

Ricerca dello Stato dell'Arte Brevettuale

Giuseppe Conti

Network per la Valorizzazione della Ricerca
Università della Calabria
2 ottobre 2003



INDICE

Introduzione: perchè effettuare una ricerca brevettuale?

Strumenti e metodologie: analisi di banche dati brevettuali

Case study: esempi di ricerca



INDICE

Introduzione: perchè effettuare una ricerca brevettuale?

Strumenti e metodologie: analisi di banche dati brevettuali

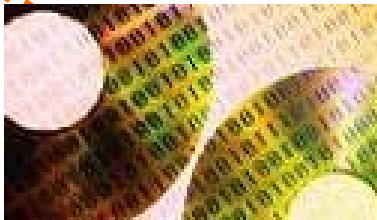
Case study: esempi di ricerca

La SOCIETA' della CONOSCENZA

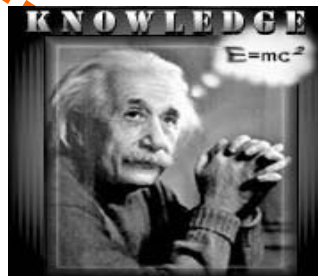
DATI



INFORMAZIONI



CONOSCENZA



AZIONI



RISULTATI



PERCHE' effettuare una ricerca?

Accessibilità

- Formato universale e sistema di classificazione internazionale
- Strumenti moderni di accesso (CD-ROM, Banche dati, Internet)

Concentrazione

- Collezioni complete presso l'UIBM e EPO
- Oltre 45 milioni di documenti appartenenti a tutti i campi della tecnica

Contenuto

- L' 80% dell'informazione contenuta nel brevetto non è disponibile in nessun altro documento
- Forma standardizzata

Aggiornamento

- Informazione utile e completa su una materia (in 18 mesi)
- 1 milione di nuovi documenti all'anno



INDICE

Introduzione: perchè effettuare una ricerca brevettuale?

Strumenti e metodologie: analisi di banche dati brevettuali

Case study: un esempio di ricerca

PROCEDURE DI RICERCA

Concetti innovativi	Criteri di Ricerca	Perfezionamento Ricerca
Concetti caratterizzanti Definire parole chiave Trovare sinonimi	Ricerca per parole chiave Utilizzare caratteri speciali Determinare classi IPC	Ampliamento ricerca su classi IPC Ricerca per Titolare Ricerca per Inventore

Valutazioni

- (1) Individuare la novità e attività inventiva
- (2) Direzione la ricerca verso nuove soluzioni
- (3) Definire l'ambito di protezione del nuovo brevetto
- (4) Analizzare potenziali licenziatari/concorrenti



MODALITA' di RICERCA

Campi ricercabili

N° di pubblicazione (A domande, B brevetti concessi)

N° di domanda

N° di priorità

Data di pubblicazioni

Depositante

Inventore

Classificazione brevettuale internazionale

Titolo

Tutto testo



Sezioni	Classi, sottoclassi	Gruppi
A: Necessità umane B: Trasporto C: Chimica, Metallurgia D: Materiale tessile, carta E: Costruzioni F: Ing. Meccanica, illumin G: Fisica H: Elettricità	A 63: Sport, giochi, divertimenti A63 H: Giocattoli... . . . B65: Trasporto, imballaggio, maneggiamento materiale B65 B: Macchine, mezzi per imballaggio...	A63H 33/00 Altri giocattoli A63H 33/02 Cerchi, bastoncini... . . . B65B 25/00 Imballaggio di altri articoli che mostrano problemi particolari



Individuare il settore



Definire l'applicazione industriale



Selezionare il prodotto

I PRINCIPALI PRODUTTORI DI DATABASE

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IFI Claims Patent Service

European Patent Office,
PlusPat (Questel)

CAS Chemical Abstract Service

The screenshot displays a web browser window with several overlapping website banners and navigation menus. The top banner is for Thomson Derwent, featuring the company logo and the word 'DERWENT'. Below it is a banner for IFI Claims Patent Services, which includes the IFI logo and the text 'CLAIMS Patent Services THE PATENT RESEARCH EXPERTS'. A navigation bar below this contains links: Home, About IFI, New, Database Info, Other Products, Search Resources, Demos/Training, and Contacts. The next banner is for Questel Orbit, part of the Intellectual Property Group, with a search bar and the tagline 'Your Partner in Intellectual Property'. Below this is the CAS Chemical Abstract Service banner, featuring the CAS logo and the text 'A division of the American Chemical Society'. A navigation bar below the CAS banner includes links: Products, Customer Service, About CAS, What's New, and CAS Learning Center. The main content area of the CAS banner includes the text 'CAS... we are scientists, creating and delivering the most complete and effective digital information environment for scientific research and discovery.' and a list of services: SciFinder Scholar, STN on the Web, STN, STN Express with Discover!, and STN Easy. A sidebar on the right lists 'Substance Database Information' with links to CAS Registry, Chemical Reactions, Commercially Available Chemicals, Compounds Claimed in Patents, and Regulated Chemicals Information. The bottom of the sidebar mentions 'Science in the News'.

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Whether you are:

- beginning a research project
- looking for prior art in assessing patentability
- uncovering information on other industry participants
- providing research support to key decision makers

Substance Database Information

- CAS Registry
- Chemical Reactions
- Commercially Available Chemicals
- Compounds Claimed in Patents
- Regulated Chemicals Information

Science in the News

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www.patentblatt.de/eng/



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TTO N° brevetti < 5/anno
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A PAGAMENTO

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- + Ampiezza DB
- + Servizi aggiuntivi
 - albero citaz.
 - licenze
 - organigramma applicant

TTO con alto numero brevetti

ESP@CENET

The screenshot displays the ESP@CENET website, which is part of The European Patent Office. The interface is divided into two main sections: a left sidebar with navigation icons and a main content area.

