西兰
奥地利
白俄罗斯
立陶宛
斯洛文尼亚

加拿大
芬兰
英国
挪威
瑞士
波兰
拉脱维亚
波黑

巴西
德国
日本
葡萄牙
瑞典
匈牙利
爱沙尼亚
马其顿



Search [Website](#) [Patents](#)

[Media](#) [Contact us](#)

- [Home](#)
- [Searching for patents](#)
- [Applying for a patent](#)
- [Law & practice](#)
- [News & issues](#)
- [Learning & events](#)
- [About us](#)

Home > Searching for patents > Technical information > Espacenet - patent search

Espacenet - patent search

Espacenet patent search

 Print  Share

[Global Patent Index \(GPI\)](#)

[European Publication Server](#)

[Searching Asian documents](#)

[EP full-text search](#)



With its worldwide coverage and simple search features, Espacenet offers free access to information about inventions and technical developments from 1782 to today.

Support

Talk to EPO experts or get help from other users

> [Visit the discussion forum](#)

Contact

> [Contact us](#)

Espacenet

Missed the June webinars? Listen to the recording!



Europäisches Patentamt
European Patent Office
Office européen des brevets

Espacenet
Patent search

Deutsch English Français
Contact
Change country ▼

« About Espacenet Other EPO online services ▼

Search Result list **★ My patents list (0)** Query history Settings Help

Smart search
Advanced search
Classification search

Espacenet: free access to over 110 million patent documents

Smart search: Siemens EP 2007

Clear Search

Maintenance news

Due to technical maintenance work, Espacenet will not be available between 09:00 and 19:00 hrs CET on 17 March 2019. Regular maintenance outages: scheduled between 05.00 and 05.30 hrs CET, Monday to Sunday. → [read more...](#)

News flashes +
Data coverage +
Related links +

Try the new Espacenet beta
[Tell us what you think.](#)



Innovate Search Find

CPC International
The CPC International project (CPCI) was launched on 24/25 August 2019.
[Read more...](#)

Online products - need some answers?
Use the [discussion forum](#) and get all the latest news and views about our online products. Read the regular postings from the forum team, post your questions, and answer those of other users.



Espacenet
Patent search

Deutsch English Français

Contact

Change country ▼

◀ About Espacenet Other EPO online services ▼

Search Result list **★ My patents list (0)** Query history Settings Help

Refine search → Results

Smart search
Advanced search
Classification search

Result list

Select all (0/1) Compact Export (CSV | XLS) Download covers Print

1 result found in the Worldwide database for num = DE4331431C1 using Smart search

1. Verkehrsleiteinrichtung zur Steuerung des Fahrbetriebes und des Verkehrsablaufes für den schienengebundenen Verkehr

★ Inventor: POLKE MARTIN PROF DR [DE] BALZER DIETRICH PROF DR ING [DE] (+4)	Applicant: ELPRO AG [DE]	CPC: <u>B61L23/22</u> <u>B61L27/00</u>	IPC: B61L23/22 B61L27/00 (IPC1-7): B61L27/00 (+1)	Publication info: DE 4331431 (C1) 1995-03-02	Priority date: 1993-09-13
--	-----------------------------	--	--	---	------------------------------

Quick help

- [Can I subscribe to an RSS feed of the result list?](#)
- [What does the RSS reader do with the result list?](#)
- [Can I export my result list?](#)
- [What happens if I click on "Download covers"?](#)
- [Why is the number of results sometimes only approximate?](#)
- [Why is the list limited to 500 results?](#)
- [Can I deactivate the highlighting?](#)
- [Why is it that certain documents are sometimes not displayed in the result list?](#)
- [Can I sort the result list?](#)
- [What happens if I click on the star icon?](#)
- [What are XP documents?](#)
- [Can I save my query?](#)

Related links +



Espacenet
Patent search

Deutsch English Français

Contact

Change country ▼

◀ About Espacenet Other EPO online services ▼

Search Result list **★ My patents list (0)** Query history Settings Help

Refine search → Results → DE4331431 (C1)

DE4331431 (C1)

Bibliographic data

Description

Claims

Mosaics

Original document

Cited documents

Citing documents

INPADOC legal status

INPADOC patent family

Quick help -

- [What is meant by high quality text as facsimile?](#)
- [What does A1, A2, A3 and B stand for after a European publication number?](#)
- [What happens if I click on "In my patents list"?](#)
- [What happens if I click on the "Register" button?](#)
- [Why are some sidebar options deactivated for certain documents?](#)

Bibliographic data: DE4331431 (C1) — 1995-03-02

★ In my patents list  Report data error

 Print

Verkehrsleiteneinrichtung zur Steuerung des Fahrbetriebes und des Verkehrsablaufes für den schienengebundenen Verkehr

Page bookmark: [DE4331431 \(C1\) - Verkehrsleiteneinrichtung zur Steuerung des Fahrbetriebes und des Verkehrsablaufes für den schienengebundenen Verkehr](#)

Inventor(s): POLKE MARTIN PROF DR [DE]; BALZER DIETRICH PROF DR ING [DE]; LEIBNITZ ERICH DIPL ING [DE]; BAER ALEXANDER DIPL ING [DE]; CYBULENSKI BURKHARD DIPL ING [DE]; RICHTER KARL DIPL ING [DE] ±

Applicant(s): ELPRO AG [DE] ±

Classification: - international: [B61L23/22](#); [B61L27/00](#); (IPC1-7): [B61L27/00](#); [B61L3/12](#)
- cooperative: [B61L23/22 \(EP\)](#); [B61L27/00 \(EP\)](#)

Application number: [DE19934331431](#) 19930913

Priority number(s): DE19934331431 19930913

Also published as: → [AT188930 \(T\)](#) [EP0719224 \(A1\)](#) [EP0719224 \(B1\)](#) [WO9507832 \(A1\)](#)

Abstract not available for DE4331431 (C1)

Translate this text into 

English

 patenttranslate powered by EPO and Google

Original claims

Claims tree

The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.

1. Verkehrsleiteinrichtung zur Steuerung des Fahrbetriebes und des Verkehrsablaufes einschliesslich der Transportlogistik für den schienengebundenen Verkehr mit folgenden Merkmalen:

1. Die Verkehrsleiteinrichtung ist rechnerunterstützt und hierarchisch aufgebaut und ist insbesondere geeignet für eingleisige Strecken und für den Regionalverkehr, wobei

1.1 die unterste, prozessnahe Ebene aus "sicheren" Fahrzeugrechnern, die auf jedem Fahrzeug (F1, F2) angeordnet sind,

1.2 die mittlere, 1. übergeordnete Ebene aus einem "sicheren" Steuerrechner und

1.3 die oberste, übergeordnete Ebene aus einem Leitreechner, der nicht in die Streckensicherung und den Fahrbetrieb eingreift, besteht.

