

RICERCHE BREVETTUALI

Rossella Osella

Politecnico di Torino

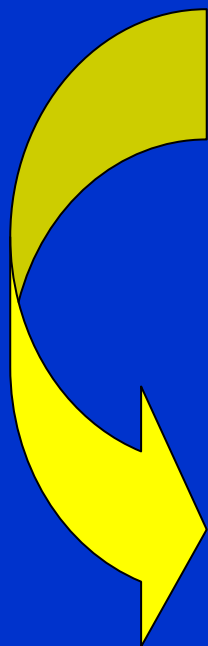
28 Febbraio 2012

Programma

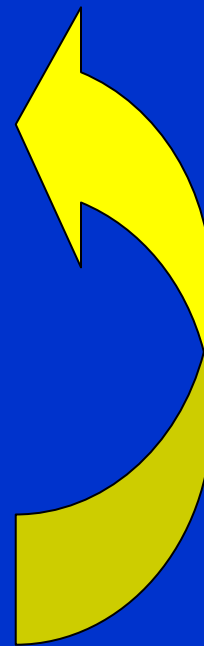
- **Nozioni generali sulle ricerche brevettuali**
- **Esempio pratico ricerca stato dell'arte**

Funzioni fondamentali del brevetto

**Tutela e sfruttamento economico
delle invenzioni**



**Fonte di informazioni
tecniche, scientifiche, commerciali
accessibili al pubblico**



Funzione informativa del brevetto

Funzione informativa

Deriva dal fatto che le domande di brevetto sono pubblicate, generalmente a decorrere da un periodo di diciotto mesi dal deposito, e le informazioni in esse contenute sono messe a disposizione di terzi. Inoltre, una delle principali condizioni per la tutela è che l'inventore descriva in dettaglio l'invenzione.

Importanza dell'informazione brevettuale

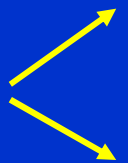
Contenuto

Quantità

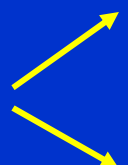
Accessibilità

Aggiornamento

Utilità dell'informazione brevettuale

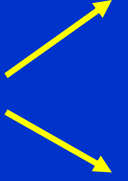
Monitorare 

- stato dell'arte
- attività della concorrenza

Individuare 

- soluzioni a problemi tecnici
- opportunità di licenza

Utilità dell'informazione brevettuale

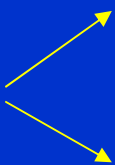
Evitare  duplicazioni di attività di ricerca e sviluppo
violazioni di diritti brevettuali

Stimolare  innovazione
sviluppo economico

Alcune domande prima di iniziare un progetto di ricerca

- **Quale problema tecnico si vuole risolvere?**
- **Cosa esiste già?**
- **Come si differenzia l'invenzione da cosa esiste già?**

Fonti di accesso all'informazione brevettuale

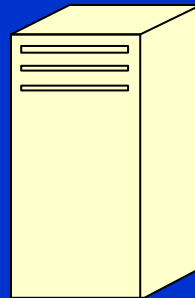
Banche dati  gratuite in Internet
a pagamento

CD-ROM

Collezioni cartacee → Uffici nazionali brevetti

Banche dati

Archivi elettronici dinamici
di
dati organizzati e indicizzati



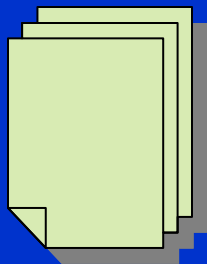
Produttore banca dati



Host



Utilizzatore



Parti del brevetto

Dati bibliografici

Titolo

Date

Titolare, Inventore

Classificazione

Stati designati

Contenuto tecnico

Descrizione

Rivendicazioni

Esempi

Disegni

Riassunto

Famiglia di brevetti

- Tutte le domande di brevetto depositate e/o i brevetti concessi in vari paesi relativi alla stessa invenzione.
- I documenti appartenenti ad una stessa famiglia sono detti “equivalenti” ed hanno in comune uno o più numeri di priorità.

INPADOC

- **INPADOC (International Patent Documentation Center)**
 - collezione brevettuale internazionale prodotta e mantenuta dall'EPO
 - contiene famiglie brevettuali da oltre 70 paesi ed informazioni di stato legale da oltre 40 autorità brevettuali
- **BANCA DATI INPADOC**
 - accessibile pubblicamente
 - fornisce informazioni su famiglie brevettuali ed informazioni di stato legale

Banche dati brevettuali

- Bibliografiche

- Campi di ricerca:

- dati bibliografici, titolo, riassunto (pubblicato dall'inventore o elaborato dal produttore)

- Testo integrale

- Campi di ricerca:

- dati bibliografici, titolo, riassunto (pubblicato dall'inventore), descrizione, rivendicazioni

Campi di ricerca



Classificazioni dei brevetti

- Tutti i documenti brevettuali sono classificati in maniera sistematica mediante uno o più simboli che indicano l'appartenenza ad un determinato settore tecnologico.
- Le classificazioni dei brevetti forniscono uno strumento di ricerca ed accesso ai documenti brevettuali.
- Sono strumenti indispensabili per trovare i documenti brevettuali nelle ricerche per stabilire la novità di un'invenzione o determinare lo stato dell'arte in una particolare area tecnologica.

Classificazioni dei brevetti

IPC: International Patent Classification

- E' un sistema gerarchico in cui tutte le tecnologie sono suddivise in sezioni, classi, sottoclassi e gruppi. Contiene circa 70000 suddivisioni.

<http://www.wipo.int/classifications/ipc/ipc8/>

ECLA: European Patent Classification

- E' utilizzata dagli esaminatori dell'Ufficio Europeo Brevetti. E' costruita sulla base della IPC e contiene circa 130.000 suddivisioni.

<http://v3.espacenet.com/eclasrch>

Classificazioni dei brevetti

USPCL: United States Patent Classification

- E' utilizzata dagli esaminatori dell'Ufficio Statunitense Brevetti. Contiene circa 430 classi principali e circa 130000 suddivisioni.
- “function-oriented”

<http://www.uspto.gov/go/classification/>

FI/FTERMS: Japanese Patent Classification

- Due sistemi indipendenti
- FI: basata sulla IPC. Contiene circa 190.000 suddivisioni, particolarmente nelle sezioni G e H
- Fterms: sviluppati dal JPO dal 1980; coprono tutti campi tecnici; circa 340.000 suddivisioni

http://search.p4.patolis.co.jp/search_en.html

International Patent Classification

- A Human necessities**
- B Performing operations; Transporting**
- C Chemistry; Metallurgy**
- D Textiles; Paper**
- E Fixed constructions**
- F Mechanical engineering; Lighting; Heating;
Weapons; Blasting**
- G Physics**
- H Electricity**

International Patent Classification

- Cosa è
- Struttura: sezioni, classi, sotto-classi, gruppi
- Schema:

sezioni

Es. A

→ classi

Es. A23

→ sotto-classi

Es. A23L

→ gruppi

Es. A23L1/16



Version:

Version 8 [2006.01] ▼

Current symbol:

A61

Jump Print

A | B | C | D | E | F | G | H

Level core ☒ adv. ☐Lang. En. ☒ Fr. ☐View mode path ☒
full ☐
hierarchic ☐Standard seq. yes ☐ no ☒Display deleted ☒

IPC

Definitions

Illustrations

RCL

Catchwords

Help

Options

A

SECTION A — HUMAN NECESSITIES

HEALTH; AMUSEMENT



A61

MEDICAL OR VETERINARY SCIENCE; HYGIENE



A61B

DIAGNOSIS; SURGERY; IDENTIFICATION (analysing biological material [G01N](#), e.g. [G01N 33/48](#); obtaining records using waves other than optical waves, in general [G03B 42/00](#))

A61C

DENTISTRY; ORAL OR DENTAL HYGIENE (tooth brushes [A46B](#); preparations for dentistry [A61K 6/00](#))

A61D

VETERINARY INSTRUMENTS, IMPLEMENTS, TOOLS, OR METHODS



A61F

FILTERS IMPLANTABLE INTO BLOOD VESSELS; PROSTHESES; DEVICES PROVIDING PATENCY TO, OR PREVENTING COLLAPSING OF, TUBULAR STRUCTURES OF THE BODY, E.G. STENTS; ORTHOPAEDIC, NURSING OR CONTRACEPTIVE DEVICES; FOMENTATION; TREATMENT OR PROTECTION OF EYES OR EARS; BANDAGES, DRESSINGS OR ABSORBENT PADS; FIRST-AID KITS (dental prosthetics [A61C](#)) [6,8]

A61G

TRANSPORT, PERSONAL CONVEYANCES, OR ACCOMMODATION SPECIALLY ADAPTED FOR PATIENTS OR DISABLED PERSONS; OPERATING TABLES OR CHAIRS; CHAIRS FOR DENTISTRY; FUNERAL DEVICES (chairs or beds in general [A47C](#); appliances for aiding patients or disabled persons to walk [A61H 3/00](#))

