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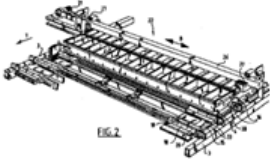
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 Europäisches Patentamt European Patent Office Office européen des brevets		(11) <b>EP 1 000 000 A1</b>
<b>EUROPEAN PATENT APPLICATION</b>		
(43) Date of publication: 17.05.2000 Bulletin 2000/20	(51) Int. Cl. <sup>7</sup> : <b>B28B 5/02, B28B 7/00, B28B 1/29</b>	
(21) Application number: <b>99203729.1</b>		
(22) Date of filing: <b>08.11.1999</b>		
(84) Designated Contracting States: <b>AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE</b> Designated Extension States: <b>AL LT LV MK RO SI</b>		(72) Inventor: <b>Kosman, Wilhelmus Jacobus Maria 6562 DA Groesbeek (NL)</b>
(30) Priority: <b>12.11.1998 NL 1010536</b>		(74) Representative: <b>Schumann, Bernard Herman Johan et al Arnold &amp; Siedsma, Advocaten en Octrooigemachtigden, Sweelinckplein 1 2517 GK Den Haag (NL)</b>
(71) Applicant: <b>Beheermaatschappij De Boer Nijmegen B.V. 6541 BS Nijmegen (NL)</b>		
(54) <b>Apparatus for manufacturing green bricks for the brick manufacturing industry</b>		
(57) The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers, means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a		protruding edge is formed on at least one side of the green bricks.
		
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### 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](#)

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**Application number:**    EP 19990203729 19991108

**Priority number(s):**    NL 19981010536 19981112

**Also published as:**    [EP1000000 \(B1\)](#)    [US6093011 \(A1\)](#)    [NL1010536 \(C2\)](#)    → [AT232441 \(T\)](#)

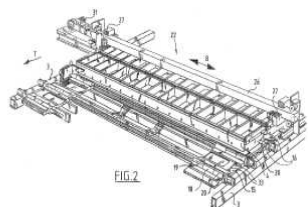
#### Abstract of EP1000000 (A1)

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The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers, means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a protruding edge is formed on at least one side of the green bricks.



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(11)    **EP 1 000 000 A1**

(12)    **EUROPEAN PATENT APPLICATION**

(43) **Date of publication:**    (51) Int. Cl.<sup>7</sup>:    **B28B 5/02, B28B 7/00, B28B 1/29**

17.05.2000 Bulletin 2000/20

(21) **Application number:**    **99203729.1**

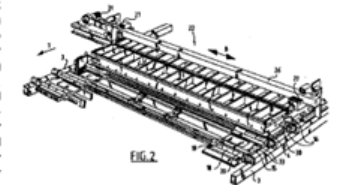
(22) **Date of filing:**    **08.11.1999**

<p>(84) <b>Designated Contracting States:</b> <b>AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE</b></p> <p><b>Designated Extension States:</b> <b>AL LT LV MK RO SI</b></p> <p>(30) <b>Priority:</b>    <b>12.11.1998 NL 1010536</b></p> <p>(71) <b>Applicant:</b>    <b>Beheermaatschappij De Boer Nijmegen B.V.</b> <b>6541 BS Nijmegen (NL)</b></p>	<p>(72) <b>Inventor:</b>    <b>Kosman, Wilhelmus Jacobus Maria</b> <b>6562 DA Groesbeek (NL)</b></p> <p>(74) <b>Representative:</b> <b>Schumann, Bernard Herman Johan et al</b> <b>Arnold &amp; Siedsma,</b> <b>Advocaten en Octrooigemachtigden,</b> <b>Sweelinckplein 1</b> <b>2517 GK Den Haag (NL)</b></p>
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#### (54) Apparatus for manufacturing green bricks for the brick manufacturing industry

(57) The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers, means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a

protruding edge is formed on at least one side of the green bricks.



EP 1 000 000 A1

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

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

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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 combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the 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. Such an apparatus is known in the field and is for instance described in the patent 1000186 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. Repetition 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 on 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 this 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 combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the 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. Such an apparatus is known in the field and is for instance described in the patent 1000186 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. Repetition 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 on 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 this 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 economically 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 on their 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 hereinbelow 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

