IP Search Tools

Intellectual Property Teaching Kit

INTRODUCTION

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

Intellectual property and "ideas"

- Intellectual property is the result of "ideas".
- "Ideas" themselves cannot be protected.
- But if you can embody them (by recording, writing down, describing, etc.) they might become protectable.

How can IP be protected?

- Ideas can be protected by a whole range of IPRs.
- The type of IPR will be different depending on the idea.

What rights do you get from your IPRs?

- Exclusionary rights
- The right to prevent others from using your intellectual property

The publication deal

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

Why is there a requirement for publication?

- Reasons why IPRs are published:
  - Warning
  - Fairness
  - Public duty

Why search?

- To find out what others are doing
- New "ideas"
- Freedom to operate
- Enforcement

Last but not least .....

- Because it's there!

ESPACENET

Espacenet: the original idea

- European/worldwide patent information on the internet
- Showcase for all participating national patent offices
- Own-language interface
- For intelligent non-experts
- User-friendly
- Raises awareness
- Does not replace professional services

Who are the potential users?

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

The structure of patent documents

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- Search report

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(11) **EP 1 000 000 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
17.05.2000 Bulletin 2000/20

(51) Int. Cl.[7]: **B28B 5/02**, B28B 7/00, B28B 1/29

(21) Application number: **99203729.1**

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

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **12.11.1998 NL 1010536**

(71) Applicant: **Beheermaatschappij De Boer Nijmegen B.V.**
6541 BS Nijmegen (NL)

(72) Inventor: **Kosman, Wilhelmus Jacobus Maria**
6562 DA Groesbeek (NL)

(74) Representative:
Schumann, Bernard Herman Johan et al
Arnold & Siedsma,
Advocaten en Octrooigemachtigden,
Sweelinckplein 1
2517 GK Den Haag (NL)

(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.

FIG 2

EP 1 000 000 A1

The front page

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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
	- cooperative: B28B1/29; B28B5/022; B28B7/0064; H02P6/08 → more
Application number:	EP 19990203729 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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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.

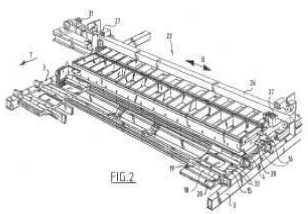
FIG.2

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EP 1 000 000 A1

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(11) **EP 1 000 000 A1**

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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.

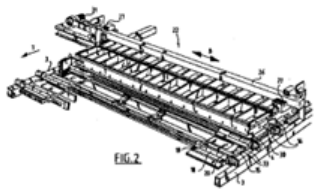
FIG.2

The description

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

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Apparatus for manufacturing green bricks for the brick manufacturing industry

Description of EP1000000 (A1)

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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;

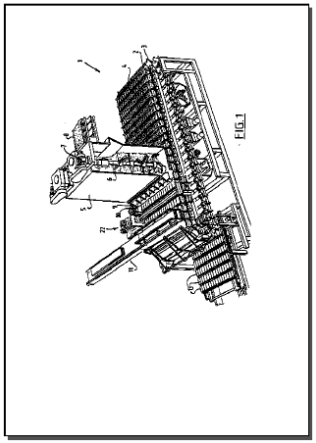
figure 5 is a perspective view of a second preferred embodiment of a mould container part; and

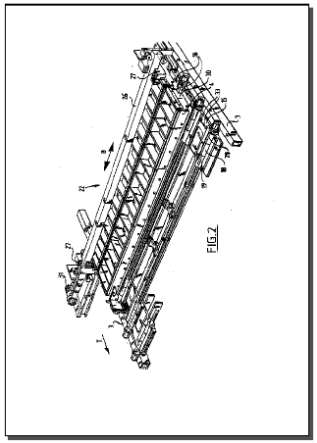
figure 6 shows schematically a part of a wall which has been built using bricks provided with an edge and fired from the green bricks manufactured using the apparatus according to the invention.

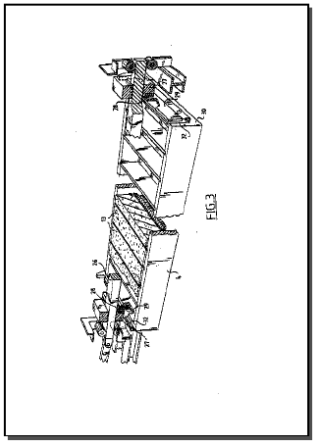
[0012] Like components are provided in the figures with like reference numerals.

[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

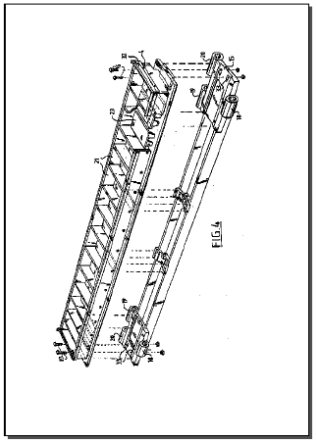
The drawings

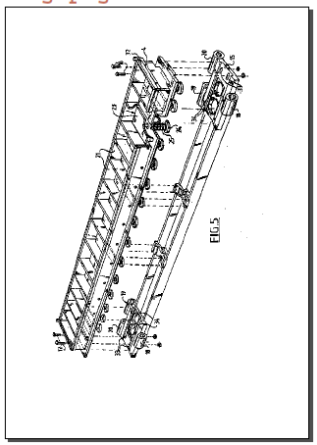


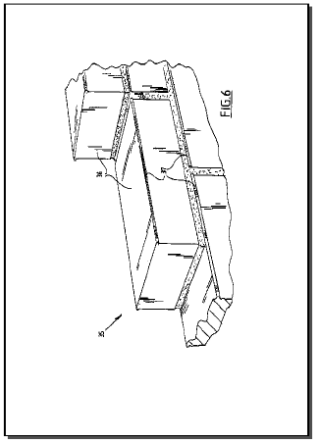


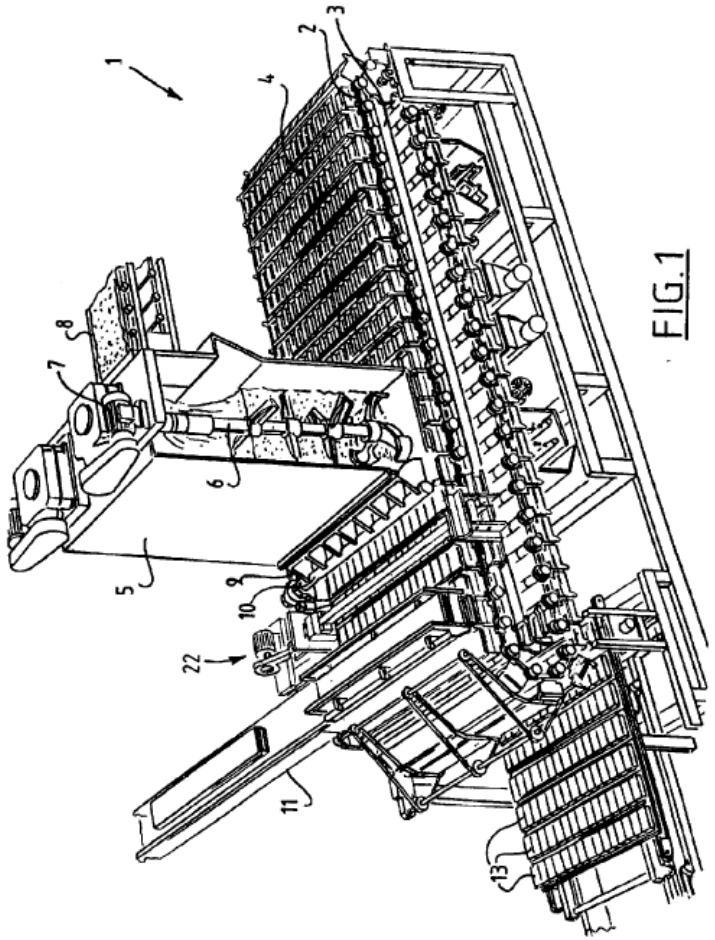


Drawing pages of EP1000000 A1

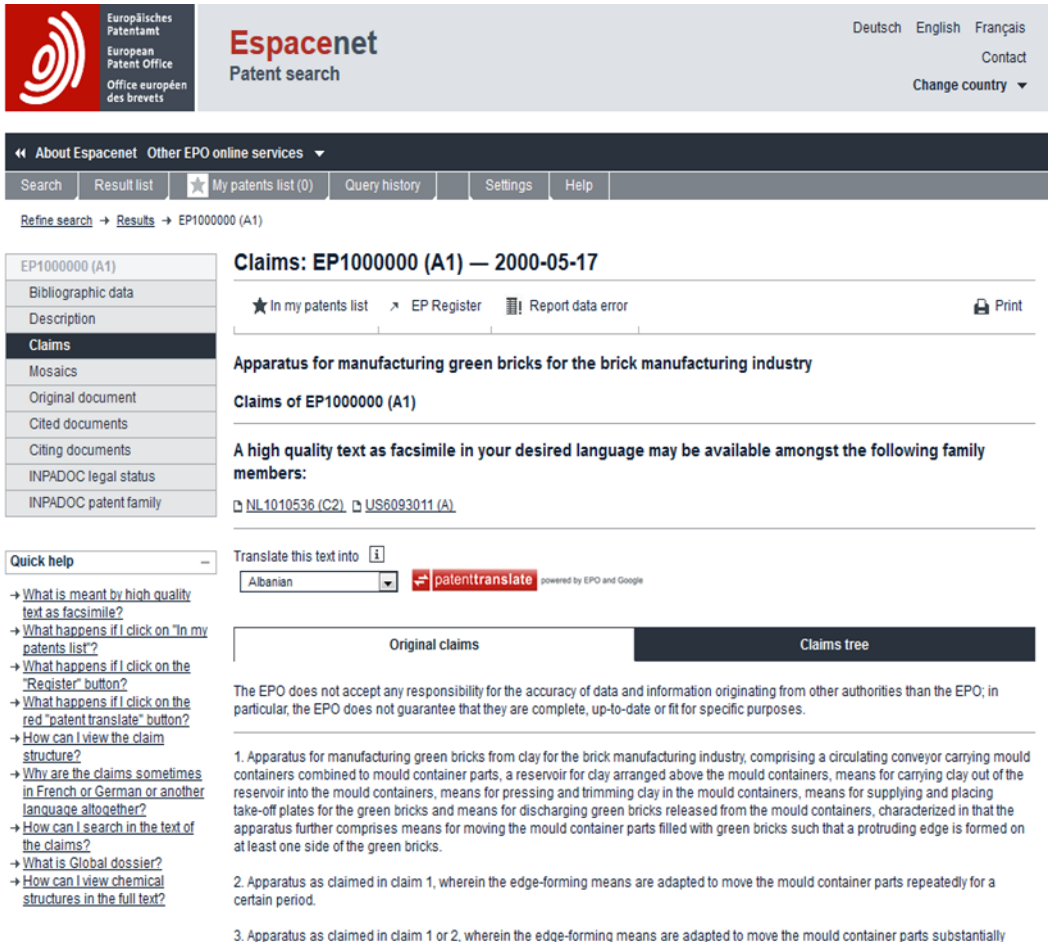








The claims



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Claims: EP1000000 (A1) — 2000-05-17

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Apparatus for manufacturing green bricks for the brick manufacturing industry

Claims of EP1000000 (A1)

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NL1010536 (C2) US6093011 (A)

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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.

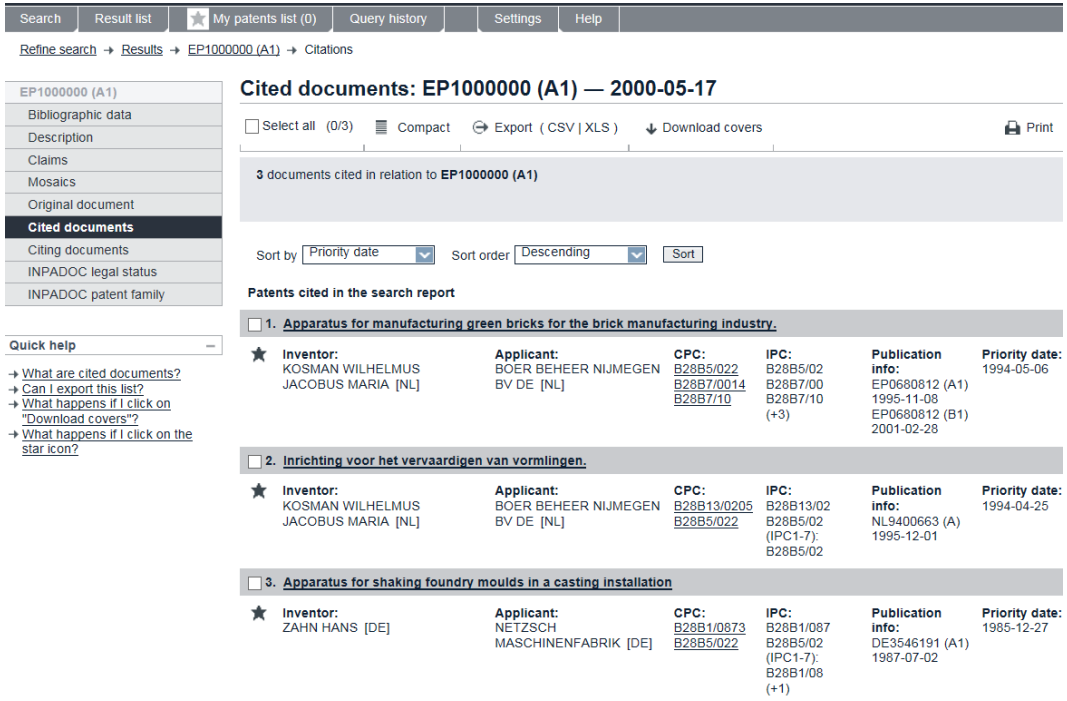
8. Apparatus as claimed in claim 4, 5, 6 or 7, wherein the edge-forming means comprise an eccentric drive for the frame.

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.

The search report



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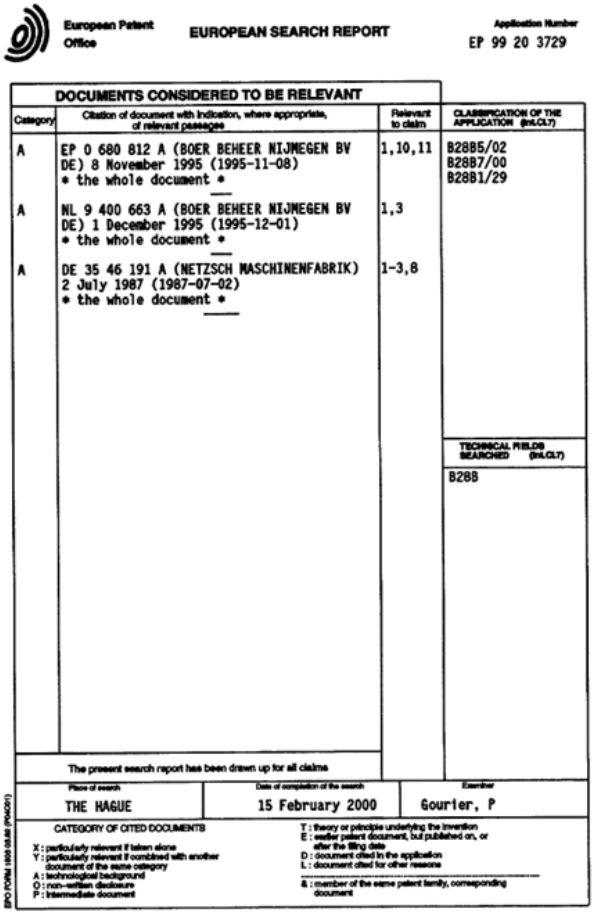

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Technology-specific: biochemistry

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:	US 20070296536 20070410
Priority number(s):	US20070296536 20070410 , AU20060901847 20060410 , US20060790536P 20060410 , WO2007IB00923 20070410
Also published as:	WO2007116298 (A2) WO2007116298 (A3) EP2007903 (A2) AU2007235649 (A1)

Abstract of US2010136531 (A1)

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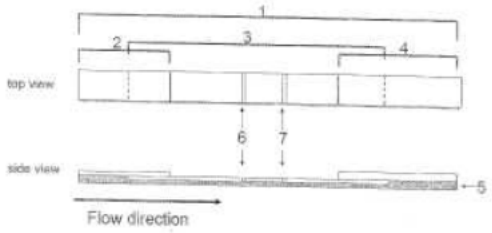
Methods and kits for use in detecting a target nucleic acid in a sample are disclosed. In one particular application, the methods and kits allow for the detection of an undesirable micro-organism (e.g. Listeria, Salmonella or Enterobacteriaceae) in food or present on a food preparation surface.



Technology-specific: civil engineering

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

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Super-long span suspension bridge

Page bookmark	CN1152058 (A) - Super-long span suspension bridge
Inventor(s):	TADAKI KAWATA [JP]; MASAHIRO KOMETA [JP]; SHUNZO NAKASAKI [JP] +
Applicant(s):	KAWADA KOGYO KK [JP] +
Classification:	**- international:** ***E01D1/00; E01D11/00; E01D11/02; E01D2/00;*** (IPC1-7): E01D11/02
	- cooperative: **E01D11/02**
Application number:	CN1996122429 19961015
Priority number(s):	JP19950291691 19951016
Also published as:	EP0768428 (A1) EP0768428 (B1) JPH09111716 (A) US5784739 (A) ES2124056 (T3)

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

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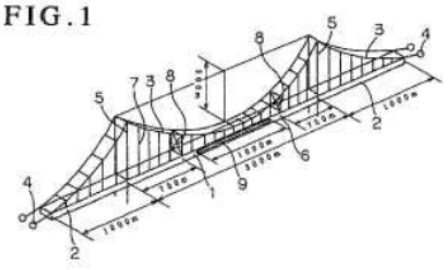
As a countermeasure against storms for long span, particularly super-long span suspension bridges with the center span (1) exceeding 2,000 m, there is provided a super-long span suspension bridge which can be improved of its static and dynamic wind resistance performance by applying a mass to a portion 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



Sitemap Accessibility Legal notice Terms of use Last updated: 08.04.2015 Worldwide Database 5.8.23; 92p

Technology-specific: aerospace

Bibliographic data: US2010192539 (A1) — 2010-08-05

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METHODS OF CONTROLLING THRUST IN A ROCKET MOTOR

Page bookmark	US2010192539 (A1) - METHODS OF CONTROLLING THRUST IN A ROCKET MOTOR
Inventor(s):	COVER CARY LEE [US]; STROUD SEAN SCOTT [US]; PIOVOSO MICHAEL JOSEPH [US]; KELLY TIMOTHY JAMES [US] +
Applicant(s):	COVER CARY LEE, ; STROUD SEAN SCOTT, ; PIOVOSO MICHAEL JOSEPH, ; KELLY TIMOTHY JAMES, ; ALLIANT TECHSYSTEMS INC
Classification:	**- international:** ***F02K9/80; F03H99/00***
	- cooperative: **F02K9/08**; **F02K9/80**; F05D2200/11
Application number:	US20100760069 20100414
Priority number(s):	US20100760069 20100414 ; US20060366252 20060302
Also published as:	US8539751 (B2) US2007204593 (A1) US2007204593 (A1) US7716912 (B2) US7716912 (B2) → more

Abstract of US2010192539 (A1)

Translate this text into

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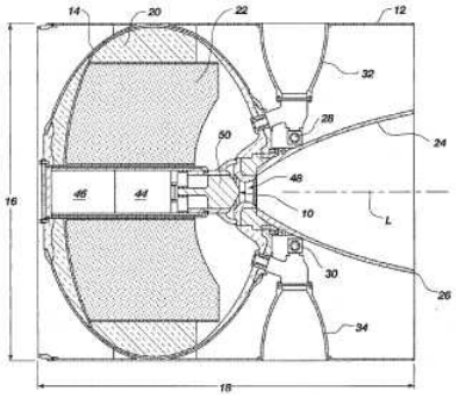
A propulsion thrust control system and method for controlling thrust in a rocket motor includes configuring valves of an energized rocket motor to an initial total valve area according to a total thrust command. The total thrust command is converted into a commanded propellant mass flow discharge rate. A varying total valve area is computed from an error between the commanded propellant mass flow discharge rate and a calculated propellant mass flow discharge rate. The valves are reconfigured according to a distribution of the varying total valve area. The propulsion system includes a pressure vessel with valves and a controller for regulating the valve area according to a propellant mass flow discharge rate from the pressure vessel.



Technology-specific: transport

Bibliographic data: GB2085383 (A) — 1982-04-28

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A railway vehicle having a tiltable body

Page bookmark	GB2085383 (A) - A railway vehicle having a tiltable body
Inventor(s):	
Applicant(s):	AUTOMATISK DOSERINGS KOMPENSAT +
Classification:	**- international:** ***B60G21/00; B61D13/00; B61F3/04; B61F3/16; B61F5/02; B61F5/22; B61F5/24; B61F5/38; B61H7/04;*** (IPC1-7): B61F5/02
	- cooperative: **B60G21/00**; **B61D13/00**; **B61F3/04**; **B61F3/16**; **B61F5/02**; **B61F5/22**; **B61F5/24**; **B61F5/38**; **B61F5/386**; **B61H7/04**; B60G2200/13; B60G2200/132; B60G2202/114; B60G2204/121; B60G2204/41; B60G2204/80; B60G2204/83; B60G2204/8302; B60G2800/01
Application number:	GB19810015993 19810526
Priority number(s):	SE19800006575 19800919 ; US19740519665 19741031
Also published as:	GB2085383 (B) US3974779 (A)

Abstract of GB2085383 (A)

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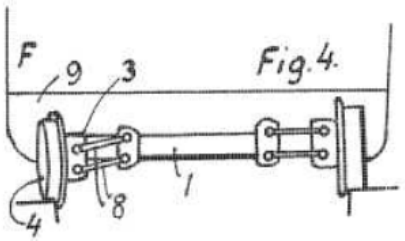
The vehicle body (F), is tilted in a curve by raising its side (9) facing away from the centre of curvature while the side of the body facing towards the centre of curvature remains substantially unaffected and at a predetermined level. The vehicle can thereby be provided with small wheels (4) and the constructional height of the body be reduced. The tilting, which is performed by hydraulic cylinders, may be in conjunction with radial displacement of the wheel axles. The vehicle, which may be an articulated street vehicle, may be propelled by wheel-associated hydraulic motors.



Technology-specific: ICT

Bibliographic data: EP2387215 (A1) — 2011-11-16

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Incoming telephone call management for a portable multifunction device

Page bookmark	EP2387215 (A1) - Incoming telephone call management for a portable multifunction device
Inventor(s):	COFFMAN PATRICK [US]; LEMAY STEPHEN O [US]; JOBS STEVEN P [US]; FORSTALL SCOTT [US]; CHRISTIE GREG [US]; NOVICK GREGORY [US]; VAN OS MARCEL [US]; CHAUDHRI IMRAN [US] +
Applicant(s):	APPLE INC [US] +
Classification:	**- international:** ***G06F3/048; H04M1/2745; H04M1/57; H04M1/725***
	- cooperative: **G06F3/04817**; **G06F3/0488**; **H04M1/27455**; **H04M1/576**; **H04M1/72522**; **H04M1/72547**; **H04M1/72552**; **H04M1/7258**; **H04M1/72583**; H04M1/6008; H04M1/6041; H04M1/663; H04M1/72558; H04M2250/12; H04M2250/22; H04M2250/60
Application number:	EP20110176480 20070831
Priority number(s):	EP20070841759 20070831 ; US20070769695 20070627 ; US20070883783P 20070106 ; US20070879469P 20070108 ; US20070879253P 20070107 ; US20060824769P 20060906
Also published as:	US2008055263 (A1) WO2008030778 (A1) EP2060096 (A1) DE212007000039 (U1) DE112007001109 (T5) → more

Abstract of EP2387215 (A1)

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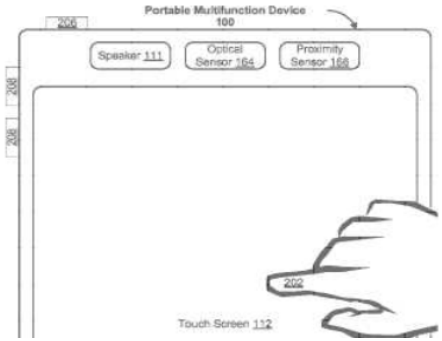
At a portable electronic device (100) with a touch screen display (112), a list of items (2800B) comprising missed telephone calls is displayed (5002). Upon detecting (5014) user selection of an item (2803) in the list (2800B), contact information (2800C) is displayed (5016) for a respective caller corresponding to the user selected item (2803). The displayed contact information (2800C) includes a plurality of contact objects that include a first contact object (2816), comprising a telephone numer object having a first telephone number associated with the missed telephone call, and a second contact object (2818,2820,2822). Upon detecting (5018) user selection of the second contact object (2818,2820,2822), a communication with the respective caller is initiated via a modality corresponding to the second contact object (2818,2820,2822).