Left Sidebar:

- Navigation icons: Home, Search, Documents, etc.
- Quick Searches** (in the esp@cenet worldwide database):
 - Simple Text**: Type one or more words in English eg. plastic bicycle. Includes a search box and a "Search" button.
 - View a patent application**: Type the number eg. EP234567. Includes a search box and a "Go" button.
 - Company name search**: Type the name(s) eg. pasteur institut. Includes a search box and a "Search" button.
- Use the search:**
 - [The European Patent Office](#)
 - [The World Intellectual Property Organization](#)
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 - [ClassPat](#)

Main Content Area:

The European Patent Office

Search in patents throughout the world.
Use the form below to enter your search criteria

Search criteria fields:

- Title**: eg. Hair
- Title or Abstract**: eg. Angstrom
- Publication Number**: eg. WO9905428
- Application Number**: eg. DE19971031696
- Priority Number**: eg. WO1995US15925
- Publication Date**: eg. 19970121
- Applicant**: eg. Motorola
- Inventor**: eg. Smith
- EC Classification**: eg. C07H15/04D
- IPC Classification**: eg. H03M1/12

Buttons: **Search**, **Clear**

Footer: Network per la Valorizzazione della Ricerca - Università della Calabria - 2 ottobre 2003



Data supplied



• PATENT ABSTRACTS OF JAPAN vol. 9, no. 34
(M-357)(1757) 14 February 1985 & JP-A-59 176
165 (YAMAHA) 5 October 1984

B3 esp@cenet - Facsimile image display EP0576409 - Microsoft Internet Explorer

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Indirizzo <http://l2.espacenet.com/espacenet/bnsviewer?CY=ep&LG=en&DB=EPD&PN=EP0576409&ID=EP+++0576409A1+> Vai

Biblio Desc Claims Drawing S.R. Return

1/12 - Biblio

19  **Europäisches Patentamt**
European Patent Office
Office européen des brevets

11 Publication number : **0 576 409 A1**

12 **EUROPEAN PATENT APPLICATION**

21 Application number : **93850113.7**

51 Int. Cl.⁵ : **G06F 15/78, G06F 12/06, G06F 9/46**

22 Date of filing : **25.05.93**

30 Priority : **28.05.92 US 890748**

43 Date of publication of application : **29.12.93 Bulletin 93/52**

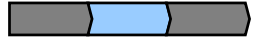
84 Designated Contracting States : **AT BE CH DE DK ES FR GB GR IT LI NL SE**

71 Applicant : **Hughes Aircraft Company**
7200 Hughes Terrace P.O. Box 45066
Los Angeles, California 90045-0066 (US)

72 Inventor : **Yehushua, Moshe**
4215 Karenshue Avenue
San Diego, Calif. 92122 (US)
Inventor : **Avis, Graham**
13002 Maritime Place
San Diego, Calif. 92130 (US)
Inventor : **Ratzel, John**
12823 Pimpernel Way
San Diego, Calif. 92129 (US)
Inventor : **Tarolli, Edward**
1232 Grand Avenue
San Diego, Calif. 92109 (US)

74 Representative : **Jörneld, Bo et al**
1 A Smith & Co. KG, P.O. Box 6407

163% 1 di 1 213,1 x 288,6 mm



CASE STUDY

CASO

Proviamo a cercare brevetti con telecamere simili a quelle descritte nel seguente articolo della BBC:

"I medici stanno utilizzando telecamere che s'introducono come una pillola per scoprire malattie dello stomaco del paziente. Gli endoscopi capsula, della grandezza di una gomma, trasmettono informazioni ad un cinturone che salva le immagini. Le telecamere s'utilizzano nella sala d'endoscopia del Bristol's Southmead Hospital. I trasmettitori incorporati nelle pillole inviano mille immagini a colori all'unità speciale incorporata nel cinturone. Al punto culminante del percorso, le immagini si scaricano sul computer dove possono essere analizzate."

RICERCA

Provare ad unire brevetti relazionati con questo tipo di "telecamera pillola " usata come endoscopio. Si può prestare attenzione al fatto che appare un marchio sull'immagine dell'articolo della BBC e che potrà aiutarci a trovare il brevetto in questione



CASE STUDY

Soluzione

Innanzitutto si dovrà esprimere l'oggetto della ricerca con una serie di concetti tecnici combinati, caratteristiche tecniche comuni che possono essere trovate nella descrizione dell'invenzione.

Nel nostro caso:

1. Telecamera, immagine
2. in vivo, inghiottire

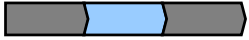
La combinazione delle parole chiavi *swallow* (inghiottire) e *camera* (telecamera) mostra i seguenti brevetti:

EP0667115: Un sistema di telecamere video "in vivo"

dalla quale si possono ottenere ulteriori brevetti interessanti usando i documenti citati nelle references

DE3440177 Dispositivo di registrazione di televisione e visualizzazione per endoscopia in persone e animali

US4278077 Sistema di telecamere per uso medico



CASE STUDY

Allo stesso modo si trovano ulteriori brevetti usando la classificazione IPC **A61B5/07 Percepire, misura e registrazione per finalità mediche, sonde radio**

Si può inoltre approfondire la ricerca analizzando i brevetti per Applicant: *Given imaging* ha ottenuto quattro brevetti ed ha presentato oltre 40 domande di brevetto in tutto il mondo per le tecnologie impiegate nel sistema di diagnosi per immagini (Given® Imaging Diagnostic system).

Per esempio:

WO02055126 DEVICE AND SYSTEM FOR IN-VIVO PROCEDURES
(dispositivo e sistema per procedimenti in vivo)

Questo documento è relazionato con la nostra invenzione, ma non si può trovare facilmente con i concetti anteriori (parole chiave).

Questo dimostra le difficoltà che implica una ricerca esaustiva, che richiede destrezza e strumenti professionali.

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- [Release notes and known issues.](#)
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- **WO03075629** - 20030912
- **US6618858** - 20030909
- **US2003170790** - 20030911
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Number (e.g.)	H09-123456	H12-123456 or 2000-123456	S46-123456	098-12345	2500001

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Search query:

Publication number: DE4446098C2

Title: Microprocessor

Applicant: Schmidt GmbH

Inventor: Lisa Müller

Publication date: 12.10.1999

Bibliographic IPC: F17D005/00

Application date: 15.05.1998

Search file IPC: A01B1/02

Search in full text: Bicycle

Generation of result lists

☒ Publication number ☒ Title ☐ Inventor ☐ Applicant

☐ Publication date ☐ Application date ☐ Search file IPC ☐ Bibliographic IPC

Results/page

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mercedes/PA

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Result list:

No.	Publication number	Title
1	BE0001007277A	[] E
2	CA0002168802A1	[] C TO
3	CA0002168802A	[EN] Inc
4	EP0001190936A1	[] A AND
5	EP0001155812A1	[EN] COM
6	EP0001072829A1	[EN] BIL
7	EP0001062143A1	[DE] DRI
8	EP0001052159A3	[DE] End
9	EP0001052159A2	[DE] End
10	EP0001044128A1	[DE] AR

| < > > |

Bibliographic data Document EP0001155812A1 (Pages: 6)

Criterion	Field	Contents
Title	TI	[EN] GAS CYLINDER FITTED WITH A SYSTEM FOR STOPPING COMPLETELY THE ROD [FR] CYLINDRES A GAZ EQUIPES D'UN SYSTEME D'ARRET TOTAL DE LA TIGE [DE] MIT EINEM SYSTEM ZUM VOLLSTÄNDIGEN ABSTOPPEN DER STANGE AUSGESTATTETER GASZYLINDER
Applicant	PA	CANTERA FERNANDEZ, MERCEDES
Inventor	IN	ORIVE CANTERA, ISAAC ; ORIVE CANTERA, NURIA ; ORIVE CANTERA, MERCEDES
Application date	AD	30.09.1999
Application number	AN	99974057
Country of application	AC	EP
Publication date	PUB	21.11.2001
Priority data	PRC PRN PRD	WO ES 9900308 30.09.1999
IPC main class	ICM	B30B 15/16
IPC subclass	ICS	
IPC additional information on description	ICA	
IPC index class	ICI	
Abstract	AB	