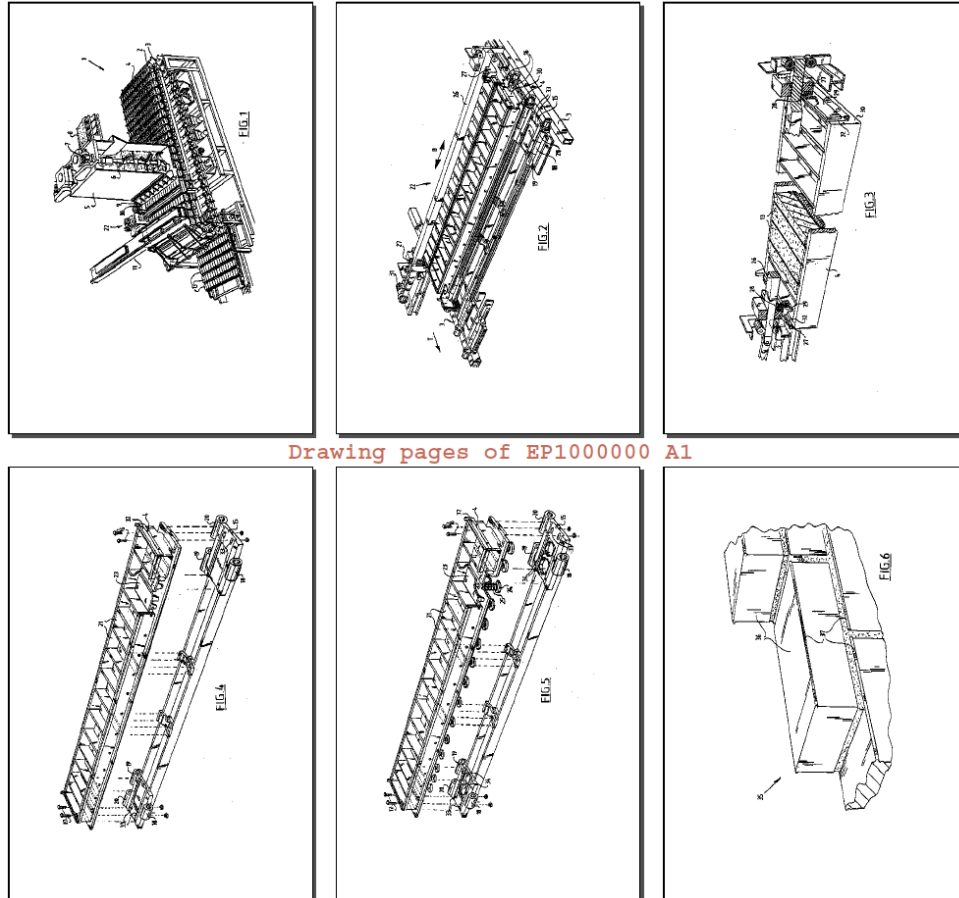
figure 6 shows schematically a part of a wall which has been built using bricks provided with an edge and fired from the green bricks manufactured using the apparatus according to the invention.

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

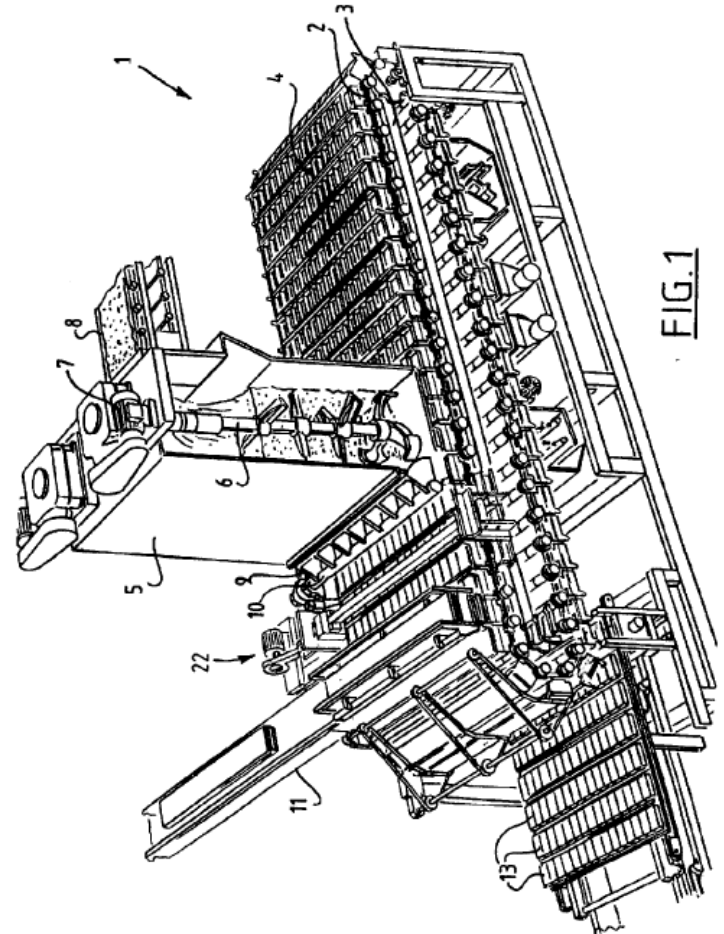
[0013] Figure 1 shows a preferred embodiment of an apparatus for manufacturing green bricks for the brick manufacturing industry according to the invention. Apparatus 1 comprises a conveyor 3. Mould containers combined to a unit are placed in the form of a mould container part 4 on the conveyor. The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



# The drawings



Drawing pages of EP1000000 A1



# 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

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Original claims Claims tree

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1. Apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carrying mould containers combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the 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 containers combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the 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 transversely of the transporting direction.
4. Apparatus as claimed in any of the foregoing claims, wherein the edge-forming means comprise a frame which is adapted to engage individually on a mould container part.
5. Apparatus as claimed in claim 4, wherein 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.
6. Apparatus as claimed in claim 5, wherein the stop members are provided with stop surfaces which preferably comprise plastic.
7. 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.
8. Apparatus as claimed in claim 4, 5, 6 or 7, wherein the edge-forming means comprise an eccentric drive for the frame.
9. Apparatus as claimed in any of the foregoing claims, wherein each mould container part is provided with a number of spacer members for supporting the take-off plates at a distance above the green bricks.
10. 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.
11. 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 chain part connectable to the chain.