2. Es erfolgt eine Echtzeiterfassung von Fahrzeugdaten, wie

2.1 Standort, Fahrtrichtung, Geschwindigkeit

2.2 durch Satellitenortung und/oder ortsfeste Informationspunkte (1-12) und

2.3 fahrzeugspezifischer Daten,

2.4 sowie die Sicherung

2.4.1 der Strecken,

2.4.2 des Fahrbetriebes und

2.4.3 der Transportlogistik.

3. Die "sicheren" Fahrzeugrechner haben die Funktion,



Europäisches Patentamt
European Patent Office
Office européen des brevets

Patent Translate

Powered by EPO and Google

English

French

Albanian

Bulgarian

Croatian

Czech

Danish

Dutch

Estonian

Finnish

Greek

Hungarian

Icelandic

Italian

Latvian

Lithuanian

Macedonian

Norwegian

Polish

Portuguese

Romanian

Serbian

Slovak

Slovene

Spanish

Swedish

Notice

This translation is machine-generated. It cannot be guaranteed that it is intelligible, accurate, complete, reliable or fit for specific purposes. Critical decisions, such as commercially relevant or financial decisions, should not be based on machine-translation output.

CLAIMS DE4331431

1.

Traffic control device for controlling the driving operation and the traffic flow including the transport logistics for the rail-bound traffic with the following features:

1. The Verkehrsleiteinrichtung is computer-aided and hierarchical structure and is particularly suitable for single-track and for regional traffic, said

1.1 the lowest, process-level level of "safe" vehicle computers, which are arranged on each vehicle (F1, F2),

1.2 the middle, 1st parent level from a "secure" tax calculator and

1.3 the upper, higher level consists of a master computer, which does not intervene in the line safety and the driving operation exists.

2.

There is a real-time recording of vehicle data, such as

2.1 Location, direction of travel, speed

2.2 by satellite positioning and / or fixed information points (1-12) and

2.3 vehicle-specific data,

2.4 as well as the fuse

2.4.1 the routes,

2.4.2 of driving and

Print

PDF (only translation)

PDF (original and translation)

Please help us to improve the translation quality.

Your opinion on this translation:

- Human translation
- Very good
- Good
- Acceptable
- Rather bad
- Very bad

Your reason for this translation:

- Overall information
- Patent search
- Patent examination

Submit

[FAQ](#)

[Help](#)

[Legal notice](#)

[Contact](#)

US专利检索



UNITED STATES
PATENT AND TRADEMARK OFFICE

[About Us](#) | [Jobs](#) | [Contact Us](#) | [MyUSPTO](#)

Search uspto.gov

[Patents](#)

[Trademarks](#)

[IP Policy](#)

[Learning and Resources](#)

Getting started

- ▶ [Patent basics](#)
- ▶ [Process overview](#)
- ▶ [Legal assistance and resources](#)
- ▶ [Inventor and entrepreneur resources](#)
- ▶ [International cooperation](#)
- ▶ [Patent FAQs](#)

Application process

- ▶ [Search for patents](#)
- ▶ [Learn about patent classification](#)
- ▶ [Filing online](#)
- ▶ [Checking application status](#)
- ▶ [Responding to Office actions](#)
- ▶ [Petitions](#)
- ▶ [Patent Trial and Appeal Board](#)

Maintaining a patent

- ▶ [Maintenance fees](#)
- ▶ [Correcting your patent](#)
- ▶ [Transferring ownership](#)
- ▶ [Ordering certified documents](#)

Tools & links

About EFS-Web

File a patent application online with EFS-web

Fees and payment

Pay maintenance fees and learn more about filing fees and other payments

Global Dossier

View international patent filings

More tools & links

Check application status

Check patent application status with public PAIR and private PAIR

Patent Trial & Appeal Board

Resolve disputes regarding patents with PTAB

Engineering a better life

An accident changed Rory Cooper's life and set him on a path to improving the well-being of people with mobility impairments. [FULL STORY >](#)

[Patent basics >](#)

[Trademark basics >](#)

[Find help in your area >](#)

Application process

Search for patents

Accessing Published Applications

Authority Files

Filing Year by Application Serial Number

Understanding Patent Classifications

Withdrawn Patent Numbers

Learn about patent classification

Filing online

Checking application status

Responding to Office actions

Petitions

Search for patents

New to Patent Searching? See this important information about searching for patents:

[How to Conduct a Preliminary U.S. Patent Search: A Step by Step Strategy](#) - Web Based Tutorial (38 minutes)

- [The Seven Step Strategy](#) - Outlines a suggested procedure for patent searching
- A [detailed handout](#) of the Seven Step Strategy with examples and screen shots.

Patents may be searched using the following resources:

- [USPTO Patent Full-Text and Image Database \(PatFT\)](#)
- [USPTO Patent Application Full-Text and Image Database \(AppFT\)](#)
- [Global Dossier](#)
- [Patent Application Information Retrieval \(PAIR\)](#)
- [Public Search Facility](#)
- [Patent and Trademark Resource Centers \(PTRCs\)](#)
- [Patent Official Gazette](#)
- [Common Citation Document \(CCD\)](#)
- [Search International Patent Offices](#)
- [Search Published Sequences](#)
- [Patent Assignment Search](#)
- [Patent Examination Data System \(PEDS\)](#)

USPTO Patent Full-Text and Image Database (PatFT)

US 专利检索

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

[Home](#)[Quick](#)[Advanced](#)[Pat Num](#)[Help](#)[View Cart](#)

Data current through October 15, 2019.

Query [\[Help\]](#)

Term 1: in Field 1:
AND
Term 2: in Field 2:

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

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, utility patent numbers are entered as one to eight numbers in length, excluding commas (which are optional, as are leading zeroes).



United States Patent and Trademark Office

An Agency of the Department of Commerce

Patent Full-Text Databases

PatFT: Patents

Full-Text from 1976

[Quick Search](#)

[Advanced Search](#)

[Number Search](#)

[View Full-Page Images](#)

[PatFT Help Files](#)

[PatFT Status, History](#)

[PatFT Database Contents](#)

[Report Problems](#)

<< BOTH SYSTEMS >>

The databases are operating normally.

[Notices & Policies](#)

[How to View Images](#)

[Assignment Database](#)

[Public PAIR](#)

[Searching by Class](#)

[Sequence Listings](#)

[Attorneys and Agents](#)

[Privacy Policy](#)

AppFT: Applications

Published since March 2001

[Quick Search](#)

[Advanced Search](#)

[Number Search](#)

[View Full-Page Images](#)

[AppFT Help Files](#)

[AppFT Status, History](#)

[Report Problems](#)

US专利检索

[Images](#)

(1 of 1)

United States Patent
Goth, et al.