A61H

PHYSICAL THERAPY APPARATUS, e.g. DEVICES FOR LOCATING OR STIMULATING REFLEX POINTS IN THE BODY; ARTIFICIAL RESPIRATION; MASSAGE; BATHING DEVICES FOR SPECIAL THERAPEUTIC OR HYGIENIC PURPOSES OR SPECIFIC PARTS OF THE BODY (methods or devices enabling patients or disabled persons to operate an apparatus or a device not forming part of the body [A61F 4/00](#); electrotherapy, magnetotherapy, radiation therapy, ultrasound therapy [A61N](#))

A61J

CONTAINERS SPECIALLY ADAPTED FOR MEDICAL OR PHARMACEUTICAL PURPOSES; DEVICES OR METHODS SPECIALLY ADAPTED FOR BRINGING PHARMACEUTICAL PRODUCTS INTO PARTICULAR PHYSICAL OR ADMINISTERING FORMS; DEVICES FOR ADMINISTERING FOOD OR MEDICINES ORALLY; BABY COMFORTERS; DEVICES FOR RECEIVING SPITTLE



A61K

PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES (bringing into special physical form [A61J](#); chemical aspects of, or use of materials for deodorisation of air, for disinfection or sterilisation, or for bandages, dressings, absorbent pads or surgical articles [A61L](#); compounds per se [C01](#), [C07](#), [C08](#), [C12N](#); soap compositions [C11D](#); micro-organisms per se [C12N](#))

WIPO Reformed IPC: Internet Publication - Windows Internet Explorer

http://www.wipo.int/classifications/ipc/ipc8/?lang=en

File Modifica Visualizza Preferiti Strumenti ?

WIPO Reformed IPC: Internet Publication

WIPO

[To the IPC official web site](#)

IPC Definitions Illustrations RCL Catchwords Compilation Help

A47L 13/00 Implements for cleaning floors, carpets, furniture, walls, or wall coverings (brushes, their handles or fastening buildings [E04F 21/00](#))

A47L 13/02 • Scraping

Fulltext... handles
Path View... having provisions for supplying cleaning agents
hierarchic... wool

A47L 13/06 • • with wire brushes or wire meshes

A47L 13/07 • • • Metal sponges ([A47L 13/022](#), [A47L 13/03](#) take precedence)

A47L 13/08 • • with scraping blades

A47L 13/10 • Scrubbing; Scouring; Cleaning; Polishing

A47L 13/11 • • Squeegees [3]

A47L 13/12 • • Implements with several different treating devices [3]

A47L 13/14 • • combined with squeezing or wringing devices

A47L 13/142 • • • having torsional squeezing or wringing action

A47L 13/144 • • • having squeezing rollers

A47L 13/146 • • • having pivoting squeezing plates

A47L 13/16 • • Cloths; Pads; Sponges (metal scraping sponges [A47L 13/07](#))

A47L 13/17 • • • containing cleaning agents ([A47L 13/19](#) takes precedence)

A47L 13/18 • • • Gloves; Glove-like cloths

A47L 13/19 • • • • containing cleaning agents

A47L 13/20 • • Mops

A47L 13/22 • • • with liquid-feeding devices

A47L 13/23 • • • • connectible to the water mains

A47L 13/24 • • • Frames for mops; Mop heads (handles [B25G](#))

A47L 13/25 • • • • Wire frames

A47L 13/252 • • • • • for mops of textile fringes or the like

A47L 13/253 • • • • • of adjustable or foldable type

A47L 13/254 • • • • Plate frames

A47L 13/255 • • • • • for mops of textile fringes or the like

A47L 13/256 • • • • • for mops made of cloth

A47L 13/257 • • • • • for mops made of sponge material

A47L 13/258 • • • • • of adjustable or foldable type

Version:
Version 2009.01

Current symbol:
A47L

Jump Print

[A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#)

Level | core ☐ adv. ☒

Lang. | En. ☒ Fr. ☐

View mode | path ☐ full ☒ hierarchic ☐

Standard seq. | yes ☐ no ☒

Display | deleted ☒

Search:

- By text categorization ([IPCCAT](#)).
- By Natural language processing ([TACS](#)Y).

Advanced level

Advanced level

Core level

Search the **European classification**

View Section

Index **A** B C D E F G H Y

Find classification(s) for keywords

Go

Find description for a symbol

Go

Next page: **A**

HUMAN NECESSITIES

A ☐

PERFORMING OPERATIONS; TRANSPORTING

B ☐

CHEMISTRY; METALLURGY

C ☐

TEXTILES; PAPER

D ☐

FIXED CONSTRUCTIONS

E ☐

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

F ☐

PHYSICS

G ☐

ELECTRICITY

H ☐

GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS[N0403]

Y ☐

☐

show notes

Expand groups

Copy to searchform:

Copy

Clear

Polarising elements (light-modulating devices G02F1/00)

☐ show notes

Expand groups

Copy to searchform:

Copy

Clear

- [N: comprising dielectric particles, e.g. birefringent crystals embedded in a matrix] [N0406] G02B5/30F ☐
- [N: involving passive liquid crystal elements (optical properties of liquid crystals G02F1/00B134; polarising elements associated with active liquid crystal devices G02F1/1335P)] [N9501] G02B5/30L ☐
- [N: Polarisers, i.e. arrangements capable of producing a definite output polarisation state from an unpolarised input state (G02B5/30F, G02B5/30L take precedence)] [C0406] G02B5/30P ☐
 - [N: in the form of a thin sheet or foil, e.g. Polaroid] [C9501] G02B5/30P1 ☐
 - [N: comprising multiple thin layers, e.g. multilayer stacks] [N0406] G02B5/30P1S ☐
 - [N: including organic materials, e.g. polymeric layers] [N0406] G02B5/30P1S1 ☐
 - [N: comprising electrically conductive elements, e.g. wire grids, conductive particles] [C9501] G02B5/30P2 ☐
 - [N: involving the reflection of light at a particular angle of incidence, e.g. Brewster's angle] [N9501] G02B5/30P3 ☐
 - [N: for use in the UV (G02B5/30P3 takes precedence)] [N0503] G02B5/30P4 ☐
- [N: Birefringent or phase retarding elements (G02B5/30F, G02B5/30L take precedence; systems for polarisation control G02B27/28C; manufacturing phase modulating patterns by lithographic processes G03F7/00B3)] [C0406] G02B5/30R ☐
 - [N: for use in the UV] [N0503] G02B5/30R2 ☐



United States Patent and Trademark Office

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[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](#)

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](#)

C. Search

Can't find what
you want? Try...



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

→ **Patent & Utility Model**

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

→ **Trademark**

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

→ **Design**

[Design Gazette DB](#)

→ **Database Contents**

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

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Ricerche brevettuali

Tipologie

Stato della tecnica

Brevettabilità

Libertà di attuazione

Validità

Analisi della concorrenza

Ricerche di stato dell'arte

- **Scopo**
 - fornire informazioni generali su un settore tecnologico
- **Quando?**
 - prima di iniziare un progetto R&D
- **Fonti**
 - banca dati bibliografica mondiale e letteratura tecnico/scientifica
- **Risultati**
 - ampi ed esaustivi

Ricerche di brevettabilità

- **Scopo**
 - fornire al mandatario sufficienti informazioni prima della stesura di una domanda di brevetto per prevedere se l'invenzione è brevettabile
- **Quando?**
 - prima della stesura di una domanda di brevetto
- **Fonti**
 - banca dati bibliografica mondiale, testi integrali, letteratura tecnico/scientifica, web
- **Risultati**
 - ampi ed esaustivi

Ricerche validità e opposizione

- **Scopo**
 - trovare pubblicazioni o evidenze documentate di utilizzo dell'invenzione per invalidare un brevetto concesso o limitare l'ampiezza delle rivendicazioni di un brevetto concesso
- **Quando?**
 - opposizione procedura europea e cause
- **Fonti**
 - il maggior numero possibile, in particolare testi integrali
- **Risultati**
 - parti del testo rilevanti per le rivendicazioni

Ricerche di libertà di attuazione

- **Scopo**
 - trovare domande di brevetto o brevetti non scaduti in un settore tecnologico per evitare contraffazioni
- **Quando?**
 - prima della commercializzazione
- **Fonti**
 - banche dati bibliografiche mondiali, testi integrali, collezioni cartacee a seconda dei paesi di interesse
- **Risultati**
 - rivendicano il prodotto o processo

Ricerche bibliografiche

- **Scopo**
 - fornire informazioni su depositanti, inventori, anno deposito, etc.
- **Quando?**
 - prima di effettuare una ricerca tecnica o di studi di competitive intelligence
- **Fonti**
 - banche dati bibliografiche mondiali, siti uffici brevetti
- **Risultati**
 - tabelle

Metodologia di ricerca

Metodologia di ricerca

- Breve descrizione dell'argomento
- Banche dati utilizzate
- Strategie di ricerca
 - Suddivisione dell'argomento in concetti
 - Identificazione di termini e sinonimi
 - Ricerca in titolo e riassunto; testi integrali
 - Identificazione di codici di classificazione (IPC8, ECLA, USPCL, FI/FTerms) dei documenti trovati
 - Ricerca con parole chiave e codici di classificazione
 - Selezione e breve descrizione dei documenti rilevanti
 - Ricerca di documenti citanti e citati dei documenti rilevanti selezionati

Per tutte le tipologie di ricerca

1. Richiedere informazioni
2. Scegliere le banche dati
3. Impostare la strategia
4. Individuare: parole chiave, sinonimi e codici di classificazione
5. Leggere, Leggere, Leggere!

