



Espacenet Resource Book

User documentation and online help

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Concepts

A concept topic provides background information about the overall goal of the application and provides technical and legal information. Concepts cover all kinds of knowledge beyond the scope of instructions for using the application.

Concept topics are especially important for users who are new to patent research in general. The topic title should clearly reflect that this information is not necessary for experienced users, so these can skip the concepts and concentrate on tasks and references.

Espacenet – patent search worldwide

Espacenet is a free internet service provided by the European Patent Office (EPO) and the European Commission, as well as a number of national and regional patent offices. Espacenet offers access to patent documents from all over the world – most of them patent applications rather than granted patents. Patent applications normally represent the first publication of a new idea, appearing ahead of journal articles and before new products reach the market.

The EPO endeavours to offer the general public the best possible access to its data resources. Espacenet offers access to the same patent database as is used by EPO examiners. Some of the information contained in Espacenet reaches as far back as 1836.

In Espacenet you will find:

- more than 100 million patent documents from over 90 countries
- links to the European Patent Register for European patent applications and Euro-PCT documents
- links to selected national patent registers for national patent documents
- links to the Global Dossier for patent documents from the patent offices of China, Japan, Korea, USA, Canada and the World Intellectual Property Organization (WIPO)
- legal status information, helping you find out whether protection rights exist and in which countries a patent is in force
- patent family information, telling you if similar patent applications have been filed in other countries
- references to other kinds of technical literature (non-patent literature)
- citations, listing other documents that are cited by the patent document you are currently viewing or that cite the same patent document

Benefits of searching in Espacenet

Espacenet is directed towards anyone with an interest in technology, innovation and intellectual property.

You can use Espacenet to:

- get an overview of the state of the art
- get information on the latest technological developments
- find solutions to your technical problems
- search for inventions you are already aware of
- discover who invented what or who has filed a patent application
- find out what technological developments your competitors are working on
- machine-translate patent documents using the Patent Translate feature.

Espacenet is not intended for exhaustive patent research or establishing the state of the art in its entirety. If reliable and extensive research is required as the basis for major investment, the professional help of patent search experts should always be sought.

Patents and inventions

A patent is a legal title which protects a technical invention for a limited period. It gives the owner the right to prevent others from exploiting the invention in the countries for which it has been granted. All patents are published, so everyone can benefit from the information they contain.

Patent applicants must disclose in detail how their invention functions. There are not many types of literature that describe technologies as precisely as patent documents do.

An invention can, for example, be a product, a process or an apparatus. To be patentable, it must be new, industrially applicable and involve an inventive step.

Patent documents

Patent documents are documents published by patent offices that contain information about inventions for which a patent application has been filed or granted, or for which a utility model has been registered.

Each year, more than a million patent documents, based on approximately half as many inventions, are published worldwide. Only a small number of inventions are described in sources other than patent documents. This makes the information in these documents invaluable for an understanding of the status of both technology and innovation processes.

Patent documents mainly consist of patent applications and granted patents, along with the search reports, amendments to these documents, and translations. The type of publication is indicated by a code affixed to the document number.

Patent documents consist of:

- a first page comprising basic information such as the title of the invention and the name of the inventor
- a detailed description of the invention indicating how it is constructed, how it is used and what benefits it brings compared with what already exists
- claims containing a clear and concise definition of what the patent legally protects
- drawings

Non-patent literature

In addition to patent literature, the EPO's search documentation includes any other printed or non-printed material that may be technically relevant for the patent grant procedure. This documentation is called non-patent literature.

Non-patent literature can be an important source of information on the state of the art. It primarily consists of articles from scientific magazines, conference reports, books, internet pages, etc. The latest developments emerging from scientific publications and conferences are usually found in these sources first. This is especially true for research results from universities or scientists, who often tend to publish their results in scientific publications or within the context of conferences and do not necessarily protect their inventions with patents.

Patent classification

Patent classification is a system of sorting inventions and their documents into technical fields covering all areas of technology.

Every patent document, regardless of whether it is an application or a granted patent, is given a classification symbol by the examiner indicating its allocation to a specific area of technology.

Benefits of patent classification

Patent classification systems make it easier to file and retrieve patent documents.

When performing searches, patent examiners, inventors and companies need to obtain results that are as accurate as possible. State-of-the-art searches would be virtually impossible without classification, because searching with keywords can often produce inaccurate and incomplete results due to the language in which patent documents are written and the terms used.

Classification systems

Patent documents are classified according to different classification systems depending on the patent granting authority concerned.

The most important classification system is the ***International Patent Classification system (IPC)***. Introduced in 1968, the IPC is used by all patent offices worldwide, some of which also use a national classification system.

The ***Cooperative Patent Classification system (CPC)*** is an extension of the IPC and is used by the European Patent Office (EPO), the United States Patent and Trademark Office (USPTO) and a few other national offices. The CPC entered into force on 1 January 2013 and replaces the European Patent Classification (ECLA) and the US Patent Classification (USPC).

CPC symbols are allocated to patent applications in order to make the classification more exact and therefore simpler to use. The CPC subgroups are added to the IPC symbol. While the IPC has 70 000 entries, the CPC has more than 250 000, making it much more precise.

Classification scheme updates

The IPC is updated every year on 1 January. After each update, all patent documents – except for historical documents – are reclassified. A patent document in Espacenet may therefore contain legacy classification symbols, which are enclosed in parentheses.

Like the IPC, the CPC is also continually brought into line with advances in technology and updated as required. When the CPC changes, all patent documents are also reclassified in accordance with the new system. This means that there is only ever one single version of the CPC: the one currently in effect.

Whenever there are changes to the CPC classification scheme, you will be informed of the updates on the EPO website.

The International Patent Classification (IPC) system

Introduced in 1968, the IPC is used by all patent offices worldwide, some of which also use a national classification system. The IPC has a hierarchical structure and is subdivided into sections, classes, subclasses, groups and subgroups. One of the most precise classification systems available, the IPC currently divides technology into around 70 000 sub-areas.

Areas of technology

In the IPC, technology is divided into eight main sections:

- A Human Necessities
- B Performing Operations; Transporting
- C Chemistry; Metallurgy
- D Textiles; Paper
- E Fixed Constructions
- F Mechanical Engineering; Lighting; Heating; Weapons; Blasting Engines or Pumps
- G Physics
- H Electricity

IPC divisions

The IPC has a systematic and hierarchical structure. Classification becomes more detailed with every further (sub)division, as you can see in this example:

Level	Symbol	Description
Section	A	Human necessities
Class	A21	Baking; edible doughs
Subclass	A21C	Machines or equipment for processing doughs
Group	A21C1	Mixing or kneading machine for the preparation of dough
Subgroup	A21C1/06	With horizontally-mounted mixing or kneading tools

Visit the WIPO website to find more information about the IPC:

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

For the text of the IPC and related documentation, visit the IPC page on the WIPO website:

<http://web2.wipo.int/ipcpub>

http://www.wipo.int/export/sites/www/classifications/ipc/en/guide/guide_ipc.pdf

The Cooperative Patent Classification (CPC) system

The Cooperative Patent Classification (CPC) system, in force from 1 January 2013, is a bilateral system which has been jointly developed by the EPO and the USPTO. The CPC is subject to ongoing review by both offices, and documents are reclassified accordingly. CPC is designed for efficient searching – an important aspect for users of patent information.

The CPC is the EPO's main classification scheme. When the CPC superseded the ECLA in January 2013, the ECLA and ICO schemes were flattened into one scheme. All the breakdown and orthogonal codes were migrated to the **2000 series**, by adding 2000 to the original main group digits.

The CPC is based on the IPC and consists of:

- all IPC symbols
- a main trunk of CPC symbols
- a 2000 series of indexing codes for additional information

The CPC includes the same sections as the IPC plus a **Y section** for tagging emerging technologies or technologies spanning several sections of the CPC. When a new patent document is to be allocated a CPC symbol, it is sent to the appropriate examiner. Regardless of whether the document already has an IPC symbol and where it comes from, the examiner assigns it to one or more CPC classes. The CPC symbol is an extension to the IPC symbol which further classifies the patent document into a specialised category. It is estimated that 90% of the documents requiring a CPC classification will receive one within eight months after publication.

For more information, including concordance tables, CPC definitions and news, visit the CPC website, which is jointly hosted by the EPO and the USPTO:

<http://www.cooperativepatentclassification.org>

<http://www.cooperativepatentclassification.org/cpcSchemeAndDefinitions.html>

Patent families

Patents are industrial property rights that provide protection in a certain country or countries. Inventions are frequently the subject of patent applications in several different national or regional patent offices or with the World Intellectual Property Organization (WIPO).

Family members and priorities

Where there are several applications or publications for an individual invention (in other countries) claiming the same priority or priorities, we talk about a "patent family". All of these "family members" have priority numbers with associated priority dates in common, in other words, they are related to one another by one or more priority applications.

Applications filed in other countries or languages

Patent applications are often filed in more than one country. You can find out if further applications have been filed in other countries by viewing the patent family of the relevant patent application.

This will tell you the countries in which patent applications were filed and published, which in turn will enable you to monitor the international market in your line of business, keep an eye on the worldwide situation and be aware of innovations and changes.

Patent families can also help to find another language version of a patent document.

Patent families in the European Patent Register

There are various definitions of what constitutes a patent family. However, the differences only become obvious when the structure of a patent application is complex.

Complex structures occur when patent applications are filed in several different countries. In applications of this kind, various earlier applications are often cited as priorities. Moreover, different claims may be accepted or rejected by the various patent offices during the granting process. This then results in patents with different scopes of protection.

In the European Patent Register a patent family is defined as comprising all the documents sharing – directly or indirectly (e.g. via a third document) – at least one priority. This includes all the patent documents resulting from a patent application submitted to a patent office as a first filing and from the same patent application filed within the priority year with a patent office in any other country.

Patent families in Espacenet

In Espacenet, this broad definition of a patent family would be called an INPADOC family. At the same time, a patent family defined as comprising all documents having exactly the same priority or combination of priorities is called a "simple family".

Equivalents are members of a (simple) patent family, which means that they have exactly the same priorities.

In Espacenet, on the other hand, a patent family is defined as comprising all the documents having exactly the same priority or combination of priorities (simple family). However, deeper analysis of certain patent documents might lead to specific priorities being declared "non-active". In other words, these specific priorities are ignored in the building of simple families.

The INPADOC database

The EPO's INPADOC database is a collection of bibliographical data from patent documents, i.e. patent applications and granted patents, and the legal status of these documents. The INPADOC database may also include some procedural information and statements of payments of renewal fees.

Like many other databases, the European Patent Register has to rely on the correctness of the data supplied by third parties – in this case the co-operating patent offices – and on the extent to which that data is up to date. In particular, delays in the delivery of bibliographic or legal status data can vary significantly depending on the country concerned and the time period covered.

To be absolutely sure about the actual status of a patent, we recommend that you contact the relevant patent office or authority direct.

The worldwide patent database

The worldwide database offers you the possibility to search for published patent applications from over 90 patent-granting authorities. However, the EPO relies on the data contributed by the patent-granting authorities and therefore cannot guarantee that the data in Espacenet is complete.

PCT minimum documentation

The worldwide database is based on the PCT minimum documentation, which is defined by WIPO as the minimum requirement for patent collections that are used to search for prior-art documents for the purpose of assessing novelty and inventiveness. More information about the PCT minimum documentation can be found on the WIPO website:

<http://www.wipo.int/pct/en/texts/rules/r34.htm>

The EPO has expanded the coverage of its database far beyond the PCT minimum documentation to include data from other countries and earlier time periods. Moreover, additional information, such as CPC symbols and references to cited documents, is added by EPO examiners in the course of their work.

Availability of the PCT minimum documentation in the worldwide database

Country	Facsimiles from	Abstracts from	Cooperative Patent Classification (CPC)
CH	1888, from CH1 onwards	1970	1888
DE	1877, from DE1 onwards	1970	1877, from DE1 onwards
EP	1978, from EP1 onwards	1978	1978
FR	1900	1970	1902
GB	1859	1893	1859
US	1836, from US1 onwards	1970	1836, from US1 onwards
WO	1978	1978	1978

Latest updates to the database

You will find up-to-date information on the EPO website.

Latest bibliographic coverage:

<http://www.epo.org/searching-for-patents/helpful-resources/raw-data/data/patent-additions.html>

Latest full-text coverage:

<http://www.epo.org/searching-for-patents/helpful-resources/raw-data/data/full-text-additions.html>

Both lists are updated daily.

Updates to the database

The EPO's databases are updated daily. Data is added to the database as soon as possible after it is received from the national patent-granting authorities.

For more information on the data content of the database, please see the EPO website under ***Information on EPO data***:

<http://www.epo.org/searching-for-patents/helpful-resources/data.html>

Availability of searchable data in the database

Documents enter the database with the following searchable fields: application number, priority number, publication number, publication date, inventor, applicant and International Patent Classification (IPC).

The Cooperative Patent Classification (CPC) assigned by EPO examiners is usually available a few months after the publication date. This means that you should not search with CPC symbols if you are targeting recently published documents.

For abstracts which are not in English, the English translations are normally loaded approximately one month after the publication date, depending on availability and delivery from the national offices and patent-granting authorities.

Deduplication

There is one important thing Espacenet does while you are paging through the search results: It constantly tries to improve the search result by removing “duplicates” of the same entries from the result list and grouping these equivalent items together – i.e. it will aggregate results that belong to the same patent family. That way, you will find the results for a specific patent family in one place instead of scattered across the whole result list.

This process of improving the search result by removing duplicates and grouping equivalent items is called **deduplication**. Deduplication guarantees that if you have singled out a specific result that best suits your needs, you need not bother looking for equivalent entries in the remaining result list. Deduplication thus also ensures that distinct results are, in fact, really different.

Espacenet can however only apply deduplication while serving you with the details of a result as you iterate over the pages of the result list, modifying the result list while you are paging through it. At the same time, this means that the total count of results is merely an estimate, which is indicated by the word **Approximately** before the given number. It is only when you reach the end of the result list that the exact number of results – each representing a patent family – is known. The word **Approximately** will disappear and, for a given result list, the number of hits will no longer change.

The IP language – how to say it in Espacenet

Even if it sounds trivial, before you start searching you should consider how to formulate your keywords appropriately. When choosing keywords, you should pay attention to every minor detail, including the way you spell them. Especially in English, the same thing can be described with various different words, and various different spellings are permitted.

Here are some basic rules for how to find the right keywords.

Avoid frequently used words

The word **device**, for example, can refer to a **unit**, **apparatus**, **component**, **instrument**, etc., which means that you will get a vast number of results if you use it in your search.

Think about results

Always first think thoroughly about what you want to search for, e.g. **headphone for a mobile telephone** or **CD player**.

Use synonyms

Instead of just searching for **headphone**, use more concrete terms such as **ear**, **ear plug** and **wireless**.

You should always consider the fact that the applicant or translator may have used other expressions or spellings. A **headphone** could also be called **earphone**, **headset** or even **listening device**, or may also be found with **head-phone**, **head phone**, **ear-phone**, **ear phone**, **head-set** and **head set**. Plural forms, such as **ear plugs**, should also be taken into consideration.

Add more terms to your query

Using the appropriate operator is important when you combine multiple terms into a search query.

- **AND** is used to narrow down search results.

The more terms related to the desired patent you enter, the more accurate the result of the search will be. However, you should take care not to enter too many search terms. This could narrow down your list of results too much and spoil your chances of finding other information which may not contain one of the keywords.

- **OR** is used to extend search results.

If it is unclear how a term is spelt, you should carry out a search for both variations: as one word and as separate words.

Example

Did you know that ...

- a **disposable dental device** can be a **toothpick**?
- a **receptacle for cooling liquid foods** can be a **thermos flask**?

Would you have thought of that? If you enter **toothpick** or **thermos flask** as search terms, Espacenet will of course retrieve a number of results for these queries. However, with these terms you exclude documents in which the invention is described with different words.

For the same reason you would not search for **flashlight** and **torch** at the same time, since both words describe the same thing. It is highly unlikely that the word **flashlight** will come up in a title that also contains the word **torch**, so you should avoid combining words with identical or very similar meaning.

Limitations

Keywords with more than one meaning are not evaluated by the search engine. This means that the word **coat**, for example, could refer to both an item of clothing and a layer of paint.

Synonyms and specialist terms are not taken into account. It may be necessary to carry out several searches using the various different terms.

The European Patent Register

The European Patent Register is the place where the European Patent Office stores all the publicly accessible information about European patents and patent applications in the various stages of the grant procedure. You can access all this data in the Register on the Internet at any time.

You can view the procedural data for all European, Euro-PCT and PCT applications as soon as they are published. The Register allows you to find all the publicly accessible documents from the files maintained by the European Patent Office on these patent applications – including oppositions, patent attorney/EPO correspondence and more.

The Register provides for public file inspection and allows you to access the data in Espacenet. You can also follow the links to the patent registers of many of the member states of the European Patent Organisation to see the status of granted European patents after they have entered the national phase.

The European Patent Register is a publicly available service and free of charge. You can also inspect paper copies of the files upon request. However, this will take at least four weeks and you will have to pay an administrative fee.

The World Intellectual Property Organization (WIPO)

The World Intellectual Property Organization (WIPO) is one of the 16 specialised agencies of the United Nations system of international organisations. Its headquarters are in Geneva, Switzerland.

WIPO is responsible for:

- the promotion of the protection of intellectual property throughout the world through co-operation among states.
- the administration of various multilateral treaties dealing with the legal and administrative aspects of intellectual property.
- the administration of the Patent Cooperation Treaty (PCT) and PCT patent applications.

For more information, visit the WIPO website:

<http://www.wipo.int/about-wipo/en/index.html>

Patent information centres (PATLIB)

PATLIB (PATent LIBrary) centres provide users with access to patent information and related services in the language of the country where the centre is located.

In PATLIB centres, qualified and experienced staff can offer practical assistance on a variety of intellectual property rights. Familiar with the needs and requirements of local trade, commerce and industry, PATLIB centres provide a valuable service to small and medium-sized enterprises, private inventors and academics in particular.

For more information and a list of PATLIB centres visit the EPO website:

<http://www.epo.org/searching/patlib/directory.html>

Tasks

A task topic provides step-by-step instructions to the user and focusses on helping to achieve a specific goal. The task's context and preconditions (if any) are explained briefly. Examples are used to explain the possible options for performing the task. The task ends with a description of the result to be expected.

A task topic is clearly user-oriented. The task's title should reflect a common goal which a user might have in mind when moving around in the application.

Accessing Espacenet

Searching in Espacenet is free of charge and does not require registration. Espacenet can be accessed from all over the world and is available in many languages.

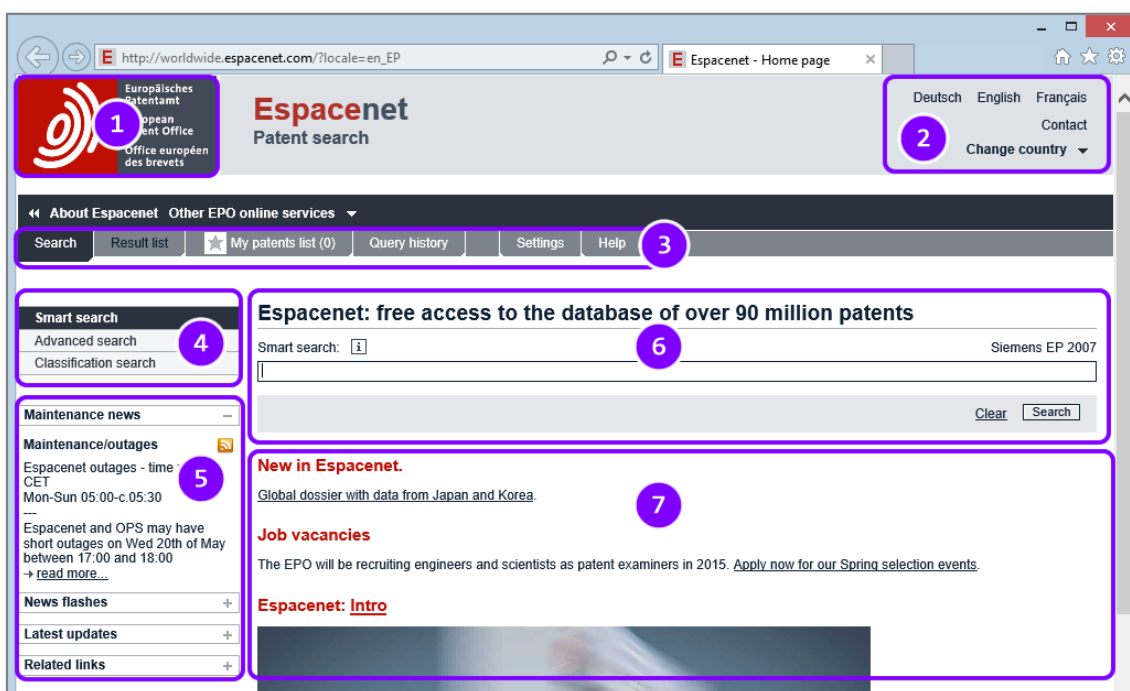
The Espacenet homepage is at <https://worldwide.espacenet.com>. You can either type this address or use the shortcut link www.epo.org/espacenet.

→ Go to www.epo.org/espacenet ..

- ✓ This will redirect you to the **Smart search** screen, from where you can start searching in Espacenet.

The user interface of the Espacenet home page offers the following interactive areas:

- [1] Link to the EPO home page
- [2] Language selection, email to helpdesk, links to Espacenet at the national patent offices
- [3] Main navigation
- [4] Search navigation
- [5] Maintenance news, Espacenet news (e.g. CPC releases), latest updates (list of application numbers) and related links (various information pages)
- [6] Smart search area
- [7] Editorial text and other news from the EPO

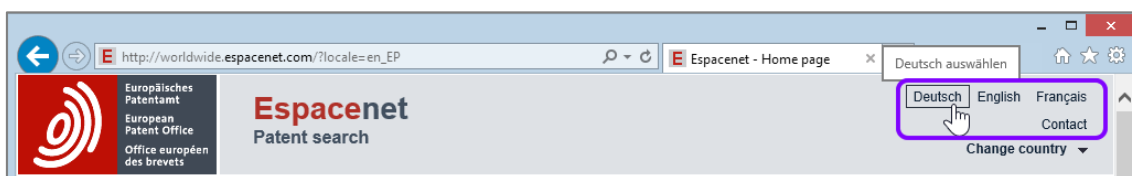


The Espacenet home page displays the Smart search screen

Setting the language for Espacenet

The user interface of Espacenet at the EPO is available in the three official EPO languages: English, French and German. By default, Espacenet is displayed in English.

- To change the interface language, click your preferred language in the top right corner of the Espacenet screen.



Changing the language for the Espacenet user interface

Espacenet in other languages

Most EPC member states and a number of international and regional patent offices have set up Espacenet in their national language as a subdomain of Espacenet at the EPO or as an extra service within their patent office's website.

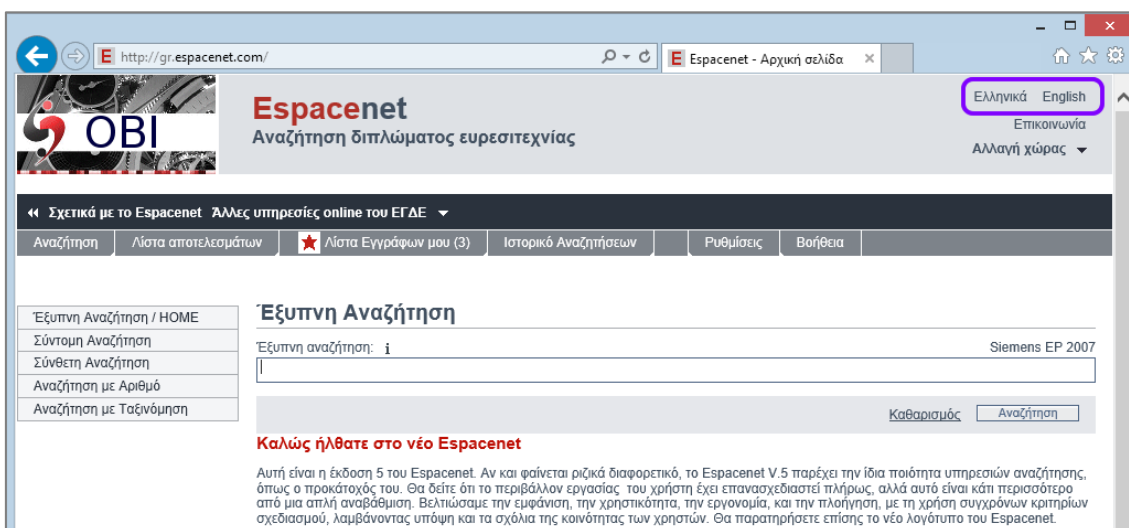
- To use Espacenet in the official language of another country, move your mouse cursor over the **Change country** link in the top right corner of the Espacenet screen.
- ✓ The country selection menu opens.
- Select the appropriate country.



Selecting a country to view Espacenet in another language

- ✓ You then see the Espacenet service of the selected national office in the corresponding national language.

Some countries also offer English in addition to their national language.



Viewing Espacenet in Greek

i For an overview of all countries participating in Espacenet and the available interface languages, go to <http://www.epo.org/searching-for-patents/technical/espacenet/national.html>.

Espacenet in Japanese, Chinese or Korean

Espacenet provides extra links for quick switching to the three main Asian languages.

- Open the **Related links** section on the left-hand side of the screen.
 - ✓ The links to the Asian language versions are available at the bottom of the list: Japanese, Chinese and Korean.
- Select the language you want to use.

Maintenance news	+
News flashes	+
Latest updates	+
Related links	-
→ Release notes and known issues	
→ Worldwide patent data coverage information (updated bi-annually)	
→ Some basic things you should know about Espacenet	
→ Some basic things you should know about searching	
→ Espacenet Assistant	
→ Fair use charter for the EPO's online patent information products	
→ The Patent Information Tour	
→ Recommended standard on two-letter codes	
→ Espacenetユーザーの皆様	
→ Espacenet中文用户界面	
→ Espacenet 한국어 사용자 인터페이스	

Links to Espacenet in Japanese, Chinese and Korean

✓ You then see Espacenet in the selected language.

Viewing Espacenet in Japanese

Configuring browser cookies

Many website functionalities make use of local data storage and caching, i.e. when you are viewing the website, your browser stores so-called cookies and temporary internet files on your computer. Cookies are small text files containing information like access date, referral URL, search terms or user name – data that is transmitted by your browser when you visit a website.

- **First-party cookies** are set by the website you are currently viewing.
- **Third-party cookies** are set by other websites whose services are integrated into the first-party website (e.g. internet maps, media feeds, advertisements, website statistics).
- **Session cookies** live in the browser's temporary memory; they are not written to your computer's hard disk and will be deleted when the browser is closed. Session cookies are necessary for many websites where a login is required or where data is entered, e.g. in a shopping basket.

If your browser is configured with the default settings, you will not encounter any problems when using Espacenet. However, if security is set to a higher level or is restricted – which is the case in most companies – it is very likely that you will need to adjust your browser's settings to allow cookies from Espacenet.

You must enable first-party cookies in your browser to use the following functions in Espacenet:

- Result list
- My patents list
- mosaic view
- downloading or printing all pages of a document from the PDF viewer
- settings: query history, highlighting, classification popup

There are many different ways of configuring browser options, depending on the software version and operating system running. We can only provide a very general overview for the most common browsers. Please ask your system administrator or your internal IT support if you need detailed information.

Microsoft Internet Explorer

The following instructions are valid for Internet Explorer 11 on Windows 8.1 Pro and Windows 7 Pro/Ultimate.

- Start Microsoft Internet Explorer.
- Click on the tools icon at the top right of the screen or click **Tools** in the menu bar.

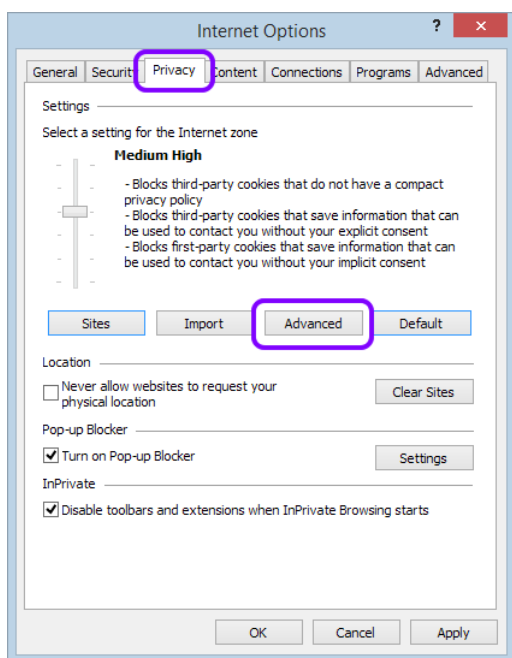
→ Select **Internet options**.

→ Click on the **Privacy** tab.

The default setting is **Medium**. This enables most websites to set first-party and third-party cookies.

If you find **Custom** or a higher setting than **Medium** here, it could happen that some websites do not work as expected.

→ Click on **Advanced**.



Privacy settings in the Internet Options of Internet Explorer

→ To change the cookie setting individually, activate the **Override automatic cookie handling** check box.

→ Under **First-party Cookies**, select **Accept**.

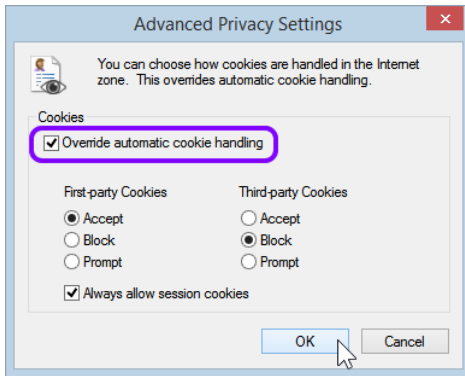
→ Under **Third-party Cookies**, select **Block**.

Espacenet does not require third-party cookies and it is always a good idea to exclude unwanted services.

Selecting **Prompt** is not recommended, because you will be irritated by hundreds of website prompts a day, asking you to allow them to set a cookie.

→ Select the **Always allow session cookies** check box.

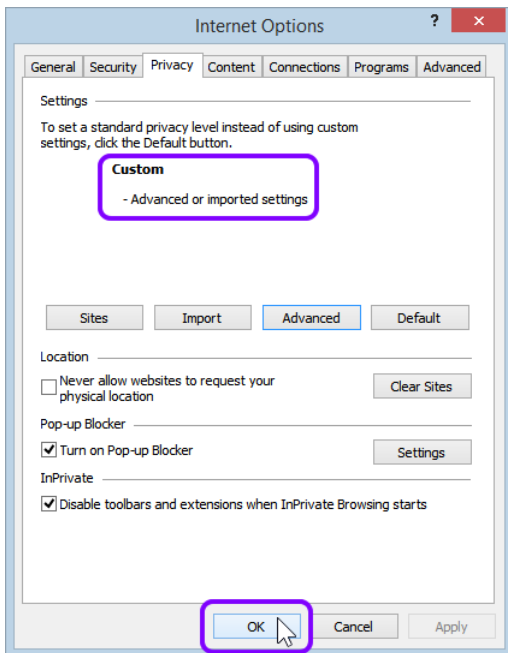
→ Click **OK**.



Setting individual options for cookie handling in Internet Explorer

✓ The Privacy settings have now changed to **Custom**.

→ Click **OK** to save your modified internet options.



Privacy settings set to Custom in Internet Explorer

Mozilla Firefox

The following instructions have been tested with Mozilla Firefox version 33.x on Windows 7 Pro/Ultimate and Mozilla Firefox version 38.x.

→ Click on the menu button [1] at the top right of the screen.

→ Click on **Options** [2].

→ Click on the **Privacy** tab [3].

Under **History**, the default setting is **Firefox will: Remember history**. This means that cookies are allowed and temporary internet files are stored on your computer's hard disk.

→ To set your history options individually, change the drop-down field to **Use custom settings for history** [4].

→ Select the **Accept cookies from sites** check box [5].

This means that first-party and third-party cookies are allowed.

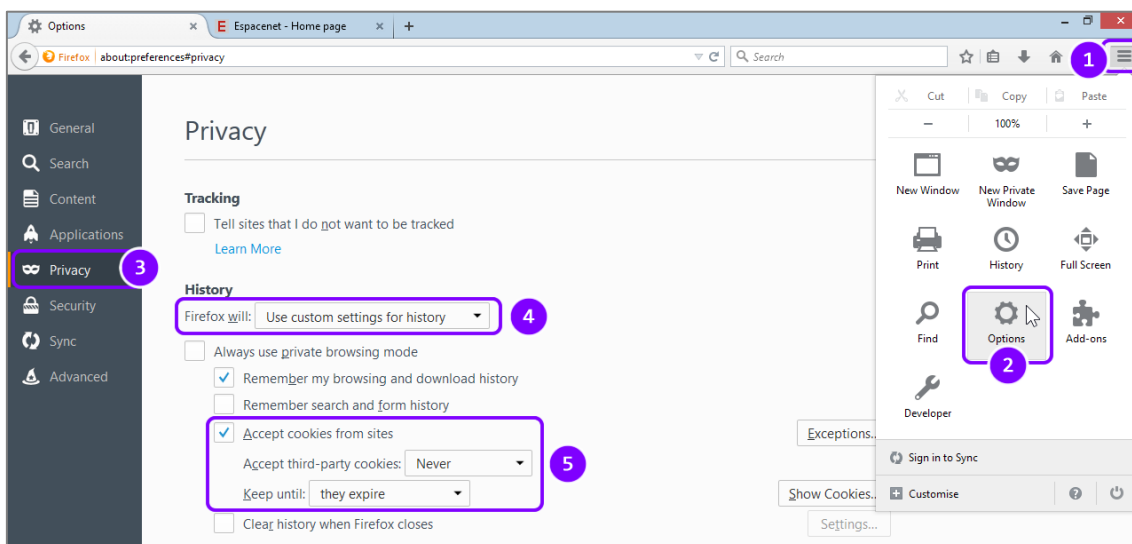
→ To disallow third-party cookies, select **never** from the **Accept third-party cookies** drop-down field.

→ Set the **Keep until** field to **they expire**.

This enables Espacenet's first-party cookie for **My patents list** to be saved.

Do not select **I close Firefox**, because this will delete the cookie and **My patents list** will be empty the next time you go to the Espacenet website.

→ To save your modified privacy options, click **OK**.



Privacy settings for cookies in Mozilla Firefox

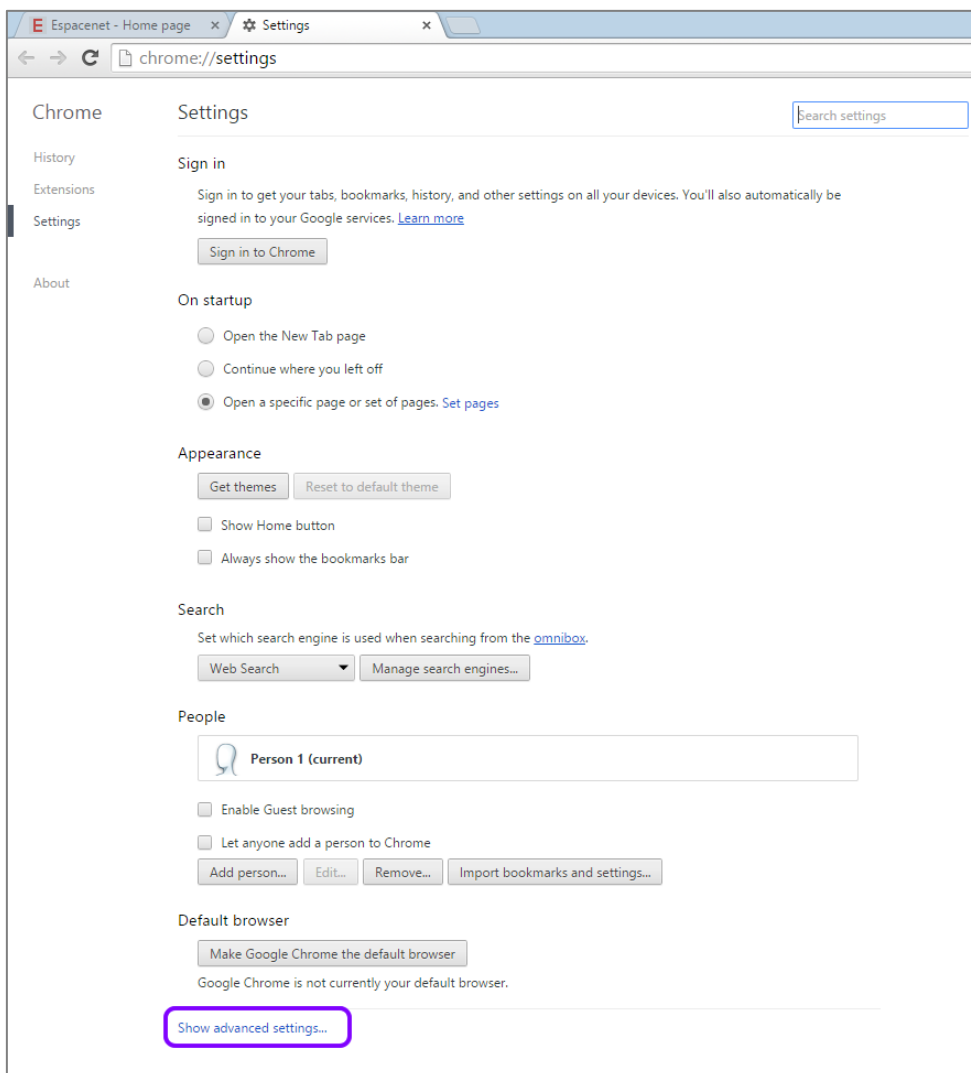
Google Chrome

The following instructions have been tested with Chrome 43.x on Windows 8.1 Pro.

→ Click on the menu button at the top right of the screen.

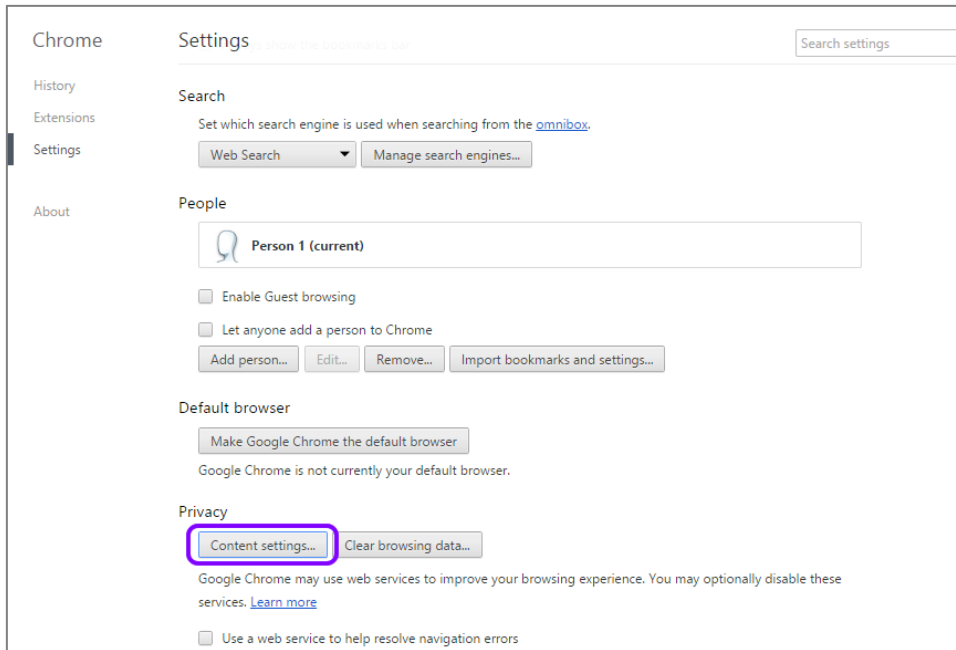
→ Click on **Settings**.

→ Click on **Show advanced settings...** at the bottom of the screen.



Settings screen in Google Chrome

→ Under **Privacy**, click on **Content settings**.



Privacy settings in Google Chrome

→ Under **Cookies**, select **Allow local data to be set**.

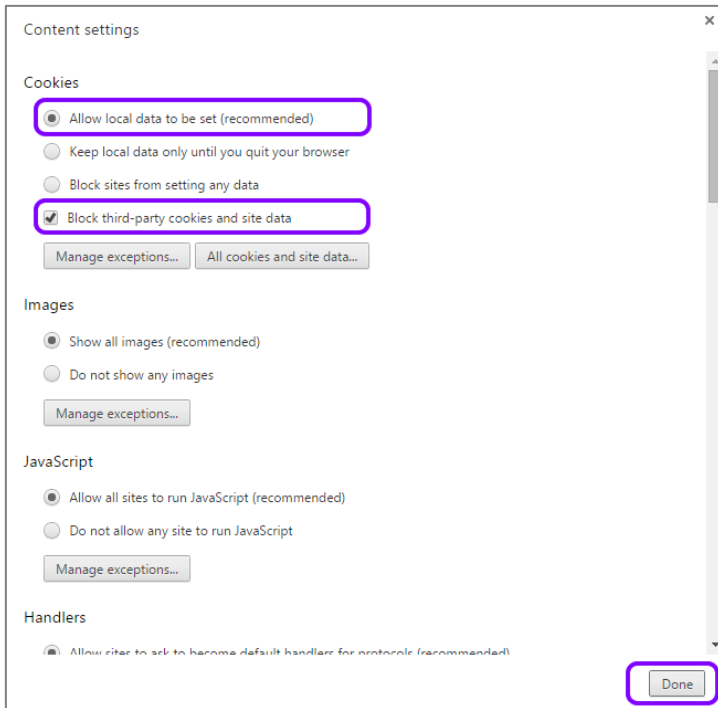
This means that first-party and third-party cookies are allowed.

Do not select **Keep local data only until you quit your browser**, because this will delete the **My patents list** cookie set by Espacenet.

→ Select the **Block third-party cookies and site data** check box.

→ To see the existing cookies and delete them if required, click on **All cookies and site data**.

→ To save your modified privacy settings, click **Done**.



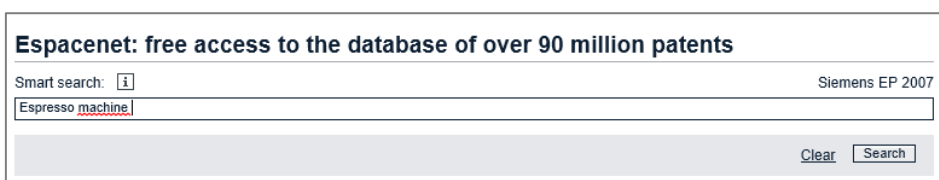
Individual cookie settings in Google Chrome

Disabling the autocorrect function for German

The autocorrect function is a convenient feature when you are writing and editing texts in word-processing software, but it can have unintended effects when you enter search terms in a web-based application running in your browser.

If the default input language is set to German and the autocorrect function is activated, the first word of a line is automatically capitalised when you type the second word. The result is that your search terms are changed, which is more annoying than helpful when you are searching in Espacenet.

For example, if you enter the term **espresso machine** in **Smart search**, the autocorrect function will change this to **Espresso machine**.

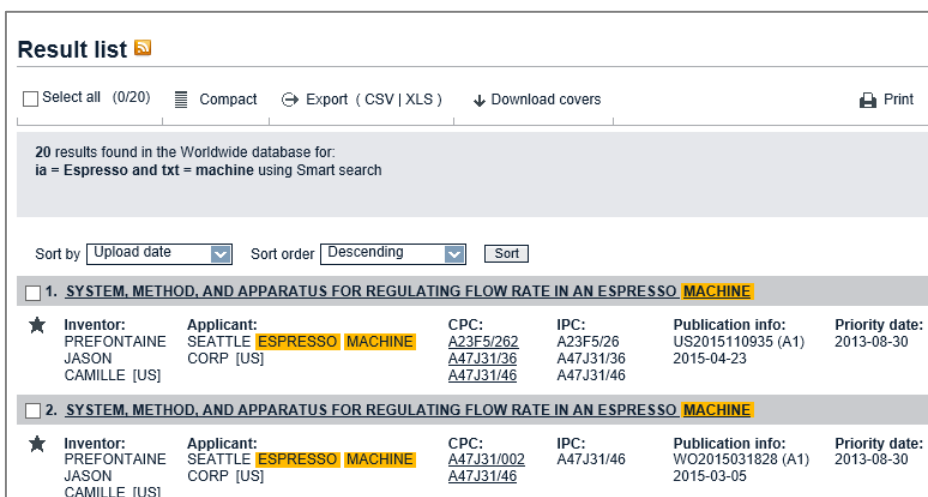


Espacenet: free access to the database of over 90 million patents

Smart search: Siemens EP 2007

Unwanted autocorrection of search terms with German as default input language

Because the word is capitalised, Smart search will recognise **Espresso** as a name and not as ordinary text, and will return results where the applicant or inventor data contains the word **Espresso**. The word **espresso** is not highlighted in the titles even if it is actually contained in the text.