6,923,014
August 2, 2005

**Please see images for: (Certificate of Correction) **

System for cooling multiple logic molecules

Abstract

An exemplary embodiment is a cooling system for cooling multiple logic modules. The cooling system includes a condenser, a first electrically controlled expansion valve coupled to the condenser and a first evaporator coupled to the first electrically controlled expansion valve. A second electrically controlled expansion valve is coupled to the condenser and a second evaporator coupled to the second electrically controlled expansion valve. A controller provides control signals to the first electrically controlled expansion valve and the second electrically controlled expansion valve to control operation of the first electrically controlled expansion valve and the second electrically controlled expansion valve. A compressor is coupled to the first evaporator, the second evaporator and the condenser.

Inventors: Goth; Gary F. (Pleasant Valley, NY), Kearney; Daniel J. (Ulster Park, NY), Makowicki; Robert P. (Staatsburg, NY), McClafferty; W. David (Gardiner, NY), Porter; Donald W. (Highland, NY)
Assignee: International Business Machines Corporation (Armonk, NY)
Family ID: 34217934
Appl. No.: 10/653,633
Filed: September 2, 2003

Current U.S. Class: 62/259.2; 165/80.4; 361/699; 62/211; 62/407
Current CPC Class: F25B 5/02 (20130101); F25B 2341/0653 (20130101); F25B 2700/2116 (20130101); F25B 2700/21161 (20130101); F25B 2700/21163 (20130101); F25B 2700/2117 (20130101); F25B 2700/21174 (20130101); F25B 2700/21175 (20130101); Y02B 30/72 (20130101); F25B 5/02 (20060101); F25B 5/00 (20060101); F25D 023/12 (20060101); F25D 259.2; 407,408,211,210,204 ;361/699;165/80.4,104.33
Current International Class:
Field of Search:

References Cited [\[Referenced By\]](#)

U.S. Patent Documents

[4986085](#) January 1991
[5502970](#) April 1996
[5694782](#) December 1997
[5771703](#) June 1998
[5791155](#) August 1998
[6121735](#) September 2000
[6182742](#) February 2001
[6272870](#) August 2001
[6595018](#) July 2003

Tischer
Rajendran
Alsenz
Rajendran
Tulpule
Igeta et al.
Takahashi et al.
Schaeffer
Goth et al.

Foreign Patent Documents

Jul 1985

EP

0 148 102

US 专利检索



United States Patent and Trademark Office

Home | Site Index | Search | FAQ | Glossary | Guides | Contacts | eBusiness | eBiz alerts | News | Help

Patent #: US006923014 Section: Front Page 1 of 6 pages Help

US000006923014B220050802

1 / 1



Full Text
Help

Go to Page:

Go



Sections:

- Front Page
- Drawings
- Specifications
- Claims
- Correction

Full Document:

Full Pages



US006923014B2

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

(10) Patent No.: **US 6,923,014 B2**
(45) Date of Patent: **Aug. 2, 2005**

(54) **SYSTEM FOR COOLING MULTIPLE LOGIC MOLECULES**

5,694,782 A	*	12/1997	Alsensz	62/156
5,771,703 A		6/1998	Rajendran	
5,791,155 A		8/1998	Tulpule	
6,121,735 A		9/2000	Igeta et al.	
6,182,742 B1	*	2/2001	Takahashi et al.	165/104.33
6,272,870 B1		8/2001	Schaeffer	
6,595,018 B2	*	7/2003	Goth et al.	62/259.2

(75) Inventors: **Gary F. Goth**, Pleasant Valley, NY (US); **Daniel J. Kearney**, Ulster Park, NY (US); **Robert P. Makowicki**, Staatsburg, NY (US); **W. David McClafferty**, Gardiner, NY (US); **Donald W. Porter**, Highland, NY (US)

FOREIGN PATENT DOCUMENTS

EP	0 148 102 A2	7/1985
JP	9-280696	10/1997
JP	11-108228	4/1999

* cited by examiner

Primary Examiner—Melvin Jones
(74) Attorney, Agent, or Firm—Floyd A. Gonzalez; Cantor Colburn LLP

(73) Assignee: **International Business Machines Corporation**, Armonk, NY (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(6) by 155 days.

(57) **ABSTRACT**

An exemplary embodiment is a cooling system for cooling multiple logic modules. The cooling system includes a condenser, a first electrically controlled expansion valve coupled to the condenser and a first evaporator coupled to the first electrically controlled expansion valve. A second electrically controlled expansion valve is coupled to the condenser and a second evaporator coupled to the second electrically controlled expansion valve. A controller provides control signals to the first electrically controlled expansion valve and the second electrically controlled expansion valve to control operation of the first electrically controlled expansion valve and the second electrically controlled expansion valve.

(21) Appl. No.: **10/653,633**

(22) Filed: **Sep. 2, 2003**

(65) **Prior Publication Data**

US 2005/0044869 A1 Mar. 3, 2005

(51) Int. Cl.⁷ **F25D 23/12**

(52) U.S. Cl. **62/259.2**; 62/211; 62/407; 165/80.4; 361/699

(58) Field of Search 62/259.2, 407, 62/408, 211, 210, 204; 361/699; 165/80.4, 104.33

JP 专利检索



特許庁
JAPAN PATENT OFFICE

文字の大きさ [小](#) [中](#) [大](#)
[English](#) | [投書箱 \(ご意見・ご要望\)](#) | [ホームページの使い方](#) | [アクセスマップ](#)

[用語解説](#)

- ホーム
- お知らせ
- 制度・手続
- 支援情報・活用事例
- 資料・統計
- 特許庁について
- お問い合わせ Q&A

重要なお知らせ | [令和元年台風19号により影響を受けた手続の取り扱いについて](#)

サイト内検索

例：出願の手続き、知的財産権制度

よく検索されるワード

- 審査基準
- AI
- テキスト
- 先使用権
- 実務者
- 減免
- 料金

注目情報

- J-Plat Pat 特許情報プラットフォーム
- STARTUPS × 知財 塾
- 手続料金計算システム
- 産業財産権関係料金一覧

制度から探す | 目的から探す | 利用者別に探す

- 特許
- 実用新案
- 意匠
- 商標
- 審判
- 国際出願
- 登録

JP专利检索

The image shows the homepage of the Japan Patent Office (JPO). At the top left is the JPO logo. To its right are links for "Japanese", "Opinion Box", and "Access", along with text size options (S, M, L). A navigation bar contains links for "HOME", "Announcements", "Systems/Procedures", "Related Services", "Statistics/References", "About JPO", and "FAQs".