Per tutte le tipologie di ricerca

- Cosa fare?
 1. raccogliere tutti i dati necessari per effettuare la ricerca
 2. determinare in quali fonti effettuare la ricerca
 3. sviluppare una strategia di ricerca
 4. esaminare i risultati della ricerca
 5. presentare i risultati

Per tutte le tipologie di ricerca

- Come iniziare la ricerca in un campo nuovo:
 - chiedere al committente: documenti noti, inventori, depositanti
 - descrizione dettagliata dell'oggetto della ricerca
 - parole chiave e sinonimi
(eventuali disegni e codici di classificazione)
- Controllare:
 - citazioni dei documenti noti
 - classificazioni dei documenti noti
 - pubblicazioni di potenziali inventori e depositanti

Per tutte le tipologie di ricerca

- Per trovare parole chiave e sinonimi:
 - leggere i documenti noti ed individuare parole chiave
 - utilizzare: dizionari tecnici, internet, testi tecnici

**Esempio pratico
di
ricerca di stato dell'arte**

Strumento di ricerca

Banca dati

ORBIT.COM

MODULI

- Ricerca brevetti regular
- Ricerca brevetti xpress
- Workfiles (archivio on-line)
- Documenti originali pdf
- Sorveglianze
- Analisi statistica avanzata
- Ricerca designs
- Servizi legali

www.orbit.com

The screenshot displays the Orbit.com website interface. At the top, the URL **www.orbit.com** is shown in large yellow text on a blue background. Below this, the website's header features the Orbit.com logo (circled in red) and navigation links: [Coverage detail](#), [Latest News](#), and [Download Patents Module Manual \(Regular Search\)](#).

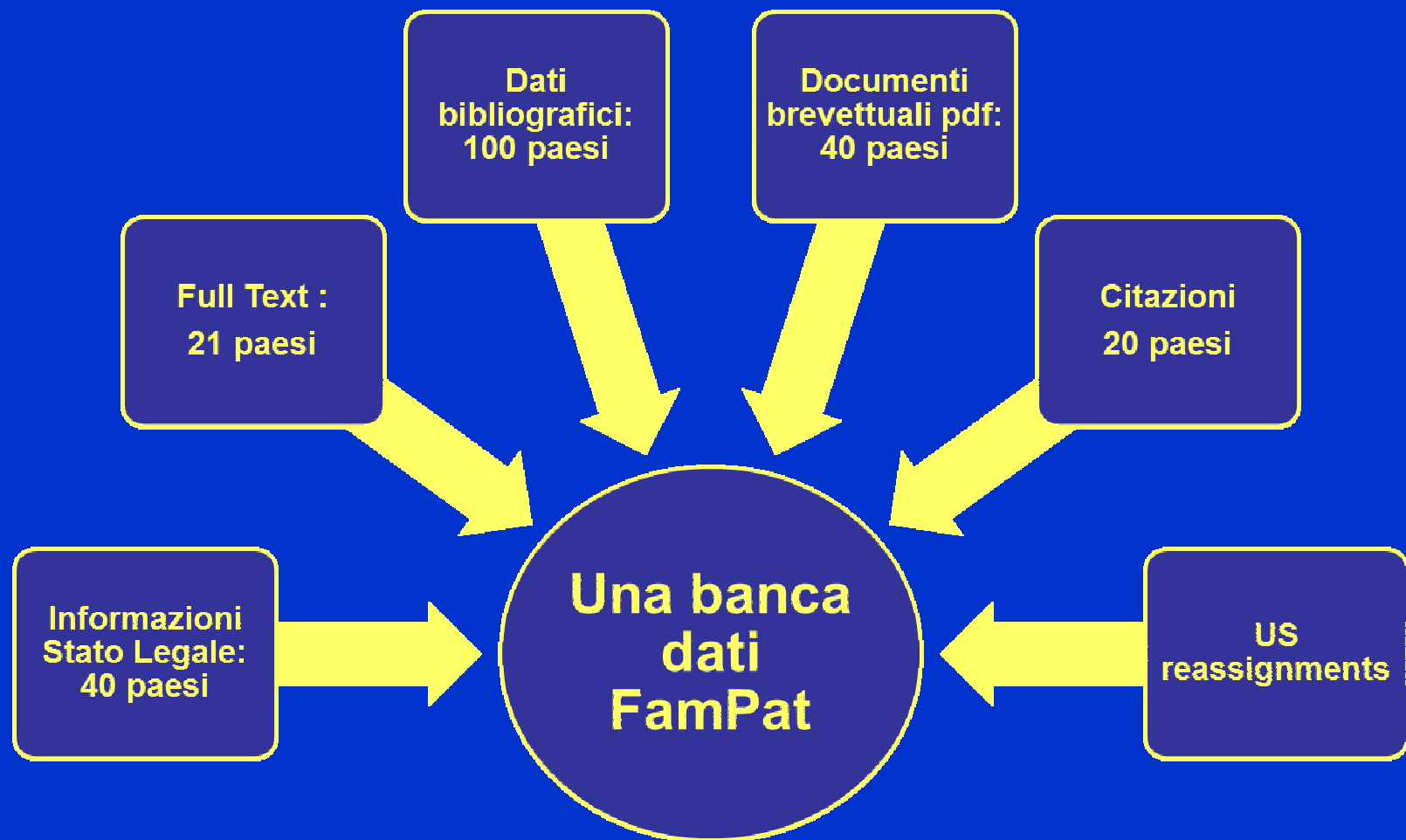
A user profile dropdown menu is open on the left, showing the user ID **04101:L1**. The menu is organized into several sections:

- Search** (highlighted with a red circle):
 - Patents (highlighted with a red circle)
 - Designs
 - Order a search
- Watch**:
 - Patents & Designs
 - Legal Status
- Search Xpress**
- Workfiles**
- Downloads**:
 - Patent Copies
 - File Histories
- Legal Services**:
 - EP Patent Validation
 - Legal Status
 - File Histories
 - IP Litigation

On the right side of the menu, there are links for [User settings](#), [Usage history](#), and [Logout](#).

The main content area on the right is a search form with multiple input fields. The first field has a dropdown arrow. The second field is followed by a green checkmark icon. The third field is followed by a green checkmark icon and a "Corporate" button. The fourth field is followed by a "No Restriction" dropdown menu and a blue circular icon. The fifth field is followed by a dropdown arrow. At the bottom of the form, there are four buttons: [Search](#), [Show the cmd. line](#), [Create script](#), and [Clear](#).

BANCA DATI MONDIALE IN FAMIGLIE FAMPAT



Schema

- Definizione oggetto della ricerca
- Parole chiave e sinonimi
- Codici di classificazione
- Strategie ricerca
- Esame risultati
- Analisi statistica e visualizzazione grafica

Oggetto della ricerca

Materasso traspirante in schiuma viscoelastica e/o di poliuretano



Parole chiave e sinonimi

- **Mattress OR Pillow OR Cushion OR (Seat pad)**
- **Polyurethane OR Viscoelastic**
- **Foam**
- **Transpiring OR Breathable OR Air permeable**

Codici di classificazione

Codici di classificazione

IPC A47C 27/14

SECTION A — HUMAN NECESSITIES

A47

•FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL

A47C

•CHAIRS (seats specially adapted for vehicles); SOFAS; BEDS

A47C 27/00

•Stuffed or fluid mattresses specially adapted for chairs, beds or sofas

A47C 27/14

•with foamed material inlays

Codici di classificazione

ECLA A47C-027/00T8D

SECTION A — HUMAN NECESSITIES

A47

**•FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS;
SPICE MILLS; SUCTION CLEANERS IN GENERAL**

A47C

•CHAIRS (seats specially adapted for vehicles); SOFAS; BEDS

A47C 27/00

•Stuffed or fluid mattresses specially adapted for chairs, beds or sofas

A47 C 27/00T

•Mattress tickings or covers

A47C-027/00T8

•Liquid-impermeable

A47C-027/00T8D

•Breathable

Codici di classificazione

IPC C08L-75/04

SECTION C — CHEMISTRY; METALLURGY

C08

•ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING UP; COMPOSITIONS BASED THEREON

C08L

•COMPOSITIONS OF MACROMOLECULAR COMPOUNDS

C08L 75/00

•Compositions of polyureas or polyurethanes; Compositions of derivatives of such polymers

C08L 75/04

•Polyurethanes

Codici di classificazione

IPC C08G 71/04

SECTION C — CHEMISTRY; METALLURGY

C08

•ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING UP; COMPOSITIONS BASED THEREON

C08G

•MACROMOLECULAR COMPOUNDS OBTAINED OTHERWISE THAN BY REACTIONS ONLY INVOLVING CARBON-TO-CARBON UNSATURATED BONDS

C08G 71/00

•Macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a ureide or urethane link, otherwise than from isocyanate radicals

C08G 71/04

•Polyurethanes

Strategie ricerca

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General search

▴ **Keywords**

▾ Title, Abstract ▾

- Title
- Title, Abstract
- Title, Abstract, Claims
- Title, Abstract, Key Content
- Title, Abstract, Key Content, Clai...
- Claims
- Description
- Independent Claims

▾ Title, Abstract ▾

Mattress?? OR Pillow? OR Cushion? OR (Seat_pad?)