Result list

Select all (0/20) Compact


20 results found in the Worldwide database for:
ia = Espresso and txt = machine using Smart search

Sort by Sort order

	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
<input type="checkbox"/> 1.	SYSTEM, METHOD, AND APPARATUS FOR REGULATING FLOW RATE IN AN ESPRESSO MACHINE					
★	PREFONTAINE JASON CAMILLE [US]	SEATTLE ESPRESSO MACHINE CORP [US]	A23F5/262 A47J31/36 A47J31/46	A23F5/26 A47J31/36 A47J31/46	US2015110935 (A1) 2015-04-23	2013-08-30
<input type="checkbox"/> 2.	SYSTEM, METHOD, AND APPARATUS FOR REGULATING FLOW RATE IN AN ESPRESSO MACHINE					
★	PREFONTAINE JASON CAMILLE [US]	SEATTLE ESPRESSO MACHINE CORP [US]	A47J31/002 A47J31/46	A47J31/46	WO2015031828 (A1) 2015-03-05	2013-08-30

Limited search results after autocorrection of search terms

If the default input language is English or French, however, the search terms will not be changed even if the autocorrect function is enabled. Your search will retrieve a considerably higher number of results.

Result list 

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately **1,029** results found in the Worldwide database for:
txt = espresso and txt = machine using Smart search
 Only the first 500 results are displayed. 1 ▶

Results are sorted by date of upload in database

<input type="checkbox"/>	1.	Espresso machine				
★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	DE LONGHI GIUSEPPE [IT]	LONGHI APPLIANCES S R L CON UNICO SOCIO DE [IT]			USD728986 (S1) 2015-05-12	2013-01-21
	VAONA MARCO [IT]					
<input type="checkbox"/>	2.	Espresso machine				
★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	DE LONGHI GIUSEPPE [IT]	LONGHI APPLIANCES S R L CON UNICO SOCIO DE [IT]			USD728295 (S1) 2015-05-05	2013-01-21
	VAONA MARCO [IT]	LONGHI APPLIANCES S R L CON UNICO SOCIO DE [IT]				
<input type="checkbox"/>	3.	DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE				
★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	ERBA ROBERTO [IT]	GRUPPO CIMBALI SPA [IT]	A47J31/24 A47J31/446 A47J31/4492 (+2)	A47J31/24 A47J31/44 G01J5/08 (+1)	US2015114234 (A1) 2015-04-30	2013-10-28
<input type="checkbox"/>	4.	SYSTEM, METHOD, AND APPARATUS FOR REGULATING FLOW RATE IN AN ESPRESSO MACHINE				
★	Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	PREFONTAINE JASON CAMILLE [US]	SEATTLE ESPRESSO MACHINE CORP [US]	A23F5/262 A47J31/36 A47J31/46	A23F5/26 A47J31/36 A47J31/46	US2015110935 (A1) 2015-04-23	2013-08-30

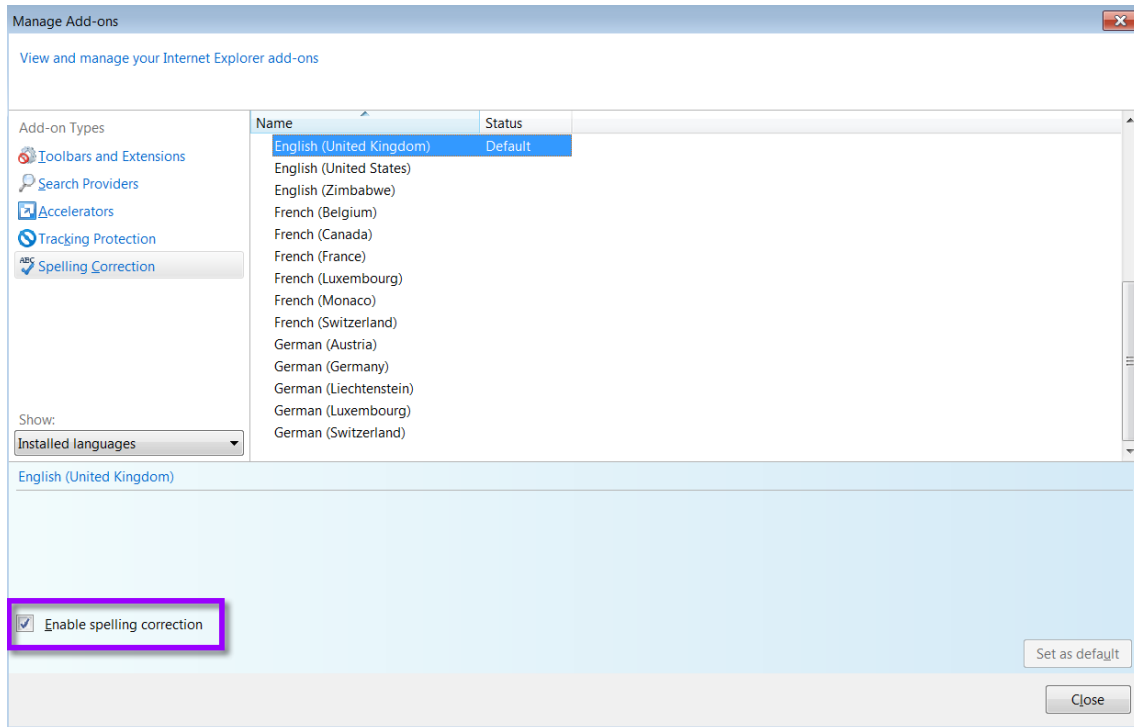
All search results with search terms not changed by autocorrect function

If you do not want to correct your input manually each time, you can disable the autocorrect function.

Microsoft Internet Explorer on Windows 7

In Internet Explorer 10 and 11, the spell-checker and the autocorrect function are handled by a browser plug-in which you can deactivate.

- Start Microsoft Internet Explorer.
- Click on the tools icon at the top right of the screen or click on **Tools** in the menu bar.
- Select **Manage add-ons**.
- In the **Add-on Types** list to the left, select **Spelling Correction**.
- Deselect the **Enable spelling correction** check box.
- To save your settings, click **Close**.

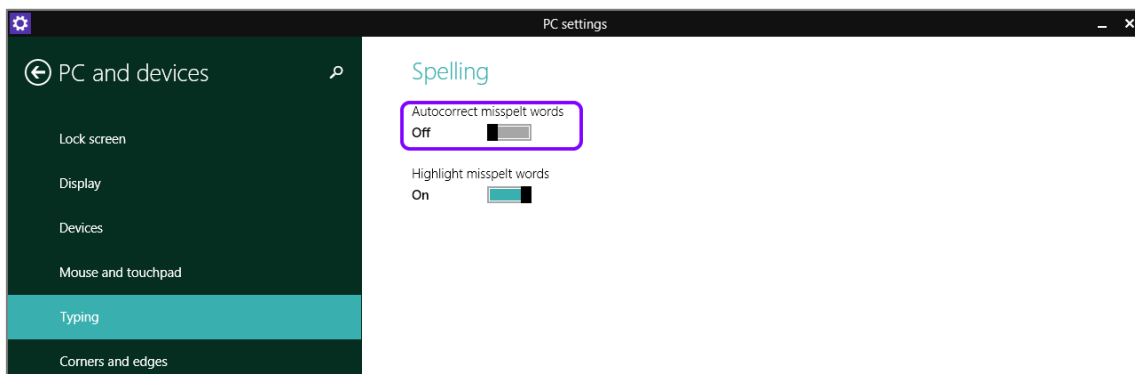


Disabling autocorrect in Internet Explorer

Windows 8.1

In Windows 8.1, the autocorrect option has been integrated into the system settings.

- Click on the **PC settings** tile on the Windows Start screen.
- Select **PC and devices** and then go to **Typing**.
- Under **Spelling**, set **Autocorrect misspelt words** to **Off** (it is **On** by default).
- If you do not want to see the wavy red lines under the words, set **Highlight misspelt words** to **Off** as well.



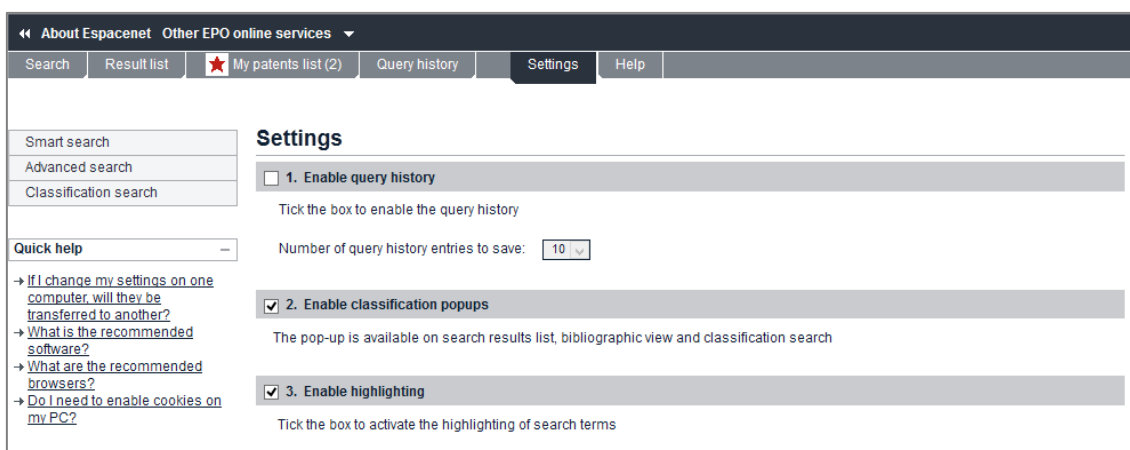
Disabling the autocorrect function in Windows 8.1

Changing Espacenet settings

i Espacenet settings are stored in browser cookies. You should therefore verify that your browser accepts first-party cookies from Espacenet. Bear in mind that your customised settings apply only to the specific browser on the specific computer that you were using when changing the settings.

On the **Settings** tab, you can manage the following settings:

- Query history – disabled by default
- Classification popups – enabled by default
- Highlighting – enabled by default



The screenshot shows the Espacenet Settings page. The navigation bar includes 'About Espacenet', 'Other EPO online services', 'Search', 'Result list', 'My patents list (2)', 'Query history', 'Settings', and 'Help'. The 'Settings' tab is active. On the left, there are links for 'Smart search', 'Advanced search', 'Classification search', and 'Quick help'. The main content area is titled 'Settings' and contains three sections:

- 1. Enable query history**: An unchecked checkbox. Below it, the text says 'Tick the box to enable the query history' and 'Number of query history entries to save: 10' (with a dropdown arrow).
- 2. Enable classification popups**: A checked checkbox. Below it, the text says 'The pop-up is available on search results list, bibliographic view and classification search'.
- 3. Enable highlighting**: A checked checkbox. Below it, the text says 'Tick the box to activate the highlighting of search terms'.

Default settings in Espacenet

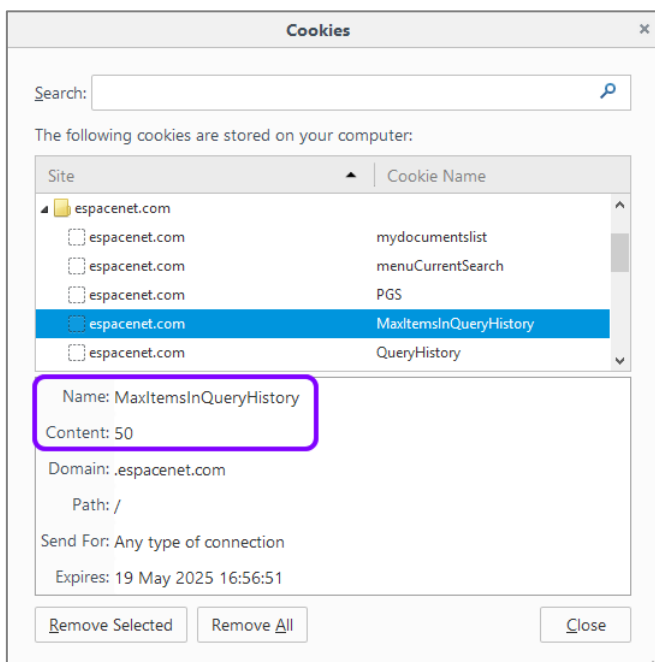
Query history

- To enable the query history, tick the box under the **Settings** tab.
- Choose the number of query history entries to be saved from the dropdown menu: 10 (default), 25 or 50 queries.
- ✓ The query history is now saved until you disable it or delete the cookies.

If you are interested, you can view the contents of cookies, for example in Mozilla Firefox:

- Click on the menu button at the top right of the screen and select **Options**.
- Click on the **Privacy** tab.
- Double-click on the **espacenet.com** folder to expand the list of cookies set by Espacenet.

→ Select a cookie to see its contents, e.g. **MaxItemsInQueryHistory**.



Example of the Query history cookie in Mozilla Firefox

Classification popups

Classification popups are enabled by default. When you click on a CPC classification symbol in the result list, in the **Bibliographic data** screen or in the **INPADOC patent family** screen, the relevant details of the CPC scheme are displayed in an overlay window. The classification popup shows the selected symbol in the hierarchical structure of the classification scheme, including descriptions and images of the relevant sections.

7. Super-automatic coffee maker for preparation of **espresso** coffee

★ Inventor: CEOTTO BEPPINO
ROSSETTO GIOVANNI

Applicant: CMA MACCHINE PER
CAFFE S R L

CPC: **A47J31/42**

IPC: A47J31/42

Publication info: AU2013311631 (A1)
2015-03-05

Priority date: 2012-09-07

CPC - A47J31/42

scheme images

Symbol Classification and description

A HUMAN NECESSITIES

Personal or domestic articles

A47 FURNITURE (arrangements of seats for, or adaptations of seats to, vehicles **B60N**); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders **E06C**)

A47J KITCHEN EQUIPMENT {{domestic washing or cleaning **A47L**; refuse receptacles **B65F 1/00**}; COFFEE MILLS; SPICE MILLS; APPARATUS FOR MAKING BEVERAGES (disintegrating, e.g. mincing, **B02C**; severing, e.g. cutting, slicing, **B26B**, **B26D**)

Cooking; Apparatus for making beverages

A47J 31/00 Apparatus for making beverages (household machines or implements for straining foodstuffs **A47J 19/00**; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, **A23L 2/00**; coffee or tea pots **A47G 19/14**; tea infusers **A47G 19/16**; dispensing beverages on draught **B67D 1/00**; brewing of beer **C12C**; preparation of wine or other alcoholic beverages **C12G**)

A47J 31/42 Beverage-making apparatus with incorporated grinding or roasting means for coffee {{coffee mills **A47J 42/00**; coffee roasters in general **A23N 12/08**}}

Publication info: KR101489809 (B1)
2015-02-04

Priority date: 2013-08-06

CHINE

Publication info: WO2015031828 (A1)
2015-03-05

Priority date: 2013-08-30

Publication info: AU2013279154 (A1)
2015-02-12

Priority date: 2012-06-22

Publication info: KR20140137881 (A)
2014-12-03
KR101497069 (B1)
2015-03-05

Priority date: 2013-05-24

Publication info: KR20140132116 (A)
2014-11-17

Priority date: 2013-05-07

Publication info: TW201442678 (A)
2014-11-16

Priority date: 2013-03-07

Information on a classification symbol in the classification popup

Sometimes the information will not fit into the popup window, which makes it hard to read.

- To disable the classification popup, deselect the **Enable classification popups** check box.
- ✓ Now when you click a classification symbol, the **Classification search** screen opens and displays the selected symbol in the classification system.

Smart search
Advanced search
Classification search

Quick help
→ [What is the Cooperative Patent Classification system?](#)
→ [How do I enter classification symbols?](#)
→ [What do the different buttons mean?](#)
→ [Can I retrieve a classification using keywords?](#)
→ [Can I start a new search using the classifications listed?](#)
→ [Where can I view the description of a particular CPC class?](#)
→ [What is the meaning of the stars in front of the classifications found?](#)
→ [What does the text in brackets mean?](#)

Selected classifications
nothing selected
Find patents
Copy to search form

Cooperative Patent Classification

Search for Search

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

« A47J29/00 A47J33/00 »

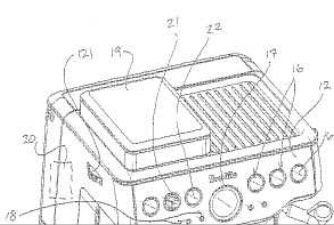
Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES S
Personal or domestic articles	
<input type="checkbox"/> A47	FURNITURE (arrangements of seats for, or adaptations of seats to, vehicles B60N); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders E06C) i
<input type="checkbox"/> A47J	KITCHEN EQUIPMENT ((domestic washing or cleaning A47L ; refuse receptacles B65F 1/00); COFFEE MILLS; SPICE MILLS; APPARATUS FOR MAKING BEVERAGES (disintegrating, e.g. mincing, B02C ; severing, e.g. cutting, slicing, B26B , B26D) S D
Cooking; Apparatus for making beverages	
<input type="checkbox"/> A47J 31/00	Apparatus for making beverages (household machines or implements for straining foodstuffs A47J 19/00 ; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00 ; coffee or tea pots A47G 19/14 ; tea infusers A47G 19/16 ; dispensing beverages on draught B67D 1/00 ; brewing of beer C12C ; preparation of wine or other alcoholic beverages C12G) D
<input type="checkbox"/> A47J 31/42	• Beverage-making apparatus with incorporated grinding or roasting means for coffee { (coffee mills A47J 42/00 ; coffee roasters in general A23N 12/08)}

Information on a classification symbol in the Classification search screen

Highlighting

The highlighting of search terms in the search results is enabled by default. All search terms that have been found are marked by a yellow background wherever they appear in the result list and in the patent document data.

- To disable the highlighting of search terms, deselect the **Enable highlighting** check box.

<p>AU2010207886 (A1)</p> <p>Bibliographic data</p> <p>Description</p> <p>Claims</p> <p>Mosaics</p> <p>Original document</p> <p>Cited documents</p> <p>Citing documents</p> <p>INPADOC legal status</p> <p>INPADOC patent family</p> <hr/> <p>Quick help</p> <p>→ What is meant by high quality text as facsimile?</p> <p>→ What does A1, A2, A3 and B stand for after a European publication number?</p> <p>→ What happens if I click on "In my patents list"?</p> <p>→ What happens if I click on the "Register" button?</p> <p>→ Why are some sidebar options deactivated for certain documents?</p> <p>→ How can I bookmark this page?</p> <p>→ Why does a list of documents with the heading "Also published as" sometimes appear, and what are these documents?</p> <p>→ What is Global dossier?</p> <p>→ Why do I sometimes find the abstract of a corresponding document?</p> <p>→ What happens if I click on the red "patent translate" button?</p>	<p>Bibliographic data: AU2010207886 (A1) — 2011-08-11</p> <p>★ In my patents list Previous ◀ 7 / 14 ▶ Next ✕ EP Register Report data error Print</p> <p>Espresso machine with grinder dosing control</p> <hr/> <p>Page bookmark AU2010207886 (A1) - Espresso machine with grinder dosing control</p> <hr/> <p>Inventor(s): CON PSAROLOGOS; DAVID DAVENPORT; RICHARD HOARE ±</p> <hr/> <p>Applicant(s): BREVILLE R & D PTY LTD ±</p> <hr/> <p>Classification: - international: A47J31/42; A47J42/40; A47J42/44</p> <p> - cooperative: A47J31/3609; A47J31/42; A47J31/4464; A47J42/40; A47J42/44</p> <hr/> <p>Application number: AU20100207886 20100129</p> <hr/> <p>Priority number(s): AU20090900315 20090129; WO2010AU00087 20100129; AU20100207886 20100129</p> <hr/> <p>Also published as: WO2010085850 (A1); US2011283889 (A1); RU2011135818 (A); EP2391250 (A1); EP2391250 (A4)</p> <p> → more</p> <hr/> <p>Abstract of AU2010207886 (A1)</p> <p>Translate this text into <input type="text" value="i"/> <input type="text" value="Albanian"/> <small>powered by EPO and Google</small></p> <p>An espresso machine has a built-in coffee grinder. An electrical switch toggles between a one cup dose and a two cup dose. The switch works in conjunction with a dose strength adjustment. Alteration of the dose strength adjustment alters the dose strength for both the one cup of two cup dose settings. The internal coffee grinder dispenses into a portafilter that is held in a hand free support cradle. In some embodiments, the upper burr head of the grinder is retained by a bracket. The combination of upper burr head and bracket allows the upper burr head to be removed and replaced without having to re-set the grind size.</p> 
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Search terms highlighted in the title and abstract of a patent application

Getting help

Online assistance is available from the Espacenet user interface at any time.

You can also download the complete user guide from the EPO website at <http://www.epo.org/searching/free/espacenet.html>.

Online help

The online help provides an overview of all help topics and a search function.

- Click on **Help** in the main navigation.
- ✓ The Help overview screen is displayed.
- Go to the help topic you are interested in.

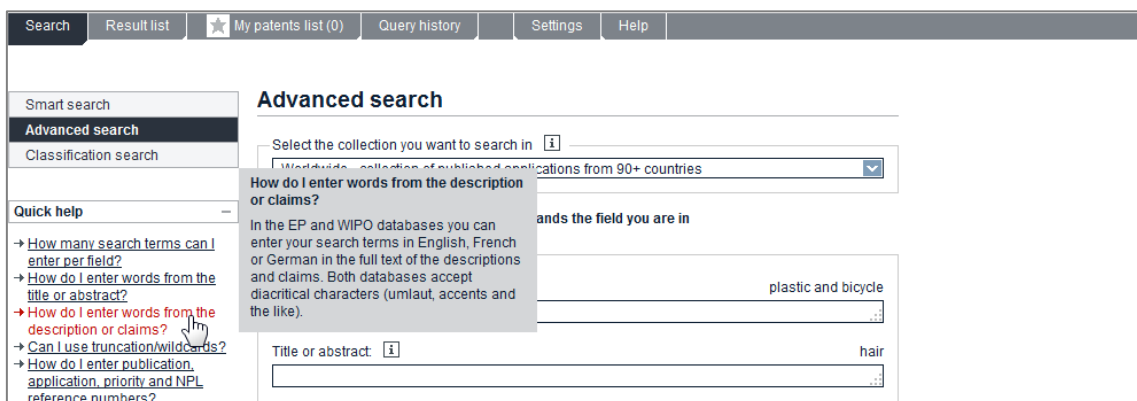
The Help overview screen in Espacenet

Quick help

The **Quick help** section on the left provides short answers to the most frequent questions in the context of the currently viewed screen.

For example, when you are in the Advanced search screen, **Quick help** lists questions related to the search fields in Advanced search.

→ To view the **Quick help** answer, move your mouse cursor over the link text.

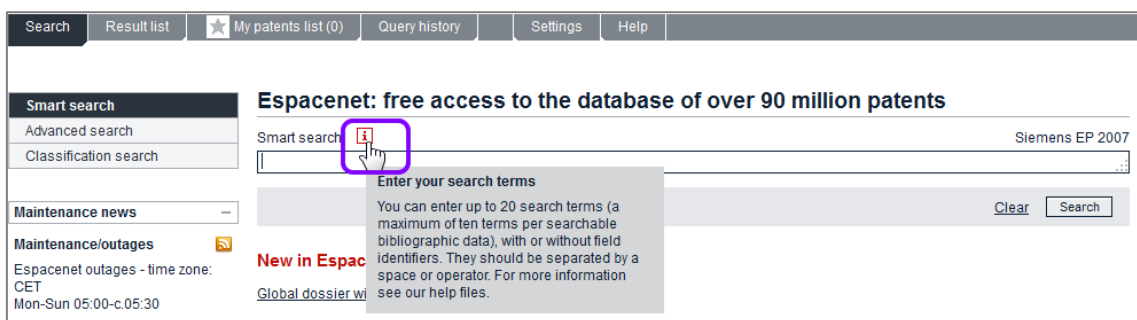


Quick help answer related to the Advanced search screen

Field help

All search fields and some bibliographic fields provide extra information about what to enter or how to read this data.

→ To see the field help, move your mouse cursor over the i-symbol next to the field name.



Field help for the Smart search field

Online tutorial

With the Espacenet Assistant e-learning tool, you can learn how to use Espacenet. A collection of interactive learning modules allows you to select the topics you are interested in and to test your knowledge.

<http://application.epo.org/wbt/espacenet/>

i The Adobe Flash browser add-on is required to access the e-learning tool.

Contact EPO's Customer Service

→ Click on **Contact** at the top right of the screen to open a webform:

The screenshot shows the top navigation bar of the Espacenet website. On the left is the EPO logo with text in German, English, and French. In the center is the 'Espacenet Patent search' logo. On the right, there are language options: 'Deutsch', 'English', and 'Français'. A 'Contact' button is highlighted with a red circle. Below the header is a dark navigation bar with links for 'About Espacenet', 'Other EPO online services', 'Search', 'Result list', 'My patents list (0)', 'Query history', 'Settings', and 'Help'. The main content area features a 'Smart search' section with a search bar containing 'Siemens EP 2007' and buttons for 'Clear' and 'Search'. There are also links for 'Advanced search', 'Classification search', and 'Maintenance news'.

→ Fill in the **Webform** by selecting the appropriate details.

The screenshot shows the 'Contact us' webform on the EPO website. The page has a navigation bar with 'Home', 'Searching for patents', 'Applying for a patent', 'Law & practice', 'News & issues', 'Learning & events', and 'About us'. The breadcrumb trail is 'Home > Service & support > Contact us > Contact'. The main heading is 'Contact us' with 'Print' and 'Share' icons. A progress indicator shows '1. Complete > 2. Preview > 3. Submit'. A warning message states: 'Fields marked with an asterisk (*) are mandatory. Click the "Preview" button at the bottom of the page when you are ready to proceed to step 2.' Below this is a disclaimer: 'This contact form has no legal force in proceedings under the EPC (1973)'. A 'Read more' link is provided. The form fields include: 'Topic*' with a dropdown menu showing 'Online services / patent searches'; 'Subject*' with the text 'Espacenet'; 'Enquiry number' with a text input field; and 'Your enquiry*' with a large text area. A 'See also' section on the right lists: 'Warning: Beware of approaches and requests for payment from firms purporting to register European patents'. A purple callout box highlights a 'Please select' dropdown menu with the following options: 'An existing patent application', 'Online services / patent searches' (highlighted in red), 'Fee payment', 'Legal and procedural questions', 'The EPO in general', and 'Jobs'. The left sidebar contains various links such as 'Website updates', 'Availability of online services', 'FAQ', 'Online services and software', 'Publications', 'Ordering', 'Forms', 'Useful links', and 'Contact us' (with sub-links for Munich, The Hague, Berlin, Vienna, Brussels, and Munich, Haar addresses, as well as accessibility and newsletter options).

→ **Preview** and **submit** your enquiry.

Choosing the appropriate search function

In Espacenet, you can search for patent documents and patent applications with **Smart search**, **Advanced search** and **Classification search**.

Smart search is the default option when you go to the Espacenet home page.

- Click on the **Search** tab [1] in the main navigation.
- Select your preferred search function by clicking on the relevant tab in the search navigation.

Smart search [2] is a good option if you are new to patent search. You can enter a single search term or a combination of search terms, including names, dates and classification symbols. If you know the application number, publication number or priority number, you can easily find a specific patent document in Smart search.

*Example: You are interested in **espresso machines** published by **Italian applicants**.*

Advanced search [3] is the best option if you want to search in the bibliographic data and the abstract (where available) and to combine various search terms. When searching in the European publication database, you can also search the full text of descriptions and claims.

*Example: You are looking for patent documents having the word **display** in their titles, published in **2012** and with **Lenovo** as the applicant.*

Classification search [4] is the right option if you are interested in finding all the patent publications in a particular technical area. Being a powerful tool used by professional patent searchers, it can take a while to get used to, but it is usually worth the effort.

*Example: You are researching in the field of **lactose intolerance** and want to find out which medical treatments have been patented by your competitors.*

1 Espacenet Other EPO online services

2 Smart search

3 Advanced search

4 Classification search

Search for [a keyword or a classification symbol] Search View section Index A B C D E F G H Y

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
<input type="checkbox"/> B	PERFORMING OPERATIONS; TRANSPORTING
<input type="checkbox"/> C	CHEMISTRY; METALLURGY

Quick help

- [What is the Cooperative Patent Classification system?](#)
- [How do I enter classification symbols?](#)
- [What do the different buttons mean?](#)

Classification search start screen in Espacenet

The following table compares the three search functions. Note that the total number of search terms is identical, but the default operators which are used by the different search functions apply a different logical structure to the query.

Query rules	Smart search	Advanced search	Classification search
Search term entry	Total maximum: 20 search terms. Maximum per search criterion (e.g. applicant): 10 search terms	Total maximum: 20 search terms Maximum per field (e.g. title): 10 search terms	Total maximum: 10 search terms (keywords or classification symbols)
Default operator	AND for all search terms in the field	OR within: <ul style="list-style-type: none"> - application number - publication number - priority number - publication date AND within: <ul style="list-style-type: none"> - title - title or abstract - keyword(s) in full text (*) - applicant(s) - inventor(s) - CPC - IPC AND for combining fields	AND for all search terms in the field

(*) only available if searching in the full-text databases

Choosing the patent collection (database) to search in

By default, the Espacenet search engine uses the Worldwide database, which hosts patent documents from all over the world. Depending on your purpose, however, it might be interesting to specialise in one of the other databases connected to Espacenet.

Which database should I choose?

- The Worldwide database contains the complete collection of documents available in Espacenet and forms a good basis for most searches. The search is made for patent applications that have an English-language title and/or abstract. Alternatively you can select from one of the three full-text databases to search in the description and/or claims in the language of the chosen database.

Worldwide – collection of published applications from 90+ countries

Select the Worldwide database if you are searching for information on published patent applications and granted patents from all over the world. You can only use English terms to search the Worldwide database.

Worldwide EN – collection of published applications in English

Select this database to search in the full text (description and claims) with English terms to retrieve all documents published in English from the Worldwide database.

Worldwide FR – collection des demandes publiées en Français

Select this database to search in the full text (description and claims) with French terms to retrieve all documents published in French from the Worldwide database.

Worldwide DE - Sammlung veröffentlichter Anmeldungen auf Deutsch

Select this database to search in the full text (description and claims) with German terms to retrieve all documents published in German from the Worldwide database.

Selecting the database

In **Advanced search**, the search mask includes a field labelled **Select the collection you want to search in**.

- Open the drop-down menu by clicking on the blue arrow button to the right.
- Choose the database as appropriate.

Smart search

Advanced search

Classification search

Quick help

- How many search terms can I enter per field?
- How do I enter words from the title or abstract?
- How do I enter words from the description or claims?
- Can I use truncation/wildcards?
- How do I enter publication, application, priority and NPL reference numbers?

Advanced search

Select the collection you want to search in 1

Worldwide - collection of published applications from 90+ countries

Worldwide - collection of published applications from 90+ countries

Worldwide EN - collection of published applications in English

Worldwide FR - collection des demandes publiées en Français

Worldwide DE - Sammlung veröffentlichter Anmeldungen auf Deutsch

Enter keywords

Title: 1 plastic and bicycle

Title or abstract: 1 hair

Selecting the database in the Advanced search screen

Note how the search mask changes according to your database selection:

- ✓ If you select one of the full-text databases, the **Keyword(s) in title, abstract and full text** field appears instead of the **Title** and **Title or abstract** fields.
- ✓ The sample search terms that are displayed at the top right of every field adapt to the selected database.

In **Smart search**, the database selection is initially not available. As soon as you run your first search, you will see the **Refine search** link in the breadcrumb navigation on top of the **Result list** screen.

→ To go back to the **Smart search** screen and modify your search options, click on **Refine search**.

Search Result list **★ My patents list (0)** Query history Settings Help

Refine search Results page 1

Smart search

Advanced search

Classification search

Quick help

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

Related links

Result list

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 259 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = IT using Smart search 1

Sort by Upload date Sort order Descending Sort

- 1. DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE**

★ Inventor: ERBA ROBERTO [IT]	Applicant: GRUPPO CIMBALI SPA [IT]	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC: A47J31/24 A47J31/44 G01J5/08 (+1)	Publication info: US2015114234 (A1) 2015-04-30	Priority date: 2013-10-28
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- 2. Super-automatic coffee maker for preparation of espresso coffee**

★ Inventor: CEOTTO BEPPINO ROSSETTO GIOVANNI	Applicant: CMA MACCHINE PER CAFFE S R L	CPC: A47J31/42	IPC: A47J31/42	Publication info: AU2013311631 (A1) 2015-03-05	Priority date: 2012-09-07
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- 3. Machine for preparing beverages**

★ Inventor: BALESTIER DIEGO [IT] VAN EEDEN FRANCISCUS BENEDICTUS MARIA [NL] (+1)	Applicant: ILLYCAFFE SPA [IT]	CPC: A47J31/4403 A47J31/4457 A47J31/446	IPC: A47J31/00 A47J31/44	Publication info: TW201442678 (A) 2014-11-16	Priority date: 2013-03-07
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Result list after running a query in Smart search

- ✓ The **Smart search** screen is displayed, now featuring the database selection.

Search Result list My patents list (0) Query history Settings Help

Smart search

Advanced search
Classification search

Quick help

- How do I enter a query?
- What are field identifiers?
- Can I use truncation/wildcards?
- What date formats can I use?
- How do I enter a date range for a search?

Related links

Select the collection you want to search in

Enter your search terms - press CTRL+ENTER to enlarge the search field

Smart search

Clear Search

Smart search screen with database selection after clicking Refine search

In **Classification search**, there is no database selection at any time. After running a classification search, the **Result list** screen shows the **Refine search** link in the breadcrumb navigation.

→ To change the database selection, click on **Refine search**.

✓ The **Advanced search** screen is displayed, allowing you to modify your search options including the database selection.

Search Result list My patents list (0) Query history Settings Help

Refine search Results page 1

Smart search
Advanced search
Classification search

Quick help

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

Result list

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 65,885 results found in the Worldwide database for: **A61K36/00** as the Cooperative Patent Classification
Only the first 500 results are displayed.

Results are sorted by date of upload in database

1. Botanical composition and method for treating pain and discomfort of various conditions

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
SUGERMAN MICHAEL [US]	SEVEN CONSULTING INC [US]	A61K36/185 A61K36/45 A61K36/738 (+2)	A61K36/00 A61K36/185 A61K36/45 (+3)	US9040099 (B1) 2015-05-26	2010-11-02

2. HIGH-PURITY STEVIOL GLYCOSIDES

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MARKOSYAN AVETIK [AM]	PURECIRCLE USA INC [US]	A21D2/181 A23C9/1307 A23G1/40 (+15)	A23L1/236 A61K8/60 B01D15/18 (+1)	US2015141632 (A1) 2015-05-21	2010-03-12

3. ACTIVE SUBSTANCE COMBINATION OF LICOCHALCONE A AND PHENOXYETHANOL

Result list of a classification search in the Worldwide database

Searching with Smart search

Smart search is the default setting when you go to the Espacenet home page. The **Smart search** screen provides one large field for your query.

In the **Smart search** screen you can enter your query with or without field identifiers.

i A **field identifier** is an abbreviation for the bibliographic field to which the search for a specific term will be limited.

If you do not enter field identifiers, the search engine analyses the terms in your entry, applies the default field identifier and searches in the matching bibliographical fields of the Espacenet database.

Input example	Search term type	Default field identifier	Bibliographical field(s) searched
engine diesel display	Text (word starting with a lowercase letter)	txt	Title Abstract Inventor Applicant
Siemens Jura Miller Catherine	Name (word starting with a capital letter followed by only lowercase letters)	ia	Inventor Applicant
ep, it, us ep1000000 nl19981010536 wo2014nl50211	Number (letters + digits)	num	Publication number Application number Priority number
A47J31/42 b03	Classification symbol (letters + digits + slash)	cl	Classification (CPC or IPC)
2005 2005-05 25.05.2005	Date (digits + separator characters)	pd	Publication date

Starting a search with keywords

→ Enter your query into the **Search term(s)** field.

You can enter one or more search terms. The search terms are not case-sensitive with one exception: if you want to search for a name, then enter the name with an initial capital, e.g. **Lenovo tablet display**.

→ To delete the search terms from the field, click on **Clear**.

→ To run the query, click on **Search** or hit the **Enter (Return)** key.

The screenshot shows the Espacenet Patent search interface. At the top left is the logo of the European Patent Office (EPO) in German, English, and French. The main header features the 'Espacenet Patent search' logo and navigation links for 'Deutsch', 'English', and 'Français', along with 'Contact' and 'Change country'. Below the header is a navigation bar with 'Search', 'Result list', 'My patents list (0)', 'Query history', 'Settings', and 'Help'. The search area includes a 'Smart search' section with a search bar containing 'Lenovo tablet display' and a 'Clear' button. A 'Search' button is also present. The page title is 'Espacenet: free access to the database of over 90 million patents'.

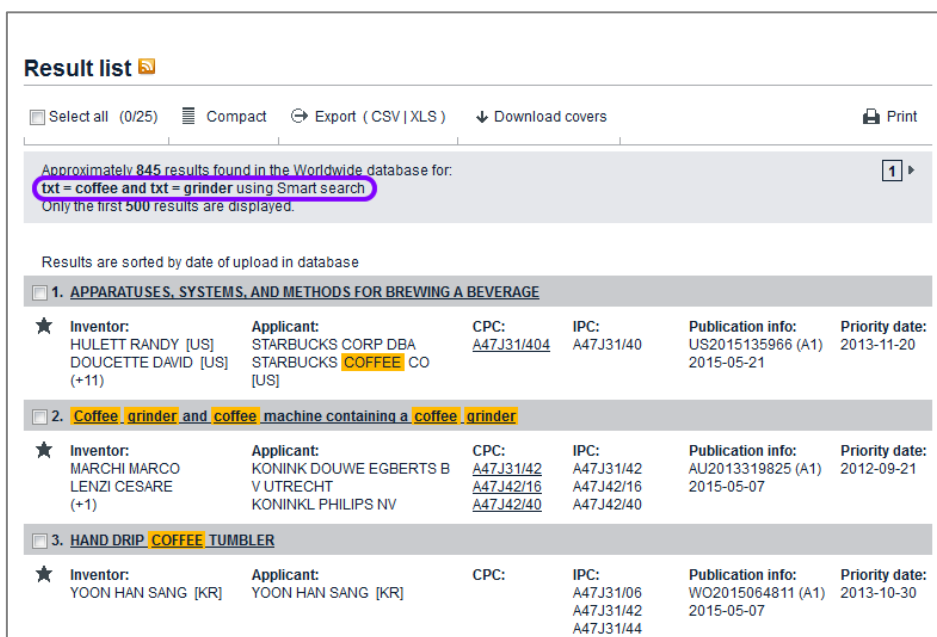
Search term with multiple keywords entered


i For more experienced users, Smart search also accepts command-line searches. The query language that Smart search understands is CQL (Contextual Query Language). For more information about CQL visit the Library of Congress website at <http://www.loc.gov/standards/sru/cql/>.





Understanding default field identifiers in Smart search


If you do not enter operators or field identifiers into the Smart search field, the search engine analyses the search terms and interprets which search criteria each word is.

→ To see the search query used by the search engine, check the grey area above the search results list.



Result list 

Select all (0/25)  Compact  Export (CSV | XLS)  Download covers  Print

Approximately 845 results found in the Worldwide database for:
txt = coffee and txt = grinder using Smart search  1
Only the first 500 results are displayed.

Results are sorted by date of upload in database

1. **APPARATUSES, SYSTEMS, AND METHODS FOR BREWING A BEVERAGE**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HULETT RANDY [US] DOUCETTE DAVID [US] (+11)	STARBUCKS CORP DBA STARBUCKS COFFEE CO [US]	A47J31/404	A47J31/40	US2015135966 (A1) 2015-05-21	2013-11-20

2. **Coffee grinder and coffee machine containing a coffee grinder**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MARCHI MARCO LENZI CESARE (+1)	KONINK DOUWE EGBERTS B V UTRECHT KONINKL PHILIPS NV	A47J31/42 A47J42/16 A47J42/40	A47J31/42 A47J42/16 A47J42/40	AU2013319825 (A1) 2015-05-07	2012-09-21

3. **HAND DRIP COFFEE TUMBLER**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
YOON HAN SANG [KR]	YOON HAN SANG [KR]		A47J31/06 A47J31/42 A47J31/44	WO2015064811 (A1) 2015-05-07	2013-10-30

Search query interpretation with field identifiers and default operator

If you do not see your search terms in the **Result list**, they have been found in the abstract or in other data which is not included in the result list (e.g. the application number or the priority number).

→ Click on the title of an application to view its **Bibliographic data**.

The search terms are highlighted, in this example in the **Abstract** section.

Bibliographic data: US2015135966 (A1) — 2015-05-21

★ In my patents list Previous 1/500 ▶ Next ✕ EP Register 📄 Report data error 🖨 Print

APPARATUSES, SYSTEMS, AND METHODS FOR BREWING A BEVERAGE

Page bookmark US2015135966 (A1) - APPARATUSES, SYSTEMS, AND METHODS FOR BREWING A BEVERAGE

Inventor(s): HULETT RANDY [US]; DOUCETTE DAVID [US]; APONE DAN [US]; KOLLER IZAAK [US]; JURIS AMANDA L [US]; ALLISON JEFF [US]; SHAY BRIAN [US]; JOHNSON JOHN ANDREW [US]; HORTH ROLAND [US]; FRANKOVICH STEVE [US]; KLECKER GLENN [US]; HANCOCK STEPHEN HOYT [US]; SINGER MARC [US] ±

Applicant(s): STARBUCKS CORP DBA STARBUCKS **COFFEE** CO [US] ±

Classification: - international: **A47J31/40**
 - cooperative: **A47J31/404**

Application number: US201414548174 20141119

Priority number(s): US201414548174 20141119 ; **US201361906871P 20131120** ; **US201361906872P 20131120**

Abstract of US2015135966 (A1)

Translate this text into  powered by EPO and Google

Apparatuses, systems, and methods for brewing a desired portion of a beverage, such as a single-cup portion of **coffee**, are provided. The system can include one or more hopper assemblies configured to provide a controlled dose of beverage material to a brew chamber. The system can also include a water input system configured to wet the ground beverage material as the grinds enter the brew chamber and substantially prevent steam from reaching **grinder** components of the system. Further, the system can include an automatic cleaning mechanism such that a user does not need to manually clean components of a brewing machine between brew cycles.

Search terms highlighted in Abstract section of an application

Rules for default field identifiers

1. If no search operator is entered, search terms are connected by the **AND** operator.
 - Enter **coffee grinder**.
 - Enter **coffee and grinder**.
 - ✓ Resulting search term(s) in both cases: **txt = coffee and txt = grinder**
2. Words starting with a capital letter followed by lowercase letters are interpreted as inventors' or applicants' names.
 - Enter **Reader**.
 - ✓ Resulting search term(s): **ia = Reader**
3. Words starting with lowercase letters are interpreted as keywords in the title or as part of a name or address.
 - Enter **reader**.
 - ✓ Resulting search term(s): **txt = reader**
4. Numbers in a date format are interpreted as publication date.
 - Enter **03/2014**.
 - ✓ Resulting search term(s): **pd = 03/2014**

→ Enter **05.03.2014**.

✓ Resulting search term(s): **pd = 05.03.2014**

5. 6-digit numbers preceded by the year **YY** and the two letters **ep** are interpreted as European application number. When entered, the database searches for the publication number.

→ Enter **ep99203729**

✓ Resulting search term(s): **ep19990203729**

6. 7-digit numbers preceded by the two letters **ep** are interpreted as European publication number.

→ Enter **ep1000000**.

✓ Resulting search term(s): **num = ep1000000**

7. Two letters followed by a specific number of digits are interpreted as publication number, application number or priority number.

→ Enter **WO2011156929**.

✓ Resulting search term(s): **num = WO2011156929**

→ Enter **CH20130035313**.

✓ Resulting search term(s): **num = CH20130035313**

8. Two letters conforming to the two-letter codes in the EPO's list of country codes are interpreted as publication number, application number or priority number.

→ Enter **it**.

✓ Resulting search term(s): **num = it**

9. Terms starting with a letter followed by digits and characters conforming to the CPC or IPC symbol pattern are interpreted as classification symbol.

→ Enter **b02 b03**.

✓ Resulting search term(s): **cl = b02 and cl = b03**

→ Enter **h05g1**.