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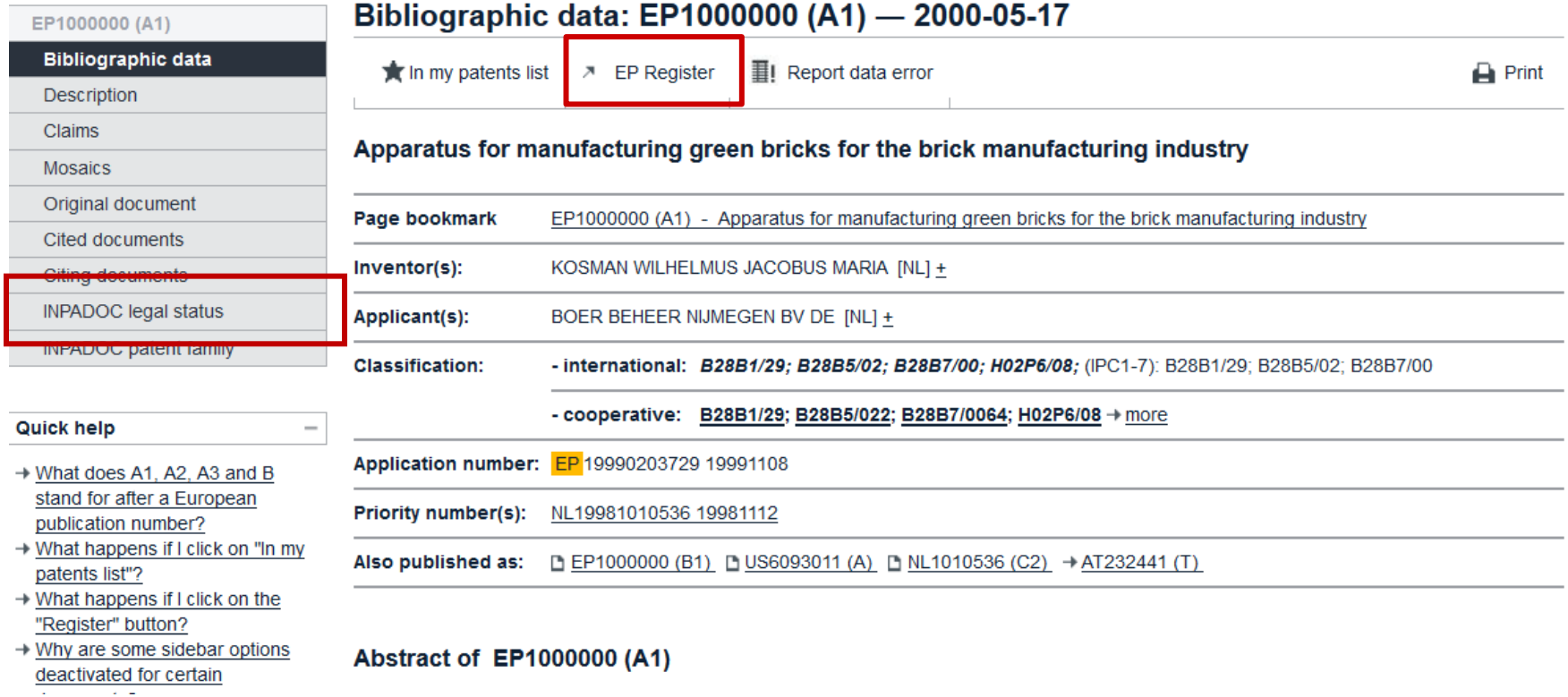

Legal status: validity

Refine search → Results → EP1000000 (A1)

- EP1000000 (A1)
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- INPADOC patent family

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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
	DESIGNATED COUNTR. :	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
	FURTHER INFORMATION :	AL;LT;LV;MK;RO;SI

Legal status: procedural

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EP1000000

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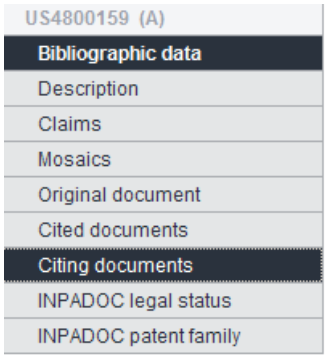
EP1000000 - Apparatus for manufacturing green bricks for the brick manufacturing industry [Right-click to bookmark this link]

Status	No opposition filed within time limit *Database last updated on 06.02.2012*	
Most recent event	02.12.2011	New entry: Observations by third parties
Applicant(s)	For all designated states Beheermaatschappij De Boer Nijmegen B.V. Koopvaardijweg 2 6541 BS Nijmegen / NL	
	[2000/20]	
Inventor(s)	01 / Kosman, Wilhelmus Jacobus Maria Bredeweg 9 6562 DA Groesbeek / NL	
	[2000/20]	
Representative(s)	't Jong, Bastiaan Jacobus , et al Arnold & Siedsma Sweelinckplein 1 2517 GK The Hague / NL	
	[2008/34]	
Application number, filing date	99203729.1	08.11.1999
	[2000/20]	
Priority number, date	NL19981010536	12.11.1998 Original published format: NL 1010536
	[2000/20]	
Filing language	NL	
Procedural language	EN	
Publication	**Type :**	A1 Application with search report
	No. :	EP1000000

Commercial relevance: technological impact (I)



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] +
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)

Translate this text into

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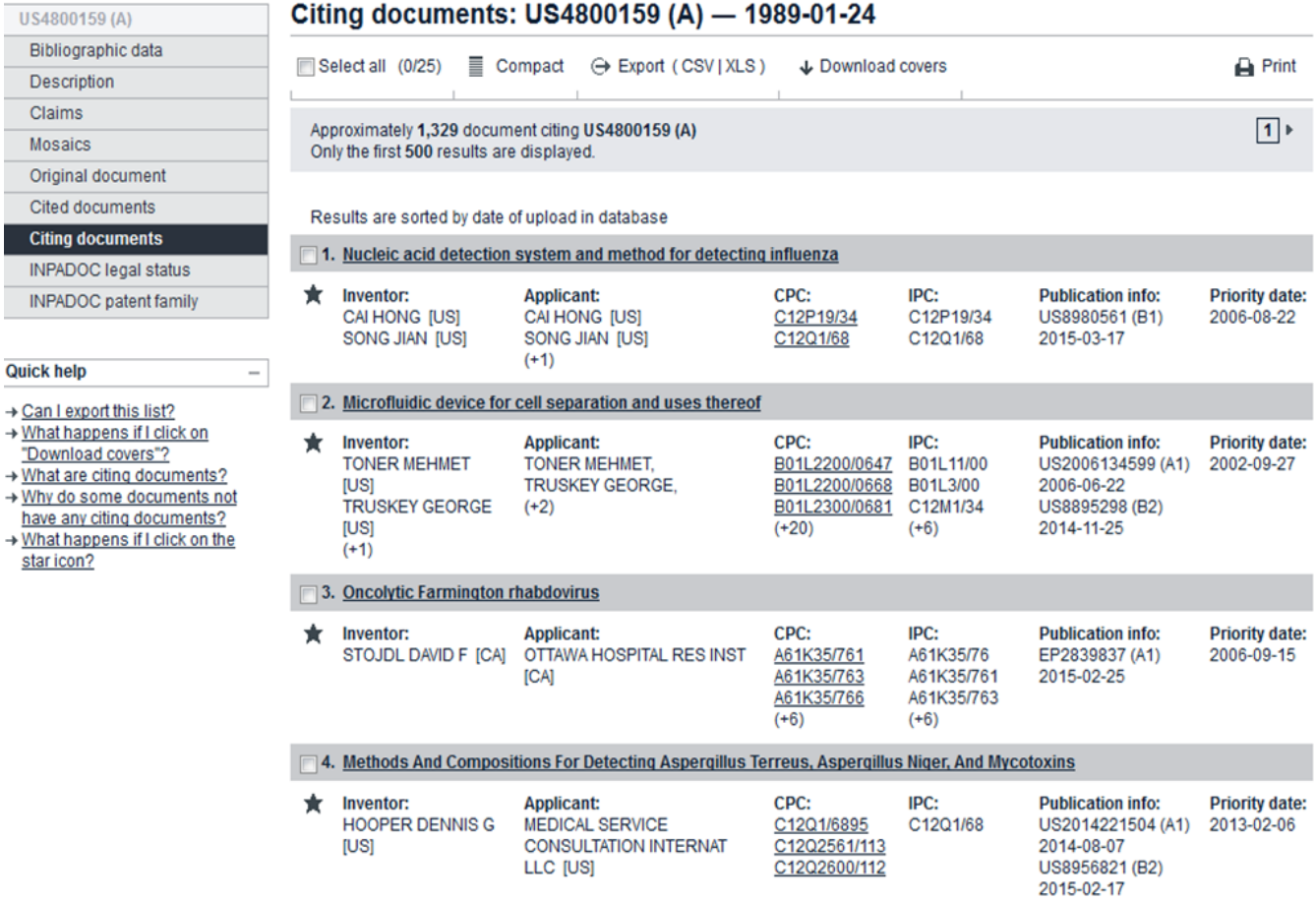
The present invention is directed to a process for amplifying and detecting any target nucleic acid sequence contained in a nucleic acid or mixture thereof. The process comprises treating separate complementary strands of the nucleic acid with a molar excess of two oligonucleotide primers, extending 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
- Original document
- Cited documents
- **Citing documents**
- INPADOC legal status
- INPADOC patent family

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- Why do some documents not have any citing documents?
- What happens if I click on the star icon?

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

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Approximately **1,329** document citing **US4800159 (A)**
Only the first **500** results are displayed.

Results are sorted by date of upload in database

	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
1. Nucleic acid detection system and method for detecting influenza	CAI HONG [US] SONG JIAN [US]	CAI HONG [US] SONG JIAN [US] (+1)	C12P19/34 C12Q1/68	C12P19/34 C12Q1/68	US8980561 (B1) 2015-03-17	2006-08-22
2. Microfluidic device for cell separation and uses thereof	TONER MEHMET [US] TRUSKEY GEORGE [US] (+1)	TONER MEHMET, TRUSKEY GEORGE, (+2)	B01L2200/0647 B01L2200/0668 B01L2300/0681 (+20)	B01L11/00 B01L3/00 C12M1/34 (+6)	US2006134599 (A1) 2006-06-22 US8895298 (B2) 2014-11-25	2002-09-27
3. Oncolytic Farmington rhabdovirus	STOJDL DAVID F [CA]	OTTAWA HOSPITAL RES INST [CA]	A61K35/761 A61K35/763 A61K35/766 (+6)	A61K35/76 A61K35/761 A61K35/763 (+6)	EP2839837 (A1) 2015-02-25	2006-09-15
4. Methods And Compositions For Detecting Aspergillus Terreus, Aspergillus Niger, And Mycotoxins	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

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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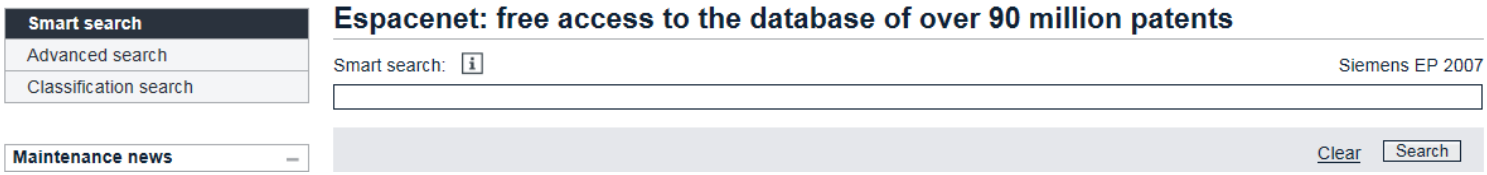

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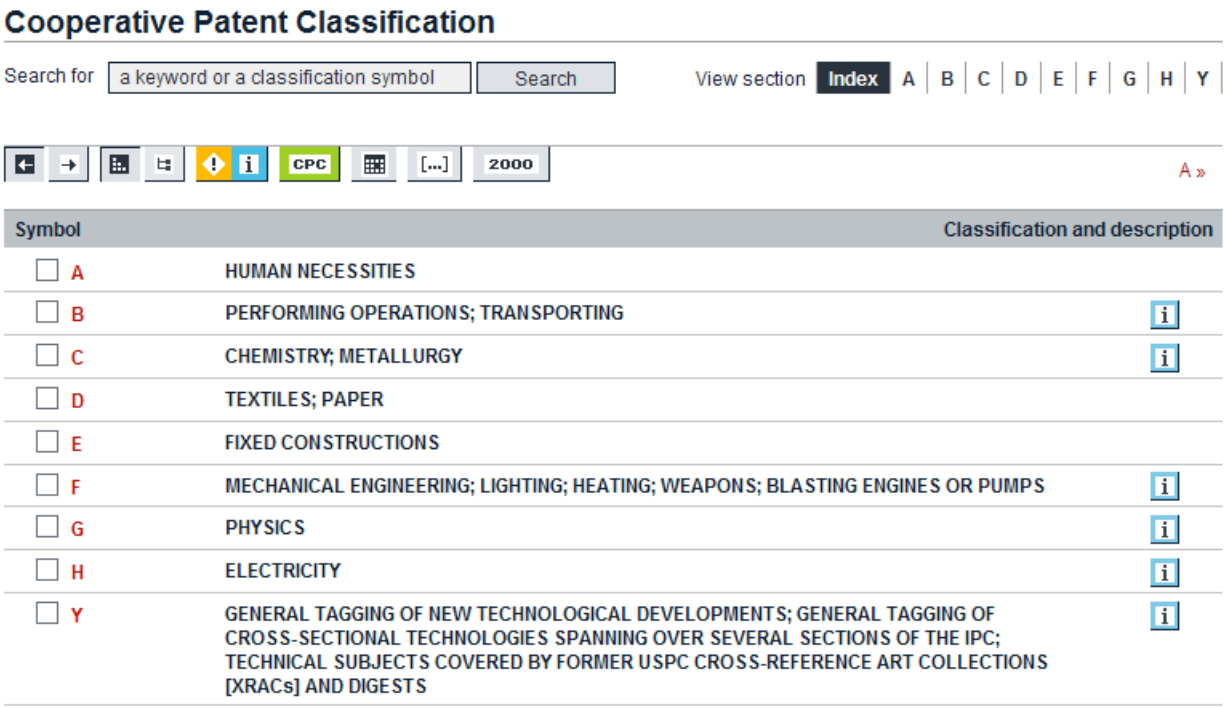
CPC classification search



Keywords or classes

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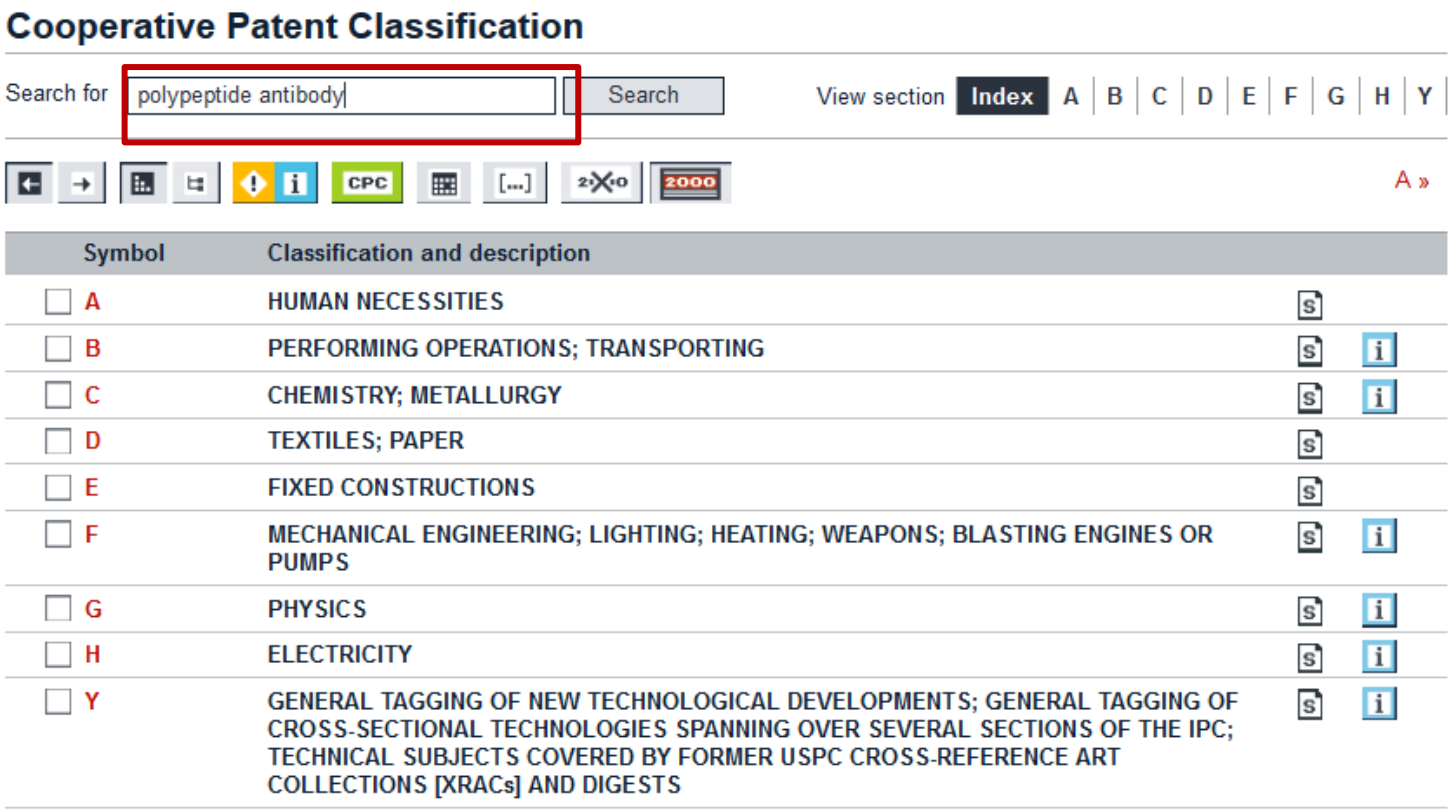

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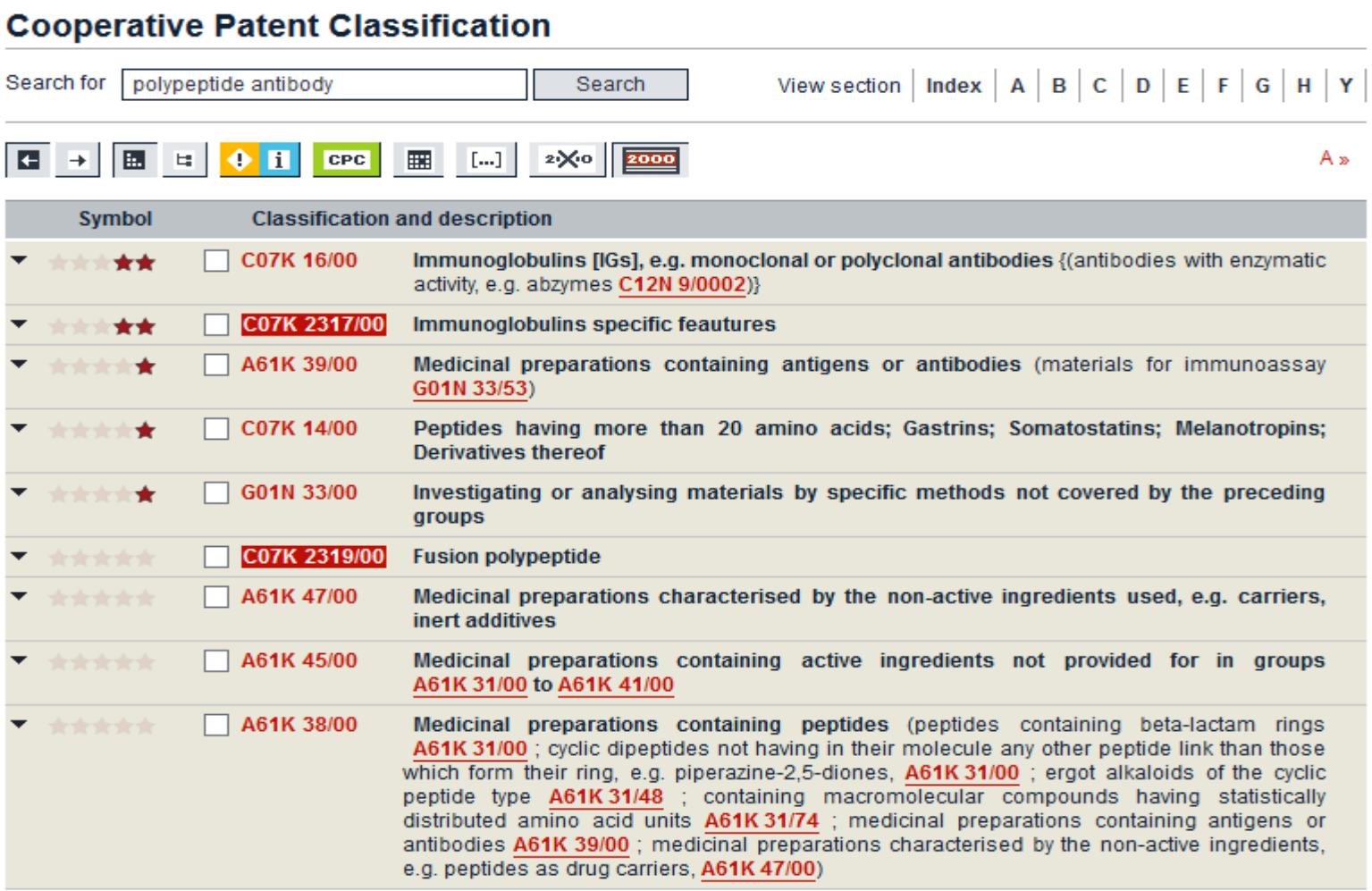


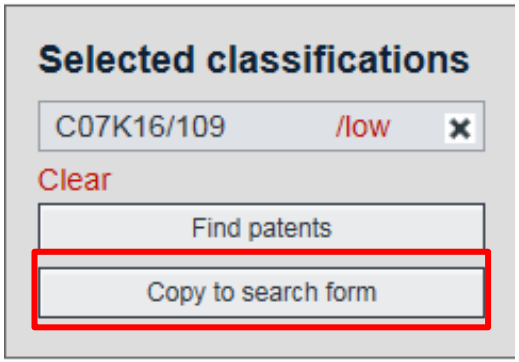
Cooperative Patent Classification

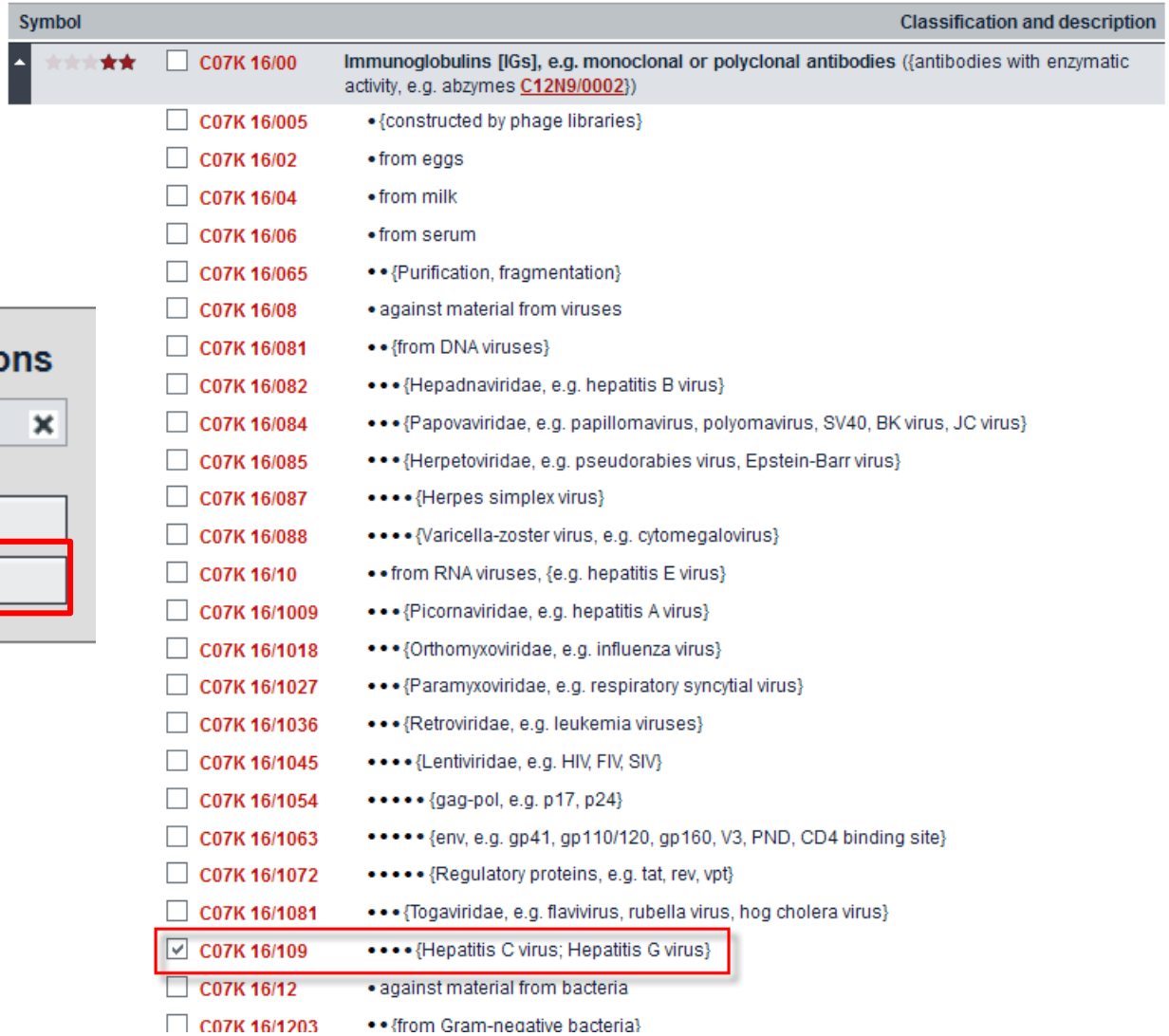
Search for: polypeptide antibody — Search

View section | Index | A | B | C | D | E | F | G | H | Y

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

CPC classification search: use classification in search





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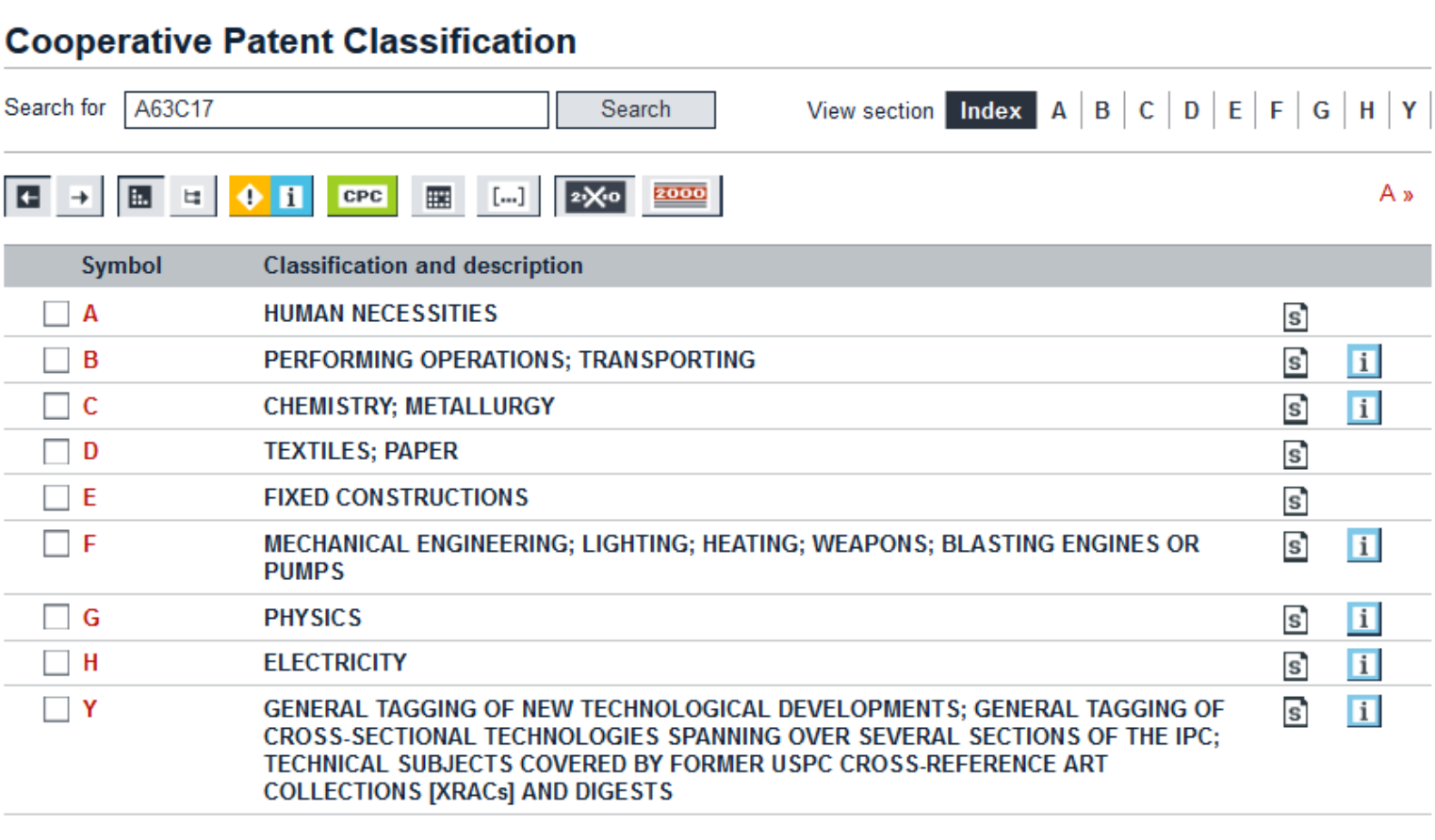

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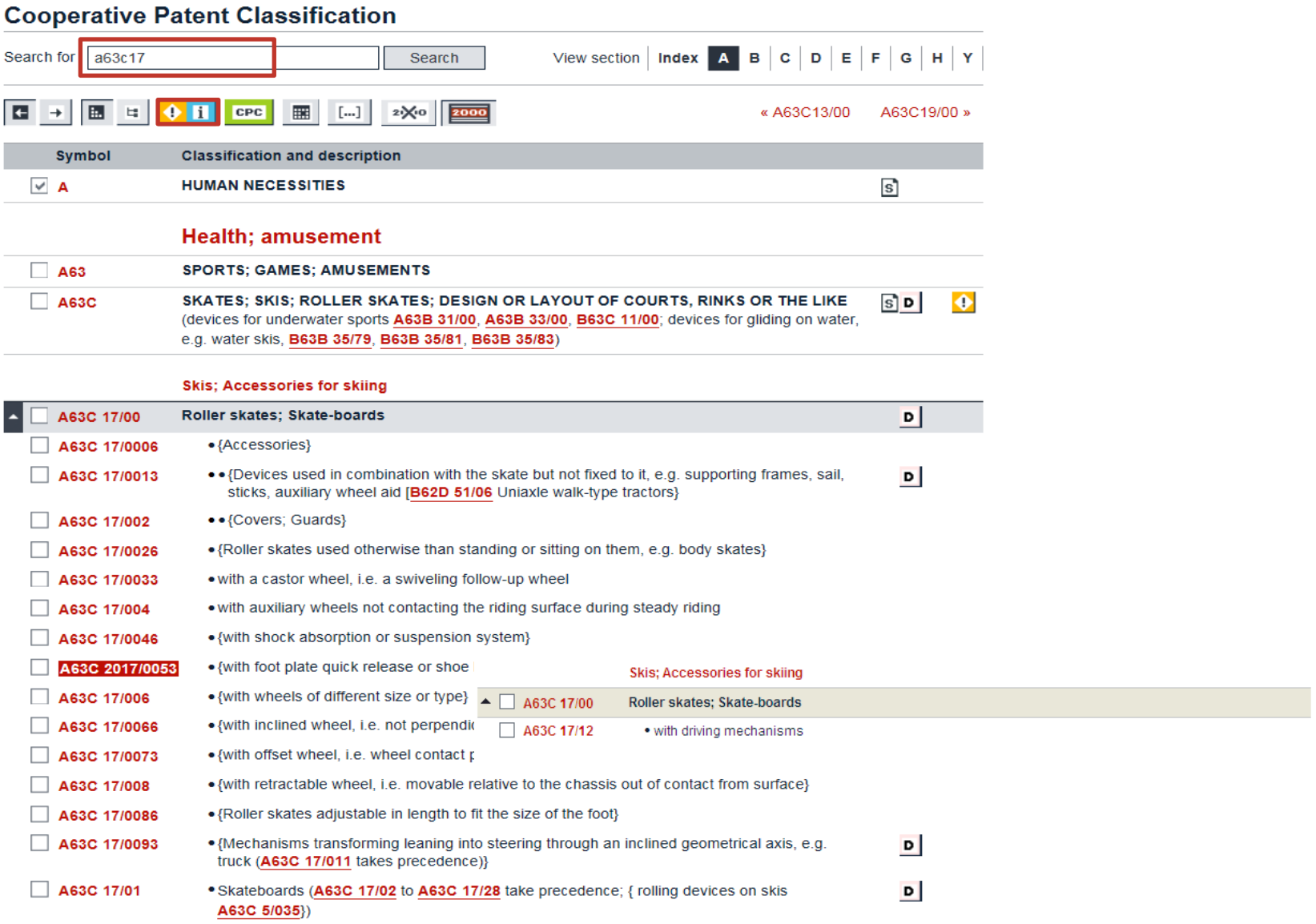