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- NUTRACEUT - new file on STN since October
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[NEWS 67](#) Oct 29 MEDLINE SDI run of October 8, 2002

[NEWS 66](#) Oct 21 NUTRACEUT - new on STN

[NEWS 65](#) Oct 21 Beilstein: new search fields "All Keywords" and "Property Hierarchy"

[NEWS 64](#) Oct 18 ChemPort Enhancement for direct access to electronic patent documents

[NEWS 63](#) Oct 17 EVENTLINE to be reloaded on October 20, 2002

[NEWS 62](#) Oct 02 CASREACT Enriched with Reactions from 1907 to 1985

[NEWS EXPRESS](#) Oct 14, 2002 CURRENT WINDOWS VERSION IS V6.01, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 01 October 2002

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Inventor:

Smith John | Mary V Smith | Smith

Assignee:

Sony | Spain | London

Title:

canine | road sign | printer OR scanner

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Network per la Valorizzazione della Ricerca - Università della Calabria - 2 ottobre 2003

32

COME CONDURRE LA RICERCA

Interazione tra ricercatore e TTO manager





INDICE

Introduzione: perchè effettuare una ricerca brevettuale?

Strumenti e metodologie: analisi di banche dati brevettuali

Case study: un esempio di ricerca

CASE STUDY

In questo esempio vogliamo ricercare, utilizzando la banca dati di DELPHION, i brevetti europei (EPO) concessi negli ultimi due anni (data di pubblicazione dal 2000 ad oggi) inerenti a mandrini idraulici per macchine utensili.

PAROLE CHIAVE

in inglese “mandrino” (riferito a macchine utensili) può essere espresso nei seguenti modi:

Spindle, arbor, mandrel, mandril, chuck, boring bar

(spindle or arbor or mandrel or mandril or
chuck or (boring bar)) AND (PD>=2000-01-01)

Collections searched: European (Granted)
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☐ B23B Performing Operations; Transporting; Shaping; Machine Tools; Metal-Working Not Otherwise Provided For	113	8.9%		
☐ B23Q Performing Operations; Transporting; Shaping; Machine Tools; Metal-Working Not Otherwise Provided For	95	7.4%		
☐ B29C Performing Operations; Transporting; Shaping; Working of Plastics; Working of Substances in A Plast	59	4.6%		
☐ B65H Performing Operations; Transporting; Transporting; Conveying; Packing; Storing; Handling Thin or FI	58	4.5%		
☐ B24B Performing Operations; Transporting; Shaping; Grinding; Polishing; Machines, Devices, or Processes	43	3.3%		
☐ G11B Physics; Instruments; Information Storage; Information Storage Based on Relative Movement Between R	43	3.3%		
☐ B21D Performing Operations; Transporting; Shaping; Mechanical Metal-Working Without Essentially Removing	31	2.4%		
☐ F16K Mechanical Engineering; Lighting; Heating; Weapons; Blasting; Engineering in General; Engineering E	24	1.8%		
☐ B25B Performing Operations; Transporting; Shaping; Hand Tools; Portable Power-Driven Tools; Handles For	20	1.5%		
☐ E21B Fixed Constructions; Earth or Rock Drilling; Mining; Earth or Rock Drilling; Mining; Earth or Rock	20	1.5%		
☐ B29D Performing Operations; Transporting; Shaping; Working of Plastics; Working of Substances in A Plast	16	1.2%		
☐ D01H Textiles; Paper; Textiles or Flexible Materials Not Otherwise Provided For; Natural or Artificial T	16	1.2%		
☐ F16C Mechanical Engineering; Lighting; Heating; Weapons; Blasting; Engineering in General; Engineering E	16	1.2%		
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AFFINAMENTO DELLA RICERCA

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	☐	EP0885686B1	02/27/2002	B23Q 1/48	EMAG-MASCHINEN VERTRIEBS- und SERVICE GmbH	Machining centre
	☐	EP0991494B1	11/06/2002	B23P 11/00	THE TIMKEN COMPANY	PROCESS AND MACHINE FOR UNITING ROTATABLE MACHINE COMPONENTS
	☐	EP0796699B1	01/30/2002	B23Q 5/14	Klement, Klaus-Dieter	Spindle drive for a machine tool
	☐	EP0907461B1	01/09/2002	B24B 41/04	Unova U.K. Limited	GRINDING MACHINE SPINDLE FLEXIBLY ATTACHED TO PLATFORM
	☐	EP0733426B1	12/12/2001	B23B 29/034	HOWA MACHINERY, LTD.	Tool position correcting device
	☐	EP0868240B1	11/28/2001	B23B 31/32	THE GLEASON WORKS	WORKHOLDING APPARATUS
	☐	EP0739670B1	07/11/2001	B23B 11/00	Traub Drehmaschinen GmbH	Lockable spindle arrangement, in particular for clamping workpiece on a lathe
	☐	EP0969945B1	09/25/2002	B23B 29/034	Ex-Cell-O GmbH	ADVANCING SYSTEM FOR A ROTARY CUTTING TOOL

ULTERIORE AFFINAMENTO

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PDF	Select	Patent ▼	Pub. Date ▼	IPC Code ▲	Assignee ▲	Title ▲ (To sort a column, click ▼)
	☐	EP0925144B1	05/10/2000	B23Q 1/00	INDEX-WERKE GMBH & CO. KG HAHN & TESSKY	WORKPIECE SPINDLE DEVICE FOR A MACHINE TOOL
	☐	EP0963268B1	09/04/2002	B23B 31/30	ETP TRANSMISSION AB	HYDRAULIC PRECISION MANDREL
	☐	EP0963269B1	08/14/2002	B23B 31/30	ETP TRANSMISSION AB	HYDROMECHANICAL CHUCK
	☐	EP0728557B1	10/31/2001	B23P 19/02	AUTOMOBILES PEUGEOT	Device for press-fitting a workpiece in a lodging of a receiving workpiece
	☐	EP0743139B1	02/16/2000	B23Q 37/00	HOMAG MASCHINENBAU AG	Machining centre with a spindle unit carrying tools and groups of tools for the working of wood and plastic workpieces
	☐	EP1104343B1	08/28/2002	B23B 49/02	Kennametal Inc.	DRILL JIG ASSEMBLY HAVING HYDRAULIC CHUCK AND DRILL GUIDE WITH PILOT BORE
	☐	EP0858862B1	08/28/2002	B23Q 7/14	Stark Spannsysteme GmbH	Quick connect coupling with fluid discharge opening
	☐	EP0881020B1	08/14/2002	B23B 51/00	O.M.F.B. S.p.A. -Hydraulic Components	Method and tool for working grooves with spherical undercutting