The main content area is divided into "Site Search" and "Quick Links". The "Site Search" section includes an example search query and a list of "Frequently Searched Keywords" such as "AI accelerated examination" and "patent search". The "Quick Links" section contains several links, with "[J-PlatPat] Search (Patent, Design, Trademark, etc.) (External Link)" highlighted by a red box. Other links include "FAQs > Searching for Patents, Utility Models, Designs, Trademarks", "Schedule of fees", and "Examination Guidelines for Patent and Utility Model in Japan".

At the bottom, there is a section titled "Understanding IP" with a sub-header "Information for". It features six blue buttons with icons and text: "Patents", "Utility models", "Designs", "Trademarks", "Appeals / Trials", and "International Applications (PCT/Madrid/Hague)".

JP 专利检索

Patents/Utility Models

Designs

Trademark

Trials & Appeals

Patent/Utility Model Number Search/OPD

Patent/Utility Model Search

Patent/Utility Model Classification Search (PMGS)

Number Search/OPD

▶ Help

If you select a document, you can retrieve various publications including patents/utility models, foreign documents, and non-patent documents (journals of technical disclosure).

If you select OPD retrieval, you can view application information and examination information (dossier information) at patent offices around the world.

Select an issued country/region/issued organization and type, and enter a number.

Search target

Document OPD Retrieval

Input type

- Number Searches are performed only for the numbers entered. If you input multiple numbers, separate them with a space.
- Number range Searches are performed in the specified range of numbers.
- DOCDB Searches are performed only for the numbers entered. Include a country/region code for each number. 

Publication country/region/office

Japan (JP) 



Number type

Patent application number 



Number

Ex: 2019-00012X 2019-12X H31-00012X

 Delete

JP 专利检索

🔍 Patent/Utility Model Number Search/OPD

▶ Help

If you select a document, you can retrieve various publications including patents/utility models, foreign documents, and non-patent documents (journals of technical disclosure).

If you select OPD retrieval, you can view application information and examination information (dossier information) at patent offices around the world.

Select an issued country/region/issued organization and type, and enter a number.

Search target

Document OPD Retrieval

Input type

- Number Searches are performed only for the numbers entered. If you input multiple numbers, separate them with a space.
- Number range Searches are performed in the specified range of numbers.
- DOCDB Searches are performed only for the numbers entered. Include a country/region code for each number. ?

Publication country/region/office

Number type

Number

Japan (JP) ▼	📄	Patent application number ▼	📄	Ex: 2019-00012X 2019-12X H31-00012X
✕ Delete				
Japan (JP) ▼	📄	Publication number, Publication number ... ▼	📄	Ex: 2019-00012X 2019-12X H31-00012X

JP专利检索

Patent/Utility Model Classification Search (PMGS)

▶ Help

You can retrieve classifications by keywords for FI/F-terms and IPC (latest version). You can also retrieve classifications by code. You can set classifications for patent/utility model searches using the code retrieval.

- For revision/abolition information, refer to [FI Revision Information](#), [Theme Revision/Abolition Information](#), [Theme Code Table](#), [IPC Revision Table](#), [IPC Guidelines](#), and [Former IPC Version](#).

- For information related to classification, refer to [Patent Map Guidance \(Former\) Information](#), [IPC Classification Table and Update Information](#), [CPC Information](#), [WIPO-IPC](#), and [Additional code list](#).

Code Inquiry

Search by Keyword

Search target

FI/Facet F-term IPC (latest version)

Display type

FI FI handbook

Keyword

Within FI/facet



Ex: JPO

AND

Search range (classification)

Ex: 2R+5R001

途

仅供字

JP 专利检索

Patents/Utility Models

Designs

Trademark

Trials & Appeals

[Home](#) > [Simple Search](#)

 Simple Search

[▶ Help](#)

Input keywords or numbers of desired patents/utility models, designs or trademarks. For search targets, click [here](#).

For a detailed search by classification, date, etc., use appropriate services listed in the menu.

All law categories Patents/Utility Models Designs Trademark

Automatic narrowing



Ex1: 人工知能 Ex2: 2019-00012X

 Search

 Search Result List

[▶ Help](#)

Patents/Utility Models
Error

Designs
(0)

Trademark
(0)

Error for specification of Keyword. See Help.

JP 专利检索

Simple Search

Help

Input keywords or numbers of desired patents/utility models, designs or trademarks. For search targets, click [here](#).
For a detailed search by classification, date, etc., use appropriate services listed in the menu.

All law categories Patents/Utility Models Designs Trademark

Automatic narrowing

?

人工智能

Search

Search Result List

Patents/Utility Models
(1005)

Designs
(-)

Trademark
(-)

Search list options

Close

By publication years : All | [2019\(145\)](#) | [2018\(139\)](#) | [2017\(85\)](#) | [2016\(36\)](#) | [2015\(37\)](#) | [2014\(27\)](#) | [2013\(22\)](#) | [2012\(17\)](#) | [2011\(9\)](#) | [Other\(488\)](#)

By FI : All | [G06\(608\)](#) | [H04\(139\)](#) | [G01\(86\)](#) | [G05\(73\)](#) | [A61\(70\)](#) | [G16\(64\)](#) | [A63\(62\)](#) | [G08\(45\)](#) | [G09\(44\)](#) | [G10\(38\)](#)

JP 专利检索

JP,2019-175482,A

- Entire PDF Document
- Details
- OPD
- Search key
- URL
- Mistranslation

Display format of document display page : Text PDF

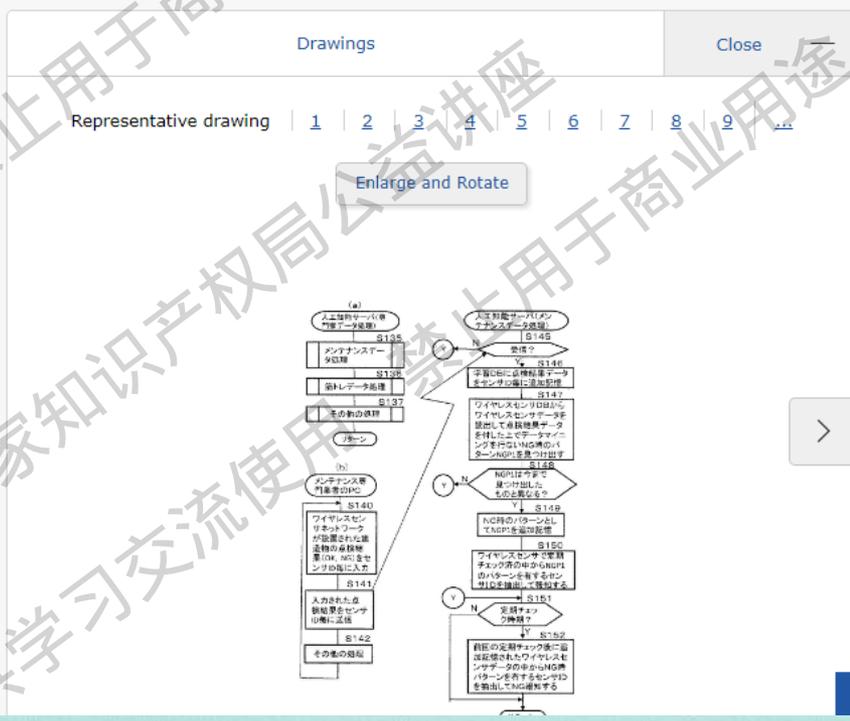
Primary document

*** NOTICE ***

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- This document has been translated by computer. So the translation may not reflect the original precisely.
- ***** shows a word which cannot be translated.
- In the drawings, any words are not translated.