✓ Resulting search term(s): **cl = h05g1**

Combining multiple search criteria without field identifiers

You can search more effectively with Smart search if you enter several search terms at once. The search terms will be connected by the default operator **AND**.

Moreover, if you limit yourself to the default field identifiers, your query string can be both short and effective:

→ Enter ***air conditioner LG Electronics 2010 F24F1***.

- ✓ The search returns applications from ***LG Electronics*** with the words ***air conditioner*** in the title, which were published in 2010 and to which the CPC or IPC symbol ***F24F1*** has been assigned.

If you do not want to have your search terms connected with ***AND***, you must enter ***OR*** and use appropriate parentheses:

→ Enter ***air conditioner LG Electronics 2010 (F24F11 OR F25B13)***.

- ✓ The search returns applications from ***LG Electronics*** with the words ***air conditioner*** in the title, which were published in ***2010*** and to which the CPC or IPC symbol ***F24F11*** and/or ***F25B13*** has been assigned.

Using field identifiers in Smart search

Smart search reveals its full power when you combine search terms with field identifiers. Field identifiers enable you to phrase your query more precisely by assigning the search terms to specific bibliographic fields.

i A field identifier is an abbreviation for the bibliographic field to which the search for a specific term will be limited.

For a list of all field identifiers with examples, see the Reference.

Single field identifier

→ Connect the field identifier to the search term by an equal sign (=).

You can enter the = with or without additional blanks, e.g. **pa=Samsung** is equivalent to **pa = Samsung**. You may feel, however, that the structure of your query is clearer if the field identifiers are directly connected to the relevant search terms without any blanks.

The screenshot shows a search result list for the query 'pa = samsung'. The results are sorted by date of upload in the database. The first three results are:

1. Pulsator for washing machine				
★ Inventor: JEON JONG SU [KR] JANG HA YOUNG [KR] (+1)	Applicant: SAMSUNG ELECTRONICS CO LTD [KR]	CPC: IPC:	Publication info: USD730603 (S1) 2015-05-26	Priority date: 2014-01-03

2. Washing machine				
★ Inventor: CHOI HYOUNG-SUB [KR] HWANG JUNG-HOON [KR] (+3)	Applicant: SAMSUNG ELECTRONICS CO LTD [KR]	CPC: IPC:	Publication info: USD730602 (S1) 2015-05-26	Priority date: 2013-04-11

3. Door for washing machine				
★ Inventor: JINNAM KIM [KR] MINHYOUNG BOO [KR] (+4)	Applicant: SAMSUNG ELECTRONICS CO LTD [KR] SAMSUNG ELECTRONICS CO LTD [KR]	CPC: IPC:	Publication info: USD730601 (S1) 2015-05-26	Priority date: 2012-08-29

Search results for applicant Samsung

Multiple field identifiers

You can use one or more field identifiers in your search query. The more identifiers and keywords you use, the more precise your search results will be.


→ Enter **pa=novartis** to find applications filed by Novartis.

Keywords are not case-sensitive if used together with field identifiers, i.e. names can be entered in lowercase.

→ Enter **pa=novartis ti=diabetes** to find applications by Novartis where the word diabetes appears in the title.

The default operator is **AND**, i.e. hits will include both terms in the indicated fields.

→ Enter **pa=novartis ti=diabetes pd=2013** to find applications by Novartis published in the year 2013 where the keyword diabetes appears in the title.

Result list 

Select all (0/4) Compact Export (CSV|XLS) Download covers Print

4 results found in the Worldwide database for:
(pa = Novartis and ti = diabetes) and pd = 2013 using Smart search

Sort by Sort order

1. **GLYCOSIDE DERIVATIVES AND THEIR USES FOR THE TREATMENT OF DIABETES.**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BEBERNITZ GREGORY RAYMOND [US]	NOVARTIS AG [CH]	C07D405/10 C07F9/65586	A61K31/70 A61P3/10 C07D405/10	MX 2013/011927 (A) 2013-11-01	2011-04-14

2. **ADAMANTYL O-GLUCURONIDE DERIVATIVES AS INHIBITORS OF DIPEPTIDYL PEPTIDASE IV FOR THE TREATMENT OF DIABETES**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KITTELMANN MATTHIAS [DE] HASSIEPEN ULRICH [DE]	NOVARTIS AG [CH]	B41J2/17593 C07H15/26	A61K31/7056 A61P3/10 C07H15/26	PT2247602 (E) 2013-07-10	2007-11-30

3. **Monocyte-derived islet (mdI) cell, method of generating the same and use thereof in the preparation of a medicament for treating diabetes**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	NOVARTIS AG [CH] OPEXA THERAPEUTICS [US] (+1)	C12N2500/25 C12N2500/34 C12N2500/38 (+9)	C12N5/071	IL195114 (A) 2013-11-28	2006-05-05

4. **3-Cycli-2-(4-sulfamoyl-phenyl)-n-cycli-propionamide derivatives useful in the treatment of impaired glucose tolerance and diabetes**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BEBERNITZ GREGORY RAYMOND [US]	NOVARTIS AG [CH]	C07D213/75 C07D213/80 C07D215/38 (+12)	C07D211/62 C07D213/75 C07D239/42 (+5)	EP2554540 (A2) 2013-02-06 EP2554540 (A3) 2013-05-22	2005-09-30

Search results for applications by Novartis published in 2013 concerning diabetes

Multiple keywords for a field identifier

If your search term consists of more than one word in a specific order, the words must be enclosed in inverted commas (quotation marks). Otherwise, the search engine uses the default search criterion for those search terms which are not directly connected to a field identifier.

→ Enter **ti="diesel engine"**.

✓ Applications with the word sequence **diesel engine** in the title are found.

→ Enter ***ti=diesel engine***.

Resulting search term(s): ***ti = diesel and txt = engine***.

- ✓ Applications with the word ***diesel*** in the title and the word ***engine*** anywhere in the title, in names or in the abstract are found.

Searching with Advanced search

Advanced search allows you to find patent applications using more than one search criterion, for example:

- Applications from a specific applicant in a particular year
- Applications from a particular applicant with specific words in the title or abstract
- Applications by a specific inventor that fall under a specific classification symbol

By default, **Advanced search** uses the Espacenet Worldwide collection.

→ To limit your search to a full-text database (Worldwide-DE, Worldwide-EN and Worldwide-FR), change the option in the drop-down list as appropriate.

The **Advanced search** screen provides ten separate search fields for the Worldwide collection, with the keyword search fields **Title** and **Title and abstract**. The full-text collections have nine separate search fields, with one single keyword search field for searching in the **title, abstract and full text**. These fields are grouped by the type of criterion:

- Keywords (must be entered in English for the Worldwide database. English, French and German keywords can be entered in the full-text databases Worldwide-DE, Worldwide-EN and Worldwide-FR).
 - Title (Worldwide only)
 - Title or abstract (Worldwide only)
 - Title, abstract and full text (Worldwide-DE, -EN, -FR only)
- Numbers
 - Publication number
 - Application number
 - Priority number
- Dates
 - Publication date
- Names (persons or organisations)
 - Applicant(s)
 - Inventor(s)
- Classification
 - CPC
 - IPC

When you enter multiple search terms, the default operators are applied according to the following rules:

- Numbers and dates use **OR** within the same field.
- Keywords, names and classifications use **AND** within the same field.
- Combining the fields always uses **AND**.

Running a search with combined search criteria

→ Enter the search terms in the appropriate fields using the appropriate operators.

Example: You want to find documents published in 2012 in the United States or Canada where the applicant is Samsung and the keywords dual sim occur in the title.

→ In the **Title** field, enter **dual sim**.

No operator is required because **AND** is the default operator for search terms in text fields.

→ In the **Publication number** field, enter **us ca**.


No operator is required because **OR** is the default operator for search terms in number fields.

→ In the **Publication date** field, enter **2012**.

→ In the **Applicant(s)** field, enter **samsung**.

→ To delete all the search terms from all the fields, click **Clear**.

→ To run the query, click **Search** or hit the **Enter (Return)** key.



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Query history
Settings
Help

Smart search

Advanced search

Classification search

Quick help

→ [How many search terms can I enter per field?](#)

→ [How do I enter words from the title or abstract?](#)

→ [How do I enter words from the description or claims?](#)

→ [Can I use truncation/wildcards?](#)

→ [How do I enter publication, application, priority and NPL reference numbers?](#)

→ [How do I enter the names of persons and organisations?](#)

→ [What is the difference between the IPC and the CPC?](#)

→ [What formats can I use for the publication date?](#)

→ [How do I enter a date range for a publication date search?](#)

→ [Can I save my query?](#)

Related links +

Advanced search

Select the collection you want to search in [\[i\]](#)

Worldwide - collection of published applications from 90+ countries

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

Enter keywords in English

Title: [\[i\]](#) plastic and bicycle

[\[i\]](#) dual sim

Title or abstract: [\[i\]](#) hair

Enter numbers with or without country code

Publication number: [\[i\]](#) WO2008014520

[\[i\]](#) us ca

Application number: [\[i\]](#) DE19971031696

Priority number: [\[i\]](#) WO1995US15925

Enter one or more dates or date ranges

Publication date: [\[i\]](#) yyyyymmdd

[\[i\]](#) 2012

Enter name of one or more persons/organisations

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

[\[i\]](#) samsung

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

Enter one or more classification symbols

CPC [\[i\]](#)

IPC [\[i\]](#) H03M1/12

Clear Search

Entering search terms in the Advanced search screen

Entering search terms

The following rules apply to entering search queries in **Smart search** or **Advanced search** in general (see separate instructions for spelling rules):

Number of search terms

- A maximum of ten terms per searchable bibliographic data (e.g. publication number) are allowed.
- 20 terms in total are allowed.
- Terms reserved for operators (**AND, OR, NOT, ALL, ANY**) can be used only in connection with other keywords and not as a single search term.
- A maximum of 19 operators can be entered together with a maximum of 20 search terms.

If the number of terms that you enter exceeds these limits, the **Invalid query** screen will display an error message to that effect.

Spacing and blocking of search terms

- Use spaces or commas to separate multiple terms, e.g. **diesel engine** or **diesel,engine**.
- Use inverted commas (quotation marks) (") to enclose multiple terms if the precise word order is to be respected, e.g.:
 - In Smart search, enter **ti = "laser scanning microscope"**.
 - In Advanced search, enter **"laser scanning microscope"** in the appropriate field.
- Make sure that you do not exclude results that may be relevant. For example, a search for **"interactive toy"** will exclude applications with the title **"interactive talking toy"**.

Upper and lower case

- Search terms are not case-sensitive if entered in combination with a field identifier in **Smart search**, e.g. **pa = siemens** or if entered in the search fields dedicated to names in **Advanced search**, e.g. the **Applicant(s)** field.
- If entered without a field identifier in **Smart search**, terms that should be treated as names must be written with a leading capital letter. Only the first letter must be in uppercase, regardless of the official spelling of a name, e.g. **Jura** is equivalent to **JURA**.

Limitations on searching with keywords

- Not every part of some very old documents is indexed, so such documents may be hard to find using keywords.
- Some documents do not have translated titles or abstracts. This mainly applies to documents published before 1970 and to very recent submissions for which translations are not yet available. For this reason, you will not find them using English keywords. You will have to use other search criteria such as classification.
- If documents are published in languages that use non-Latin alphabets (e.g. Cyrillic, Greek or Japanese), names are not searchable, and neither are the title and abstract if they have not been translated into English.
- Not all documents have a Cooperative Patent Classification (CPC) symbol allocated to them, or the CPC symbol has not been assigned yet. In that case, a patent application will not be found if a search term in the **CPC** search field (in Advanced search) or an appropriate field identifier (in Smart search) is assigned.

Spelling search terms

When searching in Espacenet, there are general rules for spelling keywords. Some particular rules apply only to the Worldwide database or to the full-text databases.

Language of keywords

Using English terms will yield the highest number of results, because titles and abstracts of most patent applications are available at least in English. However, searching in another language may be advantageous in certain cases, for example if the title or abstract has been supplied by a national patent office without an English translation.

Worldwide database (default)

- When searching in the title or abstract in the Worldwide database, you should enter your keywords only in English.

Full-text databases (Worldwide-DE, Worldwide-EN, Worldwide-FR)

- When searching in the title, abstract or full text in the full-text databases, you can enter your keywords in the corresponding languages of these databases.
- When searching in the full text (i.e. description and claims), you will only find applications that have been filed in the language in which you enter the search terms.
- To find language variations in the databases, you can enter your search term in different languages connected by the **OR** operator.
 - In Smart search, enter **ti=keyboard OR ti=clavier OR ti=tastatur**.
 - In Advanced search, enter **keyboard OR clavier OR tastatur** in the appropriate field.
 - Consider different translations and grammatical forms of a term if you do not find what you expect.

Diacritics and ligatures

i Diacritics are umlauts and characters with accents, tildes or cedillas (**ä, ö, ü, é, è, ê, ñ, ç** and the like). Ligatures are characters that have historically been joined from two characters but are now one character (**œ, æ, ß** and the like).

Search terms containing diacritics and ligatures can be entered in Espacenet, but they will retrieve different search results.

- When searching for a name in **Advanced search** in the **Applicant(s)** or **Inventor(s)** field:
 - ✓ the search ignores the diacritic or ligature and searches for the term in either spelling, e.g. **bäcker** or **backer**, **lefèvre** or **lefevre**, **großmann** or **grossmann**.
- When searching for a name in **Smart search** using a capitalised search term:
 - ✓ the search engine identifies capitalised words with diacritics as text and capitalised words without diacritics as names. The corresponding field identifier is applied, retrieving similar, but not identical search results.
 - **Lefèvre** will be treated as **txt = Lefèvre**
 - **Lefevre** will be treated as **ia = Lefevre**
- When using a field identifier in **Smart search**:
 - ✓ both spellings will return the same result, e.g. **ia=großmann** and **ia=grossmann**.

Special characters

Many names or technical terms contain special characters like hyphens (-), apostrophes (’), forward slashes (/) or ampersands (&).

- When searching in the Worldwide database, search terms with special characters do not retrieve any results.
 - Replace special characters with blank spaces and group the words with quotation marks, e.g. enter
 - **"x ray"** instead of **x-ray**
 - **"Procter Gamble"** instead of **Procter&Gamble**.
- When searching in the full-text databases, special characters can be entered, apart from the following forbidden special characters.

Forbidden special characters

The special characters question mark (?), asterisk (*) and hash (#) are not allowed because these characters are reserved as wildcards for the truncation search. Other forbidden characters are plus (+), colon (:), and per cent (%).

If you enter a search term containing a forbidden character, the **Invalid query** screen will display an error message to that effect.

Searching with keywords in the title or abstract

Searching in the title will produce fairly precise results, whereas searching in the title or abstract will include a broader set of results.

The **title** is the technical designation of an invention and consists of a short text, often one sentence, summarising the contents of the application. In the case of documents not originally written in English, the title is often an English translation of the title of the document published.

→ If you know the exact term or terms contained in the title of the patent document you are searching for, enter this/these in the **Title** field (Advanced search) or use the **ti** field identifier (Smart search).

✓ The keywords are highlighted in the title, but not in the abstract.

Bibliographic data: US2015166138 (A1) — 2015-06-18

★ In my patents list Previous ◀ 2/500 ▶ Next ⌕ EP Register 🚨 Report data error 🖨 Print

THREE-WHEELED ELECTRIC SCOOTER

Page bookmark [US2015166138 \(A1\) - THREE-WHEELED ELECTRIC SCOOTER](#)

Inventor(s): LOVLEY II JACK B [US]; KLINGL JOSEPH C [US]; GROENHUYZEN MARK [US]; EDLAUER KENNETH [US] ±


Applicant(s): BRAVO SPORTS [US] ±

Classification: - international: [B62K5/05](#); [B62K5/08](#)
 - cooperative: [B62K5/05](#); [B62K5/08](#); [B62K2202/00](#)

Application number: US201414574154 20141217

Priority number(s): US201414574154 20141217 ; [US201361917885P 20131218](#)

Abstract of US2015166138 (A1)

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

A scooter having at least two front wheels, a rear wheel, a deck, a steering assembly that includes a handlebar and a steering tube, an electric motor configured to provide power, and a transmission configured to transfer the power provided by the electric motor. The transmission can be configured to transfer the power provided by the electric motor only to the rear wheel. In some configurations, the scooter includes a battery, a power switch, and a controller coupled to the power switch, the battery, and the electric motor. In response to receiving a signal from the power switch, the controller ramps up the voltage provided to the electric motor over an interval of time.

Keywords found in the title of an application

The **abstract** of a patent document is a concise summary of the invention contained in the description, the claims and drawings. It may, however, also be the English translation of the abstract of a document which was not originally written or published in English.

→ If you want to restrict the search to the abstract, use the **ab** field identifier in Smart search.

Advanced search, however, does not provide a dedicated field for the abstract.

→ If you are uncertain whether a term you are searching for is actually contained in the title of a document or its description, enter the term(s) in the **Title or abstract** field (Advanced search) or use the **ta** field identifier (Smart search).

✓ The keywords are highlighted in both the title and the abstract.

Bibliographic data: TW201505893 (A) — 2015-02-16

★ In my patents list Previous ◀ 9/500 ▶ Next ▶ EP Register Report data error Print

Motor scooter

Page bookmark [TW201505893 \(A\) - Motor scooter](#)

Inventor(s): ANEMA TAECKLE JAN [NL]; VAN BREUGEL TIM [NL]; SCHUTTE JOHANNES [NL] ±

Applicant(s): HARTMOBILE BV [NL] ±

Classification: - international: **B62K11/02**; **B62M6/90**
 - cooperative: **B62K11/10**; **B62K2202/00**; **B62K2204/00**; **B62K2208/00**

Application number: TW20140111845 20140328

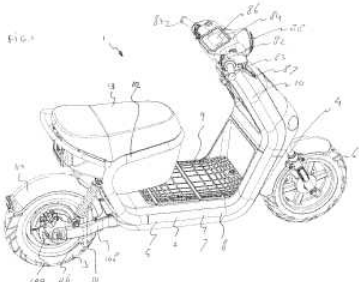
Priority number(s): [WO2013EP56755 20130328](#)

Also published as: [WO2014154295 \(A1\)](#)

Abstract of TW201505893 (A)

Translate this text into powered by EPO and Google

Motor **scooter** (1) comprising a main frame (2) with frame sections (23) at least partly extending along an outline of the motor **scooter**, the frame sections being bridged by cross members (16-20) supporting **electric** drive modules (56, 58) between the frame sections. The frame sections (23) can for example form a one-piece tubular loop (7). The **electric** drive modules can for example include one or more removable batteries (58) and/or power electronics (56) and/or a charging unit (53).



Keywords found in the title and abstract of an application

Searching with names

Patent applications can be filed under both the name of a person (i.e. a natural person) and that of an organisation (i.e. a legal entity).

When searching with names, select the search function which suits your purpose best:

- If you do not know whether the person or organisation you are looking for is an applicant or inventor, use the **Smart search** function.
- If you know the role of the person or organisation to be queried, use the **Advanced search** function and enter the name in the corresponding field.

i Names are not case-sensitive when entered in one of the name fields in **Advanced search** or when entered together with the appropriate field identifier in **Smart search**.

Standardised and unstandardised names

When you search for an applicant or inventor name, the Espacenet search engine looks for both the unstandardised name and the standardised name in the database:

- The **unstandardised name** is the name as entered by the applicant in the Request for grant form. This is the name that will be shown on the original document.
- The **standardised name** is the name as assigned by the EPO. This is the name that will be shown in the result list and in the bibliographic data, even though the name on the original document might be the unstandardised name.
- Names are always shown in capital letters, regardless of the original spelling.

Example

A company may have been assigned a different name to the one you are thinking of, for example:

- Enter **Nikon** or **NIKON** in the **Applicant(s)** field in Advanced search.
 - ✓ Most hits in the result list show **NIPPON KOGAKU KK**, which is the standardised name for **NIKON CORPORATION** or **NIKON CORP**.

Result list

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 58,273 results found in the Worldwide database for: Nikon as the applicant 1 ▶
 Only the first 500 results are displayed.

Results are sorted by date of upload in database

1. **ACCESSORY, CAMERA, ACCESSORY SHOE AND CONNECTOR**

★ Inventor: MOTOKI YASUYUKI OZONE AKIHIRO (+2)	Applicant: NIPPON KOGAKU KK [JP]	CPC:	IPC: G03B17/00	Publication info: BR102012015921 (A2) 2015-06-23	Priority date: 2011-06-30
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2. **ELECTRONIC DEVICE AND PROGRAM**

★ Inventor: SHIGA HIROMU [JP] UCHIYAMA YOJI [JP] (+6)	Applicant: NIPPON KOGAKU KK [JP]	CPC:	IPC: G06F21/31 G06F21/32 G06F21/62 (+3)	Publication info: WO2015093221 (A1) 2015-06-25	Priority date: 2013-12-20
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3. **SUBSTRATE, IMAGING UNIT AND IMAGING DEVICE**

★ Inventor: SUGANUMA RYOICHI [JP] ARIMA HIROFUMI [JP] (+2)	Applicant: NIPPON KOGAKU KK [JP]	CPC: H01L2224/48091 H01L2224/48227 (+19)	IPC: H01L27/146 H05K1/02 H05K1/03 (+3)	Publication info: US2015181698 (A1) 2015-06-25	Priority date: 2012-06-22
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4. **ELECTRONIC CAMERA**

★ Inventor: TSUDA YUTAKA [JP]	Applicant: NIPPON KOGAKU KK [JP]	CPC: H04N1/2141 H04N2/101/00 H04N5/23222 (+2)	IPC: H04N5/225 H04N5/232 H04N101/00	Publication info: US2015181119 (A1) 2015-06-25	Priority date: 2010-04-15
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Search results showing the standardised name of the applicant

- To see the unstandardised name in the bibliographic data, click on the relevant application title.
- Click on the + icon to the right of the applicant's name.
- ✓ The unstandardised name is displayed.

Bibliographic data: US2015181698 (A1) — 2015-06-25

★ In my patents list Previous ◀ 3/500 ▶ Next ↗ EP Register Report data error Print

SUBSTRATE, IMAGING UNIT AND IMAGING DEVICE

Page bookmark [US2015181698 \(A1\) - SUBSTRATE, IMAGING UNIT AND IMAGING DEVICE](#)

Inventor(s): SUGANUMA RYOICHI [JP]; ARIMA HIROFUMI [JP]; SUZUKI SATORU [JP]; SATO TAKUYA [JP] ±

Applicant(s): NIPPON KOGAKU KK [JP] + (NIKON CORPORATION)

Classification: - international: [H01L27/146](#); [H05K1/02](#); [H05K1/03](#); [H05K1/05](#); [H05K1/11](#); [H05K1/18](#)

Applicant's unstandardised name in the bibliographic data

Name of previous applicant

If your search does not return the expected results for an applicant's name, the reason may be that these patents have been sold to another company or that the applicant uses a different name today. However, the name of the applicant at the date of filing remains registered in the database and therefore accurate information about new

applicants/patent holders is not available in Espacenet. As far as EP and Euro-PCT documents are concerned, you can search in the European Patent Register, where the original applicant's name too will be retrieved from the file history.

Entering names of natural persons

Both the applicant for a patent and the inventor of an object can be an individual or more than one person. The applicant may also, but need not, be the inventor.


The entries for natural persons consist of the surname and first name:

- The surname precedes the first name in most cases, e.g. **Miller Christopher**.
- A comma is frequently placed after the surname, e.g. **Miller, Christopher**.
- First names of applicants are often abbreviated, e.g. **Miller C**.
- Any middle name is placed third, e.g. **Miller Christopher Francis**.
- The middle name is frequently abbreviated, too, e.g. **Miller Christopher D**.

When you search for a person's full name, the surname and the name should be in the correct sequence and enclosed in quotation marks.

For example, to find an inventor called **Christopher Miller**, do the following:

- In Advanced search, enter **"Miller Christopher"** in the **Inventor(s)** field.
- In Smart search, enter **in="Miller Christopher"**.
- ✓ The result list includes hits with persons having a middle name.

Result list 

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 892 results found in the Worldwide database for:
"Miller Christopher" as the inventor
 Only the first 500 results are displayed. ◀ 1 2 ▶

Results are sorted by date of upload in database

26. METHOD AND APPARATUS FOR MULTIPLEXED FABRY-PEROT SPECTROSCOPY

★ Inventor: YETZBACHER MICHAEL K [US] MILLER CHRISTOPHER W [US] (+2)	Applicant: US GOVERNMENT [US]	CPC: G01J3/26 G01N21/41	IPC: G01N21/41	Publication info: WO2014189995 (A2) 2014-11-27 WO2014189995 (A3) 2015-01-22	Priority date: 2013-05-21
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27. Device of Human Conveyance

★ Inventor: PRIOR GREGORY R [US] MILLER CHRISTOPHER PHILLIP [US]	Applicant: MINDWORKS HOLDINGS LLC [US]	CPC: A63C17/01 A63C17/12 A63C17/285 (+2)	IPC: B62M1/32	Publication info: US2014327225 (A1) 2014-11-06	Priority date: 2007-03-15
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28. ONE PIECE DISPENSING COMPONENT

★ Inventor: WANG PING MILLER CHRISTOPHER MILES	Applicant: PROCTER & GAMBLE [US]	CPC: B29C2791/001 B29C45/0081 B29C49/06 (+8)	IPC: B65D35/10 B65D35/42 B65D35/44	Publication info: BRPI0810106 (A2) 2014-10-21	Priority date: 2007-04-05
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Search results for inventor with surname and first name

- To see the unstandardised name in the bibliographic data, click on the relevant application title.
- Click on the + icon to the right of the inventor's name.
 - ✓ The unstandardised name is displayed.

Bibliographic data: BRPI0810106 (A2) — 2014-10-21

★ In my patents list Previous ◀ 28 / 500 ▶ Next ✕ EP Register Report data error Print

ONE PIECE DISPENSING COMPONENT

Page bookmark BRPI0810106 (A2) - ONE PIECE DISPENSING COMPONENT

Inventor(s): WANG PING; MILLER CHRISTOPHER MILES + (PING WANG, ; CHRISTOPHER MILES MILLER)

Applicant(s): PROCTER & GAMBLE [US] ±

Inventor's name as originally entered, in this example the sequence first name > middle name > surname was used

Entering names of organisations

The applicant for a patent may be an individual or more than one person or an organisation such as a company or university.

The entry for an organisation is made up of all the words comprising the name of that organisation.

- Enter the words in the correct sequence and enclosed in quotation marks, e.g. **"British Aerospace"**.

Result list

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 2,773 results found in the Worldwide database for: **"British Aerospace"** as the applicant 1 ▶
Only the first 500 results are displayed.

Results are sorted by date of upload in database

1. **Schubstrahlauslass**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
FILLINFHAM THOMAS [GB] WHAITES COLIN [GB] (+1)	BRITISH AEROSPACE [GB]	B64C29/0066 F02K1/004 F05D2220/328 (+3)	B64C15/02 B64C29/00 F02K1/64	DE4007875 (A1) 2010-06-02	1989-03-14

2. **Jet propulsion efflux outlets**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ANGUS PETER [GB] ROGERS K [GB]	BRITISH AEROSPACE [GB] BAE SYSTEMS PLC [GB]	B64C15/02 B64C15/14 (+6)	B64C15/02 B64C15/14 B64C29/00 (+1)	GB2469615 (A) 2010-10-27 GB2469615 (B) 2011-03-23	1990-03-21

3. **System for controlling flight attitude in vertical or short takeoff and landing aircraft, comprises nozzle, which is placed in propagaation arrangement such that flow of secondary air is carried along passage of propagaation arrangement**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BEST IAN DAVID [GB]	BRITISH AEROSPACE [GB]	B64C15/14	B64C15/14	DE2643391 (B3) 2009-09-10	1975-09-22

Search result for an applicant's name consisting of two words

Acronyms and abbreviations in organisations' names

Some company names are registered with the EPO under their full name, others under the acronym.

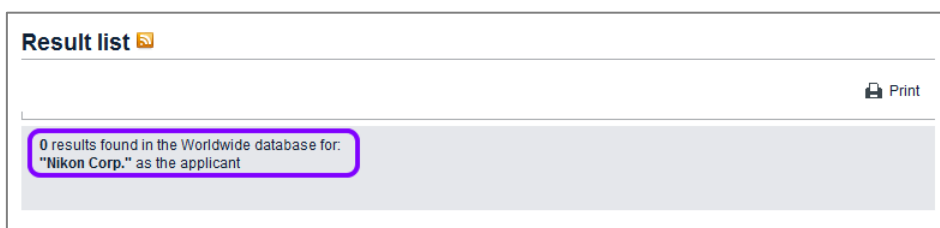
→ If you enter the full words, e.g. "**International Business Machines**", the result list shows the standardised name **IBM**.

Combinations of full words and abbreviations are also possible; e.g. if you enter "**Siemens Aktiengesellschaft**", the result list shows **Siemens AG**.

→ If you enter the acronym, e.g. **BMW**, the result list shows the standardised name **BAYERISCHE MOTOREN WERKE AG**.

However, abbreviated terms such as **AG**, **GmbH**, **Inc**, **Corp**, **Ltd** and the like should not be used as search terms. There are many different ways of spelling such parts of a company's name, but the search engine always uses the search terms exactly as you enter them.

→ If you enter an abbreviation using full stops, e.g. "**Nikon Corp.**", your search will not return any results.



No results found due to incorrect spelling of an abbreviation

Searching for inventors or applicants from a specific country


In most patent applications, the inventors and applicants are mentioned along with a two-letter code for their country of residence or principal place of business. You can include this information in your search to refine your results.





→ Enter the two-letter country code enclosed in square brackets, e.g. "**Miller Christopher**" **[GB]**.

You may also enter the two-letter code alone, but using square brackets will improve your search results.

✓ The result list shows hits for **Miller Christopher** and **[GB]**. Numbers in brackets indicate that there are more inventors listed in the bibliographic data.

→ To see all names, click on the title of the relevant application.

Result list 

Select all (0/13)  Compact  Export (CSV | XLS)  Download covers  Print

13 results found in the Worldwide database for:
"Miller Christopher" [GB] as the inventor

Sort by Sort order

1. **Window arrangement**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MILLER CHRISTOPHER [GB] WILKINS RUPERT [GB]	TREND MARINE PRODUCTS LTD [GB]	B63B19/00 E06B1/006 (+7)	B63B19/00 E06B3/02 E06B7/16 (+1)	GB2515339 (A) 2014-12-24	2013-06-21

2. **Device Having Dual Renewable Blades For Treating a Target Surface and Replaceable Cartridge Therefor**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
STEINHARDT MARK JOHN [US] CANNON WILLIAM MICHAEL [US] (+10)	STEINHARDT MARK JOHN [US] CANNON WILLIAM MICHAEL [US] (+10)	A47L1/06 A47L1/08	A47L1/08 A47L13/00	US2012266399 (A1) 2012-10-25 US8495784 (B2) 2013-07-30	2011-04-21

3. **METHOD AND APPARATUS FOR PARTITIONING VIRTUAL WORLDS USING PRIORITIZED TOPIC SPACES IN VIRTUAL WORLD SYSTEMS**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
RENSHAW DAVID SEAGER [GB] SHARP CHRISTOPHER EDWARD [GB] (+2)	IBM [US]	A63F13/12 A63F2003/0439 A63F2300/534 (+9)	G06Q50/00	KR20100051014 (A) 2010-05-14	2008-11-06

4. **METHOD AND APPARATUS FOR HOSTING A DISTRIBUTED VIRTUAL WORLD SYSTEM**

Search results for an inventor from a specific country

✓ The name and country code you were looking for are displayed.

Bibliographic data: KR20100051014 (A) — 2010-05-14

★ In my patents list Previous 3/13 Next  Global Dossier  Report data error  Print

METHOD AND APPARATUS FOR PARTITIONING VIRTUAL WORLDS USING PRIORITIZED TOPIC SPACES IN VIRTUAL WORLD SYSTEMS

Page bookmark [KR20100051014 \(A\) - METHOD AND APPARATUS FOR PARTITIONING VIRTUAL WORLDS USING PRIORITIZED TOPIC SPACES IN VIRTUAL WORLD SYSTEMS](#)

Inventor(s): RENSCHAW DAVID SEAGER [GB]; SHARP CHRISTOPHER EDWARD [GB]; **MILLER CHRISTOPHER H [GB]**; CHAPMAN SYDNEY GEORGE [GB] ±

Applicant(s): IBM [US] ±

The bibliographical data shows all inventors' full names

Searching with numbers

Application numbers and publication numbers are unique IDs that are assigned to the patent document at the time of application and publication, thus clearly identifying a specific document. Priority numbers relate to earlier applications of the same patent family.

If you know the application number, the publication number or the priority number of a patent application, it is very easy to retrieve the file from Espacenet.

If you do not know what the number you are looking for represents or if you are unsure about the exact format, **Smart search** will serve your purpose best.

- In **Smart search**, enter the appropriate field identifier **ap** (application number), **pn** (publication number) or **pr** (priority number) together with your search term.
 - If you do not use a field identifier, the search engine will look in all three number fields, applying the default field identifier **num**.
 - If you run a query with multiple search terms and want to confine your search to a specific country code, add the appropriate field identifier and the two-letter code to your query, e.g. **ti="espresso machine" pr=IT**.
- In **Advanced search**, enter the number in the appropriate field: publication number, application number or priority number.
 - To retrieve all the documents having a particular country code, enter the country code (e.g. **GB**) in the relevant number field.

Application numbers

In Espacenet, the application numbers of all countries are standardised in one format, irrespective of the way in which they are printed on the original patent documents. For the majority of countries, application numbers in Espacenet consist of 13 characters following the format **CCYYYYnnnnnnn** and do not include the kind code.

CC country code, two letters

YYYY year of filing, four digits

nnnnnnn serial number, variable, maximum seven digits. Where necessary, the fixed length of 13 digits is achieved by inserting leading zeros.

Examples: TW20100106238 (original: 099106238), KR20127021522 (original: 10-2012-7021522), FR20130050819 (original: 13 50819)

i More recent numbers for Germany and for the United States of America consist of 14 characters, e.g. **DE201210100825**, **US201514639715**.

Exceptions to the Espacenet standard

Twelve countries/organisations use application numbers in different formats: Australia (AU), Germany (DE), China (CN), Brazil (BR), Ukraine (UA), Gulf Council (GC), Hungary (HU), India (IN), Italy (IT), Mexico (MX), OAPI (OA) and WIPO (WO).

Their application numbers are made up of various combinations of these elements:

- CC** country code, two letters
- YYYY** year of filing, four digits
- LL** "other" information, one or two characters, e.g. region for India, country for international PCT applications
- nnnnn** or **nnnnnn** serial number, five or six digits

Examples: CN20131658887, IN2013CH06130, BR20141005228, IT2013MI00351

EP application numbers

- To find an EP application number in Espacenet, type it in one of these formats:
 - four-digit year, e.g. **EP2007109822**
 - two-digit year, e.g. **EP07109822**
 - two-digit year, omitting the EP country code, e.g. **07109822**
 - two-digit year, omitting the EP country code and adding a check digit, e.g. **07109822.2**

WO (PCT) application numbers

- To find an international WO (PCT) application number in Espacenet, type it in the format **WOYYYYCCnnnnn** (13 characters), omitting the slashes and, where necessary, removing leading zeros.
 - To find **PCT/IB2007/51010**, type in **WO2007IB51010**.
 - To find **PCT/MX2007/000062**, type in **WO2007MX00062**.

WO (PCT) application numbers in the 13-character single format consist of:

- WO** country code, replacing the letters **PCT** from the original application number
- YYYY** year of filing, four digits
- CC** country code of the country where the application was filed, two letters

nnnnn serial number, five digits

Kind codes

- Do not enter the standard kind codes **A**, **B** or **C**, as these types of document are automatically retrieved.
- To retrieve other documents like utility models or reissued patents from certain countries, enter the appropriate kind code at the end of the application number, e.g. **ES1005422U**, **DE20152001346U**, **KR19910000410U**.

The countries concerned are: Austria (AT), Chile (CL), China (CN), Denmark (DK), Finland (FI), Germany (DE), Japan (JP), Korea (KR), Norway (NO), Poland (PL), Romania (RO), Serbia and Montenegro (YU), Spain (ES), Sweden (SE), Taiwan (TW), Netherlands (NL) and Turkey (TR).

Publication numbers

In Espacenet, publication numbers are generally made up of a two-letter country code and a variable serial number of 1 to 12 digits, e.g. **DE202004009768**, **CH708196**, **ES2525965**.

The serial number in a US publication number consists of 11 digits, e.g. **US20040046892**.

- When typing a publication number, do not leave any spaces between the country code and the number.
- Do not omit leading zeroes from the serial part of the publication number.

EP publication numbers

- To enter an EP publication number, type in the two-letter **EP** country code and a seven-digit serial number, e.g. **EP1023455**.

WO (PCT) publication numbers

There are three different WO (PCT) publication number formats, depending on the year of publication.

1. **WOyynnnnnn** (from 1978 until 30 June 2002)
2. **WOyynnnnnn** (1 July 2002 to 31 December 2003)
3. **WOYYYYnnnnnn** (single format, since 1 January 2004)

You can use any of these formats to enter WO (PCT) publication numbers in Smart search or Advanced search.

- Where the single format applies, enter the four-digit year or the two-digit year plus the serial number, e.g. **WO2014178204** or **WO14178204**.
- To use the single format for a publication number issued earlier, add the first two digits to the year and a leading zero to the serial number, e.g. instead of **WO9935053** enter **WO1999035053**.

Kind codes

Entering kind codes for publication numbers is recommended for these countries: Austria (AT), Chile (CL), China (CN), Germany (DE), Denmark (DK), Spain (ES), Finland (FI), Japan (JP), Korea (KR), Netherlands (NL), Norway (NO), Poland (PL), Romania (RO), Sweden (SE), Turkey (TR), Taiwan (TW), Serbia and Montenegro (YU).

- If you know the kind code, enter it at the end of the number, e.g. **ES1005422U**.

Priority numbers

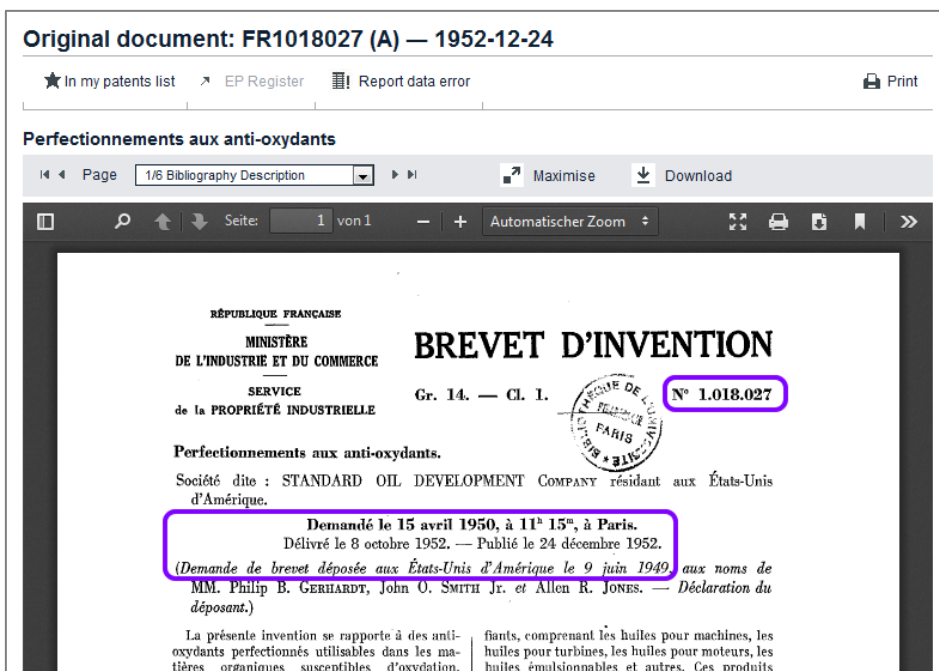
Searching for a priority number will retrieve all documents having this priority number in their bibliographic data, i.e. the members of a patent family. Priority numbers are composed in the same way as application numbers.

- To search for patent documents with the same priority number, enter the application number of the earlier application in the priority number field, e.g. **WO2001US46442**.
- To search for a priority number that includes the kind code (except the standard kind codes A, B or C), enter the appropriate character at the end of the priority number, e.g. **KR19910000410U**.

Numbers of historical patent documents

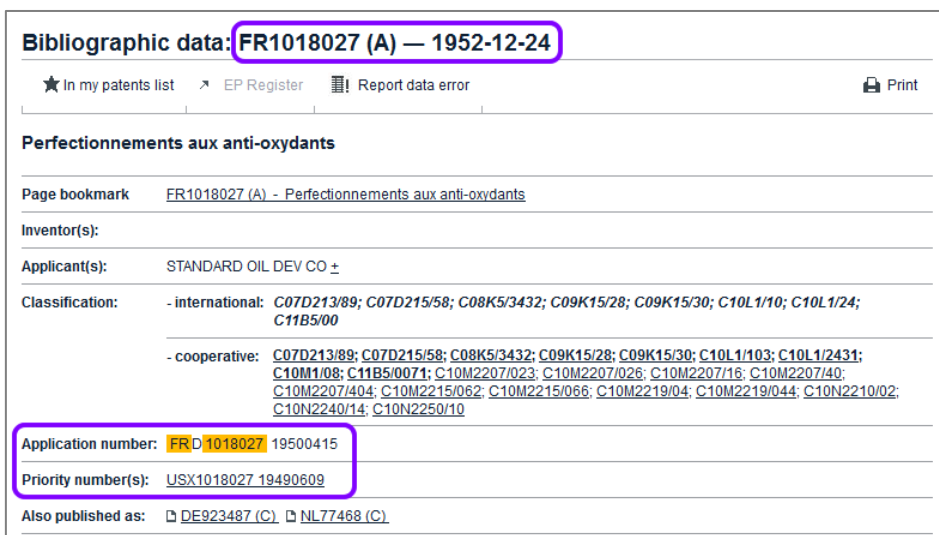
Some documents in Espacenet may contain an **X** after the country code of the priority number. This is the case in older publications for which the priority country code and priority date are known and recorded but the original application number is not. In such cases a "semi-technical" priority number is created by taking the numerical part of the (dummy) application number and attaching this number to the known country code and the letter **X**.

For example, the original document of publication number **FR1018027** does not mention an application number, but it mentions the date of filing (15 avril 1950) and an earlier application in the United States of America (9 juin 1949).



Example of a patent document published in 1952, application filed in 1950 and US priority application dated 1949

Thus, in Espacenet the dummy application number of this patent document is **FRD1018027** and the priority number is **USX1018027** – both using the same serial part as the publication number.



Example of a patent publication with dummy application number and "semi-technical" priority number

Searching with dates

By adding a date criterion to your query you can limit your search to a date or date range, for example when searching for applications in a specific technical field. Using a date as the only search criterion will return a large number of rather unspecific results.

Espacenet provides one dedicated field identifier and one dedicated search field only for the publication date. However, you can search for the filing date and the priority date in the **Application number** and **Priority number** fields.

Depending on your intention, you can enter a date as year, month or day in one of the admissible formats.

Smart search

In Smart search, the search engine interprets any search term which is entered in date format as being the publication date.

- To search with the publication date, enter the date without a field identifier.
- To search with the filing date, enter the date with the field identifier **ap** (application number).
- To search with the priority date, enter the date with the field identifier **pr** (priority number).


Advanced search

- To search with the publication date, enter your search term in the **Publication date** field.
- To search with the filing date, enter the search term in the **Application number** field.
- To search with the priority date, enter the search term in the **Priority number** field.

Publication date

The publication date is the date on which a patent application is first published, thereby making the patent document part of the state of the art.

In Espacenet, the publication date of Euro-PCT applications displayed in the bibliographic data refers to the document's (A0) publication date on the European publication server.

 Only the publication date of the A document is searchable.

If you do not know the exact date when searching with the publication date, it is recommended to enter a month rather than the day. If you enter a date which is not the precise day of the publication, then your search will return zero results.

Example: You want to find applications that have been published by the Swiss Patent Office in the months of January and February 2013.

→ In **Smart search**, enter **(201301 OR 201302) AND pn=CH**.

→ In **Advanced search**, enter **201301 201302** in the **Publication date** field and **CH** in the **Publication number** field.

No operator is required in the **Publication date** field, because the default operator for dates is **OR**.