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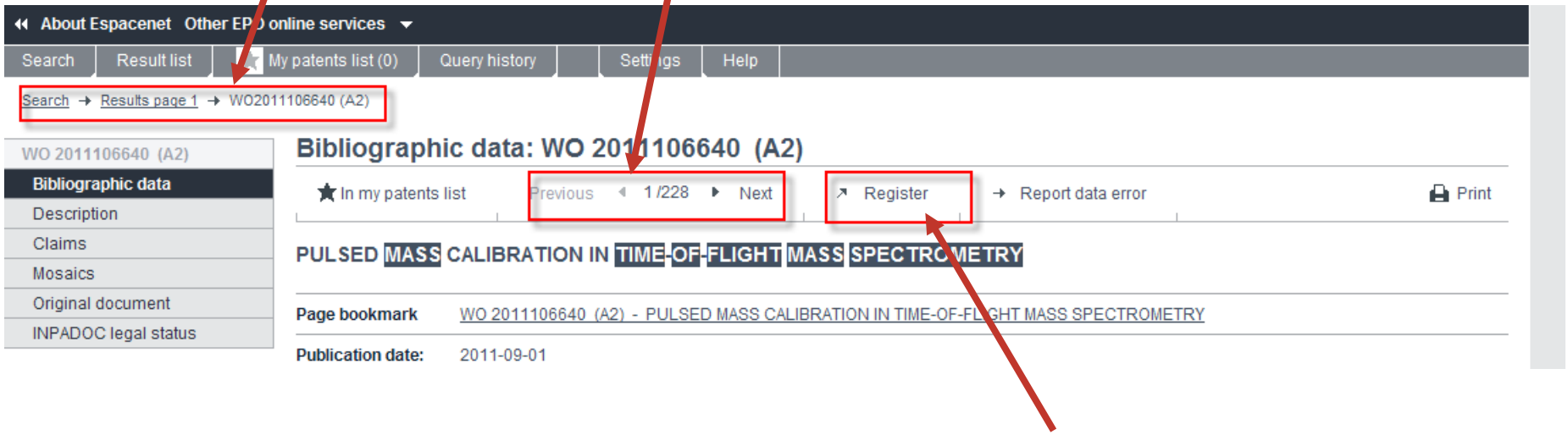

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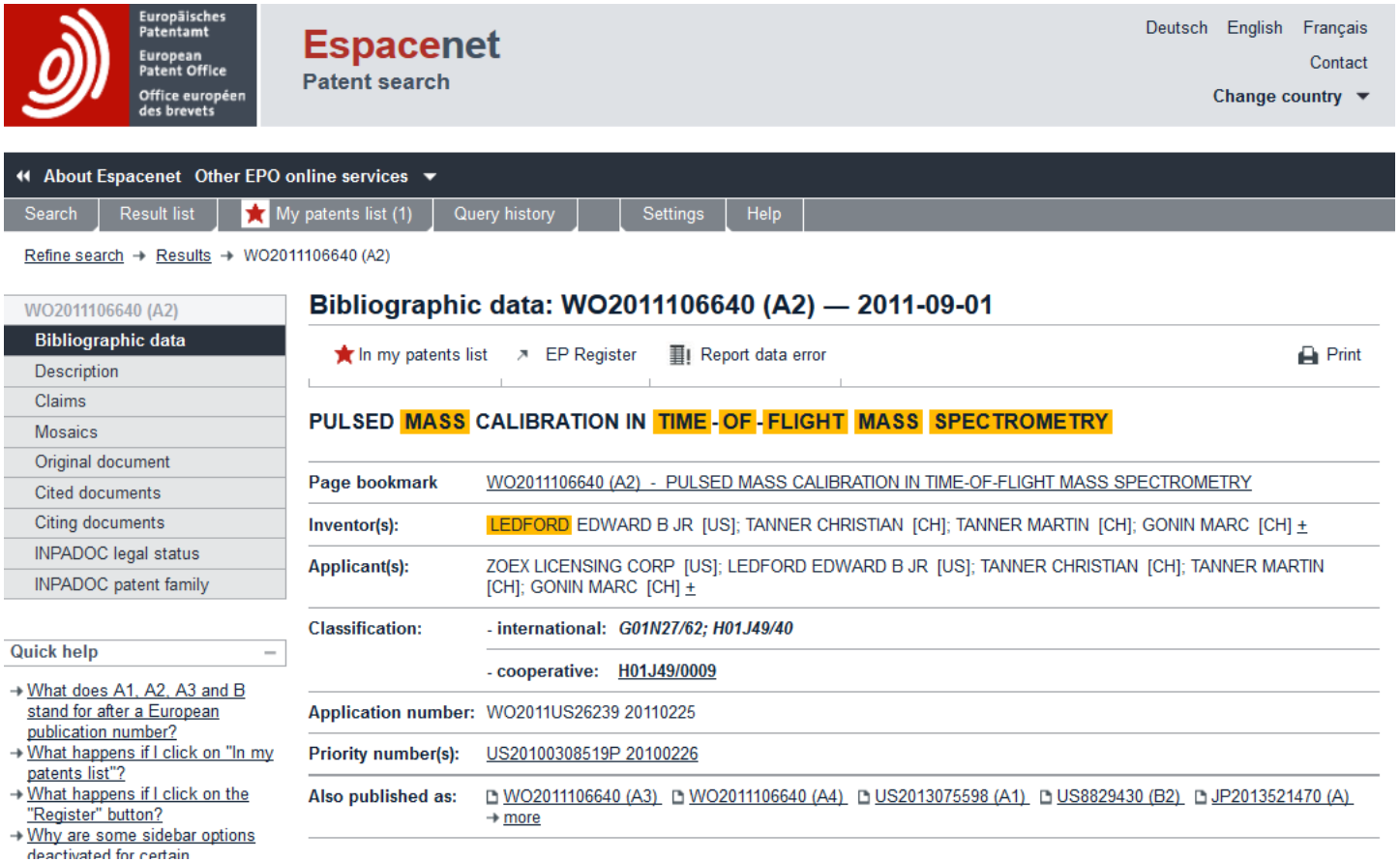

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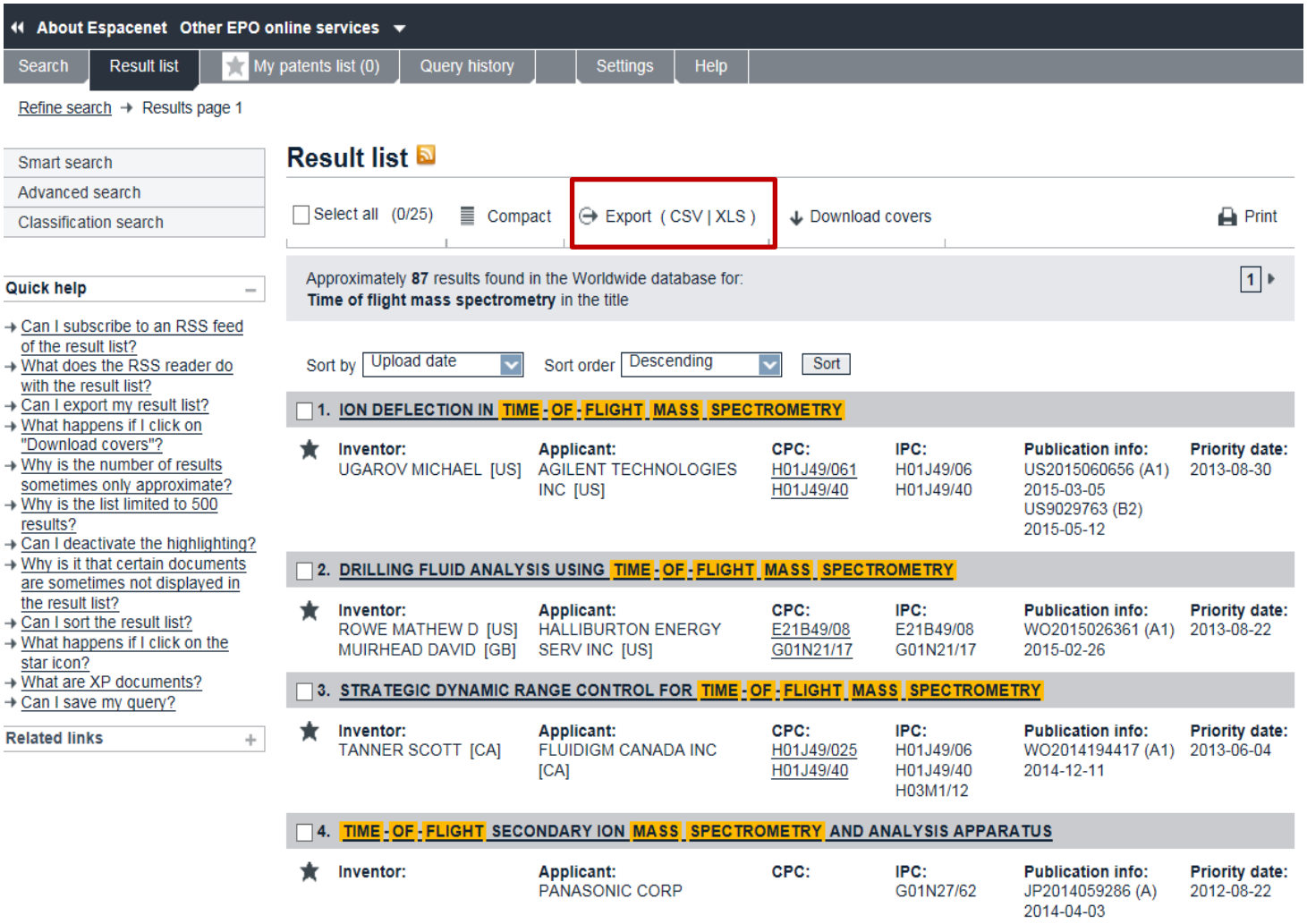

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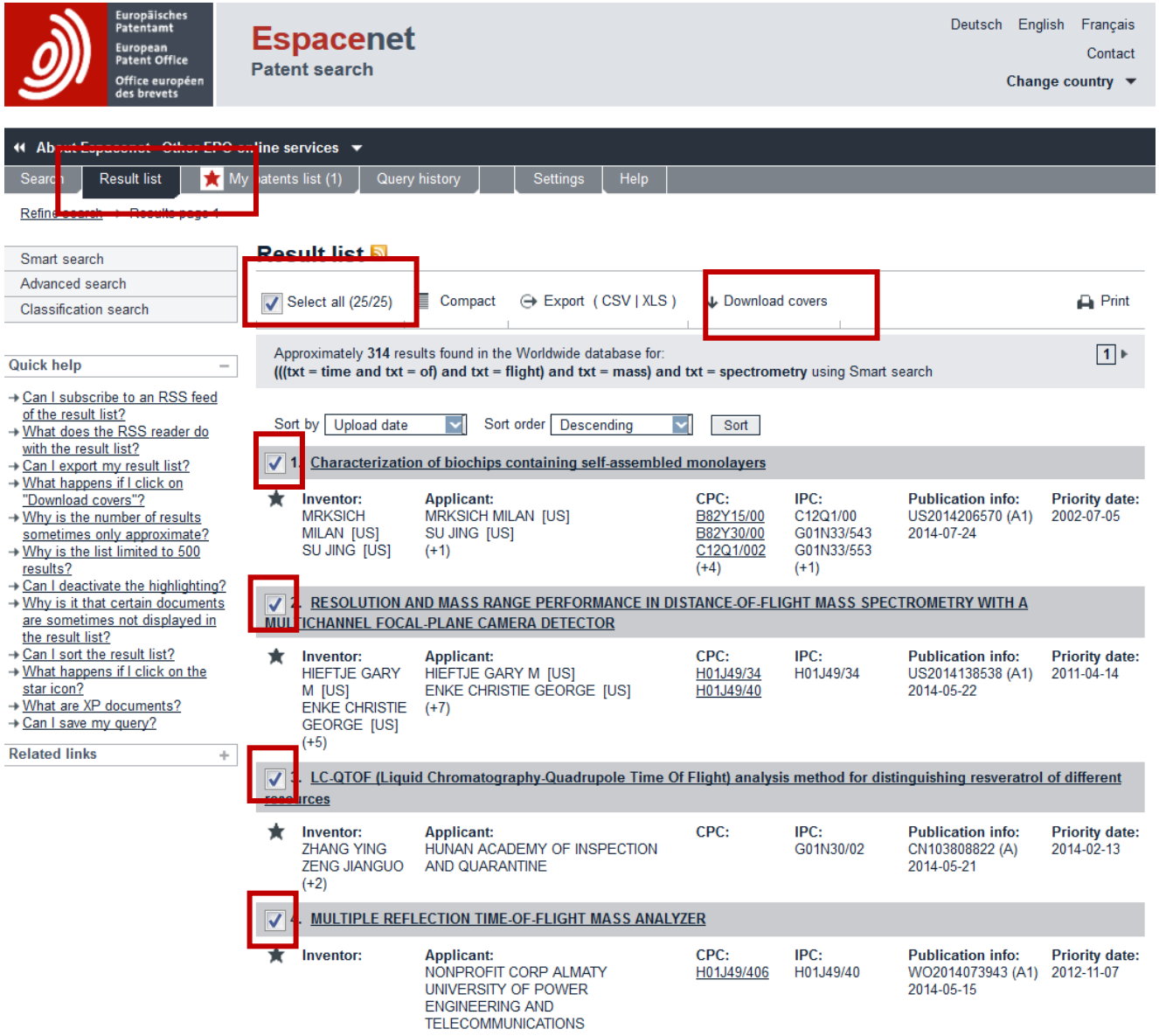

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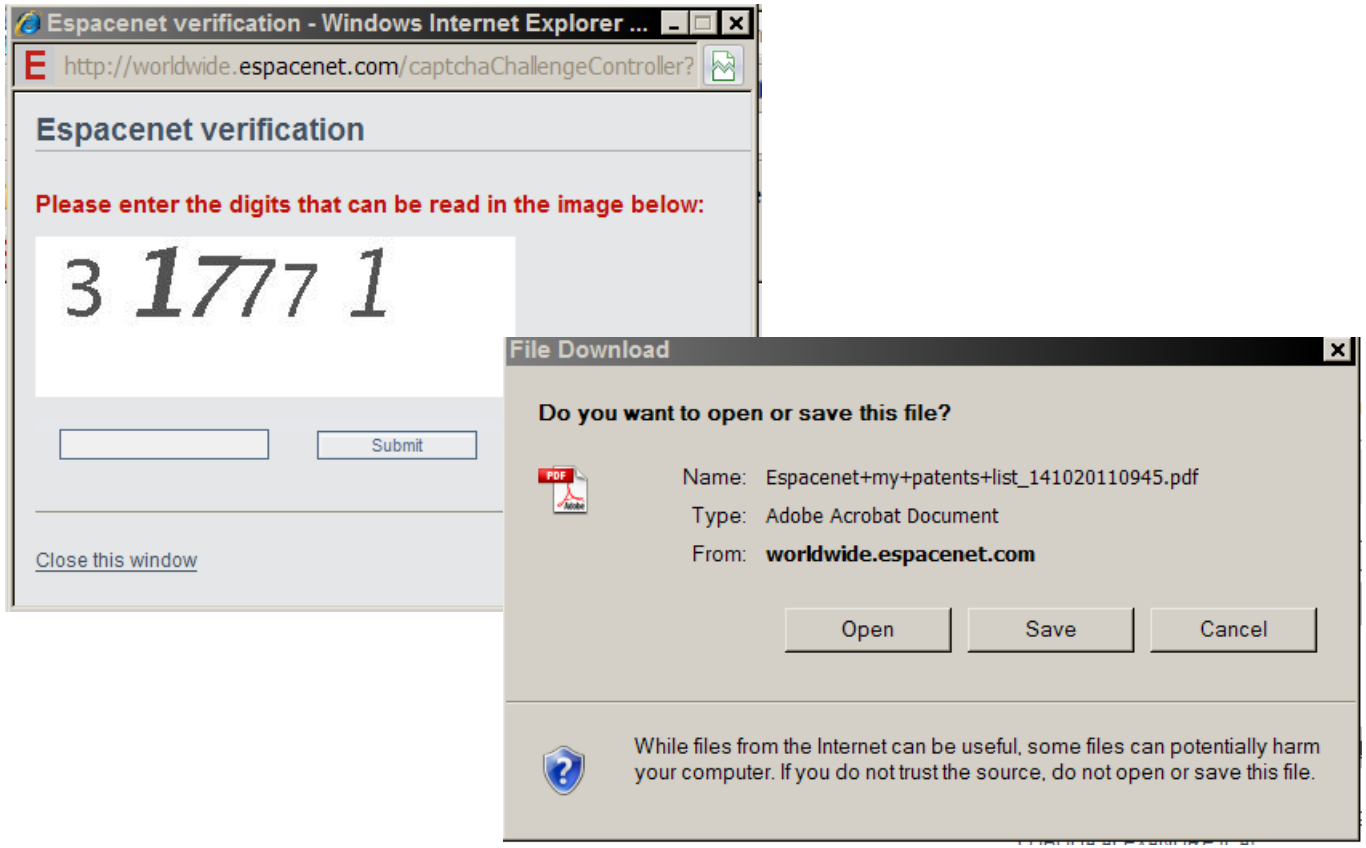

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US2014138538 (A1)	RESOLUTION AND MASS RANGE PERFORMANCE...	49
CN103808822 (A)	LC-QTOF (Liquid Chromatography-Quadru...	71
WO2014073943 (A1)	MULTIPLE REFLECTION TIME-OF-FLIGHT MA...	90

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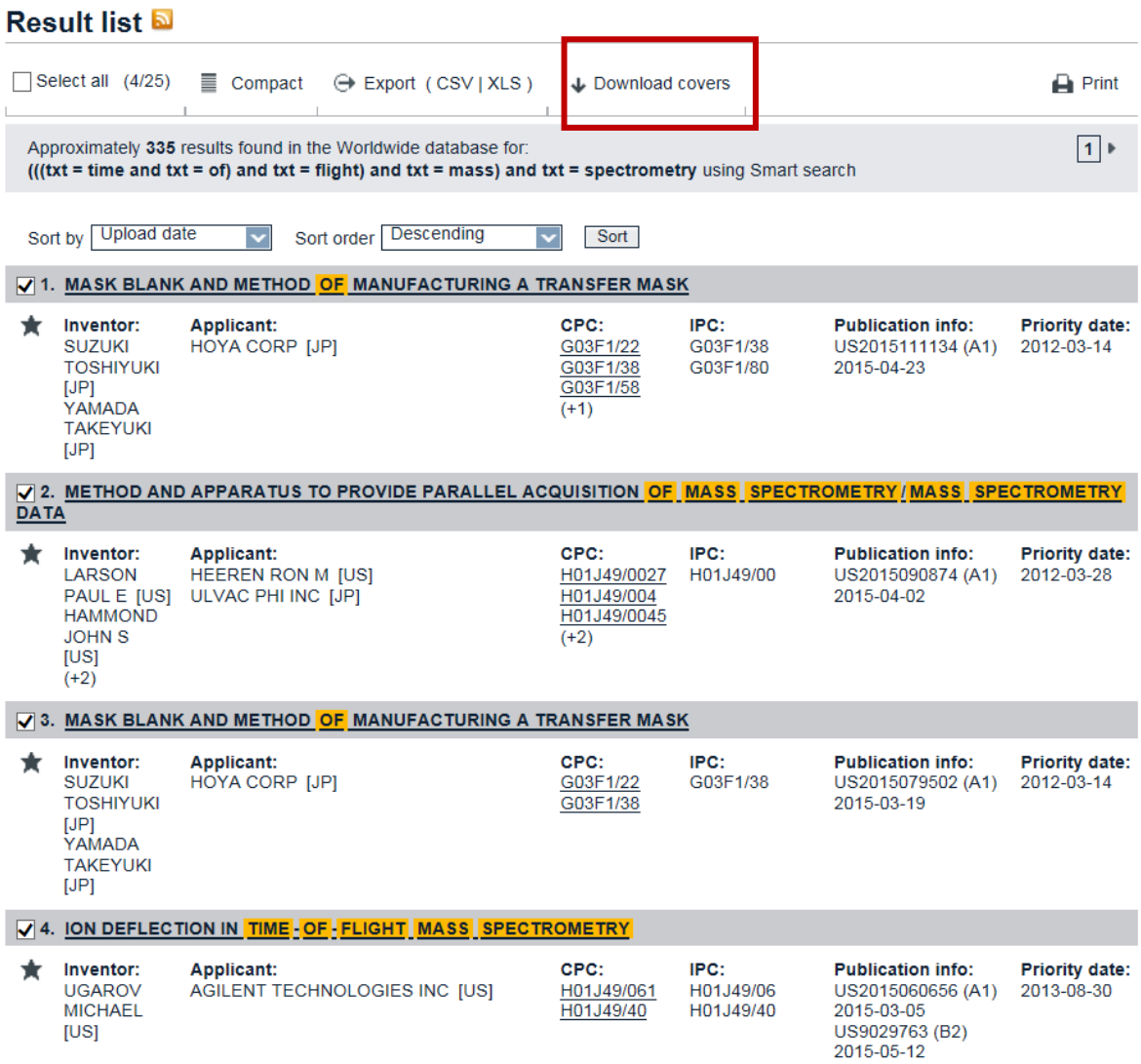

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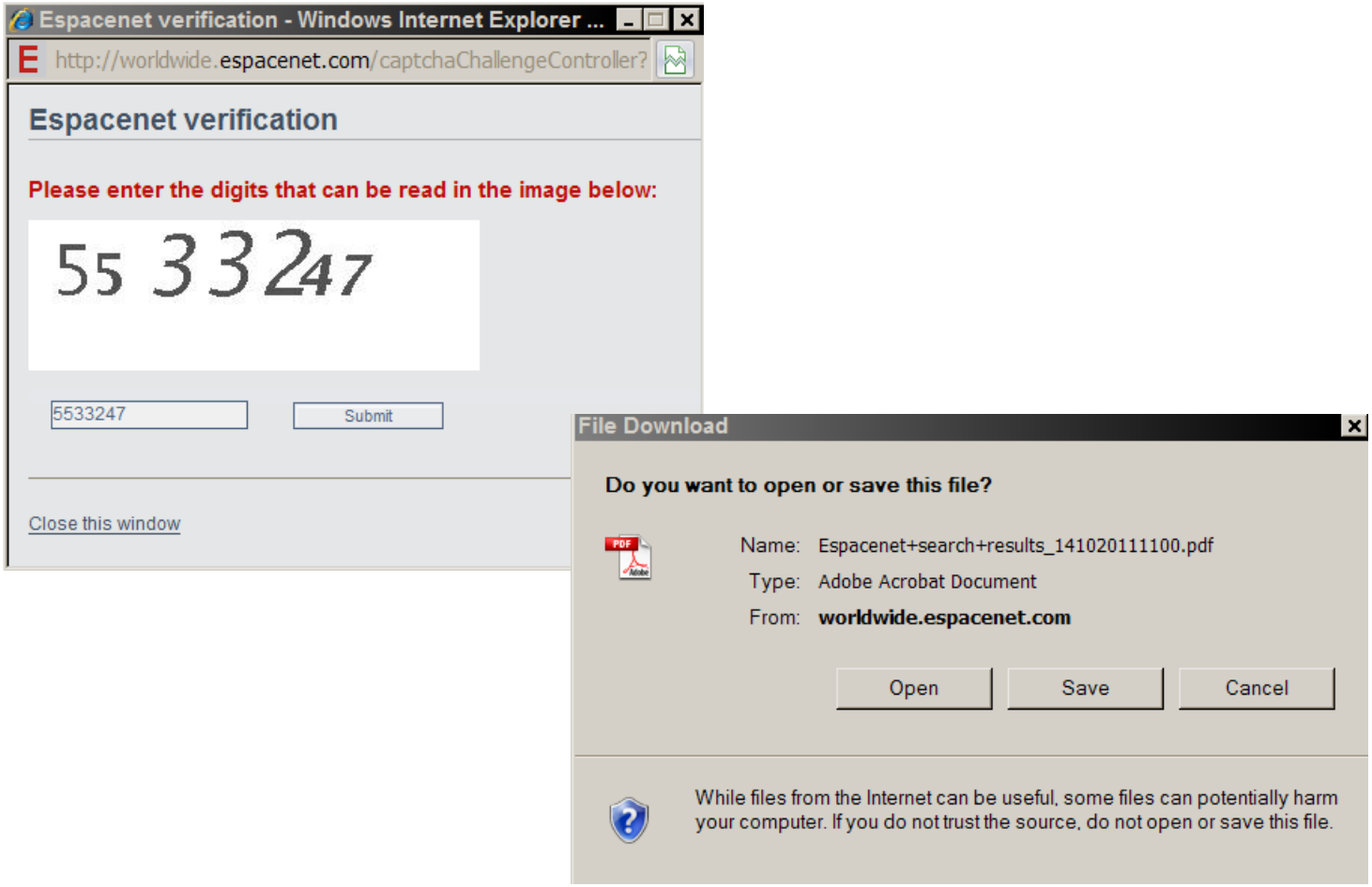
	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
1. MASK BLANK AND METHOD OF MANUFACTURING A TRANSFER MASK	SUZUKI TOSHIYUKI [JP] YAMADA TAKEYUKI [JP]	HOYA CORP [JP]	G03F1/22 G03F1/38 G03F1/58 (+1)	G03F1/38 G03F1/80	US2015111134 (A1) 2015-04-23	2012-03-14
2. METHOD AND APPARATUS TO PROVIDE PARALLEL ACQUISITION OF MASS SPECTROMETRY / MASS SPECTROMETRY DATA	LARSON PAUL E [US] HAMMOND JOHN S [US] (+2)	HEEREN RON M [US] ULVAC PHI INC [JP]	H01J49/0027 H01J49/004 H01J49/0045 (+2)	H01J49/00	US2015090874 (A1) 2015-04-02	2012-03-28
3. MASK BLANK AND METHOD OF MANUFACTURING A TRANSFER MASK	SUZUKI TOSHIYUKI [JP] YAMADA TAKEYUKI [JP]	HOYA CORP [JP]	G03F1/22 G03F1/38	G03F1/38	US2015079502 (A1) 2015-03-19	2012-03-14
4. ION DEFLECTION IN TIME-OF-FLIGHT MASS SPECTROMETRY	UGAROV MICHAEL [US]	AGILENT TECHNOLOGIES INC [US]	H01J49/061 H01J49/40	H01J49/06 H01J49/40	US2015060656 (A1) 2015-03-05 US9029763 (B2) 2015-05-12	2013-08-30

Saving and downloading (VII)



Saving and downloading (VIII)