Polyurethane? OR (Visco_elastic)

Foam+

Transpir+ OR Breath+ OR (Air_permeable)

▴ **Classifications**

▾ ar ▾ IPC ▾

▴ **Names**

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New

General search

Keywords

⊕ Title, Abstract, Key Content ▾

Classifications

⊕ ▾ IPC ▾ A47C-027/14

Names

Assignee (Original or Current) ▾

Inventor:

Representative:

Numbers, Dates & Country

Publ. number ▾

Date

No Restriction ▾

Publication country:

More fields

⊕ Abstracts ▾

Restriction

Collections

Search in: ☒ world patents grouped by invention-based families containing biblio & full text (FamPat)

Internet |

Storia ricerca

Search Step Results

4 4640

((MATTRESS?? OR PILLOW? OR CUSHION? OR (SEAT_PAD?))/BI/TX AND (POLYURETHANE? OR (VISCO_ELASTIC))/BI/TX AND (FOAM+)/BI/TX AND (TRANSPIR+ OR BREATH+ OR (AIR_PERMEABLE))/BI/TX)

Full-text

3 301

((MATTRESS?? OR PILLOW? OR CUSHION? OR (SEAT_PAD?))/BI/SA/CLMS AND (POLYURETHANE? OR (VISCO_ELASTIC))/BI/SA/CLMS AND (FOAM+)/BI/SA/CLMS AND (TRANSPIR+ OR BREATH+ OR (AIR_PERMEABLE))/BI/SA/CLMS)

Title and abstract and key-content and claims

2 114

((MATTRESS?? OR PILLOW? OR CUSHION? OR (SEAT_PAD?))/BI/SA AND (POLYURETHANE? OR (VISCO_ELASTIC))/BI/SA AND (FOAM+)/BI/SA AND (TRANSPIR+ OR BREATH+ OR (AIR_PERMEABLE))/BI/SA)

Title and abstract and key-content

1 52

((MATTRESS?? OR PILLOW? OR CUSHION? OR (SEAT_PAD?))/BI AND (POLYURETHANE? OR (VISCO_ELASTIC))/BI AND (FOAM+)/BI AND (TRANSPIR+ OR BREATH+ OR (AIR_PERMEABLE))/BI)

Title and abstract

Storia ricerca

Search Step Results

9	0	(MATTRESS POLYURETHANE FOAM TRANSPIRING)/BI/TX Parole chiave senza troncature e operatori prossimità in full-text
8	141	(MATTRESS?? OR PILLOW? OR CUSHION? OR (SEAT_PAD?))/BI/SA AND (C08L-075/04 OR C08G-071/04)/IC Codice «Poliuretano» e parole chiave in Title and abstract
7	505	(POLYURETHANE? OR VISCOELASTIC)/BI AND (A47C-027/14)/IC Codice «Materasso» e parole chiave in Title and abstract
6	6566	(A47C-027/14)/IC Codice
5	102	((MATTRESS?? OR PILLOW? OR CUSHION? OR (SEAT_PAD?))/BI/TX S (POLYURETHANE? OR (VISCO_ELASTIC))/BI/TX S (FOAM+)/BI/TX S (TRANSPIR+ OR BREATH+ OR (AIR_PERMEABLE))/BI/TX) Full-text con operatore prossimità S

Troncature e operatori di prossimità

TRUNCATIONS

Truncation or wildcards are symbols that replace one or more characters, which lets you search for different variations of a term. All truncation symbols are used at the beginning, end and embedded in the words. The shortened term must be at least three characters for truncation to properly function. Wildcards may be used in any area of the assistant general search, except with "Keywords" when the multilingual assistant is used. There, truncation is ignored.

+ or *	Truncation replacing any number of characters	Bicycle-shed+ inflammatory
?	Truncation replacing zero or one character	bicycle? alumin?um
#	Truncation replaces exactly one character	Polymer#ation

OPERATORS

OR	Finds references containing at least one of the words	sulfur or sulphur
AND	All words	plutonium AND isotope
NOT	The first term without the second term	suv NOT vesicle
F	The terms in the same field	sodium f chlorine
S	The terms in the same sentence	sodium s chlorine
P	The terms in the same paragraph	sodium p chlorine
D	The terms adjacent in any order	redundancy d check

Esame risultati

Esempio risultato pertinente da step 2

US7950084 Titolo: Multi-layer mattress with an air filtration foundation

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Biblio Claims **Key Content** Fulltext

Concepts Kwic

Object of Invention (US7950084)

The present invention relates generally to **mattresses** and, more particularly, to a multi-layer **mattress**, which is comprised of various **foam** materials.

To overcome the disadvantages noted above, the present invention is directed to a **breathable mattress** including a plurality of layers, where one of the **mattress** layers may be further comprised of a plurality of sections and the sections are comprised of different types of materials, which have varying firmnesses and feel and which may also be comprised of material that is perforated or of an open-cell structure to allow for air circulation, and an air filtration foundation capable of creating an air flow within the **mattress**.

Advantages / Prev. Drawbacks (US7950084)

It is advantageous to use latex **foam** in connection with **mattresses** because latex **foam** is capable of molding to the shape of an object that interfaces with the latex **foam**, while also providing support to the object.

A common problem associated with **mattresses** is that they are not customized to support the bodies of their users.

A common problem with these materials, however, is that they prevent air circulation between the **mattress** layers.

Independent Claims (US7950084)

1. A **mattress**, comprising: a plurality of layers, each layer extending in a substantially parallel, horizontal direction and being positioned in vertical relation to the other layers; at least one layer being comprised of material selected from the group consisting of convoluted latex, regular latex, **viscoelastic polyurethane**, regular **polyurethane** or convoluted **polyurethane**; at least one layer being comprised of a **foam** material with an open-cell structure; an air filtration foundation coupled to the **mattress** wherein the air filtration foundation includes a fan assembly; wherein each of the layers is comprised of material that allows air to flow through the layer; and wherein the fan assembly displaces air of varying temperatures.
5. A **mattress**, comprising: a plurality of layers, each layer extending in a substantially parallel, horizontal direction and being positioned in vertical relation to the other layers; at least one layer being comprised of material selected from the group consisting of convoluted latex, regular latex, **viscoelastic polyurethane**, regular **polyurethane** or convoluted **polyurethane**; at least one layer being comprised of reticulated **foam**; at least one layer being comprised of a **foam** material with an open-cell structure; an air filtration foundation coupled to the **mattress**, the air filtration foundation includes a fan assembly and a filter assembly; wherein each of the layers is comprised of material that allows air to flow through the layer; and wherein the filter assembly includes a filter that is selected from the group consisting of HEPA, HEGA, carbon, carbon-zeolite, ionic, ozone, or ultra-violet filters.
9. A **mattress**, comprising: a plurality of layers, each layer extending in a substantially parallel, horizontal direction and being positioned in vertical relation to the other layers; at least one layer being comprised of material selected from the group consisting of convoluted latex, regular latex, **viscoelastic polyurethane**, regular **polyurethane** or convoluted **polyurethane**; at least one layer

