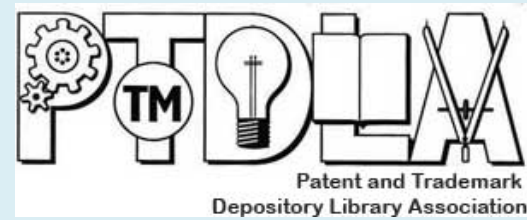


Patent & Trademark Depository Library Association: Current Topics in Intellectual Property

Patent & Trademark Depository Library Program
ALA Annual Conference, New Orleans
25 June 2011

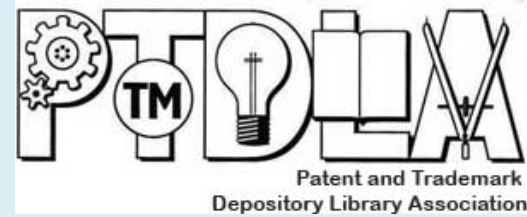
Marian Armour-Gemmen
West Virginia University Libraries

Jared Hoppenfeld
Texas A&M University Libraries



Outline

- Overview of Intellectual Property and Depository Library Program
- Basic Resources for Patent Research
- Changes at USPTO & to the Depository Library Program



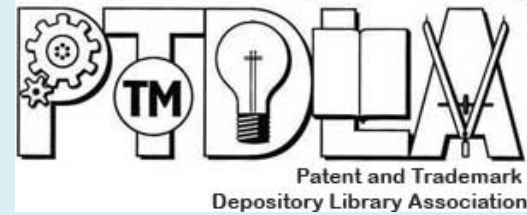
Part II: Basic Resources for Patent Research

Jared Hoppenfeld

Business Librarian, Texas A&M University Libraries

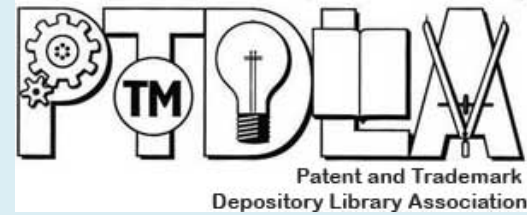
jhoppenf@tamu.edu

@JMHBizLibrarian



I will be covering...

- Seven Step Strategy
- USPTO.gov
- pat2pdf
- Google Patents
- espacenet



ABRAHAM LINCOLN

MANNER OF BOUYING VESSELS

No. 6,469

Patented May 22, 1849

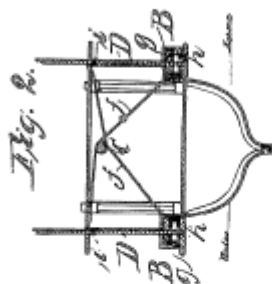
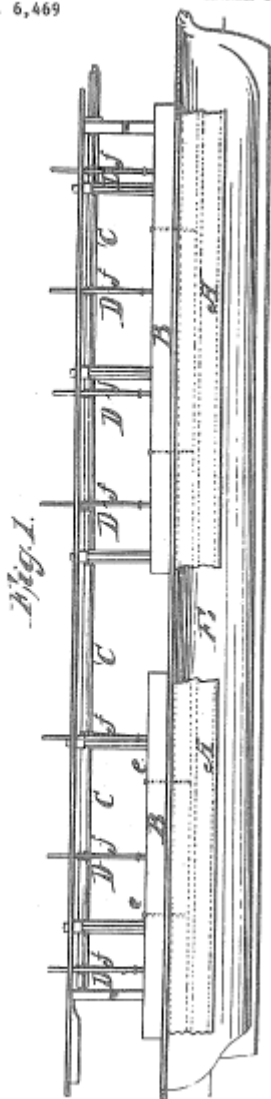


Fig. 3.



To all whom it may concern:

Be it known that I, Abraham Lincoln, of Springfield, in the County of Sangamon, in the State of Illinois, have invented a new and improved manner of combining adjustable buoyant air chambers with a steamboat or other vessel for the purpose of enabling their draught of water to be readily lessened or enabled them to pass over bars, or through shallow water, without discharging their cargoes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification. Similar letters indicate like parts in all the figures.

The buoyant chambers A, A, which I employ, are constructed in such a manner that they can be expanded so as to hold a large volume of air when required for use, and can be contracted, into a very small space and safely secured as soon as their services can be dispensed with.

Fig. 1, is a side elevation of a vessel with the buoyant chambers combined therewith, expanded;

Fig. 2, is a transverse section of the same with the buoyant chambers contracted;

Fig. 3, is a longitudinal section through the centre of the buoyant chambers, and the box which, when contracted, which lower guard of the vessel.

The top *g*, and bottom chamber, is composed of suitable strength and stiff sides and ends of the posed of india-rubber clot water-proof fabric, securely and ends of the top and bottom.

The sides of the chamber and supported centrally shown in Fig. 3, or as *n* combined with them as *n* give them the requisite firmness when expanded.

The buoyant chambers operated as follows: A :

vertical shafts or spars *D, D*, are combined with each of the chambers, as represented in Figs. 2 and 3, to wit: The shafts work freely in apertures formed in the upper sides of the chambers, and their lower ends are permanently secured to the under sides of the chambers: The vertical shafts or spars (*D, D*.) pass up through the top of the boxes *B, B*, on the lower guards of the vessel, and then through its upper guards, or some other suitable support, to keep them in a vertical position.

The vertical shafts (*D, D*.) are connected to the main shaft *C*, which passes longitudinally through the centre of the vessel—just below its upper deck—by endless ropes *f, f*, as represented in Fig. 2: The said ropes, *f, f*, being wound several times around the main shaft *C*, then passing outwards over sheaves or rollers attached to the upper deck or guards of the vessel, from which they descend along the inner sides of the vertical shafts or spars *D, D*, to sheaves or rollers connected to the boxes *B, B*, and thence rise to the main shaft (*C*.) again.

The ropes *f, f*, are connected to the vertical shafts of *2*, as shown in Figs. 1 and 2. To

2

6,469

the buoyant chambers,) may be passed from one to the other in any direction that may be deemed best, and that will least incommode the deck of the vessel; or other mechanical means may be employed as the medium of communication between the main shaft and the buoyant chambers, if it should be found expedient.

I shall generally make the main shaft *C*, in as many parts as there are corresponding pairs of buoyant chambers, so that by coupling the sections of the shaft together, the whole of the chambers can be expanded at the same time, and by disconnecting them, either pair of chambers can be expanded, separately from the others as circumstances may require.

The buoyant chambers may be operated by the power of the steam engine applied to the main shaft *C*, in any convenient manner, or by man power.

Where the guards of a vessel are very high above the water, the boxes *B, B*, for the reception of the buoyant chambers when contracted, may be dispensed with, and the chambers be contracted by drawing them against the under side of the guards. Or, protecting cases may be secured to the under sides of the guards for the reception of the buoyant chambers when contracted.

