Common Citation Document (CCD)

Handbook

User documentation and online help

Version 3.0

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Introduction and Concepts of the Common Citation Document

This section gives background information about the Common Citation Document application. It helps you to understand the use of the application, and it supplies you with legal and technical information.

Common citation document (CCD)

The Common Citation Document (CCD) application provides single-point access to citation data supplied by more than thirty patent offices.

It 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 viewed on a single page.

The creation of the CCD application is part of an ongoing process of technical harmonisation at the international level aimed at establishing an appropriate infrastructure to facilitate greater integration of the global patent system.

Benefits of CCD

CCD is a quick and easy citation search and analysis tool, that allows insight into prior art searching and the methods used by patent authorities to search and examine patent documents. It contains simple patent families, extended families and citations in one view making it easier to identify and analyse certain patterns of cited documents, company filings and patent authority procedure.

In particular CCD is used to:

- Identify the geographical areas targeted by the applicants/companies
- Identify potential markets or areas of protection for your inventions
- Identify the patent strategy of an applicant by viewing the gap between the filing dates of applications for the same invention
- Easily identify whether there are more family members (divisional applications or continuations in-part)
- Identify patent search/examination procedure of the patent authorities
- Anticipate the outcome of your applications or those of your competitors in the early stages of the procedure.
- Identifying the success of patent documents by viewing the amount of times it has been cited in other areas.

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. <u>A patent document consist of:</u>

- 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 families

A patent family is a group of patent documents that are linked directly or indirectly to one or more priorities. There are two definitions of patent families, the simple patent family and the extended patent family.

Simple patent family

A simple patent family is the collection of patent applications that have been filed for the same invention in different countries / regions and are claiming the same priority or same combination of priorities.

In some cases more than one patent family can be displayed. This occurs when various patent office's cite different patent documents (citations) for the same invention.

Synonyms for the Simple Patent Family:

- Also published as
- Equivalent(s)

Extended patent family

An extended patent family is a collection of patent documents that are directly or indirectly related to one particular priority document.

Complex structures of the extended patent family occur when patent applications are filed in several different countries/regions and when much earlier applications (older than 18 months) are cited as the priority. This has the result that the same or similar inventions are indirectly connected by a priority or combination of priorities.

Synonyms for the Extended patent family:

INPADOC Patent family

More information can be found about <u>Patent families</u> on the EPO website.

Priorities

A priority is the first filing of a patent application that seeks protection for a single invention in one country. When protection is sought for the same invention in other countries, the first filing is claimed as the prior art or priority by indicating the application number and date in the succeeding application.

1 Note: Priority can only be claimed within twelve months of the first filing for protection of the invention in different countries.

Data quality

Accuracy of the data retrieved by the CCD web application engine relies on the extent to which data is exchanged between the participating offices. In particular, delays in bibliographic data delivery can vary depending on the country and the time period involved. Before relying on the completeness of a common citation document,

One should check where there are gaps or if there are delays in certain areas. This information is available in the statistics of the world wide bibliographic database (DOCDB) and the worldwide legal status database (INPADOC) which provide indications of missing or delayed document series, (updated weekly). In addition, particular attention should be given to European patents which have entered into the national phase. In these cases completeness of a document series and its data accuracy can vary significantly between countries.

Data coverage

Please find information on data coverage as well as citation origin in the document named Overview of citation data in the EPO's citation database (REFI), which can be downloaded from the webpage Useful tables and statistics > <u>Updated regularly</u> on the EPO website.

 It is important to consult this information on a regular basis to check for gaps in the coverage.

Tasks

This section provides a step-by-step guide to the use of the CCD application and helps user to achieve specific results and goals.

1. Accessing the common citation document

There are different routes to accessing the Common Citation Document service.

1.1. Access via the official IP5 Website

The common citation document application can be accessed via the official <u>IP5 website</u>.

Enter <u>www.fiveipoffices.org</u> in the address line of your browser.

On the landing there is a section dedicated to the **Common Citation Document (CCD)** application.

→ Click on the *Common Citation Document* link to open the application.





1.2. Access via Espacenet

In Espacenet you can open the CCD application from the panels *Cited documents* and *INPADOC patent family*.

→ Click on the CCD link in the upper command line to open the document and the family members on the current page.

The CCD application opens with the root document in the header, the family members and their citations are displayed in the CCD viewer. The patent applications in the CCD Viewer are sorted by the rule of: *first-in, last-out* i.e. the last application to enter the database is the one displayed at the top of the list.

EP1000000 (A1)	Cited doc	uments: EP1	000000 (A1) — 2000-(05-17			
Bibliographic data Description	Select all (0	/3) 🔳 Compact	⊖ Export (CSV XLS) ↓	Download covers	S CCD		🔒 Print
Claims Mosaics Original document							
Cited documents Citing documents INPADOC legal status INPADOC patent family Patents cited in the search report							
	1. Apparatu	s for manufacturing	green bricks for the brick manuf	acturing indust	try.		
Quick help - → What are cited documents? → Can 1 export this list? → What happens if 1 click on "Download covers"? → What happens if 1 click on the	Inventor: KOSMAN JACOBUS	WILHELMUS S MARIA [NL]	Applicant: BOER BEHEER NIJMEGEN BV DE [NL]	CPC: <u>B28B5/022</u> <u>B28B7/0014</u> <u>B28B7/10</u>	IPC: B28B5/02 B28B7/00 B28B7/10 (+3)	Publication info: EP0680812 (A1) 1995-11-08 EP0680812 (B1) 2001-02-28	Priority date: 1994-05-06
<u>star icon /</u>	2. Inrichting voor het vervaardigen van vormlingen.						
	Inventor: KOSMAN JACOBUS	WILHELMUS 5 MARIA [NL]	Applicant: BOER BEHEER NIJMEGEN BV DE [NL]	CPC: <u>B28B13/0205</u> <u>B28B5/022</u>	IPC: B28B13/02 B28B5/02 (IPC1-7): B28B5/02	Publication info: NL9400663 (A) 1995-12-01	Priority date: 1994-04-25
	3. Apparatu	s for shaking found	ry moulds in a casting installation	<u>n</u>			
	★ Inventor: ZAHN HA	NS [DE]	Applicant: NETZSCH MASCHINENFABRIK [DE]	CPC: <u>B28B1/0873</u> <u>B28B5/022</u>	IPC: B28B1/087 B28B5/02 (IPC1-7): B28B1/08 (+1)	Publication info: DE3546191 (A1) 1987-07-02	Priority date: 1985-12-27

Figure 2: Showing the CCD link from the Cited documents panel. It is positioned the same in the INPADOC patent family panel.

2. Setting CCD interface

The CCD application has three sub-windows, the **CCD Viewer** and the **Inspector** and the **Timeline**. The CCD Viewer and Inspector windows are opened by default on accession to the application. The third window, the **Timeline**, has to be opened manually by clicking on the **Timeline** toggle button.

CCD Viewer - displays a list of the simple patent family and corresponding citations. **Inspector** – displays detailed information of the patent documents listed in the CCD Viewer, **Timeline** – displays the patent family(ies) in the **CCD Viewer** in a graphical timespan.



Figure 3: Showing the CCD Viewer and Inspector and the toggle button to open the Timeline.

2.1. Using the Show/Hide CCD viewer

The toggle button **Show CCD viewer/Hide CCD viewer** opens and closes the CCD viewer window. This useful function maximises (or minimises) the Inspector window for easier reading of documents.

→ To hide the CCD viewer click on the toggle button *Hide CCD Viewer*.

The CCD viewer is temporarily hidden.

→ To re-open the viewer click on the same button now displayed as Show CCD viewer.

	EP20	040	425480		
	📄 ніа	e CC	CD <u>v</u> iewer Double <u>i</u> nspector <u>III</u> Iin	neline 🔻	
CCE	View	v er y vie	EP20040425480 [®]	[Export
#	сс	C	Show CCD viewer Double inspector		Claims
- 1	L Jł	2	Inspector: classifications and fields searched	⁷ 61) - 1 July 20	^
2	2 JF	2	Application Nº JP20090214944 (JP200921494	14) - 16 Septem	ber 2009

Figure 4: Showing the Hide CCD viewer and Show CCD viewer toggle button.

2.2. Using the Double inspector

The double inspector function allows you to have two inspectors (document content) open simultaneously.

EP20040425480 [®]	
Hide CCD viewer Double inspector	ine 🔻
CCD Viewer	Export 🚽 🖶
Citatio	Classifications & fields searched
# Hide CCD viewer Single inspector	Claims
1 CCD Viewer	1) - 1 July 2011
2 JP Application Nº JP20090214944 (JP2009214944)	- 16 September 2009
Figure 5: Showing the Double inspector and Single inspector toggle be	utton.

 \rightarrow To open the second inspector click on the **Double inspector** toggle button.

Two inspectors are now open alongside the CCD viewer.

You can choose which document is displayed in which Inspector when you right click on a document in the CCD viewer a tooltip appears where you can select from *Inspector 1* or *Inspector 2*.

→ To close the double inspector click on the same button now displayed as *Single inspector.*

The information in the second (double inspector) is closed.



Figure 6: Example of two inspectors open simultaneously alongside the CCD viewer.

Tip! Click on Hide CCD Viewer to maximise the single or double inspector(s) for easier reading of document details.

2.3. Activating the Timeline

The *Timeline* button opens an additional window in the lower part of the *CCD viewer*. It displays the timespan of applications, citations, publications and priorities in a graphical type format.

 \rightarrow Click on the *Timeline* toggle button to show or hide the timeline window.

The Timeline appears in the lower part of the CCD Viewer.

When the CCD viewer is hidden the *Timeline* is temporarily disabled. To enable, you must click *Show CCD viewer*.

Find more information in Chapter 12. Timeline.

3. Getting help

In this section you can find out what type of help is available to you when using the CCD application.

3.1. Online help

In top right-hand corner of the CCD application there is a *Help* button that opens the CCD handbook, which is a step-by-step guide on how to use the CCD application and its individual features.

When the CCD application is opened for the first time from the Official IP5 website (<u>www.fiveipoffices.org</u>), the CCD handbook opens by default.

→ To close the Handbook click on the X in the top right-hand corner of the handbook mask.

nber:		Search examples: EP16124	102, US2006000447A1, JP20090214944
	fiveIPoffices-CCD Help (v2.1.6)		Fill & Sign Comment
	Evolution Evolution	(I) Common Handbool User docum	Citation Document (CCD) k mentation and online help
		11 January 20 Version 1.2 European Pat Dir: 5423 User	117 Intent Office r Support Coordination and Tools



3.2. Contact EPO customer support

Write to Customer services using the EPO web form or call our customer service desk. All Contact details can be found on the <u>EPO website</u>.

3.3. The Discussion forum

The patent information <u>Discussion forum</u> offers free real-time help from user to user and the patent information teams post real-time news, updates, workarounds and new features surrounding the patent information products.

→ To access the forum go to the EPO website <u>www.epo.org</u>, scroll to the bottom of the webpage and click on the *Forums* link under *Service and support*.

To use all features of the forum you have to register by entering your email address and applying a username and password to the account.

→ To create an account click on the *Register* link to the top right of the forum homepage.



→ To access your account as a registered forum user, click on the *Login* link and enter your username and password.

ð)	Europäisches Patentamt European Patent Office Office européen des brevets	Discussion forum			Contact FAQ		
4 About dis	cussion forums	Search all forums:	Enter search term	Search	→ Advanced search	Re	gister Login
Figure 9:	igure 9: Indicating the link to Login.						

3.3.1. Subscribe to a Forum

There are several different forums for the individual products for patent information. If you have one or more forums that you would like to follow or avoid missing new threads on particular topics, you can choose to subscribe to a forum.

 \rightarrow To subscribe to a forum click on the title link of the forum you want to monitor.

The forum opens.

 \rightarrow Scroll to the bottom of the forum page and tick the box **Subscribe**.

You will now receive an email notification as soon as new posts occur in that forum.

TIP! Subscribe to the *Patent Information Matters* forum where all topics for all forums are posted.

4. Entering search terms

Search terms can be entered in the *Number* field in the command line. Search terms can be entered in number and keyword format.

To start a search

→ enter your search terms in the *Number* field and click on the *Search* or hit the *Enter* (return) key.

The CCD viewer opens to display the simple patent family or families and their citations. By default the Classifications and fields searched opens automatically in the Inspector when CCD is opened for the first time.

fiveIPoffices - CCD		
Number:	Search	
Figure 40: Showing the Number course field		

Figure 10: Showing the Number search field.

4.1. Search by numbers

Patent document numbers are unique IDs that are assigned to the patent document at the time of filing and publication, thus clearly identifying a specific document.

The following patent document number formats can be used to search in CCD.

Description	Compatible number formats
Application number national	09/667,353
Application number international	PCT/US2005/035078
Publication number with country code	WO2011018055 or WO 2011 018055
Publication number (without country code)	2011,018,055 or 2011018055
Publication number with kind code	EP1002935 A1 or EP1002935A1
Priority document (international)	WO2007JP73287 or WO,2007,JP,73287
Priority document (national)	JP20070041489 or JP 2007 004 1489

See also Chapter 6.2 Field identifiers.

4.2. Search by date

You can search by the publication date using any one of the following formats.

YYYYMMDD or DDMMYYYY or YYYYMM or MMYYYY

YYYY/MM/DD or DD/MM/YYYY or YYYY/MM or MM/YYYY

YYYY-MM-DD or DD-MM-YYYY or YYYY-MM or MM-YYYY

i It is not possible to search with date ranges.

4.3. Search by name

Names of representatives, inventors, companies can be searched in CCD. Field identifiers must be used to acquire a valid result.

Example

Enter *in="smith thomas*". CCD retrieves applications with this name stated as at least one of the inventors.

As a rule names are entered in the order of *last name, first name, middle name* separated by commas in the EPO databases, however varying this order may help you to find the application searched.

Note: Names are not case sensitive.

See <u>Chapter: 6.2 Field identifiers</u> for more information.

4.4. Searching by keywords

Keywords can be used to search for words in the title of patent documents with the field identifier *ti* (title) in the languages English French and German.

<u>Example</u>

ti=motor this search query will search for the word motor in the title of English and German documents.

4.5. Opening multiple tabs

It is possible to have more than one patent document open at the same time on the CCD interface.

To open a new tab enter a new search term in the *Number* field, a new tab is then created.

fiveIPoffices - CCD		
Number: US2006000447A1	Search	examples: EP1612402, US2006000447A1, 3P20090214944
EP20100011105 EP20040425480 US20050095425 [®]		
Hide CCD viewer Double inspector III Timeline		
Figure 11: Example of multiple tabs opened.		

- \rightarrow To select a tab, click within the tab area. Only one tab can be opened at a time.
- 4.5.1. Resetting/Deleting search queries and tabs

To clear the *Number* field of entered search terms,

 \rightarrow click on the cross symbol (X) to the far right of the field.

fiveIPoffices - CCD	
Number: US2006000447A1	Search examples: EP1612402, US2006000447A1, JP20090214944
📑 EP20100011105 🛛 📑 EP20040425480 🛛 🔂 US200500954	1258
Hide CCD viewer	imeline 🔻

Figure 12: Indicates the position of the cross symbol in the input field.

To close a tab,

 \rightarrow click on the cross symbol (X) within the tab field.

i The **X** symbol only appears in the tab area when the tab is selected.

fiveIPoffices - CCD		
Number: US2006000447A1	Search	examples: EP1612402, US2006000447A1, 3P20090214944
₩ EP20100011105 ₩ EP20040425480		
Hide CCD viewer		
Figure 13: Showing the X symbol within the tab area.		

 \rightarrow To close all tabs click on the **X** to the far right of the tab panel.

When you hover over this **X** symbol the tooltip, **Close all tabs** appears as a button that you can click on to close all tabs in one go.

fiveIPoffices - CCD		Search ? Help
Number: US2006000447A1	Search examples: 191512462, U52006000447A1, 3920080214044	\bigcirc
📑 US20050095425 🛛 📹 EP20040425480 🛛 📑 JP20090214944 ³³		🛞 Close all tabs
Hide CCD viewer	•C	\bigcirc

Figure 14: Showing the X symbol to the far right of the tab panel and the tooltip, i.e. button that closes all tabs.

5. Getting results

5.1. Direct result

When an explicit search term is entered, i.e. retrieves a direct result, the CCD viewer automatically opens to display, the results comprising the patent families and their citations.

5.2. Multiple results (ambiguous result)

If your search term retrieves more than one result, CCD will list the possible hits, in the *Multiple results* view.

The total amount of documents retrieved is displayed in the navigation bar. The results can stretch over several pages.

→ To navigate through the pages, click on the subsequent number in the middle of the navigation bar.

fiveIPoffices -	CCD					Search ? Help
Number: 123456			Search examples: EP	1612402, US2006000447A1, JP20090214944		
Multiple results The list of search res For even better results 	ults below contains mu lts, please enter a more	ltiple publications based definitive number or se	on your search input. arch terms in the search box. C	lick here for a few input and search examples.		8
			1	2		Results 1-25 of 31
1. Lock-nut for the su	pporting leg bolt	Delegiby claims	Inventor(c)	Applicant(c)	cnc	Inc
PL20140123456U 17 Oct 2014 (PL 123456)	PL123456U (U1) 25 Apr 2016	PL20140123456U 17 Oct 2014	DAWIDCZYK PIOTR [PL]	INTEGER PL SPÓŁKA AKCYJNA [PL]	CPC	F16B39/24
2. кабельный наконо	ечник для брониров	анного геофизическо	го кабеля			
Application info RU20120142891U 8 Oct 2012 (RU 2012142891/03)	Publication info RU123456U (U1) 27 Dec 2012	Priority claims RU20120142891U 8 Oct 2012	Inventor(s)	Applicant(s)	CPC	IPC E21B47/01 H01R11/11 (+1)
3. Table						
Application info CA20070123456F 5 Dec 2007 (CA 123456)	Publication info CA1234565 (S) 30 Oct 2008	Priority claims EM200773993300F 11 Jun 2007	Inventor(s)	Applicant(s) EM EXP LTD	CPC	IPC
4. No title available						
Application info SU19580610565 27 Oct 1958 (SU 610565)	Publication info SU123456 (A1) 30 Nov 1958	Priority claims SU19580610565 27 Oct 1958	Inventor(s) KOSAREV V A	Applicant(s) KOSAREV V A	CPC	IPC C08K5/00 C08K13/02
5. No title available						
Application info SU19330123456 7 Feb 1933 (SU 123456)	Publication info SU34546 (A1) 28 Feb 1934	Priority claims SU19330123456 7 Feb 1933	Inventor(s) LOSHAKOV P YA	Applicant(s) LOSHAKOV P YA	CPC	IPC C07C69/145 C07C67/08
6. Method and arrang	ement for communic	ating subscriber relat	ed data in a wireless commu	nications system		
Application info MY1999PI01396 10 Apr 1999 (MY PI 99001396)	Publication info MY123456 (A) 31 May 2006	Priority claims SE19980001612 8 May 1998	Inventor(s) PETTERSSON MATS [SE]	Applicant(s) ERICSSON TELEFON AB L M [SE]	CPC H04L63/0492 H04L63/0853 (+6)	IPC H0481/38 H04W12/06 (+4)
7. Aerodynamic devic	e for increasing the	adherence of motor ve	hicles			
Application info R020070000551 2 Aug 2007 (RO A 2007 00551)	Publication info R0123456 (B1) 29 Jun 2012	Priority claims R020070000551 2 Aug 2007	Inventor(s) BORDEI ŞTEFAN [RO]	Applicant(s) BORDEI ŞTEFAN [RO]	CPC	IPC B62D37/02

Figure 15: Example of multiple results in the Multiple results window.

You can select a document from the list of *Multiple results* by clicking on the title link. This will open the CCD viewer and list the patent family members with their citations as usual.

→ If no results are retrieved, an error message will appear with instructions to check your search criteria again or to try using different search terms.

See also Chapter 14. Common Error messages

6. CQL for power users

6.1. Boolean operator

The Boolean operator **AND** is the default operator for connecting two search strings; it is the equivalent to using a blank space as part of the input.

6.2. Field identifiers

Field identifiers can be used to enter keywords, names, dates and classifications in the Number field.

The field identifiers in the table below can be used to search in the CCD application.

Description	Field identifier	Search query example
Applicant	ра	pa=johnson
publication date	pd	pd=2010
title	ti	ti=lenses
inventor	in	in=mullis
inventor and applicant	ia	ia=Siemens
cooperative/international patent classification	cpc or ipc	cpc=F16D7/028 or ipc=F16D7/02

→ Field identifiers should be used for all search terms that are not patent document numbers to avoid ambiguous output or too many results.

7. CCD Viewer

7.1. Viewing the search results

The search results are displayed in the CCD viewer window as *Simple families*, i.e. the simple patent family and extended patent family, with their citations, if available.

In the CCD Viewer the applications and citations are displayed according to the five columns as described in the below table.

#	the counter
CC	country code (e.g. EP for European Patent; US for the USA)
Cat.	Category of relevance attributed by the examiner with respect to the set of claims for which the search has been performed.
Citation details	Information concerning both the patent document input by the CCD web application users, its family members and the cited documents.
Claims	The claims of the family member for which a relevant document has been found by the examiner who performed the search within the respective patent office. This information is only available for searches performed at the EPO, e.g. EP or WO where the EPO has acted as International Search Authority.

The order and positions of the information displayed in the *Citation details* column is split into two categories: <u>applications</u> and <u>citations</u>

The following order of the information displayed for <u>applications</u> in the **Citation details** is as follows:

Patent application number

Patent publication number (in parentheses) Publication date

The following order of the information displayed for <u>*citations*</u> in the *Citation details* column is as follows:

Patent publication number

Kind code, if available (see <u>Kind code concordance list</u>) Applicant name and country code (in parentheses) Publication date Claims if cited (by an examiner in a search report) Rich citation information (often used for NPL and citations from search reports)

Citations where the *Citation details* column remains blank in the *CCD viewer*, are not available in the database. In such cases, please refer to the corresponding patent authority for further information.

7.2. Citations in the CCD Viewer.

The content of citation documents in the CCD viewer can be opened and displayed in the *Inspector*.

 \rightarrow Click in the area of the citation you want to view.

The citation opens in the Inspector.

- → To view two citations simultaneously, right-mouse click in the area of the citation title link and select from the option **Show in Inspector 1** or **Show in Inspector 2**.
 - NPL Non patent literature citations cannot be displayed in the *Inspector* due to copyright issues. You have to use the rich citation information available to retrieve further information, i.e. online or directly from the publisher.

7.3. Patent families in the CCD Viewer

The simple patent family is primarily displayed in the *CCD viewer*. The extended patent family has to be downloaded individually. See also <u>Chapter 8. Get next family - Extended</u> patent family or families in CCD

The family members, i.e. applications, are displayed and ordered by the *publication date*.

The Simple patent family is known as the Simple families: 1 in the CCD application.

By default, the simple patent family is loaded first in the CCD viewer, i.e. is displayed at the top of the list of results.

All consecutive families belong to the extended patent family and are named **Simple** *families 2, Simple families: 3* and so on.

The total amount of simple families and family members is indicated in the lower bar of the CCD viewer.

CCD Vi	ewer			Export 🕶 🖶
Citations	only view	Con	npact view Sort by country Filter -	Classifications & fields searched
*	СС	Cat.	Citation details	Claims
- 1	JP		Application Nº JP20110003761U (JP2011003761) - 1 July 2011	~
2	JP		Application Nº JP20090214944 (JP2009214944) - 16 September 2009	
			Cited by the examiner (Search/Examination)	
			JP2004011448 A (NIPPON SOKEN, et al) - 15 January 2004	
			JP2004124727 A (DENSO CORP) - 22 April 2004	
			JPH01160164 U - 7 November 1989	
			JPH11230005 A (NIPPON SOKEN, et al) - 24 August 1999	
			JPH10299611 A (NIPPON SOKEN) - 10 November 1998	
			JP2001107776 A (NISSAN MOTOR) - 17 April 2001	
			JP2000130288 A (TOYOTA MOTOR CORP) - 9 May 2000	
3	US		Application Nº US20050095425 (US11095425) - 31 March 2005	
			National Search Report	
			US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985	
			US5619970 A (LUCAS IND PLC [GB]) - 15 April 1997	
			US6234148 B1 (SIEMENS AG [US]) - 22 May 2001	
			US6739317 B2 (BOSCH GMBH ROBERT [DE]) - 25 May 2004	
			US6889656 B1 (BOSCH GMBH ROBERT [DE]) - 10 May 2005	
			US6253734 B1 (BOSCH GMBH ROBERT [US]) - 3 July 2001	
			US6439199 B2 (BOSCH REXROTH CORP [US]) - 27 August 2002	
			US4957084 A (BOSCH GMBH ROBERT [DE]) - 18 September 1990	
_			US6311674 B1 (DENSO CORP [US]) - 6 November 2001	· · · ·
Simple f	families: 1		Total family members: 8	

Figure 16: Example of the lower bar of the CCD viewer indicating the amount of simple families and family members. This example shows the Simple patent family (*Simple families 1*) with a total of eight family members.

8. Get next family - Extended patent family or families in CCD

When an Extended patent family, i.e. Simple families 2 and onwards are available you can see the total amount of Simple families and family members in the lower bar of the CCD viewer and a new button **Get next family** appears.

The extended patent families are not automatically downloaded to the CCD viewer.

 \rightarrow To retrieve the Simple families 2 and onwards, click on *Get next family*.

The next family is opened in the CCD viewer and the information in the lower bar is updated to display which families have been downloaded.

 \rightarrow The **Get next family** button only appears when there is more than one simple family.



If there are two or more simple families available you can open them one-by one or in one

go, by using the drop-down menu (see arrow) behind the Get next family button.

You can choose to

simple families can be downloaded.

→ Click on the amount of families you want to download next from the drop-down menu, e.g. for the next family click in the menu on *1 family*, or for the next two families click on *2 families* (see below figure 18).

OR

→ Click on the simple family with the maximum number of families to download all families at once, e.g. in figure 18 below, click on 5 families to download all of them.



Figure 18: Displaying the drop-down of the *Get next family button*. This example shows that there is a maximum of 5 simple families belonging to the extended patent family.

Note: It can take several seconds until the download of further patent families and family members, is complete. This depends on the amount of data to be retrieved.

8.1. Identifying Simple families in the CCD viewer

The plus $\textcircled{}^{\bullet}$ or minus symbol $\textcircled{}^{\frown}$ next to an application number marks the start of the next simple family in the CCD viewer.

÷	53	US	Application Nº US20060430522 (US11430522) - 9 May 2006
÷	54	US	Application Nº US20030407864 (US10407864) - 3 April 2003
	55	US	Application Nº US20030728738 (US10728738) - 4 December 2003

Figure 19: Example of plus and minus symbols next to the simple families in the CCD viewer.

To open all applications (and citations) in a simple family

ightarrow , click on the plus ightarrow symbol.

To collapse the view of all applications (and citations),

 \rightarrow click on the minus \Box symbol.

The downloading of other families can take several seconds before completion. This depends on the amount of data, e.g. family members and citations that that have to be retrieved. After the download the simple families and family members are displayed in the CCD viewer. See also <u>Concepts: Patent families</u>.

8.2. Identifying cited documents (citations) and their origin.

Citations are documents brought forward during the search and examination procedure, in the search report, or from other parties, i.e. applicants, opponents. They determine the novelty and inventiveness of an application.

Citations can be made by different parties to the procedure, e.g. third party observations, opposition. They can also be references to patent documents or to non-patent literature, such as magazines or books.

The origin of the citations is indicated in the CCD viewer with one of the following subtitles:

- European examination
- European search report
- International search report
- International examination
- National examination
- National search report
- Cited by the examiner (Search/Examination) (for JP citations only)
- Applicant
- Opponent

CCD Vi	ewer			Export 🚽 🖶
Citations	hanly view	Cor	mpact view Sort by country Filter -	Classifications & fields searched
#	СС	Cat.	Citation details	Claims
3	US	0	Application Nº US20050095425 (US11095425) - 31 March 2005 National Search Report	^
			US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985	
			US5619970 A (LUCAS IND PLC [GB]) - 15 April 1997	
			US0234148 BI (SIEMENS AG [US]) - 22 May 2001	
			US6739317 B2 (BOSCH GMBH ROBERT [DE]) - 25 May 2004	
			US6889656 B1 (BOSCH GMBH ROBERT [DE]) - 10 May 2005	
			US6253734 B1 (BOSCH GMBH ROBERT [US]) - 3 July 2001	
			US6439199 B2 (BOSCH REXROTH CORP [US]) - 27 August 2002	
			US4957084 A (BOSCH GMBH ROBERT [DE]) - 18 September 1990	
			US6311674 B1 (DENSO CORP [US]) - 6 November 2001	
			US6823845 B2 (BOSCH GMBH ROBERT [DE]) - 30 November 2004	
			US4884545 A (IVECO FIAT [IT], et al) - 5 December 1989	
		1	US6497216 B2 (BOSCH GMBH ROBERT [DE]) - 24 December 2002 Applicant	
			DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998	
			DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004	
			EP0270720 A1 (RENAULT [FR]) - 15 June 1988	
			EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989	

Figure 20: Showing examples of the subtitles for citations cited in the National Search Report and by the Applicant.

8.3. Rich citation information

Rich citation information is additional information that is added to a citation to indicate relevant passages or details in documents, such as page numbers, paragraphs or figures. In cases where a citation is from a website or book, or magazine article the rich citation information can include date, name of the webpage or publisher, so it is easier to find.

Rich citation information is displayed in the Citation details column of the CCD viewer, when available.

i NPLs cannot be opened in the *Inspector*, you will have to retrieve them from the source using the rich citation information given.

8	EP	Application Nº EP20040425480 (EP04425480) - 30 June 2004	
		National Search Report	
	х	DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 * page 3, paragraph 19; figure 1 *	1-3
	х	US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985 * column 2, line 22 - column 2, line 23; figure 1 *	1-5
	х	EP0270720 A1 (RENAULT [FR]) - 15 June 1988 * page 5, line 12 - page 6, line 5; figures 1, 6 *	1,4-8
	А	EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989 * figure 1 *	1-8
	А	DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998 * figure 1 *	1-8
			×
Simple f	amilies: 1	Total family members: 8	

Figure 21: Example of rich citation information for five citations in a National Search Report.

1 The availability of rich citation information can depend on the procedures of the individual patent authorities. For the availability of citation data please refer to the column *Enrich search citation from* of the table *Overview of citation data in the EPO's citation database (REFI)* which can be found on the EPO webpage in the section *Updated regularly* of the <u>Useful tables</u> <u>and statistics pages</u>.

9. Modifying the search results

The list of results in the *CCD Viewer* can be modified with the toggle buttons displayed in the upper command line of the CCD Viewer. With these buttons you can arrange the list to your own preference.

9.1. Citations only view

The *Citation only view* hides all applications displayed in the CCD viewer and shows the citations alone.

To display only the citations in the CCD viewer,

→ click on *Citations only view* in the command line.

The patent family applications are temporarily hidden.

To return the view with applications

→ Click *Citations only view* again.

By default the citations are ordered in the viewer by the publication date. The citations are also alternately indicated in sections of *grey* and *white*. This is an indicator for citations that belong to the same simple patent family.

When you click on a citation in either the grey or white section, the sections are visually enhanced for easier reading.

fiveIPoffices	- CCD					
Number: EP1783326		Search #samples: EP1612402, US2006000447A1, 3P20090214944				
EP20060123454	2					
Hide CCD ylewer	Do	uble (nspector III) Timeline 🔹				
CCD Vienner			8	EP0541207.A1 (EP200601234	154)	
Cathiana anly view	initial interfaced for	Sort by country Filter +	Classifications & fields searched	+ Bblo Description Claims	Original document	
Appenation	Cat.	Citation details	Claims	Bibliographic data: EP 0	541207 (A1)	
EP20060123454	×	EPOS41207 A1 (GEN ELECTRIC [US]) - 12 May 1993 - Column 5, line 33 - column 5, line 37 Figure 3, 3	1-9	Prallgekühltes schau	ifelblatt mit einem (die blattha
EP20060123454	A	US5695321 A (GEN ELECTRIC [US]) - 9 December 1997 Column 6, line 28 - column 6, line 32 Figure 4 - 6	2	Inventor(s):	DAMUS NICHOLAS	[US]; MARTU
EP20060123454	x	US2003035726 A1 (TIEMANN PETER, , et al) - 20 february 2003 Page 4, paragraph 44 - page 4, paragraph 45 Figure 4	1-9	Applicant(s): Classifications:	GEN ELECTRIC (US)	B23P1
EP20060123454	A	undefined			Cooperative:	823P1
EP20060123454	۸	Non-patent literature 8-9 p. A		Application number:	EP19920306127 199	20702
FR20050053357	×	EP0541207 A1 (GEN ELECTRIC [US]) - 12 May 1993 Column 5, line 33 - column 5, line 37 Figure 2, 3	1-9	Priority number(s):	US19910787345 19	311104
FR20050053357	A	US5695321 A (GEN ELECTRIC [US]) + 9 Desember 1997 Column 6, line 28 - column 6, line 32 Figure 4 - 6	2	Abstract of EP 05412 An impingement cooled aird diffusion bonding foll. The i	foil (10) is fabricated by di nsert (18) is perforated sc	ffusion bondi as to act as

Figure 22: Example of a visually enhanced section of citations belonging to the same simple family.

Citations that have been cited in multiple applications are repeated in the *Citations only view*.

When you are in the *Citations only view* and provided you have opened more than one simple family in the CCD viewer, i.e. the *Get next family* button is activated, a new button, *Group across extended family* temporarily appears. This button enables you to

a) Group the citations of the extended family, to see in which countries the (same) citations have been cited.

Or

b) You can toggle back to the simple family view with the same button now displayed as Group across simple family when you are in the Group across extended family view.

The same citations are grouped together in alternating white and grey panels.

fiveIPoffices - CCD	
Number: EP2266537	Search examples: EP1612402, US2006000447A1, JP20090214944
EP20040425480 EP20100011105®	
Hide CCD viewer	
CCD Viewer	Export 💌 🖶
Citations only view Group across extended family Sort by country Filter	Classifications & fields searched

Figure 23 Example of Group across extended family button next to the activated Citations only view.

EP201000111	<mark>05</mark> 8	
Hide CCD view	wer Double inspector	
CCD Viewer		Export 🚽 🖶
Citations only view Gro	oup across simple family Sort by country Filter 🗸	Classifications & fields searched
Application	Cat. Citation details	Claims
JP20120025785	JP2004501955 A - 22 January 2004	~
US20060429911	US7060828 B2 (INEX PHARMACEUTICALS CORP [CA]) - 13 June 2006	
US201213536325	US7060828 B2 (INEX PHARMACEUTICALS CORP [CA]) - 13 June 2006	
US20100963888	US2006269594 A1 (INEX PHARMACEUTICALS CORP [CA]) - 30 November 2006	
US201213536325	US2006269594 A1 (INEX PHARMACEUTICALS CORP [CA]) - 30 November 2006	
US20080075013	US7060828 B2 (INEX PHARMACEUTICALS CORP [CA]) - 13 June 2006	
US20080075013	US7244448 B2 (TEKMIRA PHARMACEUTICALS CORP [CA]) - 17 July 2007	
US20040788649	US6352996 B1 (STEHLIN FOUNDATION FOR CANCER [US]) - 5 March 2002	
US20080075013	US6320017 B1 (INEX PHARMACEUTICALS CORP [US]) - 20 November 2001	
US20040782738	US6320017 B1 (INEX PHARMACEUTICALS CORP [US]) - 20 November 2001	
US20040782738	US6320017 B1 (INEX PHARMACEUTICALS CORP [US]) - 20 November 2001	
EP20080003804	US6320017 B1 (INEX PHARMACEUTICALS CORP [US]) - 20 November 2001	
US20080075013	US6320017 B1 (INEX PHARMACEUTICALS CORP [US]) - 20 November 2001	
US20060429911	US6316024 B1 (SEQUUS PHARM INC [US]) - 13 November 2001	
JP20140246221	JP2012158602 A (TALON THERAPEUTICS INC, et al) - 23 August 2012	
US20080075013	WO0059473 A1 (INEX PHARMACEUTICALS CORP [CA], et al) - 12 October 2000	
US20080075013	US6129914 A (PROTEIN DESIGN LABS INC [US]) - 10 October 2000	
US20080075013	US6129914 A (PROTEIN DESIGN LABS INC [US]) - 10 October 2000	
US20040788649	US6355268 B1 (ALZA CORP [US]) - 12 March 2002	
US20010896812	US6355268 B1 (ALZA CORP [US]) - 12 March 2002	
US20060429911	US6355268 B1 (ALZA CORP [US]) - 12 March 2002	\checkmark
Simple families: 1	Total citations: 568	Get next 2 families 🔻

Figure 24 Example of citation US6320017 grouped together and cited in two different US applications and an EP application. The button Group across simple family is visible when you are in the Group across extended family view.

1 The *Group across extended family* button is greyed out (inactive) when only one simple family is displayed in the CCD viewer.

9.2. Compact view

To view only the family members in the CCD Viewer

→ Click on Compact view, to return to previous view click the same button again, now displayed as Expand view.

In compact view only the applications are displayed and in Expand view, i.e. the default view, the applications and citations are displayed

9.3. Sort by country

The list of results in the CCD viewer can be sorted by their country of origin.

→ Click on Sort by country to sort accordingly

The list is sorted alphabetically according to the country code in the column CC.

9.4. Filter

The filter function adapts the results in the CCD Viewer according to two options behind the *Filter* button.

 \rightarrow To open the dropdown menu click on the *Filter* button.

You can either

→ Click on *Hide applicant citations* to remove all citations that have been cited by an applicant.

OR

→ Click *Hide applications without citations* to remove all applications from the CCD Viewer that do not have any citations.

The results are displayed accordingly. Both filters can also be activated at the same time.

EP20100011105 [®]						
Hide CCD viewer Double inspector						
CCD Viewer					Export 🔻) 🖶
Citations only view Group across	Citations only view Group across extended family Sort by country Filter - Classifications & fields searched					rched
Application Cat. Citation	n details		(1)	Hide applicant	citations	
JP20140246221 JP20	12158602 A (TALON THER	P	(2)	Hide application	ns without citations	^

Figure 25: Example of Filter drop-down menu.

Documents cited by the applicant and included in the examiner's search report are allocated the *Category D*. These citations are not hidden when the filter *Hide applicant citations* is activated.

9.5. Classifications and fields searched

The *Classifications and fields searched* button is activated by default when a new search is triggered.

The *Classifications* are displayed in the top part of the *Inspector* window. The classifications are ordered in correspondence to the order of the patent family members in the CCD viewer.

The information about the *fields searched* is in the lower part of the *Inspector* window, you may have to scroll down to the bottom page to view this part.

All <u>CPC</u> classifications have hyperlinks to a rich tooltip that appears when you click on a CPC symbol, the rich tooltip displays the definition of the classification you have selected.

Export Inspector: classifications and fields searched Classifications & fields searched Classifications Claims JP IPC F02M51/00, F02M55/02, F02M47/00, F02M47/02, F02M59/36, F02M37/00	0.	
Classifications & fields searched Classifications Claims JP IPC F02M51/00, F02M55/02, F02M47/00, F02M47/02, F02M59/36, F02M37/00	(
Claims JP IPC F02M51/00, F02M55/02, F02M47/00, F02M47/02, F02M59/36, F02M37/00	0,	
IPC F02M51/00, F02M55/02, F02M47/00, F02M47/02, F02M59/36, F02M37/00	0,	
F02M51/02, F02M59/20 CPC F02D41/3845, F02M59/06, F02M59/102, F02M59/366, F02M63/0225 FI F02M47/00&E, F02M47/02, F02M55/02&350E, F02M55/02&350U, F02M55/02&360H, F02M37/00&311A_F02M51/02&B_F02M59/20&D_F02M59/36&A, F02M59/36&A, F02M59/36&A	l, 59/36&Z	
CPC - F02M63/0225	, 22,	
MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING		
ENGINES OR PUMPS		
COMBUSTION ENGINES ; HOT-GAS OR COMBUSTION-PRODUCT ENGINE PLANTS F02		
SUPPLYING COMBUSTION ENGINES IN GENERAL, WITH COMBUSTIBLE F02M VIEWS OR CONSTITUENTS THEREOF charging such engines		
Fuel-injection apparatus carrying the fuel into cylinders by high-pressure gas F02M67/00; low-pressure fuel-injection F02M69/00		
Other fuel-injection apparatus having pertinent characteristics not provided for in groups F02M39/00 - F02M57/00 or F02M67/00; Details, component parts, or accessories of fuel-injection apparatus, not provided for in, or of interest apart from, the apparatus of groups F02M39/00 - F02M61/00 or F02M67/00; F02M63/00 225		
Fuel-injection apparatus having several injectors fed by a common pumping element, or having several pumping elements feeding a common injector; Fuel-injection apparatus having provision for cutting-out pumps, pumping elements, or injectors; Fuel-injection apparatus having provisions for variably interconnecting pumping elements and injectors alternatively		
Fuel-injection apparatus having a common rail feeding several injectors ; F02M63/0225 V225 Means for varying pressure in common rails; Pumps feeding common rails		
Show representative examples of 1st page clippings		
CPC F02D41/3845, F02M59/06, F02M59/102, F02M59/366, <u>F02M63/0225</u>		
Fields searched	۲	
EP IPC F02M		

Figure 26: Example of the rich tooltip for CPC classifications in the Inspector.

To open the images,

→ click on **Show representative examples of 1st page clippings**.



A new window opens with the representative images.



- jure 28: Example of pop-up with representative images of the selected CPC classification.
- \rightarrow To navigate through the images click on the <u>arrows</u> indicated in the image area.
- → To return to the CCD classification text, click on the link Back to classification text at the top left of the image area. Or you can close the popup by clicking on the X in the top right-hand corner.
 - 1 To enlarge the image in the popup hover over an area of the image with your mouse.

10. Printing

There are different options to print documents in the CCD application. The function of the printing varies depending from which window you want to print documents.

10.1. Printing in the CCD Viewer

The current list of simple families and patent family members in the CCD viewer are printable.

To print the results,

 \rightarrow click on the print icon in the toolbar of the *CCD Viewer*.

fiveIPoffices - CCD		
Number: EP2266537	Search Search	examples: EP1612402, US2006000447A1, JP20090214944
EP20040425480 EP20100011105®		
Hide CCD viewer	IIII <u>T</u> imeline ▼	
CCD Viewer		Export 🗸 🖶
Citations only view Compact view Sort by country Filter -		Classifications & fields searched

Figure 29: Showing print icon of the CCD viewer

Only what is displayed on the current page is printed.

10.2. Printing in the Inspector

Content displayed in the *Inspector* can be printed section-by section, page-by-page or as a full document.

10.2.1. Printing the Bibliographic data (Biblio), Description and Claims

You can print sections of the patent document when you select one of the three tabs available in the command line: *Biblio, Description* or *Claims*

For example,

→ select *Description* tab and click on the print icon (see screenshot), to print the description section of the patent document.

This is the same procedure for the **Biblio** and **Claims** tabs.

Application EP20040425480	8
Biblio Description Claims Original document >>>	
Description: EP 1612402 A1 🗸	
[0001] The present invention relates to a high-pressure variable-flow-rate pump for a fuel injection system of an internal combustion engine.	^
[0002] As is known, in modern internal combustion engines, the high-pressure pump is designed to send fuel to a common rail (the system being referred to as common-rail fuel-injection system) having a pre-set storage volume of pressurized fuel, for supplying a plurality of injectors associated to the cylinders of the engine. To obtain a proper atomization of the fuel, this must be brought to a very high pressure, in the region of 1600 bar in the conditions of maximum power of the engine. The pressure of the fuel required in the common rail is in general defined by an electronic control unit as a function of the operating conditions, i.e., the running conditions of the engine.	
Figure 30: Showing Description tab selected and Print icon in the Inspector	

10.2.2. Printing from the **Original document** view

When you select the *Original document* tab, you can print the complete patent document or single pages of the patent document.

To print the complete **Original document** that is displayed in the **Inspector**.

→ select *FULL DOC* (Full document) in the dropdown menu of the navigation bar and then click on the print icon.

All pages of the document are printed.

Application EP20040425480	
K Siblio Description Claims Original document	> »
Original document: EP 1612402 A1	
	Fill & Sign Comment
(19) Europäisches Patentamt European Patent Office Office européen des brevets	(11) EP 1 612 402 A1
(12) EUROPEAN PATE	
(43) Date of publication: 04.01.2006 Bulletin 2006/01	(51) Int Cl.: <i>F02M</i> 59/36 ^(2006.01) <i>F02M</i> 59/20 ^(2006.01) <i>F02M</i> 59/20 ^(2006.01)
(21) Application number: 04425480.3	
(22) Date of filing: 30.06.2004	
(84) Designated Contracting States: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR Designated Extension States: AL HR LT LV MK	 Satriano, Annunziata Anna 70010 Valenzano, S.P. Casamassima km 3 (IT) De Michele, Onofrio 70010 Valenzano, S.P. Casamassima km 3 (IT)
(71) Applicant: C.R.F. Società Consortile per Azioni 10043 Orbassano (Torino) (IT)	(74) Representative: Boggio, Luigi et al
 (72) Inventors: Ricco, Mario 70010 Valenzano, S.P. Casamassima km 3 (IT) De Matthaeis, Sisto Luigi 70010 Valenzano, S.P. Casamassima km 3 (IT) 	STUDIO TORTA S.r.I., Via Viotti, 9 10121 Torino (IT) Remarks: Amended claims in accordance with Rule 86 (2) EPC.
(54) A high-pressure variable-flow-rate pump f	or a fuel-injection system
(57) The high-pressure pump (7) comp ets a number of pumping elements (18) actuated in cating motion through corresponding suction an ery strokes. Each pumping element (18) is provid 3/8	an intrake pipe (10), so pplied by a low-pressure pump (9). poc ac e pipe (10) is a shut-off valve (27) ABSTRACT c ered way in synchronism with an pescription p he suction stroke of each pumping
	SEARCH REPORT
8/8	

Figure 31. Showing Print icon and FULL DOC option in the drop-down in the Inspector.

In order to print single pages of the **Original document**, navigate with the navigation arrows to the page you want to print or select the page from the dropdown menu in the navigation bar,

 \rightarrow click on the print icon in the panel display.



When the **Original document** tab is activated, the print icon is displayed in the command panel surrounding the original document to the top left.

If the print icon is not visible in the command panel, you may have to expand the *Inspector* view for it to appear.

*Make sure that the FULL DOC option is not activated when printing single pages of the Original document.

11. Exporting

To download the data displayed in the CCD viewer you have to click on the **Export** button in the upper panel of the CCD Viewer, a drop-down menu opens with the two options **Export** *in Excel format* or **Export in CSV format**.

The content downloaded corresponds to the content of the *Expanded view* (default view) in the CCD Viewer, i.e. the Compact view button is not activated. Other views are not considered for export. Exception: When the filters *Hide applicant citations* and *Hide applications without citations* are set, these are respected and the data is exported accordingly.

A maximum of 700 family members can be downloaded for the export functions.

11.1. Exporting to Excel

Before downloading the data, check that the data you want to download is displayed in the CCD viewer.

 \rightarrow Click on Export in Excel format to download the data to Excel.

fiveIPoffices - CCD	
Number: ep2266537	Search examples: EP1612402, US2006000447A1, JP20090214944
<mark>₩</mark> EP20100011105 [®]	
Hide CCD viewer	
CCD Viewer	Export 🚽 🖶
Citations only view Compact view Sort by country Filter +	Export in Excel format red
# CC Cat. Citation details	Export in CSV format
Figure 33: Displaying the Export dropdown menu wit	h the two options Export in Excel format and Export

Figure 33: Displaying the Export dropdown menu with the two options Export in Excel format and Export in CSV format.

Once the download has finished a pop-up window appears with the following options:

 \rightarrow Click **Open** to view the file without saving.

OR → Click **Save** to store the file on your computer.

OR

→ Click on *Cancel* to terminate the exporting and return to the CCD application.

You can now work with the data offline in the chosen format.

Do you want to open or save CCD-EP20100011105.xlsx from worldwide.espacenet.com ?	<u>O</u> pen	<u>S</u> ave -	<u>C</u> ancel	×
Figure 24. Example of non-up window and the entione Onen. Save and C	anaal			

Figure 34: Example of pop-up window and the options Open, Save and Cancel.

11.2. Viewing the data in Excel

The *Excel* table opens once all data is exported. The data is sorted according to the order of the data in the viewer at the time of download. The data is "de-normalised", i.e. it can contain repeating information.

11.2.1. Information about what is downloaded (Header)

The first rows of the exported data in *Excel* contain a header indicating the root application number and information about the exported data.

The export information contains details of the data extracted, i.e. the amount of simple families and family members and, in case of deviation, the number of simple families and family members are also indicated in the row: *Loaded.*

And an indication of whether the Filters Hide applicant citations or *Hide applications without citations* are *On* or *Off* at the time of download.

	А	В	С	D	E
1 2 3 4	Five Po European Patent Office /// Japu Korean Intellectual Property Office of the People's Property Office of the People's United States Patent and Trade	ffices an Patent Office /// fice /// State Intellectual Republic of China /// mark Office		Provided by the EPO	Europäisches Patentamt European Patent Office Office européen des brevets
5					
6	Application	EP2004042	5480		
7					
8	INPADOC fam	ily has approxin	nately 1 simp	le families with 8 family	y members
9	Loaded: 1 sim	ple family with	8 family mem	bers	
10					
11	Filter "Hide app	plicant citations	": Off		
12	Filter "Hide app	plications withou	ut citations": (Dff	

Figure 35: Displaying the header of the Excel table with root application number and details of the exported data.

11.2.2. Layout of the downloaded data

After the header the data in *Excel* is listed with one or more simple families which each contain one or more applications which in turn contain zero, one or more citations. The columns in the table below are displayed from left to right in Excel.

Field	Description			
FamSeqNr AppInSeqNr	Sequence number of the si Sequence number of the ap The number is not reset for	mple family, starting with 1 oplication, starting with 1 each family		
AppInCC AppInNrEPODOC	Country code of application authority Application number in EPODOC format			
AppInNrDOCDB	Application number in DOC	DB format		
AppInFilingDate CitnSeqNr	Application filing date Sequence number of the citation, starting with 1 $\frac{1}{2}$			
CitnOrigin	Phase where the citations of (empty if unknown)	priginates	se fie	
CitnType	PAT: Patent citation	citation	lds re	
PublnNr	Publication Number of citation, including kind		main er	
PubInDate	Publication date	Empty if CitType = NPL	npty i	
Applicant	Name of the applicant and the country code		f an a	
XPnumber	Citation allocated an XP	Empty if CitType =	1pplic	
NPLbiblio	Bibliographic data of the PAT			
CitnCategory	Citation category such as "A","X" or "XP";			
Passage	Short passage from the cite	ation	no cit	
Claims	The claims that have been cited.			

i If there is more than one applicant, only the first applicant is specified and et al. is appended to indicate multiple applicants.

11.3. Opening patent documents from Excel

In the columns *AppInNrEPODOC* and *PubInNr* the patent documents are hyperlinked to Espacenet.

→ To open an application in Espacenet, click on an application number in the *AppInNrEPODOC* field.

The application is opened in the Result list view of **Espacenet** where the selected document is listed.

→ To open a cited publication in *Espacenet* click on a publication number in the PublnNr field.

The publication number is opened in the bibliographic data view of *Espacenet*.

Good to know! Espacenet searches by publication numbers. Therefore when you click on an application number in the table. Espacenet will display the application in the Results list or open the publication number directly on the Bibliographic data page, if found.

i When you export a large amount of data, e.g. more than approximately 500 applications, the hyperlinks to Espacenet from Excel will not be available.

11.4. **Exporting to CSV**

Before exporting, check that the data you want to download is displayed in the CCD viewer.

→ Open the dropdown menu of the *Export* icon and select *Export in CSV format*.

Once the download is finished a popup appears with the options to: **Open**, **Save** and **Close**.

→ Select **Open** to view the exported data without saving.

OR

→ Select **Save** to store the file on your computer.

OR

→ Click on **Cancel** to terminate the exporting and return to the CCD application.

You can now work with the data offline in the chosen format.

The list in CSV format contains the field names in the first row. The other rows contain the data. There is no header in the table when you export to CSV format.

CCD-EP20040425480 cov 23
1 "FamSegNr", "ApplnSeg", "ApplnCC", "ApplnNrEPODOC", "ApplnNrDoCDB", "ApplnFilingDate", "CitnSegNr", "CitnOrigin", "CitnType", "PublnNr", "PublnDate", "Appl
2 1,1,"JP","JP20110003761U","JP2011003761",2011-07-01,,,,,,,,,
3 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,1,"National Examination","PAT","JP2004011448",2004-01-15,"NIPPON SOKEN, et al",,,"","",""
4 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,2,"National Examination","PAT","JP2004124727",2004-04-22,"DENSO CORP",,,"","","","
5 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,3,"National Examination","PAT","JPH01160164U",1989-11-07,,,,"","","",""
6 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,4,"National Examination","PAT","JPH11230005",1999-08-24,"NIPPON SOKEN, et al",,,"",""
7 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,5,"National Examination","PAT","JPH10299611",1998-11-10,"NIPPON SOKEN",,,"","",""
8 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,6,"National Examination","PAT","JP2001107776",2001-04-17,"NISSAN MOTOR",,,"",""
9 1,2,"JP","JP20090214944","JP2009214944",2009-09-16,7,"National Examination","PAT","JP2000130288",2000-05-09,"TOYOTA MOTOR CORP",,,"","",""
10 1,3,"US","US200500954255","US9542505",2005-03-31,1,"National Search Report","PAT","US4501246",1985-02-26,"BOSCH GMBH ROBERTD[DE]",,,,"",""
11 1,3,"US","US200500954255","US9542505",2005-03-31,2,"National Search Report","PAT","US5619970",1997-04-15,"LUCAS IND PLCD[GB]",,,"","",""
12 1,3,"US","US20050095425","US9542505",2005-03-31,3,"National Search Report","PAT","US6234148",2001-05-22,"SIEMENS AGD[US]",,,"","",""
13 1,3,"US","US200500954255","US9542505",2005-03-31,4,"National Search Report","PAT","US6739317",2004-05-25,"BOSCH GMBH ROBERTD[DE]",,,,"","",""
14 1,3,"US","US20050095425","US9542505",2005-03-31,5,"National Search Report","PAT","US6889656",2005-05-10,"BOSCH GMBH ROBERTD[DE]",,,"","",""
Figure 36: example of data exported in CSV format.

The columns in csv format correlate to those described in the previous Chapter Exporting to Excel.

Note: The character encoding will be UTF-8.

For large amounts of data, the system may take several seconds or minutes depending on the amount of data to download. A maximum of 700 family members can be downloaded in the CCD application.

12. Timeline

The *Timeline* is a function that opens a new panel that presents the patent documents listed in the CCD viewer in a graphical way.

12.1. Activate the Timeline

The *Timeline* button is in the upper command line.

 \rightarrow Click on the *Timeline* button in the toolbar to activate the panel.

A new window appears at the bottom of the CCD viewer.

 \rightarrow To close the timeline window click again the *Timeline* button.

If a patent document is selected prior to activating the Timeline, this document will appear in the Timeline highlighted in **bold and blue** colour by default.

12.2. Modifying the Timeline

To adjust the way documents are displayed in the Timeline, there are two options in the dropdown menu of the *Timeline* button, the *Single application mode* and *Compare mode*.

12.2.1. Single application mode

The *Single application mode* allows you to view a single application and its family members in the Timeline.

To activate this option

→ Select Single application mode from the Timeline drop-down menu and then click application you want to view.

The selected application is displayed in **bold and blue** in the Timeline.

12.2.2. Compare mode

In *Compare mode* you can select up to four documents to evaluate them in the Timeline window.

- → To activate this option select the Compare mode from the Timeline drop-down menu.
- → To choose which documents are to be compared, click on the documents you want to compare from the CCD viewer.

fiveIPoffices - CCD		
Number: EP2266537	Search exan	nples: EP1612402, US2006000447A1, JP20090214944
EP20040425480[®] 1000011105		
Hide CCD viewer	Timeline (2)	
CCD Viewer	(1) Single application mode	Export 🕶 📑
Citations only view Compact view Sort by country Filter -	(2) Compare mode	Classifications & fields searched

Figure 37: Displaying Timeline drop-down menu with the Compare mode option activated.

The applications and their family members now appear in the Timeline. Each selected application and their family members are highlighted in different colours to help differentiate between them.

You can compare up to a maximum of four applications in the *Timeline*.
 When you click on a fifth document the first selected patent application is replaced by the newly selected document.

Good to know! When the Timeline button is deactivated the mode selection(s) remain active.

12.3. Identifying the different types of documents in the Timeline

The different types of patent documents displayed in the *Timeline* window have a visual identification with different types of underlining. These help to identify the different types of documents within the Timeline window.

The following "underlining" rules apply in the *Timeline*:

- Dots > citations;
- Solid lines > applications;
- Striped lines > priorities;
- **i** Greyed patent documents in the Timeline indicate that they are 'inactive' or unselected.

A selected patent document in the CCD Viewer is automatically highlighted in **bold and blue** in the Timeline.

12.4. Timeline and Citations only view

When the *Citations only view* is activated selected citations from the CCD viewer are displayed and highlighted in **bold and black**.

fiveIPoffices -	CCD		
Number: EP1612402		examples: EP1612402, US2006000447A1, JP20090214944	
EP20040425475	3EP20	D40425480 [®] Double inspector Timeline	
CCD Viewer			Export -
Citations only view Group acros	ss extende	ad family Sort by country Filter -	Classifications & fields searched
Application	Cat.	Citation details	Claims
US20050095425		US6497216 B2 (BOSCH GMBH ROBERT [DE]) - 24 December 2002	^
US20050095425		US6497216 B2 (BOSCH GMBH ROBERT [DE]) - 24 December 2002	
US20050095425		US6439199 B2 (BOSCH REXROTH CORP [US]) - 27 August 2002	
US20050095425		US6439199 B2 (BOSCH REXROTH CORP [US]) - 27 August 2002	
US20050095425		US6311674 B1 (DENSO CORP [US]) - 6 November 2001	
US20050095425		US6311674 B1 (DENSO CORP [US]) - 6 November 2001	
US20050095425		US6253734 B1 (BOSCH GMBH ROBERT [US]) - 3 July 2001	
US20050095425		US6253734 B1 (BOSCH GMBH ROBERT [US]) - 3 July 2001	
US20050095425		US6234148 B1 (SIEMENS AG [US]) - 22 May 2001	
US20050095425		US6234148 B1 (SIEMENS AG [US]) - 22 May 2001	
JP20090214944		JP2001107776 A (NISSAN MOTOR) - 17 April 2001	
JP20090214944		JP2000130288 A (TOYOTA MOTOR CORP) - 9 May 2000	
1020090214944	_	JDH11230005 & (NIDDON SOKEN, et al) - 24 August 1999	
JP20090214944		JPH10299611 A (NIPPON SOKEN) - 10 November 1998	
US20050095425		DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998	
EP20040425480	A	DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998 * figure 1 *	1-8
US20050095425	_	US5619970 A (LUCAS IND PLC [GB]) - 15 April 1997	•
		OUS5619970 (US20050095425) JP10299611 (JP20090214944) JP200013028	8 (JP20090214944)
		OUS5619970 (US20050095425) ODE19714489 (US20050095425) ODE11230005 (JP20090214944)	OUS
			o US
			O US6234
			O US6234
			JP2001107
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1997	Q2 Q3 Q4 1998 Q2 Q3 Q4 1999 Q2 Q3 Q4 2000 Q2 Q3	Q4 2001 Q2 Q3
heline			11 <u> </u>
Cimple families: 1		Total ritations: 40	

Figure 38: Displays selected citation in CCD viewer and the same citation in the Timeline highlighted in bold and black.

i Last selected documents prior to the *Citations only view* remain in blue and bold.

12.5. Opening patent documents from *Timeline*

You can open documents directly from the *Timeline* to view them in the *Inspector*.

 \rightarrow To open in the Inspector, click on a document in the *Timeline*.

The original document is then displayed in the *Inspector*.

12.6. Using the double Inspector for documents in the Timeline

To have two documents opened simultaneously right-click on a document in the Timeline, a pop-up appears with the options *Show in Inspector 1 - Inspector 2.*

- \rightarrow Click on one of these options to open the document.
 - i By default all documents are opened in *Inspector 1*.

12.7. Maximising and minimising the Timeline view

Zoom functions can be activated to maximise or minimise the view of the Timeline.

- → To activate the zoom function in the Timeline view right-click in a free space of the Timeline and select **Zoom mode: on** in the pop-up window.
- → To deactivate the zoom function, click again in a free space of the Timeline and select Zoom mode: off.

 US5 US5 	619970 (I 619970 (I	US2005009 US2005009	95425) 95425)			 JI DE197 DE197 	PH102996 14489 (US 14489 (EP	2005009 2004042	0090214 95425) @ 5480)	9 44) JPH112	30005 (JP200	JP 190214944	2000130 ŧ)	288 (JP200	90214944)
i T										0	Q Zoom	mode: o imeline timeline	n Q	Zoom mo	de: off
Q2	Q3	Q4	1998	Q2	Q3	Q4	1999	Q2	Q3	Q4	2000	Q2	Q3	Reset tim	2001
Figur	e 39: E	Example	e of the	togal	e butto	n Zoon	ı n mode	2000	nd Zoo	uu om Me	ode: off.	1 = 0		1.11	11

12.8. Browsing Timeline

There are two possible ways to browse through the Timeline.

→ You can scroll through the Timeline by placing the mouse cursor in a free area of the Timeline and turning the mouse wheel.

OR

→ You can drag through the Timeline by placing the mouse cursor in a free area of the Timeline and holding down the left mouse-click while navigating left or right.

12.9. Re-setting the Timeline

→ To remove all documents in the Timeline, right click in a free area of the Timeline window and select *Clear timeline* from the popup window.

No more documents are displayed in the Timeline window.

				9	US682384 US682384	5 (US200 5 (US200	050095423 050095423	5) 5)	
	lear time	line	EP200 10345154 10345154	40425480 (US20050 (EP200404) 095425) 425480)		-		
Q4	2004	Q2	Q3	Q4	2005	Q2	Q3	Q4	2006

- Figure 40: Example of popup window and the Clear timeline option.
 - → To remove all indications, e.g. highlighting, bolded font, of selected documents in the Timeline, right-click in a free area of the Timeline window and select *Reset timeline* from the pop-up window.

All highlighted, coloured and bolded fonts are removed from the Timeline.

	US67	39317 (US20050095 39317 (US20050095	425) 🕥 US6 425) 🕥 US6	823845 (US20 823845 (US20	0050095425 0050095425) 🕥 US68896) 🕥 US68896	56 (US2005) 56 (US2005)	0095425) 0095425)
		27 (JP20090214944)			-	JP200501200	37	
	DE10345154	(US20050095425)			US20	0050095425		
JP2004011448	(JP20090214944)	ES20040425480T						oom mode: off
		DE20046002105T						
		AT20040425480T						lear timeline
		EP20040425480					uii R	eset timeline
	DE10345154	(EP20040425480)						
2004	Q2	Q3	Q4	2005	Q2		Q3	Q4
11	2000		1 1	1 - 11				



12.10. Deleting results in the Timeline

To remove all results from the *Timeline* you have to

→ Right-click within a clear space of the Timeline window and select *Clear timeline*.

All applications and citations are deleted from the Timeline. The Timeline is empty.

13. Inspector

The Inspector window displays classification and patent document details when you select a document from the *CCD viewer* or from the *Timeline*. All document details in the Inspector are displayed in HTML format except for the *Original document*, which is displayed in pdf.

13.1. Navigating through documents in the Inspector

As soon as document details are open in the *Inspector* a set of buttons appear in the command line. They help to navigate through particular parts of a patent document. And help you to navigate through the applications and citations displayed in the CCD viewer.

Application ES20040425480T					
« < Biblio Description Claims Original document > >					
Bibliographic data: ES 2268614 (T3)					
Una bomba de caudal variable de alta presion para un sistema de inyeccion de combustible.					
Publication date:	16 March 2007				
Inventor(s):	tor(s): RICCO MARIO [IT]; DE MATTHAEIS SISTO LUIGI [IT]; SATRIANO ANNUNZIATA ANNA [IT]; DE MICHELE ONOFRIO [IT]				
Applicant(s)	FIAT RICERCHE				

Figure 42: Indicating the command line in the Inspector

13.2. Navigation arrows

The single and double navigation arrows to the left and right of the command line in the inspector enable you to browse through the list of applications and citations displayed in the CCD viewer document for document.

→ Click on the left <u>double</u> arrow to go up the list of applications or click the right double arrow to go down the list of applications.

OR

→ Click on the left single arrow to go up the list of citations or click the right single arrow to go down the list of citations.

Application ES20040425480T				
« < Biblio Description Claims Original document	> »			
Bibliographic data: ES 2268614 (T3)				

Figure 43: Indicating the single and double navigation arrows.

13.3. Bibliographic details (Biblio)

The bibliographic data is displayed in HTML format. The first time a document is opened in the Inspector, the *Biblio* (short for bibliographic data) button is activated by default and the bibliographic details are displayed.



Figure 44: Biblio button activated in the Inspector.

→ Click on the *Biblio* button to open details The "Biblio" button is highlighted in yellow.

You may have to scroll in the window to view all content.

13.4. Description and Claims

The description and claims buttons open the dossier content in HTML format.

- \rightarrow To open the description part of the dossier click on the **Description** button.
- \rightarrow To open the claims part of the dossier click on *Claims* button.



Figure 45 Displaying the Description and Claims buttons. The Description button is activated and highlighted in yellow.

You may have to scroll in the window to view all content.

13.5. Opening "also published as" documents from the Inspector

In the Inspector window you can directly access the dossier content of a simple patent family member via the link *also published as* in the header next to the patent document number.

To activate the link and open the dropdown menu,

→ click in the area *also published as*.



In drop down menu a list of the simple patent family members appears.

US4501246.A (US20050095425)	- Select publication -	
« < Biblio Description Claims Original document	DE3128975 EP0070558	
Bibliographic data: US 4501246 (A)	US4501246 BR8204235	

Figure 47: Example of the drop-down menu with a list of the simple patent family members

To open one of the documents,

 \rightarrow click on one of the publication numbers in the dropdown menu.

The content of the selected document is displayed in the inspector window.

13.6. Viewing the Original document

The **Original document** is the patent document as published by the corresponding patent authority.

To open the Original document in the Inspector

→ click on the **Original document** button in the command line

The document is opened in pdf format.

13.6.1. Navigating through the *Original document*

There are navigation functions in the *Inspector* especially to view the pages or sections of the Original document. The navigation functions are in the navigation bar at the bottom of the Inspector view.

To navigate through the document page-by-page,

→ click on the single page navigation arrows to go left (backwards) or right (forwards) in the document.

US4501246.A (US20050095425)	- Select publication - 🗸
« < Biblio Description Claims Original document > »]
Original document: US 4501246 (A)	
	Fill & Sign Comment
United States Patent [19] - Leblanc	[11] Patent Number: 4,501,246 [45] Date of Patent: Feb. 26, 1985
 [54] FUEL INJECTION PUMP [75] Inventor: Jean Leblanc, Lyons, France [73] Assignee: Robert Bosch GmbH, Stuttgart, Fed. Rep. of Germany [21] Appl. No.: 397,712 [22] Filed: Jul. 13, 1982 [30] Foreign Application Priority Data 	4.398,518 8/1983 Leblanc et al. <u>123/458</u> 4.398,519 8/1983 Tissot et al. <u>123/449</u> FOREIGN PATENT DOCUMENTS 53-80803 7/1978 Japan <u>417/462</u> Primary Examiner—William L. Freeh Assistant Examiner—Paul F. Neils Attorney, Agent, or Firm—Edwin E. Greigg
Jul. 22, 1981 [DE] Fed. Rep. of Germany 3128975 [51] