



Brain@work - Information Literacy

## The state of the art beyond bibliographic search (or patent literature search)

### IP Search Tools

February 3, 2020

Valorisation Unit | Eurecat

Brain@work core topic: Information literacy

**The United States National Forum on Information Literacy defines information literacy as "... the hyper ability to know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand."**

**(Source: Wikipedia)**

# Brain@work - Information Literacy

## Intellectual Property (IP) Search Tools

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## Back to basics: what do we mean by IP?

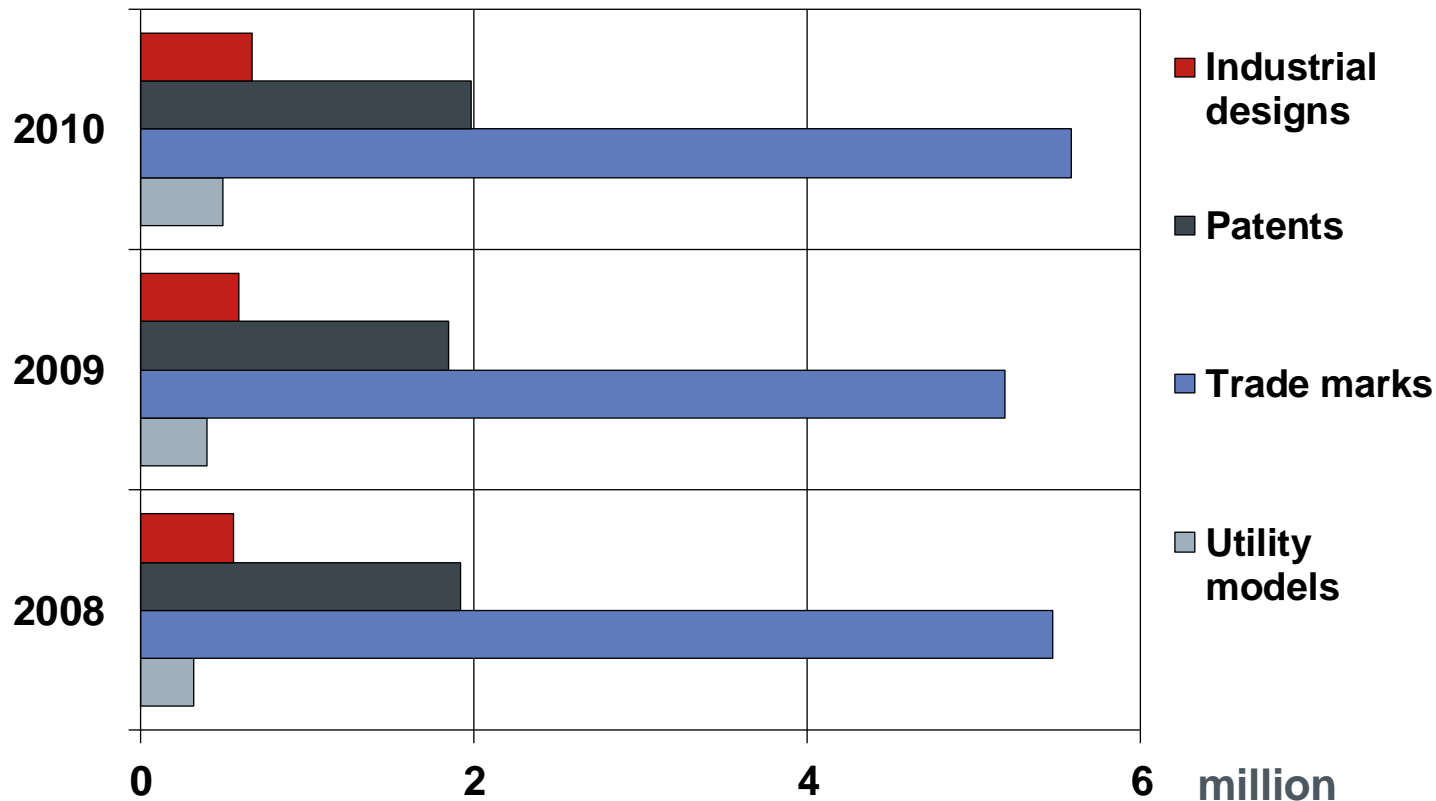
- Intellectual property is the product of imagination and creativity.

## Where can IP be created?

- Intellectual property can be a product of the imagination in:
  - artistic fields
  - aesthetic fields
  - commercial fields
  - technical fields.



## Total filing figures for various IP rights 2008-2010



Source: European Patent Office (EPO)

# The patent system yesterday and today

## Senate of Venice, 1474

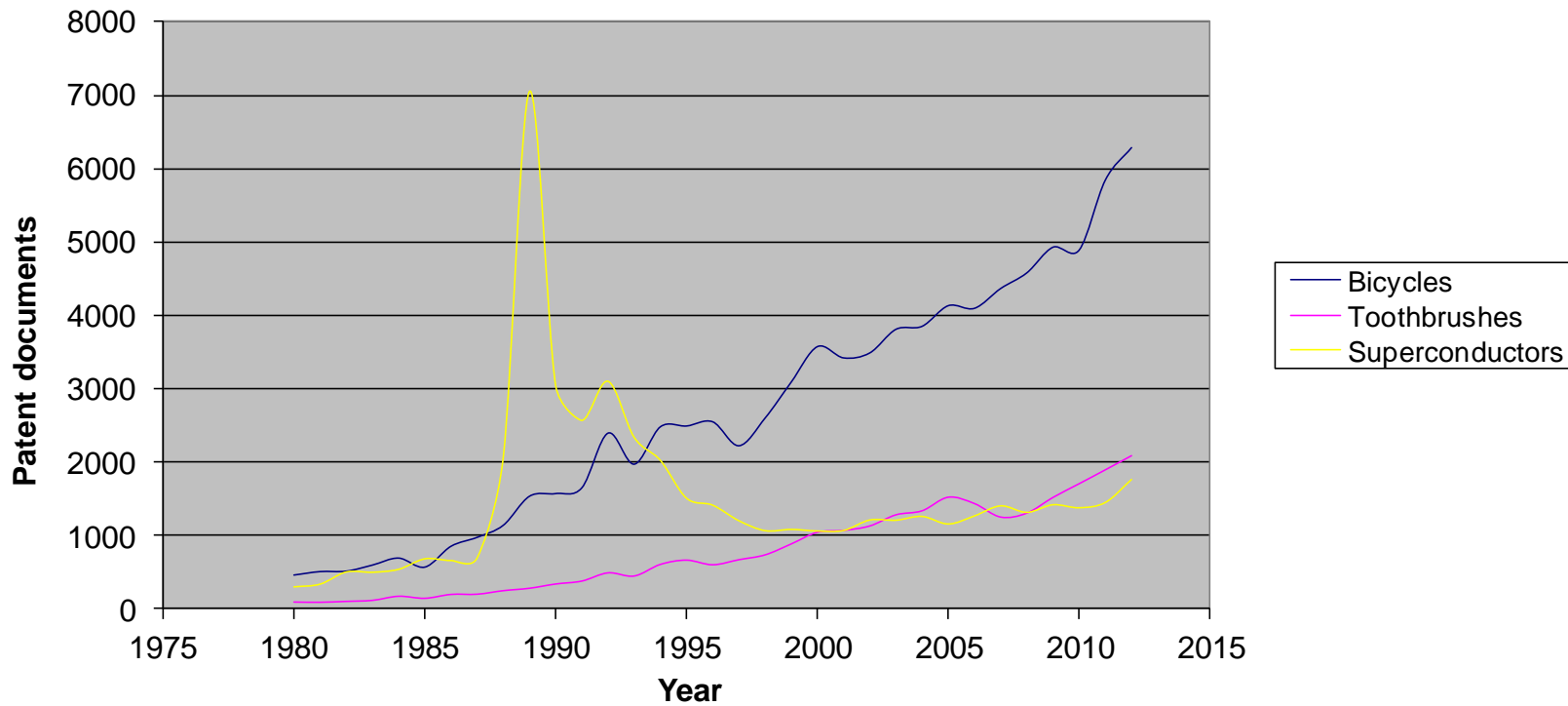
*"Any person in this city who makes any new and ingenious contrivance, **not made heretofore in our dominion**, shall, as soon as it is perfected so that it can be used and exercised, give notice of the same to our State Judicial Office, it being **forbidden up to 10 years** for any other person in any territory of ours to make a contrivance in the form and resemblance thereof".*



## Today:

- New to the world
- Up to 20 years of protection
- Publication
- Incentive to innovate and to share knowledge