Bibliography	Open	+
Overview	Open	+
Scope of Claims	Open	+
Detailed Description	Open	+
Drawings	Open	+
Written amendment	Open	+



PatentsApplication 2018-060572 [Publication2019-174200](#)

OPD

Mistranslation

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.

- History Records
- Application Information**

Application Information Close

<p>Articles on application</p> <p>Articles on publication</p> <p>Articles on applicants/representatives</p> <p>Articles on inventors and creators</p> <p>Articles on FI</p> <p>Articles on theme code</p> <p>Articles on F-term</p>	<p>Patents 2018-060572 (Mar.27,2018) Application type(Normal)</p> <p>2019-174200 (Oct.10,2019) Total number of issues(892) Annual number of issues(190041) Class of publication(0601)</p> <p>Applicant Minato-ku, Tokyo Metropolis (510241915) ** Japan Incorporated company</p> <p>Representative Number of target applicants(1) Representative in Japan Patent attorney (100120868) ABIKO, Gen</p> <p>Minato-ku, Tokyo Metropolis, Naoki Noro</p> <p>Minato-ku, Tokyo Metropolis A Yoshihiro Taka common</p> <p>Minato-ku, Tokyo Metropolis Ando **</p> <p>G01N21/27A</p> <p>2G059</p> <p>2G059 AA05</p> <p>2G059 BB08</p> <p>2G059 BB12</p> <p>2G059 BB15</p> <p>2G059 EE12</p> <p>2G059 FF01</p> <p>2G059 II06</p>
---	--

(19) 日本国特許庁 (JP)

(12) 特許公報 (B1)

(11) 特許番号

特許第6583947号
(P6583947)

(45) 発行日 令和1年10月2日 (2019.10.2)

(24) 登録日 令和1年9月13日 (2019.9.13)

(51) Int. Cl.

B 6 1 L 29/00

(2006.01)

F I

B 6 1 L 29/00

A

請求項の数 8 (全 15 頁)

(21) 出願番号 特願2019-20930 (P2019-20930)

(22) 出願日 平成31年2月7日 (2019.2.7)

審査請求日 令和1年6月5日 (2019.6.5)

早期審査対象出願

(73) 特許権者 519045387

A S S E S T 株式会社

千葉県柏市若柴276-1中央156-3
4

(74) 代理人 100120868

弁理士 安彦 元

(72) 発明者 澤田 綾子

千葉県柏市若柴276-1中央156-3
4 A S S E S T 株式会社内

審査官 今井 貞雄

最終頁に続く

(54) 【発明の名称】 踏切危険度判別プログラム及びシステム

(57) 【特許請求の範囲】

【請求項1】

踏切の危険度を判別するための踏切危険度判別プログラムにおいて、

踏切内において撮影された参照用画像情報と、当該参照用画像情報の撮影時点における当該踏切への電車の参照用接近情報と、当該参照用画像情報の撮影時点における上記踏切を横断する移動体の横断頻度を示す参照用横断頻度との組み合わせと、当該組み合わせに対する踏切の危険度との3段階以上の連関度を予め取得する連関度取得ステップと、

上記踏切において新たに危険度を判別する際に、新たに踏切内の画像を撮影することにより画像情報を取得するとともに、当該撮影時点における当該踏切への移動体の横断頻度を求め、当該撮影時点における当該踏切への電車の接近情報を取得する情報取得ステップ、

KR 专利检索

이 페이지를 시작페이지로 설정

로그인 회원가입 사이트맵 **ENGLISH** 사이트내 콘텐츠 검색전용 검색

KIPRIS 서비스

나의관심특허
특허영어사전
자료제공
찾아가는 특허서비스
관련프로그램설치

고객센터

자주찾는 질문
의견수령
검색개선사항
검색교육신청

Quick Links

- opd 국제심사청
통합조회서비스
- IPIS 질적개선사업
서비스센터
- 영업비밀보호센터
- 표준특허
- 특허나라
- PCC 공익변리사 특이상담센터
- IP-NAVI 지재권 분쟁·보호
- DESIGNMAP
- CPR 열린사회
- KTKP 한국전통자식포탈
- KIPRIS Plus

특허정보넷 키프리스

SEARCH TODAY KIPRIS PR GUIDE KIPRIS

특허·실용신안 디자인 상표 심판 KPA 특허특허 해외상표 해외디자인 인터넷기술공지 아이디어공모전 문장검색



전체 검색하스토리

인간검색어 로봇 스마트폰 부잔교 액세서리 브라켓 PROTEIN 조명

- KIPRIS 검색방법 안내
- TUTORIAL
- SITE 이용안내
- GUIDE BOOK
- 바로 따라하기 검색가이드
- KIPRIS A-Z
- 활용하기

공지사항 설문/이벤트
행사안내 교육/세미나
서비스중단 시스템개선

- [행사안내] 2019제주 청년DREAM취업박람회 & IP... 09.30
- [공지사항] 상표등록료 및 존속기간갱신등록료 분... 09.27

전체보기

초보자검색
특허정보검색을 더욱
효율적으로 이용해보세요.

검색팁 & 노하우
필요한 프로그램 및
검색방법 등 유용한
검색팁을 제공합니다.

KIPRIS 서비스
다양한 부가서비스로
조금 더 편리하고
쉽게 검색 할 수 있습니다.

