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DIPARTIMENTO  
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# Ricerca di anteriorità: istruzioni per l'uso

RICERCA E ANALISI BREVETTUALE: Quali vantaggi per le imprese?

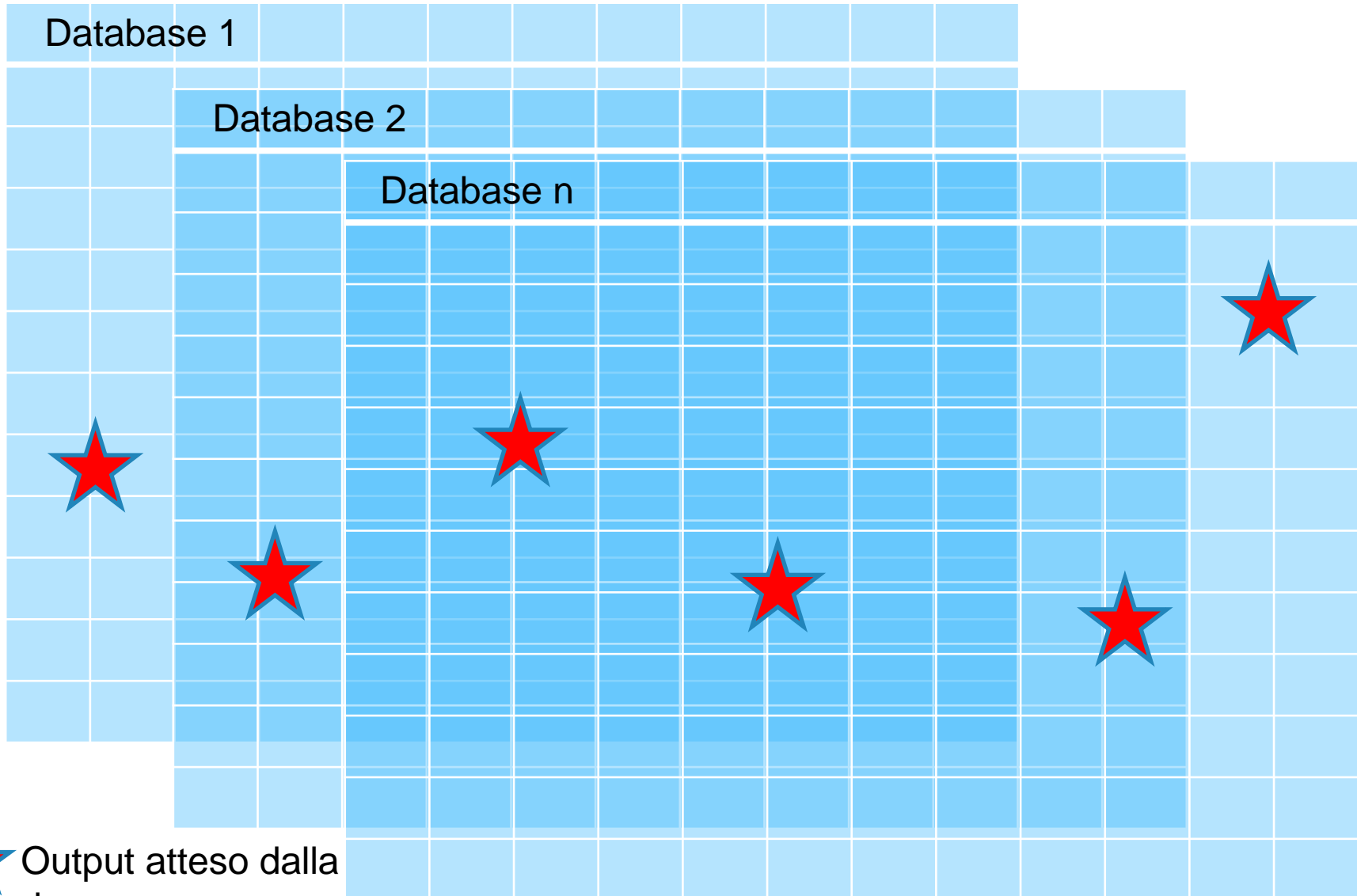
*Ing. Federico Rotini*

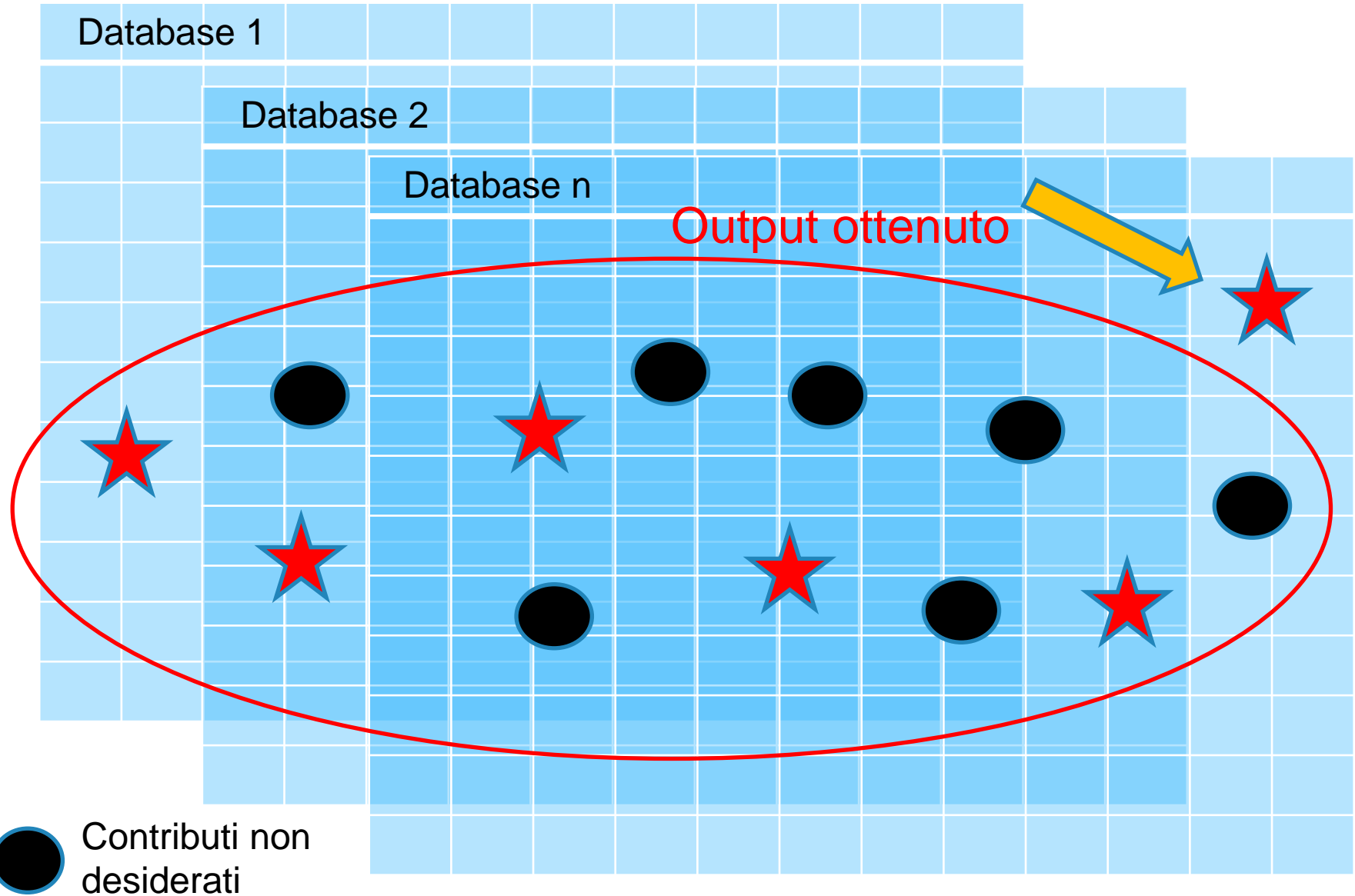
*Pisa, 11 Aprile 2014*

- Tipologia delle ricerche, finalità e utilità
- Il problema della ricerca
- Approccio alla ricerca
- Analisi dei risultati
- Esempio

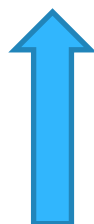
- Ricerche brevettuali e ricerche di anteriorità:
  - *Ricerche brevettuali*: recupero di conoscenza tecnica da fonti di informazione di carattere esclusivamente brevettuale
  - *Ricerche di anteriorità*: recupero di conoscenza tecnica da fonti di informazione commerciale, tecnica e scientifica (quindi non soltanto brevetti...)
  - Tutto ciò che è noto costituisce anteriorità e quindi non è più brevettabile (vengono meno i requisiti di novità e originalità)

- A cosa possono servire i risultati delle ricerche:
  - Acquisire elementi per supportare le decisioni aziendali in merito (almeno) a:
    - *Pianificazione di nuovi prodotti/processi/servizi:*
      - definire strategie di innovazione e di posizionamento sulla base del know-how tecnologico dei competitors;
    - *Progettazione di prodotti/processi/servizi:*
      - orientare l'attività di ricerca delle soluzioni verso risultati il più possibile nuovi e originali;
    - *Tutela del trovato:*
      - procedere o meno a chiedere una tutela brevettuale;
      - scrivere in maniera più "robusta" il brevetto
    - ...





- Considerazioni


$$\text{“Rendimento”} = \frac{\text{Contributi pertinenti}}{\text{Contributi recuperati}}$$

- l’obiettivo è quello di massimizzare il rapporto tra contributi pertinenti (interessanti) e contributi recuperati al fine di ridurre il più possibile il tempo che occorre a consultare i documenti ricavati ed estrarre le informazioni interessanti (analisi)
- esaustività: identificare effettivamente TUTTI i contributi pertinenti

- Attività da svolgere:
  - – definire l'oggetto (il risultato atteso)