AIR FILTRATION FOUNDATION | BREATHABLE MATTRESS | CELL FOAM | COMFORT LAYER | COMMON PROBLEM | CONVOLUTED LATEX | CONVOLUTED POLYURETHANE | CUSTOMIZED MATTRESS | FAN ASSEMBLY | FEEL | FILTER ASSEMBLY | FIRMNESS RATING | FOAM MATERIAL | FOAM VARIETY | HEPA | HORIZONTAL DIRECTION | LATEX FOAM | LATEX FOAM RUBBER | MATTRESS CIRCULATION | MATTRESS CONSTRUCTION | MATTRESS FOOT | MATTRESS HEAD | MATTRESS LAYER | MATTRESS SIDE | MATTRESS USER | MULTILAYER MATTRESS | OPEN CELL STRUCTURE | OZONE | POLYURETHANE FOAM | REGULAR LATEX | REGULAR POLYURETHANE | REGULAR POLYURETHANE OR CONVOLUTED POLYURETHANE | RETICULATED FOAM | SOLID POLYURETHANE | ULTRA VIOLET FILTER | VARYING FIRMNESSES | VARYING TEMPERATURE AIR | VARYING TEMPERATURE SUPPLYING AIR | VERTICAL RELATION | VISCOELASTIC FOAM COMBINATION | VISCOELASTIC POLYURETHANE |

Record 4 of 114

Displaying records 1 - 25 of

Internet | Modalità protetta: disattivata

Esempio risultato non pertinente da step 4

US20110265796 Titolo Respiratory mask

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Biblio Claims Key Content Fulltext

Conc Kwic

RESPIRATORY MASK

Abstract
(US20110265796)
A respiratory mask assembly for use with a patient, and that is suited for use with children ranging in age from about 2-7 years, includes a flexible patient interface structure arranged to interface with and deliver air to the patient's nose, the patient interface structure including cylindrical protrusions extending from respective opposite sides of the patient interface structure adjacent the patient's nares; a frame configured to support the patient interface structure, the frame including a pair of cylinders, each cylinder configured to receive a respective cylindrical protrusion of the patient interface structure; headgear arranged for releasable attachment to the frame; an air delivery tube connected to either one of the cylindrical protrusions; and a plug connected to the other one of the cylindrical protrusions.

Inventor(s) AMARASINGHE Amal Shirley Johnson Ian Fredrick Norcott Alison Ruth Ozolins Angelene Marie Siu Eric Veliss Lee James Wells Alicia Kristianne

Assignee RESMED

Patent Assignee (Original) ResMed Limited; Bella Vista [AU]

Published As

Publ. number	Pub. date	Appl. number	Appl. date	Publ. Stage	Links
US20110265796	20111103	2011US-13097501	20110429	A1 - Fi	   

Priority Details
2011US-0097501 20110429

US Class Code
128206210 128206280

Intl. classification
A62B-018/00
A62B-018/02

IPC Advanced All
A62B-018/02 [2006-01 A F I B H US]

IPC Core All

Record 3 of 4640

RESPIRATORY MASK

Inventor(s) AMARASINGHE Amal Shirley Johnson Ian Fredrick Norcott Alison Ruth Ozolins Angelene Marie Siu Eric Veliss Lee James Wells Alicia Kristianne

Assignee RESMED

Published As

Publ. number	Pub. date	Appl. number	Appl. date	Publ. Stage	Links
US20110265796	20111103	2011US-13097501	20110429	A1 - Fi	   

English Claims
(US20110265796)
A patient interface system for delivering **breathable** gas to a patient, comprising: a flexible patient interface structure arranged to interface with and deliver air to a nose of the patient in use, th(...)
3. A patient interface system according to claim 2, wherein the elastomeric material comprises silicone or **foam**.
109. A patient interface system according to claim 1, further comprising at least one orientation element adapted to indicate a correct orientation between the frame and the **cushion**.
110. A patient interface system according to claim 109, wherein the at least one orientation element comprises indicia on the **cushion**.
111. A patient interface system according to claim 109, wherein the at least one orientation element comprises a post on the **cushion**.
(...) to claim 109, wherein the at least one orientation element comprises a thickened portion of the **cushion** and an aperture provided in the frame, wherein the thickened portion of the **cushion** is shaped to be received by the aperture of the frame.
114. A patient interface system for delivering **breathable** gas to a patient according to claim 29, wherein the thickened portion of the flexible patient interface structure is shaped to conform to the (...)

Description
(US20110265796)
(...)Airway Pressure Devices (CPAP), flow generators or blowers in the treatment of sleep disordered **breathing** (SDB), such as Obstructive Sleep Apnea (OSA), typically include a soft-patient contacting portion, such as a **cushion**, and a rigid shell or frame. In use, the patient interface is held in a sealing

Displaying records 1 - 25 of 4640

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Analisi statistica

Analisi statistica

Risultati ricerca codice IPC A47C-027/14

http://statsprd.questel.fr/PRD/stat_tempo.aspx?Lang=en&GRPID=A4101L1&ID=662a288c83624e5981475e84a76e98ee&def=1

6566 results for (A47C-027/14)/IC

FAMPAT		Clear selection
		6566 results are selected.
#	Title	Original or current assign
1	USING A SOFTWARE APPLICATION TO CONFIGURE A FOAM SPRING MATTRESS	RAWLS-MEEHAN MARTIN
2	METHOD FOR PREPARING ENVIRONMENTALLY FRIENDLY CUSHION MAT FOR INTELLIGENCE DEVELOPMENT, AND CUSHION MAT	LIVING PRADISE COLTD
3	POLYURETHANE FOAM FOR SEAT PAD	BRIDGESTONE
4	RECONFIGURABLE MATTRESS	RAWLS-MEEHAN MARTIN
5	Perfectionnements à la fabrication des matelas et coussins en matériaux spongieux et matelas ou coussins comportant ces perfectionnements	MATIERES ALVEOLEES S
6	(U) One kind of company writing style soft deck chair [Machine Translation]	WU MINGHUA
7	(A) Epidermal one foaming item [Machine Translation]	TACHI S
8	(A) Production method of seat pad [Machine Translation]	TOYO TIRE & RUBBER
9	(A) One kind of barometric pressure fluctuation massage mattress [Machine Translation]	HAO HAO OF ZHEJIANG I
10	(U) One kind of thick cushion sofa [Machine Translation]	CHINESE SOIL
11	(U) One kind of apple shape back back cushion [Machine Translation]	ZHANG JIA NA
12	(U) One kind of trapezoidal shape back back cushion [Machine Translation]	ZHAO BUD
13	FOAM SPRING MATTRESS CONFIGURED WITH VARIABLE FIRMNESS	RAWLS-MEEHAN MARTIN
14	(U) Integration mattress [Machine Translation]	WYNN TECHNOLOGY PR
15	(U) Expands the cushion [Machine Translation]	WYNN TECHNOLOGY PR
16	(U) Angle transformation mattress [Machine Translation]	WYNN TECHNOLOGY PR
17	(U) But adjustment mattress [Machine Translation]	WYNN TECHNOLOGY PR
18	(U) Two-sided cushions [Machine Translation]	WYNN TECHNOLOGY PR
19	BEDBUG INFESTATION RESISTANT FIDMITHIDE	CENTRAL CITY CONCERN

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Internet | Modalità protetta: disattivata

Analisi statistica

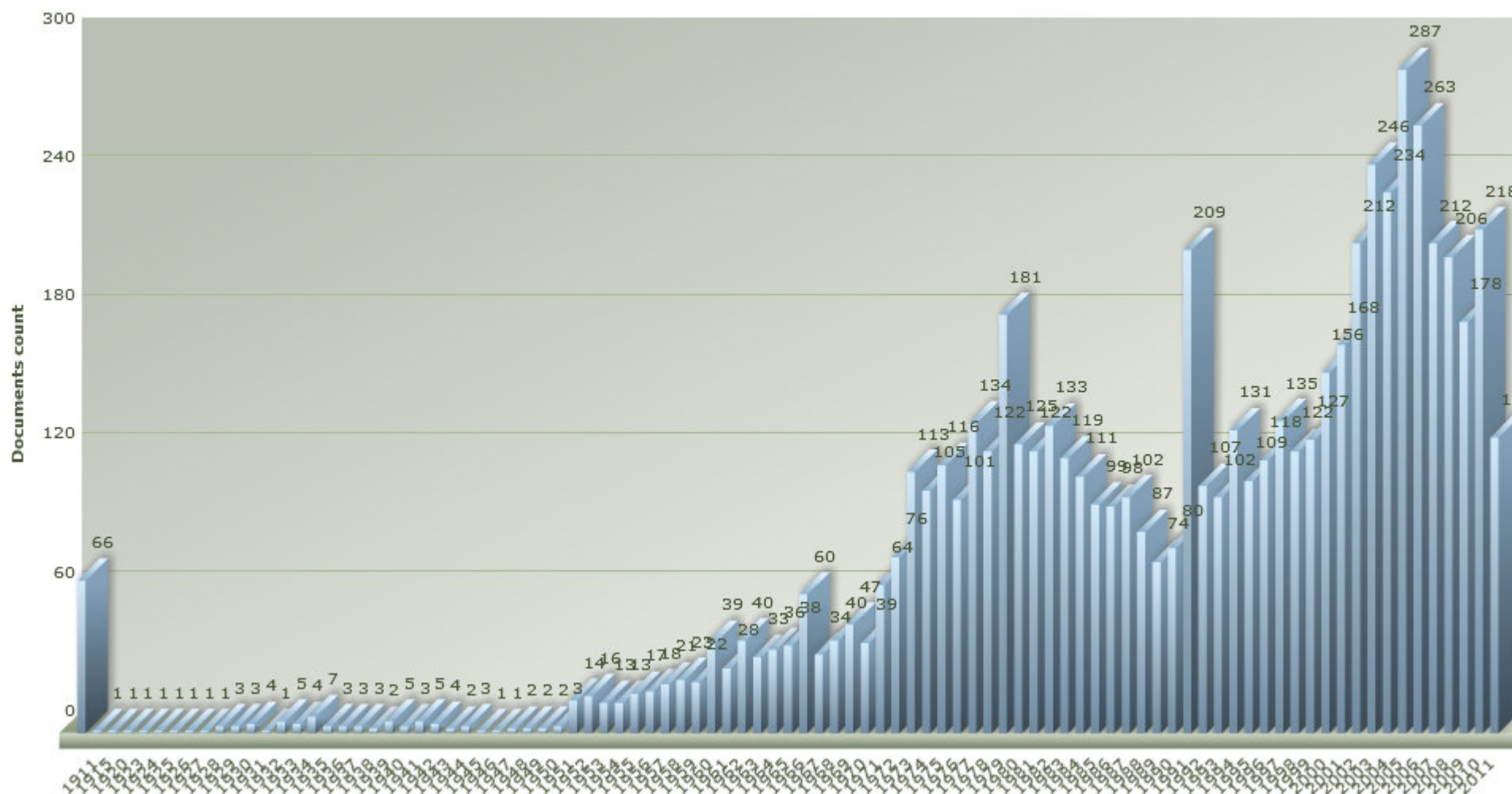
analisi, visualizzazione grafici interattivi, esporto