키프리스
웹진
15호

TODAY KIPRIS

오늘의 공보

소셜공고

데이터 제공현황

NEW
시스템 개선

해외특허
심내할 구공번역

특허청의 지식재산권 관련
저변하 시어

KR专利检索

Make KIPRIS my homepage LOGIN JOIN SITEMAP KOREAN

KIPRIS SEARCH TODAY KIPRIS PR GUIDE KIPRIS

Patent Design Trademark KPA

상표 실용신안 디자인 특허 KIPRIS KIPRIS 키프리스
Korea Intellectual Property Rights Information Service

All Search History

Popular Searches 2803 0601 1403 C04B PS BELL SAMSUNG

TUTORIAL

Brochure

Manual

Beginner's Program
Guided Search for Beginners

Korean IP Translation companies

KIPRIS
Introduction to KIPRIS

NOTICE more

[Notice] Temporary Suspension of KIP...	2019-10-
KPA Bibliography is now available(Pat...	01
KPA Bibliography is now available(Pat...	2019-09-
	2019-08-09

业用途

仅供

KR专利检索

KIPRIS

SEARCH TODAY KIPRIS PR GUIDE KIPRIS

Patent Design Trademark KPA

View Save Query Eng-Kor

Patent

ex)1020050012345, phone, H03L, HONG, Gil Dong

Spread



Search within search results

< >

Search History

Click here! for advanced search

auto scroll off

Integrated Search

Smart Search

Patent

Select View Deselect Excel Print Setting Search Guide Manual

30 items per page Go

Category

Patent Utility model

Sort

Select

Select

Administrative Status

Entire Unexamined Withdrawn Ended Abandoned Invalidated Rejected Registered

Enter

This is Patent & Utility model Search Service.

[Guide to your Patent & Utility Model search]

- 1 Click the Expand button to input & edit your search queries.
- 2 To narrow down your results, use smart search and the query expansion function or search within results.
- 3 Use the Sort feature to reorder your results.
- 4 Refer to Help for difficult patent terms.
- 5 Following services are restricted to KIPRIS members only: Save Search Formula, My Folder and Online Download.
- 6 Sign up to get access to full features offered by KIPRIS.

New to KIPRIS?

Search Guide Help Manual

Help

Q&A

Data Coverage

Save Query

View My Folder

Save My Folder

Save All My Folder

Online Download

Real-time popular keyword

Today KIPRIS

KR专利检索

Select View Excel Print Setting 30 items per page GO

Total 3 Articles (1 / 1 Pages) **目前法律状态**

Registered [1] SUPPORTING DEVICE FOR DISPLAY UNIT(디스플레이장치용 지지장치) **PUB** ⇨

Application No.(Date) : 10201500...
IPC : H04N 5/655 H04N 5/645 H04N 5/65 G06F 1/16
Applicant : JITECH.CO.LTD
Right holder(current) : JITECH.CO.LTD

KPA (Korea Patent Abstract) Disclosed is a supporting apparatus for a display device. The supporting apparatus for a display device according to the present invention comprises: a wall-fixed unit which is fixed to a wall; a first arm which is coupled to a front surface of the wall-fixed unit to be rotatable in a horizontal direction; a joint member which is coupled to a free end of the first arm to be rotatable in a horizontal direction; a second arm which is coupled to the joint member to be rotatable in a vertical direction; a third arm which is coupled to a free end of the second arm to be rotatable in a

Unexamined [2] Method and apparatus for allocating transmission time for bi-directional relay(양방향 릴레이를 위한 전송 시간 할당 방법 및 그 장치) **PUB** ⇨

KR 专利检索

Install guide | Print All | Print | error report

SUPPORTING DEVICE FOR DISPLAY UNIT

디스플레이장치용 지지장치

Details | **Publ. Full Text** | Registr. Details | Administrative

Details | Biographical Information | Legal Status | Claim | Designated States | Citation | Family Patent

(51) Int. CL H04N 5/655(2006.01.01) H04N 5/645(2006.01.01) H04N 5/65(2006.01.01) G06F 1/16(2006.01.01)

(52) CPC H04N 5/65(2013.01) H04N 5/655(2013.01) G06F 1/1607(2013.01) H04N 5/645(2013.01)

(21) Application No.(Date) 1020150020787 (2015.02.11)

(71) Applicant JITECH CO.,LTD

(11) Registration No.(Date) 1015251670000 (2015.05.27)

(65) Unex. Pub. No.(Date)

(11) Publication No.(Date) (2015.06.02)

(86) Int'l Application No.(Date)

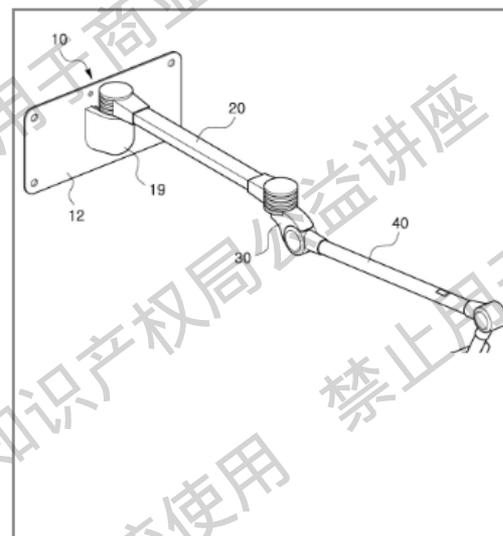
(87) Int'l Unex. Pub. No.(Date)

(30) Priority info. KR(대한민국) | 1020150012324 | 2015.01.26
(Country / No. / Date)

Legal Status Registered

Download

Zoom



Full-doc Down



DOI ?

DOI Copy

QR ?

QR Download

Facebook icon

Twitter icon

Mobile icon

KR专利检索

SUPPORTING DEVICE FOR DISPLAY UNIT

디스플레이장치용 지지장치

Details **Publ. Full Text** **Registr. Details** Administrative

Registration Details

Request for Original Register

- ※ The registration information is for reference only and cannot be used as legal evidence.
- ※ There may be difference from the original register due to data transfer time (1 day).
- ※ This page does not provide all information (e.g. licensee, full address).
- ※ We ask you to get a copy of the original register for legal use or for further details.