  - – definire i criteri di ricerca testuale: parole chiave, loro combinazione, sezioni del documento entro cui cercare (campi di ricerca)
  - – Individuare i settori industriali pertinenti: classi brevettuali;
  - – selezionare le fonti di informazione da consultare: database;
  - ← – analizzare l'output ottenuto



- Database brevettuali


Database – tool di ricerca	Brevetti
Esp@cenet	Worldwide (con criteri di ricerca limitati); EP e WO
USPTO	US
Patentscope	WO, euroasiatici, America Latina, Africa
DEPATISnet	<i>worldwide</i>
Google Patent	<i>US</i>

Sono liberi e navigabili via web!!!!

## • Database brevettuali

- **EPO** (European Patent Office) <http://www.epo.org/index.html>  
Esp@cenet <http://worldwide.espacenet.com/>  
Advanced search [http://worldwide.espacenet.com/advancedSearch?locale=en\\_EP](http://worldwide.espacenet.com/advancedSearch?locale=en_EP)  
Classification search (EP) [http://worldwide.espacenet.com/classification?locale=en\\_EP](http://worldwide.espacenet.com/classification?locale=en_EP)
- **USPTO** (United States Patent and Trademark Office) <http://www.uspto.gov/>  
Patent search database <http://www.uspto.gov/patft/index.html>  
Quick search (Issued patents) <http://patft.uspto.gov/netahtml/PTO/search-bool.html>  
Advanced search (Issued patents) <http://patft.uspto.gov/netahtml/PTO/search-adv.htm>  
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US classification <http://www.uspto.gov/go/classification/selectnumwithtitle.htm>  
<http://www.uspto.gov/go/classification/>  
PDF of US patents <http://www.pat2pdf.org/>
- **UIBM** (Ufficio Italiano Brevetti e Marchi) <http://www.uibm.gov.it/>  
Ricerca dati <http://www.uibm.gov.it/uibm/dati/?61,12>
- **WIPO** (World Intellectual Property Organization) <http://www.wipo.int/portal/index.html.en>  
Patentscope <http://patentscope.wipo.int/search/en/search.jsf/>  
IPC <http://www.wipo.int/classifications/ipc/en/>  
Patent Cooperation Treaty <http://www.wipo.int/pct/en/index.html>

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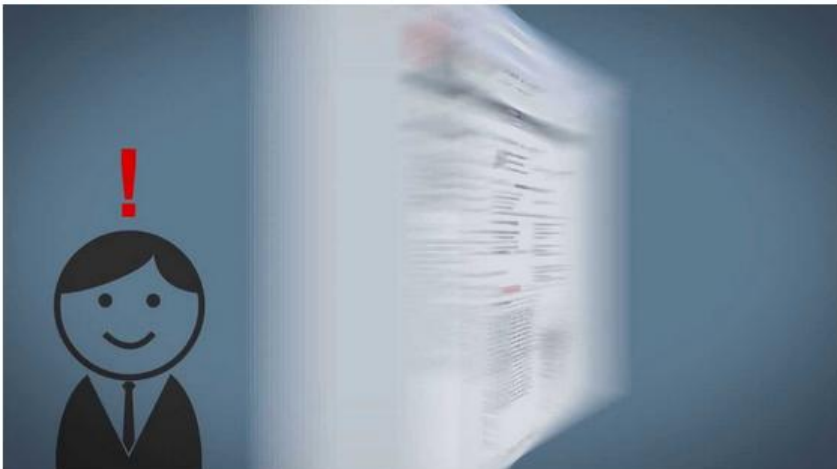
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Enter keywords in English