Documents	Assignees	Inventors	Technologies	Data crossing	Semantic (beta)	Semantic (beta)	Graphic size
Distribution by date (PR)	Top assignees	Top inventors	IPC	Assignee/IPC	Concepts tag		
Patent country	Evolution	Appearance	IPC sub-classes	Assignee/ECLA	Concepts treemap (beta)		
Originating country	Acceleration	Acceleration	ECLA codes	Assignee/US Class	Cluster view (beta)		
Patent country timeline	Assignee timeline	Collaboration	USC	Assignee/FI Terms	Assignee/Concept/Bubble (beta)		
Originating country timeline	Collaboration	Citations map	FIT	Assignee/Inventor	Assignee/Concept (beta)		
Patent country acceleration	Assignee citations timeline	Self citations		Assignee/IPC/Bubble	Administration (beta)		
Originating country acceleration	Patents age	Grouping		Assignee/ECLA/Bubble			
Patents kind codes				Assignee/US Class/Bubble			
Citations				Assignee/FI Terms/Bubble			
				Assignee/PR Countries/Bubble			
				Technologies	Data crossing	Semantic	
				IPC	Top IPCs		
				IPC sub-classes	IPC tag cloud		
				ECLA codes	IPC evolution		
				USC	IPC appearance		
				FIT	IPC acceleration		
					IPC timeline		

Distribuzione data di pubblicazione

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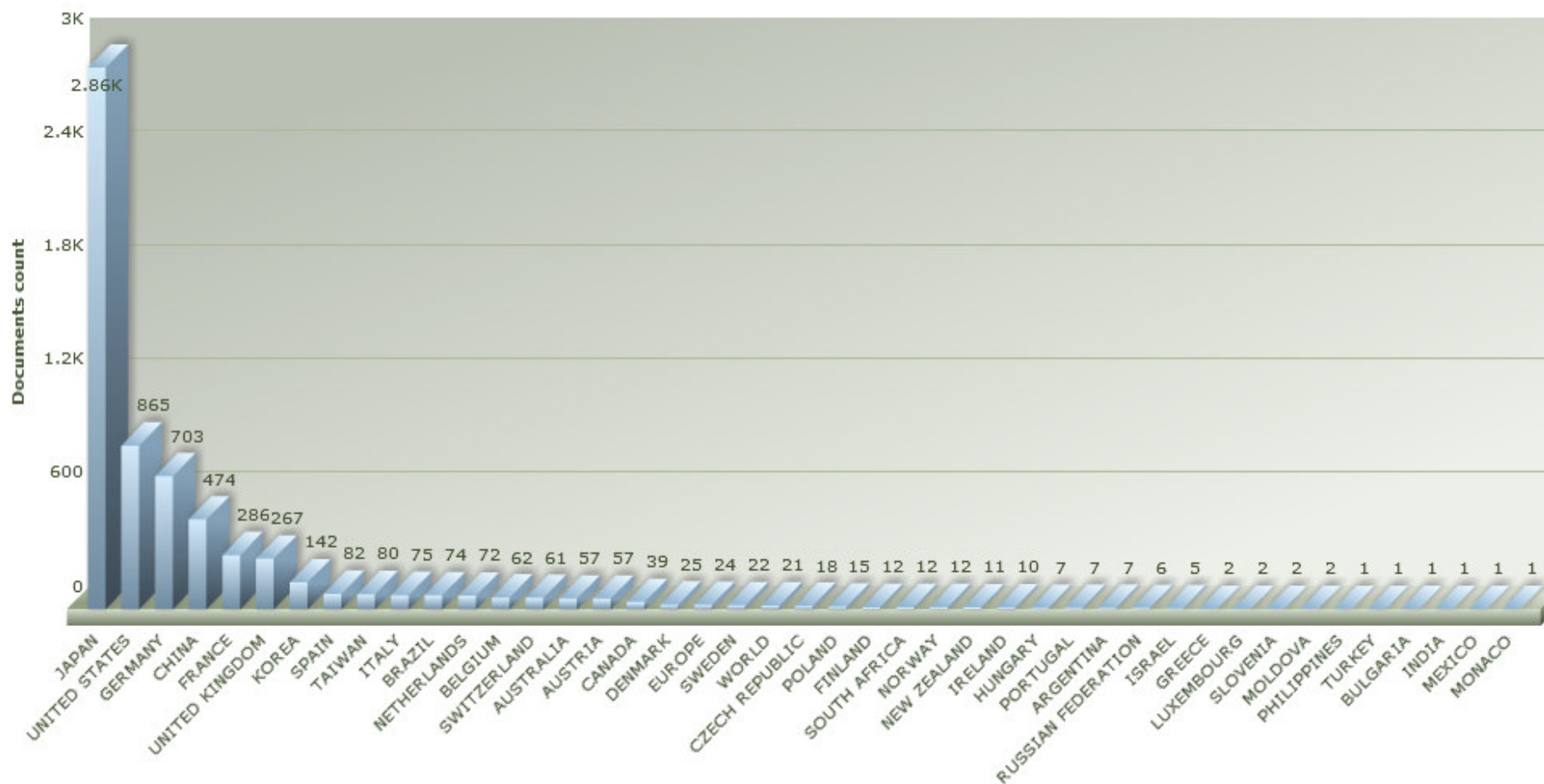
Distribution by date (Publication date) ⓘ