SCELTA APPLICANT

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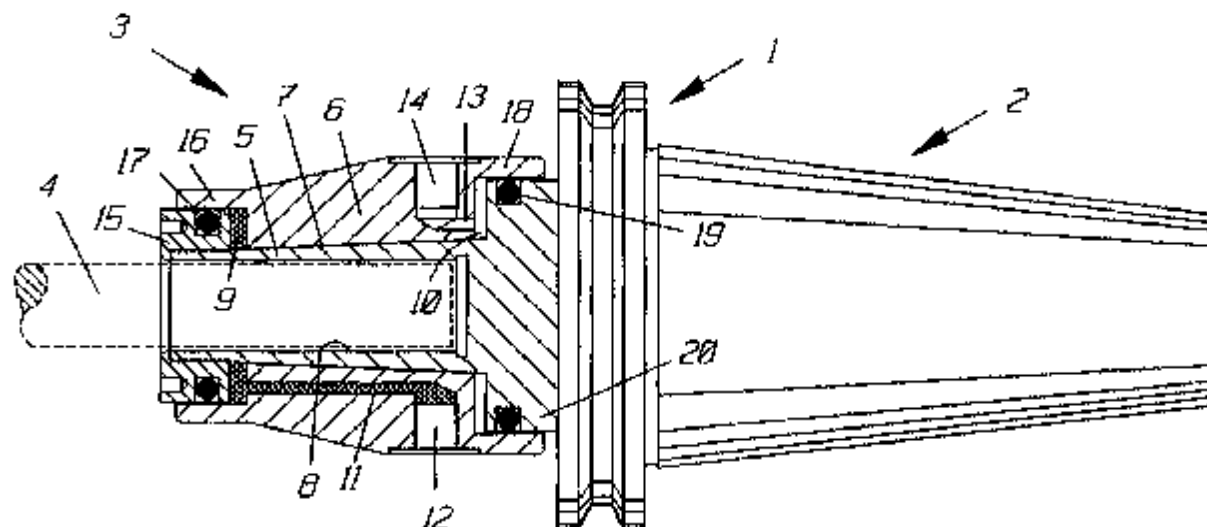
(54) Title: HYDROMECHANICAL CHUCK

INTERNATIONAL

(51) International
B23B 31/30

(21) International

(22) International

(30) Priority Data:
97(K)237-2(71) Applicant (for
MISSION
(SE).(72) Inventor; and
(75) Inventor/App
[SE/SE]; E
Linköping(74) Agents: HUL
P.O. Box

(57) Abstract

A hydromechanical chuck which is preferably intended to be mounted, with one end (2) thereof, in a machine tool, for instance in a drilling machine, a milling machine, a lathe machine etc. and, with the opposite end (3) thereof to releasably hold a shaft tool (4) like a drill, a milling tool, a rotary saw blade, a rotary grinding roll, and formed as a cone coupling chuck comprising a relatively thin inner sleeve (5) which can change its radial dimensions, and having a central axial bore (8) for receiving the shaft of a shaft tool (4), and adapted for being radially compressed against the said tool (4) shaft, and further having a mainly form solid outer sleeve (6) which is axially displaceable on the inner sleeve (5), and in which the inner sleeve (5) and the outer sleeve (6) are formed with a matching cone surface (7) which, upon a displacement of the outer sleeve (6) on the inner sleeve (5) provides a radial compression of the inner sleeve (5), and in which the chuck is formed with a hydraulic clamp pressure chamber (9, 11, 12) comprising a hydraulic pressure medium which, upon pressurization makes the outer sleeve (6) become displaced on the inner sleeve (5) thereby centering and clamp connecting the tool (4), and a pressure release chamber (10) for releasing the joint between the chuck and the tool (4).

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(54) Title: HYDRAULIC PRECISION MANDREL

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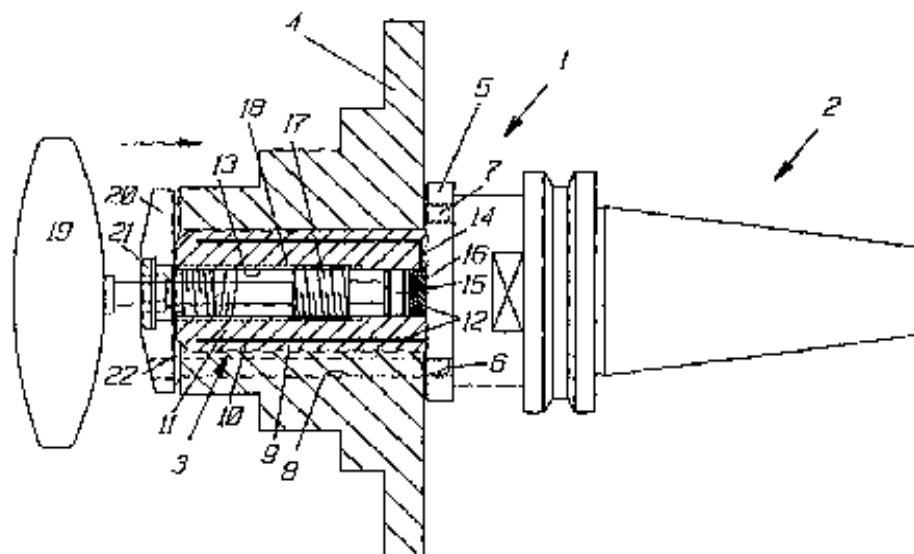
(30) Priority
9700

(71) Applica
MIS
(SP)

(72) Invento

(75) Invento
ISE/
Link
miss

(74) Agents:
P.O.



(57) Abstract

A hydraulic precision mandrel for use in rotary machine tools and comprising a transition part (1) and a clamp body (3) which is fixedly connected thereto, onto which clamp body one or more tools can be slid and can be secured, and in which the clamp body (3) is formed as a hydraulic clamp bushing having a radially outwards expandable outer wall (9) and, radially inside said outer wall (9), an all around extending gap (10) which is filled with a hydraulic pressure medium (12), and in which the clamp body (3) is formed with an axial, central bore (13) provided in the clamp body (3), one or more cross channels (14) opening in the pressure medium gap (10), a piston (15) defining a pressure medium chamber (16) which is filled with pressure medium (12) and which is located at or adjacent the inner end of the clamp body bore (13), and a pusher means (17), for instance a threaded pusher piston which is within reach through the free end of the clamp body, for instance by means of a wrench (19) and which is adapted to move the piston inwards or outwards in the mandrel body bore (13) for pressurization and pressure releasing, respectively, of the pressure medium in the all around extending pressure medium gap (10). The mandrel comprises a rubber spring (20, 22) for resiliently pressing and radially straightening up the tool or tools (4) against a radial flange (5) of the transition part.