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

★ **Inventor:** KOSMAN WILHELMUS JACOBUS MARIA [NL] **Applicant:** BOER BEHEER NIJMEGEN BV DE [NL] **CPC:** B28B5/022 B28B7/0014 B28B7/10 **IPC:** B28B5/02 B28B7/00 B28B7/10 (+3) **Publication info:** EP0680812 (A1) 1995-11-08 EP0680812 (B1) 2001-02-28 **Priority date:** 1994-05-06

#### 2. Inrichting voor het vervaardigen van vormlingen.

★ **Inventor:** KOSMAN WILHELMUS JACOBUS MARIA [NL] **Applicant:** BOER BEHEER NIJMEGEN BV DE [NL] **CPC:** B28B13/0205 B28B5/022 **IPC:** B28B13/02 B28B5/02 (IPC1-7); B28B5/02 **Publication info:** NL9400663 (A) 1995-12-01 **Priority date:** 1994-04-25

#### 3. Apparatus for shaking foundry moulds in a casting installation

★ **Inventor:** ZAHN HANS [DE] **Applicant:** NETZSCH MASCHINENFABRIK [DE] **CPC:** B28B1/0873 B28B5/022 **IPC:** B28B1/087 B28B5/02 (IPC1-7); B28B1/08 (+1) **Publication info:** DE3546191 (A1) 1987-07-02 **Priority date:** 1985-12-27

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

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (ECLA/7)
A	EP 0 680 812 A (BOER BEHEER NIJMEGEN BV DE) 8 November 1995 (1995-11-08) * the whole document *	1,10,11	B28B5/02 B28B7/00 B28B1/29
A	NL 9 400 663 A (BOER BEHEER 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			TECHNICAL FIELDS SEARCHED (ECLA/7) B28B
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#### 1. Apparatus for manufacturing green bricks

★ **Inventor:** **Applicant:**

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

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**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

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**Application number:** **EP** 19990203729 19991108

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

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**EP1000000** - **Apparatus for manufacturing green bricks for the brick manufacturing industry** [ Right-click to bookmark this link ]

<b>Status</b>	No opposition filed within time limit <i>Database last updated on 06.02.2012</i>		
<b>Most recent event</b>	02.12.2011	New entry: Observations by third parties	
<b>Applicant(s)</b>	For all designated states Beheermaatschappij De Boer Nijmegen B.V. Koopvaardijweg 2 6541 BS Nijmegen / NL  [2000/20]		
<b>Inventor(s)</b>	01 / Kosman, Wilhelmus Jacobus Maria Bredeweg 9 6562 DA Groesbeek / NL  [2000/20]		
<b>Representative(s)</b>	† Jong, Bastiaan Jacobus , et al Arnold & Siedsma Sweelinckplein 1 2517 GK The Hague / NL  [2008/34]		
<b>Application number, filing date</b>	99203729.1	08.11.1999	
	[2000/20]		
<b>Priority number, date</b>	NL19981010536	12.11.1998	Original published format: NL 1010536
	[2000/20]		
<b>Filing language</b>	NL		
<b>Procedural language</b>	EN		
<b>Publication</b>	<b>Type :</b>	A1 Application with search report	
	<b>No. :</b>	<b>EP1000000</b>	



# Commercial relevance: technological impact (I)

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

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➤ EP Register

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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] ±


**Classification:** - **international:** **C12Q1/68**; (IPC1-7): C07H21/04; C12N15/00; C12P19/34  
- **cooperative:** **C12Q1/6858**

**Application number:** **US**19860943948 19861217

**Priority number(s):** [US19860828144](#) [19860207](#) ; [US19860943948](#) 19861217

**Also published as:** [📄 US4800159 \(X6\)](#) [📄 US4800159 \(X6\)](#)

### 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.

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

# Commercial relevance: technological impact (II)

US4800159 (A)
Bibliographic data
Description
Claims
Mosaics
Original document
Cited documents
<b>Citing documents</b>
INPADOC legal status
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Approximately 1,329 document citing US4800159 (A)  
Only the first 500 results are displayed. 1 ▾

Results are sorted by date of upload in database

### 1. Nucleic acid detection system and method for detecting influenza

★	<b>Inventor:</b> CAI HONG [US] SONG JIAN [US]	<b>Applicant:</b> CAI HONG [US] SONG JIAN [US] (+1)	<b>CPC:</b> <a href="#">C12P19/34</a> <a href="#">C12Q1/68</a>	<b>IPC:</b> C12P19/34 C12Q1/68	<b>Publication info:</b> US8980561 (B1) 2015-03-17	<b>Priority date:</b> 2006-08-22
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### 2. Microfluidic device for cell separation and uses thereof

★	<b>Inventor:</b> TONER MEHMET [US] TRUSKEY GEORGE [US] (+1)	<b>Applicant:</b> TONER MEHMET, TRUSKEY GEORGE, (+2)	<b>CPC:</b> <a href="#">B01L2200/0647</a> <a href="#">B01L2200/0668</a> <a href="#">B01L2300/0681</a> (+20)	<b>IPC:</b> B01L11/00 B01L3/00 C12M1/34 (+6)	<b>Publication info:</b> US2006134599 (A1) 2006-06-22 US8895298 (B2) 2014-11-25	<b>Priority date:</b> 2002-09-27
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### 3. Oncolytic Farmington rhabdovirus

★	<b>Inventor:</b> STOJDL DAVID F [CA]	<b>Applicant:</b> OTTAWA HOSPITAL RES INST [CA]	<b>CPC:</b> <a href="#">A61K35/761</a> <a href="#">A61K35/763</a> <a href="#">A61K35/766</a> (+6)	<b>IPC:</b> A61K35/76 A61K35/761 A61K35/763 (+6)	<b>Publication info:</b> EP2839837 (A1) 2015-02-25	<b>Priority date:</b> 2006-09-15
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### 4. Methods And Compositions For Detecting Aspergillus Terreus, Aspergillus Niger, And Mycotoxins