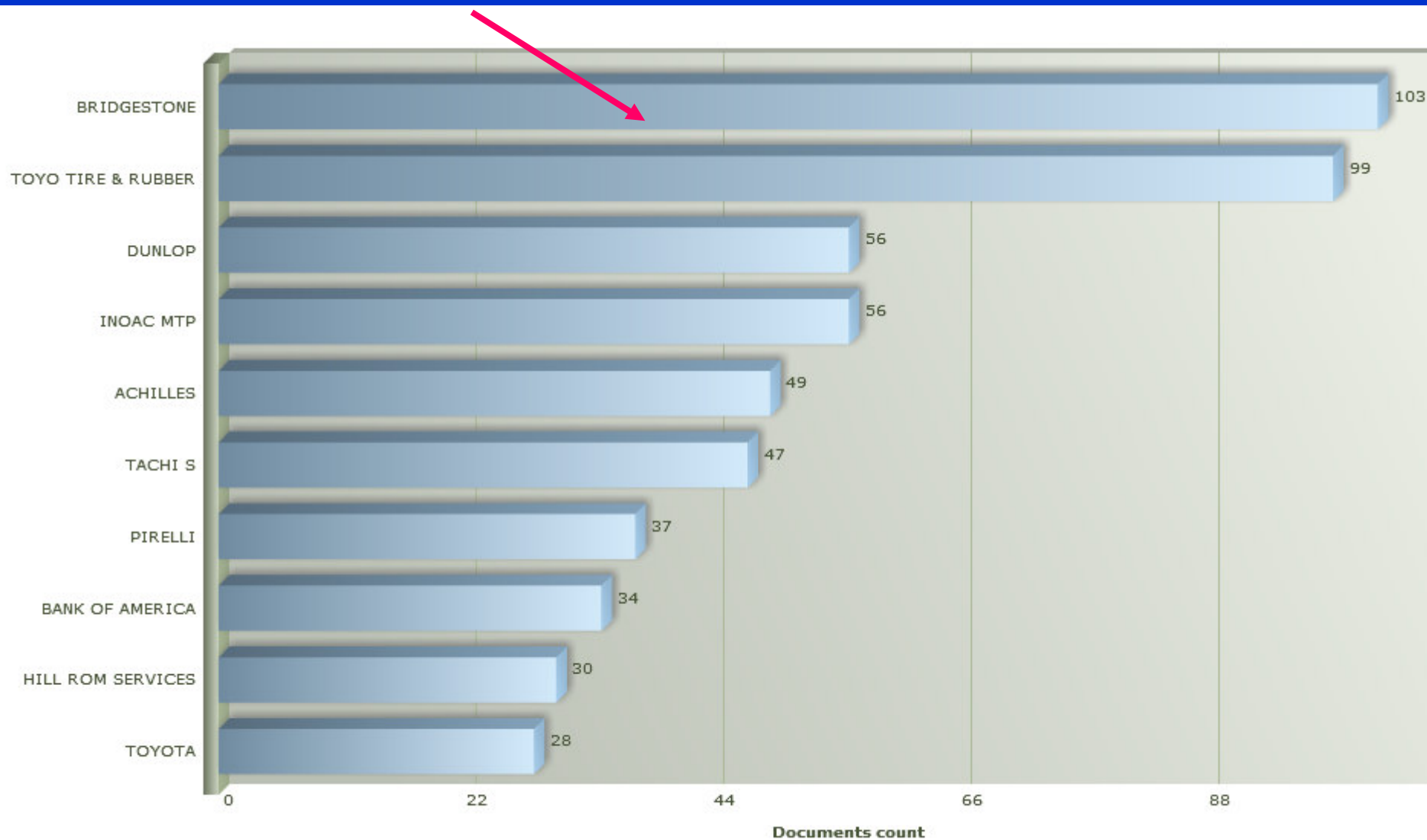
Distribuzione paese priorità

(A47C-027/14)/IC

Geographical Distribution of patents based on country priority 



Principali 10 depositanti



Lista di documenti corrispondenti depositante Bridgestone

BRIDGESTONE, BRIDGESTONE KASEIHIN CHUBU, BRIDGESTONE KASEIHIN KYUSHU, BRIDGESTONE KASEIHIN NISHINIHO, BRIDGESTONE KASEIHIN OSAKA, BRIDGESTONE

	Title	PN
1	POLYURETHANE FOAM FOR SEAT PAD	WO2011132645A1
2	(A) Sheet pad [Machine Translation]	JP2011147542A
3	SUPPORT MATERIAL, FOAM MOLDING MEMBER AND FOAM MOLDING METHOD	JP2011110798A
4	FOAM MOLDED MEMBER AND METHOD FOR MANUFACTURING THE SAME	JP2011055943A
5	FOAMED MOLDING FOR SEAT PAD AND METHOD FOR MANUFACTURING SEAT PAD	JP2011045548A
6	SEAT PAD AND SEAT	JP2011041707A
7	METHOD AND FACILITY FOR MANUFACTURING A MOLDED ARTICLE OF FOAMED RESIN	JP2011042055A WO2011021651A1
8	SEAT CUSHION PAD	JP2010284249A
9	SHEET PAD	JP2010273963A
10	POLYURETHANE FOAM FOR SEAT PAD	JP2010260928A
11	SEAT PAD	JP2010259535A WO2010125984A1
12	CUSHION PAD MOLDING MOLD AND METHOD OF MANUFACTURING CUSHION PAD USING THE MOLDING MOLD	JP2010240984A
13	SEAT PAD AND PRODUCTION METHOD THEREOF	JP2010227302A
14	CUSHION PAD MOLDING MOLD AND METHOD FOR PRODUCING CUSHION PAD USING THE MOLD	JP2010201825A
15	SEAT PAD	JP2010200906A
16	SEAT PAD	WO2010100880A1
17	SEAT PAD	JP2010187996A
18	SEAT PAD FOR VEHICLE	JP2010184085A
19	VEHICLE SEAT PAD	JP2010046408A
20	SEAT PAD, METHOD OF MANUFACTURING THE SAME, AND MOLD	JP2010046407A
21	VEHICULAR SEAT PAD	JP2010036807A

Documento WO201132645

Patent Number: WO2011132645 A1 20111027

POLYURETHANE FOAM FOR SEAT PAD

(WO2011132645)

シートパッド用ポリウレタンフォーム

(WO2011132645)

Provided is polyurethane foam made through foam molding of a foam liquid solution containing a polyol component (A), a polyisocyanate component (B), water (C), and a catalyst (D). The polyol component (A) contains 40-55 mass percent of a polyether polyol (a-1) that has a number average molecular weight of 6,000-8,000, and which has repeating units with a mole ratio of 5/95-25/75 derived from ethylene oxide and propylene oxide, and also contains 5-15 mass percent of a polyether polyol (a-2) that has a number average molecular weight of 600-2,000, and which has repeating units with a mole ratio of 0/100-20/80 derived from ethylene oxide and propylene oxide. For each 100 mass units of the polyol component (A), there are at least 2.0 mass units of water (C). Thus is provided polyurethane foam for a seat pad that achieves a balance of reduced shakiness and reduced stress relaxation, and specifically, is optimal for a vehicle seat pad.

Inventor: YOSHITOMI KOSUKE

Patent Assignee: BRIDGESTONE

Orig. Applicant/Assignee: BRIDGESTONE CORPORATION; / 10-1, Kyobashi 1-chome, Chuo-ku, Tokyo, 1048340 (JP) (except US)
YOSHITOMI, Kosuke; / c/o Bridgestone Corporation, Yokohama Factory, 1, Kashio-cho, Totsuka-ku, Yokohama-shi, Kanagawa, 2448510 (JP) (only US)

Patent Assignee History: (A1) BRIDGESTONE CORP (JP); YOSHITOMI KOSUKE (JP)

FamPat family

Publication Number	Kind	Publication date	Links
WO2011132645	A1	20111027	  
STG:	International publication with international search report		
AP:	2011WO-JP59555 20110418		

Priority Nbr: 2010JP-0096077 20100419

Designated States: (WO2011132645)

AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CL CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK
LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
ARIPO patent: BW GH GM KE LR LS MW MZ NA SD SL SZ TZ UG ZM ZW
Eurasian patent: AM AZ BY KG KZ MD RU TJ TM
European patent: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Principali 50 concetti

(A47C-027/14)IC

Tag cloud for top 50 concepts(6566 Documents) 

Top 50 

Max Occ.  80  Max Year 2011 Duration 42

OK



AUTOMOBILE | BED MATTRESS | BLOOD CIRCULATION | COIL SPRING | COMFORT | COMPRESSIBLE MATERIAL | CUBIC FOOT | CUSHION | DECUBITUS ULCER FORMATION | DEFLECTION | FASTENER |
FLUID COMMUNICATION | FOAM BLOCK | FOAM BODY | FOAM LAYER | FOAM MATERIAL | FOAM MATTRESS | FOAM PAD | FOAM RUBBER | FURNITURE PIECE | HARDNESS | HUMAN BODY | INDENTATION |
INFLATABLE BLADDER | INTERNATIONAL BUREAU | LATEX FOAM | MANUFACTURING METHOD | **MATTRESS** | MATTRESS ASSEMBLY | MATTRESS CONSTRUCTION | MATTRESS CORE | MATTRESS
COVER | MATTRESS EDGE | MATTRESS PAD | MATTRESS THICKNESS | MATTRESS TOPPER | MATTRESS WIDTH | MIDDLE LAYER | MOLD | PERSON BODY | PILLOW | **POLYURETHANE FOAM** | PRESSURE
RELIEF | **SEAT CUSHION** | SPRING | USER BUTTOCK | USER COMFORT | VEHICLE SEAT | VISCO ELASTIC FOAM | VISCOELASTIC FOAM |

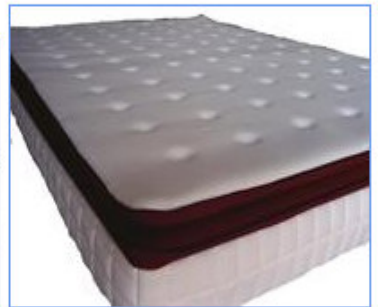
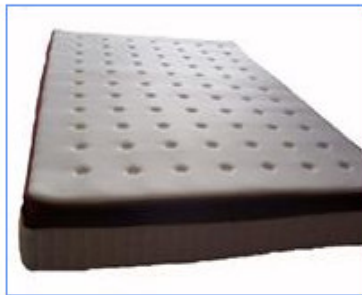
Design