# Patents are all around us



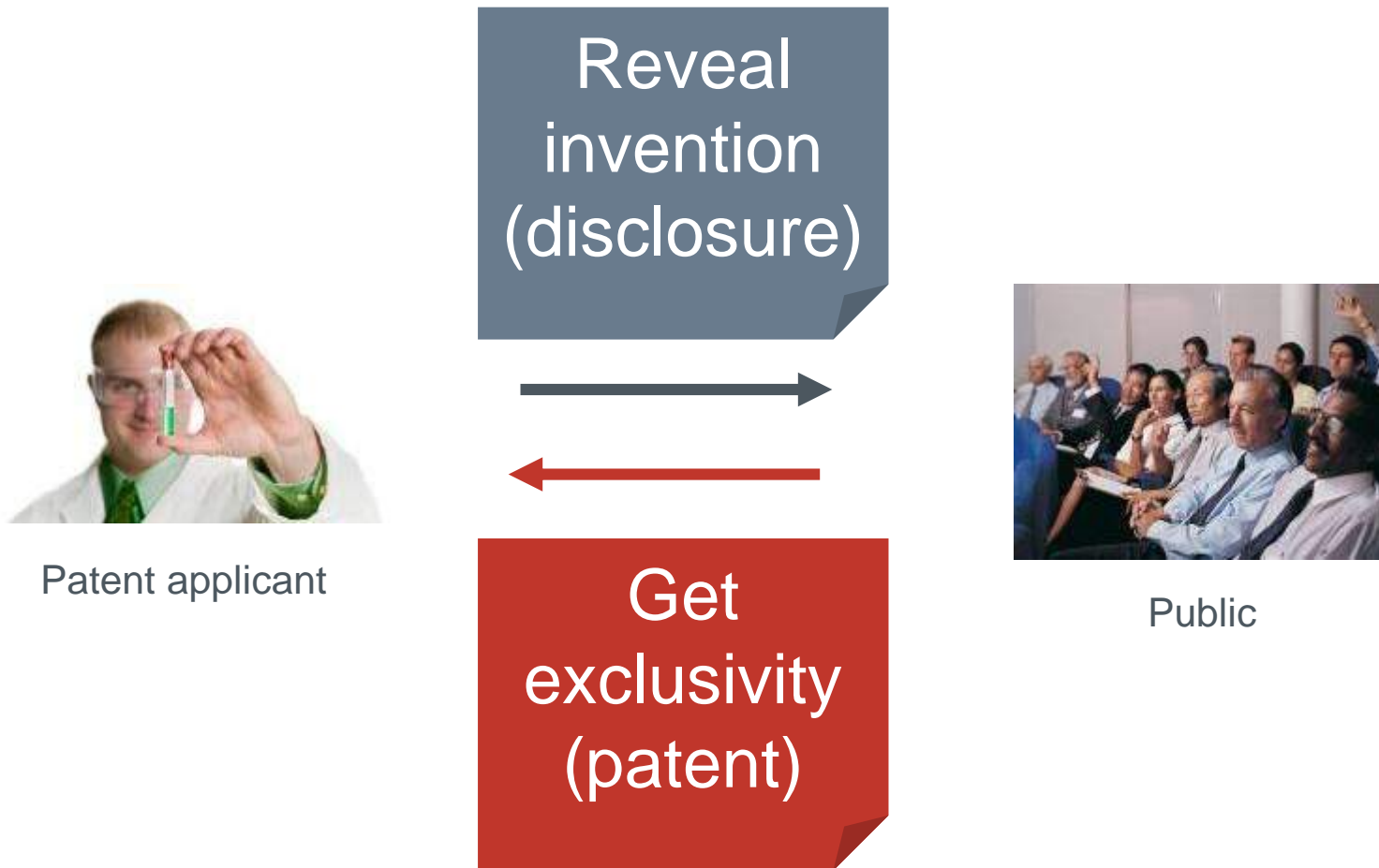


# The role of the patent system

- To encourage technological innovation
- To promote competition and investment
- To provide information on the latest technical developments
- To promote technology transfer



# Patents as a social contract: The publication deal



- In exchange for the legal rights obtained through registration, owners agree to the substance of their IP being made public.

# What is a patent?

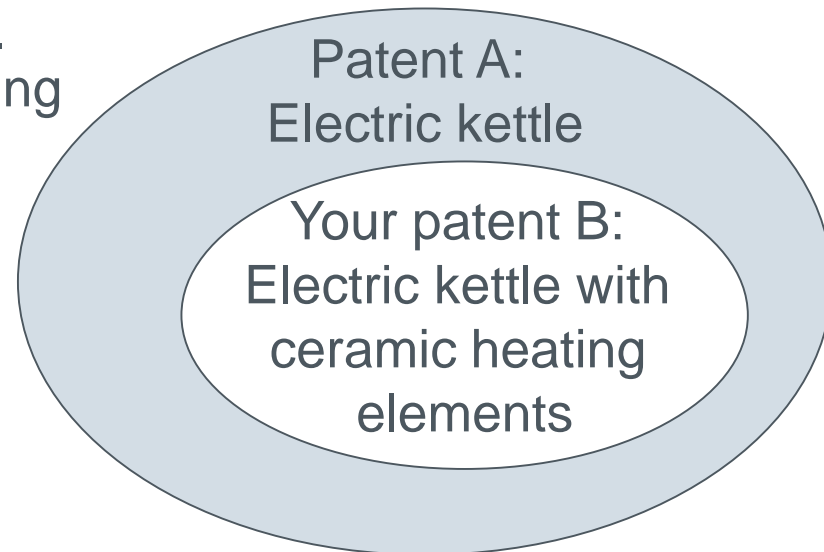
- Does a patent give you the right to exploit an invention?

**- NO!**



- A patent is a **negative right**.  
 It gives you the right to prevent others from exploiting the invention.  
 It is not an enabling right.
- Patents owned by others may overlap or encompass your own patent.  
 -> Seek a **licence** before commercialising

For example:



# Advantages and disadvantages of getting a patent

## Advantages

- Exclusivity enables investment and higher returns on investment
- Strong, enforceable legal right
- Makes invention tradable (licence, sale, assign)

## Disadvantages

- Reveals invention to competitors (after 18 months)
- **Can be expensive**
- Grant may take 3-5 years **at least!**
- Patent enforceable only after grant; proceedings can be costly

# Alternatives to patenting

## Disclose (publish) the information

- Cheap
- Prevents others from patenting the same invention

- Does not offer exclusivity
- Reveals the invention to competitors

## Keep it a secret

- Cheap (but there is the cost of maintaining secrecy)
- Does not reveal the invention

- No protection against reverse-engineering/duplication of invention
- Difficult to enforce
- Secrets often leak quite fast

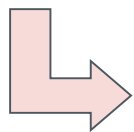
## Do nothing

- No effort required

- Does not offer exclusivity
- Competitors will often learn details

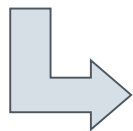
# What to consider before filing an application

**Should you patent your invention?**  
Cost/benefit analysis



**Is your invention patentable?**

- Conduct a prior art search
- Get advice on legal requirements



**Have you clarified the rights to the invention**  
with the company, its employees and business partners?



**SEEK LEGAL ADVICE!**



# What do patent documents look like?



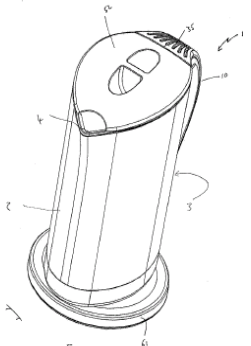
Date of publication

Date of filing

Applicant



Abstract

 Europäisches Patentamt European Patent Office Office européen des brevets		 (11) EP 1 520 497 A2
(12) EUROPEAN PATENT APPLICATION		
(43) Date of publication: 06.04.2005 Bulletin 2005/14		(51) Int Cl.: A47G 19/22, C02F 1/00
(21) Application number: 04256130.8		
(22) Date of filing: 04.10.2004		
(84) Designated Contracting States: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR Designated Extension States: AL HR LT LV MK		(72) Inventor: Scott, Michael James Isle of Man IM9 5PH (GB)  (74) Representative: Samuels, Adrian James Frank B. Dehn & Co., 179 Queen Victoria Street London EC4V 4EL (GB)
(30) Priority: 03.10.2003 GB 0323237 27.02.2004 GB 0404293		Remarks: A request for correction of the drawings has been filed pursuant to Rule 88 EPC. A decision on the request will be taken during the proceedings before the Examining Division (Guidelines for Examination in the EPO, A.V. 3).
(71) Applicant: STRIX LIMITED Ronaldsway, Isle of Man IM9 2RG (GB) Designated Contracting States: DE FR IT		
(54) Water Storage Apparatus		
(57) A water treatment and storage vessel has a reservoir 50 for untreated water and filter means 51 in fluid communication with the reservoir 50. A main vessel portion 2 is provided for receiving and storing treated water which comprises a Peltier-effect device 25 for removing heat from treated water therein, thereby cooling the water.		
		
Fig. 1 <small>Printed by Jouve, 75001 PARIS (FR)</small>		

Application number

Technical class

Inventor



Description

Claims

1. A portable water treatment and storage vessel comprising:

a reservoir for untreated water;  
 filter means in fluid communication with said reservoir; and  
 a main vessel portion for receiving and storing treated water;

wherein said main vessel portion comprises electro-thermal cooling means for removing heat from the treated water therein, thereby cooling the water.

Claim(s)



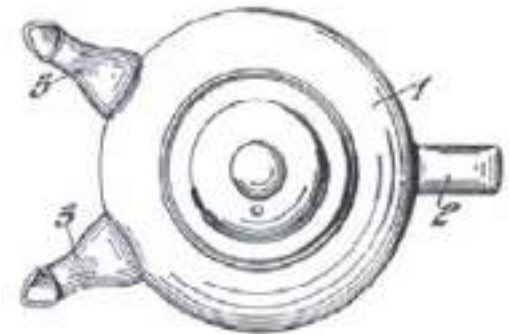
Drawing(s)

# What does the description contain?

- Prior art
  - *teapot with one spout*
- Drawback of prior art
  - *time-consuming*
- Problem to be solved
  - *reduce filling time for multiple cups*
- Solution
  - *provide a second spout*
- Advantage of the invention
  - *filling time is reduced*



*Fig. 1.*



*Fig. 2.*



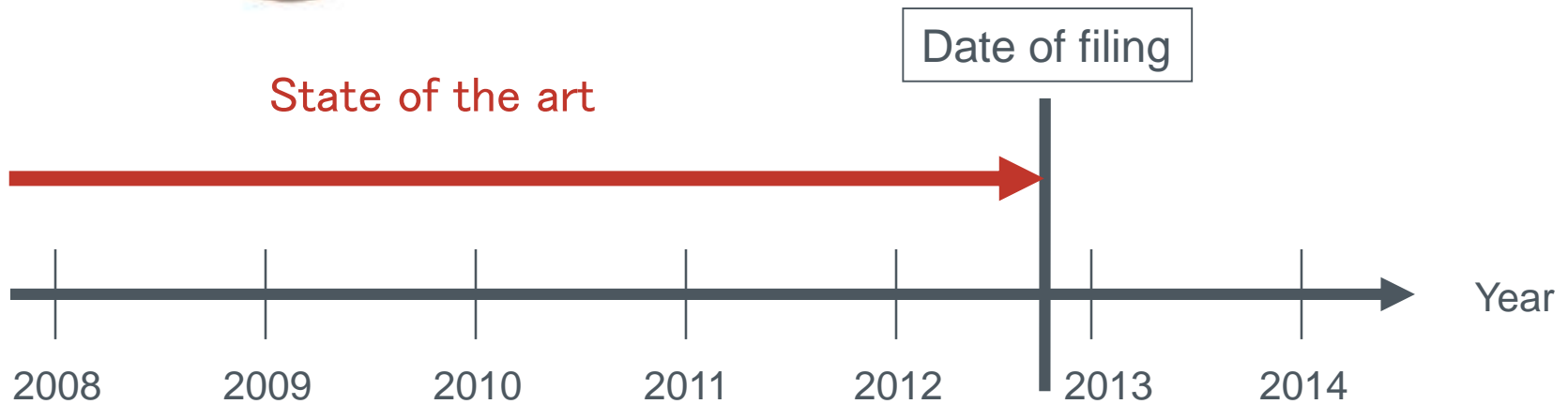
# When is an invention "new"?