★	<b>Inventor:</b> HOOPER DENNIS G [US]	<b>Applicant:</b> MEDICAL SERVICE CONSULTATION INTERNAT LLC [US]	<b>CPC:</b> <a href="#">C12Q1/6895</a> <a href="#">C12Q2561/113</a> <a href="#">C12Q2600/112</a>	<b>IPC:</b> C12Q1/68	<b>Publication info:</b> US2014221504 (A1) 2014-08-07 US8956821 (B2) 2015-02-17	<b>Priority date:</b> 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] ±

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Application number: [i](#) DE19971031696

Priority number: [i](#) WO1995US15925

Enter one or more dates or date ranges

Publication date: [i](#) yyyyymmdd

Enter name of one or more persons/organisations

Applicant(s): [i](#) Institut Pasteur

Inventor(s): [i](#) Smith

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IPC [i](#) H03M1/12

# CPC classification search

## Cooperative Patent Classification

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A »

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING <a href="#">i</a>
<input type="checkbox"/> C	CHEMISTRY; METALLURGY <a href="#">i</a>
<input type="checkbox"/> D	TEXTILES; PAPER
<input type="checkbox"/> E	FIXED CONSTRUCTIONS
<input type="checkbox"/> F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS <a href="#">i</a>
<input type="checkbox"/> G	PHYSICS <a href="#">i</a>
<input type="checkbox"/> H	ELECTRICITY <a href="#">i</a>
<input type="checkbox"/> Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS <a href="#">i</a>

## Keywords or classes

# CPC classification search by keywords (I)

## Cooperative Patent Classification

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A »

Symbol	Classification and description		
<input type="checkbox"/> A	HUMAN NECESSITIES		
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING		
<input type="checkbox"/> C	CHEMISTRY; METALLURGY		
<input type="checkbox"/> D	TEXTILES; PAPER		
<input type="checkbox"/> E	FIXED CONSTRUCTIONS		
<input type="checkbox"/> F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS		
<input type="checkbox"/> G	PHYSICS		
<input type="checkbox"/> H	ELECTRICITY		
<input type="checkbox"/> Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS		

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## Cooperative Patent Classification

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[A »](#)

Symbol	Classification and description
<input type="checkbox"/> <span style="color: red;">C07K 16/00</span>	Immunoglobulins [IGs], e.g. monoclonal or polyclonal antibodies {(antibodies with enzymatic activity, e.g. abzymes <a href="#">C12N 9/0002</a> )}
<input type="checkbox"/> <span style="color: red;">C07K 2317/00</span>	Immunoglobulins specific features
<input type="checkbox"/> <span style="color: red;">A61K 39/00</span>	Medicinal preparations containing antigens or antibodies (materials for immunoassay <a href="#">G01N 33/53</a> )
<input type="checkbox"/> <span style="color: red;">C07K 14/00</span>	Peptides having more than 20 amino acids; Gastrins; Somatostatins; Melanotropins; Derivatives thereof
<input type="checkbox"/> <span style="color: red;">G01N 33/00</span>	Investigating or analysing materials by specific methods not covered by the preceding groups
<input type="checkbox"/> <span style="color: red;">C07K 2319/00</span>	Fusion polypeptide
<input type="checkbox"/> <span style="color: red;">A61K 47/00</span>	Medicinal preparations characterised by the non-active ingredients used, e.g. carriers, inert additives
<input type="checkbox"/> <span style="color: red;">A61K 45/00</span>	Medicinal preparations containing active ingredients not provided for in groups <a href="#">A61K 31/00</a> to <a href="#">A61K 41/00</a>
<input type="checkbox"/> <span style="color: red;">A61K 38/00</span>	Medicinal preparations containing peptides (peptides containing beta-lactam rings <a href="#">A61K 31/00</a> ; cyclic dipeptides not having in their molecule any other peptide link than those which form their ring, e.g. piperazine-2,5-diones, <a href="#">A61K 31/00</a> ; ergot alkaloids of the cyclic peptide type <a href="#">A61K 31/48</a> ; containing macromolecular compounds having statistically distributed amino acid units <a href="#">A61K 31/74</a> ; medicinal preparations containing antigens or antibodies <a href="#">A61K 39/00</a> ; medicinal preparations characterised by the non-active ingredients, e.g. peptides as drug carriers, <a href="#">A61K 47/00</a> )