Patent Registration Number 10-1525167-0000

Right Information

Indication Number

Details

No.1

Application Date : 2015. 02. 11
Date of Priority Claim : 2015. 01. 26
Country of Priority Claim : Republic of Korea
Issue Date : 2015. 06. 02
Date of Decision to Grant Registration (Trial Decision) : 2015. 05. 21
Classification : H04N 5/655
Title of Invention : SUPPORTING DEVICE FOR DISPLAY UNIT
(Expected)Date of Expiration : 2035. 02. 11

Application Number : 10-2015-0020787
Number of Priority Claims : 1
Publication Number :
Number of Claims : 5

2015. 05. 27 Registration

Patentee Information

KR专利检索

SUPPORTING DEVICE FOR DISPLAY UNIT

디스플레이장치용 지지장치

Details PubL. Full Text Registr. Details **Administrative**

Administrative Actions

No.	Document Title	Receipt/Delivery Date	Status	Receipt/Delivery No.
1	[Patent Application] Patent Application ([특허출원]특허출원서)	2015.02.11	Accepted (수리)	112015014457966
2	[Request for Preferential Examination] Request for Examination (Request for Preferential Examination) ([우선심사신청]심사청구(우선심사신청)서)	2015.02.11	Accepted (수리)	112015014735617
3	Request for Prior Art Search (선행기술조사뢰서)	2015.03.05	Accepted (수리)	919999999999989
4	[Amendment to Patent Application, etc.] Amendment ([출원서등 보정]보정서)	2015.03.17	Accepted (수리)	112015025973028
5	Report of Prior Art Search (선행기술조사보고서)	2015.03.19	Accepted (수리)	912015002036391
6	Notification of reason for refusal (의견제출통지서)	2015.03.26	Completion of Transmission (발송처리완료)	952015020448707
7	[Amendment to Description, etc.] Amendment ([명세서등 보정]보정서)	2015.04.02	Regarded as an acceptance of amendment (보정승인간주)	112015032612239
8	[Opinion according to the Notification of Reasons for Refusal] Written Opinion(Written Reply, Written Substantiation) ([거절이유 등 통지에 따른 의견]의견(답변, 소명)서)	2015.04.02	Accepted (수리)	112015032612385
9	Decision to grant (등록결정서)	2015.05.21	Completion of Transmission (발송처리완료)	952015033800231
10	[Patent-Registration Fee] Payment Form ([설정 특허·등록료]납부서)	2015.05.27	Accepted (수리)	212015030919069

KR专利检索

机器翻译

SUPPORTING DEVICE FOR DISPLAY UNIT

디스플레이장치용 지지장치

Details **Publ. Full Text** Registr. Details Administrative

Machine Translation

1020150020787.pdf

1 / 14

등록특허 10-1525167



(19) 대한민국특허청(KR)

(12) 등록특허공보(B1)

(45) 공고일자 2015년06월02일

(11) 등록번호 10-1525167

(24) 등록일자 2015년05월27일

- (51) 국제특허분류(Int. Cl.)
HO4N 5/655 (2006.01) G06F 1/16 (2006.01)
HO4N 5/64 (2006.01)
- (52) CPC특허분류
HO4N 5/655 (2013.01)
G06F 1/16 (2013.01)
- (21) 출원번호 10-2015-0020787
- (22) 출원일자 2015년02월11일
심사청구일자 2015년02월11일
- (30) 우선권주장
1020150012324 2015년01월26일 대한민국(KR)
- (56) 선행기술조사문헌
JP2012134851 A
KR1020090030401 A
KR200326987 Y1
KR1020090076759 A

- (73) 특허권자
주식회사 제이아이테크
충청남도 천안시 서북구 직산읍 4산단3로 74(모시리) (모시리296)
- (72) 발명자
김동운
경기도 광명시 광덕산로 26-103동 3505호 (하안동, 두산트레지움아파트)
- (74) 대리인
특허법인세원

전체 청구항 수 : 총 5 항

심사관 : 김희주

(54) 발명의 명칭 디스플레이장치용 지지장치

Bibliographic Data

Int.Cl.	H04N 5/655 G06F 1/16 H04N 5/645 H04N 5/65
Published Date	20150602
Registration No.	1015251670000
Registration Date	20150527
Application No.	1020150020787
Application Date	20150211
Priority Claims	1020150012324 20150126 KR
Requested Date of Examination	20150211
Agent.	SeWON Patent Law Firm
Inventor	KIMDONGUN
Applicant	JITECH.CO.LTD
Rightholder	JITECH.CO.LTD

발명의 명칭

디스플레이장치용 지지장치

Title of Invention

SURPORTING DEVICE FOR DISPLAY UNIT

요약

디스플레이장치용 지지장치가 개시된다. 본 발명의 디스플레이장치용 지지장치는, 벽에 고정되는 벽 고정부; 상기 벽 고정부의 전면에 좌우 방향으로 회전 가능하게 결합되는 제1 암; 상기 제1 암의 자유단에 좌우 방향 회전 가능하게 결합되는 관절부재; 상기 관절부재에 상하 방향으로 회전 가능하게 결합되는 제2 암; 상기 제2 암의 자유단에 상하 방향으로 회전 가능하게 결합되며 디스플레이장치가 장착되는 제3 암; 및 상기 제1 암과 상기 관절부재는, 상기 제1 암과 상기 제2 암이 일직선상에 놓여져 있는 경우 척력을 발생시켜 상기 제2 암에서 제1 암 방향으로 작용하는 힘에 의해 상기 제1 암과 제2 암의 회전 조작이 원활하게 이루어질 수 있도록 마련되는 척력발생부를 포함하는 것을 특징으로 한다.

Abstract

The display apparatus supporting device is disclosed. It comprises the wall fixing unit in which the display apparatus supporting device of the invention is fixed to wall; the first arm which is rotatably coupled in the front side of the wall fixing unit to the left and right; the joint part material which is rotatably coupled in the free boundary of the first arm the left and right; and the repulsive force generating unit in which the third arm; the first arm and joint part material which is rotatably coupled in the free boundary of the second arm; second arm which is rotatably coupled in the joint part material the top and bottom the top and bottom and in which the display device is mounted are prepared so that the rotation operation of the second arm and the first arm is smoothly made with the power acting the repulsive force in which the first arm and the second arm are placed on the straight line in the generate and the second arm the first arm.