- When it is not part of the state of the art
- State of the art = everything made available to the public before the date of filing

***Keep your invention confidential until you have filed your application!***



Patent application

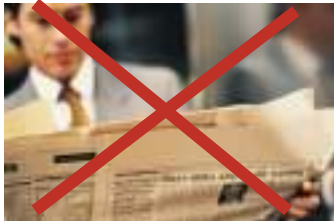


## Do's and don'ts for safeguarding novelty



### Don'ts

- Do **not publish** any articles, press releases, conference presentations/ posters/ proceedings, lectures or blog posts, etc. before you file
- Do **not sell** any products incorporating the invention before you file



### Do's

- Sign a non-disclosure agreement (**NDA**)
- Seek **professional advice** at an early stage
- **File** before anyone else does!



# PATENT SEARCH: MOTIVATION

## Why search?

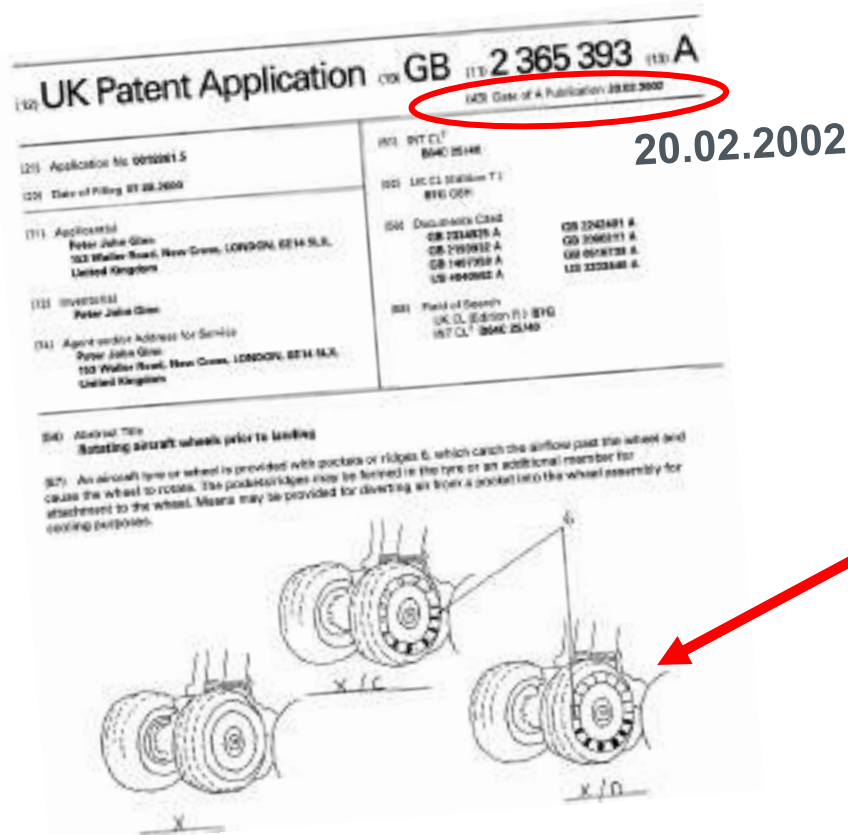
- To find out what others are doing
- New 'ideas'.
- Freedom to operate (also called FtO).
- Enforcement.

## Last but not least...

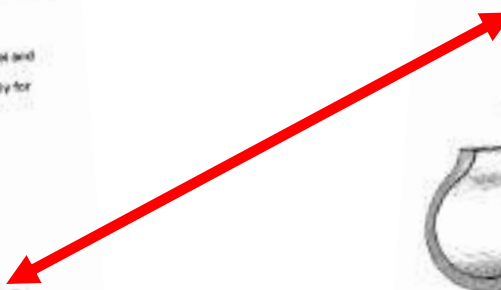
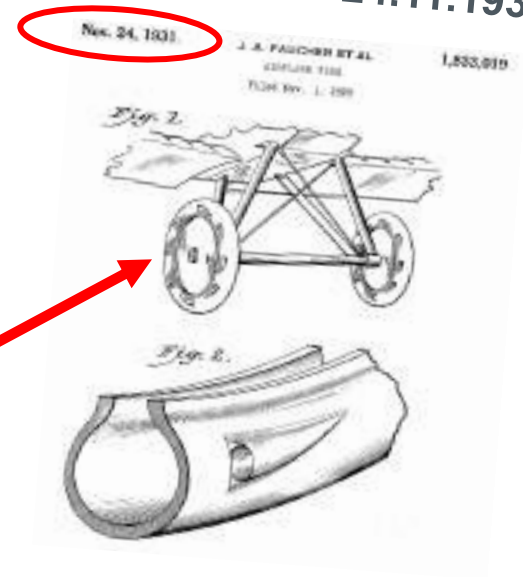
Because it's there!

# Re-inventing the wheel - literally

- 15-25% of all R&D efforts are wasted each year on inventions that have already been invented.
- Don't start your R&D until you have done a search!



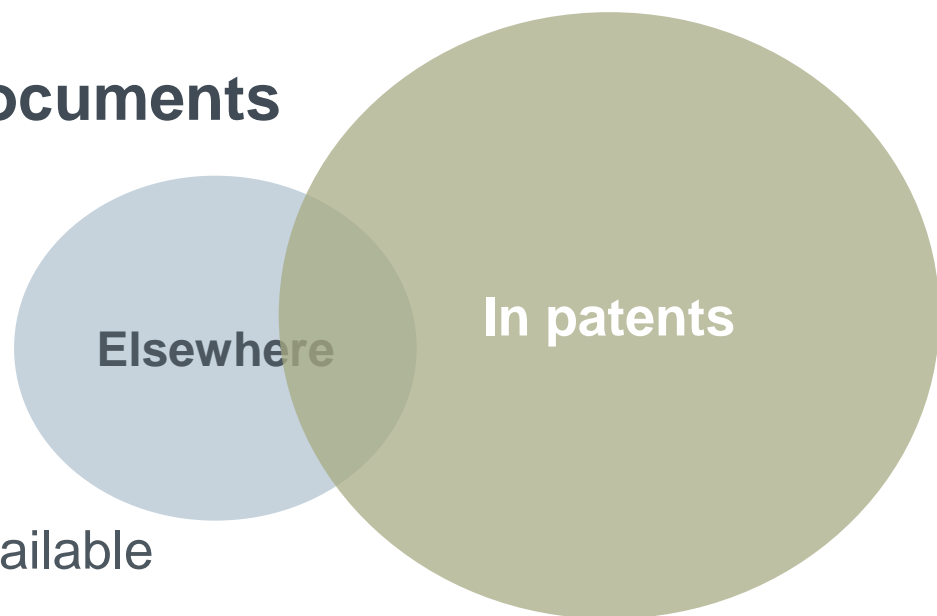
**US-A-1833019 - 24.11.1931**



## Solutions found in patent documents

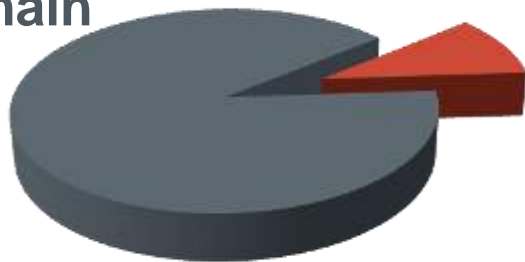
Where do competitors publish their R&D?

Approximately **80%** of the information which can be found in patents is not available anywhere else in comparable detail.



**90%**  
in public  
domain

**10%**  
**protected**



**You can find many  
great solutions for free!**

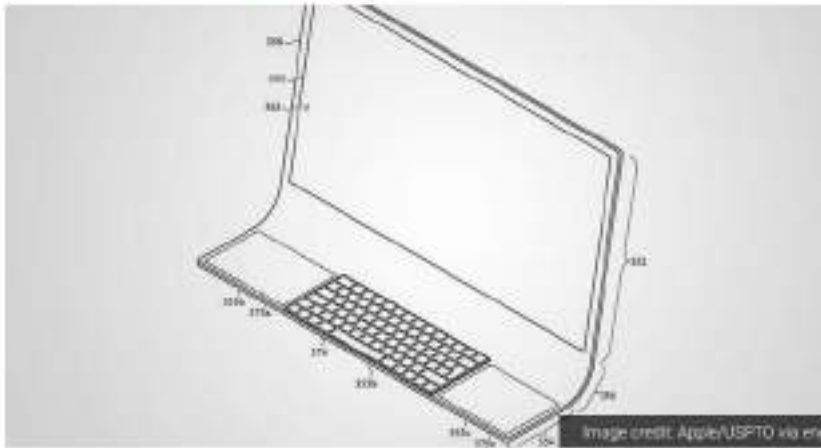
Reasons

- Applications rejected/withdrawn or patent invalidated
- Payment of renewal fees discontinued
- Patents have lapsed (>20 years)

APPLE

# Apple Envisions a Mac Made From a Sheet of Curved Glass

*It's not necessarily a new iMac, but it shows Apple's thinking*

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Apple is known to explore [unusual Mac designs](#), but its latest may be more eye-catching than most. The company has [applied](#) for a patent on a desktop Mac design whose main body consists of a single, curved sheet of glass -- a wedge at the back could both house processing components and prop up the design. A slot at the bottom center would let you slot a keyboard through, and Apple even envisions the possibility of altering the curve to adjust the display angle or fold the system shut.

One section of the patent imagines sliding a MacBook's keyboard section through the slot, suggesting this design could also be used for a laptop dock instead of a full-fledged computer.

This isn't a product roadmap for Apple -- we wouldn't count on a curved-glass Mac like this arriving soon, if at all. There would be technical limitations to overcome like adjustability of the display ([folding phones](#) are barely a thing, let alone desktops), and Apple may simply decide that a 'safer' design like the current iMac is enough. This patent application does shed light on Apple's design process, though, and suggests that it's willing to dramatically revamp desktop Macs if and when that makes sense.

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previously Thomson, from

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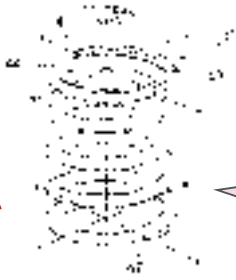
Also [Google Patents](http://patents.google.com) , a.o.