# CPC classification search: use classification in search

**Selected classifications**

C07K16/109 /low x

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Symbol	Classification and description
★★★★★ <input type="checkbox"/> C07K 16/00	Immunoglobulins [IGs], e.g. monoclonal or polyclonal antibodies ({antibodies with enzymatic activity, e.g. abzymes <a href="#">C12N9/0002</a> })
<input type="checkbox"/> C07K 16/005	•{constructed by phage libraries}
<input type="checkbox"/> C07K 16/02	•from eggs
<input type="checkbox"/> C07K 16/04	•from milk
<input type="checkbox"/> C07K 16/06	•from serum
<input type="checkbox"/> C07K 16/065	••{Purification, fragmentation}
<input type="checkbox"/> C07K 16/08	•against material from viruses
<input type="checkbox"/> C07K 16/081	••{from DNA viruses}
<input type="checkbox"/> C07K 16/082	•••{Hepadnaviridae, e.g. hepatitis B virus}
<input type="checkbox"/> C07K 16/084	•••{Papovaviridae, e.g. papillomavirus, polyomavirus, SV40, BK virus, JC virus}
<input type="checkbox"/> C07K 16/085	•••{Herpetoviridae, e.g. pseudorabies virus, Epstein-Barr virus}
<input type="checkbox"/> C07K 16/087	••••{Herpes simplex virus}
<input type="checkbox"/> C07K 16/088	•••••{Varicella-zoster virus, e.g. cytomegalovirus}
<input type="checkbox"/> C07K 16/10	••from RNA viruses, {e.g. hepatitis E virus}
<input type="checkbox"/> C07K 16/1009	•••{Picornaviridae, e.g. hepatitis A virus}
<input type="checkbox"/> C07K 16/1018	•••{Orthomyxoviridae, e.g. influenza virus}
<input type="checkbox"/> C07K 16/1027	•••{Paramyxoviridae, e.g. respiratory syncytial virus}
<input type="checkbox"/> C07K 16/1036	•••{Retroviridae, e.g. leukemia viruses}
<input type="checkbox"/> C07K 16/1045	•••••{Lentiviridae, e.g. HIV, FIV, SIV}
<input type="checkbox"/> C07K 16/1054	••••••{gag-pol, e.g. p17, p24}
<input type="checkbox"/> C07K 16/1063	•••••••{env, e.g. gp41, gp110/120, gp160, V3, PND, CD4 binding site}
<input type="checkbox"/> C07K 16/1072	••••••••{Regulatory proteins, e.g. tat, rev, vpt}
<input type="checkbox"/> C07K 16/1081	•••{Togaviridae, e.g. flavivirus, rubella virus, hog cholera virus}
<input checked="" type="checkbox"/> C07K 16/109	•••••{Hepatitis C virus; Hepatitis G virus}
<input type="checkbox"/> C07K 16/12	•against material from bacteria
<input type="checkbox"/> C07K 16/1203	••{from Gram-negative bacteria}

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<input type="checkbox"/> <a href="#">C</a>	CHEMISTRY; METALLURGY	<input type="button" value="s"/>	<input type="button" value="i"/>
<input type="checkbox"/> <a href="#">D</a>	TEXTILES; PAPER	<input type="button" value="s"/>	
<input type="checkbox"/> <a href="#">E</a>	FIXED CONSTRUCTIONS	<input type="button" value="s"/>	
<input type="checkbox"/> <a href="#">F</a>	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING ENGINES OR PUMPS	<input type="button" value="s"/>	<input type="button" value="i"/>
<input type="checkbox"/> <a href="#">G</a>	PHYSICS	<input type="button" value="s"/>	<input type="button" value="i"/>
<input type="checkbox"/> <a href="#">H</a>	ELECTRICITY	<input type="button" value="s"/>	<input type="button" value="i"/>
<input type="checkbox"/> <a href="#">Y</a>	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS	<input type="button" value="s"/>	<input type="button" value="i"/>

# CPC classification search by symbol (II)

## Cooperative Patent Classification

Search for  Search View section Index **A** B C D E F G H Y

« A63C13/00 A63C19/00 »

Symbol	Classification and description
<input checked="" type="checkbox"/> <b>A</b>	<b>HUMAN NECESSITIES</b>

### Health; amusement

<input type="checkbox"/> <b>A63</b>	<b>SPORTS; GAMES; AMUSEMENTS</b>
<input type="checkbox"/> <b>A63C</b>	<b>SKATES; SKIS; ROLLER SKATES; DESIGN OR LAYOUT OF COURTS, RINKS OR THE LIKE</b> (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> )

### Skis; Accessories for skiing

<input type="checkbox"/> <b>A63C 17/00</b>	<b>Roller skates; Skate-boards</b>	<b>D</b>
<input type="checkbox"/> <b>A63C 17/0006</b>	• {Accessories}	
<input type="checkbox"/> <b>A63C 17/0013</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> Uniaxle walk-type tractors}	<b>D</b>
<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 17/0046</b>	• {with shock absorption or suspension system}	
<input type="checkbox"/> <b>A63C 2017/0053</b>	• {with foot plate quick release or shoe	<b>Skis; Accessories for skiing</b>
<input type="checkbox"/> <b>A63C 17/006</b>	• {with wheels of different size or type}	<input type="checkbox"/> <b>A63C 17/00</b> <b>Roller skates; Skate-boards</b>
<input type="checkbox"/> <b>A63C 17/0066</b>	• {with inclined wheel, i.e. not perpendicular}	<input type="checkbox"/> <b>A63C 17/12</b> • with driving mechanisms
<input type="checkbox"/> <b>A63C 17/0073</b>	• {with offset wheel, i.e. wheel contact perpendicular to the riding surface}	
<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)}	<b>D</b>
<input type="checkbox"/> <b>A63C 17/01</b>	• Skateboards ( <a href="#">A63C 17/02</a> to <a href="#">A63C 17/28</a> take precedence; { rolling devices on skis <a href="#">A63C 5/035</a> })	<b>D</b>



# CPC classification

- Keywords or classes
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  - Copy (into advanced search mask)
  - Refine search with keywords (do not repeat)
  - Other search terms

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**DOG WASTE** in the title or abstract AND **BORMAN** as the inventor

1. **Dog , waste catcher and holder**

★ <b>Inventor:</b> <b>BORMAN</b> SETSUKO [US]	<b>Applicant:</b>	<b>CPC:</b> <u>A01K23/005</u>	<b>IPC:</b> A01K23/00 (IPC1-7): A01K29/00 E01H1/12	<b>Publication info:</b> US2004201232 (A1) 2004-10-14 US7090268 (B2) 2006-08-15	F 2
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# **THE EUROPEAN PATENT REGISTER**