Result list

Select all (0/25) Compact

Approximately 214 results found in the Worldwide database for:
(pd = 201301 OR pd = 201302) AND pn = CH using Smart search 1 ▶

Sort by: Sort order:

<input type="checkbox"/> 1. INVASIVE DISTRACTER					
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ROLD ORLANDO DA [CH] SADRI DR HASSAN [CH]	ROLD ORLANDO DA [CH]	A61B17/0206 A61B17/025 A61B17/6425 (+3)	A61B17/02 A61B17/64 A61B17/66	CH 705390 (B1) 2013-02-28	2004-05-25
<input type="checkbox"/> 2. Machine for termination of winding stems in watch, has stem whose loading points are arranged with set of maintaining elements, and rotary motorized axis that is controlled by digital control unit and arranged to screw stem in crown					
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
REICH LEON [CH]	HORMEC TECHNIC AG [CH]	G04D3/0002	G04D3/00	CH 705389 (B1) 2013-02-28	2007-10-18
<input type="checkbox"/> 3. Compact cable feedthrough with strain relief and shield connection					
★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
JENNY ALOIS [CH]	JENNY ALOIS [CH]	H02G15/007 H02G15/085 H02G3/0666	H02G15/007 H02G3/06 H05K5/02	CH 705387 (B1) 2013-02-28	2005-06-03

Search results for publication date and publishing office

Entering date ranges for the publication date

You can search for date ranges of the publication date in **Advanced search** and **Smart search**.

There are a number of alternative entry methods for date ranges. However, the easiest way is to enter the start date (day, month or year), followed by a colon and the end date.

Example: You want to find all applications filed by Apple published in between 1 January 2012 and 15 March 2012.

→ In **Smart search**, enter **Apple 20120101:20120315**.

→ In **Advanced search**, enter **Apple** into the **Applicant(s)** field and **20120101:20120315** into the **Publication date** field.

Filing date

The filing date of an application is the date on which it was validly filed, i.e. was deemed to fulfil the filing requirements of the office concerned.

Example: You want to find applications for coffee machines filed in October or November 2010.

- In Smart search, enter ***ti="coffee machine" AND (ap=201010 OR ap=201011)***.
- In Advanced search, enter ***"coffee machine"*** in the ***Title*** field and ***201010 201011*** in the ***Application number*** field.
- To see the filing date of an application, click on the relevant title link in the search results.
 - ✓ The ***Bibliographic data*** screen displays your search terms highlighted in yellow. The filing date in ***yyymmdd*** format can be found to the right of the application number.

Bibliographic data: US2012196009 (A1) — 2012-08-02

★ In my patents list Previous ◀ 8/56 ▶ Next ⓘ Global Dossier 📄 Report data error 🖨 Print

ESPRESSO MACHINE OR FULLY AUTOMATIC COFFEE MACHINE HAVING AUTOMATIC DETERMINATION OF THE GRAIN SIZE DISTRIBUTION AND/OR THE DEGREE OF GRINDING OF GROUND COFFEE

Page bookmark US2012196009 (A1) - ESPRESSO MACHINE OR FULLY AUTOMATIC COFFEE MACHINE HAVING AUTOMATIC DETERMINATION OF THE GRAIN SIZE DISTRIBUTION AND/OR THE DEGREE OF GRINDING OF GROUND COFFEE

Inventor(s): CASADO GOMEZ SEBASTIAN [DE]; GUSSMANN JOCHEN [DE] ±

Applicant(s): CASADO GOMEZ SEBASTIAN [DE]; GUSSMANN JOCHEN [DE]; WMF WUERTTEMBERG METALLWAREN [DE] ±

Classification: - international: *A23F5/08; A47J31/40; A47J31/42*
 - cooperative: *A47J31/404; A47J31/42; A47J31/52*

Application number: US201013261252 **20101013**

Priority number(s): *DE20091049229 20091013 ; WO2010EP06273 20101013*

Viewing the filing date in the Application number row of the Bibliographic data screen

Priority date

The priority date is the filing date of the very first patent application for a particular invention. Within 12 months of that first filing, a subsequent patent application for the same invention can be filed claiming this "priority right".

Example: You are interested in espresso machines in general and want to find applications for which a priority application was filed in the year 2012.

- In Smart search, enter ***ta=espresso ta=machine pr=2012***.

→ In Advanced search, enter **espresso machine** in the **Title or abstract** field and **2012** in the **Priority number** field.

✓ The priority date is displayed in the search result list.

Result list

Select all (0/25) Compact Export (CSV|XLS) Download covers Print

Approximately 40 results found in the Worldwide database for:
espresso machine in the title or abstract AND 2012 as the priority number 1 ▶

Sort by: Sort order:

<input type="checkbox"/>	1. COFFEE MACHINE					
★	Inventor: GORT-BARTEN ALEX [GB]	Applicant: GORT-BARTEN ALEX [US]	CPC: A47J31/0642 A47J31/0647 A47J31/0673 (+1)	IPC: A47J31/06	Publication info: US2015135968 (A1) 2015-05-21	Priority date: 2012-06-22
<input type="checkbox"/>	2. Espresso machine with Americano feature					
★	Inventor: GRASSIA ROBERT	Applicant: BREVILLE R & D PTY LTD	CPC: A47J31/0652 A47J31/3671	IPC: A47J31/36 A47J31/41	Publication info: AU2013308405 (A1) 2015-03-19	Priority date: 2012-08-30
<input type="checkbox"/>	3. Super-automatic coffee maker for preparation of espresso coffee					
★	Inventor: CEOTTO BEPPINO ROSSETTO GIOVANNI	Applicant: CMA MACCHINE PER CAFFE S R L	CPC: A47J31/42	IPC: A47J31/42	Publication info: AU2013311631 (A1) 2015-03-05	Priority date: 2012-09-07

Search results for keywords and priority date

A patent application may have multiple priorities, but only the earliest priority date is relevant for the search and will be displayed in the result list.

→ To check if there are more priorities in the bibliographic data, click on the title link of the relevant application.

✓ The **Bibliographic data** screen displays your search terms highlighted in yellow. The priority date in **yyyymmdd** format can be found to the right of the corresponding priority number.

Bibliographic data: AU2013311631 (A1) — 2015-03-05

★ In my patents list Previous 3/40 Next EP Register Report data error Print

Super-automatic coffee maker for preparation of espresso coffee

Page bookmark [AU2013311631 \(A1\) - Super-automatic coffee maker for preparation of espresso coffee](#)

Inventor(s): CEOTTO BEPPINO; ROSSETTO GIOVANNI ±

Applicant(s): CMA MACCHINE PER CAFFE S R L ±

Classification: - international: [A47J31/42](#)
- cooperative: [A47J31/42](#)

Application number: AU20130311631 20130906

Priority number(s): [IT 2012 PN00050](#) [2012 0907](#); [WO2013EP68455](#) [20130906](#)

Also published as: [WO2014037495 \(A1\)](#) → [ITPN20120050 \(A1\)](#) → [ITMI20131461 \(A1\)](#) [CN104619218 \(A\)](#)

Viewing additional priority data in the Bibliographic data screen

Searching with classification symbols

Searching with classification symbols offers advantages over searching with keywords. The results of searching with keywords are less precise the further your choice of words differs from that of the applicant. Certain documents cannot be found with a keyword search because you cannot search for keywords in documents without a title or abstract. However, if these documents have a classification symbol, they can be found using that symbol.

You should bear in mind that when you search with a CPC or IPC symbol, you can only find documents to which a CPC or IPC symbol has actually been assigned. It may therefore be worthwhile carrying out certain searches twice: once using keywords and once using CPC and IPC classification symbols.

- Enter classification symbols conforming to the pattern of the classification level you require:
 - class, e.g. **A63**
 - subclass, e.g. **A63B**
 - group (main group), e.g. **A63B49**
 - subgroup, e.g. **A63B49/02**
 - CPC subgroup, e.g. **A63B49/027**
 - CPC 2000 series subgroup, e.g. **A63B2049/0282**

i Classification symbols are not case-sensitive. You can enter **a63b49** or **A63B49** or any other combination of uppercase and lowercase letters.

- Do not enter blanks in classification symbols. If you encounter a symbol printed with a blank after the fourth letter or digit, e.g. **A63B 2049/0235**, omit this blank, as otherwise your search will not retrieve any result.
- Do not use wildcards in classification symbols, e.g. do not enter **A63B49*** if you want to find all child levels of this group. Entering the group alone will automatically retrieve all subgroups.
- In **Classification search**, enter the classification symbol in the search field and click **Search**.

You can then browse the CPC scheme for more information and find other classification symbols that might also be relevant for your search in a specific technical field. For further and more detailed information, refer to the Classification search section.

→ In **Smart search**, enter the classification symbol(s) with or without field identifier.

If you do not enter a field identifier and your search term conforms to the CPC or IPC pattern, the search engine will automatically recognise your search term as a classification symbol and use **cl** as the general field identifier.

→ To restrict your search to either the CPC or the IPC, use **cpc** or **ipc** as the field identifier as appropriate.

→ In **Advanced search**, enter the classification symbol(s) in the **CPC** or **IPC** field as appropriate.

Classification combinations sets (C-sets, combi-sets)

In some cases patent applications are assigned more than one classification symbol. This is called a combination set, C-set or combi-set. These are ordered lists of linked CPC symbols created by patent examiners. Combination sets classify technical features in context or “taken in combination”. The scope of a combination set can vary across technical fields.

If an application has been assigned a classification combination set, this is displayed in the **Bibliographic data** panel under **C-sets**.

Bibliographic data: US2015243407 (A1) — 2015-08-27

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

Oleic and Medium Chain Length Triglyceride Based, Low Viscosity, High Flash Point Dielectric Fluids

Page bookmark [US2015243407 \(A1\) - Oleic and Medium Chain Length Triglyceride Based, Low Viscosity, High Flash Point Dielectric Fluids](#)

Inventor(s): NAIR SREEJIT [IN]; GUPTA KAUSTUBH S [IN]; COGEN JEFFREY M [US]; CHAUDHARY BHARAT I [US]; FLORY ANNY L [US] ±

Applicant(s): DOW GLOBAL TECHNOLOGIES LLC [US] ±

Classification: - international: **H01B3/20**
- cooperative: default A23D9/00; H01B3/20; A23V2250/00; A23V2250/188

C-sets A23V2250/188; A23V2250/1872; A23V2250/1882 → less

Application number: **US** 201314432939 20130917

Priority number(s): WO2012IN00689 20121018 ; WO2013US60055 20130917

Also published as: 📄 WO2014062329 (A1) → KR20150073983 (A) 📄 EP2908655 (A1) 📄 CN104735995 (A) 📄 CA2887006 (A1)

Viewing C-sets in the **Bibliographic data** panel.

Searching for combination sets

To search for patent applications that have a classification combination set containing a single classification symbol (*for example: C08F8/30*).

- Go to **Smart search** and enter the field identifier **cpcc** with the classification symbol.
- Enter **cpcc=C08F8/30**

To search for a list of patent applications with more than one classification in the combination set.

Example:

- Enter cpcc=C08F8/30 cpcc=C08F297/02 separated by a space.

i You can enter up to ten classification symbols in Smart search

Using Boolean operators

You can use either of the Boolean operators AND and OR

AND

→ Enter cpcc=C08F8/30 AND cpcc=C08F297/02

OR

→ Enter cpcc=C08F8/30 OR cpcc=C08F297/02

The default Boolean operator for cpcc searches is AND.

Combination set search with proximity operators

To find applications with classifications that are in the same combination set but not directly next to each other in the hierarchy, you can use proximity operators.

Using prox/distance<3

→ Enter cpcc=C08F8/30 prox/distance<3 cpcc=C08F297/02

More proximity operators can be found under Using proximity operators.

Combination set search with comparison operators

To shorten your query and avoid using Boolean operators you can enter the comparison operators **any** or **all** with the classifications in quotation marks.

Any

→ Enter cpcc any "C08F8/30, C08F8/31"

All


→ Enter cpcc all "C08F8/30, C08F8/31"

You can enter up to ten classification symbols in the search field, each separated by a space.

Finding more information in the search results

Hits with matching classification symbols are highlighted in the Result list. Note that most applications have more than one classification symbol. If there are more than three symbols, this is indicated with a number in brackets, e.g. **(+4)**.

→ To see all classification entries, click on the title link of the relevant application.

Result list 

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 600 results found in the Worldwide database for:
 cl = "A63B49/027" using Smart search
 Only the first 500 results are displayed. 1 ▶

Results are sorted by date of upload in database

1. [Racket, sports product and method for manufacturing same](#)

★ Inventor: LAMMER HERFRIED ROSENKRANZ HARALD (+2)	Applicant: HEAD TECHNOLOGY GMBH	CPC: A41D13/015 A43B1/00 A43B13/187 (+30)	IPC: A63B49/00 A63B49/02 A63B49/08 (+8)	Publication info: CN104083858 (A) 2014-10-08	Priority date: 2007-10-24
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2. [Multi-frame racket](#)

★ Inventor:	Applicant: FERRARI IMP ING COMPANY INC [US]	CPC: A63B2049/0211 A63B49/02 A63B49/027	IPC: A63B49/02 A63B49/08	Publication info: TW203560 (B) 1993-04-11	Priority date: 1990-03-16
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3. [Tennis Racquet Throat "Triple-Asymmetrical-Yokes"](#)

★ Inventor: KUNCZ FERENC [US]	Applicant: KUNCZ FERENC [US]	CPC: A63B49/027 A63B59/0055	IPC: A63B49/02	Publication info: US2014221135 (A1) 2014-08-07	Priority date: 2013-12-05
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4. [Asymmetric paddleball toy with play-direction switching slot](#)

★ Inventor: KUENG RENE ISIDOR [CH]	Applicant: ACTIVE PEOPLE LTD [HK]	CPC: A63B49/027 A63B49/06 A63B49/08 (+5)	IPC: A63B67/20	Publication info: US2014183821 (A1) 2014-07-03 US8899589 (B2) 2014-12-02	Priority date: 2012-12-23
--	--------------------------------------	--	-------------------	--	------------------------------

5. [OPTIMIZED THERMOPLASTIC RACQUET](#)

★ Inventor: SEVERA WILLIAM D [US] DOYLE SCOTT M [US] (+3)	Applicant: WILSON SPORTING GOODS [US]	CPC: A63B2049/0205 A63B2209/00 A63B49/02 (+4)	IPC: A63B49/00 A63B49/02 A63B49/10	Publication info: US2014148278 (A1) 2014-05-29	Priority date: 2012-11-27
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Classification symbols highlighted in the search results

→ The classification symbol you were looking for is highlighted.

Bibliographic data: US2014148278 (A1) — 2014-05-29	
★ In my patents list Previous ◀ 5/500 ▶ Next ⓘ Global Dossier 🗑️ Report data error 🖨️ Print	
OPTIMIZED THERMOPLASTIC RACQUET	
Page bookmark	US2014148278 (A1) - OPTIMIZED THERMOPLASTIC RACQUET
Inventor(s):	SEVERA WILLIAM D [US]; DOYLE SCOTT M [US]; VOGEL DAVID A [US]; KAPHEIM ROBERT T [US]; THURMAN ROBERT T [US] ±
Applicant(s):	WILSON SPORTING GOODS [US] ±
Classification:	- international: A63B49/00; A63B49/02; A63B49/10 cooperative: A63B49/02; A63B49/0294; A63B49/08; A63B49/10; A63B2049/0205; A63B2209/00; A63B49/027
Application number:	US201213686542 20121127
Priority number(s):	US201213686542 20121127

All classifications in the Bibliographic data screen

Search operators for CPC subgroups

You can use search operators to extend your CPC search to all hierarchically dependent entries. By default, the search is restricted to the classification symbol exactly as you enter it.

- **/low** finds all hierarchically dependent CPC symbols, including the 2000 series.
- **/exact** looks only for the classification symbol exactly as you enter it (default).

In Advanced search, the **/low** operator works only in the **CPC** field; it is ignored in the **IPC** field. In Smart search, you must use the **cpc** field identifier to be able to use the **/low** operator.

- To retrieve all related subgroups, add **/low** as a suffix to the symbol, e.g. **A63B49/02/low**.
- To retrieve exactly this subgroup, add no suffix to the symbol, e.g. **A63B49/02** (equivalent to **A63B49/02/exact**).

Search modifiers for IPC symbols

You can use search modifiers to restrict your IPC search to either invention information or additional information.

- **ai**: Invention information is information in patent documents which describes or presents the technical innovations disclosed in the publication and which adds to the prior art.
- **an**: Additional information is non-trivial technical information which does not in itself represent an addition to the state of the art but might constitute useful information for the searcher.

In Advanced search, search modifiers can be used only in the **IPC** field. In Smart search, the search engine will automatically identify queries containing search modifiers (**ai:** or **an:**) as IPC classification searches, which means that entering the **ipc** field identifier is not necessary.

- ➔ Enter the appropriate search modifier as a prefix to the classification symbol, e.g. **an:A63B49/02**.
- ✓ Click on the title of an application to see more details in the **Bibliographic data** screen.

Smart search

Advanced search

Classification search

Quick help

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

Related links

Result list 🔍

Select all (0/25)
 Compact
 Export (CSV | XLS)
 Download covers
 🖨️ Print

Approximately 198 results found in the Worldwide database for: **an:A63B49/02** as the IPC classification 1 ▶

Sort by: Upload date Sort order: Descending

1. METHOD AND DEVICE FOR CONTROLLING ELONGATION OF RACQUET STRINGS

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KITCHEN MICHAEL S [US]	STRINGADVANTAGE TENNIS LLC [US]	A63B49/002 A63B49/007 A63B49/0288 (+3)	A63B49/00	US2013225337 (A1) 2013-08-29 US8888616 (B2) 2014-11-18	2012-02-29

2. GOLF CLUBS AND GOLF CLUB HEADS

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HATTON PHILIP J [US] KAMMERER BRIAN [US] (+7)	NIKE INC [US]	A63B2053/005 A63B2053/0433 A63B2071/0647 (+32)	A63B53/10 A63B53/14 A63B69/36	US2013203518 (A1) 2013-08-08 US8986130 (B2) 2015-03-24	2011-04-28

3. CIRCUIT

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	SEMICONDUCTOR ENERGY LAB	A63B2207/02 A63B2209/14 A63B2243/0025 (+8)	A43B5/00 A63B43/00 A63B43/06 (+20)	JP2012015511 (A) 2012-01-19 JP5463326 (B2) 2014-04-09	2004-02-26

4. Racket for ball games and production process

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MAUSER JOHANNES [AT] RAMBACH KLAUS [DE] (+3)	HEAD TECHNOLOGY GMBH [AT]	A63B49/02 A63B59/00 A63B59/0092	A63B49/02 A63B59/00	TW200534897 (A) 2005-11-01 TWI337883 (B) 2011-03-01	2004-03-03

Search results for applying the **an:** search modifier with IPC classification symbols

- ➔ If you do not find the symbol you were searching for, follow the links to the corresponding documents in the **Also published as** section.

Bibliographic data: US2013225337 (A1) — 2013-08-29

★ In my patents list Previous 1 / 198 ▶ Next ⓘ Global Dossier 📄 Report data error 🖨️ Print

METHOD AND DEVICE FOR CONTROLLING ELONGATION OF RACQUET STRINGS

Page bookmark [US2013225337 \(A1\) - METHOD AND DEVICE FOR CONTROLLING ELONGATION OF RACQUET STRINGS](#)

Inventor(s): KITCHEN MICHAEL S [US] ±

Applicant(s): STRINGADVANTAGE TENNIS LLC [US]; STRINGADVANTAGE TENNIS LLC [US] ±

Classification: - international: **A63B49/00**
 - cooperative: [A63B49/002](#); [A63B49/007](#); [A63B59/0074](#); [A63B49/0288](#); [A63B49/06](#); [A63B59/0088](#)

Application number: US201313780830 20130228

Priority number(s): US201313780830 20130228 ; [US201261604689P 20120229](#)

Also published as: [US8888616 \(B2\)](#) [WO2013130795 \(A1\)](#)

Classification symbol for additional information is not visible in the bibliographic data

- ✓ In the **Bibliographic data** screen, the symbols assigned for additional information are displayed in non-bold characters.

Bibliographic data: US8888616 (B2) — 2014-11-18

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

METHOD AND DEVICE FOR CONTROLLING ELONGATION OF RACQUET STRINGS

Page bookmark [US8888616 \(B2\) - METHOD AND DEVICE FOR CONTROLLING ELONGATION OF RACQUET STRINGS](#)

Inventor(s): KITCHEN MICHAEL S [US] ±

Applicant(s): STRINGADVANTAGE TENNIS LLC [US] ±

Classification: - international: [A63B49/00](#); [A63B51/00](#); [A63B59/00](#); [A63B49/02](#); [A63B49/06](#)
 - cooperative: [A63B49/002](#); [A63B49/007](#); [A63B59/0074](#); [A63B49/0288](#); [A63B49/06](#); [A63B59/0088](#)

Application number: US201313780830 20130228

Priority number(s): US201313780830 20130228 ; [US201261604689P 20120229](#)

Also published as: [US2013225337 \(A1\)](#) [WO2013130795 \(A1\)](#)

IPC classification symbols in the bibliographic data

Presentation of IPC symbols in Espacenet

The IPC symbols are displayed according to the following priorities:

- Classification symbols allocated by offices using the full IPC come before classification symbols allocated by offices classifying in main groups only
- Invention information comes before additional information
- Current IPC symbols come before old IPC symbols (versions 1-7)
- Old IPC symbols (versions 1-7) are displayed in normal font and prefixed with the label **(IPC1-7)**:

The IPC symbols in the result list (and in the documents) are displayed as follows:

- IPC symbols allocated by offices classifying in the full IPC: in italics
- IPC symbols allocated by offices classifying in main groups only: non-italics
- Invention information symbols: bold
- Additional information symbols: non-bold

Bibliographic data: US5586949 (A) — 1996-12-24	
★ In my patents list Previous ◀ 6 / 94 ▶ Next ↗ EP Register Report data error Print	
Hollow club head with sole plate support structure	
Page bookmark	US5586949 (A) - Hollow club head with sole plate support structure
Inventor(s):	AIZAWA YUICHI [JP] ±
Applicant(s):	DAIWA SEIKO INC [JP] ±
Classification:	- international: A63B53/04 ; A63B53/02; A63B59/00 (IPC1-7): A63B53/04 - cooperative: A63B49/06 ; A63B53/04 ; A63B53/0466 ; A63B2053/0433; A63B2053/045; A63B2053/0462 ; A63B53/02 ; A63B59/0092
Application number:	US19950510099 19950801
Priority number(s):	JP19940184399 19940805
Also published as:	JPH0847554 (A)

Old IPC symbols in the bibliographic data

Truncating search terms with wildcards

You can use wildcards to truncate search terms in **Smart search** and **Advanced search**.

The available wildcard symbols are:

- * String of characters of any length
- ? 0 (zero) or 1 character
- # Exactly 1 character

If your search should also include the plural form of a word, different endings or alternative spellings, use the appropriate wildcard.

Examples

- Enter **screw*** to find any word beginning with **screw**, e.g. **screws**, **screwdriver**, **screwing**, **screwed**, etc.
- Enter **screw?** to find the words **screw** or **screws**.
- Enter **Ann#** to find the names **Anne** or **Anna**.

Rules and limitations

- Wildcards are always added at the end of a word or part of a word, e.g. **color?** will search for **color** or **colors**.
- Wildcards cannot be followed by an alphanumeric character (inner truncation), e.g. **colo?r** cannot be used to search for **color** or **colour**.
- There must be at least 2 alphanumeric characters preceding a **?** or **#** symbol, e.g. **co?**, **pa#**
- If 2 alphanumeric characters precede a **?** or **#** symbol, then a maximum of 3 truncation symbols is allowed.
- If 3 or more alphanumeric characters precede a **?** or **#** symbol, then a maximum of 7 truncation symbols is allowed.
- There must be at least 3 alphanumeric characters preceding a ***** symbol.
- Only one ***** symbol can be used per search term.
- Using the ***** symbol can significantly increase the search time.
- Wildcards should not be used for classification symbols. The classification scheme is structured hierarchically anyway, and a search with wildcards may cause the system to slow down or stall.
- Wildcards cannot be used in dates.
- Application numbers cannot be truncated.

- In **Smart search**, wildcards in publication numbers or priority numbers must be used in combination with the appropriate field identifier, e.g. **pn=wo2006*** or **pr=wo2006***.

If you enter **wo2006*** alone, then the search engine interprets this term as text and not as a number, i.e. it will search for **txt=wo2006*** and this will most probably not return any results.

If you do not use wildcards properly in your search terms, you will see the **Invalid query** screen with an error message to that effect.

Using Boolean operators

When searching with **Smart search** or **Advanced search** you can enter the Boolean operators **AND**, **OR** and **NOT** into the search fields.

Entering an operator is necessary if you want to apply a specific operator instead of the default operator in the relevant field, e.g. if you want to use **OR** instead of **AND** in **Smart search** or in one of the name fields in **Advanced search**.

Boolean operators are not case-sensitive in Espacenet, therefore **and**, **AND** or **And** are equivalent.

Narrowing down the search with AND

AND is the default operator. A search with more than one search term will therefore retrieve patent applications that include all the search terms entered.

Example: You want to find applications related to video cameras that were filed by Sony and that were published in the year of 2010.

→ In **Smart search**, enter **pa=sony ti="video camera" pd=2010**.

This query is equivalent to **pa=sony AND ti="video camera" AND pd=2010**.

Not only the operator **AND**, but also the quotation marks and the field identifiers could be omitted. However, note that this short version is not exactly the same. In this example, **Sony video camera 2010** would retrieve the same results as the full query.

→ In **Advanced search**, enter **sony** into the **Applicant(s)** field, **"video camera"** into the keyword(s) field and **2010** into the **Publication date** field.

You do not need to use operators.

Extending the search with OR

By entering the **OR** operator you will retrieve patent applications that include at least one of the terms in your query.

Example: You want to find applications filed by Jura Elektroapparate or De Longhi Appliances.

- In **Smart search**, enter **pa="Jura Elektroapparate" OR pa="De Longhi Appliances"**.
- In **Advanced search**, enter **"Jura Elektroapparate" OR "De Longhi Appliances"** in the **Applicant(s)** field.

Restricting the search with NOT

The **NOT** operator allows you to exclude unwanted search terms from your query. Patent applications that include one search term but not the other will be found.

Example: You want to find applications related to printers except inkjet printers.

- In **Smart search**, enter **ti=printer NOT ti=inkjet**.
- In **Advanced search**, enter **printer NOT inkjet** into the **Keyword(s)** field.

i Be careful with the **NOT** operator when searching with keywords without field identifiers in Smart search. **NOT** could exclude relevant documents where the excluded search term happens to be present anywhere, e.g. in the title or in an address.

Using comparison operators

Smart search allows the use of comparison operators to shorten the search query. Instead of combining several search terms with Boolean operators, you can use one comparison operator and specify the search terms for your query enclosed in quotation marks. The field identifier is required only once, which makes the query easier to type.

all

→ Use **all** if you want to include all words in your search, but you do not know the exact order of the words in the title.

→ Enter **ti all "mouse trap rat"**.

This is equivalent to **ti=mouse ti=trap ti=rat** (connected by AND as the default operator).

✓ The search retrieves applications which have all three words in the title.

Result list 🔍

Select all (0/25) Compact

89 results found in the Worldwide database for:
ti all "mouse rat trap" using Smart search 1 2 3 4 ▶
page 1

Sort by Sort order

<input type="checkbox"/> 1. KOROTIUKS MOUSE-AND-RAT-TRAP					
★ Inventor: KOROTIUK KOSTIANTYN IVANOVYCH [UA] KOROTIUK OLEH KOSTIANTYNOVYCH [UA] (+3)	Applicant: KOROTIUK KOSTIANTYN IVANOVYCH [UA] KOROTIUK OLEH KOSTIANTYNOVYCH [UA] (+3)	CPC:	IPC: A01M23/00	Publication info: UA93626 (C2) 2011-02-25	Priority date: 2010-02-01
<input type="checkbox"/> 2. RAT AND MOUSE TRAP					
★ Inventor: NEWLOVE FRANK H [US] NEWLOVE WILLIAM E [US]	Applicant: NEWLOVE FRANK H [US] NEWLOVE WILLIAM E [US]	CPC:	IPC:	Publication info: CA108162 (A) 1907-10-22	Priority date: 1907-04-15
<input type="checkbox"/> 3. MOUSE AND RAT TRAP					
★ Inventor: MACKEL WILLIAM [US]	Applicant: MACKEL WILLIAM [US]	CPC:	IPC:	Publication info: CA103226 (A) 1907-01-22	Priority date: 1906-09-27

Search results for smart search with **all**


any

→ Use **any** if you want to find any of the words, for example when looking for synonyms.

→ Enter **ti any "mint spearmint peppermint"**

This is equivalent to **ti=mint OR ti=peppermint OR ti=peppermint**.

The search retrieves applications which have at least one of the three words in the title.

Result list 

Select all (0/25)
 Compact
 Export (CSV | XLS)
 Download covers

Approximately 910 results found in the Worldwide database for: **ti any "mint spearmint peppermint"** using Smart search
 Only the first 500 results are displayed.
 ◀ 1 2 3 4 **5** ▶

Results are sorted by date of upload in database

<input type="checkbox"/>	101. HONEY SYRUP WITH PEPPER MINT LIQUEUR (VERSIONS)						
★	<table border="0"> <tr> <td>Inventor: ISHEMGULOV AMIR MINNIAKHMETOVICH [RU] ISHEMGULOVA ZUKHRA RAVILOVNA [RU] (+1)</td> <td>Applicant: G BJUDZHETNOE UCHREZH DENIE BASHKIRSKJ NITS PCHELOVODSTVU I APITERAPII [RU]</td> <td>CPC:</td> <td>IPC: A23L1/08 A23L1/30 A23L2/02</td> <td>Publication info: RU2520331 (C1) 2014-06-20</td> <td>Priority date: 2013-03-05</td> </tr> </table>	Inventor: ISHEMGULOV AMIR MINNIAKHMETOVICH [RU] ISHEMGULOVA ZUKHRA RAVILOVNA [RU] (+1)	Applicant: G BJUDZHETNOE UCHREZH DENIE BASHKIRSKJ NITS PCHELOVODSTVU I APITERAPII [RU]	CPC:	IPC: A23L1/08 A23L1/30 A23L2/02	Publication info: RU2520331 (C1) 2014-06-20	Priority date: 2013-03-05
Inventor: ISHEMGULOV AMIR MINNIAKHMETOVICH [RU] ISHEMGULOVA ZUKHRA RAVILOVNA [RU] (+1)	Applicant: G BJUDZHETNOE UCHREZH DENIE BASHKIRSKJ NITS PCHELOVODSTVU I APITERAPII [RU]	CPC:	IPC: A23L1/08 A23L1/30 A23L2/02	Publication info: RU2520331 (C1) 2014-06-20	Priority date: 2013-03-05		
<input type="checkbox"/>	102. Spearmint Plant Denominated KI-MsEM0042						
★	<table border="0"> <tr> <td>Inventor: NARASIMHAMOORTHY BRINDHA [US] GREAVES JOHN A [US] (+3)</td> <td>Applicant: KEMIN IND INC [US]</td> <td>CPC: A01H5/12</td> <td>IPC: A01H5/12 C07C69/732</td> <td>Publication info: US2014208450 (A1) 2014-07-24</td> <td>Priority date: 2012-02-07</td> </tr> </table>	Inventor: NARASIMHAMOORTHY BRINDHA [US] GREAVES JOHN A [US] (+3)	Applicant: KEMIN IND INC [US]	CPC: A01H5/12	IPC: A01H5/12 C07C69/732	Publication info: US2014208450 (A1) 2014-07-24	Priority date: 2012-02-07
Inventor: NARASIMHAMOORTHY BRINDHA [US] GREAVES JOHN A [US] (+3)	Applicant: KEMIN IND INC [US]	CPC: A01H5/12	IPC: A01H5/12 C07C69/732	Publication info: US2014208450 (A1) 2014-07-24	Priority date: 2012-02-07		
<input type="checkbox"/>	103. Internal heat-lowering mint chip and preparation method thereof						
★	<table border="0"> <tr> <td>Inventor: LU JIANHUI</td> <td>Applicant: WUHE TONGSHIFU FOOD CO LTD</td> <td>CPC: A23L 1/2142 A23L 1/3002 A23V2002/00</td> <td>IPC: A23L1/217 A23L1/30</td> <td>Publication info: CN103932116 (A) 2014-07-23</td> <td>Priority date: 2014-03-21</td> </tr> </table>	Inventor: LU JIANHUI	Applicant: WUHE TONGSHIFU FOOD CO LTD	CPC: A23L 1/2142 A23L 1/3002 A23V2002/00	IPC: A23L1/217 A23L1/30	Publication info: CN103932116 (A) 2014-07-23	Priority date: 2014-03-21
Inventor: LU JIANHUI	Applicant: WUHE TONGSHIFU FOOD CO LTD	CPC: A23L 1/2142 A23L 1/3002 A23V2002/00	IPC: A23L1/217 A23L1/30	Publication info: CN103932116 (A) 2014-07-23	Priority date: 2014-03-21		

Search results for smart search with **any**

Using proximity operators

i The relation symbols $>$ (greater than), $<=$ (less than or equal to) and $>=$ (greater than or equal to) are currently not supported in combination with the proximity operators-. Only $<$ (smaller than) can be applied.

Building nested queries

In **Smart search** and **Advanced search** you can enter multiple search terms into the search fields. If your search terms should not be connected by the default operator **AND** one after the other, you need to build nested queries.

Nesting means that one combination of search terms and operator should take precedence over other combinations or terms in the same search query. Like in mathematics, you must use parentheses to specify the order in which the search terms and operators should be interpreted.

The following examples refer to entering a search query into the **Keyword(s) in title** field in **Advanced search**.

Expression in parentheses

The search engine processes the information within parentheses first, and then processes the information outside parentheses next.

- Enter **(mouse OR rat) AND trap** to retrieve applications containing the word **mouse** or the word **rat** together with the word **trap**.

Nested parentheses

The search engine processes the innermost parenthetical expression first, then the next, and so on, until the entire query has been interpreted.

- Enter **((mouse OR rat) AND trap) OR mousetrap** to find applications
 - either containing the word **mouse** or the word **rat** together with the word **trap**
 - or containing the word **mousetrap**.

The innermost expression can be positioned anywhere within the search query, i.e.

((mouse OR rat) AND trap) OR mousetrap

is equivalent to

mousetrap OR (trap AND (mouse OR rat))

or

(trap AND ((mouse OR rat)) OR mousetrap.

Left has precedence over right

If you do not use parentheses in your search query, then the search engine processes the search terms and operators one by one, reading from left to right.

- Enter **mouse OR rat AND trap OR mousetrap**.

✓ The search engine complements the parentheses and the resulting search query is ***((ti = mouse OR ti = rat) AND ti = trap) OR ti = mousetrap.***

- Enter ***mousetrap OR trap AND mouse OR rat.***

✓ Now, the query becomes ***((ti = mousetrap OR ti = trap) AND ti = mouse) OR ti = rat.***

This retrieves completely different results than ***mousetrap OR (trap AND (mouse OR rat))*** with the appropriate parentheses.

Building complex queries

When building a complex query with different search criteria, both **Advanced search** and **Smart search** provide distinctive qualities. It depends on your search purpose which method will retrieve the best results.

- In **Advanced search**, you can use operators in a specific search field to override the default operator for that field. However, the different criteria (i.e. the search terms from the different fields) are always combined with **AND**.
- **Smart search** allows to use any operator – including **AND** – to connect the different search criteria in any combination that you wish.
- **Advanced search** only requires parentheses within a search field if operators are used for a nested query.
- In **Smart search**, great care is required to place parentheses, operators and quotation marks correctly.

Example A: You want to find all applications submitted by Siemens Aktiengesellschaft and published between January 2010 and May 2010 with a priority application in the United States of America.

→ In **Smart search**, enter **pa=“Siemens Aktiengesellschaft” 201001:201005 pr=US**

Operators and parentheses are not necessary.

→ In **Advanced search**, enter **“Siemens Aktiengesellschaft”** in the **Applicant(s)** field, **201001:201005** in the **Publication date** field and **US** in the **Priority number** field.

Operators and parentheses are not necessary.

Example B: You want to find all applications submitted by Siemens Aktiengesellschaft or Siemens Medical that have been published in 2010 or 2011 with a priority application in the United States of America or in Canada.

→ In **Smart search**, enter **(pa=“Siemens Aktiengesellschaft” OR pa=“Siemens Medical”) AND (pd=2010 OR pd=2011) AND (pr=US OR pr=CA)**.

Both operators and parentheses are necessary.

→ In **Advanced search**, enter **“Siemens Aktiengesellschaft” OR “Siemens Medical”** in the **Applicant(s)** field, **2010 2011** in the **Publication date** field and **US CA** in the **Priority number** field.

The **OR** operator is necessary to override **AND** as the default operator in the **Applicant(s)** field. An operator is not necessary in the **Publication number** and **Priority number** fields, because here **OR** is applied as the default operator. Parentheses are not necessary.

Searching with Classification search

Classification search can be very helpful in your search for a specific invention if you know what a particular classification symbol means. If you do not know the appropriate classification symbol, you can browse the classification system to find suitable symbols for your search in a specific technical field.

When searching in the CPC, you can:

- find classification symbols with the aid of keywords.
- find the description for a classification symbol you already know.
- approach a required subject step by step.

The **Classification search** screen provides the following functions for navigating and searching:

- [1] **Search field** – enter keywords to find matching classifications or enter a classification symbol to view its definition
- [2] **Section navigation** – display the CPC index or go to one of the main sections
- [3] **Toolbar** – change the presentation style for the classification scheme
- [4] **Classifications** – click on the symbol or on the title of a classification to view its subdivisions
- [5] **Selected classifications** – collect classification symbols for your search by selecting the relevant check box in the classification tree

The screenshot shows the 'Cooperative Patent Classification' search interface. At the top, there are navigation links for 'About Espacenet' and 'Other EPO online services'. Below that, there are tabs for 'Search', 'Result list', 'My patents list (0)', 'Query history', 'Settings', and 'Help'. The main content area is divided into several sections:

- Smart search**: Includes 'Advanced search' and 'Classification search' (highlighted).
- Quick help**: A list of help topics related to the Cooperative Patent Classification system.
- Selected classifications**: A section where 'nothing selected' is shown, with buttons for 'Find patents' and 'Copy to search form'.
- Cooperative Patent Classification**: The main search area, featuring a search bar (1), a section index (2) with 'Index' selected, and a toolbar (3) with various toggle buttons. Below the toolbar is a table (4) with columns for 'Symbol', 'Classification and description', and 'S' (Symbol) and 'I' (Info) icons.







Classification search screen with section index

Changing the presentation style for Classification search

The toolbar in **Classification search** provides a set of toggle buttons for selecting which details are displayed and how the classification scheme is presented.

- When a button is clicked (i.e. the function is activated), it appears in an inset style and with white symbols on black background.
- Where buttons work as pairs, you can click on either of the buttons to toggle the function:
 - flip symbols (left or right)
 - toggle tree
 - toggle 2000 series



Button(s)	Function	Effect on presentation
	Flip symbols (left or right)	The classification symbols and check boxes appear in the left column (default) or in the right column.




Button(s)	Function	Effect on presentation
	Toggle tree	The subdivisions of a classification are set out with a number of dots (default) or in a tree-like structure with connecting lines.
	Toggle warnings and notes	The warnings list IPC classifications which are not covered by the selected CPC classification. The notes explain which technical subjects are covered by the selected classification and provide links to related classifications.
	Toggle scheme colours (IPC versus CPC)	Classifications and texts that are part of the CPC and are not contained in the IPC are highlighted in green (in addition to being enclosed in curly brackets).
	Toggle revision dates	The date of the last CPC revision is shown in square brackets following the classification title concerned.
	Toggle references	References with links to related classifications are hidden. They can be displayed individually by clicking the (...) link.
	Toggle 2000 series	The symbols of the CPC 2000 series classification are hidden or shown (default) in white characters on red background.

Viewing classification details

Starting from the subclass level, **Classification search** provides more functions for viewing and downloading additional information.

- [1] Browse to the previous (parent or sibling) classification or to the next (sibling or child) classification by clicking on the pagination links.
- [2] Display or download more information by clicking the relevant detail icon.

Icon	Function	Effect on presentation or download
	Download classification scheme	The schemes of the main sections (A to Y) and subclasses (e.g. A21B) can be downloaded as individual PDF files.
	Toggle definition	The definition is set out with a light pink background. The definition statement describes which technical fields are covered by the selected classification level. Where available, the definition also contains reference information, sample images, a glossary of terms and other additional information.

Icon	Function	Effect on presentation or download
	Toggle notes	The notes are set out with a light blue background. The notes define technical terms, explain which subjects are covered by the selected classification or provide links to related classifications.
	Toggle warnings	The warnings are set out with a light yellow background. The warnings list IPC classifications which are not covered by the selected CPC classification.
	Download definition	The definition of the selected subclass can be downloaded as a PDF file which includes the definitions for all groups and subgroups in that subclass.

Cooperative Patent Classification

Search for Search

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

Navigation icons: Home, Back, Forward, Search, Info, CPC, Print, Refresh, Zoom, etc.

1 « A47G27/00 A47G33/00 »

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
Personal or domestic articles	
<input type="checkbox"/> A47	FURNITURE (arrangements of seats for, or adaptations of seats to, vehicles B60N); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders E06C)
<input type="checkbox"/> A47G	HOUSEHOLD OR TABLE EQUIPMENT (book-ends A47B 5/00 ; knives B26B)

Definitions

Definition statement
This subclass covers:

A47G relates to household or hotel equipment:

- Distinguished from kitchen equipment ([A47J](#)), shop equipment ([A47F](#)) and bathroom equipment ([A47K](#)).
- Not including furniture ([A47B](#), C), cleaning equipment ([A47L](#)) and
- Not including equipment otherwise provided for e.g. heating/cooling equipment [F24/F25](#), building equipment [E04F](#), games [A63F](#), toys [A63H](#), electrical equipment for example lighting devices [F21V](#), electric heating equipment [H05B](#), musical instruments [G10](#) and radio/television/telephone sets [H04](#).

Notes

i This subclass covers equipment for similar use in hotels, dressing rooms, vehicles, or the like, not otherwise provided for

Warnings

w The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A47G25/42](#) covered by [A47G25/40](#), [A47G2025/4092](#)
[A47G25/46](#) covered by [A47G25/44](#), [A47G2025/448](#)
[A47G25/64](#) covered by [A47G25/62](#), [A47G2025/629](#)

Navigating through subclasses and displaying more information

CPC definitions

CPC definitions describe the classification practice in each technical area down to at least the main group level, but in many cases even down to the subgroup level.

CPC definitions are made up of eight components (where available):

- title
- definition statement
- relationship between large subject-matter areas
- references relevant to classification
- informative references
- special rules of classification
- glossary of terms
- synonyms and keywords

CPC differences to the IPC

Curly brackets $\{...\}$ either mark the title of a CPC group which does not exist in the IPC or they set out the CPC-specific text added to the original title of an IPC group. Curly brackets are currently not used in the CPC 2000 series and the Y section.

→ Click on the green **CPC** button to display the CPC-related text highlighted with a green background.

Rackets, bats, or other accessories for ball games		
<input type="checkbox"/> A63B 49/00	Tennis, badminton, or like rackets	D
<input type="checkbox"/> A63B 49/02	•Frames	D
<input type="checkbox"/> A63B 2049/0205	•• {comprising at least two similar parts assembled with the interface plane parallel to the string plane}	
<input type="checkbox"/> A63B 2049/0211	•• {with variable thickness of the head in a direction perpendicular to the string plane}	
<input type="checkbox"/> A63B 2049/0217	•• {with variable thickness of the head in the string plane}	
<input type="checkbox"/> A63B 2049/0223	•• {with defined head dimensions}	
<input type="checkbox"/> A63B 2049/0229	••• {surface area}	
<input type="checkbox"/> A63B 2049/0235	••• {height}	
<input type="checkbox"/> A63B 2049/0241	••• {width}	
<input type="checkbox"/> A63B 2049/0247	•• {with defined overall length}	
<input type="checkbox"/> A63B 2049/0252	•• {with defined weight}	
<input type="checkbox"/> A63B 2049/0258	••• {without strings}	
<input type="checkbox"/> A63B 2049/0264	•••• {head only}	
<input type="checkbox"/> A63B 49/027	•• {Throat section, i.e. sections and elements between head and handle}	D
<input type="checkbox"/> A63B 49/0276	••• {T-shaped connection elements between head and handle}	D
<input type="checkbox"/> A63B 2049/0282	••• {with two legs having mutually different constructions}	
<input type="checkbox"/> A63B 49/0288	•• {with easily dismountable parts, e.g. head, handle or grip}	
<input type="checkbox"/> A63B 49/0294	•• {with head subframes for replacing the stringing}	D
<input type="checkbox"/> A63B 49/04	•• with balancing devices ((A63B 59/0092 , A63B 59/0096 take precedence))	D
<input type="checkbox"/> A63B 49/06	•• with slits ((slits for guiding strings A63B 49/002 ; slits for cooling or ventilation A63B 59/0037))	D
<input type="checkbox"/> A63B 49/08	•• with special construction of the handle	D
<input type="checkbox"/> A63B 49/10	•• made of non-metallic materials, other than wood	D

CPC-related text highlighted in green

CPC 2000 series

Most applications are classified with a more general symbol and with several symbols specifying the technical details and providing additional information.