... but a basic knowledge of patent jargon is needed!

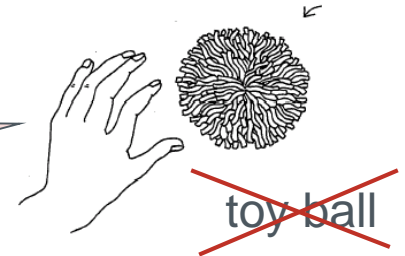
Beware of "naïve" keyword searches!

~~spring~~



"energy-storing means"

Patent jargon is used to broaden scope of the patent.

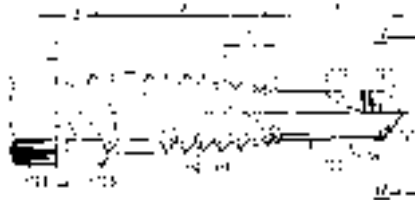


~~toy ball~~

"spherical object with floppy filaments"

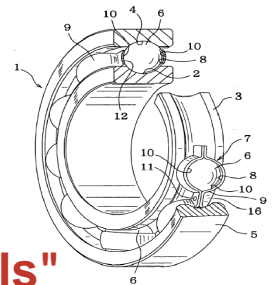
Sometimes the applicant simply doesn't want his application to be found.

~~nail, screw, rivet~~



"fastening means"

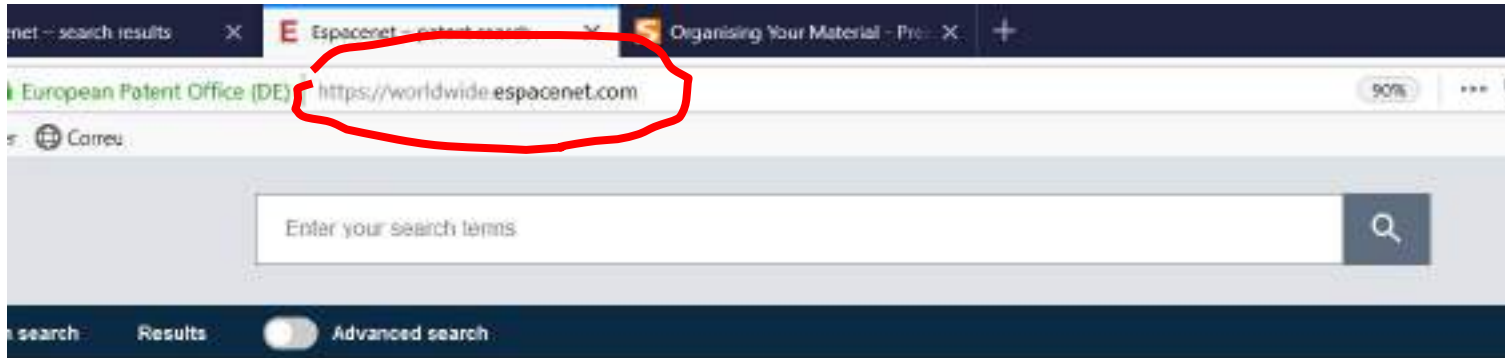
~~ball bearing~~



"plurality of balls"



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# Who are the potential users?

- Scientists
- Engineers
- Lawyers
- Economists/business administrators
- Historians


# The structure of patent documents

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- Bibliographic data
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- Description
- Drawings
- Claims
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# The description



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Refinement: [Search](#) + EP1000000 (A1)

EP1000000 (A1)

**Description**

Claims

Novelty

Original document

Cited documents

Citing documents

INPADCO legal status

INPADCO patent family

**Description: EP1000000 (A1) — 2000-05-17**

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**Apparatus for manufacturing green bricks for the brick manufacturing industry**

**Description of EP1000000 (A1)**

Translate this text into:

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[0001] The invention relates to an apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carrying mould containers, means for supplying and pacing take-off plates for the green bricks and means for discharging green bricks released from the mould containers. Such an apparatus is known in the field and is for instance described in the patent 1000180 of applicant. The known apparatus is extremely suitable for automated production of large numbers of green bricks for the brick manufacturing industry. The bricks fired from these green bricks have a substantially smooth, uniform appearance.

[0002] A recent demand has developed on the market for bricks which appear as if they have been manufactured according to traditional methods.

[0003] The invention has for its object to adapt the known apparatus such that it can produce in automated manner large numbers of green bricks with a traditional appearance.

[0004] For this purpose the apparatus according to the invention has the feature that the apparatus further comprises means for moving the mould container parts filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.

[0005] The bricks fired from the green bricks produced using the apparatus according to the invention impart beautiful shadow effects to the wall into which they have been built when the sun shines thereon. This aesthetic effect is an important commercial advantage.

[0006] The edge-forming means are preferably adapted to move the mould container parts repeatedly for a certain period. Repeat in a number of times, for instance three times, is found in practice to be sufficient to obtain the intended effect.

[0007] In a practical preferred embodiment the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.

[0008] In a further preferred embodiment the edge-forming means comprise a frame which is adapted to engage individually in a mould container part. This preferred embodiment has the significant advantage that the edge-forming means can act on one mould container part while another mould container part undergoes another operation and is for instance filled with clay. The edge-forming means can therefore be added to the known apparatus without its affecting the production time.

**Description**

[0001] The invention relates to an apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carrying mould containers contained to mould container parts, a reservoir for clay arranged above the mould containers, means for conveying clay out of the reservoir into the mould containers, means for pressing and trimming clay in the mould containers, means for supplying and pacing take-off plates for the green bricks and means for discharging green bricks released from the mould containers. Such an apparatus is known in the field and is for instance described in the patent 1000180 of applicant. The known apparatus is extremely suitable for automated production of large numbers of green bricks for the brick manufacturing industry. The bricks fired from these green bricks have a substantially smooth, uniform appearance.

[0002] A recent demand has developed on the market for bricks which appear as if they have been manufactured according to traditional methods.

[0003] The invention has for its object to adapt the known apparatus such that it can produce in automated manner large numbers of green bricks with a traditional appearance.

[0004] For this purpose the apparatus according to the invention has the feature that the apparatus further comprises means for moving the mould container parts filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.

[0005] The bricks fired from the green bricks produced using the apparatus according to the invention impart beautiful shadow effects to the wall into which they have been built when the sun shines thereon. This aesthetic effect is an important commercial advantage.

[0006] The edge-forming means are preferably adapted to move the mould container parts repeatedly for a certain period. Repeat in a number of times, for instance three times, is found in practice to be sufficient to obtain the intended effect.

[0007] In a practical preferred embodiment the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.

[0008] In a further preferred embodiment the edge-forming means comprise a frame which is adapted to engage individually in a mould container part. This preferred embodiment has the significant advantage that the edge-forming means can act on one mould container part while another mould container part undergoes another operation and is for instance filled with clay. The edge-forming means can therefore be added to the known apparatus without its affecting the production time.

[0009] In yet another preferred embodiment the frame spans the mould container part and is provided on both sides with stop members which are situated during operation at the location of the side walls of the mould container part. An exceptionally compact embodiment of the invention is hereby realized which utilizes the available space efficiently and can be arranged without difficulty on the known apparatus.

[0010] In order to prevent unnecessary damage to the mould container parts, these latter are provided in the side walls with stop surfaces, preferably of plastic. In preference the stop members of the frame of the edge-forming means are also provided with these, preferably plastic, stop surfaces.

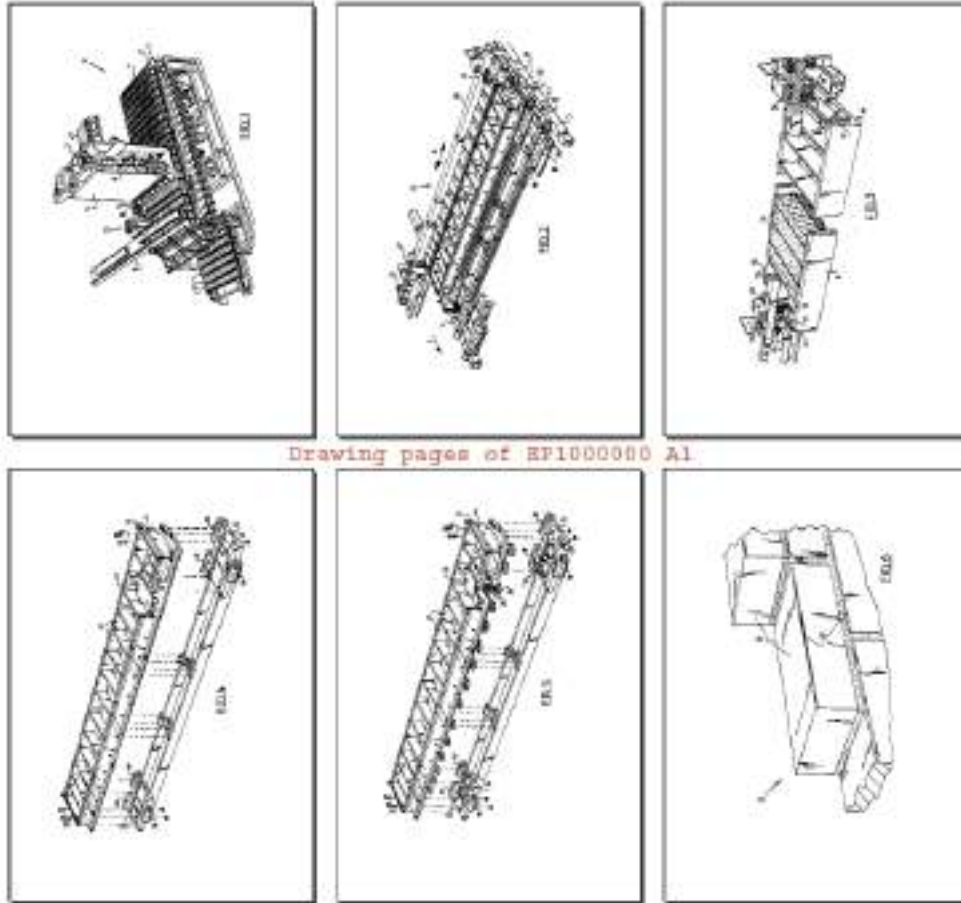
[0011] The invention is described in more detail hereinafter with reference to the drawing in which:

- Figure 1 shows schematically a preferred embodiment of the apparatus according to the invention;
- Figure 2 shows in more detail a perspective view of a part of the apparatus of figure 1 with the edge-forming means therein;
- Figure 3 shows the edge-forming means of figure 2 in even more detail;
- Figure 4 is a perspective view of a first preferred embodiment of a mould container part which is suitable for use in the apparatus according to the invention;
- Figure 5 is a perspective view of a second preferred embodiment of a mould container part; and
- Figure 6 shows schematically a part of a wall which has been built using bricks provided with an edge and fired from the green bricks manufactured using the apparatus according to the invention.