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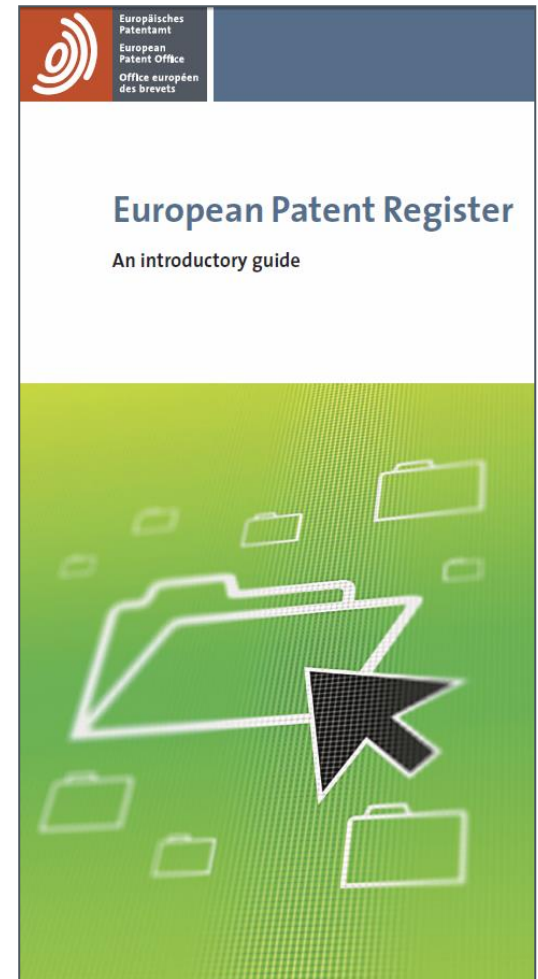
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# Access and availability

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- Access to public correspondence between the EPO and the patent applicant/attorney
- Direct access to the SIPO, KIPO, JPO and US file wrappers
- Links to appeal decisions
- Third-party observations
- Links to document sources (Espacenet, Publication Server)
- Possibility to follow progress of applications through different stages of the procedure



# Information sources and tools for trade marks and designs



# List of tools and sources

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

## ▪ **EUIPO Registry**

- EUTM Register
- RCD Register

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- 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

# Searching using TMview

- All information in **one search tool**:
  - information from national offices, EUIPO and WIPO
  - trade marks registered at national, EU and international level
  - in many EU languages
- Two search formats:
  - quick search
  - advanced search

The screenshot displays the TMview website interface. The top navigation bar includes links for Home, About, News, Contact, Help, FAQ, Tutorials, and Enquiries. A search bar is prominently featured with 'Find term' and 'Advanced search' buttons. The left sidebar contains sections for 'Share with a friend', 'Add TMview to my favourites', 'News' (with two recent news items), and 'Office information' (showing the number of trade marks in TMview as 24808422). The main content area includes 'What is TMview?' and 'How can TMview help you?' sections. A world map highlights the 'Trade mark offices' section, listing 28 countries with their respective office codes and names.

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DE	DPMA - 1766534	Germany
DK	DKPTO - 278753	Denmark
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GR	GGE - 236697	Greece
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MT	CD-IPRD - 51918	Malta
MX	IMPI - 1066581	Mexico
NO	NIPO - 244581	Norway
PL	PPO - 368789	Poland
PT	INPIPT - 365173	Portugal
RO	OSIM - 180336	Romania
RU	ROSPATENT - 487760	Russian Federation
SE	PRV - 428353	Sweden
SI	SIPO - 44225	Slovenia
SK	SKIPO - 107885	Slovakia
TN	INNORPI - 69220	Tunisia
TR	TPI - 1168471	Turkey
US	USPTO - 7363365	United States
EM	OHIM - 1185884	OHIM
WO	WIPO - 459492	WIPO

# TMview: quick search and advanced search functions

The screenshot displays the TMview search interface. At the top left is the TMview logo. The top navigation bar includes links for Home, About, News, Contact, Help, FAQ, Tutorials, and Enquiries, along with a language selector set to English (en) and buttons for Log in and Register. A prominent 'Quick Search' button is highlighted with a dark box and an arrow pointing to the search input field. The search input contains 'tm:conc' and a 'Search' button. Below the search bar are two 'Close advanced search' buttons. The main search area is divided into several sections: 'Trade mark offices' (dropdown: - All -), 'Trade mark name' (input: conc, with a 'Suggestions' dropdown showing CONCERTO, CONCORDE, CONCERT, CONCYTON, CONCORD, and CONCHIGLIA), 'Trade mark reference number', 'Trade mark type', 'Trade mark status' (dropdown: - All -), 'Applicant name' (input field with a 'Fuzzy search' checkbox and examples like JOHN\*), 'Nice class' (input field with examples like 12.13; 12.15; 1,14,20 etc.), 'Vienna code' (input field with examples like 01.03.06, 01.03.\*), 'Opposition' (checkbox for 'Show only trade marks currently opposable'), 'Application date' (From and To date pickers), 'Sort results by' (dropdown: Trade mark name), and 'Order results' (dropdown: Ascending). A 'Clear' button is located at the bottom right of the search area. On the left side, there are buttons for 'Share with a friend' and 'Add TMview to my favourites', and a large 'Advanced Search' button. On the right side, there is a 'Tip of the day' box with instructions on how to use the search results.

# TMview: search results

- List of search results
  - add other preferences
- Link to report sheet with all basic facts
- Tab navigation system
- Create alert system
  - receive updates for certain trade marks

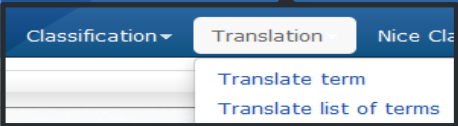
# TMclass

- 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.