Title:  plastic and bicycle

Title or abstract:  hair

Enter numbers with or without country code

Publication number:  WO2008014520

Application number:  DE19971031696

Priority number:  WO1995US15925

Enter one or more dates or date ranges

Publication date:

yyyymmdd

Enter name of one or more persons/organisations

Applicant(s):

Institut Pasteur

Inventor(s):

Smith

Enter one or more classification symbols

CPC

IPC

H03M1/12

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Application number: [i](#)

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EP - complete collection including full text of European published applications

Enter your search terms - CTRL-ENTER expands the field you are in

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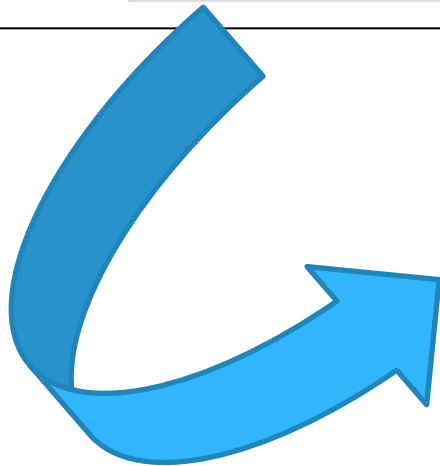
Title: [i](#) e.g. motor

Title or abstract: [i](#) e.g. hair

Keyword(s) in full text: [i](#) e.g. hair

Enter numbers with or without country code

Publication number: [i](#) e.g. EP1883031



- Database navigabili da Esp@cenet e campi di ricerca testuale disponibili

Database	Campi di ricerca
Worldwide	Keywords in title, keywords in title or abstract, publication number, application number, priority number, publication date, applicant, inventor, ECLA class, IPC class
European Patents	Keywords in title, keywords in title or abstract, keywords in full text, publication number, application number, priority number, publication date, applicant, inventor, IPC class
WIPO patents	Keywords in title, keywords in title or abstract, keywords in full text, publication number, application number, priority number, publication date, applicant, inventor, IPC class

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Approximately 874 results found in the Worldwide database for:  
**bottle AND mineral** in the title or abstract  
Only the first 500 results are displayed.

1 ▶

Results are sorted by date of upload in database

### 1. NIPPLE AND CAP OF NURSING BOTTLE WITHOUT BRUSHING

★ <b>Inventor:</b> YANG PENGFEI [CN] YANG WENSONG [CN]	<b>Applicant:</b> YANG PENGFEI [CN] YANG WENSONG [CN]	<b>CPC:</b>	<b>IPC:</b> A61J11/04	<b>Publication info:</b> WO2013016848 (A1) 2013-02-07	<b>Priority date:</b> 2011-07-29
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### 2. Functional liquid container for use as e.g. reusable bottle for mineral water, has wall made of shape memory polymer, where container exhibits capacity volumes in switching states and one of capacity volumes is less than other volume

★ <b>Inventor:</b> PRETSCH THORSTEN [DE]	<b>Applicant:</b> BAM BUNDESANSTALT MATFORSCHUNG [DE]	<b>CPC:</b> <a href="#">B65D1/0207</a> <a href="#">B65D21/08</a> <a href="#">B65D2203/10</a>	<b>IPC:</b> B65D21/08 B65D6/00 B65D65/38 (+1)	<b>Publication info:</b> DE102011050569 (A1) 2012-11-29	<b>Priority date:</b> 2011-05-23
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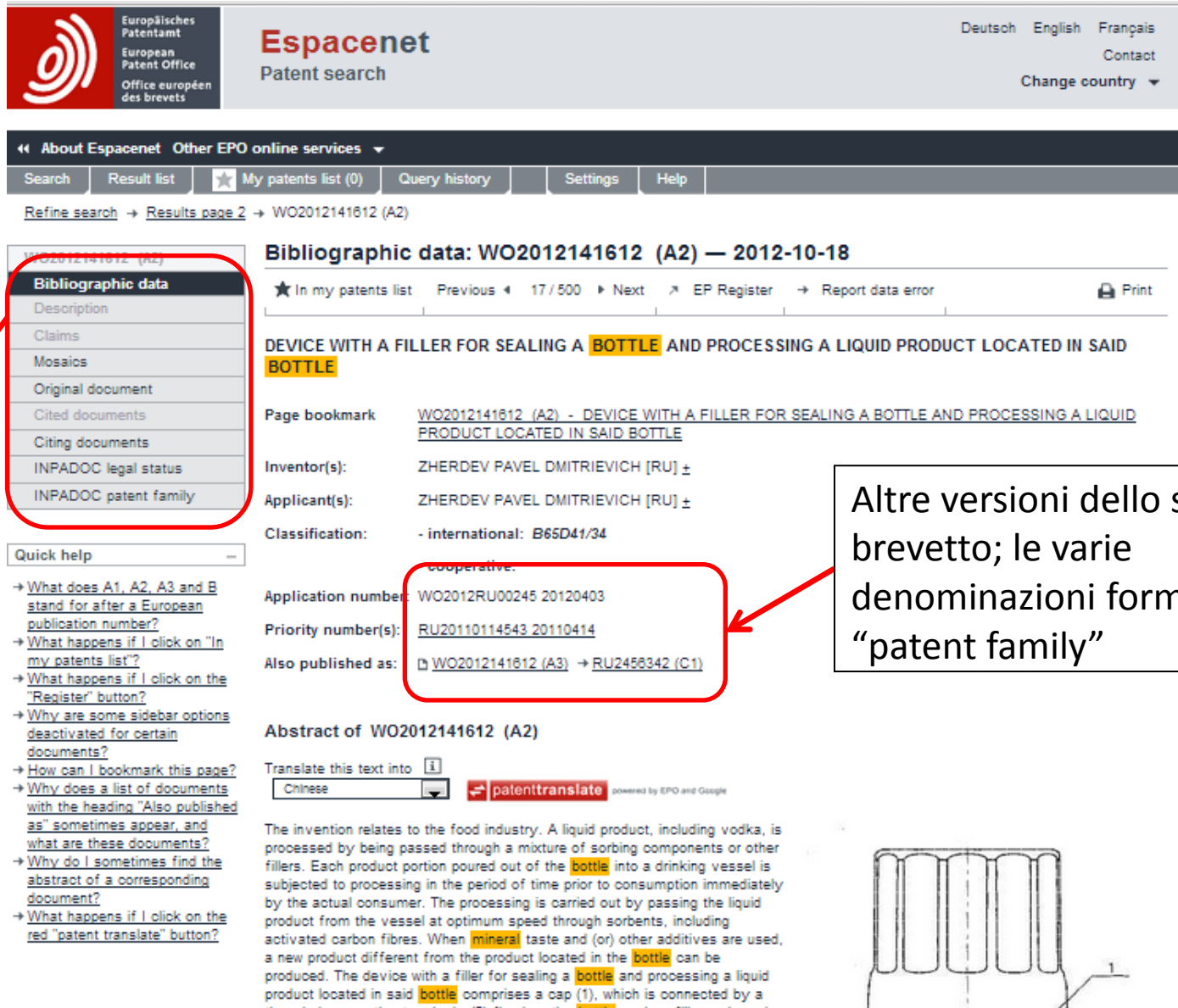
### 3. Handshake handle and racket and training device equipped with same