[0012] Like components are provided in the figures with like reference numerals.

[0013] Figure 1 shows a preferred embodiment of an apparatus for manufacturing green bricks for the brick manufacturing industry according to the invention. Apparatus 1 comprises a conveyor 3. Mould containers carried on a and are placed in the form of a mould container part 4 on the conveyor. The mould container parts fit closely

# The drawings



Drawing pages of EP1000080 A1

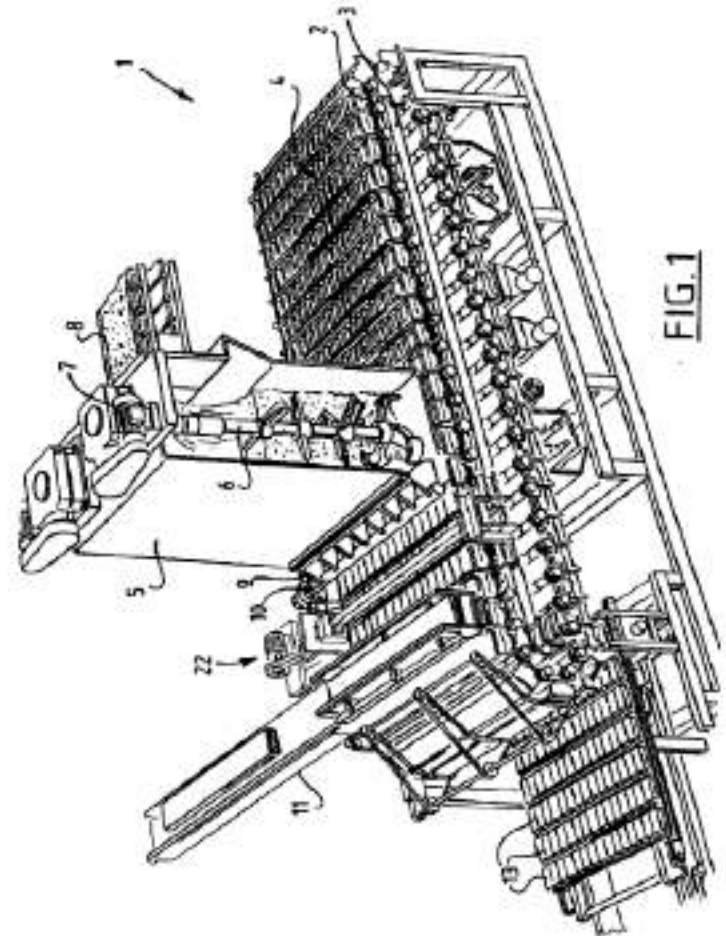


FIG.1

# The claims

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## Claims: EP1000000 (A1) — 2000-05-17

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### Apparatus for manufacturing green bricks for the brick manufacturing industry

#### Claims of EP1000000 (A1)

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[EP1000000 \(A1\)](#) [US6093301 \(A1\)](#)

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Original claims
Claims free

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1. Apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carry containers combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay reservoir into the mould containers, means for pressing and trimming clay in the mould containers, means for supplying and placing take-off plates for the green bricks and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means for moving the mould container parts filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.
2. Apparatus as claimed in claim 1, wherein the edge-forming means are adapted to move the mould container parts repeatedly for a certain period.
3. Apparatus as claimed in claim 1 or 2, wherein the edge-forming means are adapted to move the mould container parts substantially

- circulating conveyor carrying mould container parts, a reservoir for clay arranged above the mould containers, means for pressing clay into the mould containers, means for pressing and trimming clay in the mould containers, means for supplying and placing take-off plates for the green bricks and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means for moving the mould container parts filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.
4. Apparatus as claimed in claim 1, wherein the edge-forming means are adapted to move the mould container parts repeatedly for a certain period.
5. Apparatus as claimed in claim 1 or 2, wherein the edge-forming means are adapted to move the mould container parts substantially transversely of the transporting direction.
6. Apparatus as claimed in any of the foregoing claims, wherein the edge-forming means comprise a blade which is adapted to engage individually on a mould container part.
7. Apparatus as claimed in claim 4, wherein the frame supports the mould container part and is provided on both sides with stay members which are situated during operation at the location of the side walls of the mould container part.
8. Apparatus as claimed in claim 5, wherein the stay members are provided with stop surfaces which preferably comprise plastic.
9. Apparatus as claimed in claim 5 or 6, wherein the mould container parts are provided on their side walls with stop surfaces which preferably comprise plastic.
10. Apparatus as claimed in any of the foregoing claims, wherein each mould container part is provided with a number of support members for supporting the take-off plates at a distance above the green bricks.
11. Apparatus as claimed in any of the foregoing claims, wherein the mould container parts are fixed movably onto the conveyor with some clearance in the direction of movement.
12. Apparatus as claimed in claim 10, wherein the conveyor is a chain conveyor and the mould container parts are coupled with some clearance in the direction of movement to a main part accessible to the chain.



Refine search + Results + EP1000000 (A1) + Citations

EP1000000 (A1)

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1. Apparatus for manufacturing green bricks for the brick manufacturing process.

Inventor	Applicant	CPC	IPC	Publication info	Priority date
★ KOSMAN WILHELMUS JACOBUS MARIA (NL)	BOER BE-EEER NIJMEGEN BV DE (NL)	B28B5/02	B28B5/02	EP0600012 (A1) 1995-11-08 EP0600012 (B1) 2001-02-28	1994-05-03
		B28B7/00	B28B7/00		
		B28B7/01	B28B7/10		

2. Vorrichtung zur Herstellung von Vorlegesteinen.

Inventor	Applicant	CPC	IPC	Publication info	Priority date
★ KOSMAN WILHELMUS JACOBUS MARIA (NL)	BOER BE-EEER NIJMEGEN BV DE (NL)	B28B5/02	B28B13/00	NL8300642 (A) 1988-12-01	1984-02-25
		B28B5/02	B28B5/02		
		B28B5/02	B28B5/02		

3. Apparatus for shaping buoyancy results in a casting installation

Inventor	Applicant	CPC	IPC	Publication info	Priority date
★ ZAHN HANS (DE)	NETZSCH MASCHINENFABRIK (DE)	B28B1/00	B28B1/00	DE3948170 (A1) 1987-07-02	1985-12-27
		B28B5/02	B28B5/02		
		B28B1/08	B28B1/08		

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PATENTS CITED IN THE SEARCH REPORT

1. Apparatus for manufacturing green bricks

★ Inventor: Applicant

European Patent Office EUROPEAN SEARCH REPORT Application Number EP 99 20 3729

### DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Classification of document with indication, where appropriate, of relevant passages	Relevance to claims	Classification of the applicant's invention
A	EP 9 648 832 A (BOER SCHEER NIJMEGEN BV DE) 8 November 1995 (1995-11-08) = the whole document *	1, 10, 11	B28B5/02 B28B7/00 B28B1/29
A	NL 9 400 603 A (BOER SCHEER NIJMEGEN BV DE) 1 December 1995 (1995-12-01) = the whole document *	1, 3	
A	DE 35 46 191 A (NETZSCH MASCHINENFABRIK) 2 July 1987 (1987-07-02) = the whole document *	1-3, 8	

The present search report has been drawn up for all claims

Applicant: THE BASF Date of completion of the search: 05 February 2000 Examiner: Gouzier, P

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# Technology-specific: biochemistry

## Bibliographic data: US2010136531 (A1) — 2010-06-03

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### NUCLEIC ACID DETECTION USING LATERAL FLOW METHODS

Page bookmark: [US2010136531 \(A1\) - NUCLEIC ACID DETECTION USING LATERAL FLOW METHODS](#)

Inventor(s): GARTHWAITE IAN [AU], MYERS PHILIP A [AU], SADEK CHRISTINE M [AU] ±

Applicant(s): TECRA INTERNAT PTY LTD [AU] ±

Classification: - international: [C12Q1/68](#)

- cooperative: [C12Q1/6804](#); [C12Q1/6816](#); [G01N33/5308](#); [G01N33/558](#); [G01N33/56911](#); [G01N33/585](#) → more

Application number: [US20070296536](#) [20070410](#)

Priority number(s): [US20070296536](#) [20070410](#) : [AU20060901847](#) [20060410](#) : [US20060790536P](#) [20060410](#) : [WO2007R00923](#) [20070410](#)

Also published as: [WO2007116298 \(A2\)](#) : [WO2007116298 \(A3\)](#) : [EP2007903 \(A2\)](#) : [AU2007235649 \(A1\)](#)

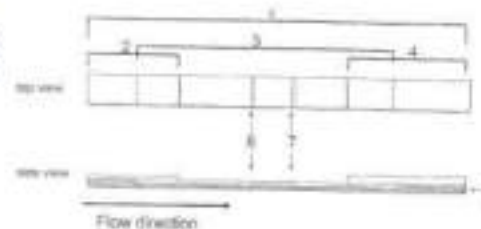
### Abstract of US2010136531 (A1)

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Methods and kits for use in detecting a target nucleic acid in a sample are disclosed. In one particular application, the methods and kits allow for the detection of an undesirable micro-organism (e.g. *Listeria*, *Salmonella* or *Enterobacteriaceae*) in food or present on a food preparation surface.