Espacenet search results on 10-10-2014 17:18

Approximately 314 results found in the Worldwide database for:
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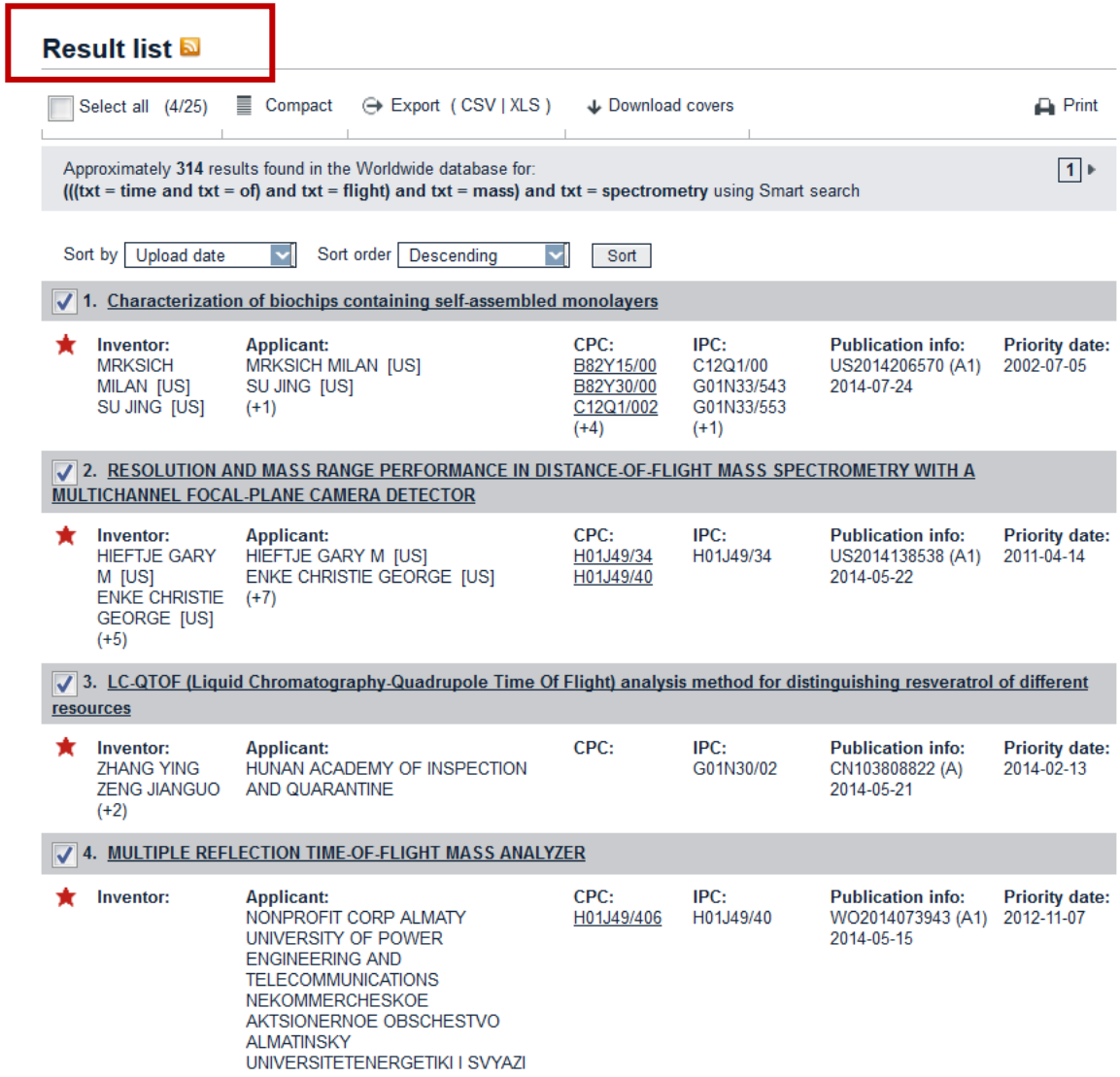
Displaying selected publications

Publication	Title	Page
US2014206570 (A1)	Characterization of biochips containi...	2
US2014138538 (A1)	RESOLUTION AND MASS RANGE PERFORMANCE...	3
CN103808822 (A)	LC-QTOF (Liquid Chromatography-Quadru...	4
WO2014073943 (A1)	MULTIPLE REFLECTION TIME-OF-FLIGHT MA...	5

Communication and sharing (I)



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Sort by Upload date | Sort order Descending | Sort

1. Characterization of biochips containing self-assembled monolayers

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MRKSICH MILAN [US] SU JING [US]	MRKSICH MILAN [US] SU JING [US] (+1)	B82Y15/00 B82Y30/00 C12Q1/002 (+4)	C12Q1/00 G01N33/543 G01N33/553 (+1)	US2014206570 (A1) 2014-07-24	2002-07-05

2. RESOLUTION AND MASS RANGE PERFORMANCE IN DISTANCE-OF-FLIGHT MASS SPECTROMETRY WITH A MULTICHANNEL FOCAL-PLANE CAMERA DETECTOR

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HIEFTJE GARY M [US] ENKE CHRISTIE GEORGE [US] (+5)	HIEFTJE GARY M [US] ENKE CHRISTIE GEORGE [US] (+7)	H01J49/34 H01J49/40	H01J49/34	US2014138538 (A1) 2014-05-22	2011-04-14

3. LC-QTOF (Liquid Chromatography-Quadrupole Time Of Flight) analysis method for distinguishing resveratrol of different resources

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ZHANG YING ZENG JIANGUO (+2)	HUNAN ACADEMY OF INSPECTION AND QUARANTINE		G01N30/02	CN103808822 (A) 2014-05-21	2014-02-13

4. MULTIPLE REFLECTION TIME-OF-FLIGHT MASS ANALYZER

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	NONPROFIT CORP ALMATY UNIVERSITY OF POWER ENGINEERING AND TELECOMMUNICATIONS NEKOMMERCHESKOE AKTSIONERNOE OBSCHESTVO ALMATINSKY UNIVERSITETENERGETIKI I SVYAZI	H01J49/406	H01J49/40	WO2014073943 (A1) 2014-05-15	2012-11-07

Communication and sharing (II)

Espacenet search results - time of flight mass spectrometry Smart search

266 results found in the Worldwide database. Only the first 100 results are displayed.

Characterization of biochips containing self-assembled monolayers
24 July 2014 00:00

RESOLUTION AND MASS RANGE PERFORMANCE IN DISTANCE-OF-FLIGHT MASS SPECTROMETRY WITH A MULTICHANNEL FOCAL-PLANE CAMERA DETECTOR
22 May 2014 00:00

LC-QTOF (Liquid Chromatography-Quadrupole Time Of Flight) analysis method for distinguishing resveratrol of different resources
21 May 2014 00:00

MULTIPLE REFLECTION TIME-OF-FLIGHT MASS ANALYZER
15 May 2014 00:00

A KIT FOR LC-MS CHEMOTAXONOMIC CLASSIFICATION OF WILD TYPE LESPEDEZA SP.
26 March 2014 00:00

TIME-OF-FLIGHT SECONDARY ION MASS SPECTROMETRY AND ANALYSIS APPARATUS
03 April 2014 00:00

TIME-OF-FLIGHT MASS SPECTROMETRY
17 March 2014 00:00

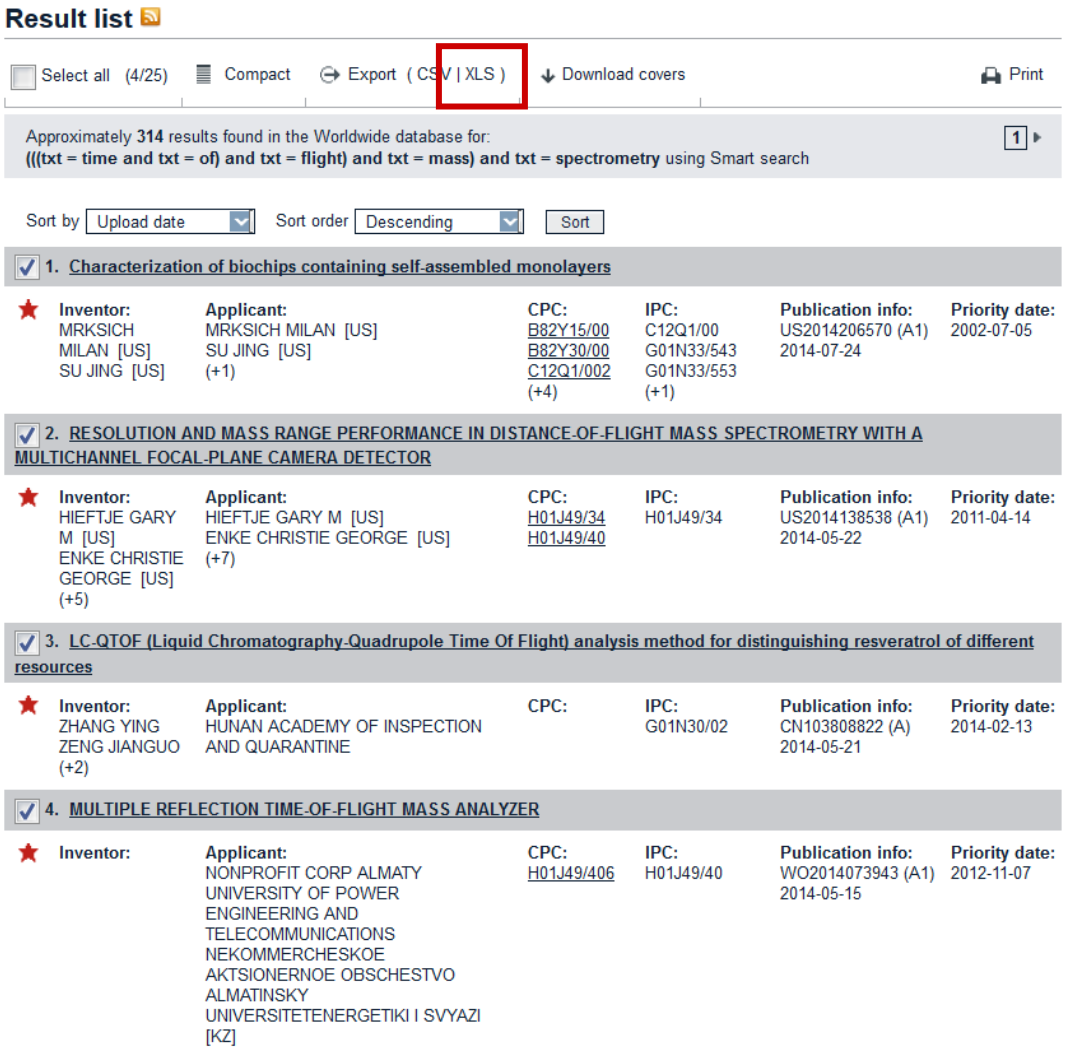
TRANSIENT LEVEL DATA ACQUISITION AND PEAK CORRECTION FOR TIME-OF-FLIGHT MASS SPECTROMETRY
24 April 2014 00:00

CLEANING SHEET, CARRYING MEMBER WITH A CLEANING FUNCTION AND METHOD OF CLEANING SUBSTRATE PROCESSING EQUIPMENT
03 April 2014 00:00

METHODS OF SOURCE ATTRIBUTION FOR CHEMICAL COMPOUNDS
27 March 2014 00:00

Synthesis method of alpha-cyan-4-hydroxycinnamic acids modified silicon-containing matrix
26 March 2014 00:00

Communication and sharing (III)



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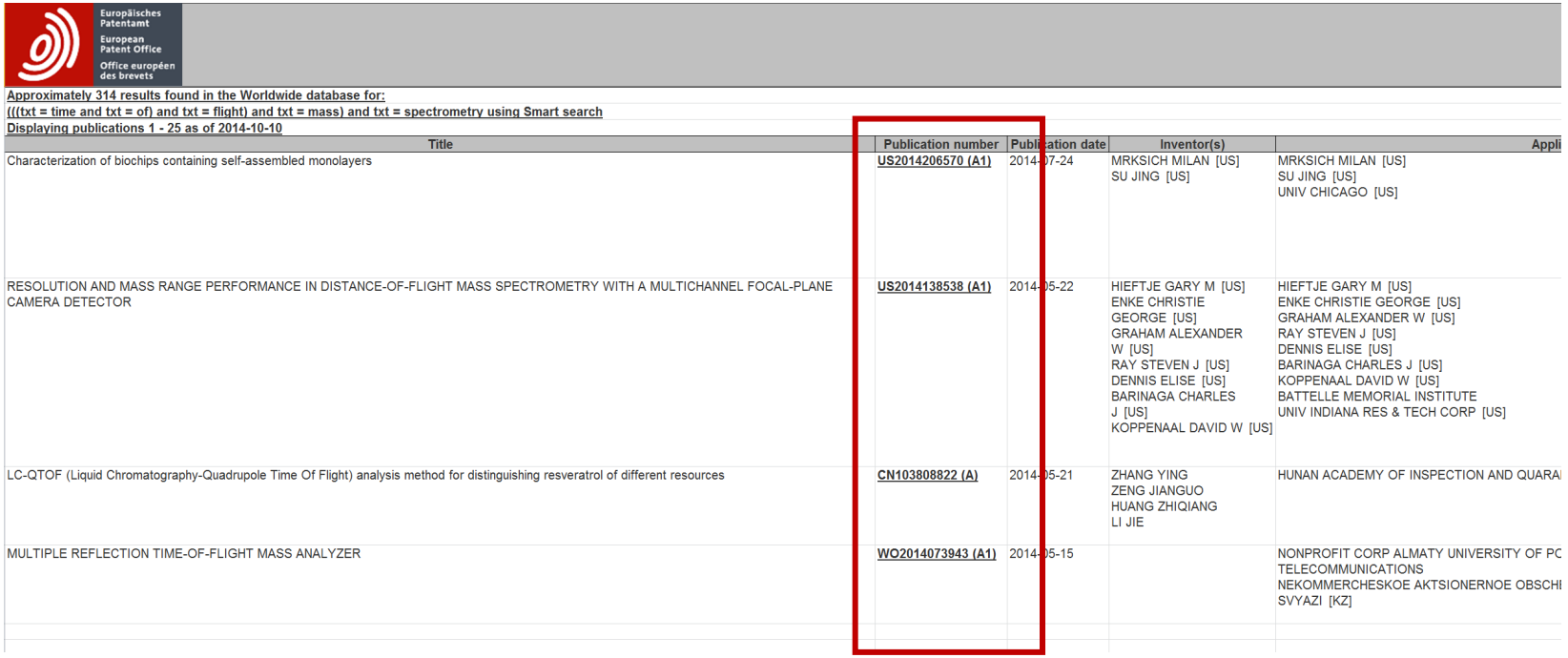
	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
1. Characterization of biochips containing self-assembled monolayers	MRKSICH MILAN [US] SU JING [US] (+1)	MRKSICH MILAN [US] SU JING [US] (+1)	B82Y15/00 B82Y30/00 C12Q1/002 (+4)	C12Q1/00 G01N33/543 G01N33/553 (+1)	US2014206570 (A1) 2014-07-24	2002-07-05
2. RESOLUTION AND MASS RANGE PERFORMANCE IN DISTANCE-OF-FLIGHT MASS SPECTROMETRY WITH A MULTICHANNEL FOCAL-PLANE CAMERA DETECTOR	HIEFTJE GARY M [US] ENKE CHRISTIE GEORGE [US] (+5)	HIEFTJE GARY M [US] ENKE CHRISTIE GEORGE [US] (+7)	H01J49/34 H01J49/40	H01J49/34	US2014138538 (A1) 2014-05-22	2011-04-14
3. LC-QTOF (Liquid Chromatography-Quadrupole Time Of Flight) analysis method for distinguishing resveratrol of different resources	ZHANG YING ZENG JIANGUO (+2)	HUNAN ACADEMY OF INSPECTION AND QUARANTINE		G01N30/02	CN103808822 (A) 2014-05-21	2014-02-13
4. MULTIPLE REFLECTION TIME-OF-FLIGHT MASS ANALYZER		NONPROFIT CORP ALMATY UNIVERSITY OF POWER ENGINEERING AND TELECOMMUNICATIONS NEKOMMERCHESKOE AKTSIONERNOE OBSCHESTVO ALMATINSKY UNIVERSITETENERGETIKI I SVYAZI [KZ]	H01J49/406	H01J49/40	WO2014073943 (A1) 2014-05-15	2012-11-07

Communication and sharing (IV)



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Displaying publications 1 - 25 as of 2014-10-10

Title	Publication number	Publication date	Inventor(s)	Appli
Characterization of biochips containing self-assembled monolayers	US2014206570 (A1)	2014-07-24	MRKSICH MILAN [US] SU JING [US]	MRKSICH MILAN [US] SU JING [US] UNIV CHICAGO [US]
RESOLUTION AND MASS RANGE PERFORMANCE IN DISTANCE-OF-FLIGHT MASS SPECTROMETRY WITH A MULTICHANNEL FOCAL-PLANE CAMERA DETECTOR	US2014138538 (A1)	2014-05-22	HIEFTJE GARY M [US] ENKE CHRISTIE GEORGE [US] GRAHAM ALEXANDER W [US] RAY STEVEN J [US] DENNIS ELISE [US] BARINAGA CHARLES J [US] KOPPENAAL DAVID W [US]	HIEFTJE GARY M [US] ENKE CHRISTIE GEORGE [US] GRAHAM ALEXANDER W [US] RAY STEVEN J [US] DENNIS ELISE [US] BARINAGA CHARLES J [US] KOPPENAAL DAVID W [US] BATTELLE MEMORIAL INSTITUTE UNIV INDIANA RES & TECH CORP [US]
LC-QTOF (Liquid Chromatography-Quadrupole Time Of Flight) analysis method for distinguishing resveratrol of different resources	CN103808822 (A)	2014-05-21	ZHANG YING ZENG JIANGUO HUANG ZHIQIANG LI JIE	HUNAN ACADEMY OF INSPECTION AND QUARA
MULTIPLE REFLECTION TIME-OF-FLIGHT MASS ANALYZER	WO2014073943 (A1)	2014-05-15		NONPROFIT CORP ALMATY UNIVERSITY OF PO TELECOMMUNICATIONS NEKOMMERCHESKOE AKTSIONERNOE OBSCHI SVYAZI [KZ]

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Links Preserved

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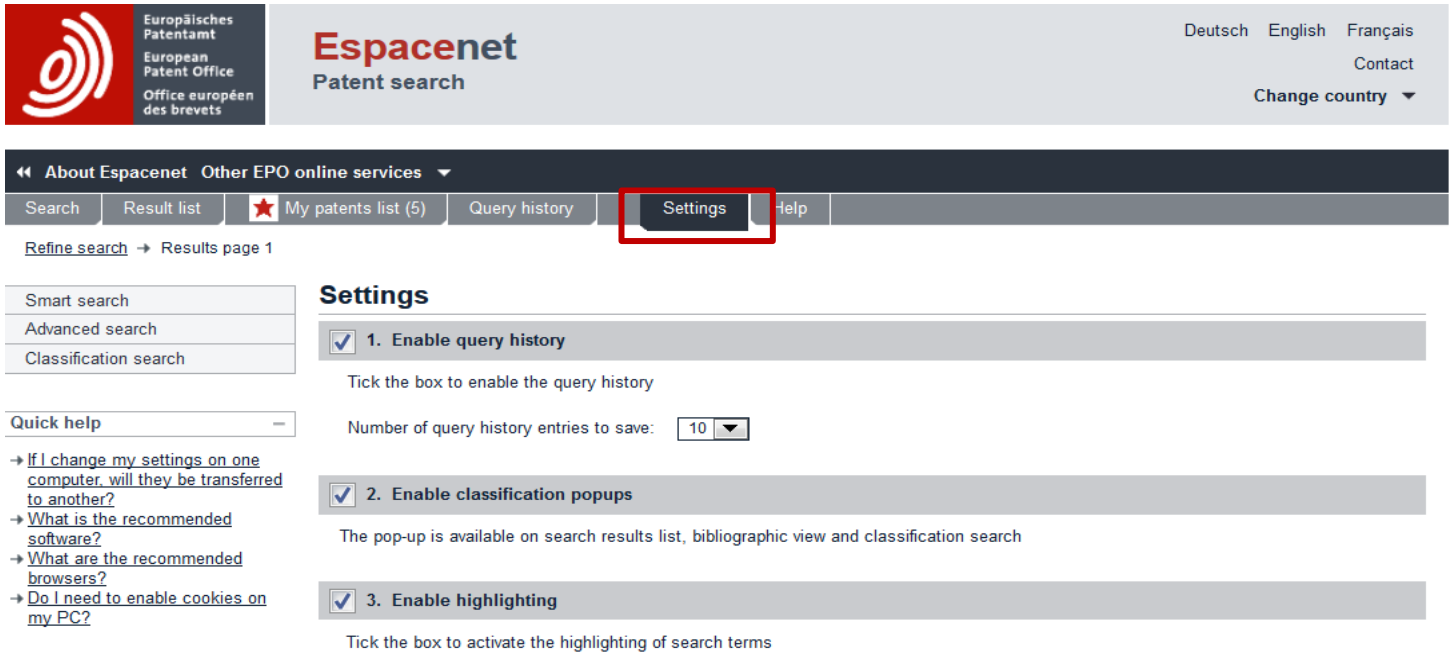

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Settings (II)

Query history

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Dyson ti any "truck sea ball" Smart search

12 results found in the Worldwide database on Thu, 13 Oct 2011 19:20

2. quasi crystal*

quasi crystal* Smart search

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3. "quasi crystal*"

"quasi crystal*" Smart search

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4. maldi

maldi Smart search

Approximately 1054 results found in the Worldwide database on Thu, 13 Oct 2011 19:57

5. hakim soft toy

hakim soft toy Smart search

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6. Hakim soft toy

Hakim soft toy Smart search

0 results found in the Worldwide database on Thu, 13 Oct 2011 20:09

7. Hakim mp3 player

Hakim mp3 player Smart search

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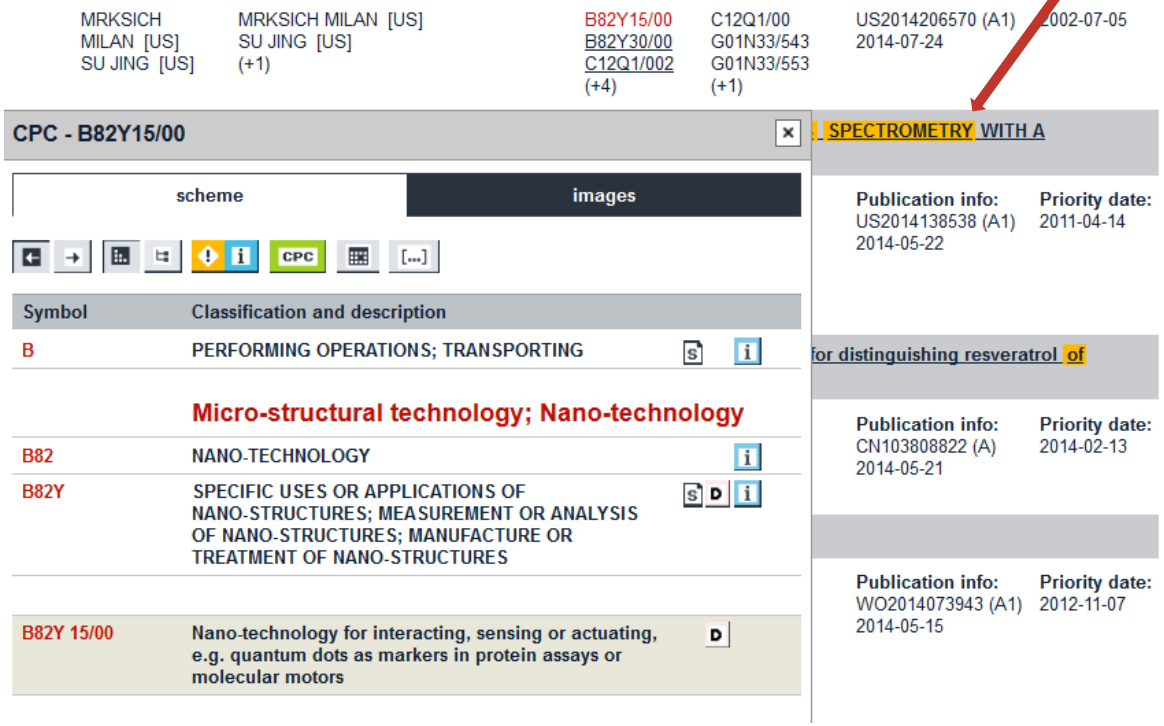

Resources

http://worldwide.espacenet.com	Espacenet
espacenet@epo.org	Espacenet helpdesk

ESPACENET 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

- How would you use the smart search option to find patents in the field of cathode ray tubes published in 1950 with Philo T. Farnsworth as the inventor or applicant?

Exercise 3

- 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 4

Ann Lambrechts is an award-winning inventor.

- How many of her patent applications can you find in Espacenet?
- Which company does she currently work for?
- Each of her patents covers a different specific invention. What is the main technology in her portfolio of inventions?
- Can you find other inventors working in the same field?
- Can you find other companies working in the same field?

Exercise 5

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

Exercise 6

Imagine that you are looking for continuous carbon fibre reinforced materials used in aircraft construction. How would you develop a search strategy using classifications and keywords?

Exercise 7

Borealis is a chemical company providing plastics materials to the infrastructure, automotive and advanced packaging markets. One of its technology platforms is Borstar®.

- Which polymeric and copolymeric materials are in the Borstar® product range?

- How would you find out how many European patents Borealis has applied for for the copolymeric materials?

Exercise 8

In today's cars, the connection between the throttle pedal and the engine is made by electrical signals travelling through wires. The pedal sensor gauges how far the driver is pressing the throttle pedal and sends signals to the engine's control computer, which determines how much to open the throttle based on input from a variety of sensors, choosing a setting that will achieve the lowest exhaust emissions, the best fuel efficiency and good engine response. In 2010, Toyota had to recall many of its products because of a failure of the on-board drive-by-wire system.

- How would you find the relevant Toyota patents?

Exercise 9

- 1,2 dichlorobenzene (*ortho*-DCB) and 1,4 dichlorobenzene (*para*-DCB) are the favoured reaction products in the chlorination of chlorobenzene. What patented methods are there for the production of 1,3 dichlorobenzene (*meta*-DCB)?