RAPPORTO DI RICERCA INTERNAZIONALE

I	
INTERNATIONAL SEARCH REPORT	
International application No. PCT/SE 97/02196	
A. CLASSIFICATION OF SUBJECT MATTER	
IPC6: B23B 3 According to Interm	(54) Title: PROCEDURE FOR FASTENING AN OBJECT AND A HYDRAULIC FASTENING APPARATUS
B. FIELDS SEARCHED	
Minimum document	
IPC6: B23B	
Documentation search	
SE, DK, FI, NO	
Microfilm data base	
EDCC, WPI	
C. DOCUMENTS	
Category* Citation	
P, X WO 9	
(57) Abstract The invention relates to a procedure for the fastening of objects, e.g. working tools and workpieces, and to a holding device. The invention comprises a self-locking holding collet (2, 22) which fastens the object by means of an actuating element (3) which moves the holding collet to fasten and unfasten the object.	

CERCHIAMO L'ANTERIORITÀ

In questo secondo esempio vogliamo ricercare le domande di brevetto europeo depositate tramite procedura EPO e PCT dal 1997 ad oggi inerenti allo stesso oggetto del primo esempio

RIPETIAMO LA RICERCA DAL 1997

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(((spindle or arbor or mandrel or mandril or chuck or (boring bar)))) AN

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Collections searched: European (Applications - Full text), WIPO PCT Publications (Full text)

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	☐	WO02090045A1	11/14/2002	B23Q 16/10	DIPLOMATICA AUTOMAZIONE S.P.A.	POSITIONING MULTIFUNCTIONAL MECHANISM FOR SUPPORTING TOOL-HOLDING DEVICES
	☐	WO02090041A1	11/14/2002	B23P 17/00	TEMPRESS TECHNOLOGIES, INC.	METHODS FOR METAL WORKING USING HIGH PRESSURE FLUID PULSES
	☐	EP1252957A1	10/30/2002	B23D 47/12	Globe-Invent Aktiebolag	Tool unit and cutting or sawing machine
	☐	EP1252956A1	10/30/2002	B23D 47/12	Globe-Invent Aktiebolag	Cutting or sawing machine and method for working an object
	☐	EP1250967A2	10/23/2002	B21B 15/00	Kawasaki Steel Corporation	A metal block joining apparatus
	☐	WO02070177A2	09/12/2002	B23B 31/30	COMMAND TOOLING SYSTEMS, LLC	HYDRAULICALLY ACTUATED HOLDER
	☐	WO02068143A2	09/06/2002	B23D 45/04	DEL-SAW, INC.	COUNTERBALANCED ADVANCING METAL CUTTING SAW
	☐	EP1231018A2	08/14/2002	B23Q 9/00	THE BOEING COMPANY	Portable multi-axis machine

SNAPSHOT PER APPLICANT E INVENTORI

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BREVETTO CITATO NEL RAPPORTO DI RICERCA

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View: [Expand Details](#) | [INPADOC](#) | Jump to: Go to: [Derwent...](#) [Email this to a friend](#)**Title: WO9713604A1: PROCEDURE FOR FASTENING AN OBJECT AND A HYDRAULIC FASTENING APPARATUS**? Country: **WO** World Intellectual Property Organization (WIPO)? Kind: **A1** Publ. of the Int. Appl. with Int. search report ¹

? Inventor: None

? Assignee: **RINNE, Erkki, Kalevi**, FIN02400 Kela Kirkkonummi, Finland
[News, Profiles, Stocks and More about this company](#)? Published / Filed: **April 17, 1997 / Oct. 9, 1996**? Application
Number: **WO1996FI0000533**? IPC Code: [B23B 3/117](#); [B23Q 3/152](#); [B23B 31/30](#);? ECLA Code: **B23B31/20B2; B23B31/40B2;**? Priority Number: Oct. 9, 1995 **FI1995000004791**

? Abstract:

The invention relates to a procedure for the fastening of objects, e.g. working tools and workpieces, and to a holding device. The invention comprises a selflocking holding collet (2, 22) which fastens the object by means of an actuating element (3) which moves the holding collet to fasten and unfasten the object.

[\[Show in French\]](#)[High
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Resolution](#)**17 pages**

... Cono gelato motorizzato, ...

QUERY: (motorized ice cream cone)

RISULTATO

US 5971829
Motorized ice cream cone
1999-10-26

QUERY: motorized (and) ice cream cone

RISULTATO

US 5971829
Motorized ice cream cone, A63H 33/00
1999-10-26

US 4498273
System for packaging ice cream cones,
B65B 25/00
1985-02-12

VALUTAZIONI

Classificazione brevettuale
Ampliamento ricerca

Individuazione precedenze
Valutare novità e originalità

Individuazione citazioni
Stima del valore

Creazione albero citazioni
Analisi potenziali licenziatari e concorrenti

BREVETTO di RIFERIMENTO

Un nuovo divertente contenitore che sostiene, mette in rotazione e consente di scolpire una porzione di gelato, o di cibo similmente malleabile, mentre viene consumato. Comprende: una struttura per tenerlo in mano, una parte rotante sostenuta dalla struttura e adatta a ricevere e contenere una porzione di gelato, o di cibo di simile consistenza, e un meccanismo contenuto nella struttura che fornisce il moto alla parte rotante così da mettere il suo contenuto in rotazione contro una lingua tirata fuori da una persona.



US005971829A

[19] [11] **Patent Number:** **5,971,829**

[45] **Date of Patent:** **Oct. 26, 1999**

NE 5,209,692 5/1993 Coleman et al. .

 5,224,646 7/1993 Biancosini .

P.O. Box 228, 5,536,054 7/1996 Liaw .