The CPC 2000 series symbols (formerly called CPC indexing codes) can only be used to classify and search additional information, similarly to the IPC indexing codes.

- Click on the red **2000** button to hide or show (default) the CPC 2000 series classifications.
- Select the main classification first, and then add CPC 2000 symbols for additional information.

Smart search
Advanced search
Classification search

Quick help

- What is the Cooperative Patent Classification system?
- How do I enter classification symbols?
- What do the different buttons mean?
- Can I retrieve a classification using keywords?
- Can I start a new search using the classifications listed?
- Where can I view the description of a particular CPC class?
- What is the meaning of the stars in front of the classifications found?
- What does the text in brackets mean?

Selected classifications

- A63B2209/02 flow
- A63B49/00 flow

Clear

Find patents

Copy to search form

Cooperative Patent Classification

Search for Search

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

« A63B2208/00 A63B2210/00 »

Symbol	Classification and description
<input checked="" type="checkbox"/> A63B 49/00	Tennis, badminton, or like rackets
<input type="checkbox"/> A63B 59/00	Bats, rackets, or the like, for other games (bats with a ball tethered thereto A63B 67/20) { Hand-held throwing or catching aids; Details or accessories of bats, rackets or the like, not limited to one of the groups A63B 49/00 to A63B 57/00, or not otherwise provided for};
<input type="checkbox"/> A63B 2209/00	Characteristics of used materials
<input checked="" type="checkbox"/> A63B 2209/02	<ul style="list-style-type: none">• with reinforcing fibres, e.g. carbon, polyamide fibres
<input checked="" type="checkbox"/> A63B 2209/023	<ul style="list-style-type: none">• Long, oriented fibres, e.g. wound filaments, woven fabrics, mats
<input checked="" type="checkbox"/> A63B 2209/026	<ul style="list-style-type: none">• Ratio fibres-total material
<input type="checkbox"/> A63B 2209/08	<ul style="list-style-type: none">• magnetic
<input type="checkbox"/> A63B 2209/10	<ul style="list-style-type: none">• with adhesive type surfaces, i.e. hook and loop-type fastener
<input type="checkbox"/> A63B 2209/14	<ul style="list-style-type: none">• with form or shape memory materials
<input type="checkbox"/> A63B 69/00	Training appliances or apparatus for special sports (training of parachutists B64D 23/00)
<input type="checkbox"/> A63B 51/00	Stringing tennis rackets { (string guides on frames A63B 49/002 ; clamping strings on frames A63B 49/005)}
<input type="checkbox"/> A63B 71/00	Games or sports accessories not covered in groups A63B 1/00 to A63B 69/00 (starting appliances A63K 3/02)
<input type="checkbox"/> A63B 2220/00	Measuring of physical parameters relating to sporting activity
<input type="checkbox"/> A63B 2225/00	Other characteristics of sports equipment

2000 series classification symbols for additional information selected

Finding classification symbols with keywords

You can search for relevant CPC symbols by starting with a simple keyword query.

i The search for keywords scans the titles and abstracts of the patent documents, not the classification description.

- Enter your keywords in the search field.
- Click on **Search**.

- ✓ The search result will display the groups and subgroups that have been assigned to patent documents in which your keywords are found.

The more stars are displayed, the more frequently the search term occurs in the documents in this group. If a row features several stars, it will be worthwhile continuing to search in this direction.

In the example below, the keyword search for **tennis racket** shows that **A63B49** is likely to be relevant.

Cooperative Patent Classification

Search for: Search

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

Smart search
Advanced search
Classification search

Quick help

→ What is the Cooperative Patent Classification system?
→ How do I enter classification symbols?
→ What do the different buttons mean?
→ Can I retrieve a classification using keywords?
→ Can I start a new search using the classifications listed?
→ Where can I view the description of a particular CPC class?
→ What is the meaning of the stars in front of the classifications found?
→ What does the text in brackets mean?

Symbol	Classification and description
★★★★★ <input type="checkbox"/> A63B 49/00	Tennis, badminton, or like rackets
★★★★★ <input type="checkbox"/> A63B 59/00	Bats, rackets, or the like, for other games (bats with a ball tethered thereto A63B 67/20); Hand-held throwing or catching aids; Details or accessories of bats, rackets or the like, not limited to one of the groups A63B 49/00 to A63B 57/00, or not otherwise provided for;
★★★★★ <input type="checkbox"/> A63B 2209/00	Characteristics of used materials
★★★★★ <input type="checkbox"/> A63B 69/00	Training appliances or apparatus for special sports (training of parachutists B64D 23/00)
★★★★★ <input type="checkbox"/> A63B 51/00	Stringing tennis rackets { (string guides on frames A63B 49/002 ; clamping strings on frames A63B 49/005)}
★★★★★ <input type="checkbox"/> A63B 71/00	Games or sports accessories not covered in groups A63B 1/00 to A63B 69/00 (starting appliances A63K 3/02)
★★★★★ <input type="checkbox"/> A63B 2220/00	Measuring of physical parameters relating to sporting activity
★★★★★ <input type="checkbox"/> A63B 2225/00	Other characteristics of sports equipment

Ranking of results for a keyword search in the CPC

You should always explore the classification system in great detail before using a symbol for your search, as details of your search terms may only be specified further down in the classification tree.

- Click the symbol or the title to explore the subdivisions of that group.
- Repeat to view details of a particular subdivision.
- To make use of a classification symbol in your search later, select the check box next to a symbol.
 - ✓ The symbol is copied into the **Selected classifications** box on the left.

In the example below, your selection will search for documents that have been classified with **Tennis, badminton, or like rackets > Frames made of non-metallic materials, other than wood**.

Cooperative Patent Classification

Smart search
Advanced search
Classification search

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

Quick help

- What is the Cooperative Patent Classification system?
- How do I enter classification symbols?
- What do the different buttons mean?
- Can I retrieve a classification using keywords?
- Can I start a new search using the classifications listed?
- Where can I view the description of a particular CPC class?
- What is the meaning of the stars in front of the classifications found?
- What does the text in brackets mean?

Selected classifications

A63B49/10 flow x

Clear

Find patents

Copy to search form

Symbol Classification and description

A HUMAN NECESSITIES [S]

Health; amusement

A63 SPORTS; GAMES; AMUSEMENTS

A63B APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage **A61H**) [S] [D] [!]

Rackets, bats, or other accessories for ball games

A63B 49/00 Tennis, badminton, or like rackets [D] [!]

A63B 49/02 • Frames [D]

A63B 49/10 • • made of non-metallic materials, other than wood [D]

A63B 2049/103 • • • {string holes produced during moulding process}

A63B 49/106 • • • {with inflatable tubes, e.g. inflatable during fabrication}

Subgroup selected from a keyword search result list

Looking up information for classification symbols

If you are approaching your subject by searching with keywords in **Advanced search** or **Smart search**, you will note that there are some classification symbols that occur most frequently in your search results. You can look up these symbols in the CPC scheme to learn more about the technical field that they cover. This will help you find the right classification symbol(s) for your search.

<input type="checkbox"/> 46. RACKET	★ Inventor: OGAWA NAOITO SAITO SHINJI (+1)	Applicant: YONEX CO LTD	CPC: A63B2049/0217 A63B49/007 A63B49/02 (+1)	IPC: A63B49/02 A63B51/06	Publication info: JP2014171526 (A) 2014-09-22	Priority date: 2013-03-06
<input type="checkbox"/> 47. Control system of racket for tennis game based on mobile terminal	★ Inventor: JIANG GUCHUAN	Applicant: SHANGHAI FEIXUN COMM CO LTD	CPC:	IPC: A63F13/31 A63F13/428	Publication info: CN203874446 (U) 2014-10-15	Priority date: 2013-12-19
<input type="checkbox"/> 48. Environment-friendly table tennis racket base plate	★ Inventor: WANG XUSHENG	Applicant: YANCHENG AST SPORTING GOODS CO LTD	CPC:	IPC: A63B59/04	Publication info: CN104096345 (A) 2014-10-15	Priority date: 2014-08-08
<input type="checkbox"/> 49. Damping tennis racket with automatically adjusted string	★ Inventor: LIU SHUHUA JIAO LIN (+1)	Applicant: UNIV XI AN POLYTECHNIC	CPC:	IPC: A63B49/00 A63B49/02	Publication info: CN203852806 (U) 2014-10-01	Priority date: 2014-02-21
<input type="checkbox"/> 50. TENNIS RACKET	★ Inventor: SCHWENGER RALF [DE]	Applicant: HEAD TECHNOLOGY GMBH [AT]	CPC: A63B2049/0217 A63B2049/0252 A63B49/02 (+1)	IPC: A63B49/02	Publication info: US2014274495 (A1) 2014-09-18 US8968125 (B2) 2015-03-03	Priority date: 2013-03-15

Results for a keyword search with most frequent classification symbol

Searching for a classification symbol

i You can only search for one classification symbol at a time. Operators and wildcards are not allowed. The symbol must be entered in the correct format for the classification level in question.

- Click on **Classification search** in the navigation bar.
- Enter the classification symbol in the search field.
- Click on **Search**.
 - ✓ The classification scheme opens at the queried classification, displaying all sub-levels.
- To view the definition of a classification, click the relevant **D** icon.

Smart search
Advanced search
Classification search

Search for Search

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

Quick help

- What is the Cooperative Patent Classification system?
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- Can I start a new search using the classifications listed?
- Where can I view the description of a particular CPC class?
- What is the meaning of the stars in front of the classifications found?
- What does the text in brackets mean?

Selected classifications
nothing selected
Find patents
Copy to search form

Cooperative Patent Classification

Search for Search

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

« A63B47/00 A63B51/00 »

Symbol	Classification and description	
<input type="checkbox"/> A	HUMAN NECESSITIES	S
Health; amusement		
<input type="checkbox"/> A63	SPORTS; GAMES; AMUSEMENTS	
<input type="checkbox"/> A63B	APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage A61H)	S D I
Rackets, bats, or other accessories for ball games		
<input checked="" type="checkbox"/> A63B 49/00	Tennis, badminton, or like rackets	D I
<input checked="" type="checkbox"/> A63B 49/02	• Frames	D I
<input type="checkbox"/> A63B 2049/0205	•• (comprising at least two similar parts assembled with the interface plane parallel to the string plane)	
<input type="checkbox"/> A63B 2049/0211	•• (with variable thickness of the head in a direction perpendicular to the string plane)	
<input type="checkbox"/> A63B 2049/0217	•• (with variable thickness of the head in the string plane)	
<input type="checkbox"/> A63B 2049/0223	•• (with defined head dimensions)	
<input type="checkbox"/> A63B 2049/0229	••• (surface area)	
<input type="checkbox"/> A63B 2049/0235	••• (height)	
<input type="checkbox"/> A63B 2049/0241	••• (width)	
<input type="checkbox"/> A63B 2049/0247	•• (with defined overall length)	
<input type="checkbox"/> A63B 2049/0252	•• (with defined weight)	
<input type="checkbox"/> A63B 2049/0258	••• (without strings)	
<input type="checkbox"/> A63B 2049/0264	•••• (head only)	
<input type="checkbox"/> A63B 49/027	•• (Throat section, i.e. sections and elements between head and handle)	D
<input type="checkbox"/> A63B 49/0276	••• (T-shaped connection elements between head and handle)	D

Result from searching for a specific classification symbol in the CPC

Viewing details in the classification popup

The classification scheme is also accessible from the **Result list** screen and from the **Bibliographical data** screen.

→ To display the classification scheme for a specific symbol, click on the relevant CPC or IPC symbol.

✓ If **Classification popup** is enabled in **Settings** (default), the classification popup opens.

The functions in the classification popup are similar to those in **Classification search**.

→ Use the toolbar buttons to change the presentation.

→ Use the icons to download a scheme, to display the definition or to display information or warnings.

→ Click on a classification symbol to open the relevant description with more details in the **Classification search** screen.

9. Device for preparation of hot beverage, particularly coffee or tea, has liquid container, which is so designed that liquid present in container is heated by extreme heat source or heated liquid

★ Inventor: DOEPPE MATTHIAS DR [DE] (+1)
 Applicant: WMF WUERTEMBERG METALLWAREN [DE]
 CPC: A47J31/04, **A47J31/30**, A47J31/58
 IPC: A47J31/04, A47J31/44, A47J31/58
 Publication info: DE102010004727 (A1) 2011-07-21, DE102010004727 (B4) 2014-03-13
 Priority date: 2010-01-14

CPC - A47J31/30

scheme images

Symbol Classification and description

A HUMAN NECESSITIES

Personal or domestic articles

A47 FURNITURE (arrangements of seats for, or adaptations of seats to, vehicles **B60N**); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders **E06C**)

A47J KITCHEN EQUIPMENT ((domestic washing or cleaning **A47L**; refuse receptacles **B65F 1/00**)); COFFEE MILLS; SPICE MILLS; APPARATUS FOR MAKING BEVERAGES (disintegrating, e.g. mincing, **B02C**; severing, e.g. cutting, slicing, **B26B**, **B26D**)

Cooking; Apparatus for making beverages

A47J 31/00 Apparatus for making beverages (household machines or implements for straining foodstuffs **A47J 19/00**; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, **A23L 2/00**; coffee or tea pots **A47G 19/14**; tea infusers **A47G 19/16**; dispensing beverages on draught **B67D 1/00**; brewing of beer **C12C**; preparation of wine or other alcoholic beverages **C12G**)

A47J 31/24 • Coffee-making apparatus in which hot water is passed through the filter under pressure, (i.e. in which the coffee grounds are extracted under pressure) (**A47J 31/043** {and **A47J 31/40**} take precedence)

A47J 31/30 •• with hot water under steam pressure

Publication info: DE102010004727 (A1) 2011-06-30
 Priority date: 2010-01-14

Publication info: ITMI20102222 (A1) 2012-06-02
 Priority date: 2010-12-01

Publication info: ITGE20030108 (A1) 2005-06-19
 Priority date: 2003-12-18

Publication info: DE202009016115 (U1) 2010-07-01
 Priority date: 2009-11-26

MAKING BEVERAGES

Publication info: WO2011078841 (A1) 2011-06-30
 Priority date: 2009-12-21

Publication info: WO2010043251 (A1) 2010-04-22
 Priority date: 2008-10-14

Viewing the classification popup for a symbol in the Result list

→ To see sample images from applications classified under this symbol, click the **Images** tab.

→ Browse through the images using the right arrow icon (next) and left arrow icon (previous).

→ To find out more about the patent application from which the image has been taken, copy the publication number indicated below the figure and enter it in **Smart search** without the kind code.

9. Device for preparation of hot beverage, particularly coffee or tea, has liquid container, which is so designed that liquid present in container is heated by extreme heat source or heated liquid

★ Inventor: DOEPPE MATTHIAS DR [DE] FREY ANNIKA [DE] (+1)	Applicant: WMF WUERTEMBERG METALLWAREN [DE]	CPC: A47J31/04 A47J31/30 A47J31/58	IPC: A47J31/04 A47J31/44 A47J31/58	Publication info: DE102010004727 (A1) 2011-07-21 DE102010004727 (B4) 2014-03-13	Priority date: 2010-01-14
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CPC - A47J31/30

scheme images

4 15/17

EP1781150.A1

Publication info: DE102009055385 (A1) 2011-06-30	Priority date: 2009-12-29
upper part using bayonet fixing unit, member-safety valve	
Publication info: DE102009034323 (A1) 2011-01-27	Priority date: 2009-07-23
Publication info: JPH06500012 (U) 1994-11-02	Priority date: 1990-08-22
Publication info: DE 202009016115 (U1) 2010-07-01	Priority date: 2009-11-26

Viewing sample images from applications classified under the selected symbol

Exploring the CPC step by step

One of the greatest challenges in searching for patent information is determining the relevant classification symbol. Often, the right classification category for an object is not immediately obvious.

The following example illustrates how you can drill down your classification search from a broad keyword search to the specific technical details you are interested in.

- Click on **Classification search** in the navigation bar.
- Enter your keywords and click on **Search**.

In this example, the four stars clearly indicate that the group **A47J31/00** is the best result. However, in most cases multiple classification symbols are assigned to an application. The precedence of classification symbols from other main sections suggests that specific technical features should also be considered.

Smart search
Advanced search
Classification search

Quick help

- [What is the Cooperative Patent Classification system?](#)
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- [What do the different buttons mean?](#)
- [Can I retrieve a classification using keywords?](#)
- [Can I start a new search using the classifications listed?](#)
- [Where can I view the description of a particular CPC class?](#)
- [What is the meaning of the stars in front of the classifications found?](#)
- [What does the text in brackets mean?](#)

Selected classifications

nothing selected

Find patents

Copy to search form

Cooperative Patent Classification

Search for Search

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

« A63B47/00 A63B51/00 »

Symbol	Classification and description
★★★★ <input checked="" type="checkbox"/> A47J 31/00	Apparatus for making beverages (household machines or implements for straining foodstuffs A47J 19/00 ; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00 ; coffee or tea pots A47G 19/14 ; tea infusers A47G 19/16 ; dispensing beverages on draught B67D 1/00 ; brewing of beer C12C ; preparation of wine or other alcoholic beverages C12G)
★★★★ <input type="checkbox"/> B65D 85/00	Containers, packaging elements or packages specially adapted for particular articles or materials (B65D 71/00 , B65D 83/00 take precedence; hand implements, travelling equipment A45C ; cosmetic or toilet equipment A45D ; {for surgical instruments or appliances A61B 19/026 }; containers specially adapted for medical or pharmaceutical purposes A61J 1/00 ; paint cans B44D 3/12 ; oil cans F16N 3/04 ; containers for carrying smallarms F41C 33/06 ; packaging of ammunition or explosive charges F42B 39/00 ; containers for record carriers, specially adapted for co-operation with the recording or reproducing apparatus G11B 23/00)
★★★★ <input type="checkbox"/> G01G 19/00	Weighing apparatus or methods adapted for special purposes not provided for in the preceding groups ((electric measuring arrangements involving comparison with a reference value G01R 17/00))
★★★★ <input type="checkbox"/> B01F 3/00	Mixing, e.g. dispersing, emulsifying, according to the phases to be mixed ((C08J 3/02 takes precedence))
★★★★ <input type="checkbox"/> B01F 5/00	Flow mixers (sprayers, atomisers B05B); Mixers for falling materials, e.g. solid particles (B01F 13/04 takes precedence; centrifugal mixers B04)
★★★★ <input type="checkbox"/> B01F 2215/00	Auxiliary or complementary information in relation with mixing
★★★★ <input type="checkbox"/> H05B 2203/00	Aspects relating to Ohmic resistive heating covered by group H05B 3/00
★★★★ <input type="checkbox"/> H05B 3/00	Ohmic-resistance heating
★★★★ <input type="checkbox"/> Y10S 261/00	Gas and liquid contact apparatus
★★★★ <input type="checkbox"/> G01J 5/00	Radiation pyrometry (photometry in general G01J 1/00 ; spectrometry in general G01J 3/00 {measuring temperature in general, i.e. with a contacting sensor G01K ; calorimetry of radiation beams G01K 17/00 ; direction finders for radiant sources G01S ; intrusion detection by radiation G08B })

Results for keyword search in Classification search

- Click on the classification that best matches your intention.
- Look for the appropriate subgroup at the highest level (i.e. the one marked with one dot) and click on that symbol.
- ✓ The scheme is reduced to the selected subgroup.

Cooking; Apparatus for making beverages	
<input type="checkbox"/> A47J 31/00	Apparatus for making beverages (household machines or implements for straining foodstuffs A47J 19/00 ; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00 ; coffee or tea pots A47G 19/14 ; tea infusers A47G 19/16 ; dispensing beverages on draught B67D 1/00 ; brewing of beer C12C ; preparation of wine or other alcoholic beverages C12G)
<input type="checkbox"/> A47J 31/24	Coffee-making apparatus in which hot water is passed through the filter under pressure, { i.e. in which the coffee grounds are extracted under pressure} (A47J 31/043 {and A47J 31/40 } take precedence)
<input type="checkbox"/> A47J 31/30	•• with hot water under steam pressure
<input type="checkbox"/> A47J 31/303	••• {classical type of espresso apparatus, e.g. to put on a stove, i.e. in which the water is heated in a lower, sealed boiling vessel, raised by the steam pressure through a rising pipe and an extraction chamber and subsequently is collected in a beverage container on top of the water boiling vessel}
<input type="checkbox"/> A47J 31/306	•••• {with integral electrical heating means}
<input type="checkbox"/> A47J 31/32	•• with hot water under air pressure
<input type="checkbox"/> A47J 31/34	•• with hot water under liquid pressure
<input type="checkbox"/> A47J 31/36	••• with mechanical pressure-producing means
<input type="checkbox"/> A47J 31/3604	•••• {with a mechanism arranged to move the brewing chamber between loading, infusing and ejecting stations}
<input type="checkbox"/> A47J 31/3609	••••• {Loose coffee being employed (with a filtering tape A47J 31/3652)}
<input type="checkbox"/> A47J 31/3614	•••••• {Means to perform transfer from a loading position to an infusing position}
<input type="checkbox"/> A47J 31/3619	••••••• {Means to remove coffee after brewing}
<input type="checkbox"/> A47J 31/3623	•••••••• {Cartridges being employed (with tape of cartridges A47J 31/3652)}
<input type="checkbox"/> A47J 31/3628	••••••••• {Perforating means therefor}
<input type="checkbox"/> A47J 31/3633	•••••••••• {Means to perform transfer from a loading position to an infusing position}
<input type="checkbox"/> A47J 31/3638	••••••••••• {Means to eject the cartridge after brewing}
<input type="checkbox"/> A47J 31/3642	•••••••••••• {Cartridge magazines therefor}
<input type="checkbox"/> A47J 31/3647	••••••••••••• {a tape being employed}

Sub-elements of the selected subgroup

- Look for technical details that further differentiate the subject-matter and click on the appropriate symbol (marked with two dots).
- Where available and appropriate, reduce the scheme down to a sub-level marked with five (i.e. great-great-grandchildren) or even more dots.

Cooking; Apparatus for making beverages	
<input type="checkbox"/> A47J 31/00	Apparatus for making beverages (household machines or implements for straining foodstuffs A47J 19/00 ; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00 ; coffee or tea pots A47G 19/14 ; tea infusers A47G 19/16 ; dispensing beverages on draught B67D 1/00 ; brewing of beer C12C ; preparation of wine or other alcoholic beverages C12G)
<input type="checkbox"/> A47J 31/24	Coffee-making apparatus in which hot water is passed through the filter under pressure, { i.e. in which the coffee grounds are extracted under pressure} (A47J 31/043 {and A47J 31/40 } take precedence)
<input type="checkbox"/> A47J 31/34	•• with hot water under liquid pressure
<input type="checkbox"/> A47J 31/36	••• with mechanical pressure-producing means
<input type="checkbox"/> A47J 31/3666	••••• {whereby the loading of the brewing chamber with the brewing material is performed by the user (A47J 31/3604 takes precedence)}
<input type="checkbox"/> A47J 31/3671	•••••• {Loose coffee being employed}
<input type="checkbox"/> A47J 31/3676	••••••• {Cartridges being employed}
<input type="checkbox"/> A47J 31/368	•••••••• {Permeable cartridges being employed}
<input type="checkbox"/> A47J 31/3685	••••••••• {Brewing heads therefor}
<input type="checkbox"/> A47J 31/369	••••~•••••••• {Impermeable cartridges being employed}
<input type="checkbox"/> A47J 31/3695	••••~•••••••••• {Cartridge perforating means for creating the hot water inlet (cartridge perforating means of the filter holder for creating the beverage outlet A47J 31/0673)}

Reducing the scheme to CPC-specific subgroups

At this point, you can decide on the level of detail at which you would like to proceed with your search. If you restrict your search to a classification symbol that is only covered by the CPC, you might narrow your search too much.

- Click the **CPC** button to highlight the CPC-specific subdivisions.

In this example, the subgroups **A47J31/34** and **A47J31/36** cover both the IPC and the CPC.

- Select the classification symbol(s) you are interested in.
- ✓ The children classification symbols are also selected, which is indicated by the **/low** operator in the **Selected classifications** box.

Cooperative Patent Classification

Search for Search

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

« A47J29/00 A47J33/00 »

Symbol	Classification and description
<input type="checkbox"/> A	HUMAN NECESSITIES
Personal or domestic articles	
<input type="checkbox"/> A47	FURNITURE (arrangements of seats for, or adaptations of seats to, vehicles B60N); DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL (ladders E06C)
<input type="checkbox"/> A47J	KITCHEN EQUIPMENT [(domestic washing or cleaning A47L ; refuse receptacles B65F 1/00); COFFEE MILLS; SPICE MILLS; APPARATUS FOR MAKING BEVERAGES (disintegrating, e.g. mincing, B02C ; severing, e.g. cutting, slicing, B26B , B26D)
Cooking; Apparatus for making beverages	
<input type="checkbox"/> A47J 31/00	Apparatus for making beverages (household machines or implements for straining foodstuffs A47J 19/00 ; preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, A23L 2/00 ; coffee or tea pots A47G 19/14 ; tea infusers A47G 19/16 ; dispensing beverages on draught B67D 1/00 ; brewing of beer C12C ; preparation of wine or other alcoholic beverages C12G)
<input type="checkbox"/> A47J 31/24	• Coffee-making apparatus in which hot water is passed through the filter under pressure, [i.e. in which the coffee grounds are extracted under pressure] (A47J 31/04 [and A47J 31/40], take precedence)
<input checked="" type="checkbox"/> A47J 31/34	•• with hot water under liquid pressure
<input checked="" type="checkbox"/> A47J 31/36	••• with mechanical pressure-producing means
<input checked="" type="checkbox"/> A47J 31/3666	•••• [whereby the loading of the brewing chamber with the brewing material is performed by the user (A47J 31/3604 takes precedence)]
<input checked="" type="checkbox"/> A47J 31/3671	••••• [Loose coffee being employed]

CPC highlighting activated and classification subgroup selected

Using selected classification symbols for searching

If your research in the CPC results in a set of classification symbols, you can immediately use these for searching for matching patent applications.

- Click on **Find patents** to search with the selected symbols.
- Click on **Copy to search form** to export the selected symbols to the **Advanced search** mask.
- Add other search criteria in the appropriate search field to narrow down your search.

i For the best search results, we recommend combining queries in the **CPC/IPC** fields with keyword fields. It is useful to check the classifications listed in your results again when you have finished searching. Sometimes classes appear which you did not take into account before.

→ Check the number of results and page through the result list, paying particular attention to the titles of the documents found and to the classification symbols specified.

→ Check to see whether one or other of the symbols or its parts predominates.

The example below shows that many of the inventions describe a specific component or function of an espresso machine, not the machine itself as a complete object.

Result list

Select all (0/25) Compact

Approximately 9 943 results found in the Worldwide database for:
A47J31/34 as the Cooperative Patent Classification
 Only the first 300 results are displayed.

Results are sorted by date of upload in database

<input type="checkbox"/>	Title	Inventor	Applicant	CPC	IPC	Publication info	Priority date
<input type="checkbox"/>	26. AN AUTOMATIC POD CONVEYOR AND BREWER ASSEMBLY FOR FRESH HOT BEVERAGE	CHATTERJEE ASHIM MANI GEORGE KANDAPPALI (+1)	TATA TEA LTD [IN]	A47J31/3642	A47J31/06 B65D37/00	BRPI0822245 (A2) 2015-06-23	2008-04-28
<input type="checkbox"/>	27. SYSTEME DE PRODUCTION DE BOISSONS PAR INFUSION	BLANC JEAN-PIERRE GOERING ALAIN	CIE MEDITERRANEENNE DES CAFES [FR]	A47J31/3633 A47J31/3638 A47J31/407	A47J31/36 A47J31/40	BRPI0811945 (A2) 2015-06-23	2007-05-21
<input type="checkbox"/>	28. A CAPSULE HOLDER FOR A BEVERAGE PREPARATION MACHINE	DOGAN NIHAN [CH] DOLEAC FRÉDÉRIC [FR]	NESTEC SA [CH]	A47J31/3628 A47J31/407	A47J31/00 A47J31/36	CL2014002827 (A1) 2014-12-19	2012-04-24
<input type="checkbox"/>	29. BREWING ASSEMBLY FOR A MACHINE FOR THE PREPARATION OF BEVERAGES USING CAPSULES	DE MANGO CARLO [IT]	LAVAZZA LUIGI SPA [IT]	A47J31/3638 A47J31/407	A47J31/40	US2015173560 (A1) 2015-06-25	2012-07-30
<input type="checkbox"/>	30. DISPENSING ASSEMBLY FOR MACHINES FOR THE PREPARATION OF BEVERAGES USING CAPSULES	ROTTA DENIS [IT] TORNINCASA STEFANO [IT] (+3)	LAVAZZA LUIGI SPA [IT]	A47J31/3633 A47J31/3638	A47J31/36	US2015173559 (A1) 2015-06-25	2012-07-26
<input type="checkbox"/>	31. USED CAPSULE OR POD RECEPTACLE FOR LIQUID FOOD OR BEVERAGE MACHINES	CAHEN ANTOINE KAESER STEFAN (+4)	NESTEC SA [CH]	A47J31/3619 A47J31/3638 A47J31/44	A47J31/44	BRPI0821188 (A2) 2015-06-16	2007-12-12
<input type="checkbox"/>	32. Device for preparing a beverage with removable injection member	DENISART JEAN-LUC BONACCI ENZO (+2)	NESTEC SA [CH]	A47J31/3695	A47J31/36	BRPI0821016 (A2) 2015-06-16	2007-12-18

Results of a classification search in CPC and IPC fields

Clearing selected classification symbols

By default, multiple classification symbols are connected with the **AND** operator. If your search does not return any results, you have probably used classification symbols that are mutually exclusive.

- Click on the **x** icon to remove an individual symbol from the selection.
- Alternatively, clear the check box of the relevant classification symbol in the classification tree.
- Click on **Clear** to remove all symbols from the selection.

found?
→ What does the text in brackets mean?

Selected classifications

- A47J31/30 /low x
- A47J31/3609 /low x
- A47J31/3671 /low x
- Clear
- Find patents
- Copy to search form

Cooking; Apparatus for making beverages

- A47J 31/00** Apparatus for making beverages (household machines or implements for straining foodstuffs [A47J 19/00](#); preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, [A23L 2/00](#); coffee or tea pots [A47G 19/14](#); tea infusers [A47G 19/16](#); dispensing beverages on draught [B67D 1/00](#); brewing of beer [C12C](#); preparation of wine or other alcoholic beverages [C12G](#))
- A47J 31/24** • Coffee-making apparatus in which hot water is passed through the filter under pressure, (i.e. in which the coffee grounds are extracted under pressure) ([A47J 31/043](#) (and [A47J 31/40](#)) take precedence)
- A47J 31/30** •• with hot water under steam pressure
- A47J 31/303** ••• (classical type of espresso apparatus, e.g. to put on a stove, i.e. in which the water is heated in a lower, sealed boiling vessel, raised by the steam pressure through a rising pipe and an extraction chamber and subsequently is collected in a beverage container on top of the water boiling vessel)
- A47J 31/306** •••• (with integral electrical heating means)
- A47J 31/32** •• with hot water under air pressure
- A47J 31/34** •• with hot water under liquid pressure
- A47J 31/36** ••• with mechanical pressure-producing means
- A47J 31/3604** •••• (with a mechanism arranged to move the brewing chamber between loading, infusing and ejecting stations)
- A47J 31/3609** ••••• (Loose coffee being employed (with a filtering tape [A47J 31/3652](#)))
- A47J 31/3614** •••••• (Means to perform transfer from a loading position to an infusing position)
- A47J 31/3619** ••••••• (Means to remove coffee after brewing)

Clearing classification symbols from the selection

- ✓ The symbol including its child classifications is cleared from the selection.

found?
→ What does the text in brackets mean?

Selected classifications

- A47J31/30 /low x
- A47J31/3671 /low x
- Clear
- Find patents
- Copy to search form

Cooking; Apparatus for making beverages

- A47J 31/00** Apparatus for making beverages (household machines or implements for straining foodstuffs [A47J 19/00](#); preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, [A23L 2/00](#); coffee or tea pots [A47G 19/14](#); tea infusers [A47G 19/16](#); dispensing beverages on draught [B67D 1/00](#); brewing of beer [C12C](#); preparation of wine or other alcoholic beverages [C12G](#))
- A47J 31/24** • Coffee-making apparatus in which hot water is passed through the filter under pressure, (i.e. in which the coffee grounds are extracted under pressure) ([A47J 31/043](#) (and [A47J 31/40](#)) take precedence)
- A47J 31/30** •• with hot water under steam pressure
- A47J 31/303** ••• (classical type of espresso apparatus, e.g. to put on a stove, i.e. in which the water is heated in a lower, sealed boiling vessel, raised by the steam pressure through a rising pipe and an extraction chamber and subsequently is collected in a beverage container on top of the water boiling vessel)
- A47J 31/306** •••• (with integral electrical heating means)
- A47J 31/32** •• with hot water under air pressure
- A47J 31/34** •• with hot water under liquid pressure
- A47J 31/36** ••• with mechanical pressure-producing means
- A47J 31/3604** •••• (with a mechanism arranged to move the brewing chamber between loading, infusing and ejecting stations)
- A47J 31/3609** ••••• (Loose coffee being employed (with a filtering tape [A47J 31/3652](#)))
- A47J 31/3614** •••••• (Means to perform transfer from a loading position to an infusing position)
- A47J 31/3619** ••••••• (Means to remove coffee after brewing)

Classification symbol including child levels is cleared from the selection

Applying CPC search operators

The **/low** operator is always applied by default. This means that your search will include all entries hierarchically below the selected classification level and that the check boxes for all the child classifications are selected.

If you apply the **/exact** operator, however, the search will only look for the classification symbol exactly as you enter it and will not retrieve results for child classifications.

→ To change the operator for a selected symbol, click on **/low**.

→ In the balloon that appears, select **/exact** followed by the classification symbol.

found?
→ What does the text in brackets mean?

low A47J31/3609
/exact A47J31/3609
A47J31/3609 /low
A47J31/3671 /low
Clear
Find patents
Copy to search form

Cooking; Apparatus for making beverages

- A47J 31/00 Apparatus for making beverages (household machines or implements for straining foodstuffs [A47J 19/00](#); preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, [A23L 2/00](#); coffee or tea pots [A47G 19/14](#); tea infusers [A47G 19/16](#); dispensing beverages on draught [B67D 1/00](#); brewing of beer [C12C](#); preparation of wine or other alcoholic beverages [C12G](#))
- A47J 31/24 • Coffee-making apparatus in which hot water is passed through the filter under pressure, (i.e. in which the coffee grounds are extracted under pressure) ([A47J 31/043](#) (and [A47J 31/40](#)) take precedence)
- A47J 31/30 • with hot water under steam pressure
- A47J 31/303 ••• (classical type of espresso apparatus, e.g. to put on a stove, i.e. in which the water is heated in a lower, sealed boiling vessel, raised by the steam pressure through a rising pipe and an extraction chamber and subsequently is collected in a beverage container on top of the water boiling vessel)
- A47J 31/306 •••• (with integral electrical heating means)
- A47J 31/32 • with hot water under air pressure
- A47J 31/34 • with hot water under liquid pressure
- A47J 31/36 ••• with mechanical pressure-producing means
- A47J 31/3604 •••• (with a mechanism arranged to move the brewing chamber between loading, infusing and ejecting stations)
- A47J 31/3609 ••••• (Loose coffee being employed (with a filtering tape [A47J 31/3652](#)))
- A47J 31/3614 •••••• (Means to perform transfer from a loading position to an infusing position)
- A47J 31/3619 ••••••• (Means to remove coffee after brewing)
- A47J 31/3623 •••••••• (Cartridges being employed (with tape of cartridges [A47J 31/3652](#)))

Changing the CPC search operator from low to exact

- ✓ The operator changes to **/exact** and the check boxes of the child classifications are cleared.

found?
→ What does the text in brackets mean?

Selected classifications

A47J31/30 /low
A47J31/3609 /exact
A47J31/3671 /low
Clear
Find patents
Copy to search form

Cooking; Apparatus for making beverages

- A47J 31/00 Apparatus for making beverages (household machines or implements for straining foodstuffs [A47J 19/00](#); preparation of non-alcoholic beverages, e.g. by adding ingredients to fruit or vegetable juices, [A23L 2/00](#); coffee or tea pots [A47G 19/14](#); tea infusers [A47G 19/16](#); dispensing beverages on draught [B67D 1/00](#); brewing of beer [C12C](#); preparation of wine or other alcoholic beverages [C12G](#))
- A47J 31/24 • Coffee-making apparatus in which hot water is passed through the filter under pressure, (i.e. in which the coffee grounds are extracted under pressure) ([A47J 31/043](#) (and [A47J 31/40](#)) take precedence)
- A47J 31/30 • with hot water under steam pressure
- A47J 31/303 ••• (classical type of espresso apparatus, e.g. to put on a stove, i.e. in which the water is heated in a lower, sealed boiling vessel, raised by the steam pressure through a rising pipe and an extraction chamber and subsequently is collected in a beverage container on top of the water boiling vessel)
- A47J 31/306 •••• (with integral electrical heating means)
- A47J 31/32 • with hot water under air pressure
- A47J 31/34 • with hot water under liquid pressure
- A47J 31/36 ••• with mechanical pressure-producing means
- A47J 31/3604 •••• (with a mechanism arranged to move the brewing chamber between loading, infusing and ejecting stations)
- A47J 31/3609 ••••• (Loose coffee being employed (with a filtering tape [A47J 31/3652](#)))
- A47J 31/3614 •••••• (Means to perform transfer from a loading position to an infusing position)
- A47J 31/3619 ••••••• (Means to remove coffee after brewing)
- A47J 31/3623 ••~•••••••• (Cartridges being employed (with tape of cartridges [A47J 31/3652](#)))

The sub-levels are excluded from the selection if the exact operator is applied for a classification symbol

Viewing the search results

If your search is successful, a list with the titles that have been found is displayed. Your search terms are highlighted in yellow where they appear in the list.

The **Result list** tab is activated in the main navigation once you run the first search. If cookies are enabled and not deleted when the browser is closed, clicking the **Result list** tab will display the results of your most recent search when you last visited the Espacenet website.

- [1] The **toolbar** provides functions for selecting, exporting, downloading and printing search results. You can toggle the list mode between extended view (default, shows 25 items) and compact view (shows 50 items).
- [2] The grey box above the list displays a summary of your search: the number of documents found, the database searched and the query with your search terms.
- [3] The **page navigation** shows more page numbers dynamically while you browse from one page to the next.
- [4] The **sort options** are available only if your search returns fewer than 500 results. Otherwise, the results are sorted by the date of upload in the Espacenet database.
- [5] The **title** is displayed in English or in the original language if no English translation is available. If you click on the title, you will see all details of the relevant patent document.
- [6] The **bibliographic data summary** shows the most important application data. In extended view, these are title, inventor(s), applicant(s), CPC and IPC symbols, publication info (publication number and publication date) and priority date. In compact view, only the title and the publication info are displayed.
- [7] The **star icon** allows you to add a document to **My patents list**. If the star is coloured red, the document is already saved to **My patents list**.
- [8] Clicking on a CPC or IPC classification symbol will display the description of the relevant classification level within the CPC scheme in the **classification popup**.
- [9] Numbers in brackets – e.g. **(+2)** – under the inventor/applicant names or classification symbols indicate the number of additional names or symbols that you can see in the **Bibliographic data** screen for the document.
- [10] The grey box below the list features a **Load more results for export** button. Clicking on this will add the next 25 (extended view) or 50 (compact view) titles to the list.

Search Result list My patents list (2) Query history Settings Help

Refine search → Results page 1

Smart search
Advanced search
Classification search

Quick help -

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

Related links +

Result list

Select all (0/25) Compact Export (CSV | XLS) Download covers Print

Approximately 259 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = it using Smart search

Sort by Upload date Sort order Descending Sort

1. DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ERBA ROBERTO [IT]	GRUPPO CIMBALI SPA [IT]	A47J31/24 A47J31/446 A47J31/4492 (+2)	A47J31/24 A47J31/44 G01J5/08 (+1)	US2015114234 (A1) 2015-04-30	2013-10-28

2. Super-automatic coffee maker for preparation of espresso coffee

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
CEOTTO BEPPINO ROSSETTO GIOVANNI	CMA MACCHINE PER CAFFE S R L	A47J31/42	A47J31/42	AU2013311631 (A1) 2015-03-05	2012-09-07

3. Machine for preparing beverages

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BALESTIER DIEGO [IT] VAN EEDEN FRANCISCUS BENEDICTUS MARIA [NL] (+1)	ILLYCAFFE SPA [IT]	A47J31/4403 A47J31/4457 A47J31/446	A47J31/00 A47J31/44	TW201442678 (A) 2014-11-16	2013-03-07

4. Espresso coffee filter and coffee machine comprising it

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MORGANDI ARTURO	TENACTA GROUP SPA	A47J31/0663 A47J31/4496	A47J31/06	CN104172926 (A) 2014-12-03	2013-05-22

5. Dispenser unit for an espresso coffee machine of capsule type, for professional use

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
FREGNAN ANDREA [IT]	ELEKTRA S R L [IT]	A47J31/3638	A47J31/36	EP2862486 (A1) 2015-04-22	2013-10-16

24. HEAT CHAMBER FOR MACHINES FOR INFUSIONS AND THE LIKE, PARTICULARLY FOR HEATING WATER FOR PREPARING ESPRESSO COFFEE

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
AARDENBURG J M CORNELIUS [NL]	SWISS CAFFE ASIA LTD [CN]	A47J31/4403 A47J31/542	A47J31/44 A47J31/54	KR20110082488 (A) 2011-07-19	2010-01-11

25. Method for extracting espresso coffee particularly from a cartridge with crema generating septum, and beverage obtainable from the method


Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
SUGGI LIVERANI FURIO [IT] MASTROPASQUA LUCA [IT] (+2)	ILLYCAFFE SPA [IT]	A47J31/002 A47J31/369 A47J31/4496	A47J31/00 A47J31/40	TW200810720 (A) 2008-03-01	2006-05-12

Approximately 259 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = it using Smart search

Load more results for export

Data and tools in the Result list

The result list is limited to 500 titles per search. Even if the number of matching results is higher, only the 500 most recent documents uploaded to the database can be displayed. This means that you have to enter additional search criteria to limit your search if you are interested in documents published earlier. The approximate number of search results is indicated in the result list.

Result list 

Select all (0/25) Compact

Approximately **1,926** results found in the Worldwide database for:
txt = espresso using Smart search
 Only the first 500 results are displayed. 1 ▶


Results are sorted by date of upload in database

1. **Electrically operated drink maker, in particular electrically operated coffee machine, with steam lance for frothing up milk**

★ Inventor: SCHLEE ALEXANDER [DE]	Applicant: WMF AG [DE]	CPC: A47J31/4485 A47J31/4489 B01F2003/04936 (+7)	IPC: A47J31/44 B01F3/04 B01F5/04	Publication info: US2015150408 (A1) 2015-06-04	Priority date: 2013-11-28
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Example of a search with more than 500 results

If more than 100,000 results are found, the search engine no longer calculates the number of results. The result list only indicates that there are more than 100,000 results.

Result list 

Select all (0/25) Compact

More than **100,000** results found in the Worldwide database for:
txt = machine using Smart search
 Only the first 500 results are displayed. 1 ▶

Results are sorted by date of upload in database

1. **METHOD FOR PRESSING CHEESE MOULDS AND CHEESE MOULD PRESSING MACHINE**

★ Inventor: PUIG JOAN CALVET [ES]	Applicant: TECNICAL TECNOLOGIA APLIC S L L [ES]	CPC: A01J25/12 A01J25/15	IPC: A01J25/12 A01J25/15	Publication info: PT2644026 (E) 2015-05-18	Priority date: 2010-11-22
--	--	---	---------------------------------------	---	-------------------------------------

Example of a search with more than 100,000 results

Modifying the search

You can modify your query if the search does not return the results you were expecting or if there are too many results or no results at all.

- To narrow the search, add more search criteria, e.g. limit the search to a specific period of time by entering a publication date.
- To broaden the search, change the search criteria, e.g. by adding more keywords connected with the **OR** operator.
- To exclude unwanted results, use the **NOT** operator or enter different search criteria.