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- procedural status information

relating to

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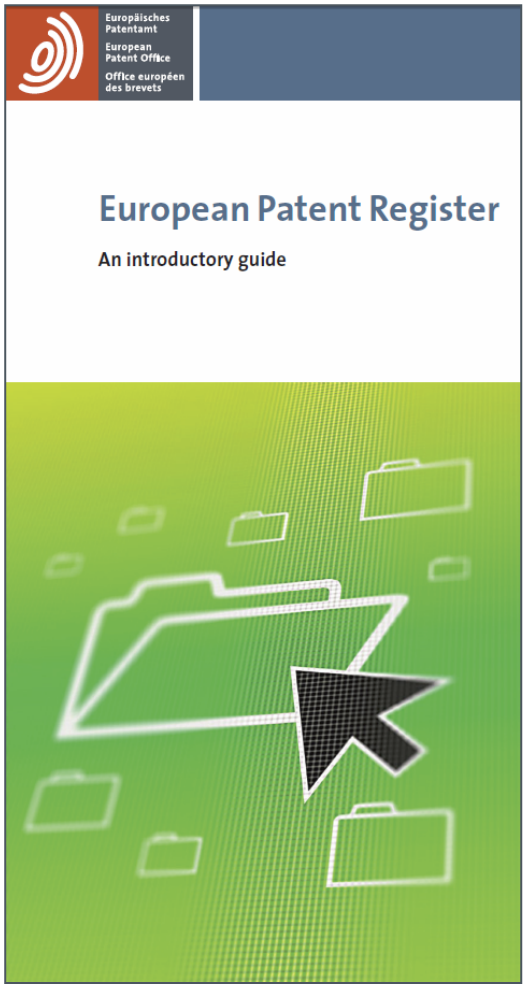
- PCT applications

at the EPO during the European phase



Access and availability

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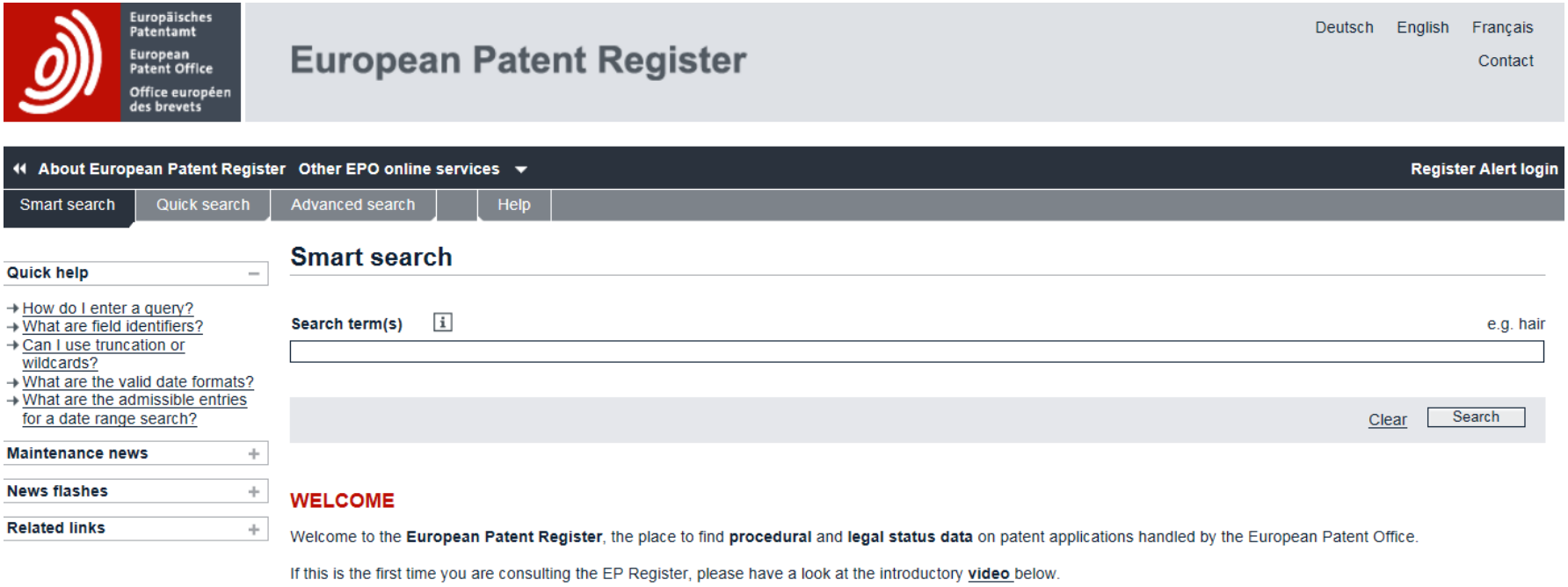

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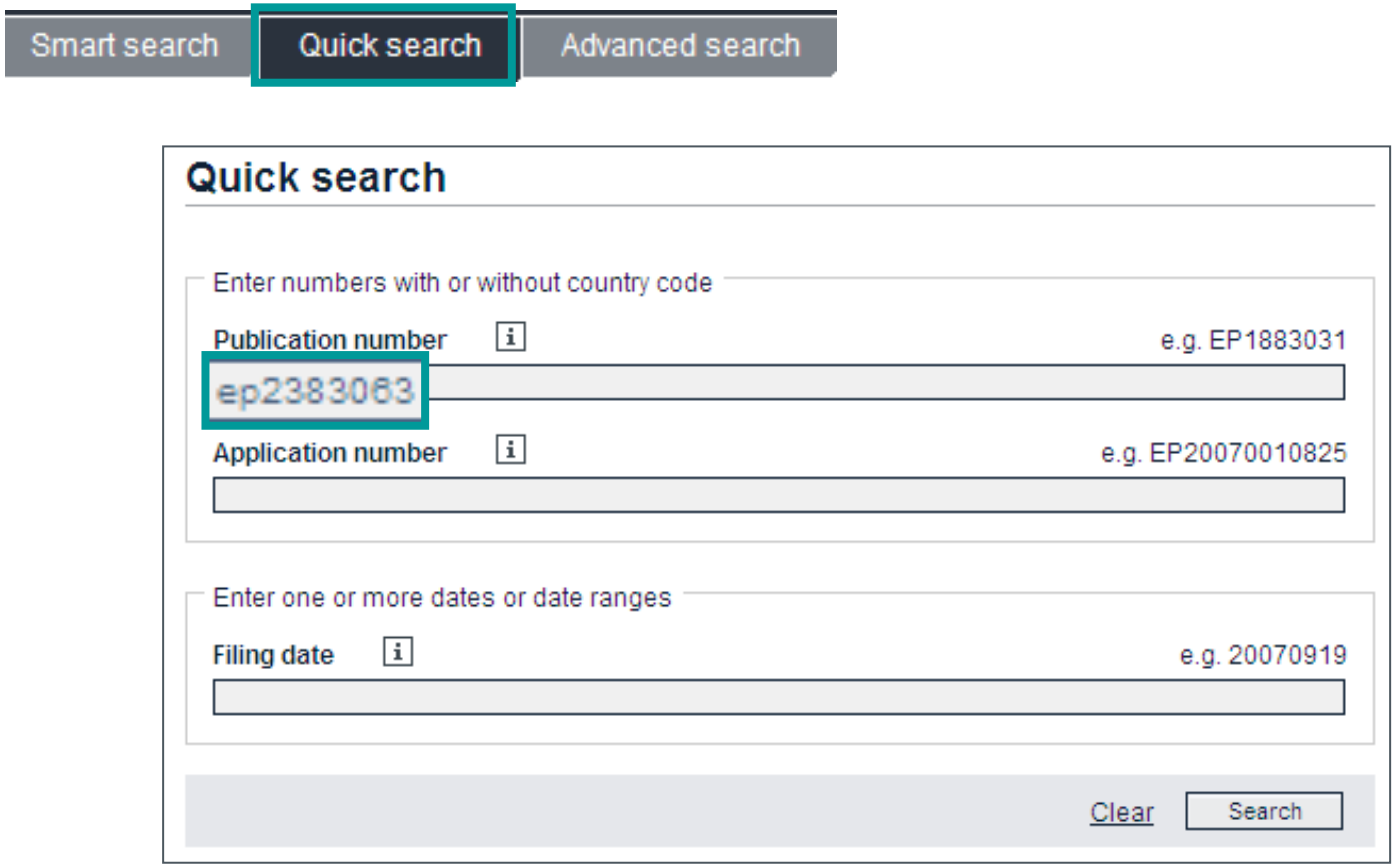

Advanced search (I)

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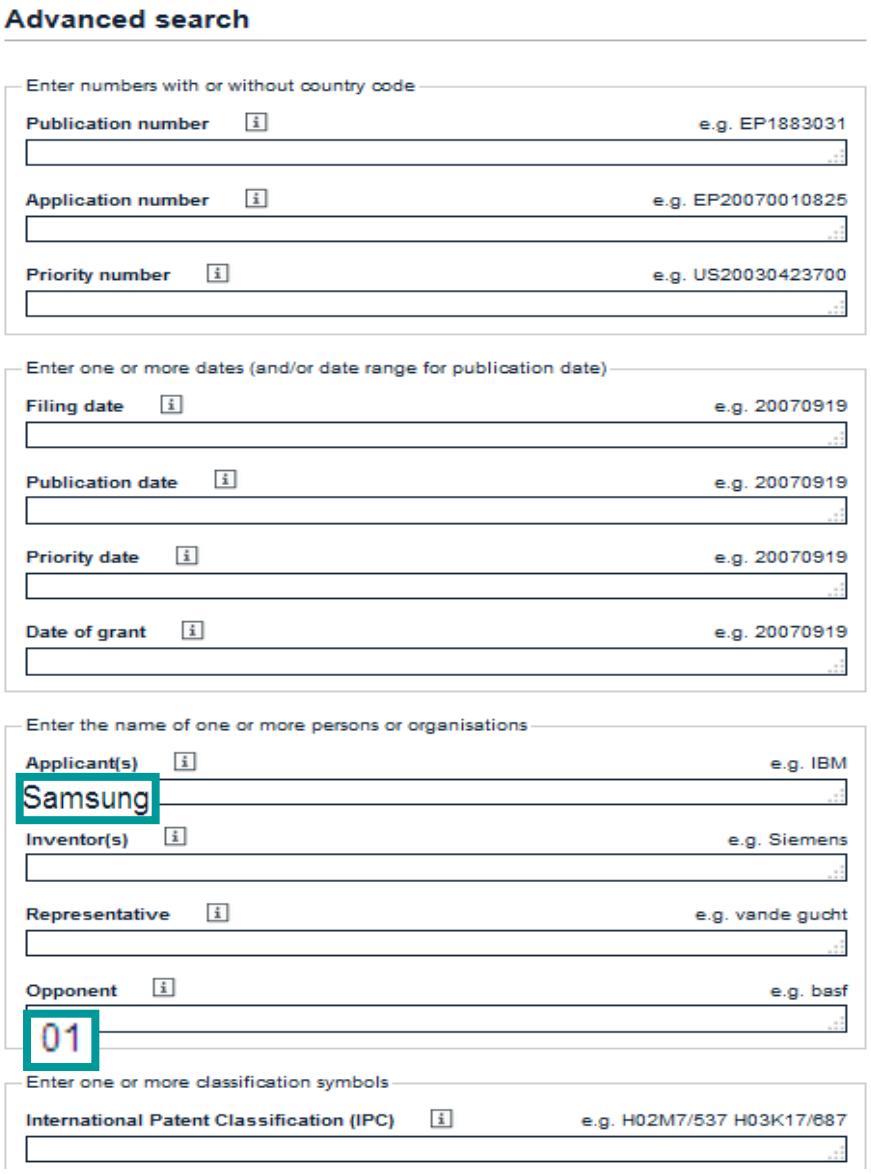
Advanced search (II)

Smart search | Quick search | Advanced search



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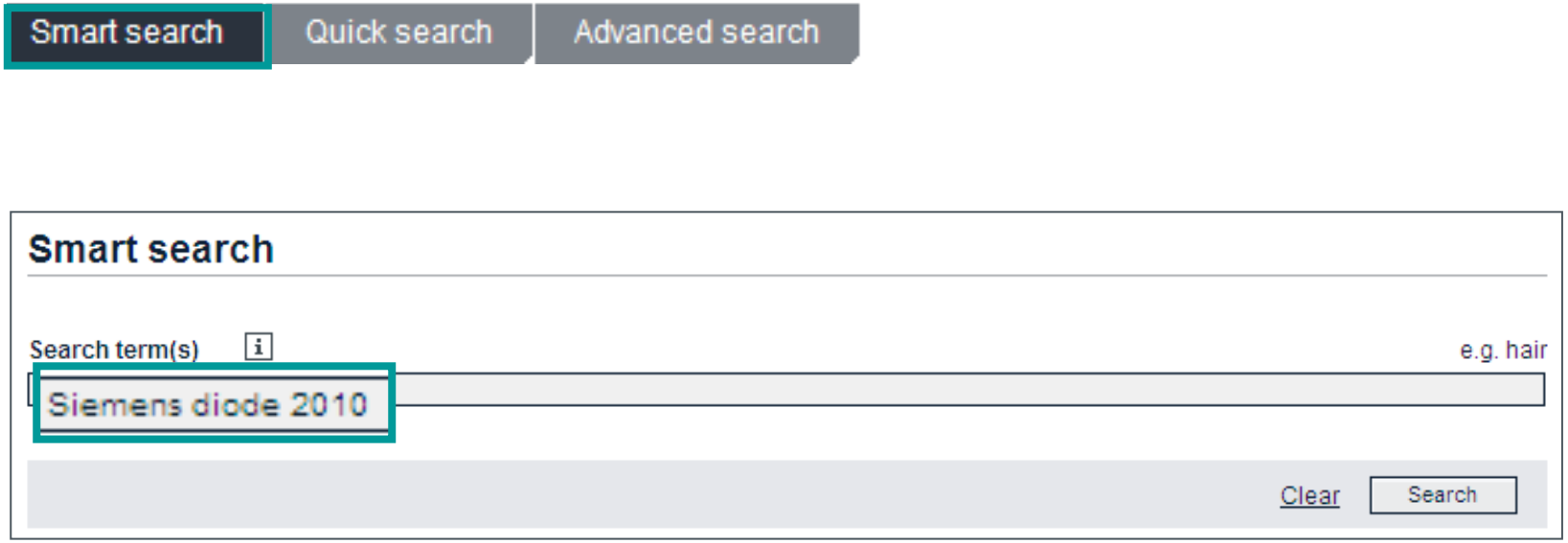


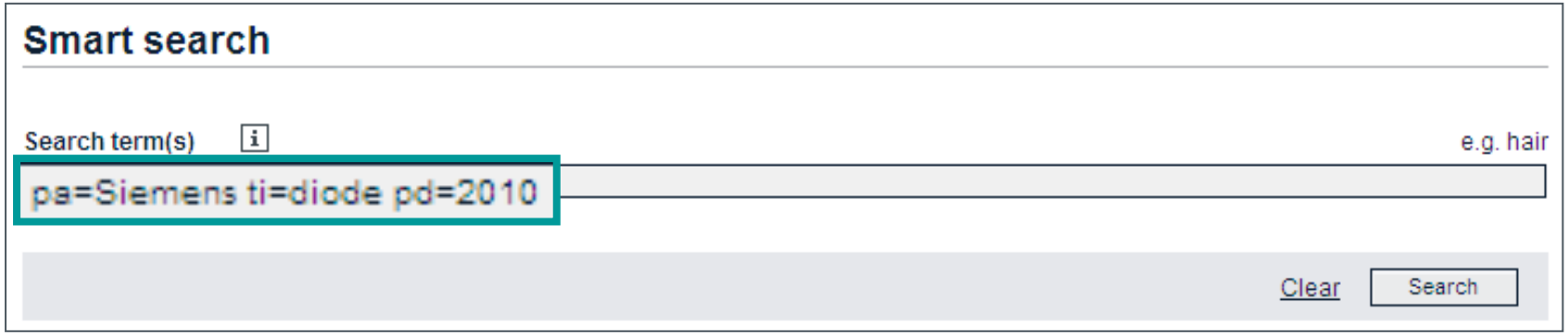
Smart search field identifiers (I)

Field identifiers

The following table lists the field identifiers together with a definition and an example of how to use them.

Field identifier	Description	Examples
in	inventor	in=smith
pa	applicant	pa=siemens
re	representative	re="vande gucht"
op	opponent	op=basf
ti	title	ti="mouse trap"
ap	EP/WO application number	ap=ep99203729
pn	EP/WO publication number	pn=ep1000000
pr	priority number	pr=ep20050104792
fd	filing date	fd=20010526
pd	publication date	pd=20020103
prd	priority date	prd=19780707
ic	international classification	ic=a63b49/08
ia	inventor and applicant	ia=Smith
nm	inventor, applicant, opponent, representative	nm=Sony
txt	title, inventor, applicant, opponent and representative	txt=microscope lens
num	EP/WO application number, EP/WO publication number and priority number	num=ep1000000 or num=wo2007117737

Smart search field identifiers (II)



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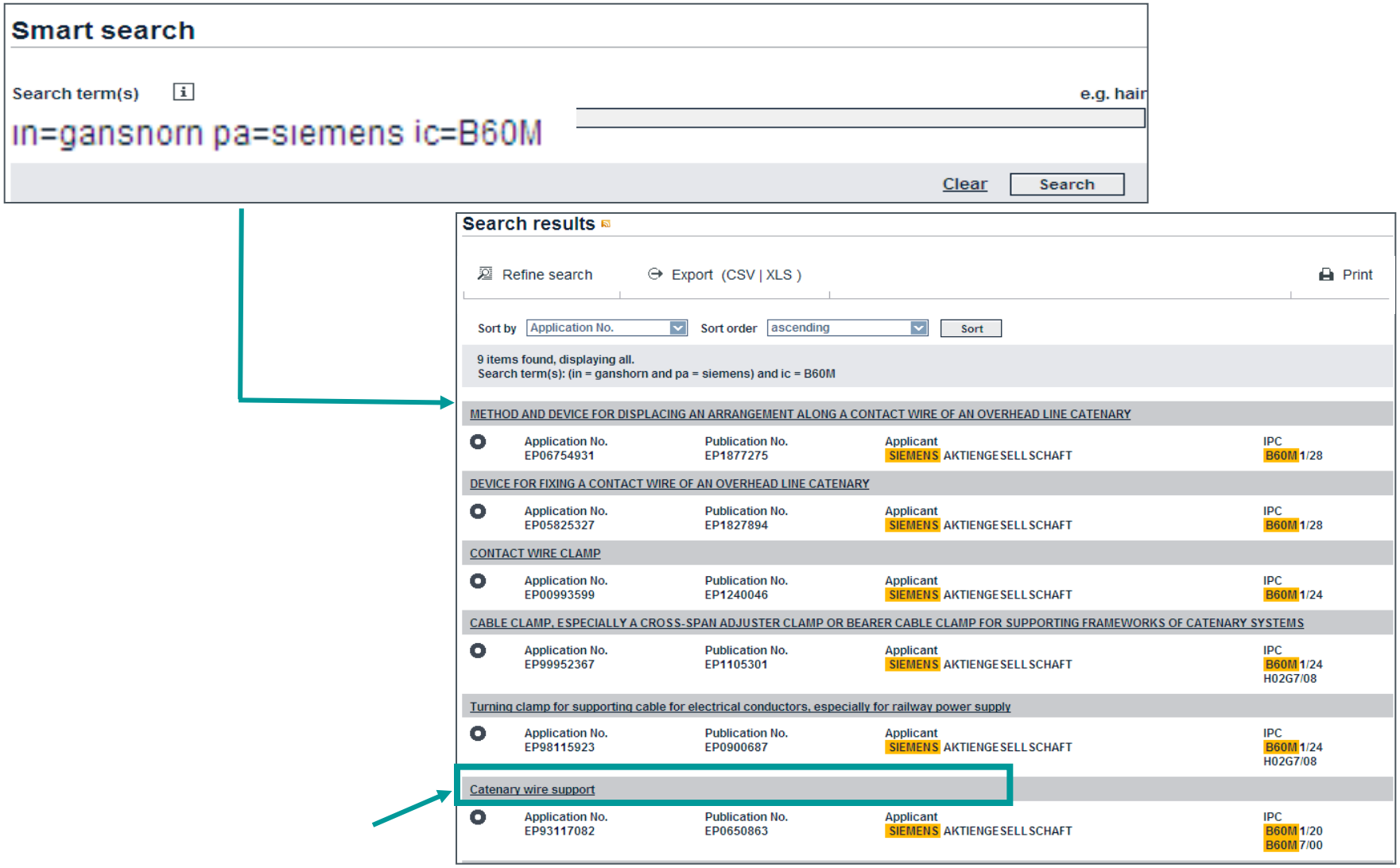

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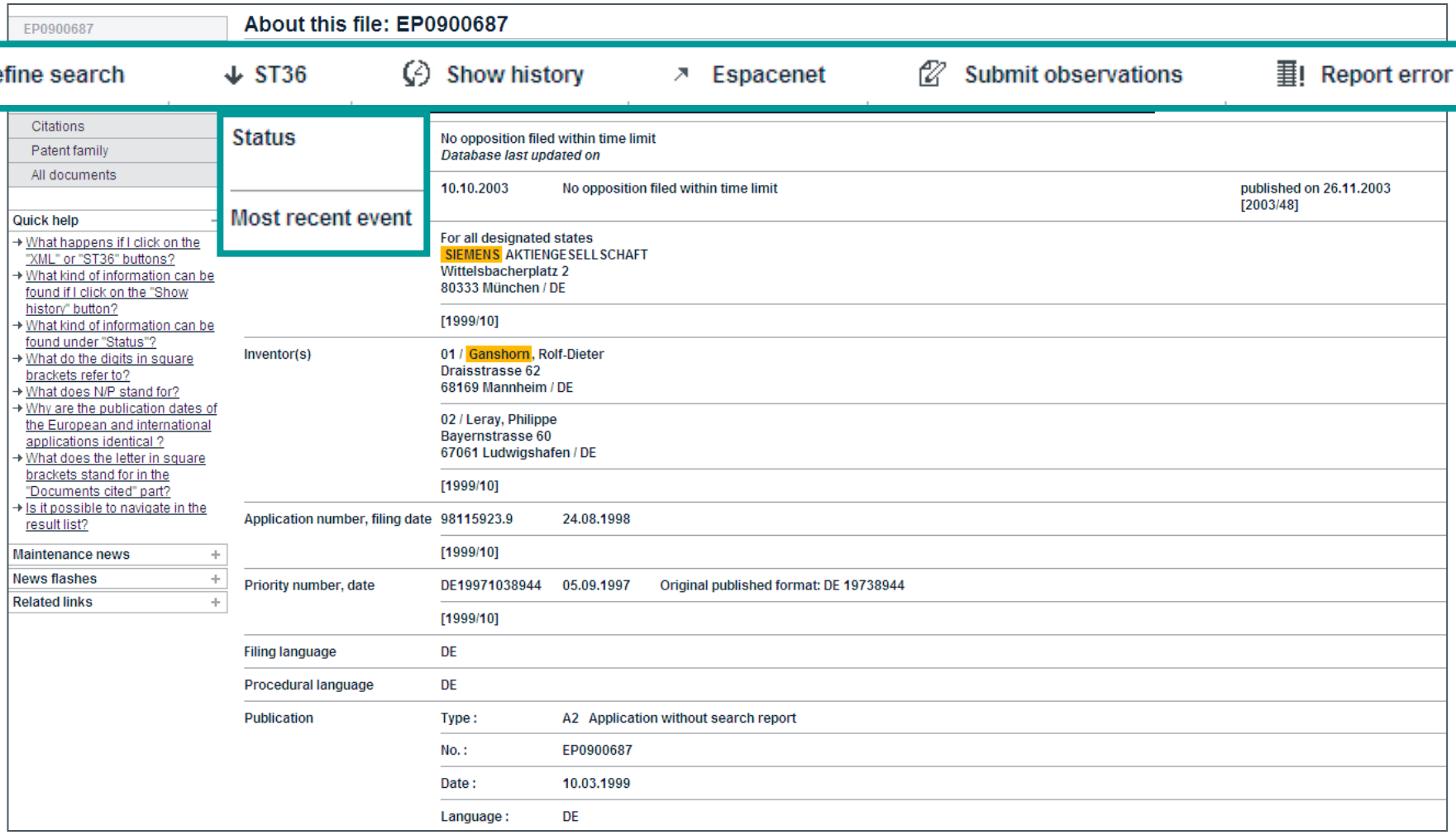

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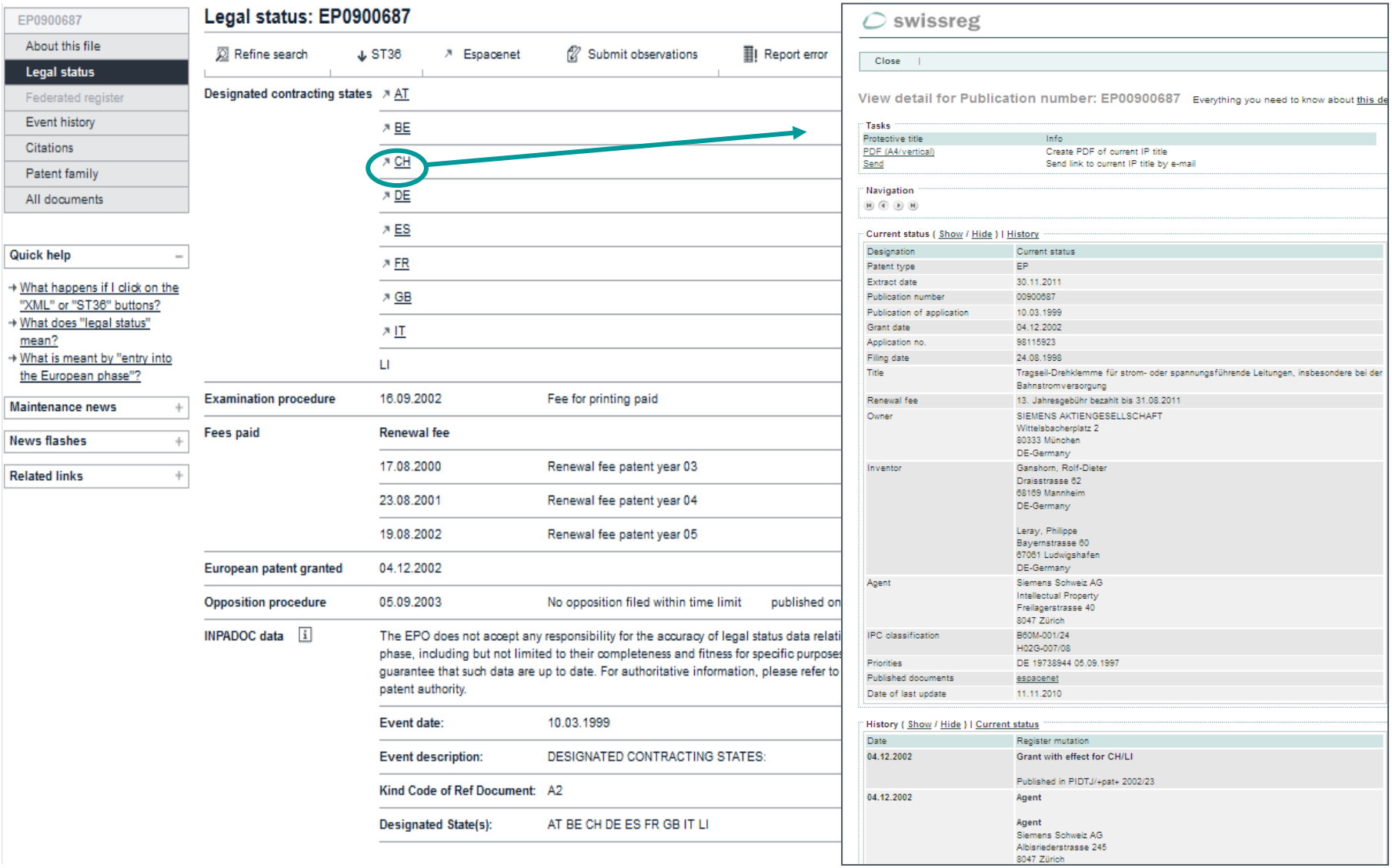

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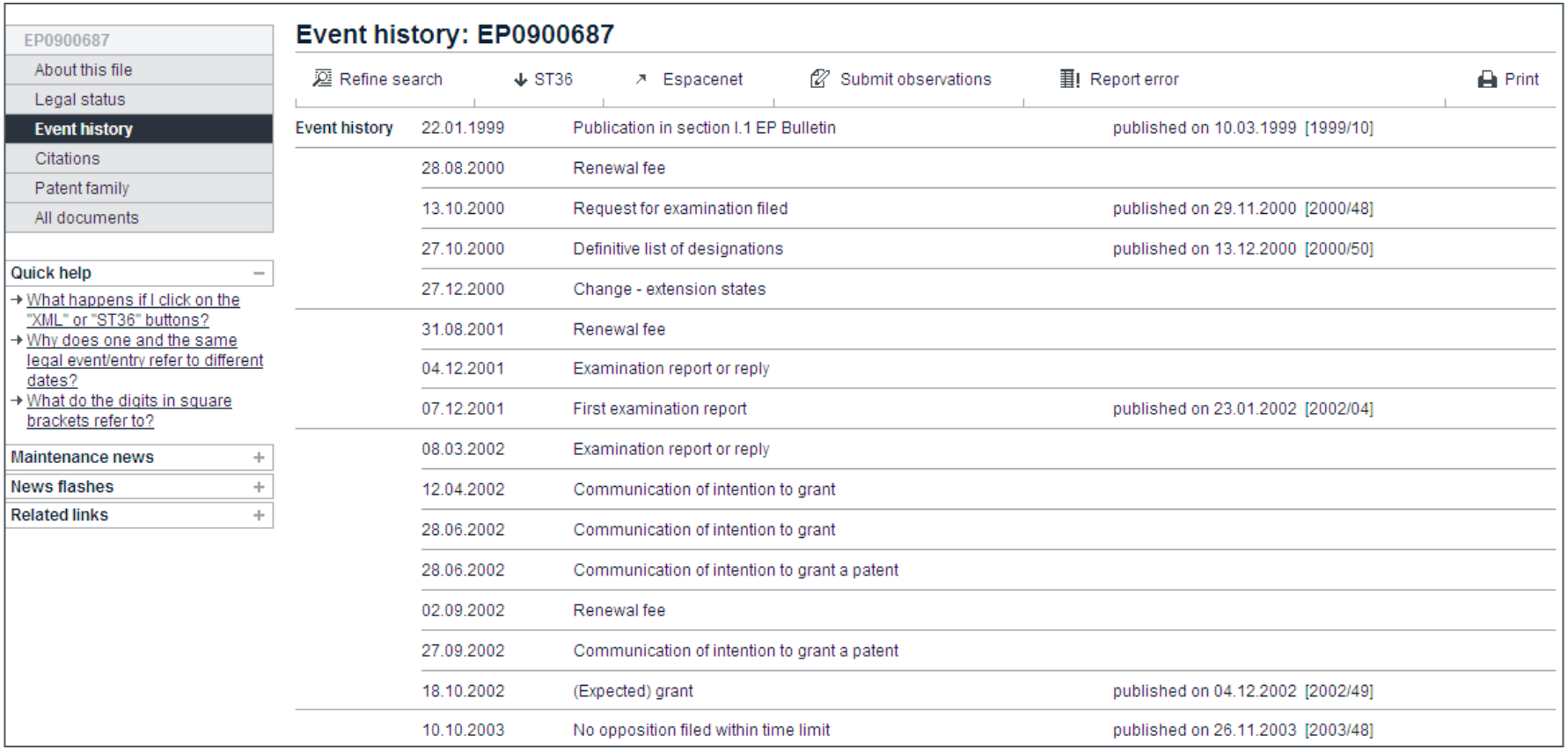

EP0900687

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- What do the digits in square brackets refer to?