When it is desired to combine my expandible buoyant chambers with vessels which

have no projecting guards; shelves or cases must be strongly secured to their sides for the reception of the buoyant chambers.

I wish it to be distinctly understood, that I do not intend to limit myself to any particular mechanical arrangement, in combining expandible buoyant chambers with a vessel, but shall vary the same as I may deem expedient, whilst I attain the same end by substantially the same means.

What I claim as my invention and desire to secure by letters patent, is the combination of expandible buoyant chambers placed at the sides of a vessel, with the main shaft or shafts *C*, by means of the sliding spars or shafts *D*, which pass down through the buoyant chambers and are made fast to their bottoms, and the series of ropes and pulleys, or their equivalents, in such a manner that by turning the main shaft or shafts in one direction, the buoyant chambers will be forced downwards into the water and at the same time expanded and filled with air for buoying up the vessel by the displacement of water; and by turning the shaft in an opposite direction, the buoyant chambers will be contracted into a small space and secured against injury.

A. LINCOLN.

Witness:
Z. C. ROBBINS,
H. H. SYLVESTER.



Product Catalog

Locate Libraries

Patent & Trademark Depository Libraries (PTDLs)

- History and Background
- Mission
- Events Schedule
- Tutorials
- PTDL Locations by State

Materials & Services

- News & Notices
- Public Search Facility

Training/Events

Customer Information Services

Seven Step Strategy

Quick Start

[Patent and Trademark Depository Library \(PTDL\)](#) staff are available to provide training on U.S. patent search processes and research tools including the [Cassis DVD-ROM](#) system, the [PubWEST](#) database, and the [USPTO website](#).

Classification

- Brainstorm keywords related to the purpose, use and composition of the invention.
- Look up the words in the [Index to the U.S. Patent Classification](#) to find potential class/subclasses.
- Verify the relevancy of the class/subclasses by using the [Classification Schedule](#) in the [Manual of Classification](#).
- Read the [Classification Definitions](#) to verify the scope of the subclasses and note "see also" references.

Access Full-Text

- Search the [Issued Patents](#) and the [Published Applications](#) databases by "Current US Classification" and access full-text patents and published applications.

Review and References

- Review the claims, specifications and drawings of documents retrieved for relevancy.
- Check all references and note the "U.S. Cl." and "Field of Search" areas for additional class/subclasses to search.



- » [Accessibility](#)
- » [Privacy Policy](#)
- » [Terms of Use](#)
- » [Security](#)

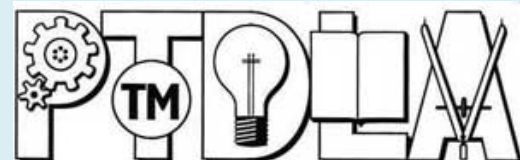
- » [Federal Activities Reform \(FAIR\)](#)
- » [Notification and Employee Anti-Retaliation \(No...](#)

- » [Freedom of Information Act \(FOIA\)](#)
- » [Department of Commerce NoFEAR Act Report](#)
- » [Regulations...](#)

- » [Strategy Targeting Organized Piracy \(STOP!\)](#)
- » [Information Quality Guidelines](#)
- » [Department of Commerce](#)

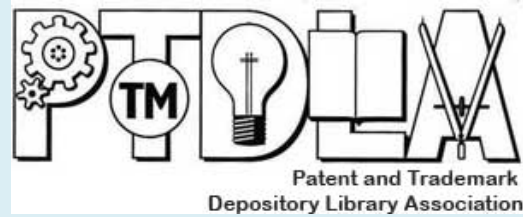


<http://www.uspto.gov/products/library/ptdl/services/step7.jsp>



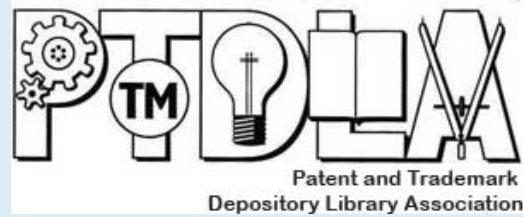
Seven Step Strategy

1. Brainstorm keywords related to the purpose, use and composition of the invention.
2. Look up the words in the [Index to the U.S. Patent Classification](#) to find potential class/subclasses.
3. Verify the relevancy of the class/subclasses by using the Classification Schedule in the [Manual of Classification](#).
4. Read the Classification Definitions to verify the scope of the subclasses and note.



Seven Step Strategy

5. Search the Issued Patents and the Published Applications databases by “Current U.S. Classification” and access full-text patents and published applications.
6. Review the claims, specifications and drawings of documents retrieved for relevancy.
7. Check all references and note the “U.S. Cl.” and “Field of Search” areas for additional class/subclasses to search.



USPTO.gov – Step 2: Index

United States Patent and Trademark Office

Home | Site Index | Search | FAQ | Glossary | Guides | Contacts | eBusiness

PATENTS

Patents > Guidance, Tools, and Manuals > Classification > Index to the USPC

Class Numbers & Titles | Class Numbers Only | USPC Index | International | HELP

Index to the USPC

Index to the United States Patent Classification (USPC) System

Preface to the Index to the USPC

Select the format and section (by letter) ...

Index in HTML

Index in PDF

A B C **D** E F G H I J K L M N O P Q R **S** T U V W X Y Z

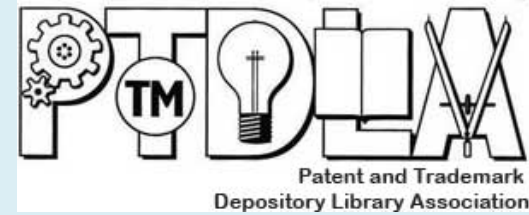
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

KEY: =online business system =fees =forms =help =laws/regulations =definition (glossary)

The Inventors Assistance Center is available to help you on patent matters. Send questions about USPTO programs and services to the USPTO Contact Center (UCC). You can suggest USPTO webpages or material you would like featured on this section by E-mail to the webmaster@uspto.gov. While we cannot promise to accommodate all requests, your suggestions will be considered and may lead to other improvements on the website.