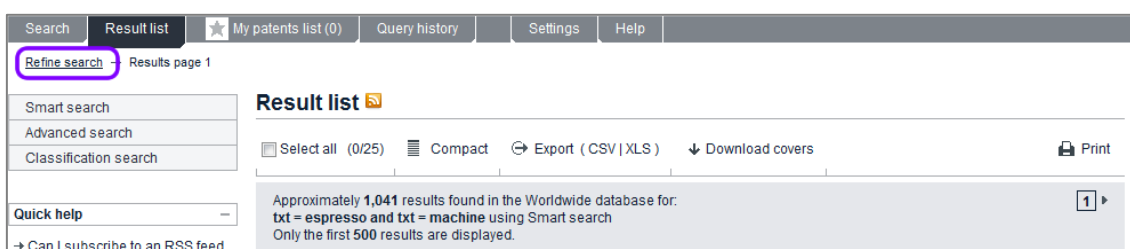
Refine search

If you want to work with the query that you entered most recently, you can go back to the **Smart search** or **Advanced search** screen and modify your search terms.

- Click the **Refine search** link in the breadcrumb navigation.

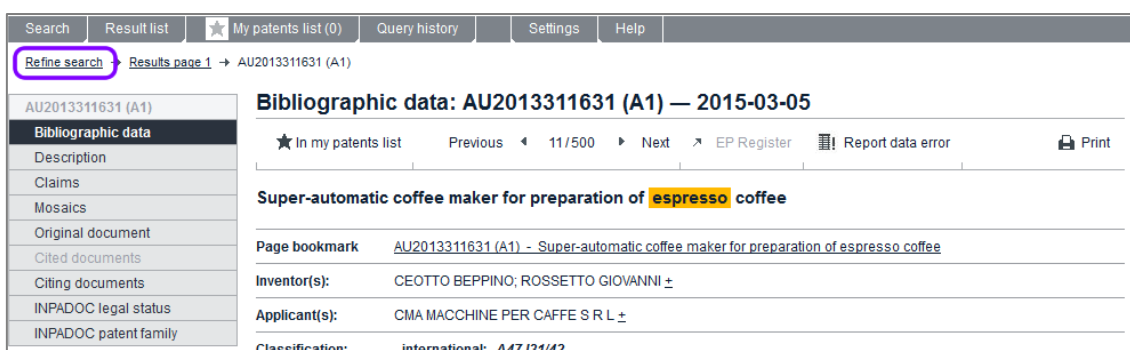
The **Refine search** link is available in both the **Result list** screen and the document screens.

- ✓ You are returned to the same search screen that you used to find these results, including the search terms that you entered.



The screenshot shows the top navigation bar with 'Search', 'Result list', 'My patents list (0)', 'Query history', 'Settings', and 'Help'. Below the navigation bar, the breadcrumb navigation reads 'Refine search > Results page 1'. The 'Refine search' link is circled in red. On the left, there are search filters: 'Smart search', 'Advanced search', and 'Classification search'. The main content area is titled 'Result list' and shows a summary: 'Approximately 1,041 results found in the Worldwide database for: txt = espresso and txt = machine using Smart search. Only the first 500 results are displayed.' There are also options for 'Select all (0/25)', 'Compact', 'Export (CSV | XLS)', 'Download covers', and 'Print'.

Refine search link in the breadcrumb navigation of the Result list



The screenshot shows the top navigation bar with 'Search', 'Result list', 'My patents list (0)', 'Query history', 'Settings', and 'Help'. Below the navigation bar, the breadcrumb navigation reads 'Refine search > Results page 1 > AU2013311631 (A1)'. The 'Refine search' link is circled in red. On the left, there is a sidebar with 'AU2013311631 (A1)' and a list of options: 'Bibliographic data', 'Description', 'Claims', 'Mosaics', 'Original document', 'Cited documents', 'Citing documents', 'INPADOC legal status', and 'INPADOC patent family'. The main content area is titled 'Bibliographic data: AU2013311631 (A1) — 2015-03-05'. It includes a star icon for 'In my patents list', navigation arrows, '11/500', 'Next', 'EP Register', 'Report data error', and 'Print'. The title of the document is 'Super-automatic coffee maker for preparation of espresso coffee'. Below the title, there are fields for 'Page bookmark', 'Inventor(s): CEOTTO BEPPINO; ROSSETTO GIOVANNI ±', 'Applicant(s): CMA MACCHINE PER CAFFE S R L ±', and 'Classification: - international: A47J31/42'.

Refine search link in the breadcrumb navigation for a document

Depending on what you want to do, you can now:

- select a different database
- add one or more keywords
- delete keywords
- extend your search with wildcards
- fill in additional search fields (when using Advanced search)
- use additional field identifiers (when using Smart search)

Clear search

Especially when using **Advanced search**, you can easily overlook an entry in one of the fields and you might wonder why your search does not return any results. It is therefore a good idea to clear all search fields in one go before entering new search terms.

→ Click the **Clear** link, which is located to the left of the **Search** button at the bottom of the search screen.

✓ This deletes all search terms in the current screen (e.g. **Advanced search**).

The search terms or selections in the other search screens (e.g. **Smart search** and **Classification search**) are retained until you clear them or close the browser window.

The screenshot shows the Advanced search interface. It is divided into two main sections: 'Enter name of one or more persons/organisations' and 'Enter one or more classification symbols'.
 In the first section, there are two rows of input fields. The first row is labeled 'Applicant(s):' with an information icon (i) and contains the text 'Institut Pasteur'. The second row is labeled 'Inventor(s):' with an information icon (i) and contains the text 'Smith'.
 In the second section, there are two rows of input fields. The first row is labeled 'CPC' with an information icon (i) and contains the text 'B06B3/02/low B06B3/04/low'. The second row is labeled 'IPC' with an information icon (i) and contains the text 'H03M1/12'.
 At the bottom right of the form, there are two buttons: 'Clear' and 'Search'. The 'Clear' button is highlighted with a purple circle.

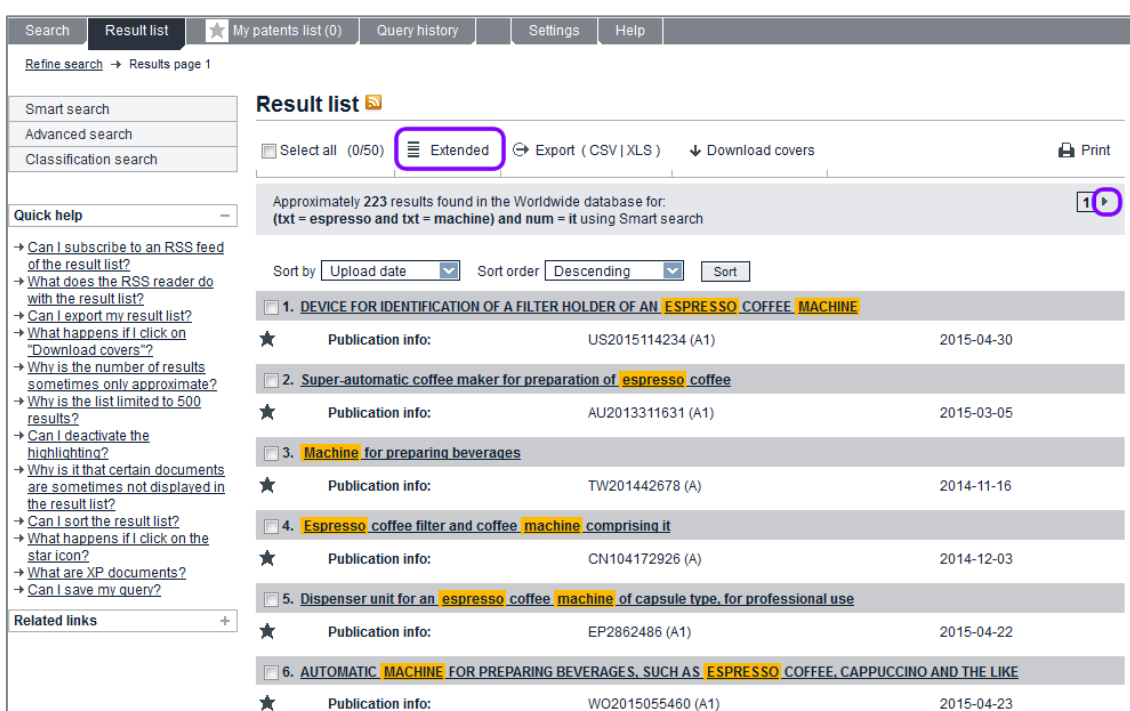
Clearing the search fields in the Advanced search screen

Browsing the result list

By default, the result list displays 25 results per page in extended view.

- To display 50 results per page, switch to compact view by clicking **Compact** in the toolbar.
- ✓ The bibliographic summary is reduced to the publication info.
- To switch back to extended view, click **Extended** in the toolbar.
- To view the next page of results, click the little black arrow icon in the page navigation.

The page navigation is located in both grey boxes above and below the result list.



The screenshot shows the Espacenet search results interface. At the top, there are navigation tabs: Search, Result list (selected), My patents list (0), Query history, Settings, and Help. Below the tabs, there's a search refinement section with 'Refine search' and 'Results page 1'. On the left, there are links for 'Smart search', 'Advanced search', and 'Classification search', along with a 'Quick help' section containing various FAQs. The main area is titled 'Result list' and shows search criteria: 'Approximately 223 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = it using Smart search'. There are controls for 'Select all (0/50)', 'Extended' (highlighted with a purple box), 'Export (CSV | XLS)', 'Download covers', and 'Print'. Below this, there are sorting options: 'Sort by' (Upload date), 'Sort order' (Descending), and a 'Sort' button. The results are listed in a table with 6 entries, each with a checkbox, a star icon, a title, and publication info. The first entry is '1. DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE' with publication info US2015114234 (A1) and date 2015-04-30. A page navigation arrow is also highlighted with a purple box.

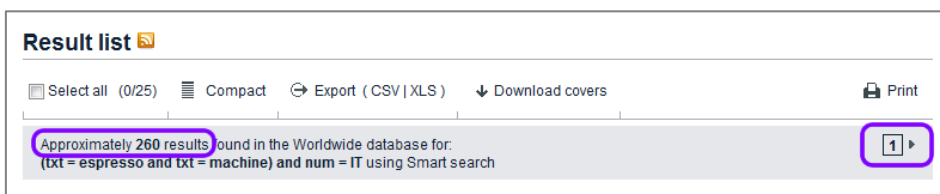
Publication info:	Publication info:	Publication info:
★	US2015114234 (A1)	2015-04-30
★	AU2013311631 (A1)	2015-03-05
★	TW201442678 (A)	2014-11-16
★	CN104172926 (A)	2014-12-03
★	EP2862486 (A1)	2015-04-22
★	WO2015055460 (A1)	2015-04-23

Browsing to the next page of results in compact view

Paging in search results

When processing a search request, Espacenet retrieves a list of results that are considered hits. Since this list can consist of up to 100,000 entries, it is not feasible to fetch all resulting entries from the database. Instead, Espacenet not only limits the number of results displayed to the 500 documents updated most recently, it also serves you with only 25 results at a time. It splits up the result list into pages, allowing you to browse through the pages one by one, using the page navigation.

When the **Result list** is displayed after a search, the page navigation initially only displays the number 1 for the current page and the black arrow icon that serves as a link to the next page.

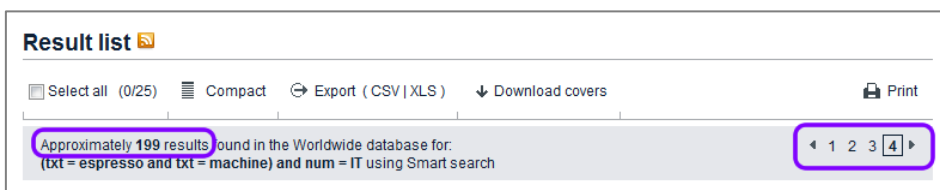


Page navigation starting with page 1

This apparent lack of paging controls is due to the fact that Espacenet has to inspect each page of results to perform deduplication, i.e. to weed out duplicates from the result list and group equivalent items together. Thus, Espacenet only provides direct links to pages it has already inspected.

Every time you click the arrow icon to go to the next page, the previously visited page number is added to the page navigation and serves as a link to that page. On page 2 and the following pages, there is also a black arrow icon to the left that serves as a link to the previous page.

→ To go to one of the previously visited pages, click on the black arrow icon to the left or click on the relevant page number.



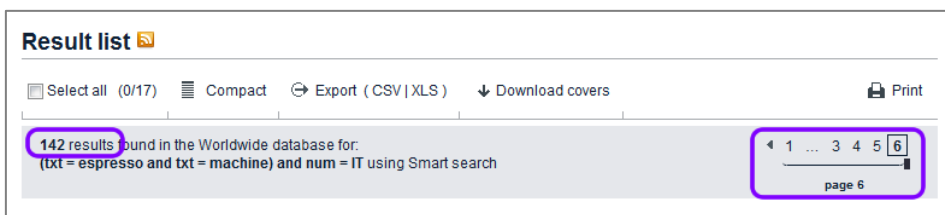
Number of results reduced, more page numbers added to the navigation

While you browse forwards through the result list, deduplication reduces the number of search results page by page.

If there are 500 search results or less and the last page has been reached, the word **Approximately** is no longer displayed, because this screen now shows the final number of hits.

The page navigation features the paging slider once the final number of hits has been calculated. By dragging the slider indicator you can access the page numbers that are currently not shown.

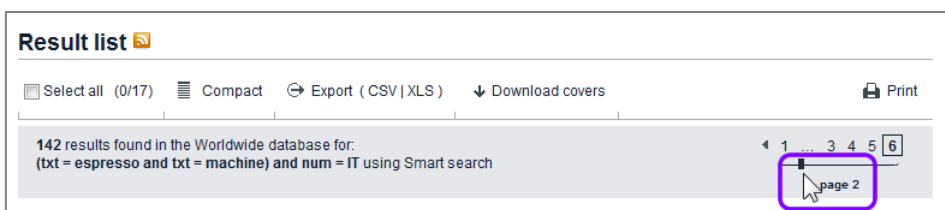
i Dragging means clicking on the slider indicator and moving the mouse while holding down the mouse button.



Final number of results, page navigation with the slider added

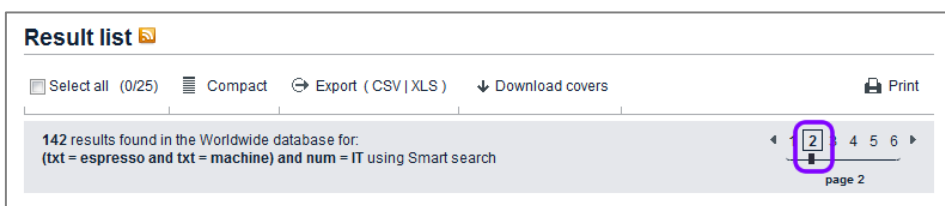
→ To go to a specific page, drag the slider indicator to the new position.

The hidden page numbers are displayed while you drag the slider indicator along.



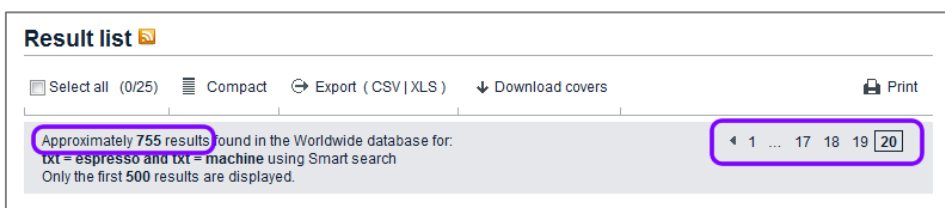
Dragging the slider to go to a specific page

→ Release the mouse button to go to the selected page number.



Page selected with the slider

If there are more than 500 results and the last page has been reached, there will be no further extension of the page navigation.



End of the page navigation reached at 500 results

Sorting the search results

You can sort the result list by upload date, priority date, inventor, applicant or CPC in ascending or descending order. The default is sorting by upload date in descending order, i.e. the most recent publications come first.

The upload date is the date the documents were included in the Espacenet database, which is not necessarily the same as their publication date.

The sorting options are only displayed if the number of search results is less than or equal to 500.

- Change the sort key by selecting an option from the **Sort by** list.
- If appropriate, change the sort order from descending to ascending or vice versa.
- Click on **Sort**.
- ✓ The list will be re-sorted.

The screenshot shows the 'Result list' interface. At the top, there are options for 'Select all (0/25)', 'Compact', 'Export (CSV | XLS)', 'Download covers', and 'Print'. Below this, a message states: 'Approximately 260 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = IT using Smart search'. A 'Sort by' dropdown menu is open, showing options: 'Applicant', 'Upload date', 'Priority date', 'Inventor', and 'Inv CPC'. The 'Sort' button is highlighted. The search results are for 'OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE'. The first result is: Applicant: GRUPPO CIMBALI SPA [IT]; CPC: A47J31/24, A47J31/446, A47J31/4492 (+2); IPC: A47J31/06, A47J31/44; Publication info: KR20150048659 (A), 2015-05-07; Priority date: 2013-10-28.

Changing the sort key and the sort order

Loading more results into the list

You can display more than 25 (50 in compact view) titles in the **Result list** screen by loading more results. This is especially useful if you want to print or export your complete result list or download the covers. The maximum number of results that can be loaded is 500.

- To start loading more results, go to page 1 of the search results.
- Click on **Load more results for export** at the bottom of the list.

The screenshot shows the 'Result list' interface with two search results. The first result is: '24. HEAT CHAMBER FOR MACHINES FOR INFUSIONS AND THE LIKE, PARTICULARLY FOR HEATING WATER FOR PREPARING ESPRESSO COFFEE'. The second result is: '25. Method for extracting espresso coffee particularly from a cartridge with crema generating septum, and beverage obtainable from the method'. At the bottom, there is a message: '142 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = IT using Smart search'. A 'Load more results for export' button is highlighted.

Adding the next set of results to the list on display

- ✓ The next 25 (extended view) or 50 (compact view) results are appended to the list. Note that the titles are no longer active links and that the page navigation is not available.

49. Machine for making espresso coffee, particularly for domestic use

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
GHIONE ROBERTO [IT]	HOGAR SRL [IT]	A47J31/30	A47J31/30 (IPC1-7); A47J31/30	US459937 (A) 1986-07-15	1984-05-29

50. Espresso coffee machine control system displaying boiler temperature and pressure

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
LONGO WALTER G [IT]	NUOVA FAEMA SPA [IT]	A47J31/56 G05D23/2412	A47J31/30 A47J31/56 G05D23/24 (+4)	US4551611 (A) 1985-11-05	1983-04-14

142 results found in the Worldwide database for:
(txt = espresso and txt = machine) and num = IT using Smart search

[Load more results for export](#) [Reset search result](#)

When the end of the result list has been reached, the **Load more results for export** button is replaced by the words **End of data**.

- To return to page 1 with page navigation and active title links, click on **Reset search result**.

141. Espresso coffee machine

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
TERZARIOL ALESSANDRO [IT]	M M DESIGN S R L [IT]	A47J31/40	A47J31/40 (IPC1-7); A47J31/00 A47J31/40 (+1)	EP1125536 (A2) 2001-08-22 EP1125536 (A3) 2001-10-24 EP1125536 (B1) 2004-01-07	2000-02-04

142. Espresso coffee machine

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
CORTESE VIRGINIO [IT]	ESSEGIELLE SRL [IT]	A47J31/0663 A47J31/4467	A47J31/06 A47J31/44 (IPC1-7); A47J31/06	EP1034729 (A1) 2000-09-13	1999-03-12

142 results found in the Worldwide database for:
(txt = espresso and txt = machine) and num = IT using Smart search

[End of data](#) [Reset search result](#)

End of result list reached, all search results displayed on one page

Printing the search results

You can print the result list either page by page or as the complete list when you have reached the end of the result list by loading more search results.

- To print all the results you are currently viewing, click on the **Print** icon in the toolbar or press **CTRL+P**.
- ✓ The list is printed to your default printer in the same layout as you see on the screen.



Espacenet

Result list

Approximately 223 results found in the Worldwide database for:
 (txt = espresso and txt = machine) and num = IT using Smart search

1. DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE					
Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
ERBA ROBERTO [IT]	GRUPPO CIMBALI SPA [IT]	<u>A47J31/24</u> <u>A47J31/446</u> <u>A47J31/4492</u> (+2)	A47J31/06 A47J31/44	KR20150048659 (A) 2015-05-07	2013-10-28
2. Super-automatic coffee maker for preparation of espresso coffee					
Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
CEOTTO BEPPINO ROSSETTO GIOVANNI	CMA MACCHINE PER CAFFE S R L	<u>A47J31/42</u>	A47J31/42	AU2013311631 (A1) 2015-03-05	2012-09-07
3. Machine for preparing beverages					
Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
BALESTIER DIEGO [IT] VAN EEDEN FRANCISCUS BENEDICTUS MARIA [NL] (+1)	ILLYCAFFE SPA [IT]	<u>A47J31/4403</u> <u>A47J31/4457</u> <u>A47J31/46</u>	A47J31/00 A47J31/44	TW201442678 (A) 2014-11-16	2013-03-07

Result list as it appears in print

Exporting search results to CSV or XLS

The export function allows you to save the current result list to a CSV file (default) or to an XLS file. CSV (character-separated values) files are text-only data and can be used for further processing, while the XLS format is best opened and edited in Microsoft Excel.

The following columns are exported:

- Title
- Publication number
- Publication date
- Inventor(s)
- Applicant(s)
- International classification (IPC)
- Cooperative Patent Classification (CPC)
- Application number
- Date of application
- Priority number(s)
- Patents cited in the search report
- Literature cited in the search report
- Patents cited during examination
- Literature cited during examination
- Other patent citations
- Other literature citations
- Patents used in opposition
- Literature used in opposition
- Patents cited by the applicant
- Literature cited by the applicant
- International search citation
- International search NPL citation
- Supplementary international search citation
- Supplementary international search NPL citation


You can export the result list either page by page or when you have retrieved the complete list by loading more search results.

- To export the list in CSV format, click on **Export** or on the **CSV** link in the toolbar.
- To export the list in XLS format, click on the **XLS** link in the toolbar.
- Choose where to save the file.
- Enter a distinctive file name by changing the default name (which is **result.csv** or **result.xls**).

This is what the exported list looks like when opened in MS Excel.

Below the EPO logo you will find a summary of your search query. The underlined publication numbers in the spreadsheet have active hyperlinks to Espacenet.

- Click on the publication number of a document to open it online in Espacenet.

	A	B	C	D	E	F
1						
2	142 results found in the Worldwide database for:					
3	[txt = espresso and txt = machine] and num = IT using Smart search					
4	Displaying publications 1 - 142 as of 2015-06-24					
5	<u>Title</u>	<u>Publication number</u>	<u>Publication date</u>	<u>Inventor(s)</u>	<u>Applicant(s)</u>	<u>International classification</u>
6	DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE	KR20150048659 (A)	2015-05-07	ERBA ROBERTO [IT]	GRUPPO CIMBALI SPA [IT]	A47J31/44 A47J31/06
7	Super-automatic coffee maker for preparation of espresso coffee	AU2013311631 (A1)	2015-03-05	CEOTTO BEPPINO ROSSETTO GIOVANNI	CMA MACCHINE PER CAFFÈ S R L	A47J31/42
8	Machine for preparing beverages	TW201442678 (A)	2014-11-16	BALESTIER DIEGO [IT] VAN EEDEN FRANCISCUS BENEDICTUS MARIA [NL] FUSCO COSIMO [IT]	ILLYCAFFÈ SPA [IT]	A47J31/00 A47J31/44
9	Espresso coffee filter and coffee machine comprising it	CN104172926 (A)	2014-12-03	MORGANDI ARTURO	TENACTA GROUP SPA	A47J31/06
10	Dispenser unit for an espresso coffee machine of capsule type, for professional use	EP2862486 (A1)	2015-04-22	FREGNAN ANDREA [IT]	ELEKTRA S R L [IT]	A47J31/36
11	AUTOMATIC MACHINE FOR PREPARING BEVERAGES, SUCH AS ESPRESSO COFFEE, CAPPUCCINO AND THE LIKE	WO2015055460 (A1)	2015-04-23	AARDENBURG CORNELIS J M [CH]	SWISS CAFFÈ ASIA LTD [CN] AARDENBURG CORNELIS J M [CH]	A47J31/44

Exported XLS file with hyperlinks to Espacenet

If you are interested in the EPO's annual reports and statistics on European patent applications, visit the EPO website and go to **About us > Annual reports and statistics**.

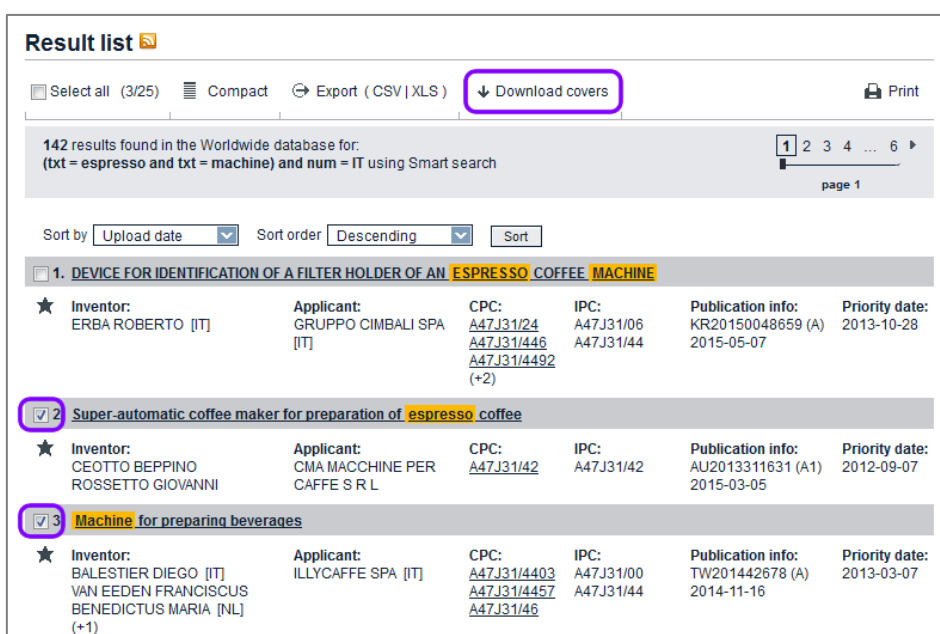
<http://www.epo.org/about-us/annual-reports-statistics.html>

Downloading cover sheets

In addition to exporting and printing your search results, you can also download the covers (the first pages of the patent documents found) as a PDF file. You can select individual covers or download all covers of the list currently on display. The maximum number of covers that can be downloaded is 500.

i If you want to download documents, your browser must be configured to allow cookies from the Espacenet website.

- To download individual covers, select the relevant check boxes to the left of the titles.
- Click on **Download covers** in the toolbar.



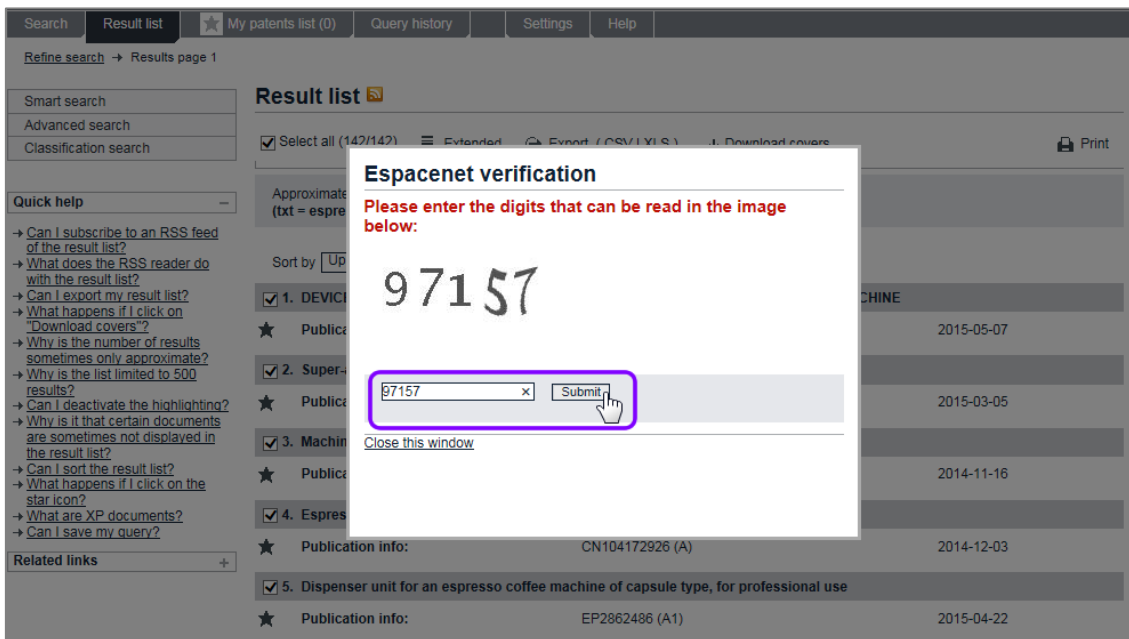
The screenshot shows the 'Result list' interface. At the top, there are options for 'Select all (3/25)', 'Compact', 'Export (CSV | XLS)', and a highlighted 'Download covers' button. Below this, it states '142 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = IT using Smart search'. There are pagination controls showing 'page 1' and a 'Sort by' dropdown set to 'Upload date' with a 'Sort' button. The main content area lists three patent entries, each with a checked checkbox on the left:

1.	DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE
★	Inventor: ERBA ROBERTO [IT] Applicant: GRUPPO CIMBALI SPA [IT] CPC: A47J31/24, A47J31/446, A47J31/4492 (+2) IPC: A47J31/06, A47J31/44 Publication info: KR20150048659 (A) 2015-05-07 Priority date: 2013-10-28
<input checked="" type="checkbox"/>	2 Super-automatic coffee maker for preparation of espresso coffee
★	Inventor: CEOTTO BEPPINO, ROSSETTO GIOVANNI Applicant: CMA MACCHINE PER CAFFE S R L CPC: A47J31/42 IPC: A47J31/42 Publication info: AU2013311631 (A1) 2015-03-05 Priority date: 2012-09-07
<input checked="" type="checkbox"/>	3 Machine for preparing beverages
★	Inventor: BALESTIER DIEGO [IT], VAN EEDEN FRANCISCUS, BENEDICTUS MARIA [NL] (+1) Applicant: ILLYCAFFE SPA [IT] CPC: A47J31/4403, A47J31/4457, A47J31/46 IPC: A47J31/00, A47J31/44 Publication info: TW201442678 (A) 2014-11-16 Priority date: 2013-03-07

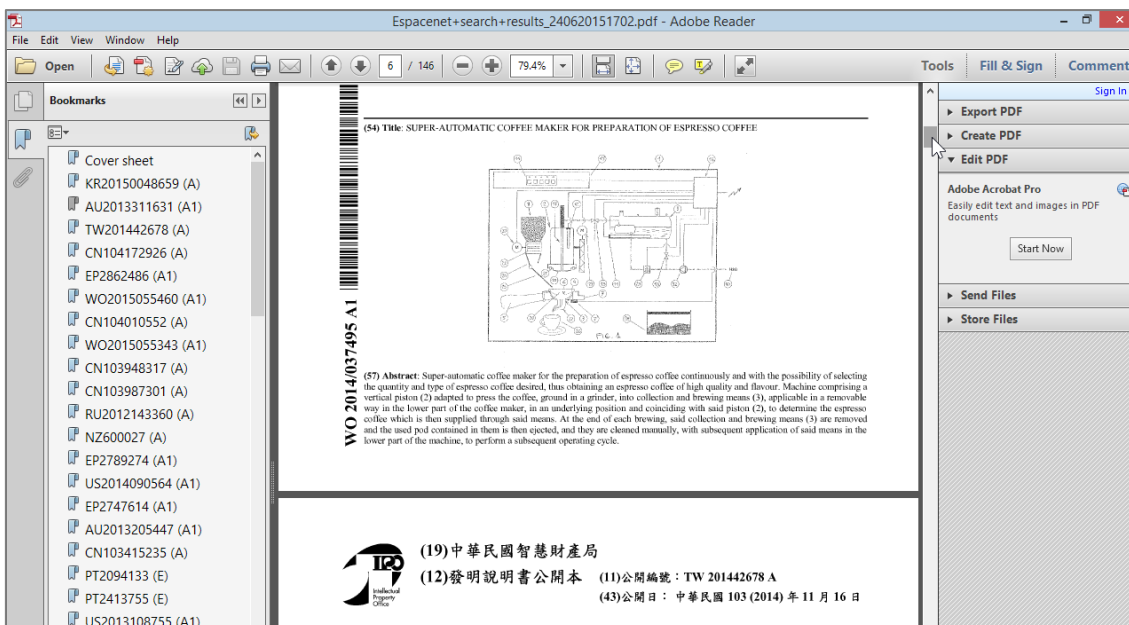
Individual titles selected for downloading the covers

- To download all available covers, first append all search results to the result list by clicking on **Load more results for export** repeatedly.
- Click on **Download covers** in the toolbar.
- The **Espacenet verification** window opens and shows a captcha image with a security code. You can see in the background that all check boxes have been automatically selected.
- Enter the digits shown in the captcha image in the field below.
- Click on **Submit**.
- Wait for the download to start.

Depending on the number of covers, this may take a few minutes.



- At the browser prompt, choose whether to open or save the PDF file.
- To close the verification window and return to the Result list, click either on the **Close this window** link or anywhere in the greyed area outside the window.
- ✓ The downloaded PDF file contains a cover sheet with the list of included titles and a bookmark for each application cover page.

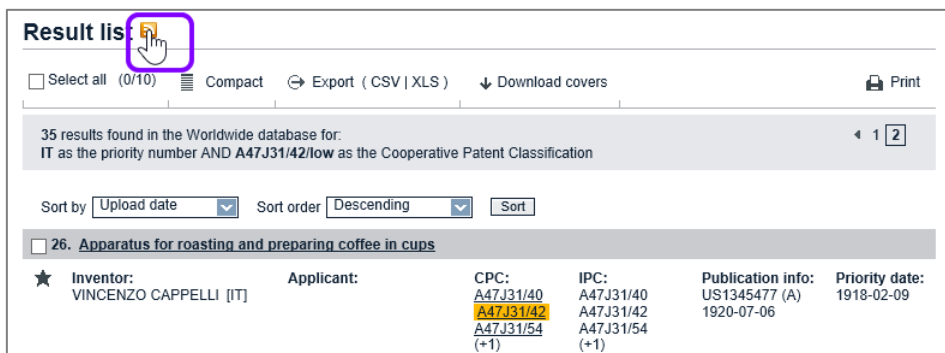


Browsing the PDF file containing the downloaded covers

Subscribing to RSS feeds

An interesting option to follow up your search results is to subscribe to an RSS feed. Microsoft Internet Explorer, for example, has a built-in RSS reader to manage your feeds. If new applications matching your search query are published in Espacenet, you will see them in your RSS feed.

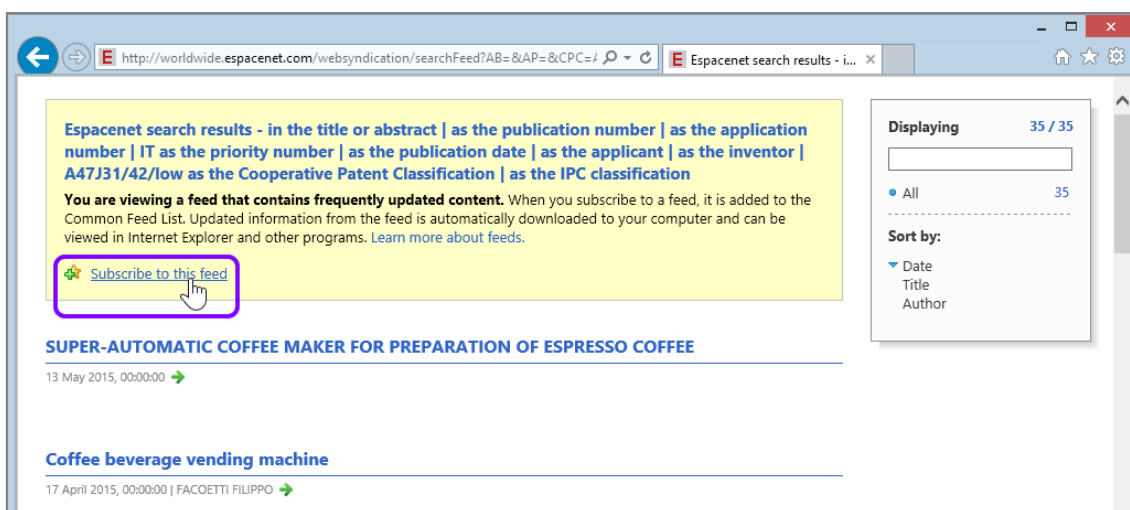
→ Click the orange **RSS** icon to the right of the **Result list** heading.



RSS icon in the search results

✓ The search results are displayed as an RSS page.

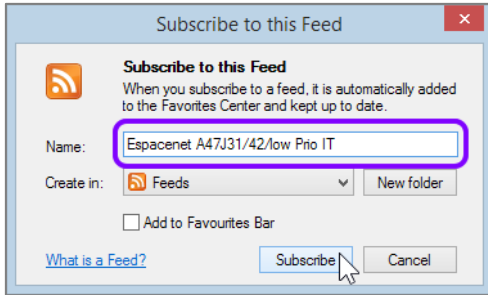
→ Click **Subscribe to this feed** in the yellow box on the top of the list.



Viewing the search results as an RSS feed

→ Enter a name for your feed and click **Subscribe**.

✓ The RSS feed is saved to your feed list.

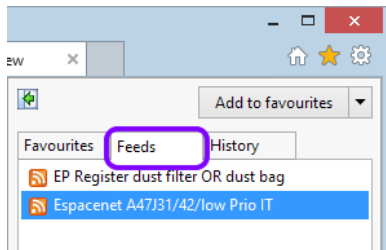


Subscribing to new RSS feed

Espacenet allows you to save the first 100 entries of a search result list to a new RSS feed. New entries will be added to the beginning of the feed. The corresponding number of entries at the end of the feed will be deleted if the maximum number of 100 is exceeded. In Microsoft Internet Explorer, however, the maximum number of entries in an RSS feed is 2,500.

→ To view your feeds later, click the Favourites icon in the toolbar and select the **Feeds** tab.

If there are new files matching the search query, their number will be displayed as **New**.



Viewing RSS feeds in Internet Explorer

My patents list

Espacenet allows you to maintain a personal list of favourite patent documents in **My patents list**. You can save up to 100 documents in **My patents list**, and from it you can download selected documents or export the list for further study. **My patents list** expires if you do not access it for over a year.

Cookies and local data storage

My patents list stores your entries in a local browser cookie – which means that a specific **My patents list** can only be viewed when you are logged into the same user account on the same computer and are working with the same browser that you were using when creating the list.

My patents list does not work if your browser does not allow cookies for the Espacenet website. The data that you saved in **My patents list** can be accessed until the cookie expires after one year and as long as the cookie is not deleted.

Viewing My patents list

The number indicated on the **My patents list** tab indicates how many documents you have already added to the list.

→ Click on the **My patents list** tab to view your personal list.

Search Result list **My patents list (52)** Query history Settings Help

Smart search
Advanced search
Classification search

Quick help

→ Can I export this list?
→ How do I remove documents from the list?
→ What happens if I click on "Download"?
→ How many documents can I store in the "My patents list"?
→ Can I sort the "My patents list"?
→ When will this list expire?

My patents list

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

52 items in my patents list

Sort by: Priority date (dropdown) Sort order: Descending Sort

1. <input checked="" type="checkbox"/>	2. <input checked="" type="checkbox"/>	3. <input checked="" type="checkbox"/>	4. <input checked="" type="checkbox"/>
1. <input checked="" type="checkbox"/> Su...	2. AUTOMATIC MACHINE FOR PREPARING BEVERAGES, SUCH AS ESPRESSO COFFEE, CAPPUCCINO AND THE LIKE	3. Machine for the dispensing of espresso coffee	4. MACHINE FOR MAKING AND DISPENSING COFFEE-BASED BEVERAGES
Inventor: CEOTTO BEPPINO ROSSETTO GIOVANNI	Inventor: AARDENBURG CORNELIS J M [CH]	Inventor: LEONARDI FAUSTO	Inventor: LLOPIS FRANCESCO DANIELE [IT]
Applicant: CMA MACCHINE PER CAFFÈ S R L	Applicant: SWISS CAFFÈ ASIA LTD [CN] AARDENBURG CORNELIS J M [CH]	Applicant: STUDIO LEONARDI SRL ENGINEERING DESIGN AGENCY LTD	Applicant: SAN REMO S R L [IT]
CPC: A47J31/42	CPC: A47J31/4489	CPC: A47J31/4403 A47J31/36 A47J31/465	CPC: A47J31/002 A47J31/36 A47J31/368
IPC: A47J31/42	IPC: A47J31/44	IPC: A47J31/46	IPC: A47J31/00 A47J31/36
Publication info: AU2013311631 (A1) 2015-03-05	Publication info: WO2015055460 (A1) 2015-04-23	Publication info: CN103987301 (A) 2014-08-13	Publication info: WO2015055343 (A1) 2015-04-23
Priority date: 2012-09-07	Priority date: 2013-10-17	Priority date: 2011-08-09	Priority date: 2013-10-18

My patents list with selected titles

The features of **My patents list** are similar to those of the **Result list** screen:

- [1] The toolbar provides functions for managing the list: selecting, exporting and removing items, downloading selected documents, printing.
- [2] You can toggle the list mode between extended view (default, shows 25 items) and compact view (shows 50 items).
- [3] The page navigation provides page numbers and arrow icons to browse the list.
- [4] You can change the sort order.

Adding documents to My patents list

Patent documents can be added to **My patents list** from the **Result list** screen or when you are viewing an individual application.

→ In the **Result list** screen, click on the black star icon to the left of the bibliographic data.

- ✓ The star icon turns red, indicating that this patent document has been added to **My patents list**.

The screenshot shows the 'Result list' interface with the following details:

- Search criteria: (txt = espresso and txt = machine) and num = IT using Smart search
- 142 results found in the Worldwide database for: (txt = espresso and txt = machine) and num = IT using Smart search
- Sort by: Upload date, Sort order: Descending
- Three patent entries are displayed:

Inventor	Applicant	CPC	IPC	Publication info	Priority date
ERBA ROBERTO [IT]	GRUPPO CIMBALI SPA [IT]	A47J31/24 A47J31/446 A47J31/4492 (+2)	A47J31/06 A47J31/44	KR20150048659 (A) 2015-05-07	2013-10-28
★ CEOTTO BEPPINO ROSSETTO GIOVANNI <i>Add to my patents list</i>	CMA MACCHINE PER CAFFEE S R L	A47J31/42	A47J31/42	AU2013311631 (A1) 2015-03-05	2012-09-07
BALESTIER DIEGO [IT] VAN EEDEN FRANCISCUS BENEDICTUS MARIA [NL] (+1)	ILLYCAFFE SPA [IT]	A47J31/4403 A47J31/4457 A47J31/446	A47J31/00 A47J31/44	TW201442678 (A) 2014-11-16	2013-03-07

Adding a document to My patent list from the search result list

→ In the document you are viewing, click on **In my patents list** in the toolbar.

- ✓ The star icon to the left of **In my patents list** turns red.

Search Result list **★ My patents list (53)** Query history Settings Help

AU2013311631 (A1) → WO2014037495 (A1)

WO2014037495 (A1) **Bibliographic data: WO2014037495 (A1) — 2014-03-13**

Bibliographic data **★ In my patents list** EP Register Report data error Print

The red star in the Bibliographic data screen indicates that this document has been added to My patents list

Removing documents from My patents list

When you are viewing search results or an individual application, you can tell by the red star icon that a patent document has been added to **My patents list**.

- To remove an individual document from **My patents list**, click on the red star icon in the **Result list** screen or click on **In my patents list** in the document screen toolbar.
 - ✓ The star icon turns black, indicating that this document is now no longer in **My patents list**.
- To remove multiple documents from the list, go to **My patents list**.
- Select the check boxes of all documents that you wish to remove from the list.
- Click on **Remove selected** in the toolbar.
 - ✓ The selected documents are removed from the list and the number of saved items in the **My patents list** tab is updated.