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Mattresses

Registration Number	001656158-0001
Register	 EU
Reg. Owner	LO MONACO HOGAR, S.L., Polígono Industrial Asegra. Almería., 8, E-18210 Peligros (Granada), ESPAÑA
Application Date	2010-01-13
Publication Date	2011-03-11
Locarno	06-09



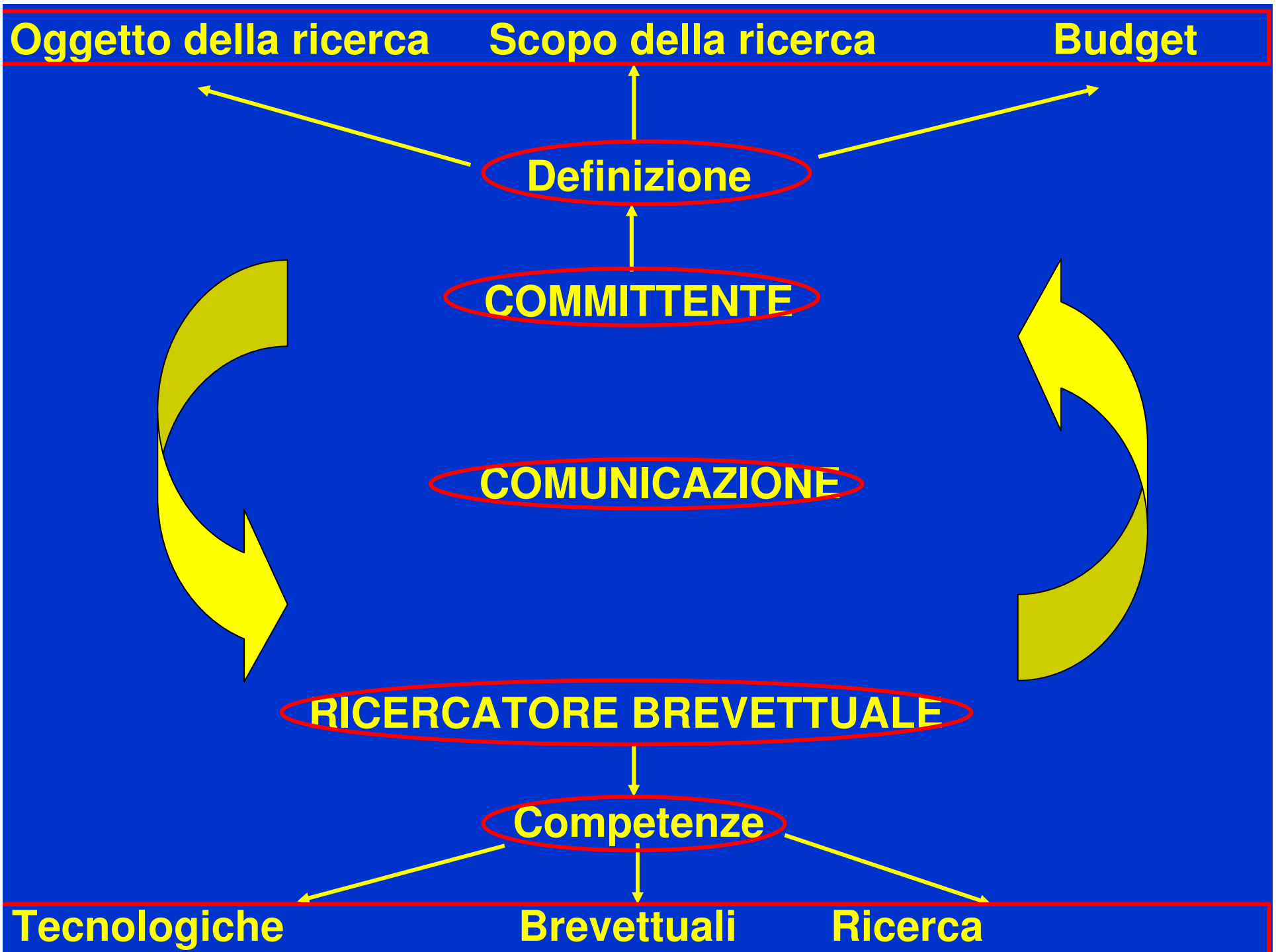
Registration Date	2010-01-13
Expiry Date of deferment	2011-03-11
Application Number	001656158-0001
Language of Filing	ES EN
Creator	Livio Lo Monaco
Agent Name and Address	CLARKE, MODET Y CIA., S.L., Rambla Méndez Núñez, 12, 6° A, E-03002 Alicante, ESPAÑA
Legal Status	2010-01-26 - Registration of Community designs with request for deferment - First publication Article 50 CDR and Article 14(3) CDIR 2011-03-11 - Registered and fully published (A1)

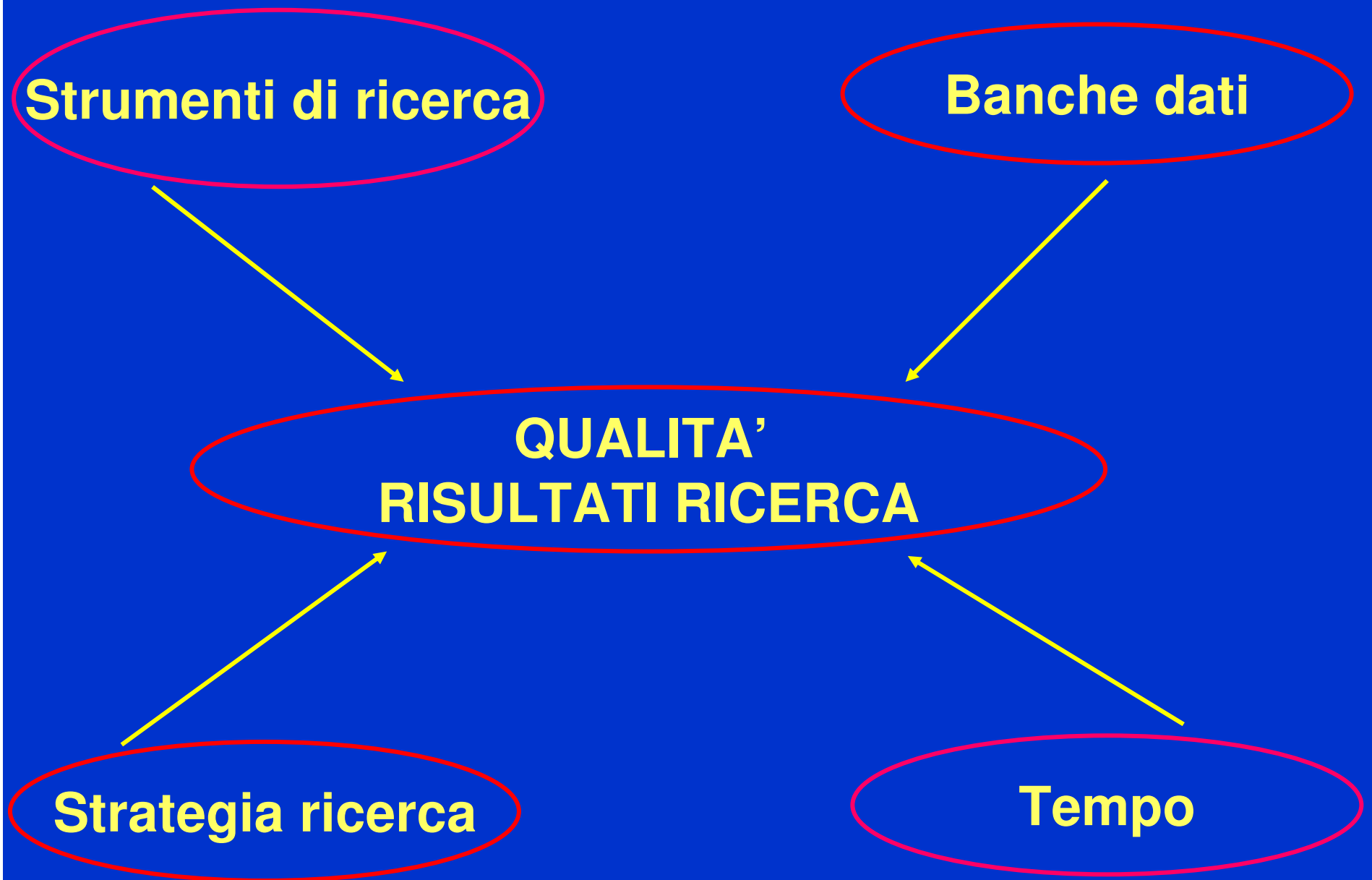
⬇ Record 85 of 1857 ⬆



Internet | Modalità protetta: disattiva

Alcune considerazioni





Grazie!

Rosella
Orsello

e-mail: rosella@questel.com