★ <b>Inventor:</b> MINGGANG WANG	<b>Applicant:</b> GUANGZHOU YIHONG SPORTS DEV CO LTD	<b>CPC:</b>	<b>IPC:</b> A63B49/08 A63B69/00 A63B69/38	<b>Publication info:</b> CN202538279 (U) 2012-11-21	<b>Priority date:</b> 2012-04-26
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### 4. Mineral water bottle

Results?compact=false&AR=bottle+AND+mineral&ST=advanced&/locale=en\_EP&DR=EPDOC#





Europäisches Patentamt  
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### Bibliographic data: WO2012141612 (A2) — 2012-10-18

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**DEVICE WITH A FILLER FOR SEALING A BOTTLE AND PROCESSING A LIQUID PRODUCT LOCATED IN SAID BOTTLE**

Page bookmark [WO2012141612 \(A2\) - DEVICE WITH A FILLER FOR SEALING A BOTTLE AND PROCESSING A LIQUID PRODUCT LOCATED IN SAID BOTTLE](#)

Inventor(s): ZHERDEV PAVEL DMITRIEVICH [RU] ±

Applicant(s): ZHERDEV PAVEL DMITRIEVICH [RU] ±

Classification: - international: B65D41/34

Application number: WO2012RU00245 20120403

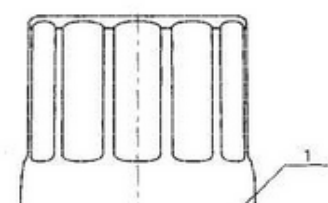
Priority number(s): RU20110114543 20110414

Also published as: **WO2012141612 (A3) → RU2458342 (C1)**

#### Abstract of WO2012141612 (A2)

Translate this text into  **patenttranslate** powered by EPO and Google

The invention relates to the food industry. A liquid product, including vodka, is processed by being passed through a mixture of sorbing components or other fillers. Each product portion poured out of the **bottle** into a drinking vessel is subjected to processing in the period of time prior to consumption immediately by the actual consumer. The processing is carried out by passing the liquid product from the vessel at optimum speed through sorbents, including activated carbon fibres. When **mineral** taste and (or) other additives are used, a new product different from the product located in the **bottle** can be produced. The device with a filler for sealing a **bottle** and processing a liquid product located in said **bottle** comprises a cap (1), which is connected by a



Campi disponibili

Altre versioni dello stesso brevetto; le varie denominazioni formano una "patent family"

US2004151500 (A1) → Citations

US2004151500 (A1)

Bibliographic data

Description

Claims

Mosaics

Original document

Cited documents

**Citing documents**

INPADOC legal status

INPADOC patent family

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## Citing documents: US2004151500 (A1) — 2004-08-05

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6 documents citing US2004151500 (A1)

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### 1. IN-BAND CONTROL PLANE AND MANAGEMENT FUNCTIONALITY IN OPTICAL LEVEL ONE VIRTUAL PRIVATE NETWORKS

★ **Inventor:** VALIVETI RADHAKRISHNA [US]  
LU BIAO [US]  
**Applicant:** INFINERA CORP [US]  
**CPC:** [H04L83/0272](#)  
**IPC:** H04J14/00  
**Publication info:** US2011236018 (A1)  
2011-09-29  
**Priority date:** 2010-03-28

### 2. TRANSPARENT SWITCHING FABRIC FOR MULTI-GIGABIT TRANSPORT

★ **Inventor:** MARKUS RUBEN GABRIEL [IL]  
VITELSON ISRAEL [IL] (+1)  
**Applicant:** IPLIGHT LTD [IL]  
**CPC:** [H04J3/1652](#)  
[H04L49/1523](#)  
**IPC:** H04J14/02  
H04L12/50  
**Publication info:** US2009220229 (A1)  
US7948975 (B2)  
2009-09-03  
2011-05-24  
**Priority date:** 2008-03-03

### 3. SERVICE HANDOVER METHOD, OPTICAL NETWORK SYSTEM, HANDOVER EQUIPMENT AND PE EQUIPMENT IN AN OVPN

★ **Inventor:** YI QILIANG [CN]  
**Applicant:** HUAWEI TECH CO LTD [CN]  
**CPC:** [H04Q11/0062](#)  
[H04Q11/0067](#)  
[H04Q11/0071](#)  
(+2)  
**IPC:** H04J14/00  
H04W36/00  
**Publication info:** US2009060502 (A1)  
US8090282 (B2)  
2009-03-05  
2012-01-03  
**Priority date:** 2008-05-16

### 4. METHOD AND DEVICE FOR IMPLEMENTING LAYER 1 VIRTUAL PRIVATE NETWORK

★ **Inventor:** YI QILIANG [CN]  
**Applicant:** HUAWEI TECH CO LTD [CN]  
**CPC:** [H04L12/4679](#)  
**IPC:** H04L12/58  
**Publication info:** US2008181223 (A1)  
US7884763 (B2)  
2008-07-31  
2011-01-04  
**Priority date:** 2006-09-13

### 5. System and/or Method for Client-Driven Server Load Distribution

★ **Inventor:** THORNBURGH MICHAEL [US]  
KAUFMAN MATTHEW [US]  
**Applicant:** ADOBE SYSTEMS  
INCORPORATED  
**CPC:** [H04L29/08144](#)  
[H04L29/08171](#)  
[H04L29/0818](#)  
**IPC:** G06F15/16  
**Publication info:** US2008301219 (A1)  
US8089251 (B2)  
2008-12-04  
2011-11-29  
**Priority date:** 2007-08-01

**Citazioni:**  
Indice  
successo e/o  
rilevanza di un  
brevetto

[https://register.epo.org/espacenet/application;jsessionid=A957D7C45B1E2A2752E6652DE5731DAE.RegisterPlus\\_prod\\_0?number=EP09850427&tab=main](https://register.epo.org/espacenet/application;jsessionid=A957D7C45B1E2A2752E6652DE5731DAE.RegisterPlus_prod_0?number=EP09850427&tab=main)