 5,553,643 9/1996 Goldbarb et al. 141/34

 5,582,532 12/1996 Tucker 446/475

 5,690,535 11/1997 Coleman et al. 446/236

 5,736,659 4/1998 Kyle, Jr. 84/95.2

OTHER PUBLICATIONS

000; B65D 85/78 *Cap Toys. 1996 product catalog, p. 14. (Cap Toys, Inc., 1996).*

446/73; 446/76; *Primary Examiner—Robert A. Hafer*

26/132; 426/104 *Assistant Examiner—Laura Fossum*

446/71, 73, 74, [57] **ABSTRACT**

0; 426/132, 134, A novelty amusement eating receptacle for supporting, rotat-

135, 104 ing and sculpting a portion of ice cream or similarly mal-

TS leable food while it is being consumed comprising: a hand-

 held housing, a cup rotatably supported by the hand-held

 housing and adapted to receive and contain a portion of ice

 cream or food product of similar consistency, and a drive

 mechanism in the hand-held housing for imparting rotation

 upon the cup and rotationally feeding its contents against a

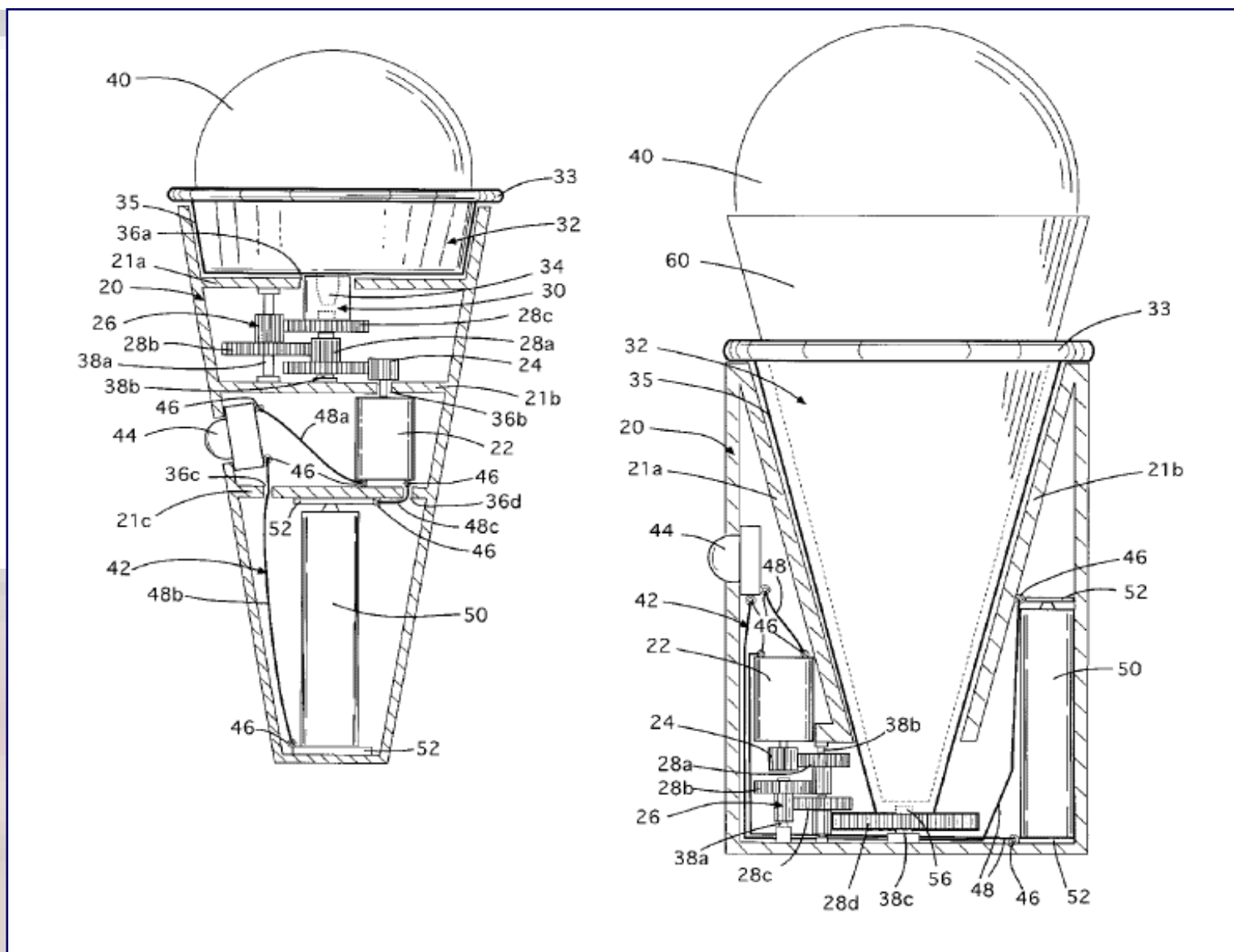
 person's outstretched tongue.

 40/406

 362/35

7 Claims, 6 Drawing Sheets

BREVETTO di RIFERIMENTO (immagini)





Sezioni	Classi, sottoclassi	Gruppi
A: Necessità umane B: Trasporto C: Chimica, Metallurgia D: Materiale tessile, carta E: Costruzioni F: Ing. Meccanica, illumin G: Fisica H: Elettricità	A 63: Sport, giochi, divertimenti A63 H: Giocattoli... . . . B65: Trasporto, imballaggio, maneggiamento materiale B65 B: Macchine, mezzi per imballaggio...	A63H 33/00 Altri giocattoli A63H 33/02 Cerchi, bastoncini... . . . B65B 25/00 Imballaggio di altri articoli che mostrano problemi particolari



Individuare il settore



Definire l'applicazione industriale



Selezionare il prodotto

US FORWARD REFERENCES

US6383536

Interactive foodstuff holding device

2002-05-07

A23G

US6227929

Whirling amusement device and associated method of operation

2001-05-08

A63H

US6074266

Spin pop with facial expression capability

2000-06-13

A63H

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

(54) **INTERACTIVE FOODSTUFF HOLDING DEVICE**

(76) Inventors: **William Randall Palmer**, 2510 Knollwood Dr.; **Stephen Lynn Palmer**, 4391 Cameron Rd., both of Cameron Station, CA 95687

Un alimento interattivo che emette suoni, luci, movimenti ed azioni mediante il controllo e/o la manipolazione di condizioni elettriche, ottiche o fisiche

RIVENDICAZIONE PRINCIPALE:

Combinazione di un alimento e di un contenitore che produce differenti livelli effetti sensoriali mediante la manipolazione del contenitore stesso. Detto contenitore comprende una parte rigida rimovibile per contenere l'alimento... un'altra per produrre effetti sonori, luminosi... e un'ultima parte per alloggiare le batterie...

WO 94/17691 * 8/1994

Merriam-Webster's Collegiate Dictionary, 10th Edition, p. 34, 1993.*

* cited by examiner

Primary Examiner—Nina Bhat
(74) *Attorney, Agent, or Firm*—McHale & Slavin

(57) **ABSTRACT**

An interactive foodstuff emits sound, light, motion or other action by the control and/or manipulation of the electrical, optical or physical conditions of or proximal to the foodstuff.

12 Claims, 13 Drawing Sheets

(609) Provisional application Ser. No. 08/071,421, filed Apr. 20, 1998.