HOME | SITE INDEX | SEARCH | eBUSINESS | HELP | PRIVACY POLICY

Last Modified: 05/27/2011 10:12:45

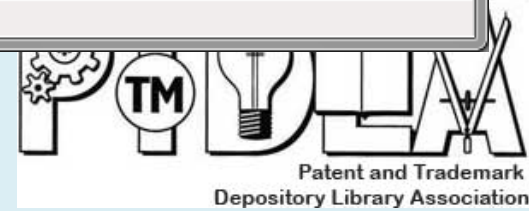
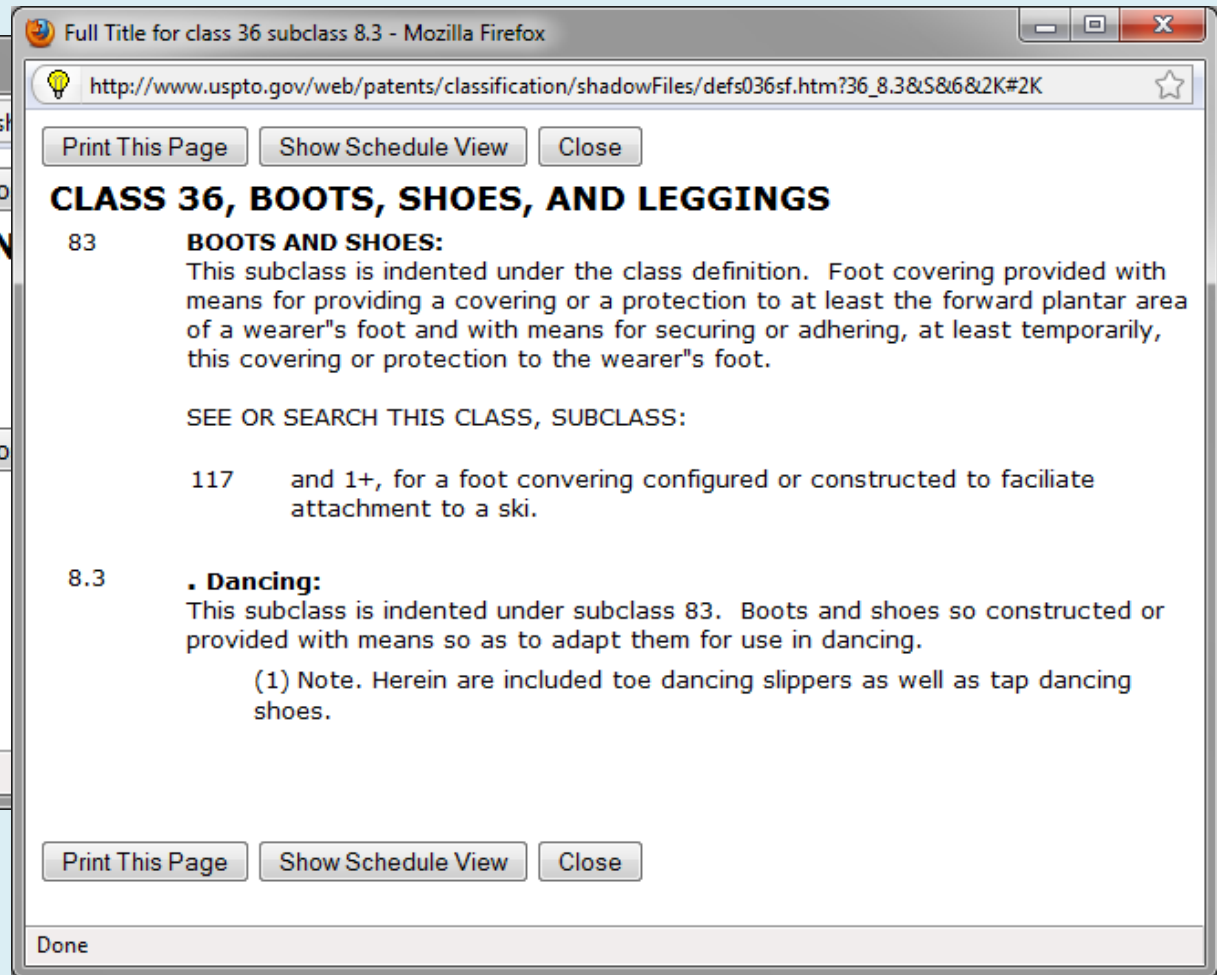
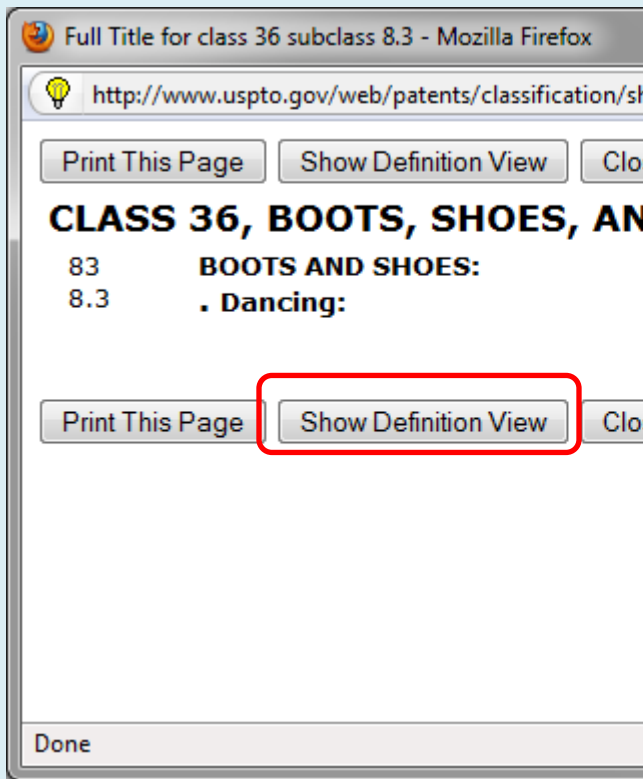


USPTO.gov – Step 3: Manual

| | | 84 / 217 | | | |
|---------------------------------------|---|----------|---|------|----------------------------------|
| Lifted | | | | | |
| Railway truck | | A | P | 8.3 | • Dancing |
| Stove or furnace flue | | A | P | 8.4 | • Fitting |
| Open evaporating pans having | | A | P | 11 | • Moccasins |
| Time controlled | | A | P | 11.5 | • Sandals |
| Weighing scale | | A | P | 4 | • Rubber |
| Zither | | A | P | 9R | • Felt and fabric |
| Damping Diode | - | A | P | 9A | .. Paper |
| With emissive cathode | | A | P | 10 | INSIDE SLIPPERS |
| With thermionic cathode | | A | P | 12 | SOLE-ATTACHING MEANS |
| With two cathodes and anodes | - | A | P | 13 | • Wooden soles |
| Dancing | | A | P | 14 | • Rubber |
| Figure toys | | A | P | 15 | • Detachable soles |
| Shoes | | A | P | 16 | • Outturned uppers |
| Teaching | | A | P | 17R | • Welt connected |
| Dandy Roll | - | A | P | 17A | .. Evaginated |
| Dark | | A | P | 17PW | .. Pre-welt connected |
| Cabinet photography | | A | P | 18 | • Single-faced stitch |
| Lantern with shutter or screens | | A | P | 19R | • Through and through |
| Room | | A | P | 19A | .. Evaginated |
| Illuminators | - | A | P | 19.5 | • Cement only |
| Ventilators | | A | P | 21 | • Seams |
| Darning | | A | P | 22R | • Prepared soles |
| Knitting | | A | P | 22A | .. With reinforcing means |
| Last | - | A | P | 23 | • Fasteners |
| Sewing machines | | A | P | 24 | .. Peg |
| Design | | A | P | 24.5 | INTERFITTED SOLE AND HEEL |
| Elements | - | A | P | 25R | SOLES |
| Weaving | | A | P | 26 | • Fleeced slipper |
| Dart | | A | P | 27 | • Spring heel |
| Design | - | A | P | | |
| Amusement devices | | A | P | | |
| Projector | | A | P | | |
| Projector | | | | | |
| Targets | | | | | |