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**EP2489603 - BOTTLE COVER ASSEMBLY** [ Right-click to bookmark this link ]

**Status** Request for examination was made  
*Database last updated on 12.03.2013*

<b>Most recent event</b> ⓘ	25.01.2013	Change - classification	published on 27.02.2013 [2013/09]
	25.01.2013	Supplementary search report	published on 27.02.2013 [2013/09]

**Applicant(s)** For all designated states  
CJ CheilJedang Corporation  
500, Namdaemunro 5-ga Jung-gu  
Seoul 100-749 / KR  
[2012/34]

**Inventor(s)**

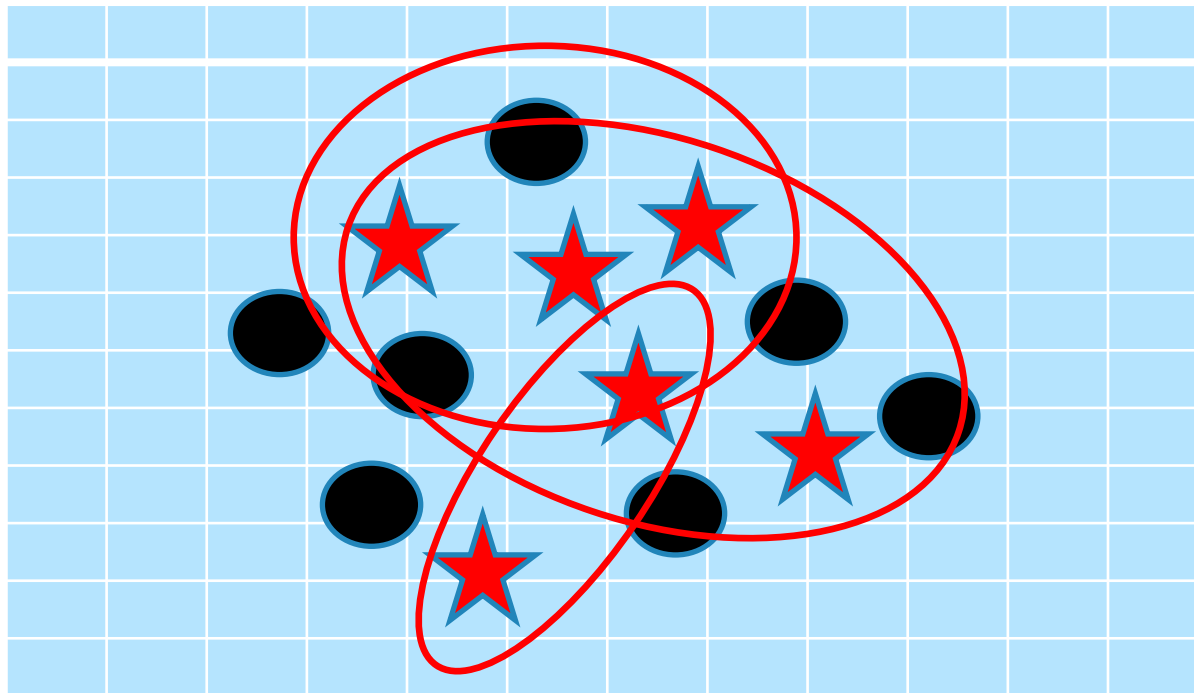
01 / LEE, Jin Hwan 205-301 Jugong Apt., Gojan-dong, Danwon-gu Ansan-si Gyeonggi-Do 425-020 / KR
02 / CHO, Sung Kyu Rm.401, Greenpia Villa, 327-27 Galhyeon-dong, Eunpyeong-gu Seoul 122-050 / KR
03 / PARK, Kwang Soo 105-1201 Dongnam Apt., Pyeong-dong, Gwonseon-gu Suwon-si Gyeonggi-Do 441-760 / KR

[2012/34]

**Representative(s)** Brown, Alexander Edward , et al  
Venner Shipley LLP, 200 Aldersgate  
London EC1A 4HD / GB  
[2012/34]

- Formulazione della "Query" di ricerca:
  - definire i campi di ricerca da interrogare;
  - definire le parole chiave;
  - definire la combinazione tra parole chiave e tra campi da interrogare;

Database "X"