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Event history: EP0900687

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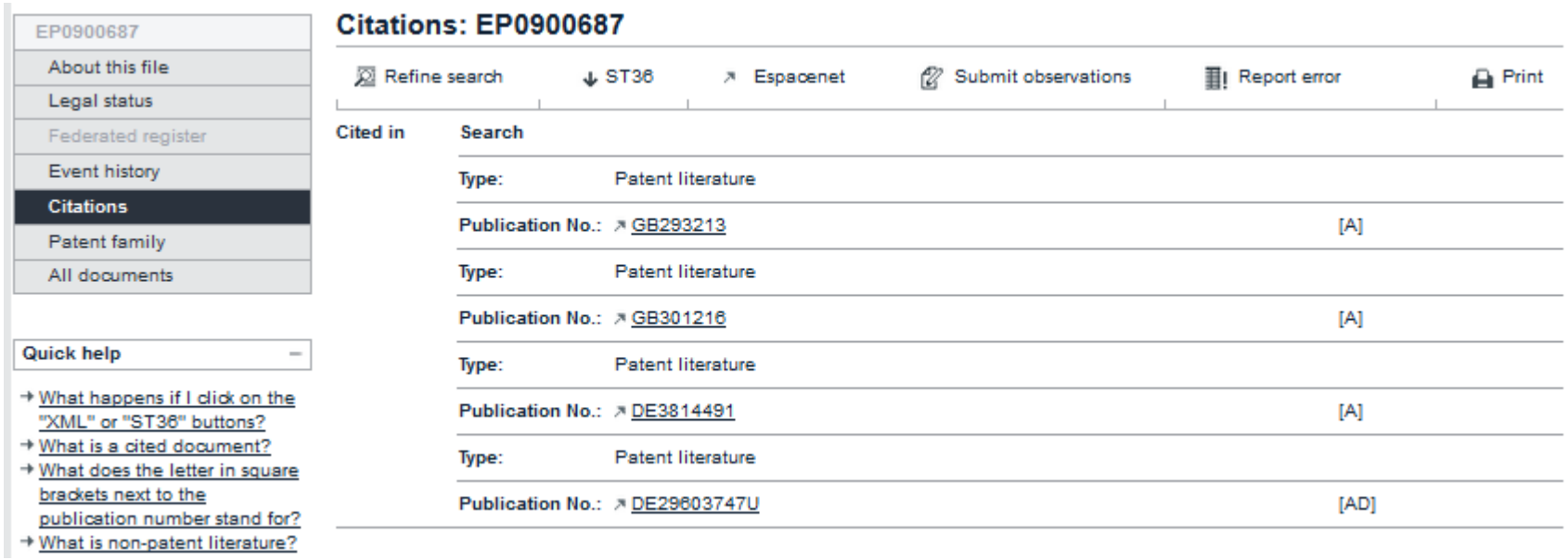
Event history	22.01.1999	Publication in section I.1 EP Bulletin	published on 10.03.1999 [1999/10]
	28.08.2000	Renewal fee	
	13.10.2000	Request for examination filed	published on 29.11.2000 [2000/48]
	27.10.2000	Definitive list of designations	published on 13.12.2000 [2000/50]
	27.12.2000	Change - extension states	
	31.08.2001	Renewal fee	
	04.12.2001	Examination report or reply	
	07.12.2001	First examination report	published on 23.01.2002 [2002/04]
	08.03.2002	Examination report or reply	
	12.04.2002	Communication of intention to grant	
	28.06.2002	Communication of intention to grant	
	28.06.2002	Communication of intention to grant a patent	
	02.09.2002	Renewal fee	
	27.09.2002	Communication of intention to grant a patent	
	18.10.2002	(Expected) grant	published on 04.12.2002 [2002/49]
	10.10.2003	No opposition filed within time limit	published on 26.11.2003 [2003/48]

Citations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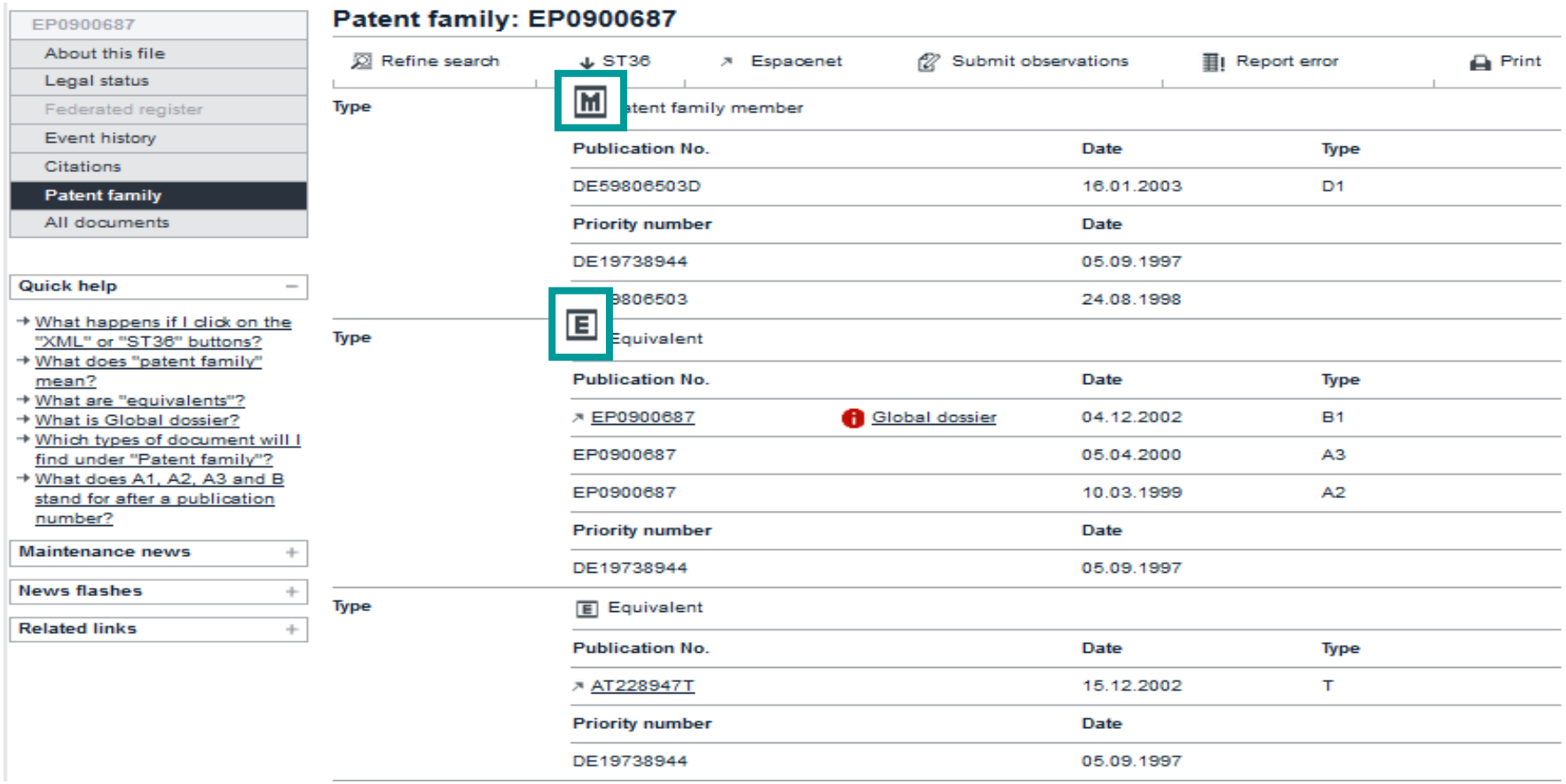
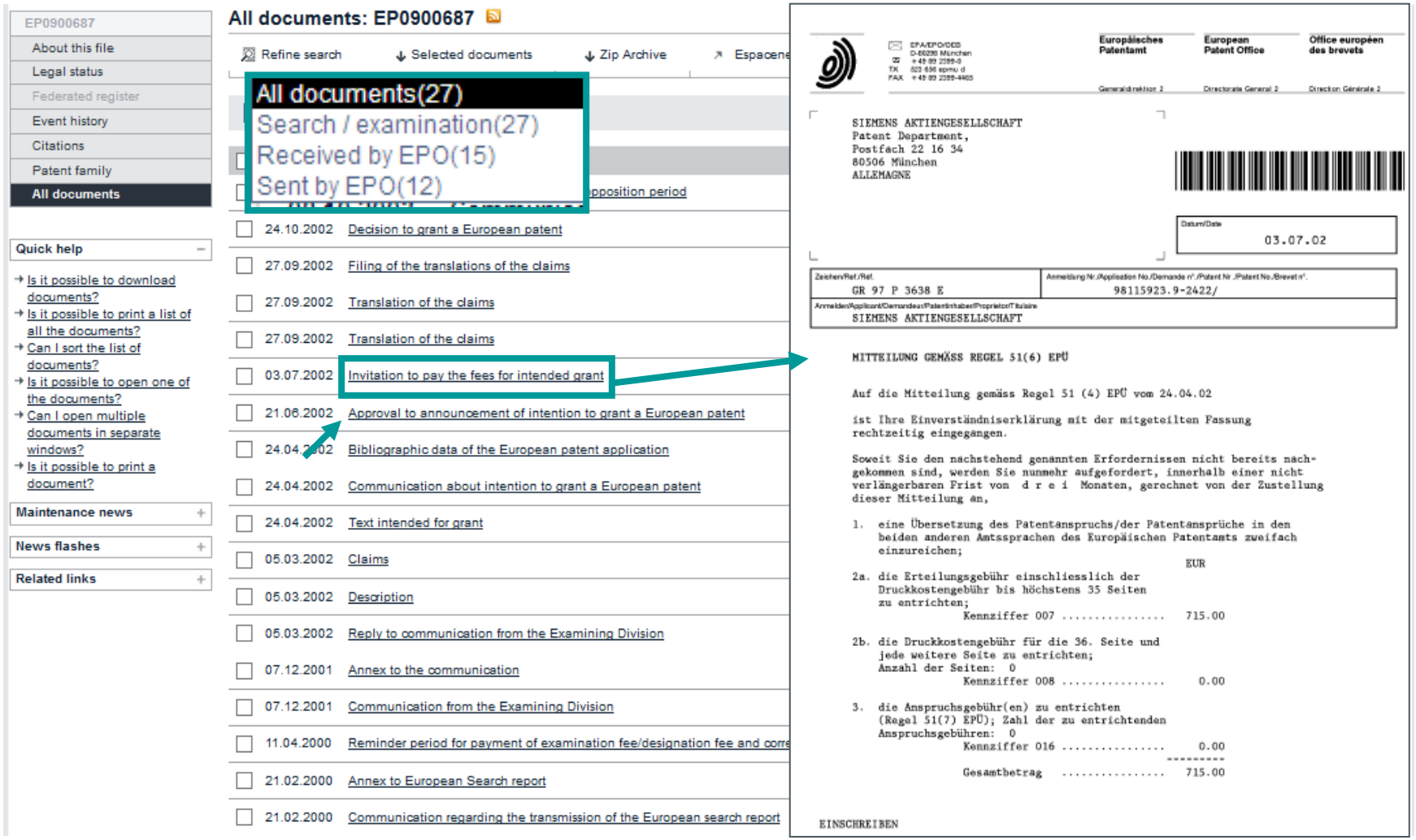
Type: Patent literature
Publication No.: GB301216 [A]
Type: Patent literature
Publication No.: DE3814491 [A]
Type: Patent literature
Publication No.: DE29603747U [AD]

Patent family



All documents = online file inspection



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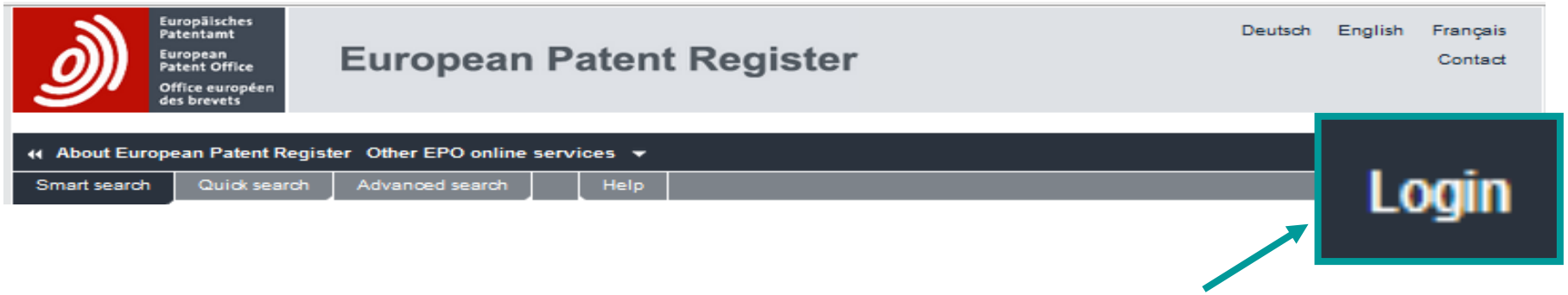
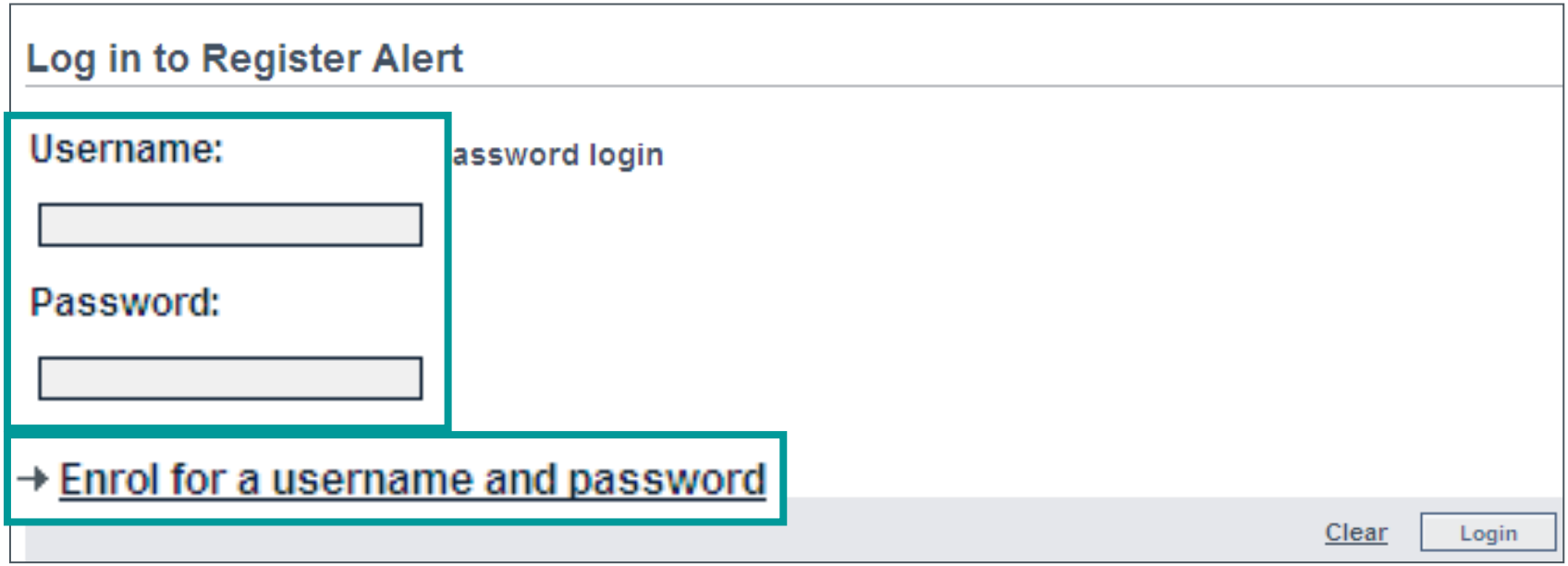
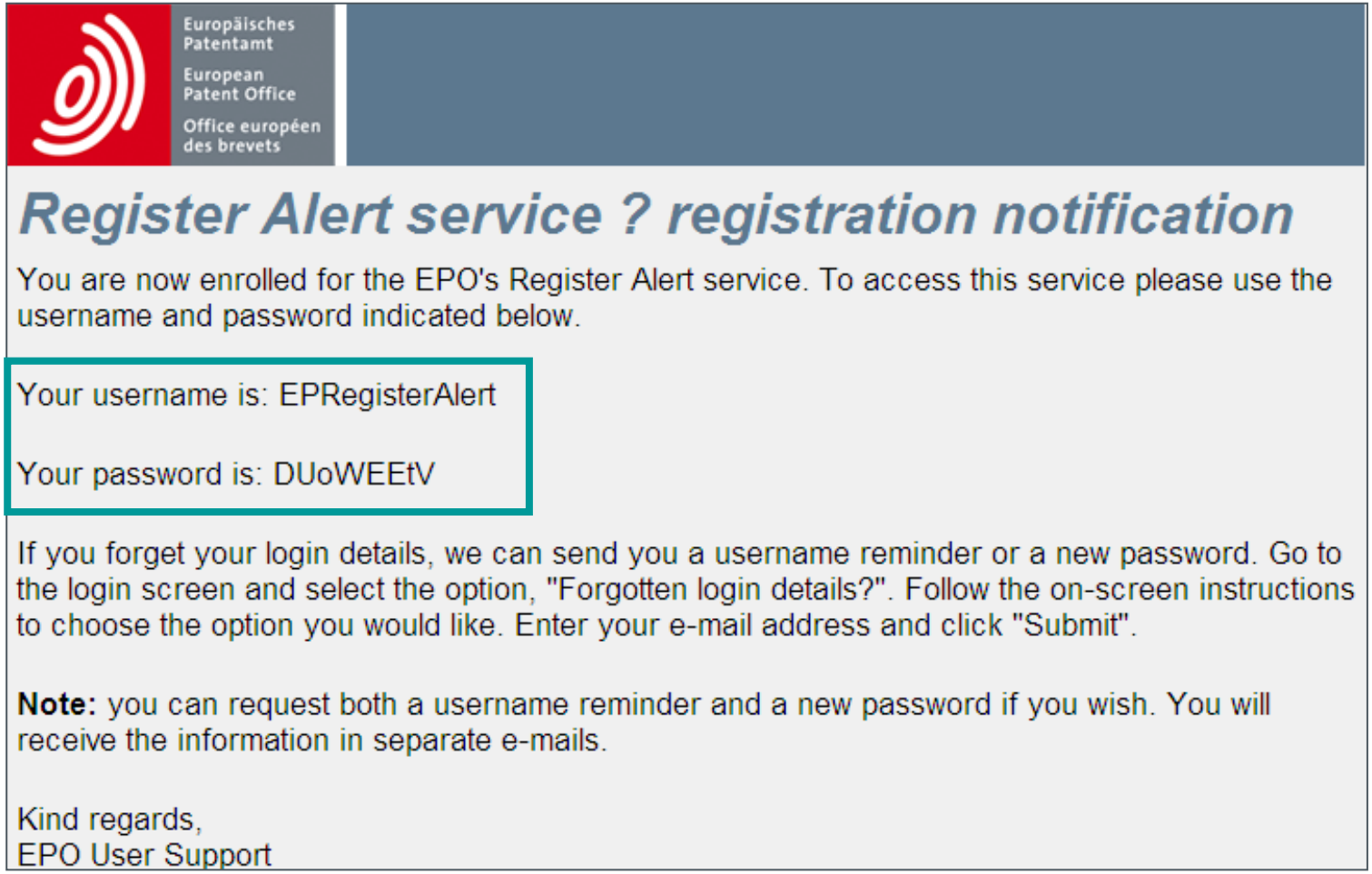


Accessing Register Alert (III)



Setting up an account in Register Alert



Europäisches Patentamt
European Patent Office
Office européen des brevets

Register Alert service ? registration notification

You are now enrolled for the EPO's Register Alert service. To access this service please use the username and password indicated below.

Your username is: EPRegisterAlert

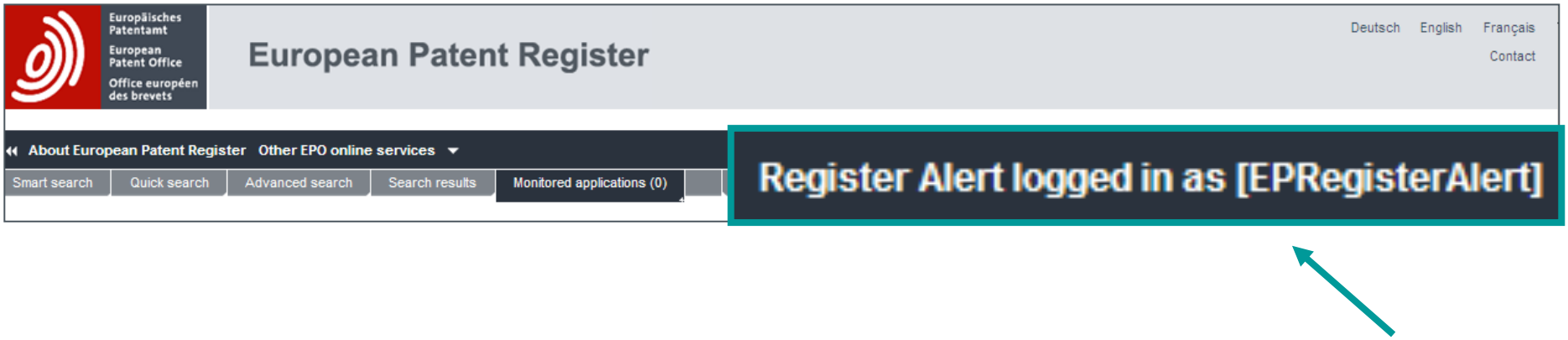
Your password is: DUoWEEtV

If you forget your login details, we can send you a username reminder or a new password. Go to the login screen and select the option, "Forgotten login details?". Follow the on-screen instructions to choose the option you would like. Enter your e-mail address and click "Submit".

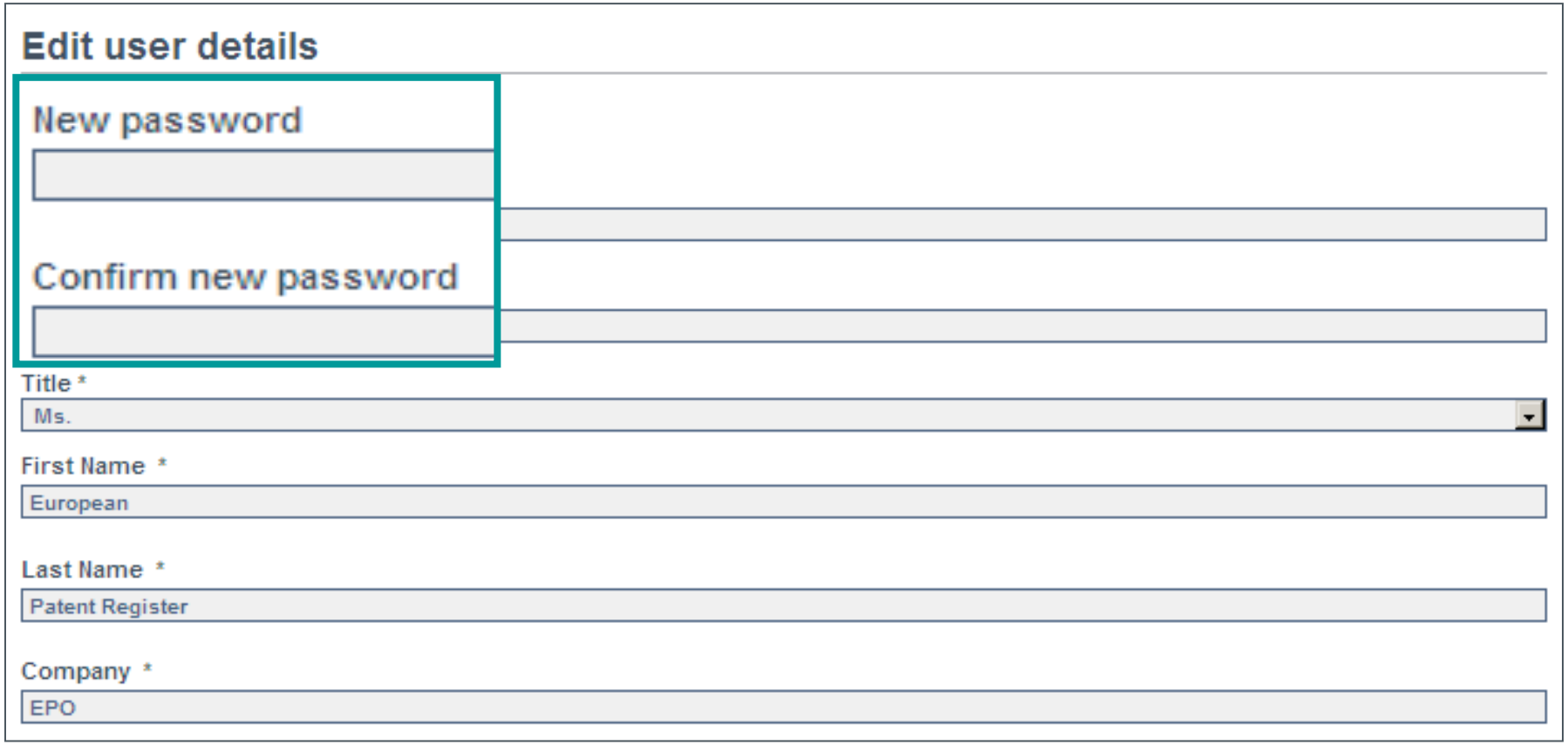
Note: you can request both a username reminder and a new password if you wish. You will receive the information in separate e-mails.