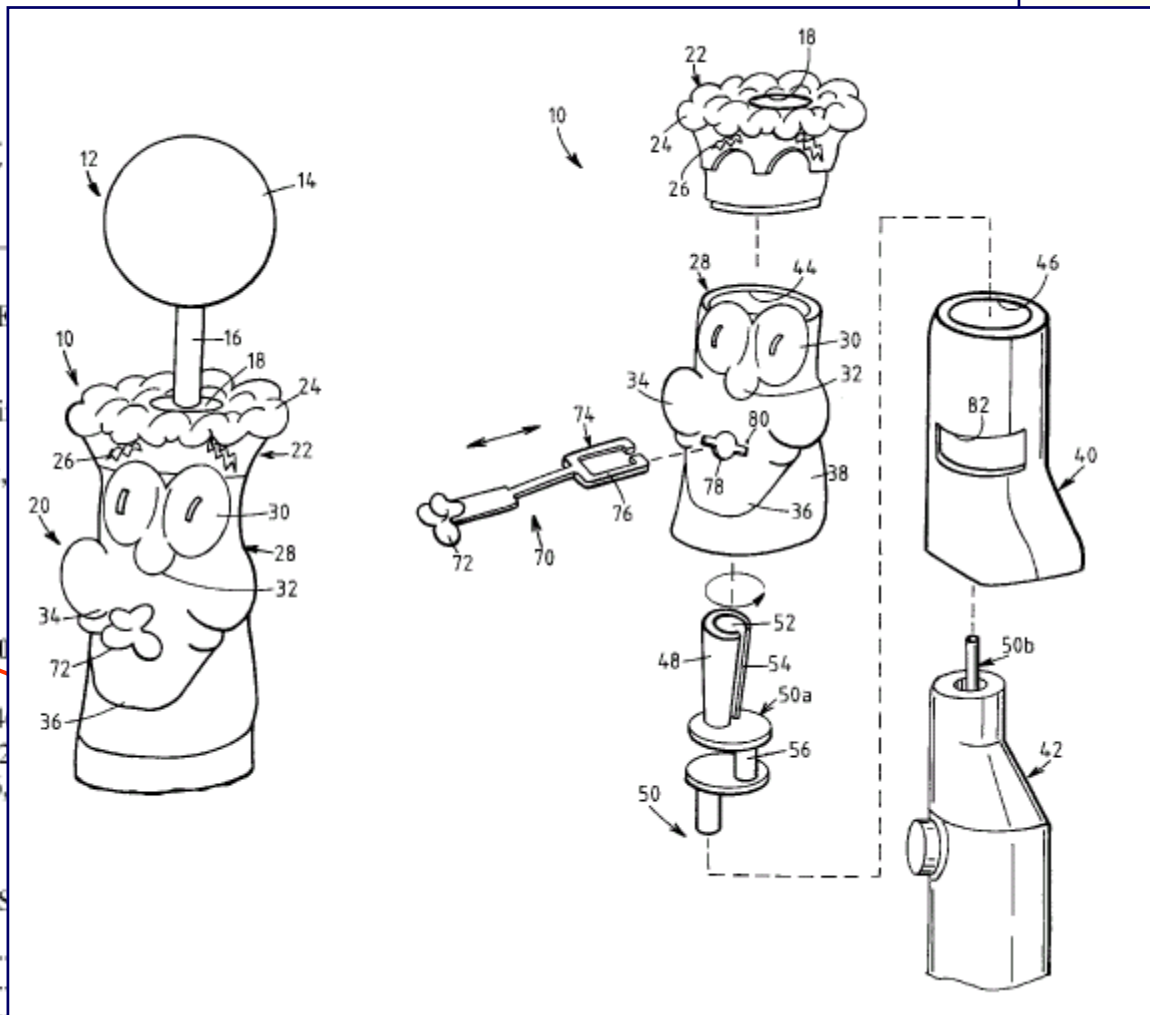
(51) **Int. Cl.**⁷ **A23G 1/00; A23G 3/00**
(52) **U.S. Cl.** **426/104; 426/90; 426/91; 426/132; 426/134; 446/81; 446/404; 446/484**
(58) **Field of Search** 426/104, 132, 426/134, 420, 90, 91; 446/71, 73, 81, 175, 202, 213, 297, 404, 397, 484; 340/384.1, 384.3, 384.7, 692

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,966,972 A * 6/1976 Theimer et al. 426/90

Dispositivo per contenere dolci, caramelle mettendoli in rotazione. E' composto di un dispositivo che contiene un supporto rotante dove è alloggiato la caramella, una parte deformabile...



[58] Field of Search 42
446/73, 236

References Cited

U.S. PATENT DOCUMENTS

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2,001,334	5/1935	Stein	
2,733,547	2/1956	Cohn	
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4,580,992	4/1986	McKay	 446/321
5,209,692	5/1993	Coleman et al.	 446/71
5,324,527	6/1994	Coleman	 426/134
5,690,535	11/1997	Coleman et al.	 446/236
5,957,746	9/1999	D...	 426/236

to the container member and up to the mouth area so that the lips, the mouth area, and/or the cheeks of the face move in and out in synchronism with rotation of the candy.

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

(10) Patent No.: **US 6,227,929 B1**
(45) Date of Patent: **May 8, 2001**

Un divertente dispositivo
usato per muovere un
oggetto generando un
percorso irregolare.
Il dispositivo include un
elemento base nel quale è
inserito un altro elemento
rotante che può funzionare
sia manualmente che a
batterie....

5,209,692 * 5/1993 Coleman et al. 446/236
5,536,054 * 7/1996 Liaw 446/236
5,609,509 * 3/1997 Stamos .
5,823,844 * 10/1998 Markowitz 446/175
5,826,997 * 10/1998 Coleman et al. .
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5,971,829 * 10/1999 Hartman
6,004,597 * 12/1999 Coleman et al. .

* cited by examiner

Primary Examiner—Sam Rimell
(74) Attorney, Agent, or Firm—LaMorte & As

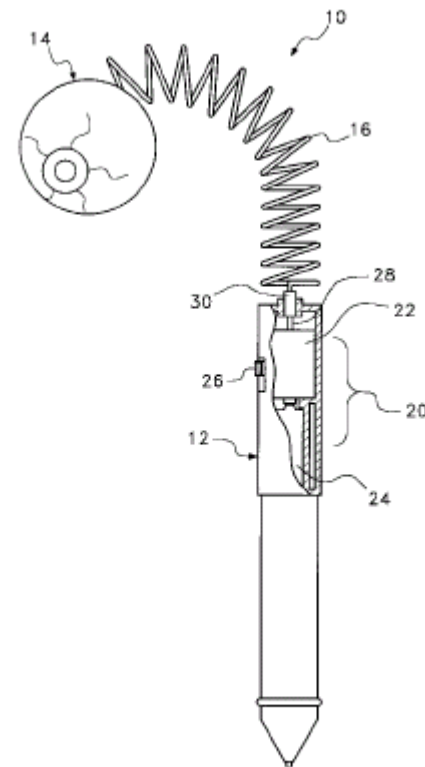
(57) **ABSTRACT**

An amusement device used to move a support object through an erratic path. The amuser includes a base element in which is disposed an assembly. The rotating assembly can be battery powered or manually powered. A support spring is used to interconnect a display object to the rotating assembly in the base element. The support spring has a first end at the rotating assembly and a second end at the display object. The first end of the support spring is rotated by the rotating assembly. The remainder of the support spring extends freely from the base element. The display object is coupled to the second end of the support spring. As the display object rotates, the support spring is at least partially elongated, thereby moving the display object to move erratically from point to point.