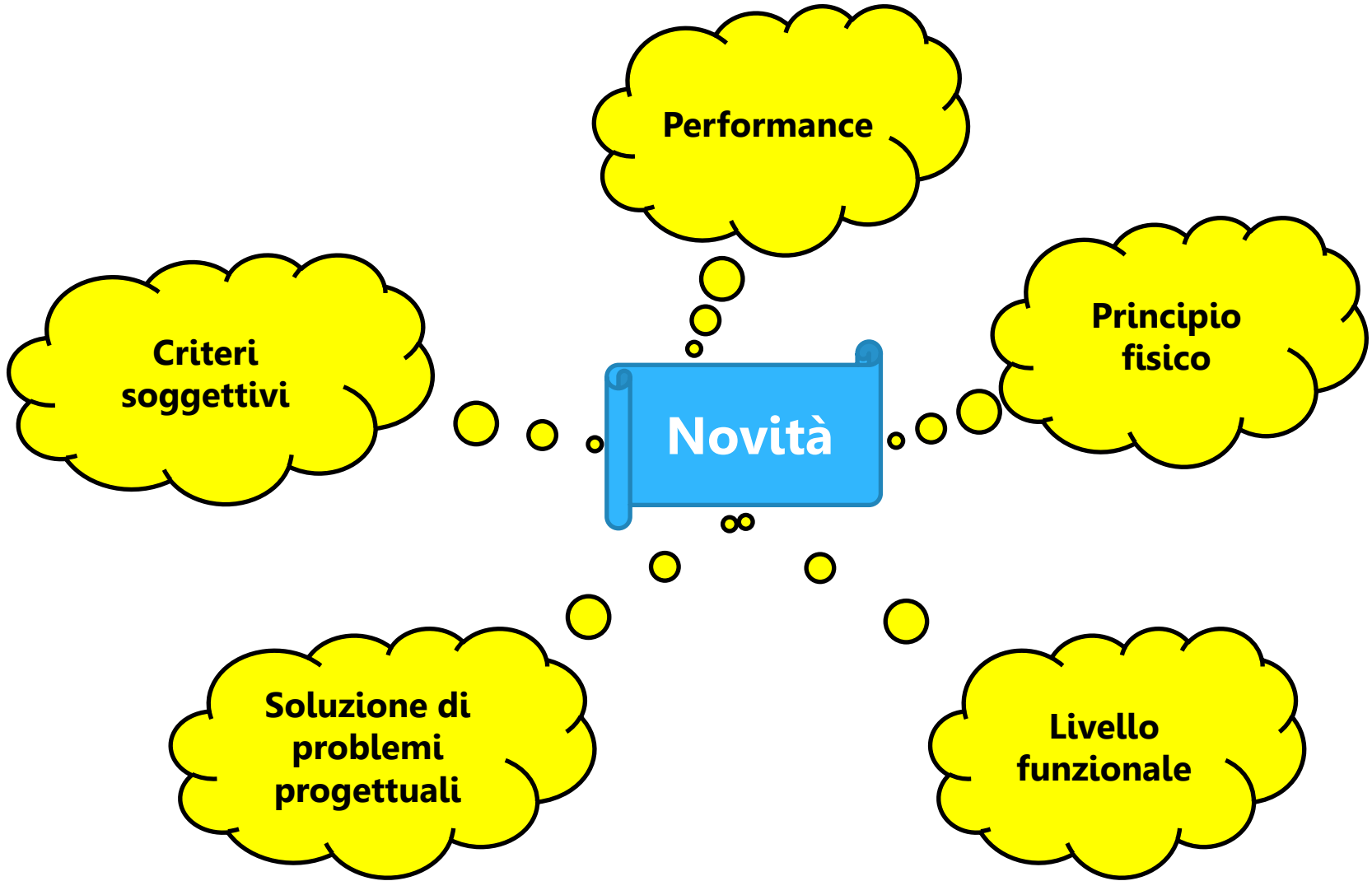


- Ricerche – campi testuali

In generale si ricerca tramite	Al fine di...
Parole chiave nei campi testuali (o loro radici, ad es. <i>electr</i> <sup>*</sup> )	Individuare i brevetti che trattano un/una determinato/a prodotto/funzione
Classe/i brevettuale/i	Indagare un settore tecnico/industriale
Applicant	Monitorare il patent portfolio di un concorrente
Date di pubblicazione/priorità	Restringere la ricerca in un determinato periodo temporale

- Parole chiave
  - Quali parole usereste per descrivere la vostra invenzione? Quale è la funzione svolta dal vostro sistema? Qual è l'effetto principale prodotto? Quali sono le proprietà o prestazioni rilevanti?
  - Lista di parole comunemente usate per descrivere invenzioni simili.
  - Un ampio set di parole di chiave vi permetterà di attuare una procedura di ricerca iterativa facendovi guadagnare sensibilità sulla terminologia.
  - Dunque la ricerca brevettuale e l'analisi dei risultati va effettuata più volte al fine di raffinare il set di parole chiave (in considerazione dei brevetti che si ritengono via via più pertinenti si modificherà il set di parole chiave prendendo spunto da tali documenti)

- Parole chiave: combinazione
  - Operatori logici AND, OR, NOT:
    - "Parola A" AND "Parola B": si trova tutti i documenti che presentano le due parole chiave nel campo di ricerca impostato
    - "Parola A" OR "Parola B": la ricerca restituisce i documenti che hanno o una o l'altra parola chiave
    - NOT "Parola chiave": la ricerca restituisce tutti i documenti che non presentano la parola chiave nel campo di ricerca impostato
  - Quindi combinando più parole chiave con tali operatori è possibile indirizzare la ricerca dei documenti verso quelli di interesse





Metriche di confronto rispetto a prodotti/servizi esistenti

- Capacità di fornire nuovi benefici
- Risoluzione di problemi tecnici particolarmente avvertiti nell'industria
- Discontinuità rispetto ad una linea di tendenza nell'evoluzione degli artefatti, capacità di sorprendere
- Implementazione di funzionalità che soddisfino bisogni diversi rispetto a quello di riferimento per l'industria
- **SUCCESSO COMMERCIALE (ex post)**