# Technology-specific: civil engineering

Bibliographic data: CN1152058 (A) — 1997-06-18

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## Super-long span suspension bridge

Page bookmark	<a href="#">CN1152058 (A) - Super-long span suspension bridge</a>
Inventor(s)	TADAKI KAWATA [JP]; MASAHRO KOMETA [JP]; SHUNZO NAKASAKI [JP]±
Applicant(s)	KAWADA KOGYO KK [JP] ±
Classification:	- international: <a href="#">E01D1/00</a> ; <a href="#">E01D11/00</a> ; <a href="#">E01D11/02</a> ; <a href="#">E01D2/00</a> ; (IPC1-7): E01D11/02 - cooperative: <a href="#">E01D11/02</a>
Application number:	CN199512242B 19951016
Priority number(s):	<a href="#">JP19950291691</a> 19951016
Also published as:	<a href="#">EP0768428 (A1)</a> <a href="#">EP0768425 (B1)</a> <a href="#">JP09111716 (A)</a> <a href="#">US5784739 (A)</a> <a href="#">ES2124086 (T3)</a>

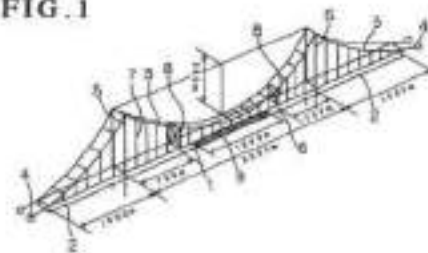
Abstract not available for CN1152058 (A)  
 Abstract of corresponding document: EP0768428 (A1)

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As a countermeasure against storms for long span, particularly super-long span suspension bridges with the center span (1) exceeding 2,000 m, there is provided a super-long span suspension bridge which can be improved of its static and dynamic wind resistance performance by applying a mass to a portion of the girder (6); In a suspension bridge with the center span (1) exceeding 2,000 m, a mass application member (10) capable of temporarily carrying a predetermined amount of additional load is provided on either side (9) of the stiffening girder (6) for a distance equal to 1/3 at the maximum of the center span (1) so that a mass weighing 30% or less of the weight of the girder (6) is temporarily applied in the mass application member (10) in the girder on the windward side when the bridge is subjected to a storm, and cross stays (8) are provided each at a point inward from either end of the center span section at a distance equal to 1/4 to 1/3 of the center span (1)

FIG. 1



# Legal status

*A1, A2 : Application (pending, abandoned)*

*B1, B2 ... : Granted*

EP1000000 (A1)
<b>Bibliographic data</b>
Description
Claims
Mosaics
Original document
Cited documents
Citing documents
<b>INPADOC legal status</b>
INPADOC patent family

## Bibliographic data: EP1000000 (A1) — 2000-05-17

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### Apparatus for manufacturing green bricks for the brick manufacturing industry

**Page bookmark** [EP1000000 \(A1\) - Apparatus for manufacturing green bricks for the brick manufacturing industry](#)

**Inventor(s):** [KOSMAN WILHELMUS JACOBUS MARIA \[NL\] ±](#)

**Applicant(s):** [BOER BEHEER NIJMEGEN BV DE \[NL\] ±](#)

**Classification:**

- international: [B28B1/29](#); [B28B5/02](#); [B28B7/00](#); [H02P6/08](#); (IPC1-7): [B28B1/29](#); [B28B5/02](#); [B28B7/00](#)
- cooperative: [B28B1/29](#); [B28B5/022](#); [B28B7/0064](#); [H02P6/08](#) → [more](#)

**Application number:** [EP19990203729](#) [19991108](#)

**Priority number(s):** [NL19981010536](#) [19981112](#)

**Also published as:** [EP1000000 \(B1\)](#) [US6093011 \(A\)](#) [NL1010536 \(C2\)](#) → [AT232441 \(T\)](#)

### Abstract of EP1000000 (A1)

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- **A3 document**

Separate publication of the European search report

- **A4 document**

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- **A9 document**

Complete reprint of an A document, ie. A1, A2 or A3 document.

### B document

European patent specification

- **B1 document**

- **B1 document**

European patent specification (granted patent)

- **B2 document**

New European patent specification (amended specification)

- **B3 document**

# Legal status: validity

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## INPADOC legal status: EP1000000 (A1) — 2000-05-17

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### Apparatus for manufacturing green bricks for the brick manufacturing industry

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Legal status of EP1000000 (A1) 2000-05-17; EP1000000 (B1) 2003-02-12:

EP	F	99203729 A (Patent of invention)
Event date :		2000/05/17
Event code :		AK
Code Expl.:		+ DESIGNATED CONTRACTING STATES:
KD OF CORRESP. PAT. :		A1
<b>DESIGNATED COUNTR. :</b>		AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Event date :		2000/05/17
Event code :		AX
Code Expl.:		+ EXTENSION OF THE EUROPEAN PATENT TO
<b>FURTHER INFORMATION :</b> AL;LT;LV;MK;RO;SI		

# Commercial relevance: technological impact (I)

US4800159 (A)
<b>Bibliographic data</b>
Description
Claims
Mosaics
Original document
Cited documents
<b>Citing documents</b>
INPADOC legal status
INPADOC patent family

## Bibliographic data: US4800159 (A) — 1989-01-24

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### Process for amplifying, detecting, and/or cloning nucleic acid sequences

<b>Page bookmark</b>	<a href="#">US4800159 (A) - Process for amplifying, detecting, and/or cloning nucleic acid sequences</a>
<b>Inventor(s)</b>	MULLIS KARY B [US]; ERLICH HENRY A [US]; ARNHEIM NORMAN [US]; HORN GLENN T [US]; SAKI RANDALL K [US]; SCHARF STEPHEN J [US] ±
<b>Applicant(s)</b>	CETUS CORP [US] ±
<b>Classification</b>	- <b>international:</b> <a href="#">C12Q1/68</a> ; (IPC1-7): C07H21/04; C12N15/00; C12P19/34 - <b>cooperative:</b> <a href="#">C12Q1/6858</a>
<b>Application number</b>	<a href="#">US</a> 19860943948 19861217
<b>Priority number(s)</b>	<a href="#">US19860828144</a> <a href="#">19860207</a> ; <a href="#">US19860943948</a> 19861217
<b>Also published as:</b>	<a href="#">📄 US4800159 (X5)</a> <a href="#">📄 US4800159 (X5)</a>

### Abstract of US4800159 (A)

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The present invention is directed to a process for amplifying and detecting any target nucleic acid sequence contained in a nucleic acid or mixture thereof. The process comprises treating separate complementary strands of the nucleic acid with a molar excess of two oligonucleotide primers; extending the primers to form complementary primer extension products which act as templates for synthesizing the desired nucleic acid sequence; and detecting the sequence so amplified. The steps of the reaction may be carried out stepwise or simultaneously and can be repeated as often as desired. In addition, a specific nucleic acid sequence may be cloned into a vector by using primers to amplify the sequence, which contain restriction sites on their non-complementary ends, and a nucleic acid fragment may be prepared from an existing shorter fragment using the amplification process.

# Commercial relevance: technological impact (II)

US4800159 (A)
Bibliographic data
Description
Claims
Mosaics
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Cited documents
<b>Citing documents</b>
INPADOC legal status
INPADOC patent family

## Citing documents: US4800159 (A) — 1989-01-24

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Approximately 1,329 document citing US4800159 (A)  
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### 1. Nucleic acid detection system and method for detecting influenza

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
CAI HONG [US] SONG JIAN [US]	CAI HONG [US] SONG JIAN [US] (+1)	C12P19/34 C12Q1/68	C12P19/34 C12Q1/68	US8980581 (B1) 2015-03-17	200

### 2. Microfluidic device for cell separation and uses thereof

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
TONER MEHMET [US] TRUSKEY GEORGE [US] (+1)	TONER MEHMET, TRUSKEY GEORGE, (+2)	B01L2200/0647 B01L2200/0658 B01L2300/0681 (+20)	B01L11/00 B01L3/00 C12M1/34 (+6)	US2006134599 (A1) 2006-06-22 US8895298 (B2) 2014-11-25	200

### 3. Oncolytic Farmington rhabdovirus

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
STOJDL DAVID F [CA]	OTTAWA HOSPITAL RES INST [CA]	A61K35/761 A61K35/763 A61K35/766 (+5)	A61K35/76 A61K35/761 A61K35/763 (+5)	EP2839837 (A1) 2015-02-25	200

### 4. Methods And Compositions For Detecting Aspergillus Terreus, Aspergillus Niger, And Mycotoxins

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HOOPER DENNIS G [US]	MEDICAL SERVICE CONSULTATION INTERNAT LLC [US]	C12Q1/6895 C12Q2561/113 C12Q2600/112	C12Q1/68	US2014221504 (A1) 2014-08-07 US8956821 (B2) 2015-02-17	2013-02-06

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248 (2010)

839 (May 2012)

980 (Nov 2012)

1 269 (Oct 2014)

1 329 (May 2015)



# Commercial relevance: movers and shakers

## Bibliographic data: US4800159 (A) — 1989-01-24

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### Process for amplifying, detecting, and/or cloning nucleic acid sequences

**Page bookmark**    [US4800159 \(A\) - Process for amplifying, detecting, and/or cloning nucleic acid sequences](#)

**Inventor(s):**    MULLIS KARY B [US]; ERLICH HENRY A [US]; ARNHEIM NORMAN [US]; HORN GLENN T [US]; SAIKI RANDALL K [US]; SCHARF STEPHEN J [US] ±

**Applicant(s):**    CETUS CORP [US] ±

**Btw, Owner (Assignee, Applicant) ≠ Inventor \***

**\*Except in some countries as the US**

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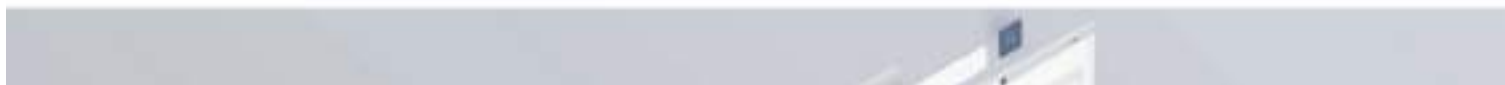


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Application number:  DE 19971031696

Priority number:  WO1995US15925

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Inventor(s):  Smith

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<input type="checkbox"/> C07K 16/1072	••••• (Regulatory proteins, e.g. tat, rev, vif)
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<input checked="" type="checkbox"/> C07K 16/109	•••• (Hepatitis C virus; Hepatitis G virus)
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<input type="checkbox"/> <b>A63C</b>	<b>SKATES; SKIS; ROLLER SKATES; DESIGN OR LAYOUT OF COURTS, RINKS OR THE LIKE</b> <span style="float: right;">D 1</span> <small>(devices for underwater sports <a href="#">A63B 31/00</a>, <a href="#">A63B 33/00</a>, <a href="#">B63C 11/00</a>; devices for gliding on water, e.g. water skis, <a href="#">B63B 35/79</a>, <a href="#">B63B 35/81</a>, <a href="#">B63B 35/83</a>)</small>