# TMclass: features



Two drop-down menus



Search term

Language  
English (en)

Search term  
Search term (E.g. Milk)

Nice Class  
1-45

Harmonised offices  
 BOIP  CD IPDR  IE IPO  OHIM  
 UKIPO

Offices  
 CIPO - OPIC  OAPI  
 USPTO  WIPO

Search  
Browse terms

Advanced criteria

Direct access to basic search

## Welcome to TMclass

TMclass helps you to search for and classify Goods and Services (terms) needed to apply for trade mark protection. You can also translate a list of Goods and Services and verify if those terms appear in the classification databases of the Participating Offices highlighted below.

### Links to trade mark offices

Direct link to all participating offices – not only in EU!



#### Harmonised offices

- OHIM
- OPA
- BPO
- BOIP
- DRCOR
- IPO CZ
- DPMA
- DKPTO
- EPA
- OEPM
- AT
- BG
- BX
- CY
- CZ
- DE
- DK
- EE
- ES
- FI
- FR
- GB
- GR
- HR
- HU
- IE IPO
- IT
- LT
- LRPV
- CD IPDR
- PPO
- INPI PT
- OSIM
- PRV
- SIPO
- SKIPO
- LV
- MT
- PL
- PT
- RO
- SE
- SI
- SK

#### Other offices

- WIPO
- IMPI
- IPI
- SAIC
- CIPO - OPIC
- IPO
- MX
- CH
- CN
- CA
- IS
- JPO
- KIPO
- IPOM
- OMPIC
- NIPO
- JP
- KR
- ME
- MA
- NO
- ROSPATENT
- OAPI
- TPI
- USPTO
- RU
- CM
- TR
- US

Participating Offices supplying data to TMclass

News

02/02/2015  
**France now part of the Harmonised Database**

22/01/2015  
**HARMONISED DATABASE UPDATED WITH THE NICE 10.15**

15/01/2015  
**Integration of OAPI (Organisation Africaine de la Propriété Intellectuelle / The African Intellectual Property Organization)**

Read all news...

Tutorials

Classification: Goods  
Class 1: Compositions for use in food and beverages; Detergents for use in manufacture and industry; Ferments for chemical purposes

View TMclass tutorials

Other links

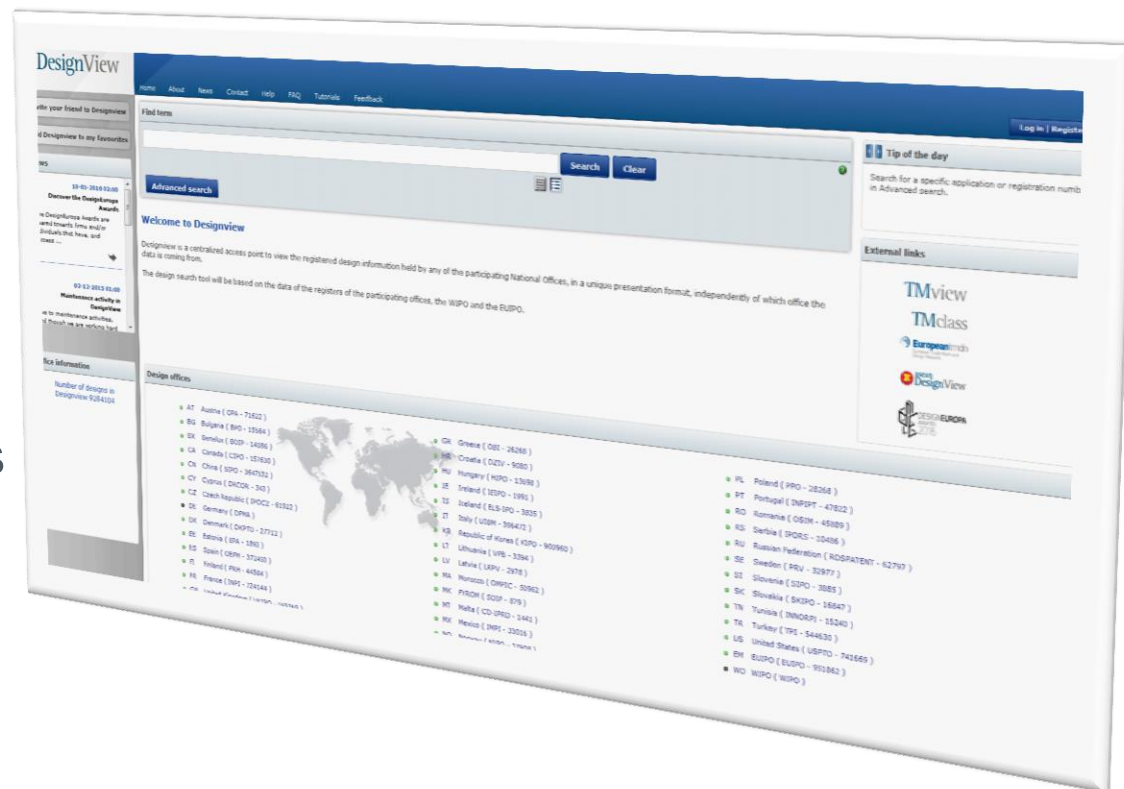
# TMclass: main functions

- Search term
- Verify list of terms
- Translate term
- Translate list of terms



# Searching using Designview

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



# Designview search formats: “List” mode and “Gallery” mode

The image illustrates the DesignView search interface in two modes: 'List' mode and 'Gallery' mode. A magnifying glass highlights the view toggle icons in the search bar.