## Legenda: [8]



Elemento del sistema principale



Elemento esterno al sistema principale



Sistema principale

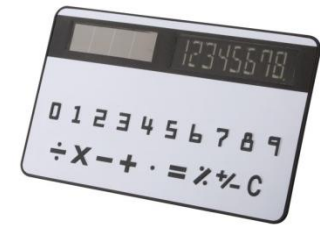


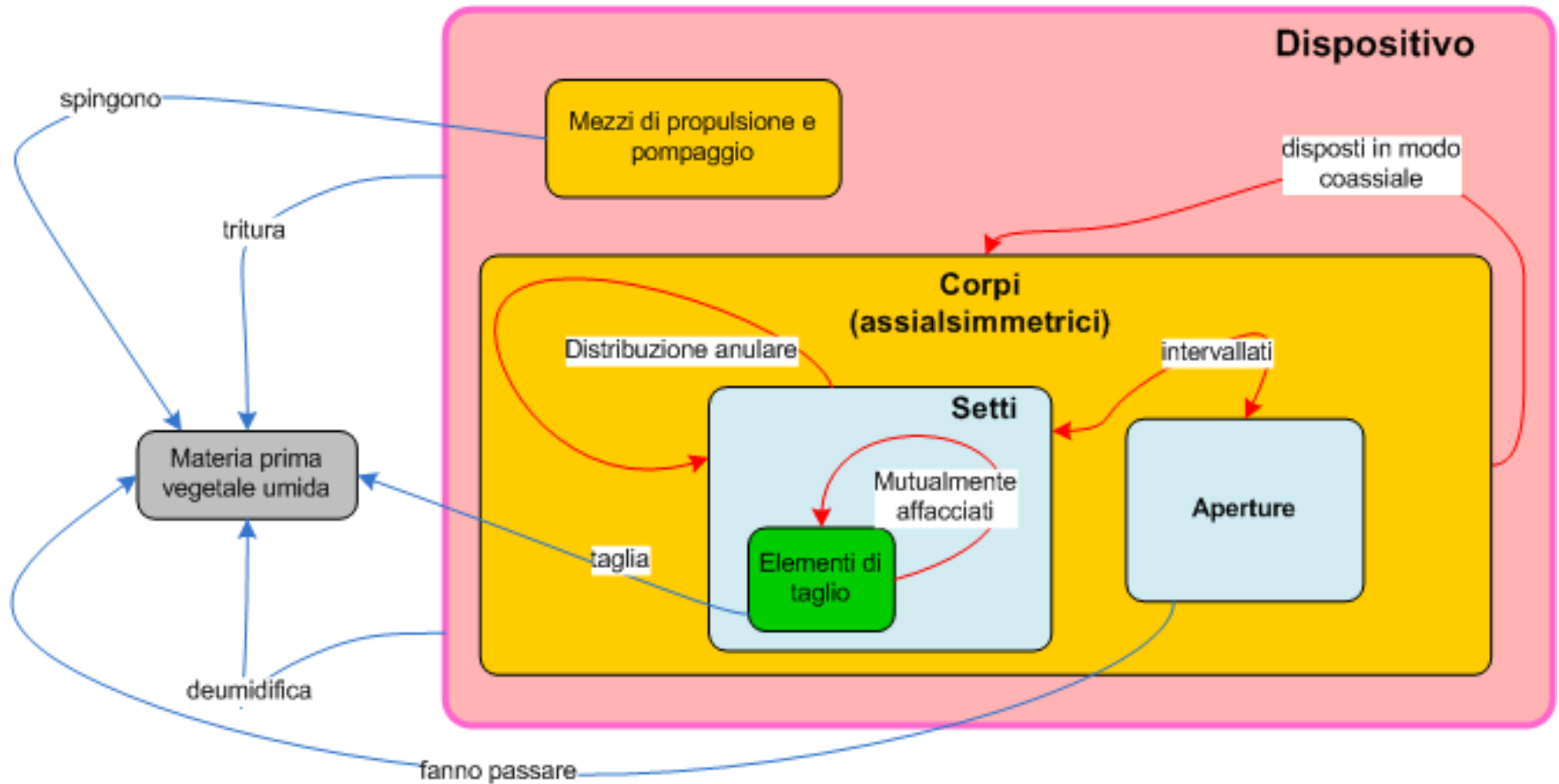
Relazione funzionale



Relazione posizionale

(proprietà)





- Mattone “particolare”:


L’inventore ci ha descritto (più o meno) così la sua proposta:

«...Omissis...»

- Mattone
- Faccia vista
- Muratura a secco

- Mattone “particolare”:
  - Classi brevettuali
    - E04C: structural elements; building materials
    - E04B: General building constructions; walls, e.g. partitions; roofs; floors; ceilings; insulation or other protection of buildings
  - Formulazione delle parole chiave (e loro radici)
    - *mattone*: brick\*, block\*;
    - *faccia a vista*: smooth, facing, face, exposed, visible, flush;
    - *murato a secco*: mortarless, dry stackable;
  - Campi di ricerca testuale:
    - Titolo e abstract (ci interessa identificare brevetti simili)

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plastic and bicycle


Title or abstract: 

hair



brick\* OR block\*

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Results are sorted by date of upload in database

### 1. CONSTRUCTION **BLOCKS**

★ <b>Inventor:</b> MAEERS RICHARD [CA]	<b>Applicant:</b> MAEERS RICHARD [CA]	<b>CPC:</b> <b>E04B</b> 2/16 <b>E04C</b> 1/00 E04G21/14	<b>IPC:</b> E04B2/16 E04C1/00	<b>Publication info:</b> US2014090325 (A1) 2014-04-03	<b>Priority date:</b> 2011-05-31
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### 2. Gypsum-panel acoustical monolithic ceiling

★ <b>Inventor:</b> DUGAN ERIN [US] MIKLOSZ MARK [US] (+3)	<b>Applicant:</b> USG INTERIORS LLC [US]	<b>CPC:</b> <b>E04B</b> 1/84 <b>E04B</b> 1/8409 <b>E04B</b> 2001/8476 (+2)	<b>IPC:</b> E04B1/74 E04B1/82	<b>Publication info:</b> TW201400674 (A) 2014-01-01	<b>Priority date:</b> 2012-06-27
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### 3. FAUX **BRICK** AND FAUX **BRICK** SYSTEM

★ <b>Inventor:</b> FAIRCHILD KYLE [US]	<b>Applicant:</b> FAIRCHILD KYLE [US]	<b>CPC:</b> <b>E04B</b> 1/38 <b>E04C</b> 1/00	<b>IPC:</b> E04B1/38 E04C1/00	<b>Publication info:</b> US2014083041 (A1) 2014-03-27	<b>Priority date:</b> 2012-09-26
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### 4. INSULATED WALL PANEL

Enter keywords in English

Title:  plastic and bicycle

Title or abstract:  hair

brick\* OR block\* AND (smooth OR fac\* OR flush OR exposed OR visible)

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Results are sorted by date of upload in database

### 1. Gypsum-panel acoustical monolithic ceiling

★	<b>Inventor:</b>	<b>Applicant:</b>	<b>CPC:</b>	<b>IPC:</b>	<b>Publication info:</b>	<b>Priority date:</b>
	DUGAN ERIN [US]	USG INTERIORS LLC [US]	<b>E04B</b> 1/84	E04B1/74	TW201400674 (A)	2012-06-27
	MIKI OS7 MARK II IS1		<b>E04B</b> 1/8409	F04R1/82	2014-01-01	




Enter keywords in English


Title:


Title or abstract:

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1 

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1. **Double Locking Mortarless Block**



**Inventor:**

EDWARDS  
DOUGLAS [US]

**Applicant:**

EDWARDS DOUGLAS [US]

**CPC:**

**E04C** 1/00

**IPC:**

E04C1/00

**Publication info:**

US2014059965 (A1)  
2014-03-06

**Priority date:**

2012-08-30

2. **CONCRETE WALL BLOCK**

## CONCRETE WALL BLOCK.

Page bookmark [MX2013006711 \(A\) - CONCRETE WALL BLOCK.](#)

Inventor(s): CASTONGUAY BERTIN [CA]; DAOUST ROBERT; EVANS TAMARA; PENTERMAN JOHN ±

Applicant(s): MATERIAUX DE CONSTRUCTION OLDCASTLE CANADA INC [CA] ±

Classification: - international: **E02D29/02**; **E04C1/00**


- cooperative: **E04C** 1/395; **E04B** 2002/0239; **E04B** 2002/0263; **E04B** 2002/0271

Application number: MX20130006711 20130613

Priority number(s): [US201061425407P 20101221](#) ; [US201161555947P 20111104](#) ; [WO2011CA50796 20111221](#)

Also published as: [US2012151862 \(A1\)](#) [EP2655758 \(A1\)](#) [WO2012083457 \(A1\)](#) [CA2816643 \(A1\)](#) [AU2011348981 \(A1\)](#)

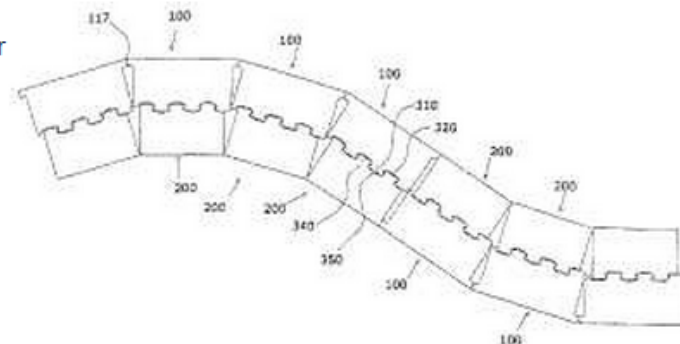
### Abstract of MX2013006711 (A)

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A **stackable** concrete wall block is disclosed having a prism shaped body with front, rear top and bottom **faces**, in a stacked condition, and at least a pair of side walls for placement opposite a like block placed side by side to the wall block, whereby a lip protrudes from at least one of the sidewalls and is coplanar with the front **face** for spacing the body of the block from that of a like block placed adjacent thereto. As is the case with tapered blocks known in the art, this spacing allows the assembly of curved walls. However, a prism shaped block with parallel side walls and a lip is more easily manu**factured** than a tapered block with angled side walls, since no movable mold walls are required, when the block is made in a **dry** casting process. The front **face** and lip can have an embossed sur**face** structure.