Search Result list **★ My patents list (60)** Query history Settings Help

Smart search
Advanced search
Classification search

My patents list

Select all (8/25) Compact Export (CSV | XLS) **✕ Remove selected** Download Print

60 items in my patents list 1 2 3 ▶

Sort by Priority date Sort order Ascending Sort

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
<input checked="" type="checkbox"/> 1. Espresso coffee machine with cup heater and dryer - has grid on plate above boiler on which cups can be dried and warmed					
	CIMBALI GIUSEPPE SPA OFF [IT]	A47J31/24 A47J31/44	A47J31/24 A47J31/44 (IPC1-7): A47J31/44	FR2326898 (A1) 1977-05-06 FR2326898 (B3) 1980-11-07	1975-10-10
<input checked="" type="checkbox"/> 2. Coffee machine					
ILLY ERNESTO	ILLY ERNESTO	A47J31/36 A47J31/3657	A47J31/24 A47J31/36 A47J31/40 (+1)	US4353293 (A) 1982-10-12	1980-06-10
<input checked="" type="checkbox"/> 3. MACHINE PERFECTIONNEE POUR LA PREPARATION DE CAFE DIT "ESPRESSO "					
CIGHETTI PAOLO	NUOVA FAEMA SPA [IT]	A47J31/007 A47J31/24	A47J31/00 A47J31/24 (IPC1-7): A47J31/10	FR2484235 (A1) 1981-12-18 FR2484235 (B1) 1986-10-24	1980-06-11

Removing selected documents from My patents list

Downloading documents from My patents list

You can download the complete set of original documents, i.e. abstract/bibliography, description, claims, drawings and search report (where available), for selected patent documents from **My patents list**. These documents will be bundled into one PDF file up to a maximum of 500 pages. This means that you have to start several downloads if you want more than 500 pages.

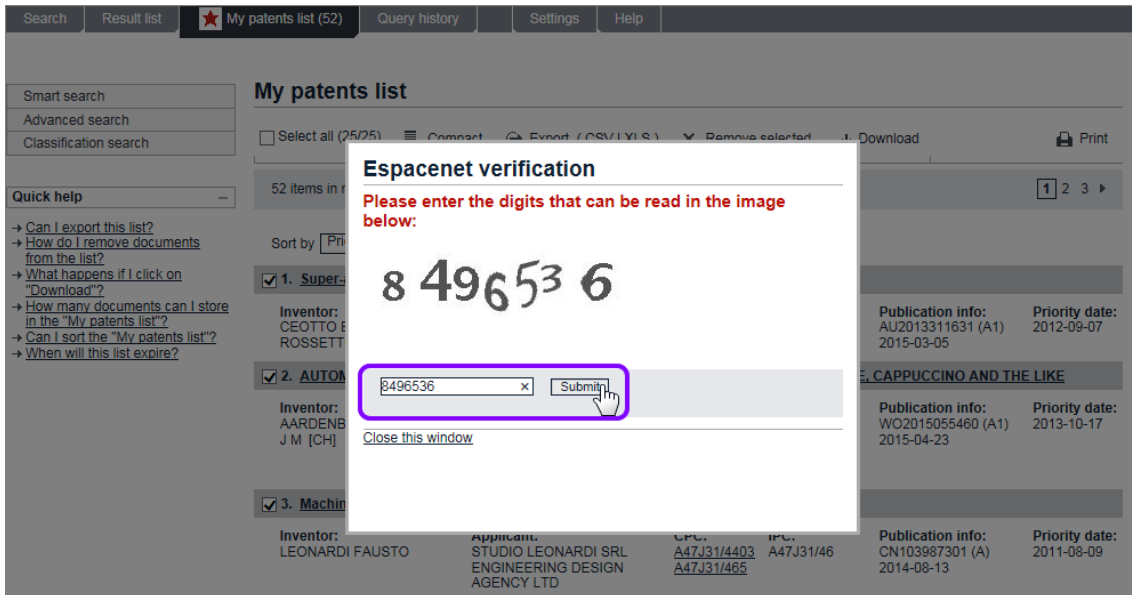
i If you want to download documents, your browser must be configured to allow cookies from the Espacenet website.

- Go to **My patents list**.
- To view all your list entries (the maximum number is 100), click on the **Load more results for export** button until you reach the end of the list.
- Select the check boxes for the relevant documents.
- Click on **Download** in the toolbar.

The **Espacenet verification** window opens and shows a captcha image with a security code.

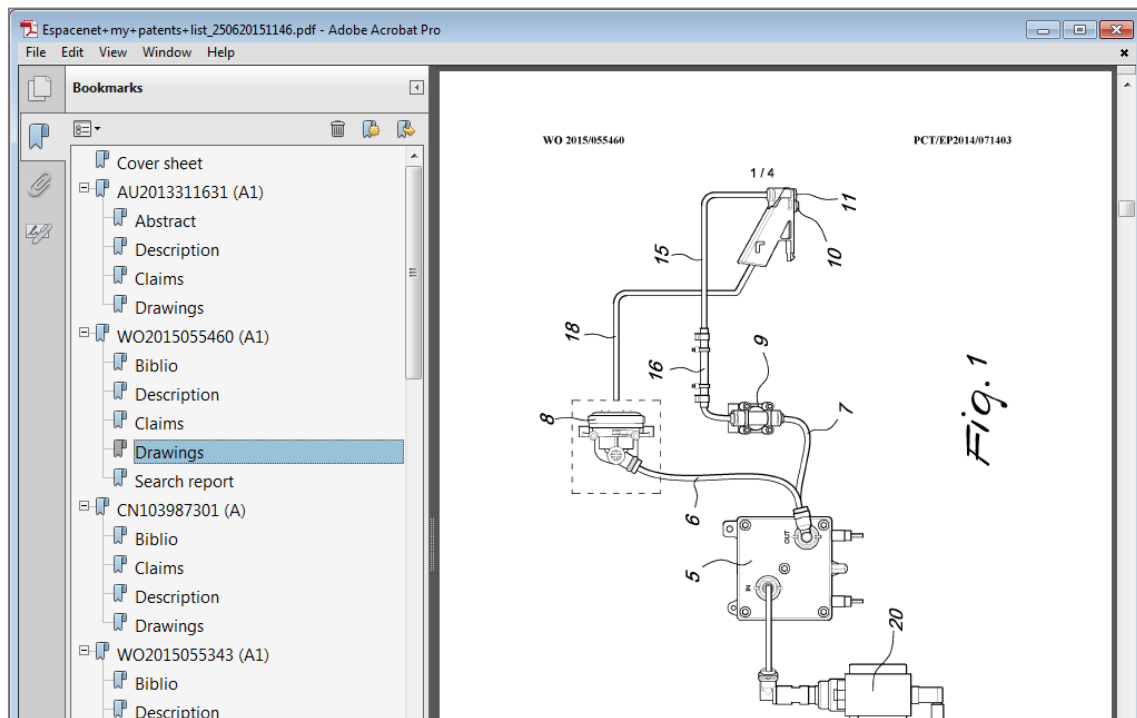
- Enter the digits shown in the captcha image in the field below.
- Click on **Submit**.
- Wait for the download to start.

i Depending on the total number of document pages, it may take a few minutes until the browser prompt appears. If you click on **Submit** again before the file is ready for download, a message appears indicating that Espacenet takes your action as a sign of your being a search robot.



Entering the security code from the captcha image to download documents

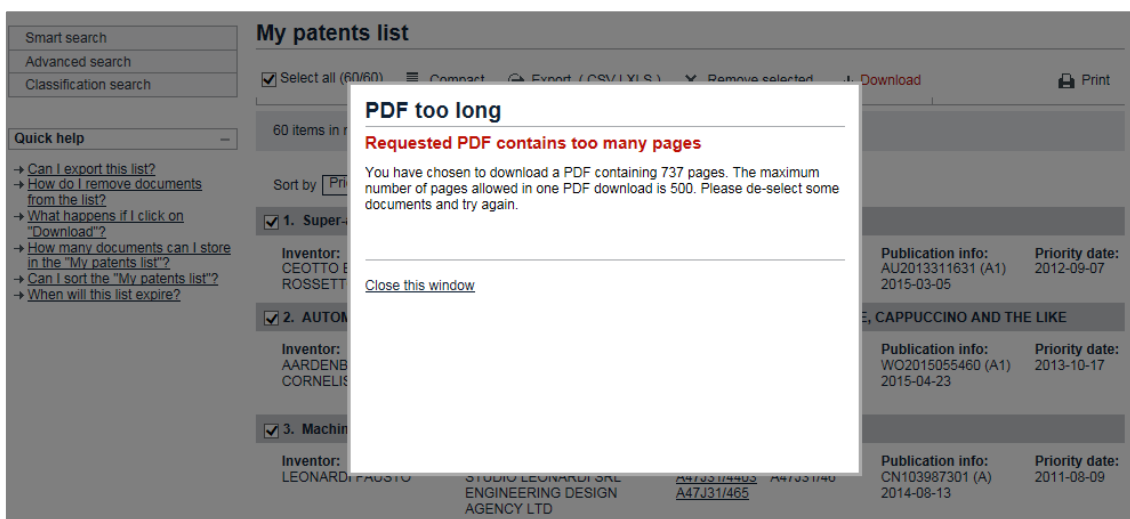
- At the browser prompt, select whether to open or to save the PDF file.
- To close the verification window and return to **My patents list**, click either on **Close this window** or anywhere in the greyed area outside the window.
- ✓ The downloaded PDF file contains a cover sheet with the list of included titles and has bookmarks for each publication number and patent document component.



Browsing the PDF with documents downloaded from My patents list

If your download file would contain more than 500 pages, a window displaying a message to that effect will open.

→ Close the window and clear an appropriate number of check boxes to proceed.



Too many documents selected for download, thus exceeding 500 pages

Sorting My patents list

[same as in Result list]

Exporting My patents list to CSV or XLS

[same as in Result list]

Printing My patents list

[same as in Result list]

Using the query history

If **Query history** is enabled in the Espacenet settings, you can retrieve a saved query to view the results or to use it as a starting point for a new search. The number of query history entries to be saved can be set to 10 (default), 20 or 50.

i The query history is not enabled by default; this can be done under **Settings**. To enable you to personalise the Espacenet settings and use the query history, your browser must allow cookies from the Espacenet website.

→ Go to **Query history**.

→ Click on the query you want to use.

✓ The search screen you were using for that query is displayed and the fields are populated with your search terms.

The screenshot shows the 'Query history' page in Espacenet. The navigation bar at the top includes 'Search', 'Result list', 'My patents list (3)', 'Query history', 'Settings', and 'Help'. The 'Query history' section is active, displaying a list of three saved queries. The first query is 'espresso machine, 2012', the second is 'espresso machine, IT', and the third is 'espresso machine'. The second query is highlighted with a red box. The interface includes a toolbar with options like 'Select all', 'Compact', 'Export (CSV | XLS)', 'Remove selected (0)', and 'Print'. A sidebar on the left contains search options and a quick help section. The main content area shows the details of the selected query, including the search criteria and the number of results found.

Selecting an entry from the query history

The features in the **Query history** screen are similar to those in **My patents list**:

- [1]** The toolbar provides functions for managing the list: selecting, exporting and removing items, printing.
- [2]** You can toggle the list mode between extended view (default, shows 25 items) and compact view (shows 50 items).
- [3]** The page navigation provides page numbers and arrow icons to browse the list.

Viewing patent documents

When you open a patent application you are interested in, you will see that the user interface consists of five to six areas:

- [1] Main navigation
- [2] Navigation bar
- [3] Quick help
- [4] Toolbar
- [5] Data section
- [6] Text section with Patent Translate feature

The screenshot shows the Espacenet patent search interface for the patent EP2865302 (A1). The interface is divided into several sections, with numbered callouts (1-6) highlighting specific areas:

- 1**: Main navigation bar at the top, including "Search", "Result list", "My patents list (0)", "Query history", "Settings", and "Help".
- 2**: Navigation bar on the left side, showing "EP2865302" and "Bibliographic data".
- 3**: Quick help section on the left side, containing a list of frequently asked questions.
- 4**: Toolbar at the top of the main content area, including "In my patents list", "EP Register", "Report data error", and "Print".
- 5**: Data section in the main content area, displaying bibliographic data such as "Inventor(s): ERBA ROBERTO [IT] ±", "Applicant(s): GRUPPO CIMBALI SPA [IT] ±", "Classification: - international: A47J31/44", "Application number: EP20140189065 20141015", and "Priority number(s): IT2013MI01791 20131028".
- 6**: Text section in the main content area, displaying the "Abstract of EP2865302 (A1)" and a "Patent Translate" feature with a dropdown menu set to "Albanian" and a "patenttranslate" button.

The abstract text reads: "A device for identification of a filter holder (4, 13) of an espresso coffee machine, comprising a support (3, 17, 18) on which the filter holder to be identified is removably placed, at least one thermopile radiation sensor (6, 6a) having a plurality of heat radiation-sensitive elements, an optical apparatus (8, 8a) that focuses radiations on said sensitive elements and circuit means, which receive electric signals transmitted by said sensitive elements and process a corresponding output signal. Said radiation sensor (6, 6a) is placed, relative to the support (3, 17, 18) for the filter holder to be identified, such that at least one portion thereof (10, 11, 15), when it is placed on the support, falls within the field of view (9, 9a) of the optical apparatus (8, 8a) of said sensor, such that said circuit means can determine a signal representative of the radiations of the filter holder portion detected by said optical apparatus of the sensor. According to the invention, the filter holder portion that is identified by the radiation sensor is a beverage dispensing spout portion of the filter holder." A technical drawing of the device is shown to the right of the abstract.


Overview of a patent application in the **Bibliographic data** screen

Navigating through the document

You can use the **navigation bar** [2] to access further information about the patent document you are viewing, e.g. to inspect the original documents.

→ Click an item in the navigation bar to view more details in the corresponding screen.

As not all of the information may be available for every document, some items in the navigation may be disabled. For example, the bibliographic data may be available for a specific document, but there may be no cited documents. In this case, the **Cited documents** item is greyed out and cannot be clicked.

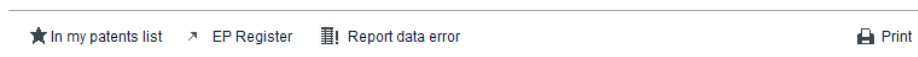
 Adobe Reader 7 or higher must be installed on your computer to display the documents in the PDF viewer in the **Mosaics** and **Original document** screen.

Bibliographic data	Contains all the important information about a patent document, where available: title, inventor(s) and applicant(s), classifications (IPC and CPC), application number and date, priority number(s) and date(s), "also published as" documents, the abstract and a drawing.
Description	Contains the description of an application as searchable text in English. Where the original description is not available in English, the description of a corresponding document is displayed. Links to the patent family members lead to the corresponding original documents in other languages. Translation into more languages is possible with Patent Translate.
Claims	Contains the claims of an application as searchable text in English. Where the original claims are not available in English, the claims of the corresponding document are displayed. Links to the patent family members lead to the corresponding original documents in other languages. Translation into more languages is possible with Patent Translate. The claims tree displays the claims text in a tree-like structure that can be expanded and collapsed, supported by an interactive tree diagram.
Mosaics	Displays all drawings of an application (where available) as miniature figures in the PDF viewer. The PDF files can be printed and downloaded.

Original document	Displays the original patent application (where available) in the PDF viewer. If the original document cannot be retrieved, a corresponding document is displayed. The PDF files can be printed and downloaded.
Cited documents	Lists documents (patent documents and non-patent literature) cited by the patent office or by the applicant, describing the known inventions closest to the one in the application.
Citing documents	Lists other patent documents in which this document has been cited (where available).
INPADOC legal status	Contains legal status data relating to events in the lifetime of a patent document (where available in Espacenet).
INPADOC patent family	Lists all of the patent family members linked to this document by at least one priority.

Using toolbar functions

The **toolbar** [4] provides some extra functions for working with the currently opened document. Depending on the screen you are viewing, there are different options. In the listing screens, i.e. **Cited documents**, **Citing documents**, **INPADOC patent family**, the functions are similar to those in the **Result list** screen.



Toolbar in the Bibliographic data screen



Toolbar in the Bibliographic data screen if opened from the Result list



Toolbar in the Bibliographic data screen if opened from My patents list



Toolbar in the INPADOC patent family screen

In my patents list	Add the document to My patents list (cookies must be enabled)
EP Register	Open the document in the European Patent Register
CC Register	Open the document in the national patent register (CC stands for the country code, e.g. IT or GB)


Global Dossier	Open the document in Global Dossier (provided by the EPO and the co-operating offices)
Previous	Go to the previous document in Result list/My patents list (available when the document was opened from the Result list/My patents list screen)
Next	Go to the next document in Result list/My patents list (available when the document was opened from the Result list/My patents list screen)
Report data error	Open the general EPO contact form (pre-filled with core data)
Select all	Select the check boxes for all items in the list for download or export
Compact	Change the list view from extended (default, shows 25 items) to compact (shows 50 items)
Export (CSV/XLS)	Export the core data of the selected list items to a CSV or XLS file
Download covers	Download a PDF file containing the first page of the original document for each of the selected list items
CCD	Open the Common Citation Document (CCD viewer) with citation details from international search reports and classifications (only in Cited documents and INPADOC family screen and where applicable)
Print	Print the contents of the current screen

Links to other patent documents

Links to other documents in Espacenet are underlined. The corresponding documents in the **Also published as** section are marked with document icons or arrows, depending on the availability of data.

→ Click on the link to open the relevant document.

[IT2013MI01791 20131028](#) Opens the priority document in the **Bibliographic data** screen

 [US2015114234 \(A1\)](#) Opens the document in the **Original document** screen

→ [KR20150048659 \(A\)](#) Opens the document in the **Bibliographic data** screen (no original document available)

→ To go back to your starting point or one of the intermediate steps, use the links in the breadcrumb navigation located below the main navigation bar.

The screenshot shows a patent document page for KR20150048659 (A). At the top, there is a navigation bar with tabs for Search, Result list, My patents list (0), Query history, Settings, and Help. Below this is a breadcrumb trail: EP2865302 (A1) → ITMI20131791 (A1) → Family → CN204192374 (U) → KR20150048659 (A). The main content area is titled "Bibliographic data: KR20150048659 (A) — 2015-05-07". It includes a sidebar with a table of contents (Description, Claims, Mosaics, Original document, Cited documents, Citing documents, INPADOC legal status) and a main section with a star icon for "In my patents list", a red exclamation mark for "Global Dossier", and a printer icon for "Report data error". The title of the document is "DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE". Below this, there is a "Page bookmark" section with a link to the document and an "Inventor(s)" section listing ERBA ROBERTO [IT] ±.

The breadcrumb navigation provides links to previously visited documents or pages

If you have opened the document you are currently viewing from the **Result list** or the **My patents list** screen, you can browse to the previous or next document directly, without having to return to the list first.

→ To go to the previous or next document in the search result list, click on **Previous** or **Next** in the toolbar.

The screenshot shows a patent document page for CN103339254 (A). At the top, there is a navigation bar with tabs for Refine search, Results page 3, and CN103339254 (A). Below this is a breadcrumb trail: Refine search → Results page 3 → CN103339254 (A). The main content area is titled "Bibliographic data: CN103339254 (A) — 2013-10-02". It includes a sidebar with a table of contents (Bibliographic data, Description, Claims, Mosaics, Original document, Cited documents, Citing documents, INPADOC legal status, INPADOC patent family) and a main section with a star icon for "In my patents list", a "Previous" button, "52/500" pages, a "Next" button, a red exclamation mark for "Global Dossier", and a printer icon for "Report data error". The title of the document is "HCV variant with high productivity of infectious hepatitis c virus, and use thereof". Below this, there is a "Page bookmark" section with a link to the document, an "Inventor(s)" section listing KITAMURA YOSHIHIRO; SHIMIZU YOKO; AOKI CHIE; YU LUJUAN; WAKITA TAKAJI ±, and an "Applicant(s)" section listing UNIV TOKYO; UNIV SCHOOL NIHON JURIDIC PER; CHINESE ACAD INST MICROBIOLOGY; TORAY INDUSTRIES; NAT INST INFECTIOUS DISEASES; TOKYO METROPOLITAN INST MEDICAL SCIENCE ±.

The paging function provides links to the previous and next document in a result list

Viewing a document in other patent registers

For EP publications and documents from a number of other national offices, a direct link to the European Patent Register or to the relevant national patent register is provided in the toolbar. This allows you to directly consult up-to-date legal status information for the application concerned.

→ Click on the link in the toolbar to view the document in the relevant patent register.

The screenshot shows a patent document page for ITMI20131791 (A1). At the top, there is a navigation bar with tabs for Bibliographic data, IT Register, and Report data error. Below this is a breadcrumb trail: Bibliographic data: ITMI20131791 (A1) — 2015-04-29. The main content area is titled "Bibliographic data: ITMI20131791 (A1) — 2015-04-29". It includes a star icon for "In my patents list", a link to "IT Register", and a printer icon for "Report data error".

Link to a patent document in a national patent register, in this case Italy

✓ The data on this patent document is displayed in the selected register.

MINISTERO DELLO SVILUPPO ECONOMICO

**DIREZIONE GENERALE LOTTA ALLA CONTRAFFAZIONE
UFFICIO ITALIANO BREVETTI E MARCHI**

Sei in: [dati](#) / [Espacenet](#) [ricerche: [Codice](#) [Data](#) [Provincia](#) [Testo](#) [Titolare](#) [Classe](#) [Ricerca avanzata](#)]

Visualizza Scheda (Domanda: 102013902202566 (MI2013A001791) - Tipologia: Invenzioni)

Nell'area sottostante è visibile la scheda della domanda presa in esame.
N.B. Non tutte le schede riportano la medesima struttura poiché essa è strettamente correlata alla tipologia trattata.

Dati aggiornati al 23 luglio 2015

[Stampa la domanda](#)

Data Deposito 26 ottobre 2013	N. Brevetto -	Data Brevetto -
Stato Domanda non assegnata	Anticipata accessibilità no	Data di Pubblicazione 29 aprile 2015
Titolo dispositivo per il riconoscimento di un portafiltro di macchine per caffè espresso.		
Richiedente GRUPPO CIMBALI S.P.A. BINASCO (MI) 		Inventori ERBA ROBERTO
Domicilio elettivo PERANI & PARTNERS S.P.A.		Indirizzo P.ZZA S. BABILA 5 - 20122 MILANO (MI)
Centro raccolta culture microrganismi -		

Example of patent application data on the website of the Italian Patent Office

Viewing a patent document in Global Dossier

Global Dossier gives you access to the "file inspection" or "file wrapper" content published by the

- IP5 offices (the EPO, the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO) and the United States Patent and Trademark Office (USPTO))
- Canadian Intellectual Property Office (CIPO)
- World Intellectual Property Organization (WIPO)

If the patent document you are viewing is published by one of these patent offices, the **Global Dossier** link with the red icon appears next to the patent application number in the **Bibliographic data** and **INPADOC patent family** panels.

- Click on the **Global Dossier** link.

Bibliographic data: JP 2011 254151 (A) — 2011-12-15

★ In my patents list Previous 1 / 55 ▶ Next  Report data error  Print

MOVING IMAGE REPRODUCTION DEVICE, MOVING IMAGE REPRODUCTION METHOD, AND PROGRAM

Page bookmark [JP2011254151 \(A\) - MOVING IMAGE REPRODUCTION DEVICE, MOVING IMAGE REPRODUCTION METHOD, AND PROGRAM](#)

Inventor(s): TOMIDOKORO YOSHINORI ±






Applicant(s): CASIO COMPUTER CO LTD ±

Classification: - international: A63B69/36; H04N5/225; H04N5/91; H04N5/93; H04N101/00

- cooperative: A63B 24/0006; H04N5/23267; H04N5/772; H04N5/907

Application number: JP20100124994 20100531  Global Dossier

Priority number(s): JP20100124994 20100531

Also published as:  JP5375744 (B2)  US2011293239 (A1)  US9264651 (B2)  CN102263923 (A)  CN102263923 (B)

Link to a patent document in Global Dossier

✓ The EPO Global Dossier opens in a new browser window (or tab).

The partner office and the assigned application number appear at the top.

→ To display the original document in the original language, click on a description marked **(ORIGINAL)**.

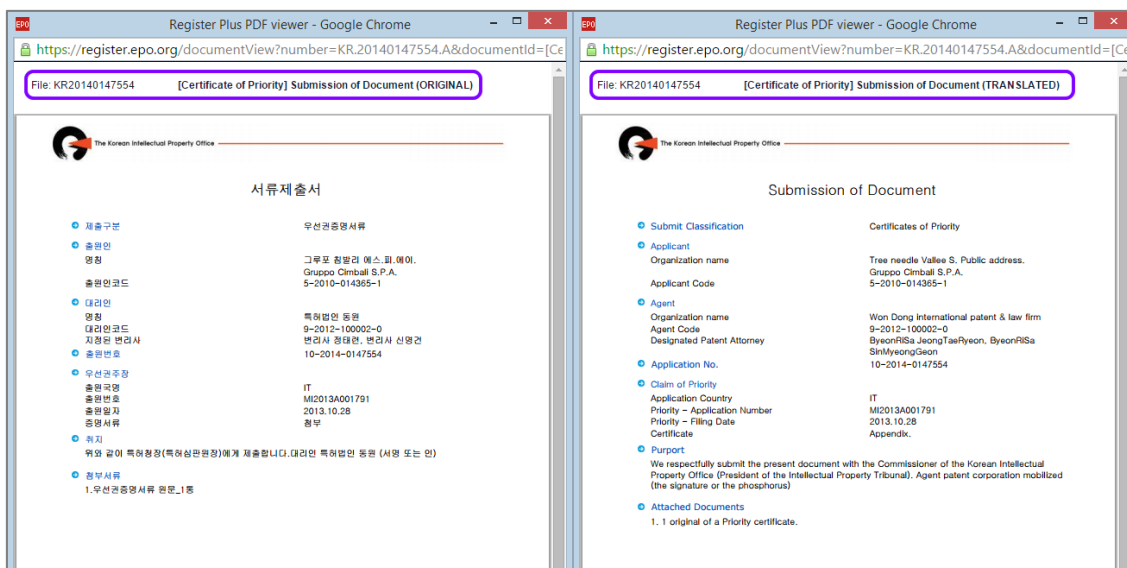
→ To display the (machine-)translation into English, click on a description marked **(TRANSLATED)**.

EPO Global Dossier		
Date	Description	Pages
24.11.2014	[Certificate of Priority] Submission of Document (TRANSLATED)	-
24.11.2014	[Certificate of Priority] Submission of Document (ORIGINAL)	-
28.10.2014	[Patent Application] Patent Application (ORIGINAL)	-
28.10.2014	[Patent Application] Patent Application (TRANSLATED)	-

Documents in the KIPO file wrapper in Global Dossier

✓ The document opens in the PDF viewer.

You can have both the (ORIGINAL) and (TRANSLATED) windows open simultaneously.



Viewing the original document in Korean and the translation in English

Translating text with Patent Translate

The **Patent Translate** feature provides machine translations of abstracts, claims and descriptions from English to other languages and vice versa.

Patent Translate is a machine translation service specifically "trained" to handle elaborate patent vocabulary and grammar. It takes a statistical approach, comparing the source document sentence by sentence with millions of patent documents previously translated by human translators.


Patent Translate offers on-the-fly-translation of patent documents for 28 official languages of the EPO's 38 member states, plus Chinese, Japanese, Korean and Russian.

i Please note that the engine cannot provide legally binding translations. The machine translation should give you the gist of any patent or patent-related document and help you to determine whether it is relevant.

If you want to read the text of abstracts, descriptions and claims in another language, you can either follow the links to the original documents of the patent family members or use the **Patent Translate** feature.

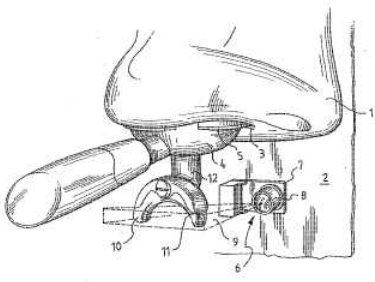
- To have the abstract translated, select the target language from the drop-down list.
- Click on the red **patenttranslate** button.
 - ✓ Patent Translate opens in a new browser window (or tab).

Abstract of EP2865302 (A1)

Translate this text into  powered by EPO and Google


Albanian
 Bulgarian
 Chinese
 Croatian
 Czech
 Danish
 Dutch
 Estonian
 Finnish
 French
 German
 Greek
 Hungarian
 Icelandic
Italian
 Japanese
 Korean
 Latvian
 Lithuanian
 Macedonian

filter holder (4, 13) of an espresso coffee machine, (18) on which the filter holder to be identified is the thermopile radiation sensor (6, 6a) having sensitive elements, an optical apparatus (8, 8a) that sensitive elements and circuit means, which receive by said sensitive elements and process a Said radiation sensor (6, 6a) is placed, relative to filter holder to be identified, such that at least one when it is placed on the support, falls within the field pparatus (8, 8a) of said sensor, such that said a signal representative of the radiations of the filter id optical apparatus of the sensor. According to tion that is identified by the radiation sensor is a portion of the filter holder.



Selecting the target language for Patent Translate

- To compare the translated text with the English original, move your mouse cursor over a text paragraph.
- To have the text translated into another language, click on the target language in the list on the left.
- To print the contents of the screen or to download the translation/the original and translation as a PDF file, click on the relevant link on the top right.



Europäisches Patentamt
European Patent Office
Office européen des brevets

Patent Translate

Powered by EPO and Google

French
German
Albanian
Bulgarian
Croatian
Czech
Danish
Dutch
Estonian
Finnish
Greek
Hungarian
Icelandic
Italian
Latvian
Lithuanian
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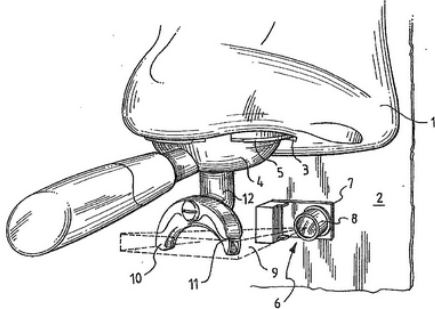
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RIASSUNTO US2015114234

Un dispositivo per l'identificazione di un portafiltro (4, 13) di una macchina per caffè espresso, comprendente un supporto (3, 17, 18) su cui il supporto del filtro deve essere identificato è amovibilmente inserito, almeno un sensore di radiazione termopila (6, 6a) avente una pluralità di calore elementi sensibili alle radiazioni, un apparato ottico (8, 8a) che si concentra radiazioni su detti elementi sensibili e mezzi circuitali, che ricevono segnali elettrici trasmessi da detti elementi sensibili ed elaborano un segnale di uscita corrispondente.

Detto sensore di radiazione deve essere identificato sulla supporto, rientra in modo tale che detti della porzione portafiltro. Secondo l'invenzione, erogazione porzione b

A device for identification of a filter holder (4, 13) of an espresso coffee machine, comprising a support (3, 17, 18) on which the filter holder to be identified is removably placed, at least one thermopile radiation sensor (6, 6a) having a plurality of heat radiation-sensitive elements, an optical apparatus (8, 8a) that focuses radiations on said sensitive elements and circuit means, which receive electric signals transmitted by said sensitive elements and process a corresponding output signal.



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Un dispositivo per l'identificazione di un portafiltro (4, 13) di una macchina per caffè espresso, comprendente un supporto (3, 17, 18) su cui il supporto del filtro deve essere identificato è amovibilmente inserito, almeno un sensore di calore elementi sensibili alle radiazioni infrarosse e mezzi circuituali sensibili ed elaborare un segnale di corrispondenza di uscita.

A device for identification of a filter holder (4, 13) of an espresso coffee machine, comprising a support (3, 17, 18) on which the filter holder to be identified is removably placed, at least one thermopile radiation sensor (6, 6a) having a plurality of heat radiation-sensitive elements, an optical apparatus (8, 8a) that focuses radiations on said sensitive elements and circuit means, which receive electric signals transmitted by said sensitive elements and process a corresponding output signal.

Detto sensore di radiazione (6, 6a) è in grado di determinare un'approppriazione delle radiazioni della porzione portafiltro rilevata dal segnale di detto apparato ottico del sensore.

Secondo l'invenzione, la porzione portafiltro che è identificato dal sensore radiazione è una bevanda erogazione porzione beccuccio del portafiltro.

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Abstract

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Application number: IT2013MI01791 20131028
Priority number(s): IT2013MI01791 20131028
Also published as: EP2865302 (A1) US2015114234 (A1) → KR20150048659 (A) CN204192374 (U) CN104545470 (A)
Abstract not available for ITMI20131791 (A1) Abstract of corresponding document: EP2865302 (A1)
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<p>A device for identification of a filter holder (4, 13) of an espresso coffee machine, comprising a support (3, 17, 18) on which the filter holder to be identified is removably placed, at least one thermopile radiation sensor (6, 6a) having a plurality of heat radiation-sensitive elements, an optical apparatus (8, 8a) that focuses radiations on said sensitive elements and circuit means, which receive electric signals transmitted by said sensitive elements and process a corresponding output signal. Said radiation sensor (6, 6a) is placed, relative to the support (3, 17, 18) for the filter holder to be identified, such that at least one portion thereof (10, 11, 15), when it is placed on the support, falls within the field of view (9, 9a) of the optical apparatus (8, 8a) of said sensor, such that said circuit means can determine a signal representative of the radiations of the filter holder portion detected by said optical apparatus of the sensor. According to the invention, the filter holder portion that is identified by the radiation sensor is a beverage dispensing spout portion of the filter holder.</p>


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Application number: WO2001EP14117 20011203
Priority number(s): DE2000163672 20001220
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The description contains the following components:

- an indication of the technical field to which the invention relates
- a summary of the background prior art useful in order to understand the invention
- a disclosure of the invention as claimed, describing the technical problem and its solution and stating the advantageous effects of the invention with regard to the background art
- a brief description of the figures in any drawings, indicating their numbers
- a detailed account of at least one way of carrying out the claimed invention
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EP1346096 (B1)

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Description: EP1346096 (B1) — 2009-05-06

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DEVICE FOR PRESSING SHIRTS USING A SUBDIVIDED INFLATABLE BODY

Description not available for EP1346096 (B1)
Description of corresponding document: WO0250362 (A1)

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DE10063672 (A1) ES2325677 (T3) US2004069818 (A1) WO0250362 (A1)

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Vorrichtung zum Glätten von Hemden mit einem unterteilten Blähkörper Die Erfindung betrifft eine Vorrichtung zum Glätten von Kleidungsstücken, insbesondere Hemden, nach dem Oberbegriff des Patentanspruches 1.

Durch den Blähkörper wird das zu glättende Kleidungsstück beziehungsweise Hemd von innen gespannt, wodurch die Knitter entfernt werden. Um das Glättergebnis zu verbessern, wird das Hemd in aller Regel wie beim herkömmlichen Dampfbügeln unter Einwirkung von Feuchtigkeit und Wärme geglättet. Dazu wird das Hemd im feuchten Zustand auf den Blähkörper aufgebracht, gegebenenfalls an Kragen und Knopfleiste fixiert und der Blähkörper mit erhitzter Luft aufgebläht, so dass das Hemd unter Spannung getrocknet wird. Wird die Hülle des Blähkörpers luftdurchlässig ausgestaltet, so kann die erhitzte Luft auch das Hemd durchströmen und so den Trocknungsvorgang beschleunigen.

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EP1346096 (B1)

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DEVICE FOR PRESSING SHIRTS USING A SUBDIVIDED INFLATABLE BODY

Page 2/9 Description Maximise Download

Seite: 1 von 1 Automatischer Zoom

1 EP 1 346 096 B1 2

Beschreibung

[0001] Die Erfindung betrifft eine Vorrichtung zum Glätten von Kleidungsstücken, insbesondere Hemden, nach dem Oberbegriff des Patentanspruches 1.

[0002] Durch den Blähkörper wird das zu glättende Kleidungsstück beziehungsweise Hemd von innen gespannt, wodurch die Knitter entfernt werden. Um das Glättergebnis zu verbessern, wird das Hemd in aller Regel wie beim herkömmlichen Dampfbügeln unter Einwirkung von Feuchtigkeit und Wärme geglättet. Dazu wird das Hemd im feuchten Zustand auf den Blähkörper aufgebracht, gegebenenfalls an Kragen und Knopfleiste fixiert und der Blähkörper mit erhitzter Luft aufgebläht, so dass das Hemd unter Spannung getrocknet wird. Wird die Hülle des Blähkörpers luftdurchlässig ausgestaltet, so kann die erhitzte Luft auch das Hemd durchströmen und so den Trocknungsvorgang beschleunigen.

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[0009] Ein innerhalb des Blähkörpers angeordnetes Gestell kann insbesondere die Hüllen der Hohlräume bzw. die Kammern abstützen, in denen ein höherer Druck herrscht als in den übrigen. Die äußere Form des Blähkörpers kann damit stärker beeinflusst werden, da die abgestützten Kammern eine höhere Kraft nach außen ausüben können. Dies ist bei einem hemdförmigen Blähkörper besonders an den Seiten des Rumpfes vorteilhaft, da der Rumpfabschnitt auf diese Weise durch den nach außen gerichteten seitlichen Druck in eine flache Form

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EP2865302 (A1)

Description: EP2865302 (A1) — 2015-04-29

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Device for identification of a filter holder of an espresso coffee machine

Description of EP2865302 (A1)

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[0001] The present invention relates to a device for identification of a filter holder of an espresso coffee machine, comprising a support on which the filter holder to be identified is removably placed, said filter holder being provided with at least one beverage dispensing spout, at least one radiation sensor having at least one heat radiation-sensitive element, which is able to generate an electric signal representative of the heat radiation that has been sensed, an optical apparatus that focuses radiations on said at least one sensitive element and circuit means connected to said at least one heat radiation-sensitive element to receive the electric signals generated by said at least one sensitive element and process a corresponding output signal.

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Device for identification of a filter holder of an espresso coffee machine

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Titolo: "Dispositivo per il riconoscimento di un portafiltro di macchine per caffè espresso"

DESCRIZIONE:

La presente invenzione si riferisce ad un dispositivo per il riconoscimento di un portafiltro di macchine per caffè espresso comprendente un supporto sul quale viene posizionato in modo rimovibile il portafiltro da riconoscere, almeno un sensore di radiazioni, provvisto di almeno un elemento sensibile alle radiazioni termiche, di un apparato ottico focalizzante le radiazioni su detto almeno un elemento sensibile e di mezzi circuitali che ricevono segnali elettrici trasmessi da detto almeno uno elemento sensibile ed elaborano un corrispondente segnale di uscita.

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The three main claim types are:

- **process claim** – claim relating to a new process.
- **product claim** – claim relating to a specific new product.
- **product-by-process claim** – claim relating to a specific new product which is defined in terms of the way it is produced.

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Claims: EP1346096 (B1) — 2009-05-06

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DEVICE FOR PRESSING SHIRTS USING A SUBDIVIDED INFLATABLE BODY

Claims not available for EP1346096 (B1)
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Original claims **Claims tree**

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Patentansprüche 1. Vorrichtung zum Glätten von Kleidungsstücken, insbesondere Hemden, mit einem Blähkörper (18) und Einrichtungen (9) zum Aufblähen des Blähkörpers (18) mit Luft, wobei der Blähkörper (18) innen durch Trennwände in mehrere Hohlräume (1,3,7) unterteilt ist, dadurch gekennzeichnet, dass wenigstens ein indirekt aufgeblähter Hohlraum (3,7) des Blähkörpers (18) von wenigstens einem angrenzenden Hohlraum (1) durch eine Trennwand (2, 5) getrennt ist, durch die Luft gegen einen Strömungswiderstand hindurchtreten kann, und der indirekt aufgeblähter Hohlraum (3,7) ausschliesslich durch diese Trennwand (2,5) hindurch mit Luft aufgebläht wird.

2. Vorrichtung nach Anspruch 1, dadurch gekennzeichnet, dass die Hülle (4) des indirekt aufgeblähten (3,7) Hohlräume luftdurchlässig ist.

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Device for identification of a filter holder of an espresso coffee machine

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Seiten: 1 von 1 Automatischer Zoom

CN 104545470 A 权利要求书 1/1 页

1. 一种用于识别浓缩咖啡机的过滤器保持器 (4, 13) 的装置, 所述装置包括: 支承件 (3, 17, 18), 待识别的所述过滤器保持器可移除地放置在所述支承件 (3, 17, 18) 上, 所述过滤器保持器设置有至少一个饮料输送喷嘴 (10, 11); 至少一个辐射传感器 (6, 6a), 所述至少一个辐射传感器 (6, 6a) 具有至少一个热辐射敏感元件 (108), 所述至少一个辐射传感器 (6, 6a) 适用于产生表示由所述敏感元件检测的热辐射的电信号; 光学仪器 (8, 8a), 所述光学仪器 (8, 8a) 将辐射聚焦在所述至少一个敏感元件上; 以及电路装置 (106), 所述电路装置 (106) 连接至所述至少一个热辐射敏感元件, 用于接收由所述至少一个敏感元件产生的电信号并且处理相应的输出信号, 其特征在于, 所述辐射传感器 (6, 6a) 相对于用于待识别的所述过滤器保持器的所述支承件 (3, 17, 18) 被放置成使得当待识别的所述过滤器保持器放置在所述支承件上时, 所述饮料输送喷嘴 (10, 11, 15) 的至少一部分落入所述传感器的所述光学仪器 (8, 8a) 的视野 (9, 9a) 内, 使得所述电路装置 (106) 能够确定表示由所述传感器的所述光学仪器检测到的由所述喷嘴部分发射的所述热辐射的信号。

Viewing the claims as original facsimile document in the language used for filing

Alternatively, you can use the **Patent Translate** feature.

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Viewing claim interdependencies in the claims tree

Independent claims contain the main features of the invention. Most independent claims consist of two parts: the prior art portion and the characterising portion. Any independent claim can be followed by one or more dependent claims relating to particular aspects of the invention.

- Click on the **Claims tree** tab to view a tree representation of the independent claims and their dependent claims.
- Click on the + (plus) sign next to the claim number to expand the claims view and see how the dependent claims are hierarchically related.
- Click on the - (minus) sign to collapse the claims view.

Original claims	Claims tree
<p>The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.</p>	
<p>1. A device for identification of a filter holder (4, 13) of an espresso coffee machine, comprising a support (3, 17, 18) on which the filter holder to be identified is removably placed, said filter holder being provided with at least one beverage dispensing spout (10, 11), at least one radiation sensor (6, 6a) having at least one heat radiation-sensitive element (108), which is adapted to generate an electric signal representative of the heat radiation that has been sensed, an optical apparatus (8, 8a) that focuses radiations on said at least one sensitive element and circuit means (106) connected to said at least one heat radiation-sensitive element to receive the electric signals generated by said at least one sensitive element and process a corresponding output signal, characterized in that said radiation sensor (6, 6a) is placed, relative to the support (3, 17, 18) for the filter holder to be identified, such that when the latter is placed on the support, at least one portion of said beverage dispensing spout falls within the field of view (9, 9a) of the optical apparatus (8, 8a) of said sensor, such that said circuit means can determine a signal representative of the radiations emitted from the spout portion detected by said optical apparatus of the sensor.</p> <p>2. A device according to claim 1, characterized in that said filter holder is a double-dose filter holder and comprises two beverage dispensing spouts (10, 11).</p> <p>3. A device according to claim 1, characterized in that said filter holder is a single-dose filter holder and comprises one beverage dispensing spout (15).</p> <p>4. A device according to any of claims 1 to 3, characterized in that it comprises two radiation sensors (6, 6a), each sensor being placed, relative to the support (3, 17, 18) for the filter holder to be identified, such that when the latter is placed on the support, respective portions (10, 11, 15) of at least one beverage dispensing spout fall within the field of view (9, 9a) of the optical apparatus (8, 8a) of a respective sensor of said two sensors.</p> <p>5. A device according to claim 1, characterized in that said radiation sensor (6, 6a) comprises a plurality of heat radiation-sensitive elements (108).</p> <p>6. A device as claimed in any of claims 1 to 6, characterized in that said support (17, 18) for the filter holder to be identified is placed at the ground coffee dispensing outlet (20) of a coffee grinding and dosing apparatus.</p> <p>8. A device as claimed in any of claims 1 to 6, characterized in that said support (3) for the filter holder to be recognized is placed at a dispenser (1) of an espresso coffee machine for beverage preparation.</p>	<pre> graph TD 1((1)) --- 2((2)) 1 --- 3((3)) 1 --- 4((4)) 1 --- 5((5)) 1 --- 7((7)) 1 --- 8((8)) 5 --- 6((6)) </pre>

Expanding the claims tree

The claims tree diagram is a graphical representation of the hierarchical structure of the claims.

→ Click on a claim number to display the corresponding text.

- ✓ The claim's text is both displayed below the diagram and highlighted in brown within the numbered text sequence.
- ✓ In the diagram, the claim is highlighted in brown and its parent claim is highlighted in red.