### Skis; Accessories for skiing

<input checked="" type="checkbox"/> <b>A63C 17/00</b>	<b>Roller skates; Skate-boards</b> <span style="float: right;">D</span>
<input type="checkbox"/> <b>A63C 17/0006</b>	• [Accessories]
<input type="checkbox"/> <b>A63C 17/0010</b>	•• [Devices used in combination with the skate but not fixed to it, e.g. supporting frames, sail sticks, auxiliary wheel aid <a href="#">B62D 51/06</a> Uniade walk-type tractors] <span style="float: right;">D</span>
<input type="checkbox"/> <b>A63C 17/002</b>	•• [Covers; Guards]
<input type="checkbox"/> <b>A63C 17/0026</b>	• [Roller skates used otherwise than standing or sitting on them, e.g. body skates]
<input type="checkbox"/> <b>A63C 17/0033</b>	• with a castor wheel, i.e. a swiveling follow-up wheel
<input type="checkbox"/> <b>A63C 17/004</b>	• with auxiliary wheels not contacting the riding surface during steady riding
<input type="checkbox"/> <b>A63C 17/0048</b>	• [with shock absorption or suspension system]
<input type="checkbox"/> <b>A63C 2017/0053</b>	• [with foot plate quick release or shoe] <span style="float: right;">Skis; Accessories for skiing</span>
<input type="checkbox"/> <b>A63C 17/006</b>	• [with wheels of different size or type] <span style="float: right;"> <input type="checkbox"/> <b>A63C 17/00</b> <b>Roller skates; Skate-boards</b> </span>
<input type="checkbox"/> <b>A63C 17/0066</b>	• [with inclined wheel, i.e. not perpendicular] <span style="float: right;"> <input type="checkbox"/> <b>A63C 17/12</b> • with driving mechanisms                 </span>
<input type="checkbox"/> <b>A63C 17/0073</b>	• [with offset wheel, i.e. wheel contact p
<input type="checkbox"/> <b>A63C 17/008</b>	• [with retractable wheel, i.e. movable relative to the chassis out of contact from surface]
<input type="checkbox"/> <b>A63C 17/0086</b>	• [Roller skates adjustable in length to fit the size of the foot]
<input type="checkbox"/> <b>A63C 17/0093</b>	• [Mechanisms transforming leaning into steering through an inclined geometrical axis, e.g. truck ( <a href="#">A63C 17/011</a> takes precedence)] <span style="float: right;">D</span>
<input type="checkbox"/> <b>A63C 17/01</b>	• Skateboards ( <a href="#">A63C 17/02</a> to <a href="#">A63C 17/08</a> take precedence, (rolling devices on skis <a href="#">A63C 5/035</a> )] <span style="float: right;">D</span>



## CPC classification

- Keywords or classes.
- ‘Concept search’.
- Prepare offline (not in Espacenet document databases).
- Principle:
  - Find most appropriate classifications
  - Copy (into advanced search mask)
  - Refine search with keywords (do not repeat)
  - Other search terms.

# Navigation (I)


## Breadcrumb navigation

The screenshot displays a search interface with a sidebar on the left and a main content area on the right. In the sidebar, there is a 'Refine search' link with a right-pointing arrow, followed by 'Results page 1'. Below this are three search options: 'Smart search', 'Advanced search', and 'Classification search'. Further down is a 'Quick help' section with a minus sign and a link: '→ Can I subscribe to an RSS feed of the result list?'. A red arrow points from the 'Refine search' link down to the text below. The main content area features a 'Result list' header with a small icon. Below the header is a toolbar with options: 'Select all (0/25)', 'Compact', 'Export ( CSV | XLS )', 'Download covers', and 'Print'. A summary bar below the toolbar states: 'Approximately 314 results found in the Worldwide database for: ((txt = time and txt = of) and txt = flight) and txt = mass) and txt = spectrometry using Smart search'. A page indicator '1' with a right arrow is visible in the top right of this bar.

Click Search to refine search

Can always use the browser 'back' button (but not to refine search)

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[Refine search](#) → [Results](#) → WO2011106640 (A2)

WO2011106640 (A2)
<b>Bibliographic data</b>
Description
Claims
Mosaics
Original document
Cited documents
Citing documents
INPADOC legal status
INPADOC patent family

- Quick help


---


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

## Bibliographic data: WO2011106640 (A2) — 2011-09-01

★ In my patents list
 ✕ EP Register
📄 Report data error
🖨️ Print

### PULSED MASS CALIBRATION IN TIME-OF-FLIGHT MASS SPECTROMETRY

<b>Page bookmark</b>	<a href="#">WO2011106640 (A2) - PULSED MASS CALIBRATION IN TIME-OF-FLIGHT MASS SPECTROMETRY</a>
<b>Inventor(s):</b>	<b>LEDFORD</b> EDWARD B JR [US]; TANMER CHRISTIAN [CH]; TANNER MARTIN [CH]; GONIN MARC [CH] ±
<b>Applicant(s):</b>	ZOEX LICENSING CORP [US]; LEDFORD EDWARD B JR [US]; TANMER CHRISTIAN [CH]; TANNER MARTIN [CH]; GONIN MARC [CH] ±
<b>Classification:</b>	- international: <a href="#">G01N27/62</a> ; <a href="#">H01J49/40</a>
	- cooperative: <a href="#">H01J49/0009</a>
<b>Application number:</b>	WO2011US26239 20110225
<b>Priority number(s):</b>	<a href="#">US20100308519P</a> 20100225
<b>Also published as:</b>	<input type="checkbox"/> <a href="#">WO2011106640 (A3)</a> ; <input type="checkbox"/> <a href="#">WO2011106640 (A4)</a> ; <input type="checkbox"/> <a href="#">US2013075598 (A1)</a> ; <input type="checkbox"/> <a href="#">US8829430 (B2)</a> ; <input type="checkbox"/> <a href="#">JP2013521470 (A)</a>
	<a href="#">+ more</a>



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Classification search

**Result list** 1

Select all (25/25)    Compact    Export (CSV | XLS)    Download covers    Print

Approximately 314 results found in the Worldwide database for: ((fct = firm and txt = of) and txt = flight) and txt = mass) and bd = spectrometry using Smart search 1

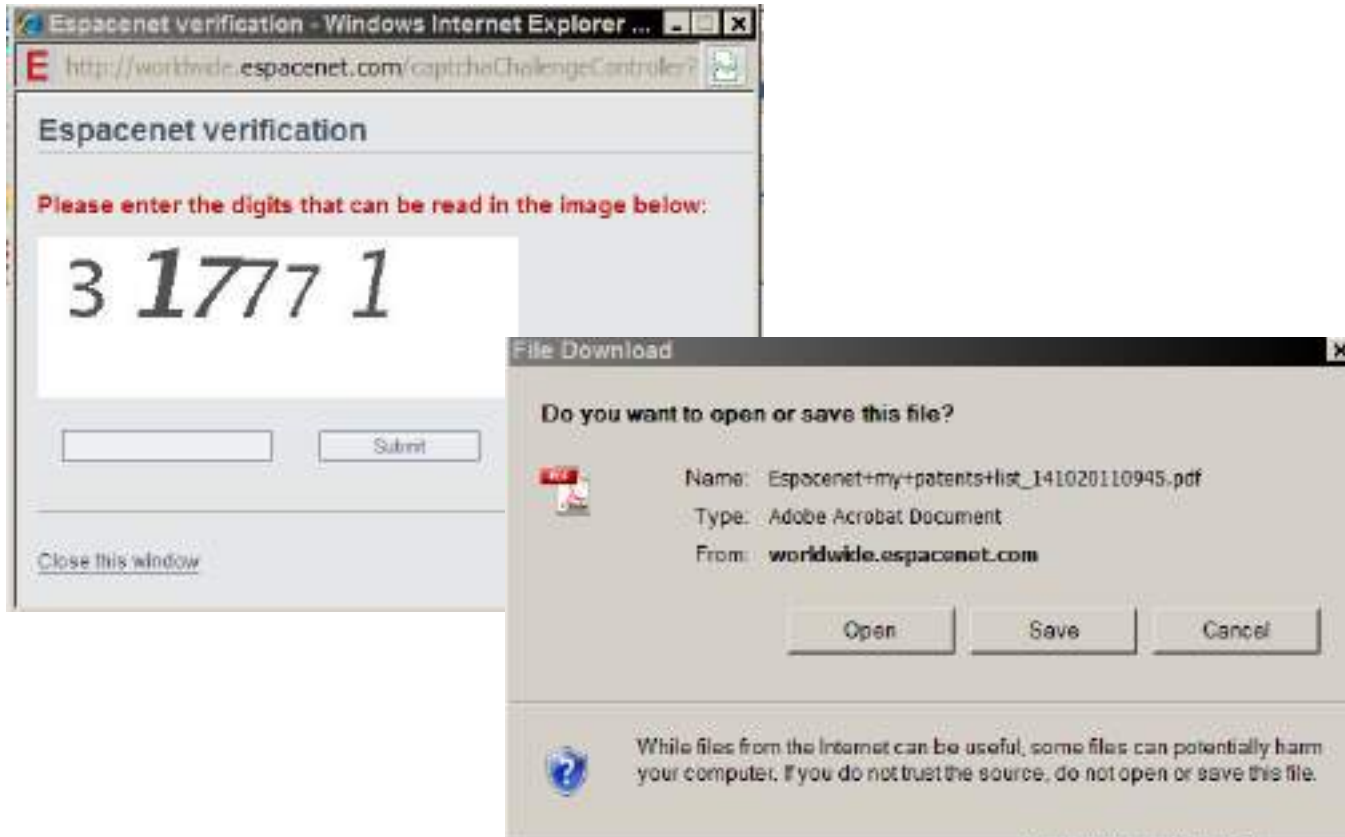
- Quick help
- Can I subscribe to an RSS feed of the result list?
  - What does the RSS reader do with the result list?
  - Can I export my result list?
  - What happens if I click on "Download covers"?
  - Why is the number of results sometimes only approximate?
  - Why is the list limited to 500 results?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