## MULTI-COMPONENT RETAINING WALL **BLOCK.**

**Page bookmark** [MX2011004214 \(A\) - MULTI-COMPONENT RETAINING WALL BLOCK.](#)

**Inventor(s):** BOTT TIMOTHY A [US] ±

**Applicant(s):** BLOCK ALLAN CORP [US] ±

**Classification:** - **international:** **E04C1/39**

- **cooperative:** **E02D29/025**; **E04C 1/395**; **E04B 2002/0269**

**Application number:** MX20110004214 20110418

**Priority number(s):** [US20080265314 20081105](#) ; [WO2009US60336 20091012](#)

**Also published as:** [US2010111615 \(A1\)](#) [US7775747 \(B2\)](#) [WO2010053660 \(A2\)](#) [WO2010053660 \(A3\)](#) [US2010310324 \(A1\)](#)  
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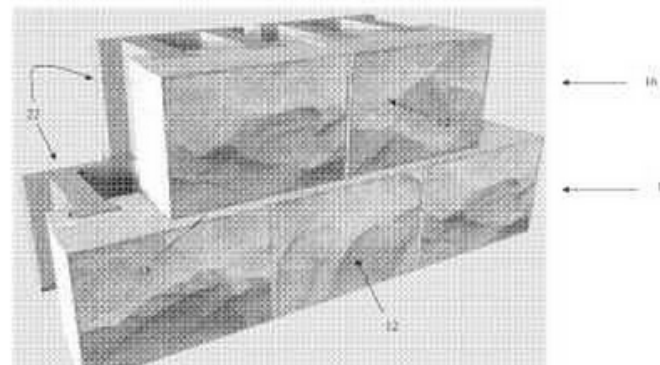
### Abstract of MX2011004214 (A)

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A multi-component segmented retaining wall (SRW) block that may form a **mortarless** retaining wall. Each SRW block includes an interlocking **face** unit and an anchor unit that together form a vertically oriented hollow core bounded by the inner walls of the **face** unit and the anchor unit. Each **face** unit and anchor unit pair are interlocked by complementary connector elements.



## A MORTARLESS WALL STRUCTURE

Page bookmark	<a href="#">WO2004085758 (A2) - A MORTARLESS WALL STRUCTURE</a>
Inventor(s):	PRICE RAYMOND [US] ±
Applicant(s):	ALLIANCE CONCRETE CONCEPTS INC [US]; PRICE RAYMOND [US] ±
Classification:	<p>- international: <a href="#">B60R99/00</a>; <a href="#">E02D27/01</a>; <a href="#">E02D29/02</a>; <a href="#">E04B1/04</a>; <a href="#">E04B1/343</a>; <a href="#">E04B1/38</a>; <a href="#">E04B2/00</a>; <a href="#">E04B2/06</a>; <a href="#">E04C1/00</a>; <a href="#">E04C3/04</a>; <a href="#">E04F13/08</a>; <a href="#">E04B1/61</a>; <a href="#">E04B2/02</a>; <a href="#">E04B2/86</a>; <a href="#">E04C</a>; (IPC1-7): <a href="#">E04C</a></p> <p>- cooperative: <a href="#">E02D27/01</a>; <a href="#">E02D29/025</a>; <a href="#">E02D29/0283</a>; <a href="#">E04B 1/34342</a>; <a href="#">E04B 2/06</a>; <a href="#">E04B 2/7453</a>; <a href="#">E04F13/0803</a>; <a href="#">E04F13/0821</a>; <a href="#">E04F13/0825</a>; <a href="#">E04F13/0826</a>; <a href="#">E04B 1/6133</a>; <a href="#">E04B 1/6141</a>; <a href="#">E04B 1/6154</a>; <a href="#">E04B 2/8652</a>; <a href="#">E04B 2002/0247</a></p>
Application number:	WO2004US09034 20040324
Priority number(s):	<a href="#">US20030395608</a> <a href="#">20030324</a>
Also published as:	<a href="#">📄 WO2004085758 (A3)</a> <a href="#">📄 US2003188497 (A1)</a> <a href="#">📄 US2007175115 (A1)</a> <a href="#">📄 US2007163188 (A1)</a> <a href="#">📄 US2006101784 (A1)</a> → <a href="#">more</a>

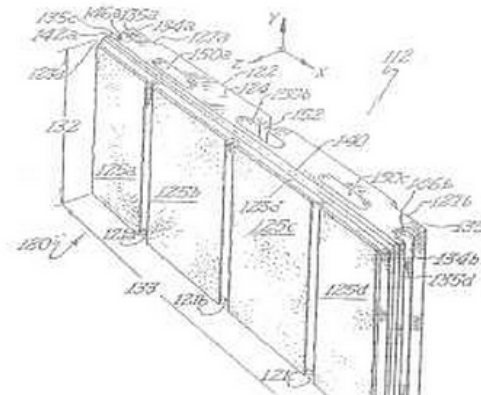
### Abstract of WO2004085758 (A2)

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A mortarless wall structure (10) comprising a plurality of preformed, **stackable blocks** (12, 112, 160, 312) with the **blocks** operatively connected to each other by a plurality of elongated, vertically oriented, support beams (16, 116, 270, 287). The **blocks** may include one or more channels (140, 142a, 142b, and 144) that are configured and arranged to intercept moisture traversing from the front **surface** (120) toward the rear **face** (122) of the **block**, and to direct the moisture in a predetermined direction that does not intersect the rear **face**. The wall (10) may be freestanding or operatively connected to a suitable support structure by one or more brackets (18, 19, 200, 230). When used in conjunction with a support structure, the wall may be provided with a sealing element (250) that prevents moisture and debris from being introduced between the wall and the support structure.



2CC-WO&NR=2004085758A2&KC=A2&FT=D&ND=3&date=20041007&DB=EPDOC&locale=en\_EP

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