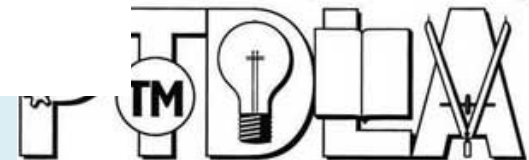


USPTO.gov – Step 4: Definition



USPTO.gov

| | | | | |
|---|---|------|----------------------------------|-----------------------------|
| A | P | 8.3 | • Dancing | |
| A | P | 8.4 | • Fitting | |
| A | P | 11 | • Moccasins | |
| A | P | 11.5 | • Sandals | |
| A | P | 4 | • Rubber | |
| - | A | P | 9R | • Felt and fabric |
| A | P | 9A | • Paper | |
| A | P | 10 | INSIDE SLIPPERS | |
| - | A | P | 12 | SOLE-ATTACHING MEANS |
| A | P | 13 | • Wooden soles | |
| A | P | 14 | • Rubber | |
| A | P | 15 | • Detachable soles | |
| A | P | 16 | • Outturned uppers | |
| - | A | P | 17R | • Welt connected |
| A | P | 17A | • Evaginated | |
| A | P | 17PW | • Pre-welt connected | |
| A | P | 18 | • Single-faced stitch | |
| - | A | P | 19R | • Through and through |
| A | P | 19A | • Evaginated | |
| A | P | 19.5 | • Cement only | |
| A | P | 21 | • Seams | |
| - | A | P | 22R | • Prepared soles |
| A | P | 22A | • With reinforcing means | |
| - | A | P | 23 | • Fasteners |
| A | P | 24 | • Peg | |
| A | P | 24.5 | INTERFITTED SOLE AND HEEL | |
| - | A | P | 25R | SOLES |
| A | P | 26 | • Fleeced slipper | |
| A | P | 27 | • Spring heel | |



USPTO.gov

Searching US Patent Collection...

Results of Search in US Patent Collection db for:

CCL/"36/8.3": 202 patents.















Hits 1 through 50 out of 202

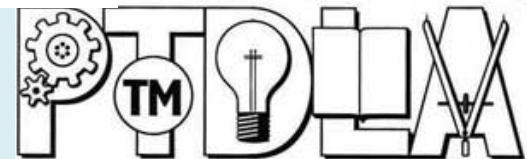
Next 50 Hits

Jump To

Refine Search

CCL/"36/8.3"

| PAT. NO. | Title |
|------------------------------|---|
| 1 7,954,176 |  Foot prosthesis to enhance the appearance of a dancer's foot |
| 2 7,934,325 |  Gymnastics footwear |
| 3 7,926,203 |  Dance footwear |
| 4 7,921,579 |  Apparatus and method for adding securement means to a pointe shoe |
| 5 D634,103 |  Dance footwear |
| 6 7,900,375 |  Ballet pointe shoes |
| 7 7,856,739 |  Protective foot covering |
| 8 7,847,143 |  Dancer's protective foot pad |
| 9 7,819,721 |  Interchangeable decorative accessories for personal adornment |
| 10 7,765,718 |  Dance shoe with moldable foot compartment |
| 11 7,730,634 |  High-heeled jazz dancing and character dancing shoe |
| 12 7,707,673 |  System and method for hardening ballet shoes |
| 13 7,685,740 |  Dance shoe |
| 14 7,685,739 |  Convertible dance shoe |



Patent and Trademark
Depository Library Association

USPTO.gov



United States Patent and Trademark Office

An Agency of the Department of Commerce

[Home](#) | [Help](#) | [Site Index](#) | [Contact Us](#)

SEARCH:

HOW DO I:

[About USPTO](#) [Patents](#) [Trademarks](#) [IP Law & Policy](#) [Products & Services](#) [Careers](#) [Inventors](#) [News & Notices](#) [eBusiness/Alerts](#) [FAQs](#) [For Kids](#)

The USPTO and Berkeley



Improving the USPTO ~ District Court Interface

Organized by:
the United States Patent & Trademark Office and
the Berkeley Center for Law & Technology

Officials from the USPTO, district court judges, academic experts and experienced practitioners will examine the existing contours of the interface between the USPTO and the courts to discuss proposed improvements that could make patent prosecution and litigation more efficient and effective, June 7.

[» Read more](#)



USPTO Self Service

Information Services and Data Products:



Patents

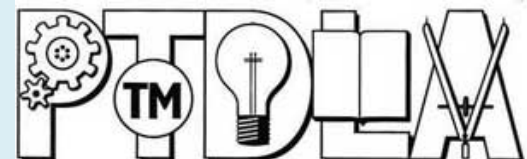
- 1 Patents Process**
Visit the Patents Process page
- 2 Search**
Search patent databases
- 3 View Fee Schedule**
Check on the current fees and information related to the patent process
- 4 File Online**
Apply for a patent using the Electronic Filing System (EFS-Web)

Trademarks

- 1 Trademark Basics: Start Here**
View How-To Videos; FAQs; Basic Facts Booklet; Processing Timelines; ID Manual; TMEP
- 2 Search Marks**
Search pending and registered marks (TESS)
- 3 File Forms Online**
File application and other documents online (TEAS)
- 4 Check Status**
Check the status of an application or

IP Law & Policy

- 1 IP Policy and Enforcement**
USPTO leads efforts to develop and strengthen both domestic and international IP protection
- 1 Training and Education**
The Global IP Academy (GIPA) offers IP related programs around the world
- 1 Office of the General Counsel**
General Counsel, Office of the Solicitor, Office of General Law, Office of Enrollment and Discipline



Patent and Trademark
Depository Library Association

USPTO.gov



United States Patent and Trademark Office
An Agency of the Department of Commerce

Patent Full-Text Databases

Home Page » Patents

- Patent Process
- Patent Classification
- Patent Forms
- Statistics
- Electronic Business Center
- Patent Laws, Regulations, Policies & Procedures
- Resources and Guidance
- Office of Data Management
- Announcements
- Initiatives & Events
- International Protection
- Employee Locator
- Contact Patents

Patents

What is a patent?

A patent is an intellectual property right granted by the exclude others from making, using, offering for sale, or invention into the United States" for a limited time in ex granted.

This right was established over 200 years ago in Article 1 Progress of Science and useful Arts, by securing for limite respective Writings and Discoveries."

General Information Concerning Patents [HTML]

There are three types of patents

- **Utility patents** may be granted to anyone who manufacture, or composition of matter, or any new a
 - See here for the Process for Obtaining a UT
- **Design patents** may be granted to anyone who manufacture; and
- **Plant patents** may be granted to anyone who variety of plant.

Frequently used online tools and informati

Legal

- Patent Related Notices
- Examination Registration
- MPEP
- PCT Legal
- Boards and Counsel

Education

- About US
- iCreatM
- InventNo
- USPTO fo
- National I Museum



e-OfficeAction



Pat. 3.18; S

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](#)

AppFT: Applications

Published since March 2001

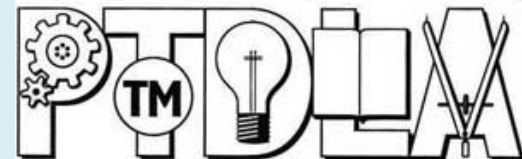
- [Quick Search](#)
- [Advanced Search](#)
- [Number Search](#)

[View Full-Page Images](#)

- [AppFT Help Files](#)
- [AppFT Status, History](#)

[Report Problems](#)

<http://patft.uspto.gov/>



Patent and Trademark
Depository Library Association

USPTO.gov

United States Patent and Trademark Office

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

Patents > Guidance, Tools, and Manuals > Classification Main Menu

Class Numbers & Titles | Class Numbers Only | **Index to the U.S. Patent Classification (USPC) System** | International | HELP | Office of Patent Classification

Site Data is Current as of April 2011.

A. Access Classification Info by Class/subclass HELP

1. Enter a US Patent Classification...
 /
Class (required)/Subclass (optional)
e.g., 704/1 or 482/1
2. Select what you want...
 - Class Schedule (HTML)
 - Printable Version of Class Schedule (PDF)
 - Class Definition (HTML)
 - Printable Version of Class Definition (PDF)
 - US-to-IPC8 Concordance (HTML)
 - US-to-IPC8 Concordance (PDF)
 - US-to-Locarno Concordance
3.

B. Classification Information

1. Index to the U.S. Patent Classification System (**Preface**)
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
2. [Classification Orders](#)
3. [Classification Orders Index](#)
4. [Classes Under Reclaim](#)
5. [Classes Within the U.S. Classification System \(Arranged by Related Subjects\)](#)
6. [Classes Arranged Numerically With Art Unit and Search Room Locations](#)
7. [Classes Arranged in Alphabetical Order](#)
8. [Classes Arranged by Art Unit](#)
9. [Information on E-Subclasses](#)

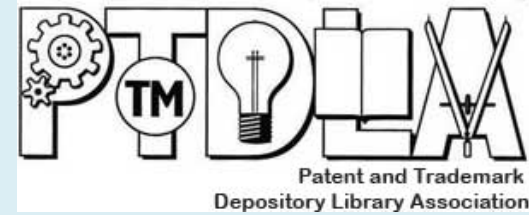
C. Search USPTO

Look in:

Search for:

Index to the U.S. Patent Classification (USPC) System

1. Click the Search USA.gov logo below to initiate a general search at USA.gov:
2. Click the Advanced Search USA.gov link below to initiate an advanced search at USA.gov:
[Advanced Search USA.gov](#)



USPTO.gov



United States Patent and Trademark Office

PATENTS

[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)

[Patents](#) > [Guidance, Tools, and Manuals](#) > [Classification](#) > [Index to the USPC](#)

[Class Numbers & Titles](#) | [Class Numbers Only](#) | [USPC Index](#) | [International](#) | [HELP](#) | [Office of Patent Classification](#)

[Index to the USPC](#)

Index to the United States Patent Classification (USPC) System

[Preface to the Index to the USPC](#)

Select the format and section (by letter) ...

[Index in HTML](#)

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

[Index in PDF](#)

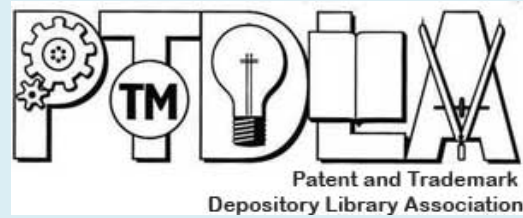
[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

KEY: =online business system =fees =forms =help =laws/regulations =definition (glossary)

The [Inventors Assistance Center](#) is available to help you on patent matters. Send questions about USPTO programs and services to the [USPTO Contact Center \(UCC\)](#). You can suggest USPTO webpages or material you would like featured on this section by E-mail to the webmaster@uspto.gov. While we cannot promise to accommodate all requests, your suggestions will be considered and may lead to other improvements on the website.

[HOME](#) | [SITE INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [HELP](#) | [PRIVACY POLICY](#)

Last Modified: 05/27/2011 10:12:45





United States Patent and Trademark Office

An Agency of the Department of Commerce

[Home](#) | [Help](#) | [Site Index](#) | [Contact Us](#)

SEARCH:

HOW DO I: - Select an Option -

[About USPTO](#) [Patents](#) [Trademarks](#) [IP Law & Policy](#) [Products & Services](#) [Careers](#) [Inventors](#) [News & Notices](#) [eBusiness/Alerts](#) [FAQs](#) [For Kids](#)

[Home Page](#) » [Products & Services](#) » [Locate Libraries](#) » [Patent &](#)



United States Patent and Trademark Office

An Agency of the Department of Commerce

Patent Full-Text Databases

[Product Catalog](#)

Locate Libraries

Patent & Trademark Depository Libraries (PTDLs)

- History and Background
- Mission
- Events Schedule
- Tutorials
- PTDL Locations by State

Materials & Services

- News & Notices
- Public Search Facility

[Training/Events](#)

[Customer Information Services](#)

Sev

Qui

Patent

resear

Class

Acce

5

fu

Revis

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](#)

AppFT: Applications

Published since March 2001

- [Quick Search](#)
- [Advanced Search](#)
- [Number Search](#)

[View Full-Page Images](#)

- [AppFT Help Files](#)
- [AppFT Status, History](#)

[Report Problems](#)

<http://patft.uspto.gov/>

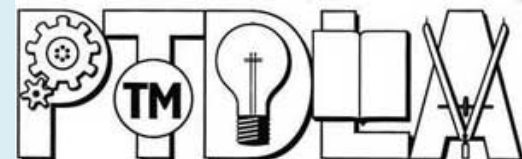


- [Accessibility](#)
- [Privacy Policy](#)
- [Terms of Use](#)
- [Security](#)

Employee Anti-Retaliation Act
Retaliation (NoFEAR) Act



» [Department of Commerce](#)



Patent and Trademark
Depository Library Association

USPTO.gov – Step 5: Search

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

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

Data current through June 14, 2011.

Query [\[Help\]](#)

pn/5255452

Examples:

ttl/(tennis and (racquet or racket))

isd/1/8/2002 and motorcycle

in/newmar-julie

Query [\[Help\]](#)

Term 1:

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

1976 to present [full-text]

Search

Reset

Term 2:

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

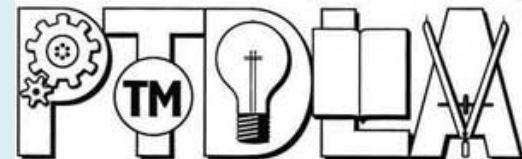
1976 to present [full-text]

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.

When searching for

| Field Code | Field Name | Field Code | Field Name |
|------------|--|------------|-----------------------------------|
| PN | Patent Number | IN | Inventor Name |
| ISD | Issue Date | IC | Inventor City |
| TTL | Title | IS | Inventor State |
| ABST | Abstract | ICN | Inventor Country |
| ACLM | Claim(s) | LREP | Attorney or Agent |
| SPEC | Description/Specification | AN | Assignee Name |
| CCL | Current US Classification | AC | Assignee City |
| ICL | International Classification | AS | Assignee State |
| APN | Application Serial Number | ACN | Assignee Country |
| APD | Application Date | EXP | Primary Examiner |



Patent and Trademark
Depository Library Association

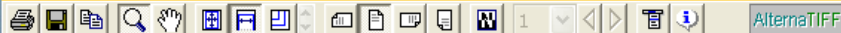
USPTO.gov



United States Patent and Trademark Office

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

Patent Number: US005255452 Section: Front Page 1 of 8 pages Help



Full Text
Help

Go to Page:

 Go

Sections:

- Front Page
- Drawings
- Specifications
- Claims

United States Patent [19]

Jackson et al.

US005255452A

[11] Patent Number: 5,255,452

[45] Date of Patent: Oct. 26, 1993

[54] METHOD AND MEANS FOR CREATING ANTI-GRAVITY ILLUSION

[75] Inventors: Michael J. Jackson, Los Angeles; Michael L. Bush; Dennis Tompkins, both of Hollywood, Calif.

[73] Assignee: Triumph International, Inc., Los Angeles, Calif.

[21] Appl. No.: 905,479

[22] Filed: Jun. 29, 1992

[51] Int. Cl.⁵ A43B 5/00; A43B 3/00

[52] U.S. Cl. 36/113; 36/1; 36/136; 36/80; 36/132

[58] Field of Search 36/1, 80, 103, 113, 36/114, 131, 132, 136; 482/70, 71, 105

[56] References Cited

U.S. PATENT DOCUMENTS

1,059,284 4/1913 Dennis 36/114
2,114,790 4/1938 Venables 36/132
2,473,099 6/1949 Hatch 36/1

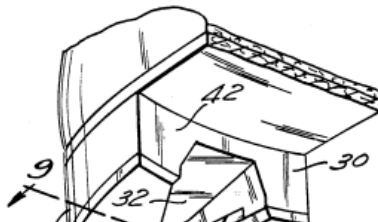
3,889,399 6/1975 Emrich 36/1
4,445,287 5/1984 Garcia 36/114
4,538,480 9/1985 Trindle 36/131
4,645,466 2/1987 Ellis 36/132
4,762,019 8/1988 Beyl 36/131
4,882,858 11/1989 Signori 36/131
5,042,173 8/1991 Blizzard et al. 36/113

Primary Examiner—Steven N. Meyers
Assistant Examiner—M. Denise Patterson
Attorney, Agent, or Firm—Drucker & Sommers

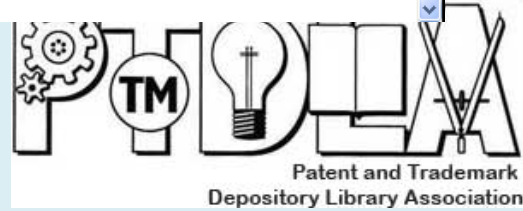
[57] ABSTRACT

A system for allowing a shoe wearer to lean forwardly beyond his center of gravity by virtue of wearing a specially designed pair of shoes which will engage with a hitch member movably projectable through a stage surface. The shoes have a specially designed heel slot which can be detachably engaged with the hitch member by simply sliding the shoe wearer's foot forward, thereby engaging with the hitch member.

13 Claims, 4 Drawing Sheets



Only prints
one page
at a time



pat2pdf

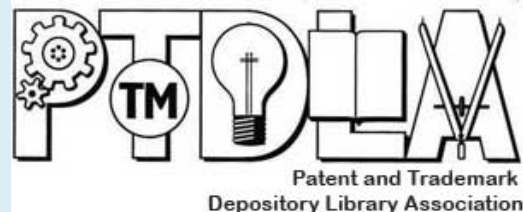
www.pat2pdf.org - A FREE patent search tool

Download U.S. patents (in PDF) and more!

To download a copy of a patent from the U.S. Patent and Trademark Office, please enter your request in the format below.

| For: | Enter: |
|-----------------------------|---|
| US Utility Patent | 5000000 or 5,123,456 |
| US Pre-Grant Publication | 20040123456 [you may need to add a "0" after the year.] |
| US Design Patent | d50000 |
| US Plant Patent | pp05000 [add leading 0's if needed] |
| US Reissue | re34343 |
| US Statutory Invention Reg. | h1234 |
| Multiple Requests | Separate with a semicolon: 12345; pp6000 |

Enter Number(s):



pat2pdf

www.pat2pdf.org - A FREE patent search tool



Scan, Find &
Update All Drivers

- ✓ Windows 7
- ✓ Windows Vista
- ✓ Windows XP/2000



Start Download

Retrieving patent 1 of 1: 5255452

Patent contains 8 pages.

Retrieving page 1 of 8... OK.

Retrieving page 2 of 8... OK.

Retrieving page 3 of 8... OK.

Retrieving page 4 of 8... OK.

Retrieving page 5 of 8... OK.

Retrieving page 6 of 8... OK.

Retrieving page 7 of 8... OK.

Retrieving page 8 of 8... OK.

Please download your patent PDF here:

- [5255452](#)

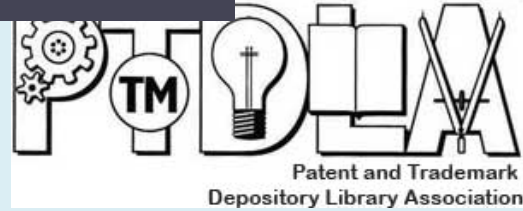
Look up another patent:

Number:

Fetch

Reset

[See a list of search options](#)



pat2pdf

Look! You can print the entire patent at one time!

50.5%

U.S. Patent Oct. 26, 1993 Sheet 2 of 4 5,255,452

United States Patent
Jackson et al.

[54] METHOD AND MEANS FOR ANTI-GRAVITY ILLUSION
[75] Inventors: Michael J. Jackson
Michael L. Reed
both of Hollywood, Calif.
[73] Assignee: Triumph Internat'l, Inc.,
Los Angeles, Calif.
[21] Appl. No.: 905,479
[22] Filed: Jan. 29, 1992
[51] Int. Cl. G06F 03/00
[52] U.S. Cl. 36/114, 131, 132
[58] Field of Search: 36/114, 131, 132
[56] References Cited:
U.S. PATENT DOCUMENTS
1,655,284 4/1913 Dennis
2,114,790 4/1918 Venables
2,473,099 6/1949 Hays




Fig. 4

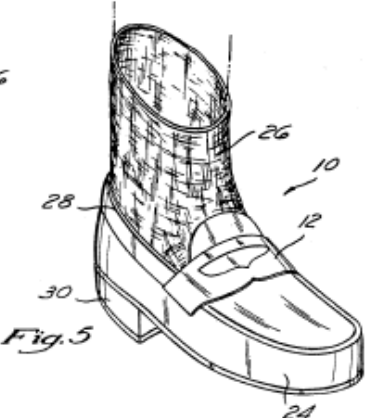


Fig. 5

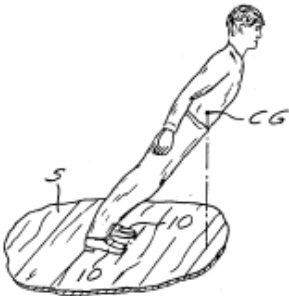


Fig. 6


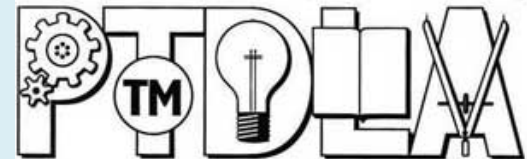


Fig. 14

highlight all Match case Re



Patent and Trademark
Depository Library Association



Google Patents

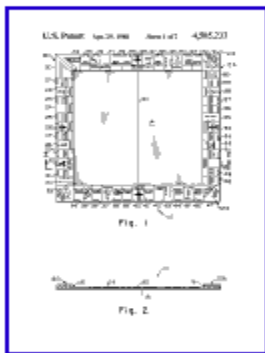
<http://www.google.com/patents>



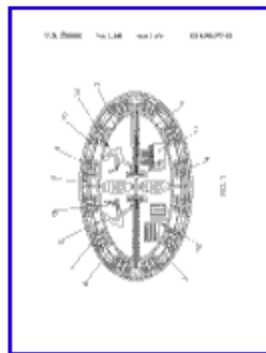
Search Patents

[Advanced Patent Search](#)

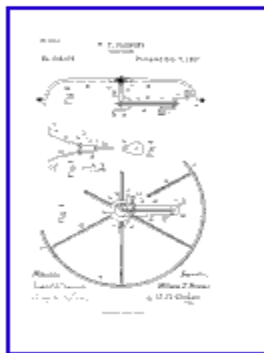
Search over 7 million patents.



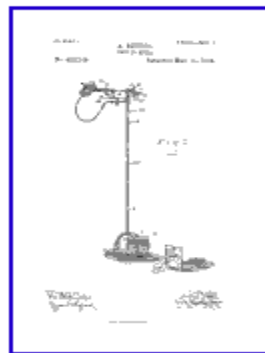
[Monopoly](#)



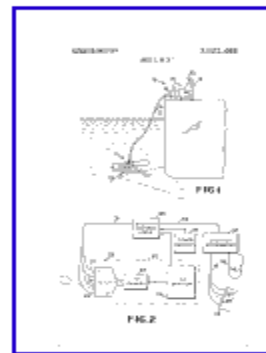
[Space vehicle](#)



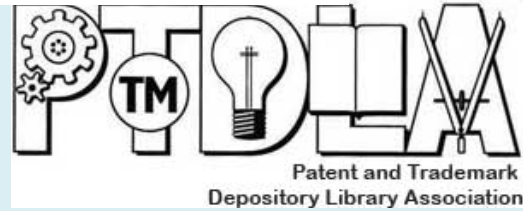
[Unicycle](#)



[Dental drill](#)



[Liquid crystal stereoscopic television](#)



Google Patents

Look! You can print the entire patent at one time!

Google patents Search Patents [Advanced Patent Search](#)

Method and means for creating anti-gravity illusion Michael J. Jackson et al

Overview
Abstract
Drawing
Description
Claims

Search within this patent

Patent number: 5255452
Filing date: Jun 29, 1992
Issue date: Oct 26, 1993

US005255452A

United States Patent [19]

Jackson et al.

[11] Patent Number: **5,255,452**
[45] Date of Patent: **Oct. 26, 1993**

[54] **METHOD AND MEANS FOR CREATING ANTI-GRAVITY ILLUSION** 3,889,399 6/1975 Emrich 36/1
4,445,287 5/1984 Garcia 36/114
4,538,480 9/1985 Trindle 36/131
4,645,466 2/1987 Ellis 36/132
4,762,019 8/1988 Beyl 36/131
4,882,858 11/1989 Signori 36/131
5,042,173 8/1991 Blizzard et al. 36/113

[75] Inventors: **Michael J. Jackson**, Los Angeles;
Michael L. Bush; **Dennis Tompkins**,
both of Hollywood, Calif.

[73] Assignee: **Triumph International, Inc.**, Los Angeles, Calif.

[21] Appl. No.: **905,479**
[22] Filed: **Jun. 29, 1992**

[51] Int. Cl.⁵ **A43B 5/00**; A43B 3/00
[52] U.S. Cl. **36/113**; 36/1;
36/136; 36/80; 36/132

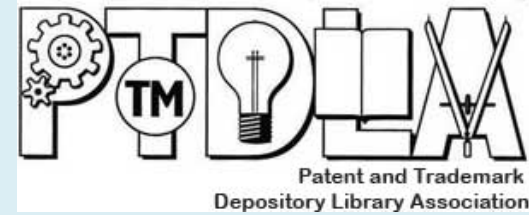
[58] Field of Search 36/1, 80, 103, 113,
36/114, 131, 132, 136; 482/70, 71, 105

[56] **References Cited**
U.S. PATENT DOCUMENTS
1,059,284 4/1913 Dennis 36/114
2,114,790 4/1938 Venables 36/132
2,473,099 6/1949 Hatch 36/1

Primary Examiner—Steven N. Meyers
Assistant Examiner—M. Denise Patterson
Attorney, Agent, or Firm—Drucker & Sommers

[57] **ABSTRACT**
A system for allowing a shoe wearer to lean forwardly beyond his center of gravity by virtue of wearing a specially designed pair of shoes which will engage with a hitch member movably projectable through a stage surface. The shoes have a specially designed heel slot which can be detachably engaged with the hitch member by simply sliding the shoe wearer's foot forward, thereby engaging with the hitch member.

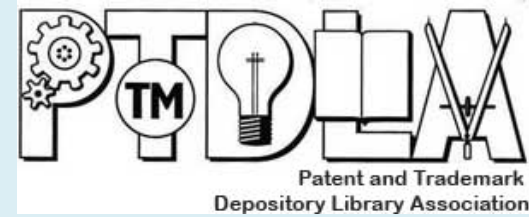
13 Claims, 4 Drawing Sheets



Espacenet



- e-spas-net (not Eee-space-net)
- <http://worldwide.espacenet.com/>
- Foreign patent searching



Espacenet



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

SmartSearch

Quick search

Advanced search

Number search

Classification search

SmartSearch

SmartSearch: **i**

Siemens EP 2007

Clear

Search

Maintenance news

Scheduled maintenance

Please be advised that the Espacenet worldwide back-end was unavailable from 05:00 to 06:10CET on the 17th of June. We apologise for the inconvenience Espacenet may have outages on the following dates and times:
June 17th 18:00-19:00CET
→ [read more...](#)

News flashes

Latest updates

Related links

Welcome to the new look Espacenet.

Numerically, this is actually version 5 but we don't really know what happened to version 4! Although it looks radically different, Espacenet v.5 delivers the same quality document search service as its predecessor. You'll see that the user interface has been completely redesigned, but this is more than just a cosmetic face-lift. We've also taken the chance to improve the lay-out, usability, ergonomics, and navigation, using contemporary design criteria, in consultation with the user community. You'll also notice the new look Espacenet logo

But new functions and features haven't been forgotten either. In v.5 first release we've included an export-to-Excel function, RSS feeds, breadcrumb navigation, query history, amongst others. These features have been developed and implemented after collecting feedback from you, the users, as always.

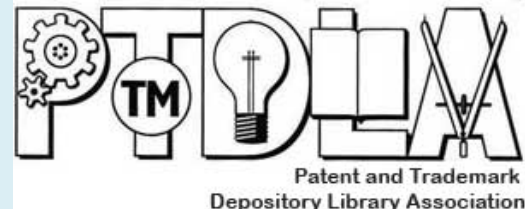
For a limited period, v.5 Espacenet will run in parallel with the legacy systems at ep.espacenet.com and v3.espacenet.com. to enable users to become familiar with the new Espacenet v.5. However we expect to turn off the legacy systems in one or two months' time. We recommend that you bookmark the new URLs now. If you're one of the 90% of Espacenet users who access the service directly: <http://worldwide.espacenet.com/> is the URL to remember.

National offices will gradually adopt and customise the new GUI for their own Espacenet instances.

We hope you enjoy searching with the new Espacenet v.5. We thrive on feedback and we'd like to hear yours - tell us what you think about the new Espacenet GUI.

Write to espacenet@epo.org using the subject GUI

We're waiting to hear from you.



Espacenet



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

SmartSearch

Quick search

Advanced search

Number search

Classification search

Search the European classification

Find classification(s) for keywords

Search

View section [Index](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [Y](#)

A ▶

Find description for a symbol

Search

Quick help

- [What is the European classification system?](#)
- [How do I enter a classification symbol?](#)
- [Can I retrieve a classification using keywords?](#)

HUMAN NECESSITIES

PERFORMING OPERATIONS; TRANSPORTING

CHEMISTRY; METALLURGY

TEXTILES; PAPER

FIXED CONSTRUCTIONS

MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS

PHYSICS

ELECTRICITY

GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-OVER TECHNOLOGIES

SPANNING OVER SEVERAL SECTIONS OF THE IPC [N0403] [M1103]

A

B

C

D

E

F

G

H

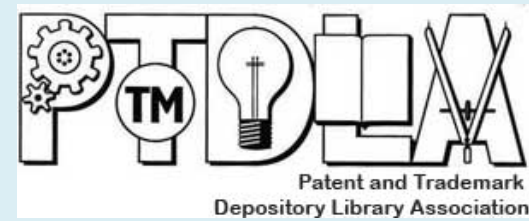
Y

show notes

Copy to search form

Clear

Copy



Espacenet

| |
|------------------------|
| SmartSearch |
| Quick search |
| Advanced search |
| Number search |
| Classification search |

Quick help

- [How many terms can I enter per field?](#)
- [Can I search with a combination of words?](#)
- [Can I use truncation or wildcards?](#)
- [How do I enter publication, application, priority and NPL reference numbers?](#)
- [What is the difference between the IPC and the ECLA?](#)
- [What are the valid date formats?](#)

Related links

Advanced search

1. Database

Select the database in which you wish to search: **i**

Worldwide - full collection of published patent applications from 80+ countries

2. Search terms

Enter keywords in English - ctrl-enter expands the field you are in

Keyword(s) in title: **i** plastic and bicycle

Keyword(s) in title or abstract: **i** hair

Publication number: **i** WO2008014520

Application number: **i** DE19971031696

Priority number: **i** WO1995US15925

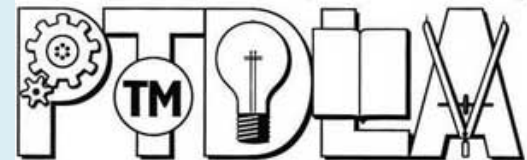
Publication date: **i** yyyyymmdd

Applicant(s): **i** Institut Pasteur

Inventor(s): **i** Smith

European Classification (ECLA): **i** F03G7/10

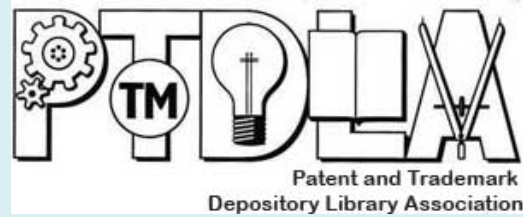
International Patent Classification (IPC): **i** H03M1/12



Patent and Trademark
Depository Library Association

Summary

- **USPTO.gov:**
 - Best bet
 - Classification searching
- **pat2pdf:**
 - Quick P# search
 - Print all pages at once
- **Google Patents:**
 - Familiar but not comprehensive
 - No classification manual
- **Espacenet:**
 - Foreign patent searching



Questions?

Jared Hoppenfeld
Business Librarian, Texas A&M University Libraries

jhoppenf@tamu.edu

@JMHBizLibrarian