商业数据资源

德温特专利数据库

Dialog

Thomson
Innovation

STN

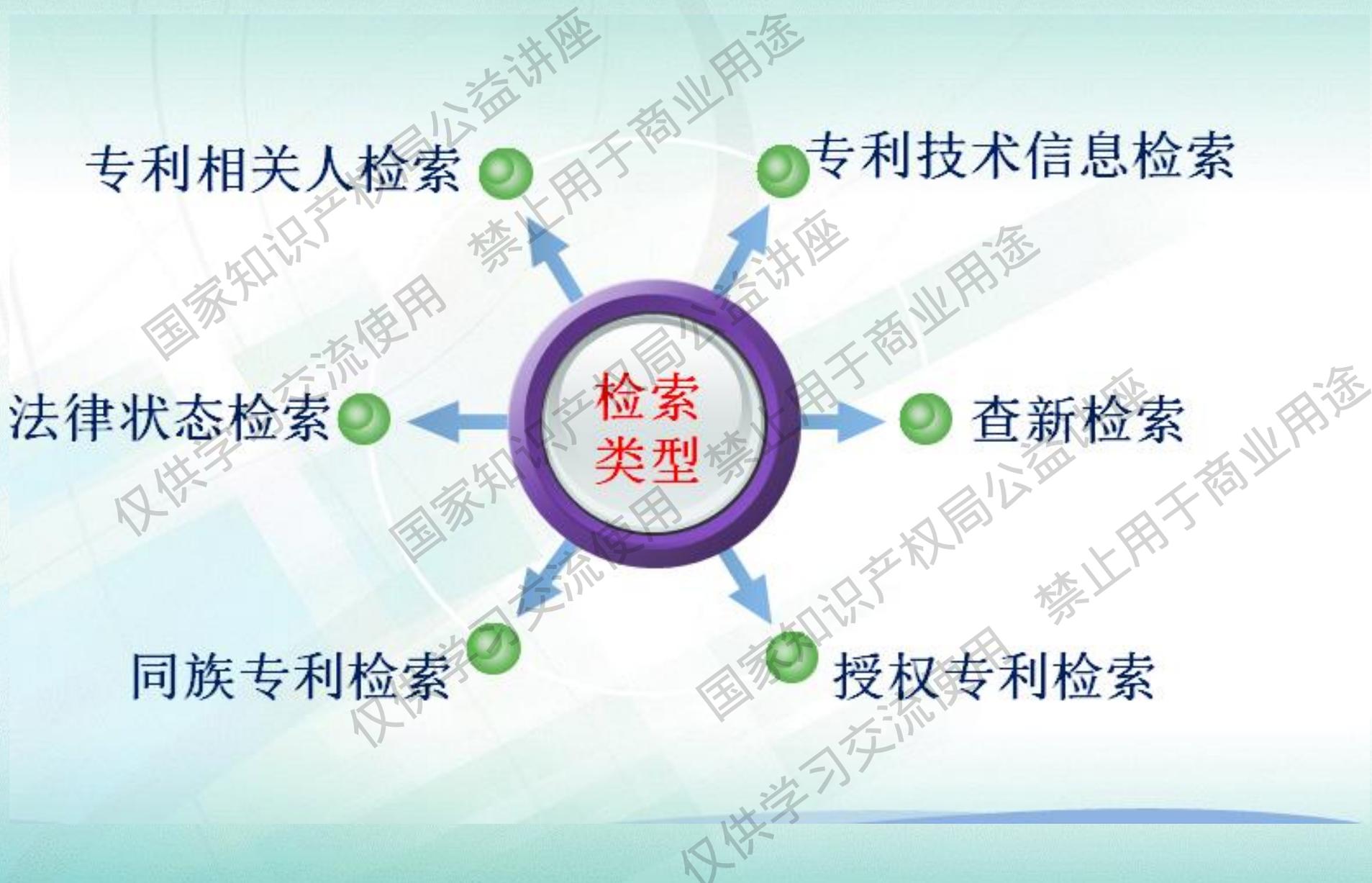
不限于此

第三部分专利信息检索实务



- ▶ 常见检索类型
- ▶ 专利检索方法与步骤

常见检索类型



• 专利技术信息检索

➤ 检索目的

找到某一技术主题相关的专利文献，重点在于**查全**

➤ 应用范围

洞察技术发展趋势，预测技术发展动向及时了解最新技术研究进展

避免重复研究和开发，寻求技术解决方案

➤ 主要检索入口

主题词，分类号



• 查新/授权专利检索

➤ 检索目的

对专利/专利申请/尚未申请专利的技术，进行世界范围的专利检索和非专利文献检索，评价该技术的新颖性和创造性

➤ 应用范围

避免重复研究和开发

预判授权前景，帮助专利申请前的决策

侵权诉讼与无效宣告的证据

指导专利维护与运用

➤ 主要检索入口

主题词，分类号，发明人，申请人



• 同族专利检索

➤ 检索目的

查找具有相同主题的技术在哪些国家或地区申请了专利

➤ 应用范围

确定专利技术保护区域

了解专利权人市场动向

寻找技术区域分布空白点

避免海外侵权风险

➤ 主要检索入口

申请号，公开/公告号



• 法律状态检索

➤ 检索目的

确定当前某一专利或专利申请的确切法律状态，了解专利是否有效、专利权人变更及保护期限等信息

➤ 应用范围

任何涉及专利的运营活动的法律保障

确定自身侵权行为的基础

➤ 主要检索入口

申请号，公开/公告号



• 专利相关人检索

➤ 检索目的

查找某一申请人/专利权人/发明人的全部专利

➤ 应用范围

了解竞争情报

人才与技术引进

➤ 主要检索入口

申请人，发明人，专利权人



专利检索一般方法与步骤

明确检索目的



分析检索主题



确定检索入口及要素



选定检索系统和/
数据库



构建检索式



浏览结果、调整策略

专利检索一般方法与步骤

明确检索目的

- ✓ 研发前技术、经济、法律信息的收集，避免重复研究
- ✓ 评价专利申请授权的可能性
- ✓ 避免侵权风险；被控侵权时证据的获得
- ✓ 专利分析、专利导航、企业知识产权战略规划



确定检索类型

专利检索一般方法与步骤

分析检索主题



确定检索要素及入口

- ◆ 阅读理解申请文件或技术交底书的技术方案及其他相关信息
- ◆ 核对申请的分类号并确定检索的技术领域
- ◆ 确定基本的检索要素，表达基本的检索要素
- ◆ 确定检索的入口

专利检索一般方法与步骤

分析检索主题



确定检索要素及入口

检索要素	要素1	要素2	要素n	其他
要素名称	要素1名称	要素2名称	要素n名称	要素以外的主题
主题词	与要素1相关的中英文关键词、同义词、近义词	与要素2相关的中英文关键词、同义词、近义词	与要素n相关的中英文关键词、同义词、近义词	需要排除的词、或者是其他主题
IPC 分类号	与要素1相关的IPC分类号	与要素2相关的IPC分类号	与要素n相关的IPC分类号	需要排除的IPC分类号
	与要素1、2、n相关的IPC分类号			

透

仅供学

专利检索一般方法与步骤

选定检索系统和/
数据库



构建检索式

- ◆ 根据前面确定的检索入口选择合适的检索系统和/或数据库
- ◆ 构建检索式：结合检索目的，构建不同的检索式，包括使用逻辑组配、通配检索、位置检索、范围检索

浏览结果、调整策略

- 检索结果浏览，选择合适的对比文件
- 当结果不能满足要求时调整检索策略—放大或缩小检索范围；减少或增加主题词；减少或增加同义词、近义词；分类号的调整；逻辑关系的调整等

感谢聆听!

国家知识产权局公益讲座

仅供学习交流使用 禁止用于商业用途

国家知识产权局公益讲座

仅供学习交流使用 禁止用于商业用途

国家知识产权局公益讲座

仅供学习交流使用 禁止用于商业用途