**List Mode:** The search results are displayed in a table format. The table has columns for 'Design', 'Indication of the product', and 'Design number'. The search term 'sport shoes' is entered in the search bar.

Design	Indication of the product	Design number	
	Shoes	000568464-0001	THOMSEN
	Sports shoes	000099742-0010	ASICS COF
		000099742-0005	ASICS COF
		000099742-0001	ASICS COF
	Sports shoes	000016688-0005	LUKAS MEI

**Gallery Mode:** The search results are displayed in a grid format. The search term 'sport shoes' is entered in the search bar. The gallery shows a grid of shoe thumbnails. The page number is 10 of 4.

# eSearch Plus

- Integrated tool to search all EUIPO resources
  - Community trade marks
  - registered Community designs
  - owners
  - representatives
  - publications
  - related case law

 <https://euipo.europa.eu/eSearch/>



# eSearch Plus: advanced search

The screenshot displays the EUIPO eSearch Plus advanced search interface. At the top left is the EUIPO logo (European Union Intellectual Property Office) with the tagline "Protect your intellectual property in the European Union". A search bar is located at the top right. Below the logo, a navigation menu includes "Home", "Trade marks", "Designs", "Law & practice", and "Learning". The main search area features a search bar with a "Search" button and a link to "Advanced search". Below the search bar, there are tabs for "Trade marks", "Designs", "Owners", "Representatives", and "Daily publication".

On the left side, there is a section titled "Add search criteria from below" with three categories:

- Trade mark information**: Trade mark representation, Trade mark number, Trade mark name, Trade mark type, Trade mark basis, Trade mark description, Reference, Recordal number, Trade mark status (EUTM), Trade mark status (IR), Acquired distinctiveness, Nature of the mark.
- Trade mark classification**: Vienna Classification, Nice Classification, Goods and services, Publication section.
- Dates**: Filing date.

The main search area is titled "Search criteria" and includes a "Sort results by" dropdown menu set to "Trade mark number". Below this, there are two search criteria:

- Trade mark number: contains [input field]
- Trade mark name: contains [input field]

The criteria are connected by an "and" dropdown menu. At the bottom of the search area, there are buttons for "Clear criteria", "Reset to default", and "Search".

Two callout boxes are present: "Additional criteria" points to the "Add search criteria from below" section, and "Filters" points to the search criteria input fields.

# The EUTM Register

- Different from public databases
- To keep track of EUTM applications and registered EUTMs
- Entries:
  - about EUTM(A) itself
  - recordals
- Easily searched through the eSearch bulletin system from the EUIPO website

# Extract from the eSearch bulletin System

eSearch plus  
The EUIPO's database  
access

Trade marks | Designs | Owners | Representatives | **Daily publication**

Search [ ] Advanced search

**Bulletins download**

Type: EUTM

Year: 2016

Number: 2016/099 - 31/05/2016

Language: English

**Download bulletin** | Download index

Useful links  
▶ When a notification cannot be delivered, the EUIPO publishes a notice.

standards ST.60 and ST.80  
trade marks and designs).  
tion regarding Bulletins and the  
m  
lietuvių kalba (lt)  
magyar (hu)  
Malti (mt)  
polski (pl)  
română (ro)  
slovenščina (sl)  
slovenčina (sk)

2016\_099\_EN.pdf - Adobe Reader

ISS MICH!  
THE GOOD FOOD COMPANY

EPI

Community Designs Vademecum

English (en)  
Español (es)  
Deutsch (de)  
italiano (it)  
français (fr)  
dansk (da)  
Nederlands (nl)  
português (pt)

B.4	450	31/05/2016
C.1		
C.1.1		
C.1.2		
C.1.3		
C.2	111	005073473 005073523 005073531 005075321
C.3	732	Timan Investments Holdings Limited B2 Industry Street QRM 3000 Qormi MT
C.4		
C.5		
C.6		
C.7		
C.8	580	27/05/2016 - 010826736
C.9		
C.10	450	31/05/2016
D.1		

# The RCD Register

- Registration of Community designs by EUIPO
- Information about:
  - design itself
  - amendments
- Published in eSearch Plus Design Bulletin





# EuroLocarno

The screenshot shows the EuroLocarno website interface. At the top left is the EUIPO logo (European Union Intellectual Property Office) with the tagline "Protect your intellectual property in the European Union". To the right is a search icon. Below the logo is a navigation menu with links for Home, Trade marks, Designs, Law & practice, and Learning. The main content area features the EuroLocarno logo and the text "European RCD Classification". Below this is a search form with two dropdown menus for "Locarno classification" (set to "All classes") and "All subclasses", and a "Search language" dropdown (set to "English"). There is also a text input field for "Indication of product" with a search icon and a "Search" button. Below the search form is a paragraph explaining the search function and a link to the "Eurolocarno list of classes and subclasses" with a "Learn more" link.

**EUIPO**  
EUROPEAN UNION  
INTELLECTUAL PROPERTY OFFICE

Protect your intellectual property in the European Union

Home Trade marks Designs Law & practice Learning

## EuroLocarno

European RCD Classification

Locarno classification: All classes, All subclasses

Search language: English

Indication of product: Search terms... Search

Search for the indication of products and their corresponding classification in the EuroLocarno database, available in all the official EU languages.

[Eurolocarno list of classes and subclasses - Last update 25/09/2014](#)

[Learn more](#)