Sort by: Upload date    Sort order: Descending    Sort

	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
<input checked="" type="checkbox"/>	<b>Characterization of biochips containing self-assembled monolayers</b>					
★	MRSICHI MILAN [US] SU JING [US]	MRSICHI MILAN [US] SU JING [US] (+1)	B82Y15/00 B82Y31/00 C12Q1/02 (+4)	C12Q1/00 G01N33/543 G01N33/553 (+1)	US2014206576 (A1) 2014-07-24	2002-07-05
<input checked="" type="checkbox"/>	<b>RESOLUTION AND MASS RANGE PERFORMANCE IN DISTANCE OF FLIGHT MASS SPECTROMETRY WITH A MULTICHANNEL FOCAL-PLANE CAMERA DETECTOR</b>					
★	HEFTJE GARY M [US] ENKE CHRISTE GEORGE [US] (+5)	HEFTJE GARY M [US] ENKE CHRISTE GEORGE [US] (+7)	H01A93/04 H01A93/02	H01A93/04	US2014128638 (A1) 2014-05-22	2011-04-14
<input checked="" type="checkbox"/>	<b>LC-TOF (Liquid Chromatography-Quadrupole Time-Of-Flight) analysis method for distinguishing isozestrol of different isomers</b>					
★	ZHANG YING ZENG JIANGUO (+2)	HUNAN ACADEMY OF INSPECTION AND QUARANTINE	CPC:	IPC: G01N30/02	Publication info: CN103818522 (A) 2014-05-21	Priority date: 2014-02-13
<input checked="" type="checkbox"/>	<b>MULTIPLE REFLECTION TIME-OF-FLIGHT MASS ANALYZER</b>					
★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
		NONPROFIT CORP ALMAY UNIVERSITY OF POWER ENGINEERING AND TELECOMMUNICATIONS	H01A93/02	H01A93/04	WO2014073943 (A1) 2014-05-15	2012-11-07

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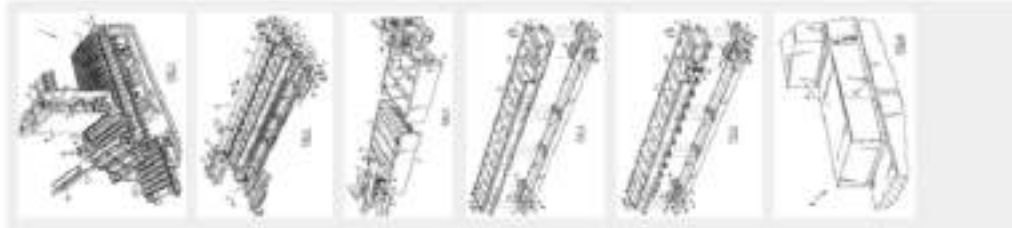
Publication	Title	Page
WO2011106640 (A2)	PULSED MASS CALIBRATION IN TIME-OF-FL	2
US2014206570 (A1)	Characterization of biochips containi	32
US2014138538 (A1)	RESOLUTION AND MASS RANGE PERFORMANCE...	49
CN103009922 (A)	LC-QTOF (Liquid Chromatography-Quadru	71
WO2014073943 (A1)	MULTIPLE REFLECTION TIME-OF-FLIGHT MA...	90

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## Dispositif pour la fabrication de briques crues utilisées dans l'industrie manufacturière des briques

Images (6)



### Classifications

- B28B5/022 Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in, or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type the shaped articles being of definite length the moulds or the moulding surfaces being individual independent units and being discontinuously fed

[View 3 more classifications](#)

EP1000000B1

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Other languages: [German](#), [English](#)

Inventor: [Wilhelmus Jacobus Maria Kosman](#)

Current Assignee: [Beheermaatschappij De Boer Nijmegen BV](#)

### Worldwide applications

1998 · [NL US](#) 1999 · [AT EP DE](#)

### Application EP99203729A events ⓘ

1998-11-12 · Priority to NL1010536

1998-11-12 · Priority to NL1010536A

1999-11-08 · Application filed by Beheermaatschappij De Boer Nijmegen BV

2000-05-17 · Publication of EP1000000A1

2003-02-12 · Application granted

2003-02-12 · Publication of EP1000000B1

2019-11-08 · Anticipated expiration

2020-01-28 · Application status is Not-in-force

Info: [Patent citations \(6\)](#), [Cited by \(6\)](#), [Legal events](#), [Similar documents](#), [Priority and Related Applications](#)

External links: [Espacenet](#), [EPO GPI](#), [EP Register](#), [Global Dossier](#),



# EXERCISES

## Exercise 1

- How would you find EP1000000 in Espacenet?
- What is the title of this patent?
- How many simple family members does it have?

## Exercise 2

- Albert Einstein and Leo Szilard were friends and colleagues. Albert was known for his theoretical work on relativity, the photoelectric effect and the kinetic theory of matter. Leo was an experimental physicist who conceived nuclear chain reactions, the electron microscope, the linear accelerator and the cyclotron.
- Leo and Albert worked together on inventions in a completely different field. What was that field?

## Exercise 3

Imagine you need to look for computer-controlled ABS by means of microprocessors.

- How would you find suitable patent classifications?
  
- How would you find out how many patents the following companies have in this technology?
  - Citroën
  - Mitsubishi
  - Volkswagen
  - Nissan

# Technology Watch and Competitive Intelligence

## Patents and utility models as information source

The existing collection of patents and utility models represents the largest technical database in existence. Approx. 40 million documents (1 million yearly)

- Getting to know the state of the art in a particular technological field
- Getting to know your competitors, experts and potential new partners through their inventions
- Avoid possible third-party patent infringement
- Discover new business opportunities
- Come up with new R&D project proposals
- Reach licensing agreements
- Oppose other patents
- Detecting changes in new technologies, markets, competitors, etc.
- Detecting novel ideas and solutions
- Follow the activity of competitors

## Online resources

- **Patents and other IP tools**
  - European Patent Office EPO [www.epo.org](http://www.epo.org)
  - EPO patent search: Espacenet [www.espacenet.com](http://www.espacenet.com)
  - WIPO (World IP organization, <http://wipo.int>) including country profiles and a directory of intellectual property offices
  - WIPO patent search: [Patentscope](http://patentscope.wipo.int)
  - IPR Helpdesk (<http://www.iprhelphdesk.eu/> )

# Information sources and tools for trade marks and designs





# Conventional trade marks

- Words, letters and numerals, slogans
- Figurative elements, logos
- Three-dimensional shapes
- Colours



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**PHILIPS**



*Coca-Cola*



# List of tools and sources

## ▪ **Public databases**

- for trade marks
  - TMview
  - TMclass
- for designs
  - DesignView
- for EUTMs and RCDs
  - eSearch Plus
  - EuroLocarno
  - eSearch Case Law

## ▪ **EUIPO Registry**

- EUTM Register
- RCD Register

## Searching for trade marks

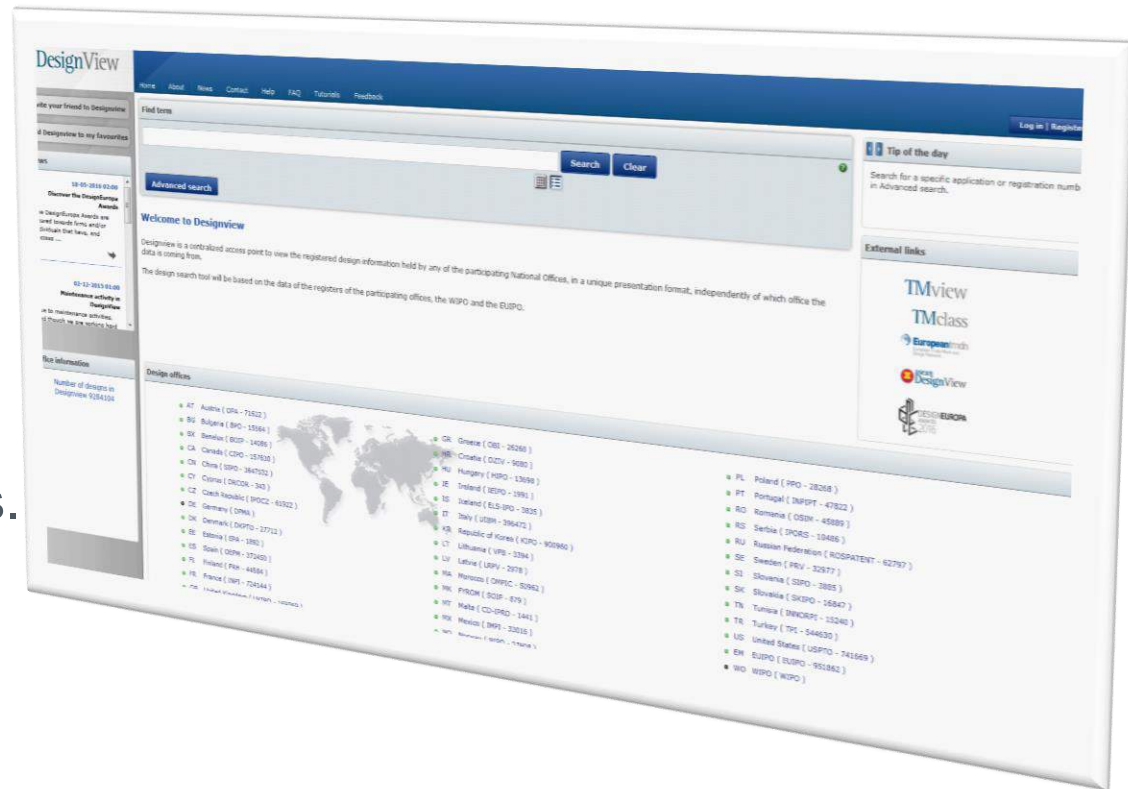
- Why search for existing trade marks?
  - To maintain peaceful coexistence on the market
  - To protect your own trade marks against similar marks
  
- Why might it be difficult?
  - Different sources and formats
  - Different languages
  - Some signs may not be registered

## TMclass

- A free online tool for use in **searching for and classifying goods and services** – information which is needed when registering a trade mark.
- The **central point** from which to access terms that appear in the classification databases of the participating offices.

# Searching using DesignView

- Central access point for information on **designs** from:
  - national offices in the EU
  - the EUIPO.
  
- EU-wide search
  - national designs
  - RCDs.
  
- All official EU languages.
  
- Similar to TMview.



# DesignView search formats: 'List' mode and 'Gallery' mode