Original claims	Claims tree
<p>The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.</p>	
<p>1. A device for identification of a filter holder (4, 13) of an espresso coffee machine, comprising a support (3, 17, 18) on which the filter holder to be identified is removably placed, said filter holder being provided with at least one beverage dispensing spout (10, 11), at least one radiation sensor (6, 6a) having at least one heat radiation-sensitive element (108), which is adapted to generate an electric signal representative of the heat radiation that has been sensed, an optical apparatus (8, 8a) that focuses radiations on said at least one sensitive element and circuit means (106) connected to said at least one heat radiation-sensitive element to receive the electric signals generated by said at least one sensitive element and process a corresponding output signal, characterized in that said radiation sensor (6, 6a) is placed, relative to the support (3, 17, 18) for the filter holder to be identified, such that when the latter is placed on the support, at least one portion of said beverage dispensing spout falls within the field of view (9, 9a) of the optical apparatus (8, 8a) of said sensor, such that said circuit means can determine a signal representative of the radiations emitted from the spout portion detected by said optical apparatus of the sensor.</p> <p>2. A device according to claim 1, characterized in that said filter holder is a double-dose filter holder and comprises two beverage dispensing spouts (10, 11).</p> <p>3. A device according to claim 1, characterized in that said filter holder is a single-dose filter holder and comprises one beverage dispensing spout (15).</p> <p>4. A device according to any of claims 1 to 3, characterized in that it comprises two radiation sensors (6, 6a), each sensor being placed, relative to the support (3, 17, 18) for the filter holder to be identified, such that when the latter is placed on the support, respective portions (10, 11, 15) of at least one beverage dispensing spout fall within the field of view (9, 9a) of the optical apparatus (8, 8a) of a respective sensor of said two sensors.</p> <p>5. A device according to claim 1, characterized in that said radiation sensor (6, 6a) comprises a plurality of heat radiation-sensitive elements (108).</p> <p>6. A device according to claim 5, characterized in that said heat radiation-sensitive elements (108) are of the thermopile type.</p> <p>7. A device as claimed in any of claims 1 to 6, characterized in that said support (17, 18) for the filter holder to be identified is placed at the ground coffee dispensing outlet (20) of a coffee grinding and dosing apparatus.</p> <p>8. A device as claimed in any of claims 1 to 6, characterized in that said support (3) for the filter holder to be recognized is placed at a dispenser (1) of an espresso coffee machine for beverage preparation.</p>	
<pre> graph TD 1((1)) --- 2((2)) 1 --- 3((3)) 1 --- 4((4)) 1 --- 5((5)) 1 --- 7((7)) 1 --- 8((8)) 5 --- 6((6)) style 5 stroke:#f00,stroke-width:2px style 6 stroke:#f00,stroke-width:2px </pre>	
<p>6. A device according to claim 5, characterized in that said heat radiation-sensitive elements (108) are of the thermopile type.</p>	

Clicking a claim number in the diagram highlights and displays the corresponding text

i In exceptional cases the viewer may not be able to display the claims tree correctly. This can happen when an excessive number of claims is involved or claim dependencies are not drafted in the conventional way.

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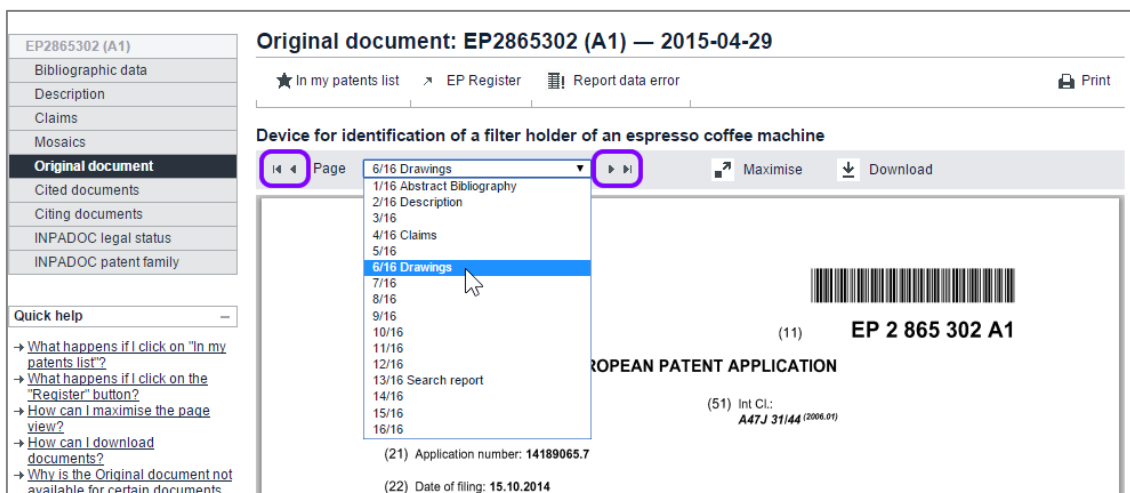
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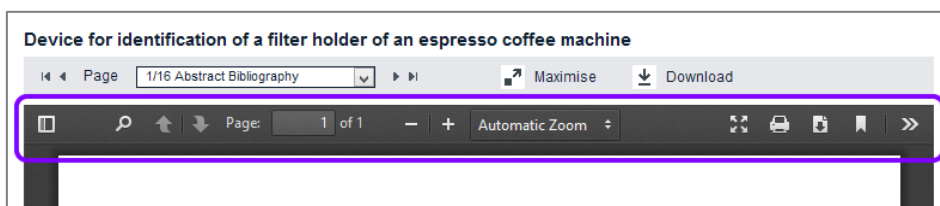
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EP 2 865 302 A1



EUROPEAN SEARCH REPORT

Application Number
EP 14 18 9065

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	WO 2010/130611 A1 (LEVI MARIO [FR]; LEVI JEAN-PIERRE [FR]) 18 November 2010 (2010-11-18) * page 5, lines 6-11 * * page 5, line 26 - page 6, line 2 * * page 6, lines 14-24 * * claims 8, 11, 12; figure 2 *	1,2,7,8	INV. A47331/44
A,D	US 2013/144563 A1 (WUHMANN STEFAN [DE] ET AL) 6 June 2013 (2013-06-06) * paragraphs [0002], [0005], [0010], [0063], [0117]; claim 1; figures 1, 2a, 2b *	5,6	
A,D	EP 0 280 594 A1 (LEVI JEAN PIERRE [FR]; LEVI MARIO [FR]) 31 August 1988 (1988-08-31) * column 3, line 43 - column 4, line 45 * * column 5, lines 8-17 * * claims 1-4 *	1,7,8	

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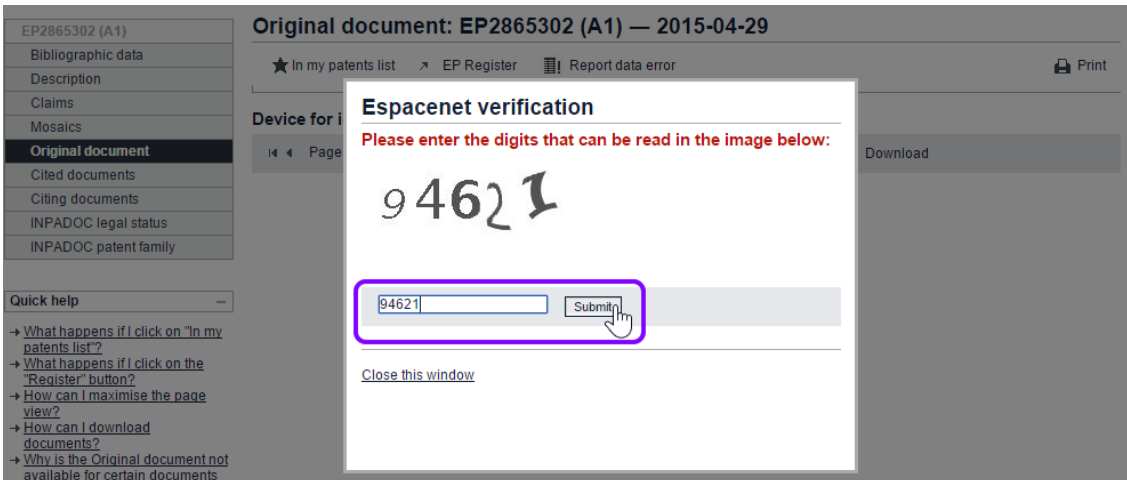
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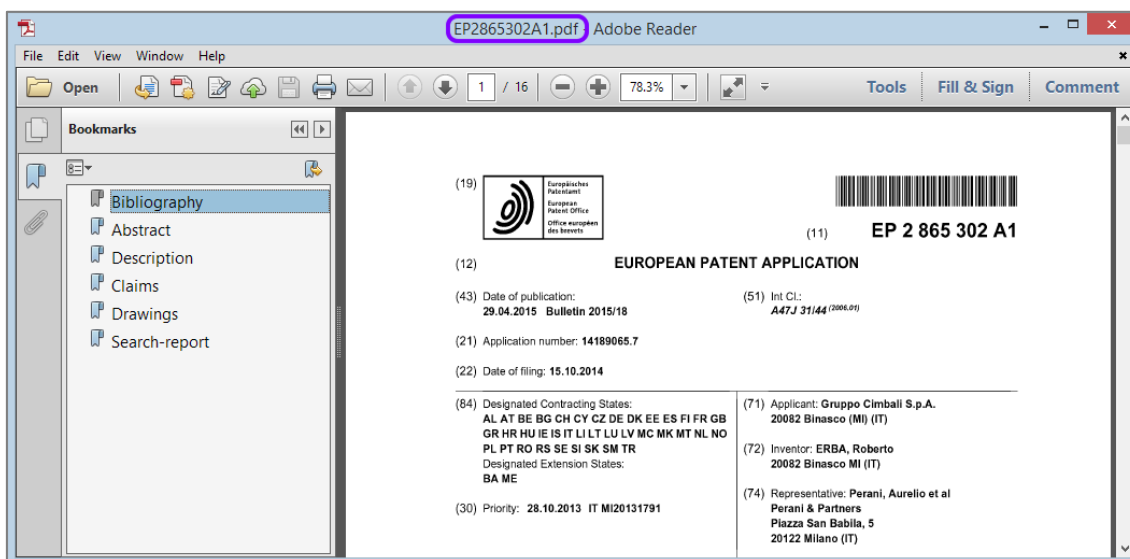
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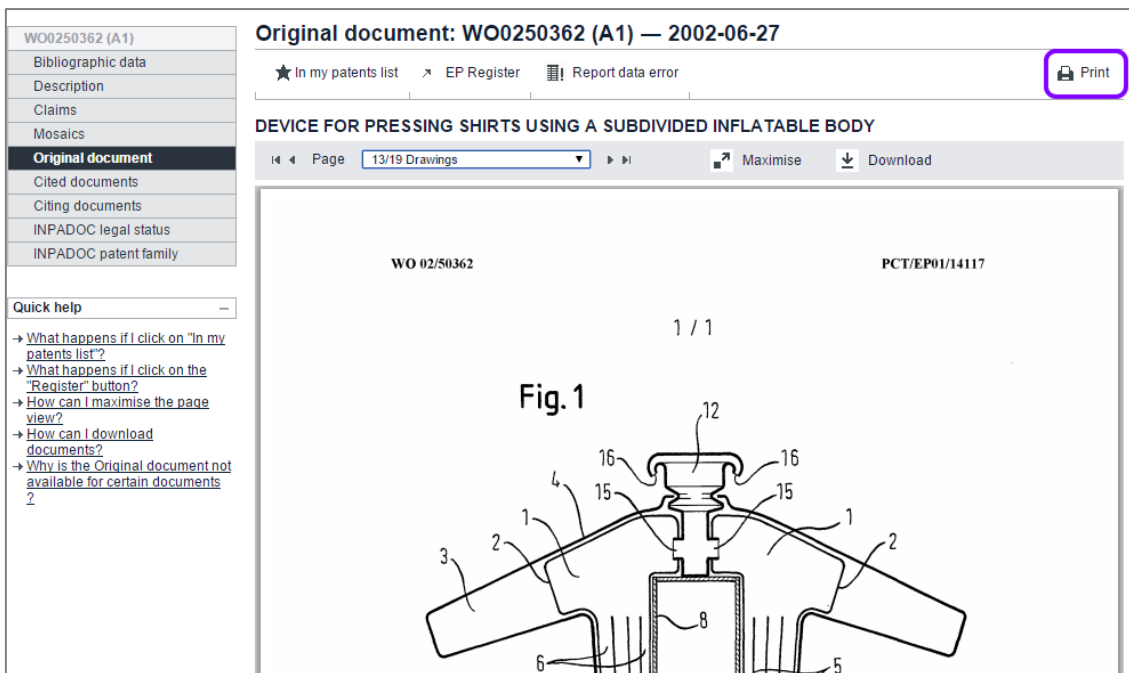
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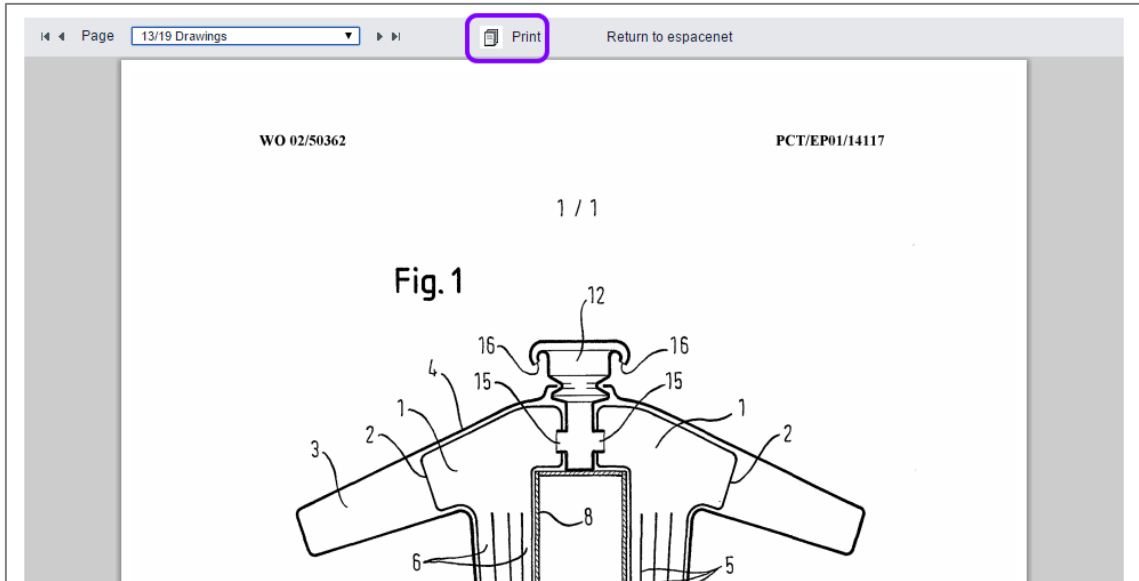
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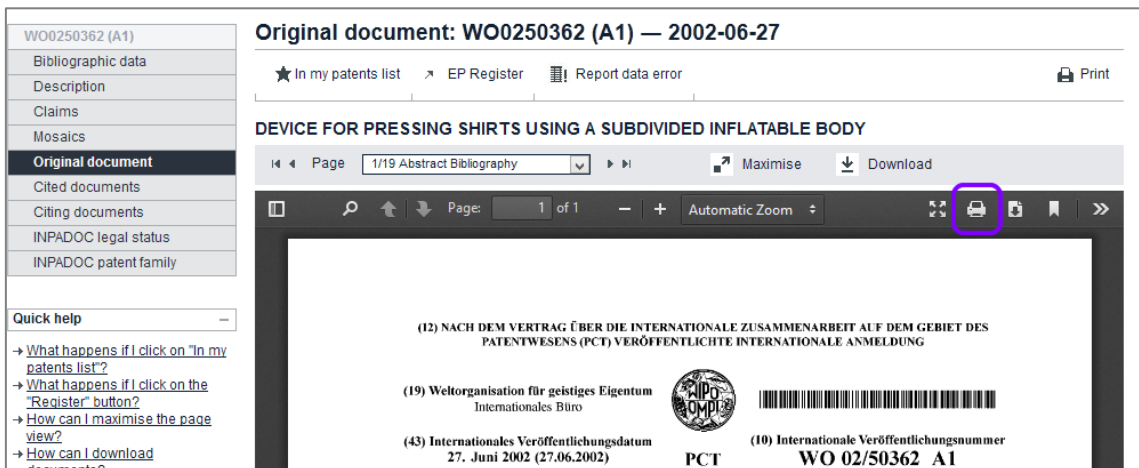


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Patents cited in the search report

1. FILTER HOLDER

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
★ LEVI MARIO [FR] LEVI JEAN-PIERRE [FR]	LEVI MARIO [FR] LEVI JEAN-PIERRE [FR]	A47J31/0683 A47J31/4492 A47J31/52	A47J31/06 A47J31/52	WO2010130611 (A1) 2010-11-18	2009-05-15

2. Radiation Sensor

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
★ NAUMANN STEFAN [DE] PLOTZ FRED [DE] (+3)	NAUMANN STEFAN [DE] PLOTZ FRED [DE] (+4)	G01J1/04 G01J5/0022 G01J5/0025 (+9)	G01J1/04 G01J5/08	US2013144563 (A1) 2013-06-06	2010-04-01

3. Detecting and signalling device for an automatic espresso coffee machine.

Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
★ LEVI JEAN-PIERRE	LEVI JEAN PIERRE [FR] LEVI MARIO [FR]	A47J31/0657 A47J31/402 A47J31/4464 (+2)	A47J31/06 A47J31/24 A47J31/36 (+8)	EP0280594 (A1) 1988-08-31 EP0280594 (B1) 1989-12-06	1987-02-11

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WO2015099617 (A1)

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1. **INTESTINE COLONIZING LACTOBACILLI**

★ Publication info: EP0554418 (A1) 1993-08-11

2. **A COMPOSITION FOR USE IN THE THERAPY OF LACTOSE INTOLERANCE OR CONDITIONS ARISING FROM LACTASE DEFICIENCY**

★ Publication info: WO2011095339 (A1) 2011-08-11

Literature cited in the search report

3. **ALTERATION OF INTESTINAL MICROFLORA IS ASSOCIATED WITH REDUCTION IN ABDOMINAL BLOATING AND PAIN IN PATIENTS WITH IRRITABLE BOWEL SYNDROME**

★ Publication info: XP009042093

4. **Isolation and characterization of Lactobacillus salivarius MTC 1026 as a potential probiotic**

★ Publication info: XP055183276

Patents cited by the applicant

5. **INTESTINE COLONIZING LACTOBACILLI**

★ Publication info: EP0554418 (A1) 1993-08-11

6. **PROBIOTIC COMPOSITION FOR USE IN THE TREATMENT OF BOWEL INFLAMMATION**

★ Publication info: WO2011092261 (A1) 2011-08-04

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EP2277524 (A1)

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1. **Verwendung eines Mittels zur Stimulation der Gen-Expression antimikrobieller Peptide (AMP)**

★ Inventor: KLENK ADOLF DR [DE] ABELS PROF CHRISTOPH [DE] (+2)	Applicant: KURT WOLFF GMBH & CO KG DR [DE]	CPC: A61K2300/00 (+29)	IPC: A61K31/045 A61K31/164 A61K31/355 (+10)	Publication info: DE102012002592 (A1) 2013-08-14	Priority date: 2012-02-13
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2. **USE OF AN AGENT FOR STIMULATING THE GENE EXPRESSION OF ANTIMICROBIAL PEPTIDES (AMP)**

★ Inventor: KLENK ADOLF [DE] ABELS CHRISTOPH [DE] (+2)	Applicant: KURT WOLFF GMBH & CO KG DR [DE]	CPC: A61K2300/00 (+29)	IPC: A61K8/27	Publication info: WO2013120481 (A2) 2013-08-22 WO2013120481 (A3) 2014-09-18	Priority date: 2012-02-13
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3. **PHARMACEUTICAL COMPOSITIONS CONTAINING PEDIOCOCCUS AND METHODS FOR REDUCING THE SYMPTOMS OF GASTROENTEROLOGICAL SYNDROMES**

★ Inventor: OLMSTEAD STEPHEN F [US]	Applicant: PROTHERA INC [US] OLMSTEAD STEPHEN F [US]	CPC: A23L1/3014 A23L1/308 A23V2002/00 (+9)	IPC: A23L1/30 A61K35/66 A61K9/00 (+2)	Publication info: WO2012170915 (A1) 2012-12-13	Priority date: 2011-06-10
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Claims	Sort by <input type="button" value="Priority date"/> Sort order <input type="button" value="Descending"/> <input type="button" value="Sort"/>					
Mosaics	<input type="checkbox"/> 1. NEW STRAINS OF THE GENUS LACTOBACILLUS AND USE THEREOF					
Original document	★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
Cited documents	SEME HELENA [SI]	MEDIS D O O [SI]	A23L 1/0345	A23L 1/03	WO2015099617 (A1)	2013-12-23
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INPADOC legal status	(+6)		C12R 1/25			
INPADOC patent family	<input type="checkbox"/> 2. Treatment of IBS using both probiotic bacteria and fermented cereal as treatment effectors					
Quick help	★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
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	★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	ISRAELSEN HANS	ISRAELSEN HANS [DK]	A23L 1/172	A61K 35/74	WO2007036230 (A1)	2005-09-28
	[DK]		A23L 1/3014		2007-04-05	
			A23V 2002/00			
			(+16)			

Documents citing a non-patent literature publication

INPADOC legal status

The legal status of a patent or patent application refers to the entries made or procedural steps taken during the patent-granting process and the term of the patent. Espacenet retrieves the legal status data from the EPO's INPADOC database, giving you a good indication of whether a patent is in force, has been abandoned, has expired or has changed ownership.

i The EPO accepts no responsibility for the accuracy of data and information originating from authorities other than the EPO. In particular, it cannot guarantee that they are complete, up to date or fit for specific purposes.

→ To view the legal status information, click on **INPADOC legal status** in the navigation bar.

✓ The status events are listed in chronological order.

Status events for B documents are displayed together with the data of the corresponding A document.

EP1346096 (B1)	INPADOC legal status: EP1346096 (B1) — 2009-05-06	
Bibliographic data	★ In my patents list ✕ EP Register 🖨 Report data error 🖨 Print	
Description	DEVICE FOR PRESSING SHIRTS USING A SUBDIVIDED INFLATABLE BODY	
Claims	The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO; in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.	
Mosaics	Legal status of EP1346096 (A1) 2003-09-24; EP1346096 (B1) 2009-05-06:	
Original document	EP	F 01271471 A (Patent of invention)
Cited documents	Event date :	2003/09/24
Citing documents	Event code :	17P
INPADOC legal status	Code Expl.:	+ REQUEST FOR EXAMINATION FILED
INPADOC patent family	EFFECTIVE DATE :	20030721
Quick help	Event date :	2003/09/24
→ What happens if I click on "In my patents list"?	Event code :	AK
→ What happens if I click on the "Register" button?	Code Expl.:	+ DESIGNATED CONTRACTING STATES:
→ What does "legal status" mean?	KD OF CORRESP. PAT. :	A1
→ Why is the legal status not always available?	DESIGNATED COUNTR. :	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
→ How might this information be useful to me?		
→ How reliable is this data?		

First INPADOC legal status event of a patent application

→ Scroll down the page to see the most recent status event.

Event date :	2014/03/06
Event code :	REG ES FD2A
Code Expl.:	- ANNOUNCEMENT OF LAPSE IN SPAIN
EFFECTIVE DATE :	20140306
Event date :	2014/05/30
Event code :	PG25 ES
Code Expl.:	- LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
EFFECTIVE DATE :	20121204
FURTHER INFORMATION :	LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES

Most recent INPADOC legal status event

Legal status codes

A list of worldwide legal status codes is available on the EPO website under **Information on EPO data > Useful tables and statistics > Updated weekly.**

<http://www.epo.org/searching-for-patents/helpful-resources/data/tables/weekly.html>

- Look for the title **Legal status codes**.
- To view the list, click on the **download** link to the right.
- ✓ The list of status codes opens in your browser.

AR FA	-	ABANDONMENT OR WITHDRAWAL
AR FB	-	SUSPENSION OF GRANTING PROCEDURE
AR FC	-	REFUSAL
AR FD	-	APPLICATION DECLARED VOID OR LAPSED, E.G., DUE TO NON-PAYMENT OF FEE
AR FG	+	GRANT; REGISTRATION
AT AAW	-	REVOCATION OF PUBLISHED EXAMINED APPLICATION
AT AJI	+	ERRONEOUS WITHDRAWAL
AT AWE	-	CONCESSION OF RESTITUTION
AT AWR	-	REVOCATION
AT AZ	-	WITHDRAWN
AT A1	-	REVOCATION OF PUBLISHED EXAMINED APPLICATION
AT A1AW	-	REVOCATION OF PUBLISHED EXAMINED APPLICATION
AT A1B	-	CORRECTION
AT A1J	-	WITHDRAWAL PARAGRAPH 166 LIT. 6
AT A1V	-	REFUSAL
AT A1WE	+	CONCESSION OF RESTITUTION
AT A1WR	-	REVOCATION
AT A1Z	-	WITHDRAWN
AT BA	-	NOTIFICATION SUSPENDED
AT EB	-	CORRECTION OF GRANT
AT EBA	-	NOTIFICATION SUSPENDED (E-SERIES)
AT EDES	-	AT NOT NOMINATED AS A DESIGNATED STATE
AT EEB	-	CORRECTION OF GRANT
AT EECC	-	CORRECTIONS OF CLAIMS AS TO PAR. 4/2 APPEALED
AT EEFA	-	CHANGE OF THE COMPANY NAME
AT EEGN	-	DEEMED TO BE NOT GRANTED
AT EEIH	-	CHANGE IN THE PERSON OF PATENT OWNER
AT EEK	-	PROCLAMATION AS TO PARAGRAPH 128 PATENT LAW
AT EEK1	-	PROCLAMATION AS TO PARAGRAPH 128 PATENT LAW
AT EELA	-	CANCELLED DUE TO LAPSE OF TIME
AT EELB	-	CORRECTION OF A CANCELLATION

Example of legal status codes from the worldwide list

- To download the list, right-click on the **download** link to the right and select **Save target as** from the context menu.
- ✓ The list of status codes is downloaded as a text-only (*.txt) file.

Data coverage

Like all other patent databases, INPADOC has to rely on the correctness of the data supplied by the co-operating patent offices and the extent to which that data is up to date. In particular, delays in the delivery of bibliographic or legal status data can vary significantly depending on the country concerned and the time period covered.

You should therefore always check whether there are any gaps or delays in certain areas.

An overview of the database contents of Legal Status Service is available on the EPO website under **Information on EPO data > Useful tables and statistics > Updated weekly**.

<http://www.epo.org/searching-for-patents/helpful-resources/data/tables/weekly.html>

- Look for the title **Contents and coverage of the INPADOC legal status file**.
- To download the list, click on the **download** link to the right.
 - ✓ The list is downloaded as an Excel spreadsheet (*.xls) file.

Further information

To be absolutely sure about the actual status of a patent, refer to the relevant patent office or patent-granting authority direct.

If you have any questions, please contact Patent Data Services at patentdata@epo.org.

INPADOC patent family

An INPADOC patent family is defined as comprising all the documents sharing directly or indirectly (e.g. via a third document) at least one priority. This includes all the patent documents resulting from a patent application submitted as a first filing with a patent office and from the same patent application filed within the priority year with a patent office in any other country.

→ To view the list of family members, click on **INPADOC patent family** in the navigation bar.

Simple patent family members are automatically assigned the CPC symbol of the document classified first in CPC.

EP2865302 (A1) → Family

Family list: EP2865302 (A1) — 2015-04-29

Select all (0/6) Compact Export (CSV | XLS) Download covers **CCD** Print

6 application(s) for: EP2865302 (A1)

Sort by: Sort order: show citations

1. Device for identification of a filter holder of an espresso coffee machine						
★	Inventor: ERBA ROBERTO [IT]	Applicant: GRUPPO CIMBALI SPA [IT]	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC: A47J31/44	Publication info: EP2865302 (A1) 2015-04-29	Priority date: 2013-10-28
2. Device for identification of a filter holder of an espresso coffee machine						
★	Inventor:	Applicant:	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC: A47J31/06	Publication info: CN104545470 (A) 2015-04-29	Priority date: 2013-10-28
3. Device for identification of a filter holder of an espresso coffee machine						
★	Inventor:	Applicant:	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC: A47J31/06	Publication info: CN204192374 (U) 2015-03-11	Priority date: 2013-10-28
4. Device for identification of a filter holder of an espresso coffee machine						
★	Inventor: ERBA ROBERTO	Applicant: GRUPPO CIMBALI SPA	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC:	Publication info: ITM120131791 (A1) 2015-04-29	Priority date: 2013-10-28
5. DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE						
★	Inventor: ERBA ROBERTO [IT]	Applicant: GRUPPO CIMBALI SPA [IT]	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC: A47J31/06 A47J31/44	Publication info: KR20150048659 (A) 2015-05-07	Priority date: 2013-10-28
6. DEVICE FOR IDENTIFICATION OF A FILTER HOLDER OF AN ESPRESSO COFFEE MACHINE						
★	Inventor: ERBA ROBERTO [IT]	Applicant: GRUPPO CIMBALI SPA [IT]	CPC: A47J31/24 A47J31/446 A47J31/4492 (+2)	IPC: A47J31/24 A47J31/44 G01J5/08 (+1)	Publication info: US2015114234 (A1) 2015-04-30	Priority date: 2013-10-28

Quick help

- Can I export this list?
- What happens if I click on "Download covers"?
- Can I sort the list?
- What happens if I click on the star icon?
- What is a patent family?
- What happens if I tick the "show citations" box?
- What is an INPADOC patent family?
- Are all the documents in an INPADOC family equivalents?
- Why is the same document published several times in the same country?

INPADOC family members with the same CPC symbols

→ To view the priority document, click on the priority number in the **Bibliographic data** screen.

All the corresponding documents in the **Also published as** section share the same priority number.

Application number:	EP20140189065 20141015
Priority number(s):	IT2013MI01791 20131028
Also published as:	US2015114234 (A1) → KR20150048659 (A) ITMI20131791 (A1) CN204192374 (U) CN104545470 (A)

Priority number and family members in the Bibliographic data screen

Common Citation Document

The **Common Citation Document (CCD)** application provides single-point access to citation data for the patent applications of the IP5 (the EPO, the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO) and the United States Patent and Trademark Office (USPTO), the Canadian Patent Office and the World Intellectual Property Organization (WIPO).

The CCD consolidates the prior art cited by all participating offices for the family members of a patent application, thus enabling the search results for the same invention produced by several offices to be visualised on a single page.

- To open the common citation document, click on **CCD** in the toolbar of the **INPADOC patent family** screen.
 - ✓ The CCD viewer opens in a new browser window and shows the citation details for the selected patent application.
- To see the citation details for one of the other family members, click on the relevant application number.

http://ccd.fiveipoffices.org/CCD-2.0.8/html/viewCcd.html?num=EP20140189065&format=epodoc&type=application

Hide CCD viewer Double inspector Timeline

CCD Viewer Citations only view Compact view Sort by country Filter Classifications & fields searched

#	CC	Cat.	Citation details	Claims
1	KR		Application N° KR20140147554 (KR1020140147554) - 28 October 2014	
2	CN		Application N° CN20141587679 (CN2014105876799) - 28 October 2014	
3	US		Application N° US201414526115 (US14526115) - 28 October 2014	
4	CN		Application N° CN20142631373U (CN2014206313734) - 28 October 2014	
5	EP		Application N° EP20140189065 (EP14189065.7) - 15 October 2014	
			National Search Report	
	A		WO2010130611 A1 (LEVI MARIO [FR], et al) - 18 November 2010	1,2,7,8
	D		Page 5, line 6 - 11 Page 5, line 26 - page 6, line 2 Page 6, line 14 - 24 Claim 8, 11, 12 Figure 2	1,2,7,8
	A		US2013144563 A1 (NAUMANN STEFAN [DE], et al) - 6 June 2013	5,6
	D		Paragraph 2, 5, 10, 63, 117 Claim 1 Figure 1, 2a, 2b	5,6
	A		EP0280594 A1 (LEVI JEAN PIERRE [FR], et al) - 31 August 1988	1,7,8
	D		Column 3, line 43 - column 4, line 45 Column 5, line 8 - 17 Claim 1 - 4	1,7,8
	A		US2011094391 A1 (ERBA ROBERTO, , et al) - 28 April 2011	1,7,8
			Paragraph 23, 31, 32, 48, 49 Figure 1, 3	

Simple families: 1 Total family members: 6

Inspector: classifications and fields searched

Classifications

KR
IPC A4731/44, A4731/06
CPC A4731/446, A4731/4492, A4731/24, G0135/10, G0135/0806

CN
IPC A4731/06
CPC A4731/446, A4731/4492, A4731/24, G0135/10, G0135/0806

US
IPC G0135/10, A4731/24, A4731/44, G0135/08
CPC A4731/446, A4731/4492, A4731/24, G0135/10, G0135/0806

EP
IPC A4731/44
CPC A4731/446, A4731/4492, A4731/24, G0135/10, G0135/0806

IT
CPC A4731/446, A4731/4492, A4731/24, G0135/10, G0135/0806

Fields searched

EP
IPC A473

CCD viewer showing citations, classifications and documents for patent family members

Reference topics

A reference topic lists functional information such as facts, options, variables and keys. The reference topic can also provide definition lists and examples. The title of the reference topic should be short and precise.

The GUI description can be considered as a special reference topic which is also function-oriented. A GUI description explains what the user can see on the screen, what can be done in the application or what information can be found. These topics should be consistently named as appropriate to the GUI elements in order to find information quickly.

Databases in Espacenet

The following table summarises the different data and search options in the four databases/patent collections:

Worldwide collection

and the full-text databases:

Worldwide-DE,

Worldwide-EN,

Worldwide-FR

Data	Worldwide	Worldwide-EN full-text (including EP and WIPO databases)	Worldwide-FR full-text (including EP and WIPO databases)	Worldwide-DE full-text (including EP and WIPO databases)
Contents	Patent collection from 90+ national and regional patent offices from around the world	Patent collection from 90+ national and regional patent offices from around the world	Patent collection from 90+ national and regional patent offices from around the world	Patent collection from 90+ national and regional patent offices from around the world
Publishing cycle	Updated Monday to Friday as soon as possible after receipt of national patent publications. Bulk uploads of reclassified documents are added to the database during weekends.	EPs every Wednesday (after 14:01 hrs CET)	EPs every Wednesday (after 14:01 hrs CET)	EPs every Wednesday (after 14:01 hrs CET)
Classification search	CPC and IPC	CPC and IPC	CPC and IPC	CPC and IPC
Text search	Title, Title or abstract	Full-text search	Full-text search	Full-text search

Language for search terms	English	English	French	German
Documents retrieved	All documents	All documents published in English	All documents published in French	All documents published in German
Original document for a Euro-PCT application	Publication of the corresponding WO publication	Publication of the corresponding WO application	Publication of the corresponding WO publication	Publication of the corresponding WO publication

Field identifiers in Smart search

Search terms are not case-sensitive if entered in combination with a field identifier.

Field identifier	Search criterion	Data type	Example
in	inventor	text	in=smith
pa	applicant	text	pa=siemens
ia	inventor applicant	text	ia="smith john"
ti	title	text	ti="mouse trap"
ab	abstract	text	ab="mouse trap"
ta	title abstract	text	ta="mouse trap"
txt	title abstract inventor applicant	text	txt=diesel
pn	publication number	number	pn=ep1000000 pn=wo2014146025
ap	application number	number	ap=jp19890234567
pr	priority number	number	pr=ep20050104792
num	application number publication number priority number	number	num=ep1000000 num=wo2007117737
pd	publication date	date	pd=200201 pd=10/12/1999
cpc	CPC: cooperative patent classification	classification	cpc=g06f3/044 cpc=f21
cpcc	Classification combination	classification	cpcc="C08F8/30", cpcc="C08F297/02"
ipc	IPC: all current and former versions of the IPC	classification	ipc=a63b49/08 ipc=b65
cl	CPC IPC	classification	cl=g06f3

Field identifier	Search criterion	Data type	Example
ftxt, desc, claims	Full text, description, claims	text	ftxt=microscope, desc=lens, claims=laser
ct	citation/cited document	number	ct=ep1000000

Country codes

The country codes (CC) used in Espacenet are made up of two letters indicating the country or organisation where the patent application was filed or granted (e.g. FR for France).

EPO-specific country codes

AP African Regional Industrial Property Organization

EA Eurasian Patent Organisation

EP European Patent Office

OA African Intellectual Property Organization

WO World Intellectual Property Organisation (WIPO)

International country codes

All other codes conform to the international two-letter country codes as published by the ISO in the ISO 3166 standard.

http://www.iso.org/iso/country_codes.htm

You can access the list via the Online Browsing Platform at

<https://www.iso.org/obp/ui/#search/code/>

Number formats

The following table lists the applicable number formats for publication numbers, application numbers and priority numbers.

Number type	Format	Example	Remark
Publication number	CCn... CCnnnnnnnnnnnn	CH70623 US2015013545	Serial number with 1 to 12 digits
EP publication number	EPnnnnnnnn	EP1023455	Leading zeros are added automatically if less than seven digits are entered, e.g. EP1000 will return EP0001000
PCT publication number	WOyynnnnn WOyynnnnn WOyyyynnnnnn	WO0133678 WO03060809 WO2014146025	From 1978 until 30 June 2002 1 July 2002 to 31 December 2003 Single format, used since 1 January 2004
Application number	CCyyyn... CCyyynnnnnnn CCyyynLLnnnnn	IN2013MU2285	Serial number with max. 7 digits Special country formats, e.g. India
EP application number	EPyynnnnn EPyyyynnnnnn nnnnnnn.n	EP14405005 EP20140405005 14405005.1	EP can be omitted if entered in combination with the ap field identifier or in the application number field The first zero after the year (5th digit) can be omitted The full stop and check digit can be omitted
PCT application number	WOyyyyCCnnnnn	WO1998US04141	
Priority number	CCyyyyynnnnnnn	US20030423700	Original published formats like CCyynnnnnn have been converted

Date formats

The following date formats can be applied to search for the publication date, filing date and priority date in **Smart search** or **Advanced search**.

Date period	Format	Example
Year	yyyy	2013
Month	yyyymm yyyy-mm mm/yyyy mm.yyyy	201309 2013-09 09/2013 09.2013
Day	yyyymmdd yyyy-mm-dd dd/mm/yyyy dd.mm.yyyy	20130904 2013-09-04 04/09/2013 04.09.2013

Date ranges for the publication date

There are alternative entry methods returning the same results.

The emphasised examples in the table, i.e. those without field identifiers, work both in **Advanced search** and in **Smart search**.

Examples	Search results
<p>2005:2007 pd=2005,2007 pd="2005 2007" pd="2005,2007" pd="2005, 2007" pd="2005:2007" pd within 2005,2007 pd within "2005, 2007" pd within "2005,2007" pd within "2005 2007"</p>	<p>Applications published in the years of 2005, 2006 and 2007</p>
<p>200501:200701 2005-01:2007-01 01.2005:01.2007 pd="200501:200701" pd="2005-01:2007-01" pd="01.2005:01.2007" pd="01/2005:01/2007"</p>	<p>Applications published from 1. January 2005 onwards up to 31. January 2007</p>
<p>pd >200501 pd >2005-01 pd >01.2005 pd >01/2005</p>	<p>Applications published later than January 2005</p>

<p>20120101:20120315 01.01.2012:15.03.2012 pd within 20120101,20120315 pd within 2012-01-01,2012-03-15 pd within 01.01.2012,15.03.2012 pd within 01/01/2012,15/03/2012 pd >=20120101 AND pd <=20120315 pd >=2012-01-01 AND pd <=2012-03-15 pd >=01.01.2012 AND pd <=15.03.2012 pd >=01/01/2012 AND pd <=15/03/2012</p>	<p>Applications published from 1. January 2012 onwards up to 15. March 2012</p>
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CPC symbols

CPC symbols are derived from IPC symbols as follows:

- CPC symbols keep the same digits after the / (forward slash) as their parent IPC symbol.
- The symbols consist of only numeric characters after the /.
- If a group is specific to the CPC (and thus does not exist in the IPC), additional digits are appended.
- There can be a maximum of six digits after the /.

IPC subgroup

A63B49/027				
A	63	B	49	/027
Section 1 letter	Class 2 digits	Subclass 1 letter	Main group 1-3 digits	Subgroup slash + (1-3 digits)

CPC subgroup extending the IPC

A63B49/0276				
A	63	B	49	/0276
Section 1 letter	Class 2 digits	Subclass 1 letter	Main group 1-3 digits	Subgroup slash + (1-6 digits)

CPC 2000 series subgroup adding information

A63B2049/0282				
A	63	B	2049	/0282
Section 1 letter	Class 2 digits	Subclass 1 letter	Main group number 2 + 3 digits	Subgroup slash + (1-4 digits)

CPC classification tree

The CPC levels are structured like a family tree, which can be displayed as a tree structure or with a dot markup. The generations are: main group (0 dot), grandparents (1 dot), parents (2 dots), children (3 dots) and great-grand-generations (4 or more dots).

Example:

A	HUMAN NECESSITIES
A63	SPORTS; GAMES; AMUSEMENTS
A63B	APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT
A63B49/00	Tennis, badminton or like rackets
A63B49/02	• Frames
A63B49/027	•• Throat section, i.e. sections and elements between head and handle
A63B49/0276	••• T-shaped connection elements between head and handle
A63B2049/0282	••• with two legs having mutually different constructions

IPC Symbols

A full classification symbol defines an IPC subgroup and is made up of alphabetic and numeric characters in a specific pattern.

A63B49/02				
A	63	B	49	/02
Section 1 letter	Class 2 digits	Subclass 1 letter	Main group 1-3 digits	Subgroup slash + (1-3 digits)

Field help

Title

Short text describing the contents of the application.

In the title field, you can enter up to ten search terms, separated by spaces or the appropriate operators.

Title or abstract

Searches both in the title and the abstract.

The title is a short text describing the contents of the application. The abstract contains a concise summary of the disclosure of the invention as contained in the description, claims and drawings.

In the title or abstract field, you can enter up to ten search terms, separated by spaces or the appropriate operators.

Publication number

Number assigned to a patent application on publication.

Publication numbers are generally made up of a country code (two letters) and a serial number (variable, one to twelve digits), e.g. **CH706230**.

EP publication numbers are made up of the two-letter **EP** country code and a seven-digit serial number, e.g. **EP2822430**.

PCT publication numbers using the single format **WOyyyynnnnnn** are made up of the two-letter **WO** country code, the four-digit year and a six-digit serial number, e.g. **WO2013131722**.

Application number

Number assigned to an application when it is filed.

Application numbers are generally made up of a country code (two letters), the year of filing (four digits) and a serial number (variable, max. seven digits), e.g. **FR20120055299**. Leading zeros can be omitted.

EP application numbers are made up of the two-letter **EP** country code and an eight-digit serial number. e.g. **EP10755253**.

PCT application numbers consist of the country code **WO** followed by the four-digit year of filing, the two-letter country code of the country where the application was filed and a five-digit serial number, adding up to a fixed length of 13 characters, e.g.

WO1998US04141.

Some countries use specific different application number formats, e.g. China, Germany, Italy and India. For more information, please refer to the official websites of the patent organisation in question.

Priority number

Number of the application in respect of which priority is claimed, i.e. the application number of the claimed priority document.

Priority numbers are generally made up of a country code (two letters), the year of filing (four digits) and a serial number (variable, max. seven digits), e.g. **GB20130021235**. Leading zeros can be omitted.

CPC

The Cooperative Patent Classification (CPC) system is jointly developed and maintained by the EPO and the USTPO. The CPC is based on the IPC (and the former ECLA), but it contains more detailed subgroups, thus extending the IPC.

CPC symbols are entered using the classification pattern, e.g. **A63B49/0276** (extending the IPC subclass **A63B49/02**)

A 63 B 49 /0276 consists of

- Section: 1 letter
- Class: 2 digits
- Subclass: 1 letter
- Main group: 1-4 digits
- Subgroup: forward slash + 1-6 digits

There may be more than one classification symbol per application.

IPC

The International Patent Classification (IPC) system is developed and maintained by WIPO. The IPC provides a hierarchical system of language-independent symbols for the classification of patents and utility models according to the different areas of technology.

IPC symbols are entered using the classification pattern, e.g. **A63B49/02**

A 63 B 49 /02 consists of

- Section: 1 letter
- Class: 2 digits
- Subclass: 1 letter
- Main group: 1-3 digits
- Subgroup: forward slash + 1-3 digits

There may be more than one classification symbol per application.