13 Claims, 4 Drawing Sheets

U.S. PATENT DOCUMENTS

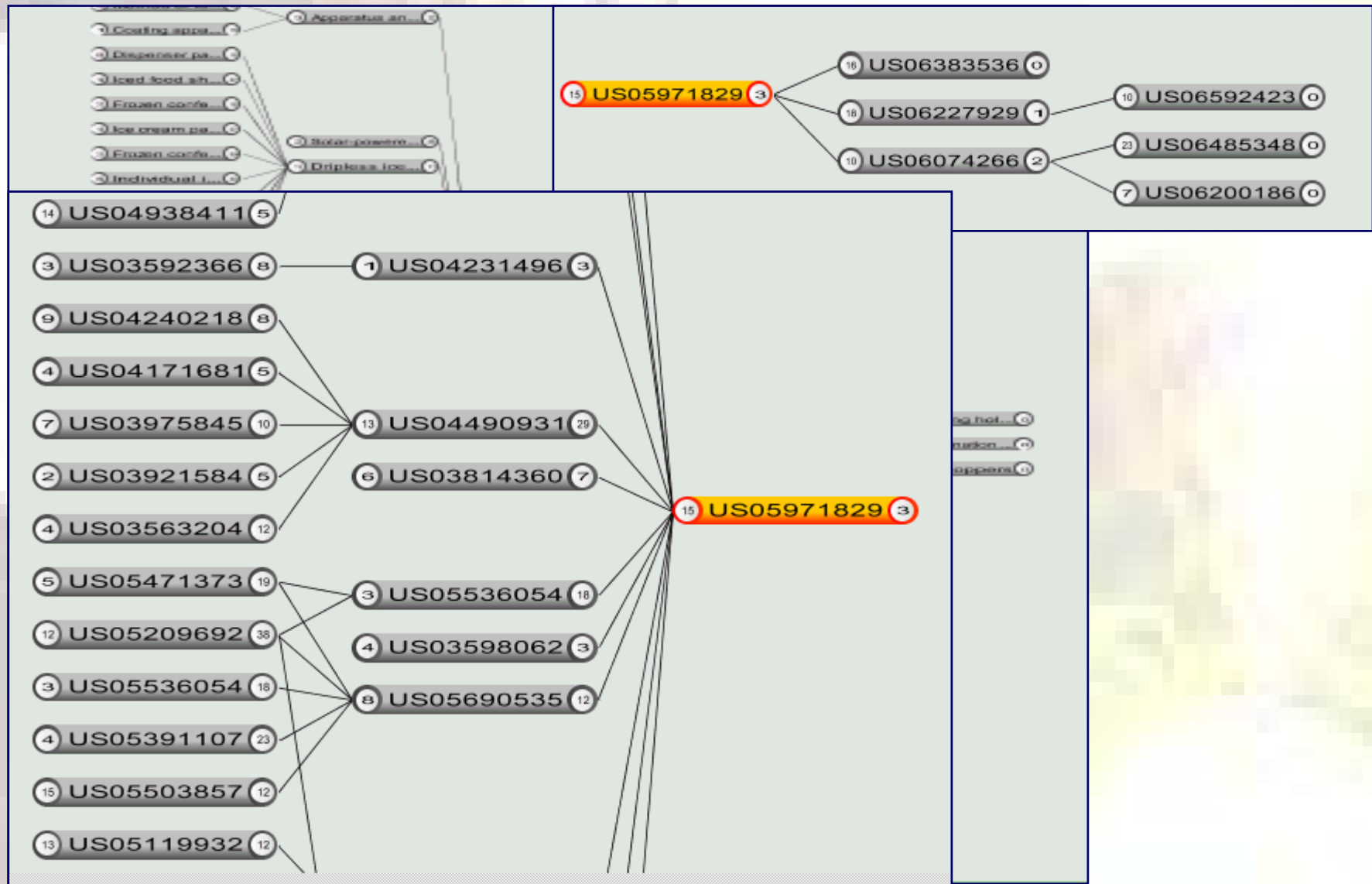
106,262 * 8/1870 Fine 446/236
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5,078,643 * 1/1992 Thill .
5,146,702 * 9/1992 Belokin .



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US5690535 Twin spins spin pop 1997-11-25
US5582532 Glitter toy 1996-12-10
US5553643 Apparatus and method for rapidly rotating containers to produce multi-aspect designs 1996-09-10
US5536054 Lollypop holder 1996-07-16
US5224646 **Dripless ice cream holder 1993-07-06**
US5209692 Combination, a novelty toy and a candy holding device 1993-05-11
US4764850 Solar-powered display device 1988-08-16
US4490931 Display device and method 1985-01-01
US4231496 Food dispensing utensil 1980-11-04
US3814360 bowl supporting turntable for kitchen mixer 1974-06-04
US3598062 food product scooper 1971-08-10
US2581879 title unavailable - see image 1952-01-01
US2547651 title unavailable - see image 1951-04-01
US2162224 title unavailable - see image 1939-01-01

CITATION LINK

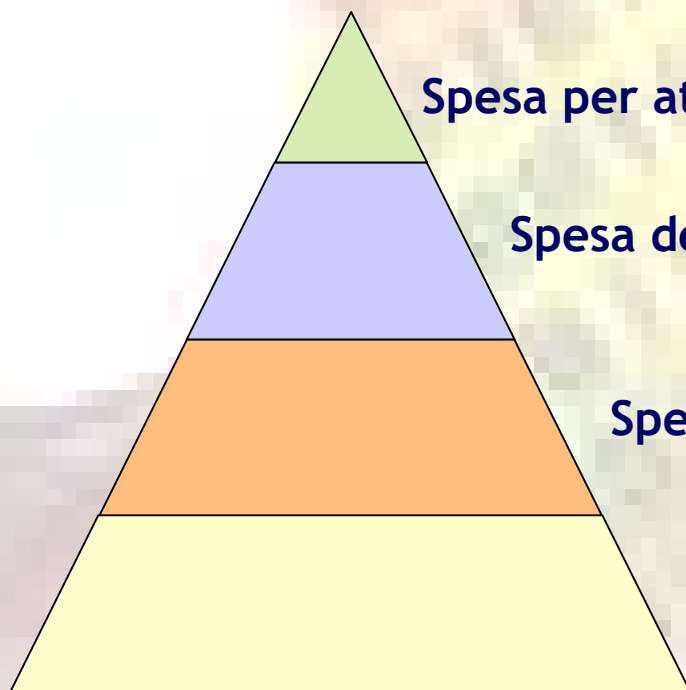


IMPORTANZA della conoscenza dello Stato dell'arte brevettuale



IMPATTO ECONOMICO della conoscenza dello Stato dell'arte brevettuale

EFFETTO " RISPARMIO "



Spesa per attività di R.S.A. = X

Spesa deposito nazionale = $10 X$

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