Kind regards,
EPO User Support

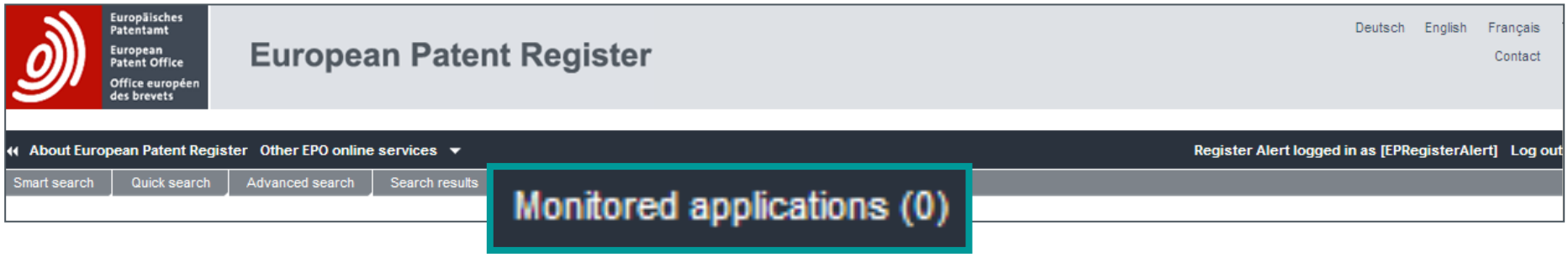
Logged in to Register Alert with username and password



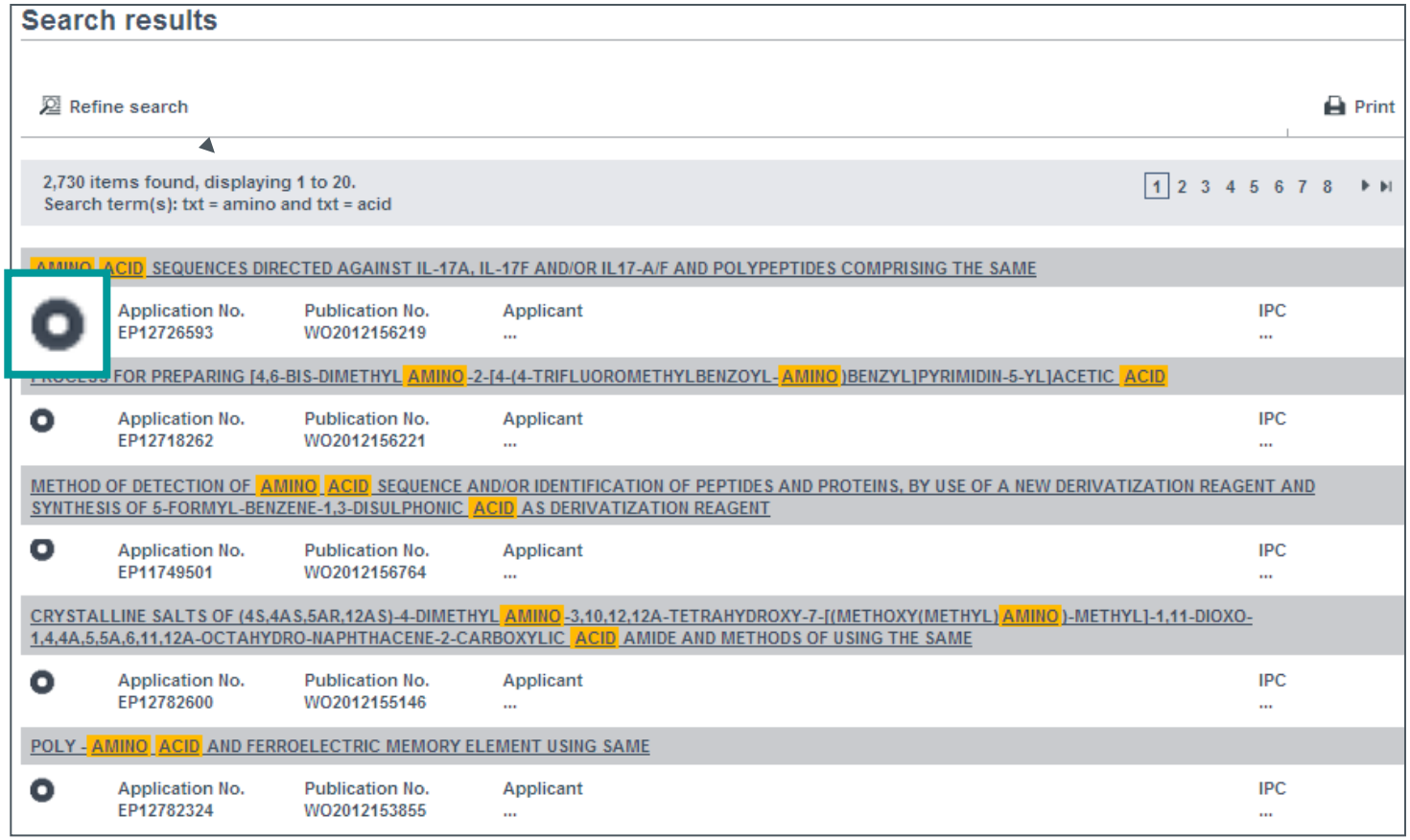
Changing your Register Alert password



Monitored applications in Register Alert

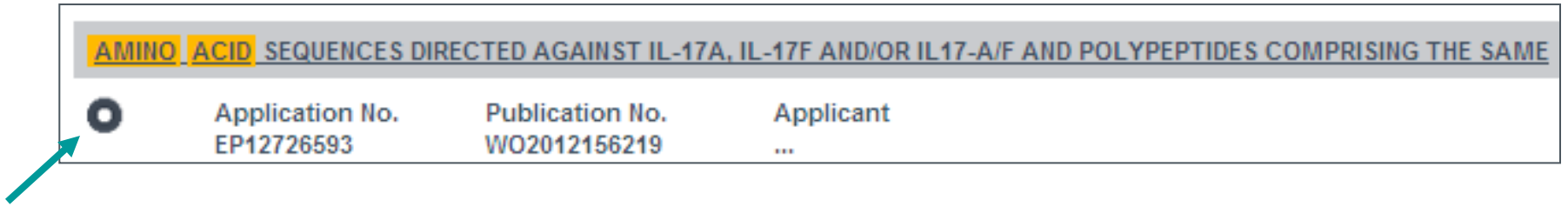


Selecting applications to monitor in Register Alert (I)



You have to be logged in

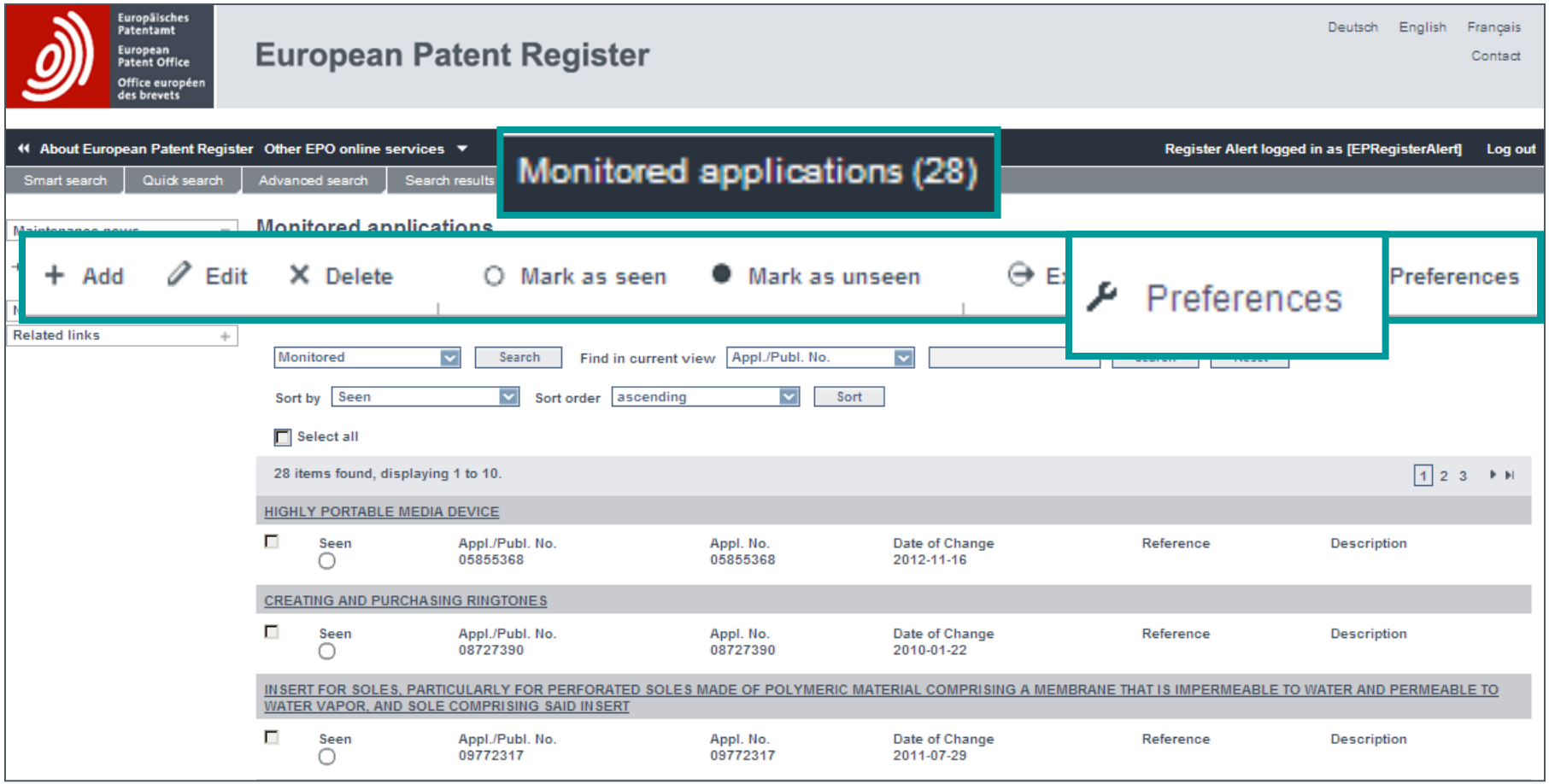
Selecting applications to monitor in Register Alert (II)



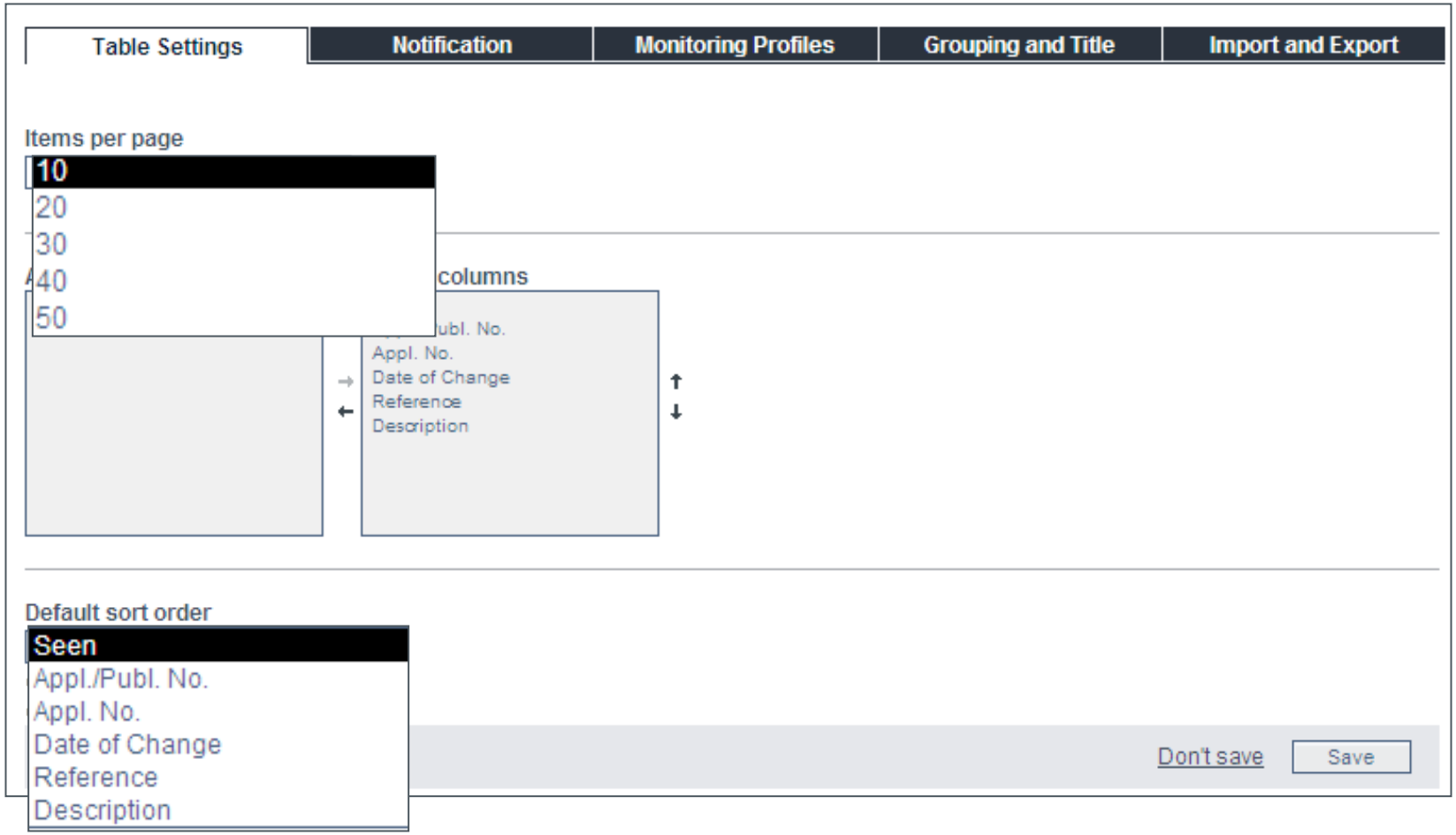
BLACK – NOT MONITORED

GREEN – MONITORED

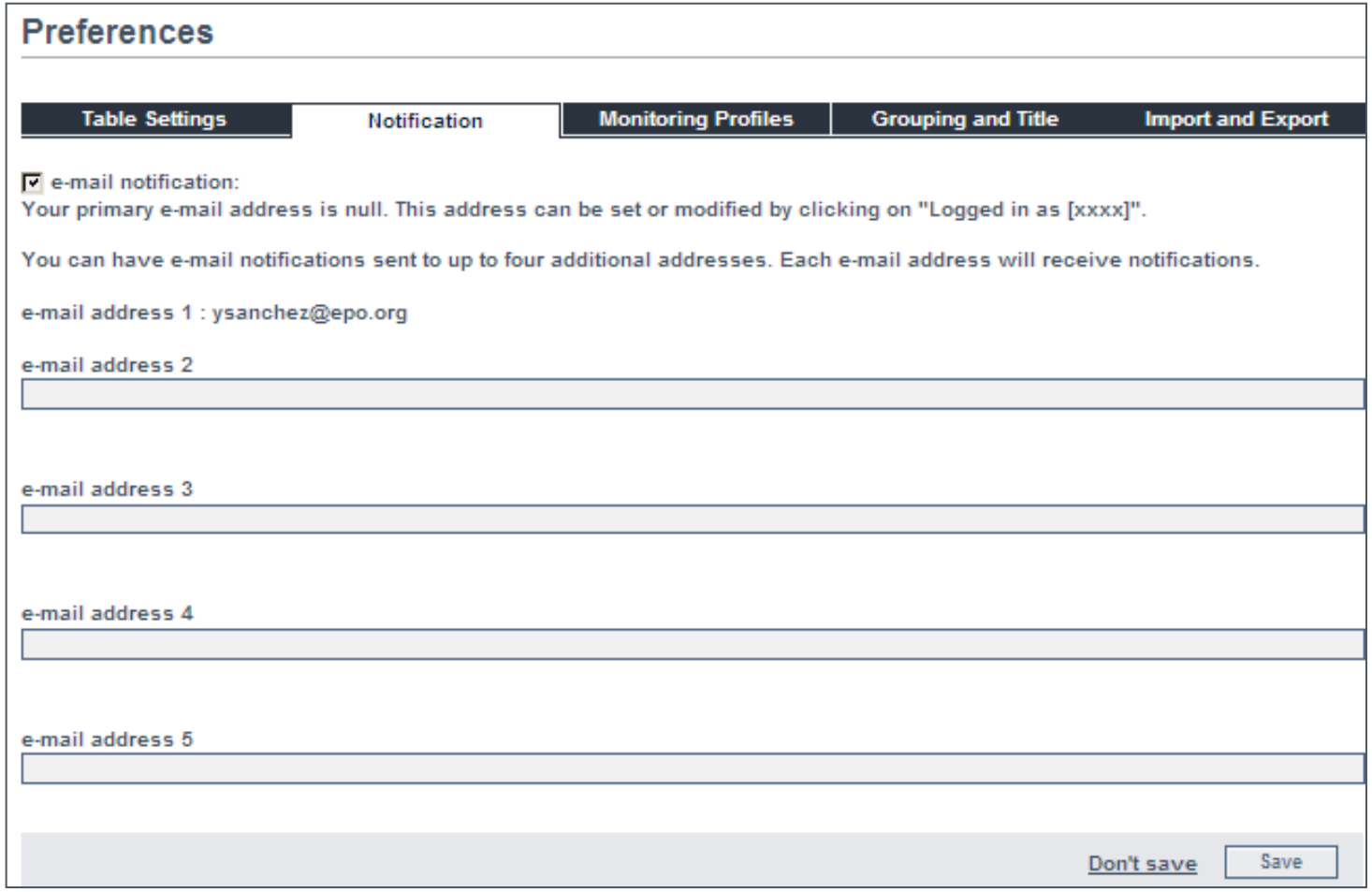
Working with the list of monitored applications in Register Alert



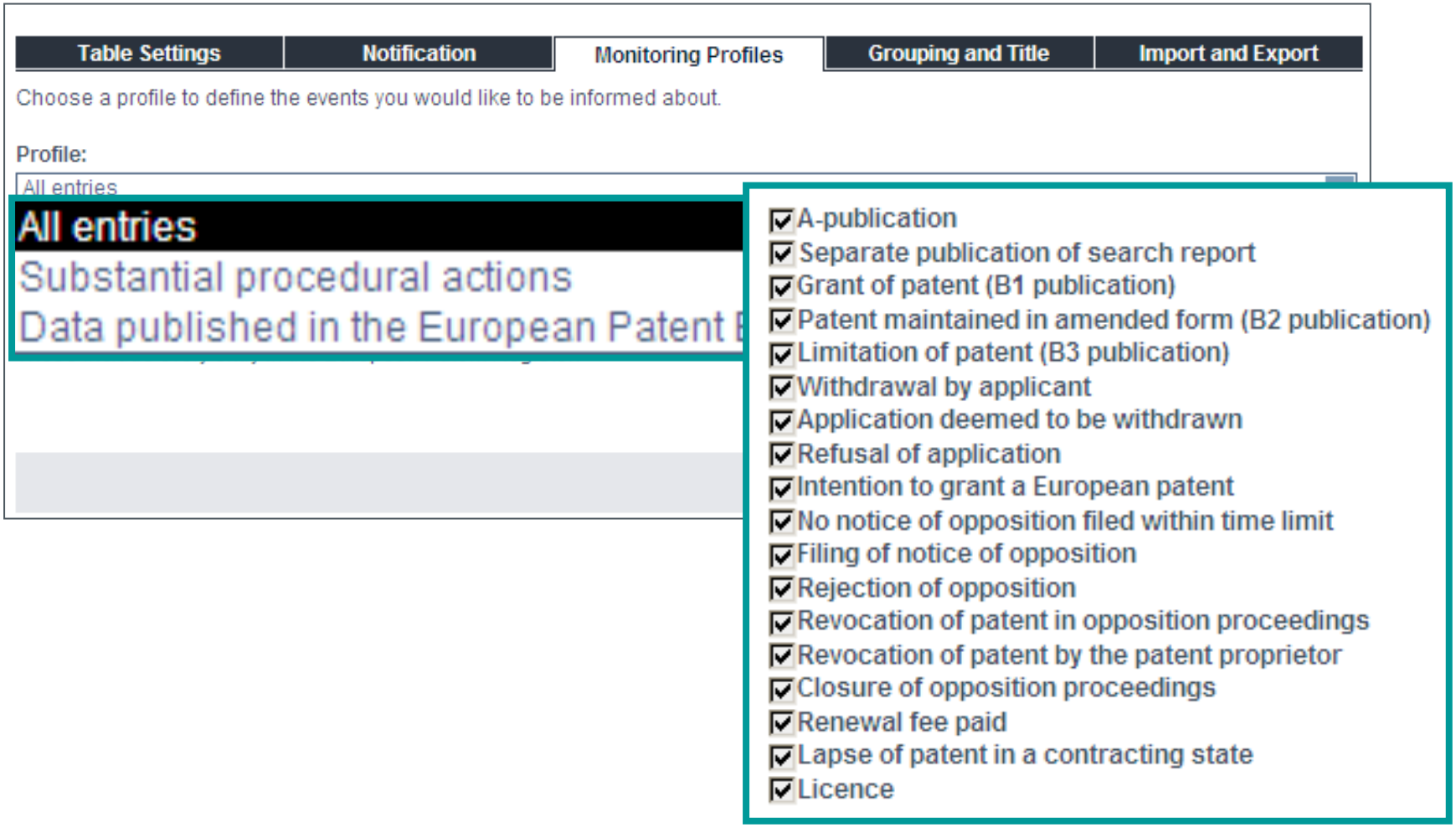
Register Alert preferences – table settings



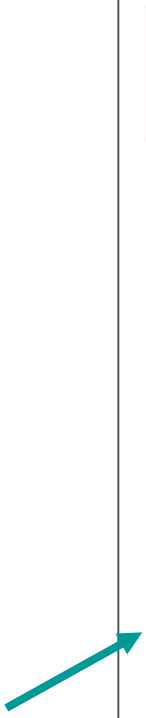
Register Alert preferences – notification



Register Alert preferences – monitoring profiles



Register Alert – notifications



Europäisches Patentamt
European Patent Office
Office européen des brevets

European Patent Register - Monitored Applications

Dear subscriber,
This message is to inform you that a change has occurred in respect of one or more items on the list of applications monitored by European Patent Register To see the latest Online European Patent Register data for the application(s) concerned, simply click on the relevant Appl./Publ. No.

INSERT FOR SOLES, PARTICULARLY FOR PERFORATED SOLES MADE OF POLYMERIC MATERIAL COMPRISING A MEMBRANE THAT IS IMPERMEABLE TO WATER AND PERMEABLE TO WATER VAPOR, AND SOLE COMPRISING SAID INSERT

Appl./Publ. No.	Appl. No.	Reference	Date of change	Event
09772317	09772317		2014-06-24	New entry: Renewal fee paid

(The order in which events occurring on the same date are listed has no significance.)

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European Patent Office

www.epo.org

Need help?

- Quick help
- Help files
- Interactive assistant
- support@epo.org

Quick quiz (I)

1. Can you use the European Patent Register to find out whether a patent was (or will be) granted for a European patent application?

2. The European Patent Register is only available from Monday to Friday. True or false?

3. Which type of search option should you use to look for applications from a specific company?

4. How can you get direct access to the legal status of an EP patent in the national phase?

5. Is access to the Register Alert service secure?

6. Can you add files that you want to monitor to your list at any time?

7. Is it possible to set up Register Alert to send messages to more than one e-mail address?

Quick quiz (II)

True or false?

1. The European Patent Office makes all the publicly available procedural and legal status information about European patent applications available via the European Patent Register.

2. You have to pay a fee to use the Register.

3. The Register allows you to see correspondence between the applicant and a number of patent offices.

4. Hyperlinks from the European Patent Register to the national registers let you to find out the legal status of a patent in the national phase quickly and easily.

5. With Register Alert you can monitor a maximum of 100 applications.

EUROPEAN PATENT REGISTER EXERCISES

Exercise 1

Which articles in the European Patent Convention (EPC) cover:

(a) The European Patent Register?

(b) File inspection?

(Clue: look in www.epo.org)

Exercise 2

- How would you devise a search in the European Patent Register to produce a result list of 10-20 recently published European patent applications?
- How would you set up a Register Alert account to monitor all the applications in this list?
- How would you set up the monitoring profile to cover all substantial procedural actions relating to these applications?

Exercise 3

- What would you do to find patent document EP2383063?
- How many deep links are there to national patent office registers?
- Which countries do the registers belong to?

Exercise 4

- Is European patent 925003 still valid in Switzerland? How would you find out?

- How would you add it to your list of monitored applications?

Exercise 5

- What were the designated states when EP0829417 was granted?
- In which countries is EP0829417 still valid?

Exercise 6

- Find patent document EP1147985
- What is the legal status of this European patent application in Spain? France? The United Kingdom? The Netherlands?
- What is the INPADOC legal status of the patent in Austria? Belgium? Switzerland? Denmark? Finland? Luxembourg? Portugal?

Exercise 7

How many opposition procedures are currently running against applications filed by Siemens?

Exercise 8

How many patent applications filed by Boeing are being opposed by Airbus?

Exercise 9

- Find patent document EP0401739.
- What procedure took place?
- Who was the opponent?
- How long after granting was the opposition filed?
- What was the outcome of the opposition?
- What happened afterwards?
- What was the outcome?

Information sources and tools for trade marks and designs

Intellectual Property Teaching Kit

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

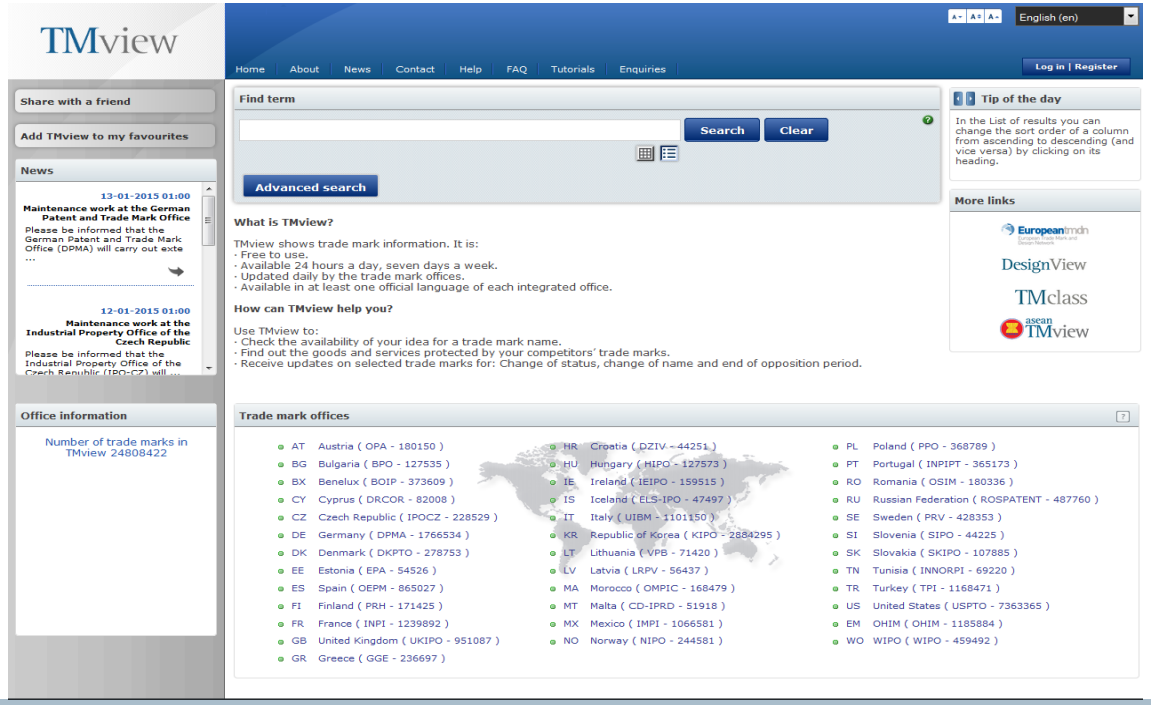
Searching for trade marks

- 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

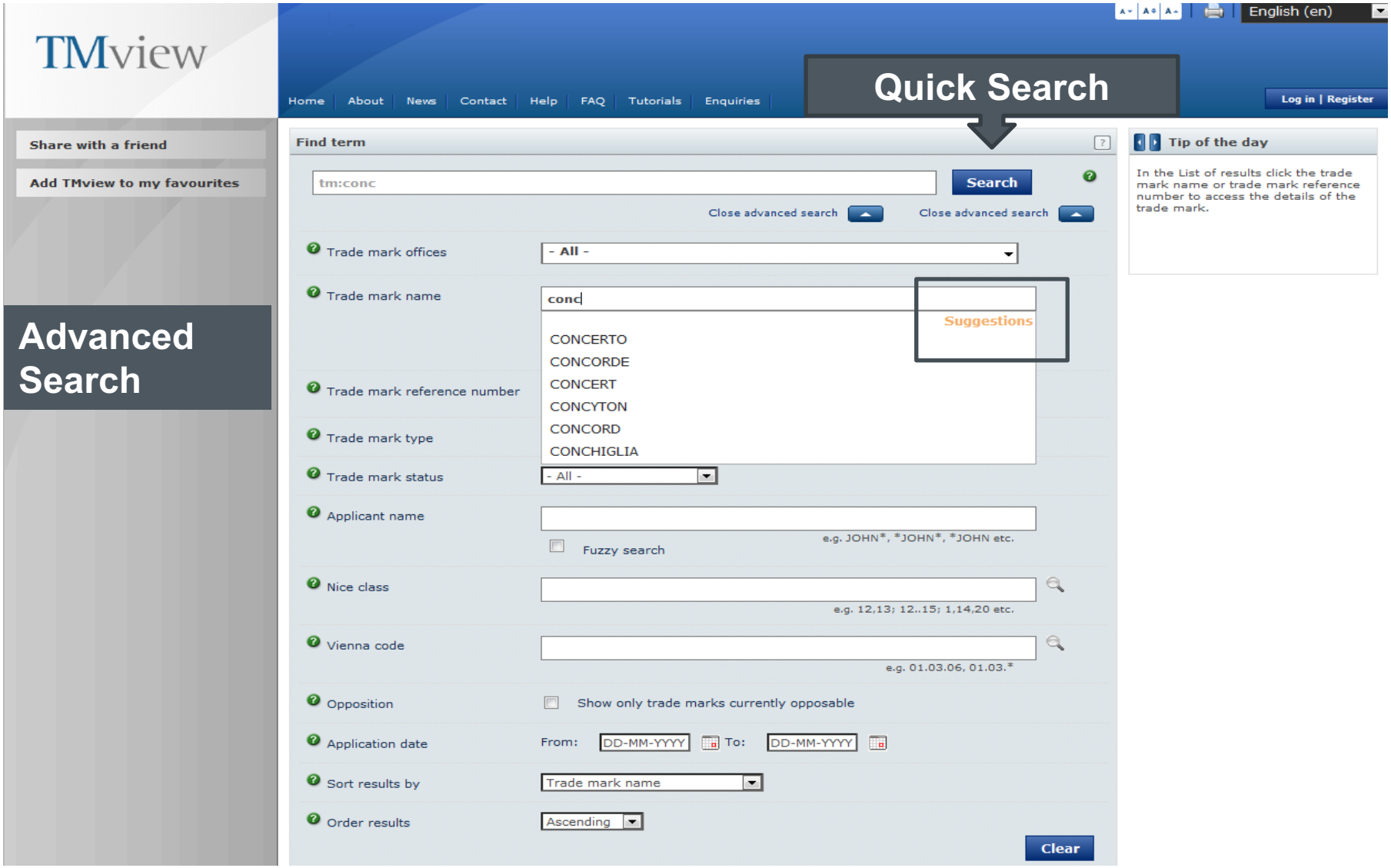
Searching using TMview

- 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



TMview: quick search and advanced search functions



TMview: search results

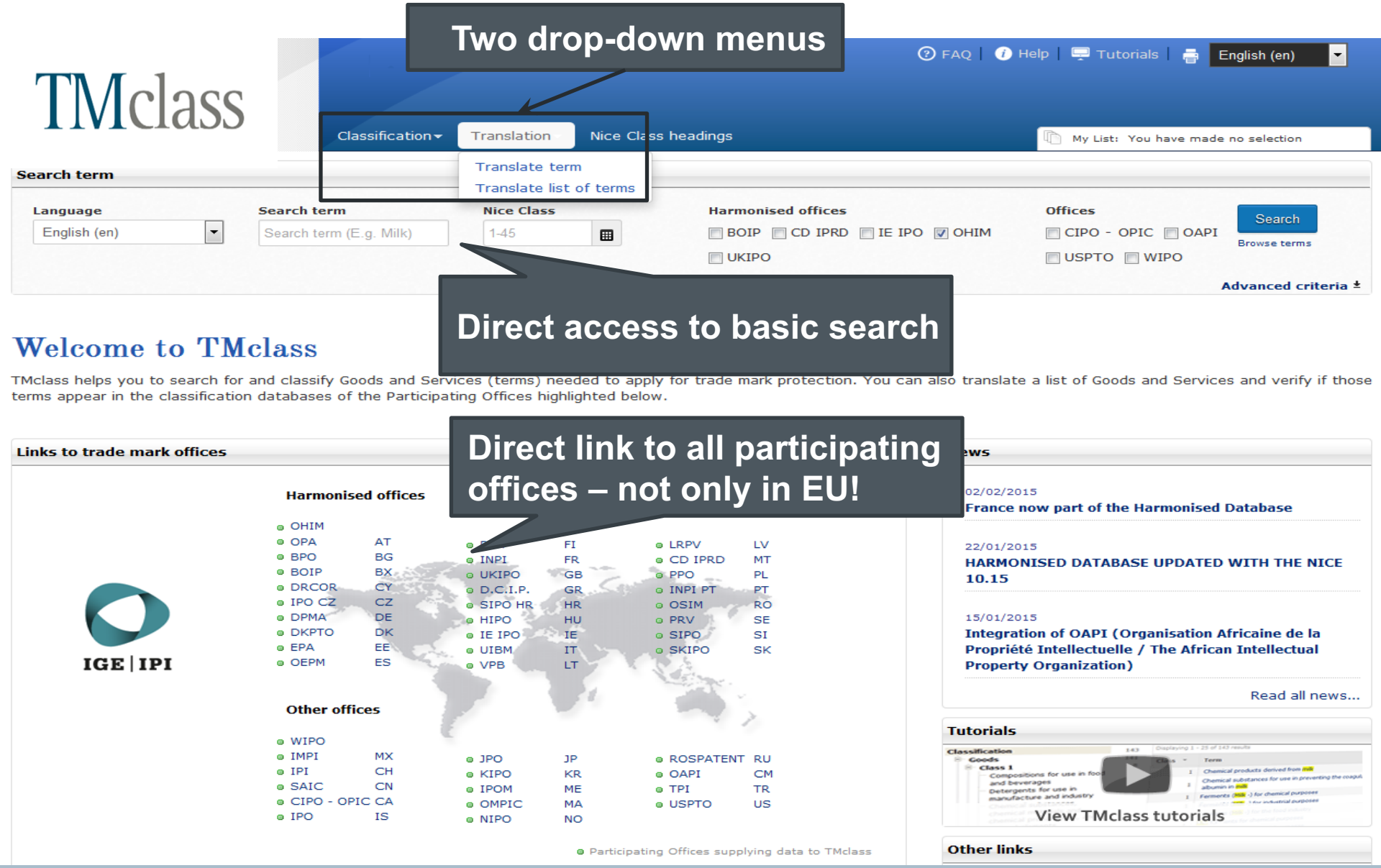
- List of search results
  - add other preferences
- Link to report sheet with all basic facts
- Tab navigation system
- Create alert system
  - receive updates for certain trade marks

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

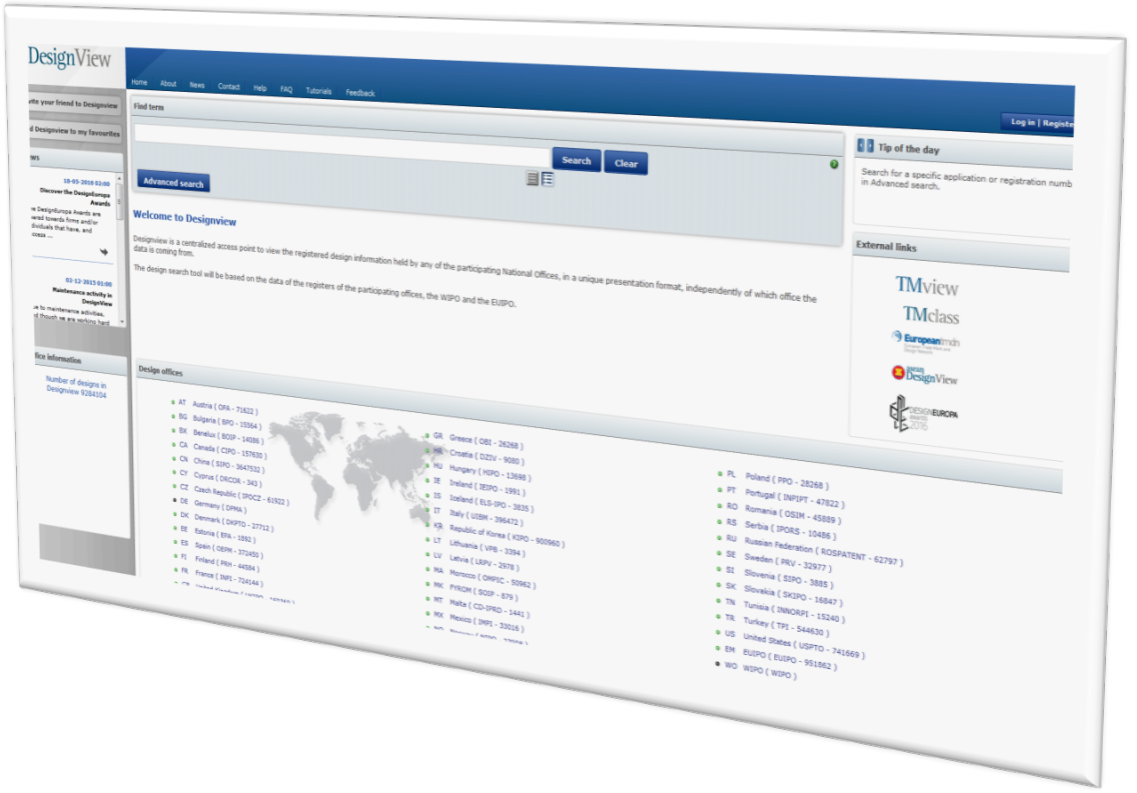


TMclass: main functions

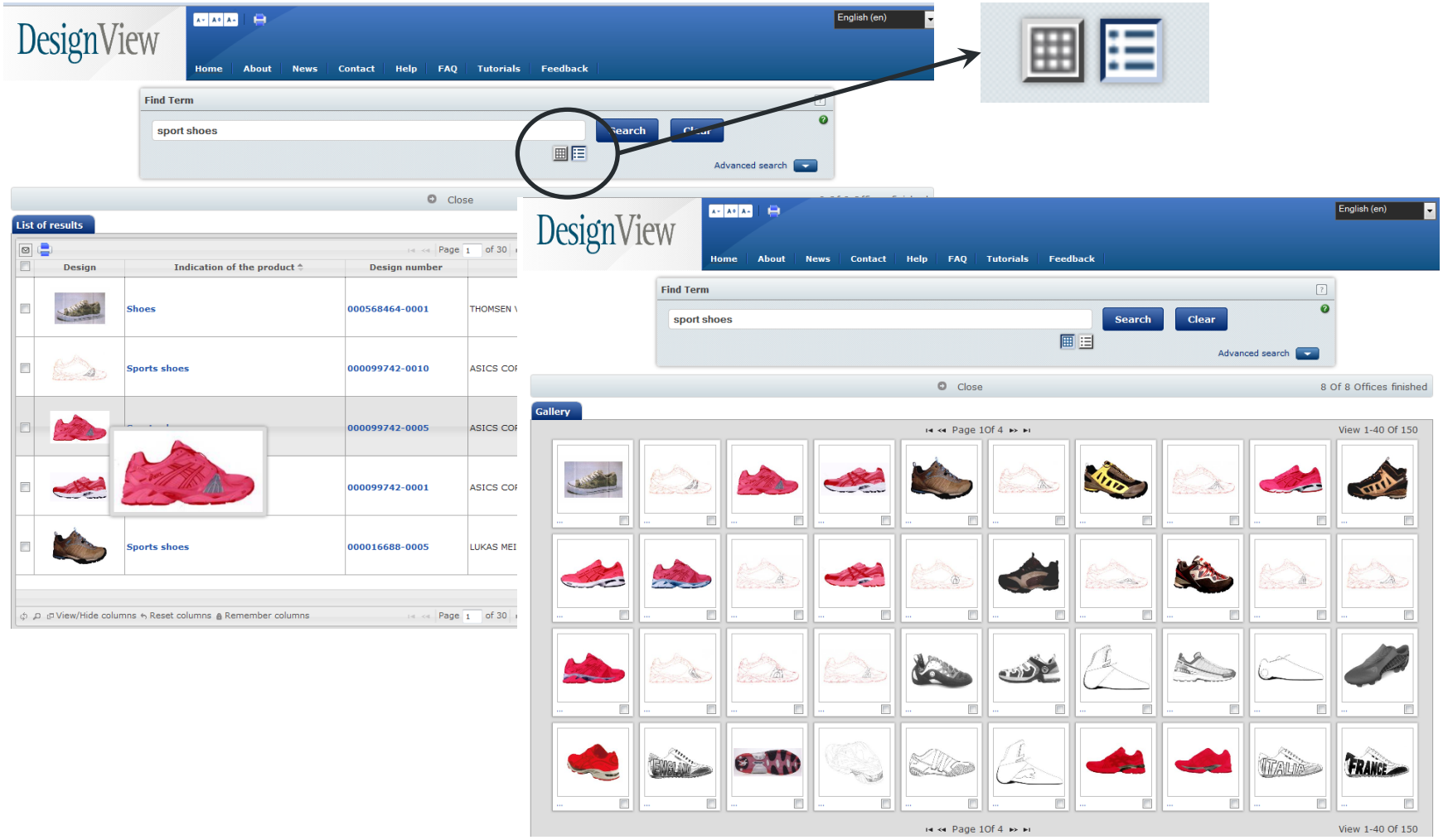
- Search term
- Verify list of terms
- Translate term
- Translate list of terms

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



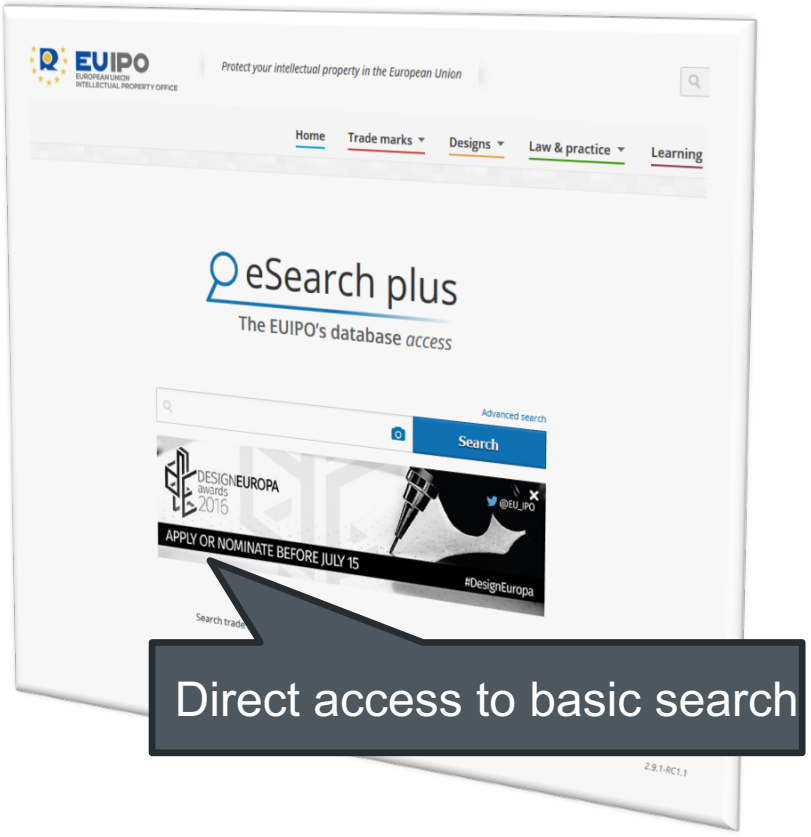
Designview search formats: “List” mode and “Gallery” mode



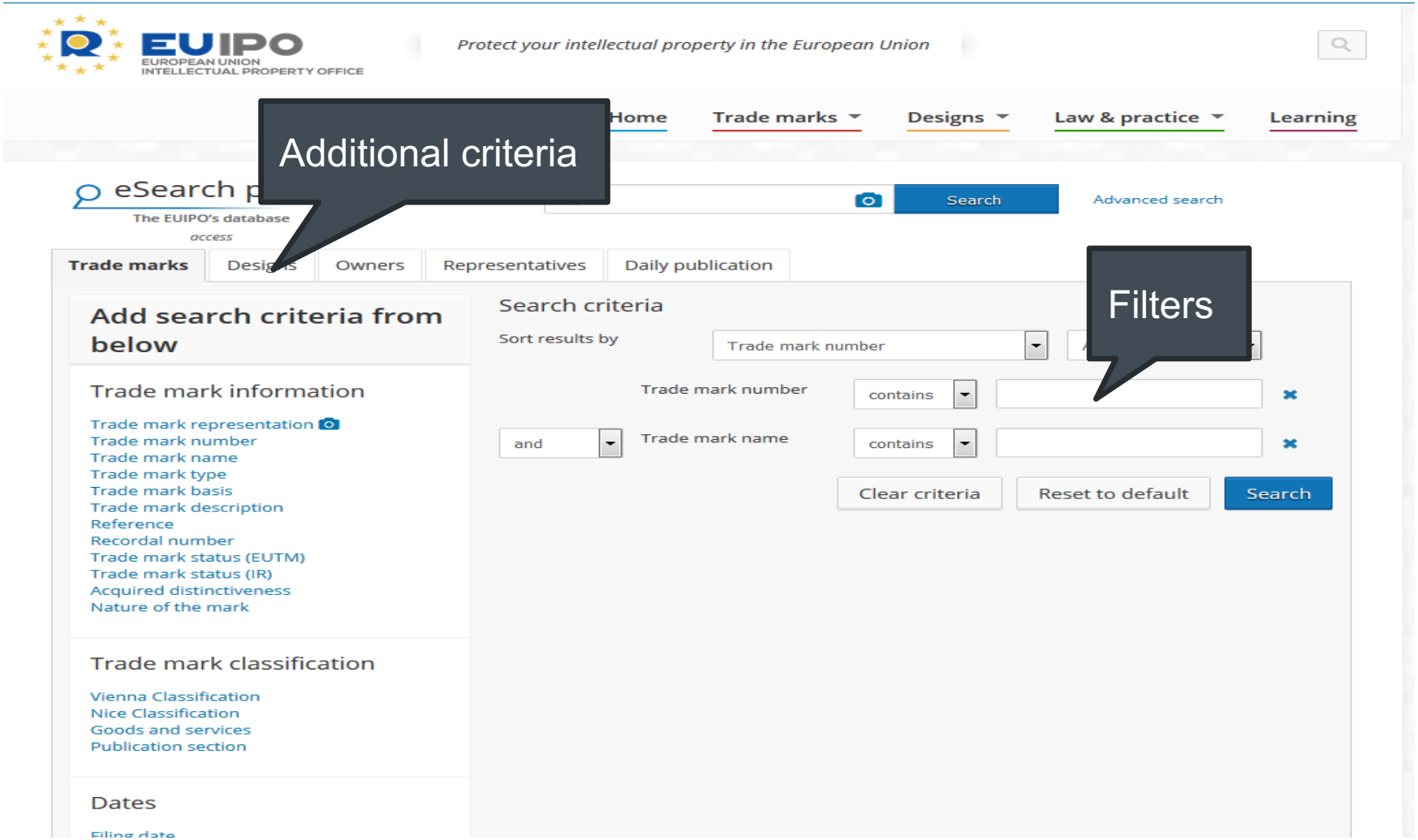
eSearch Plus

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

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



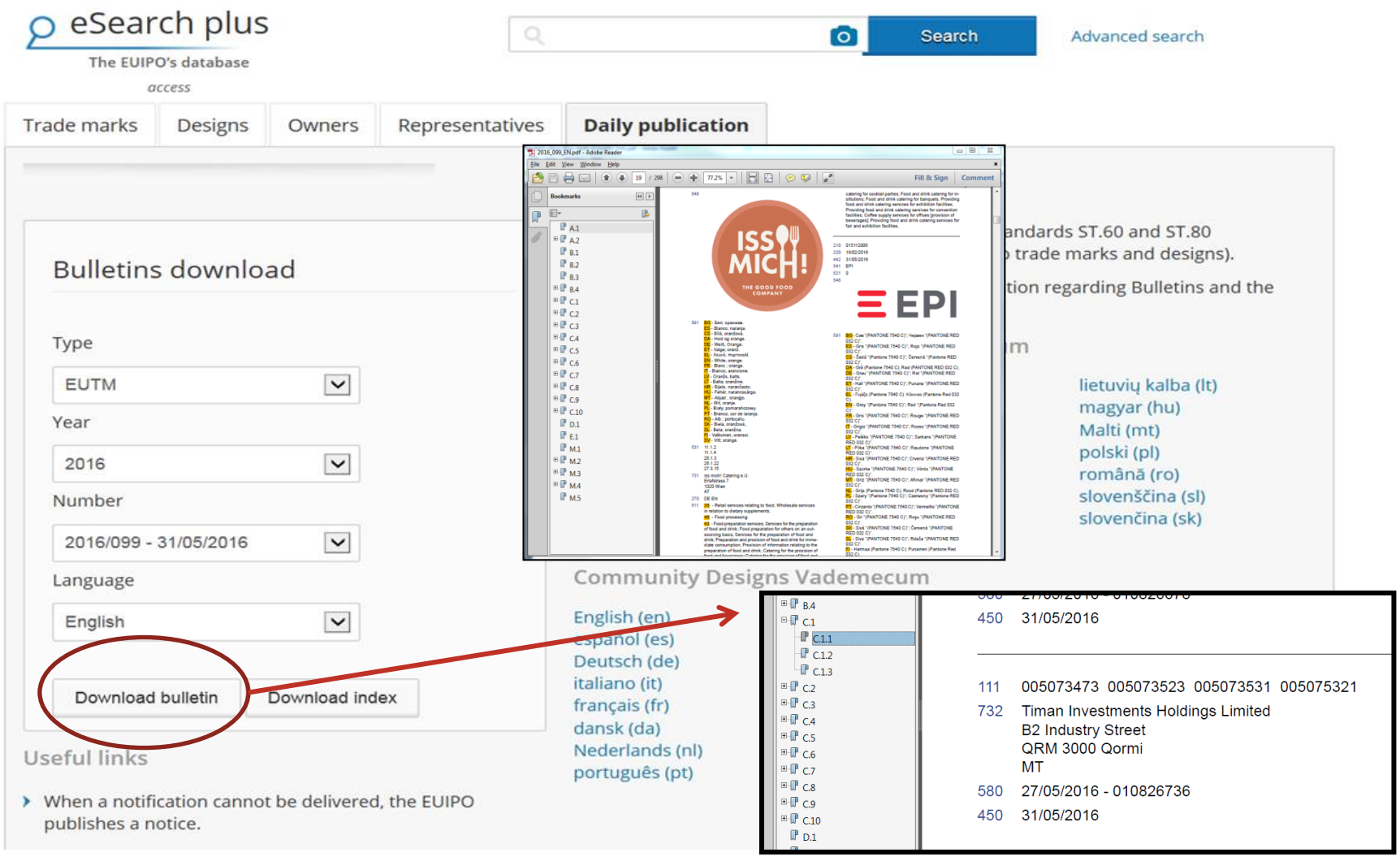
eSearch Plus: advanced search



The 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

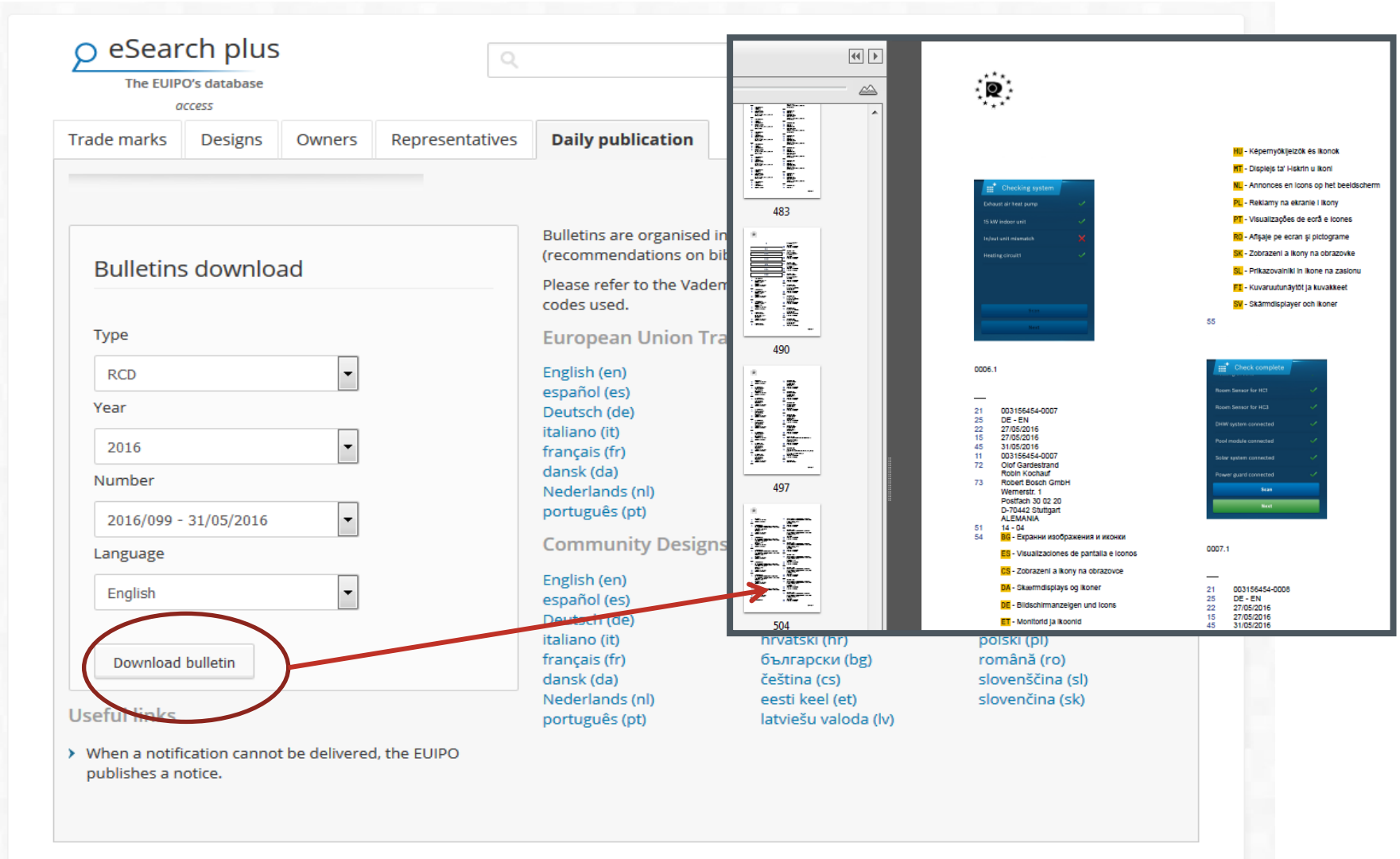
Extract from the eSearch bulletin System



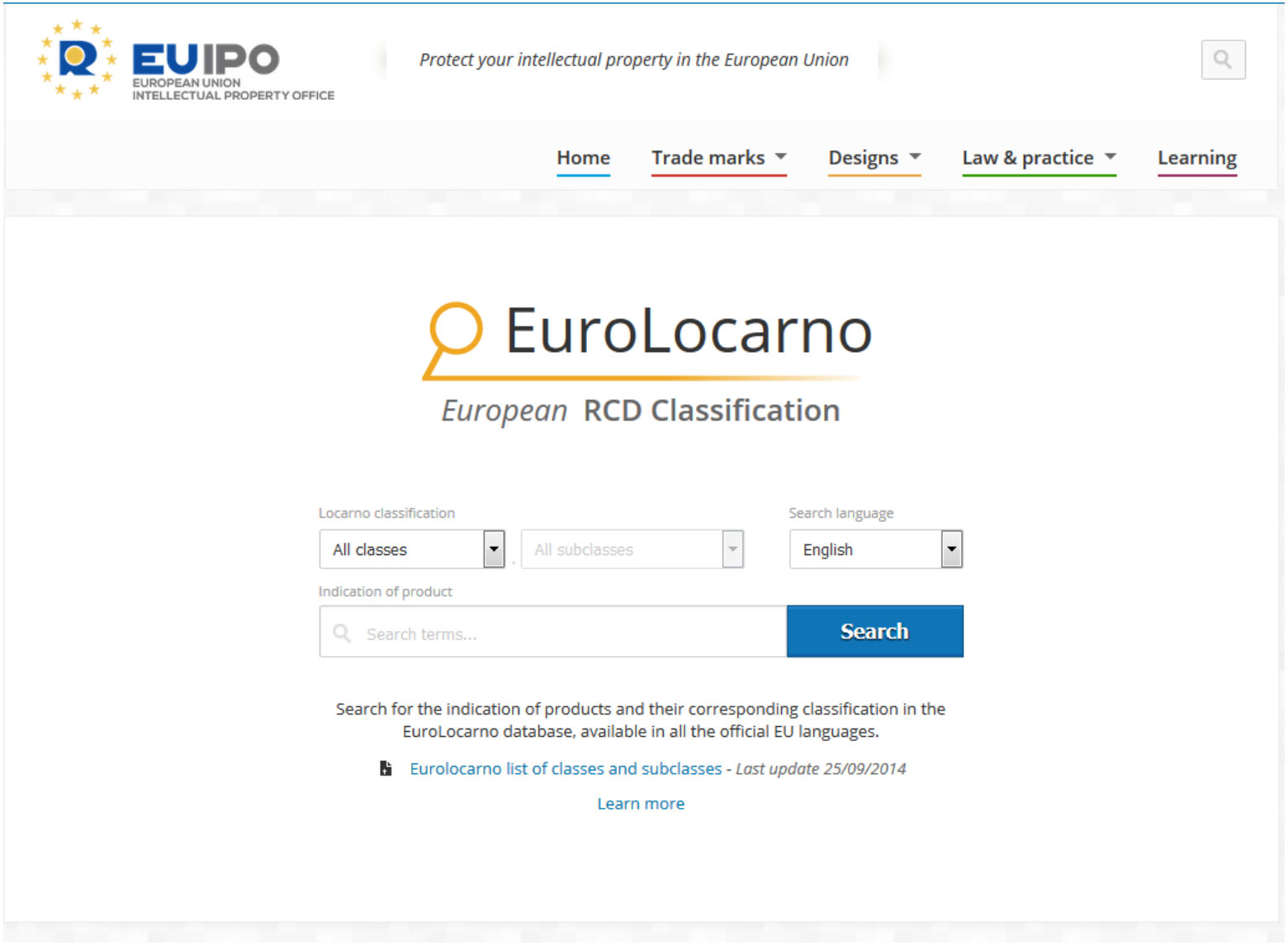
The RCD Register

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

Extract from the eSearch plus Designs Bulletin



EuroLocarno



eSearch Case Law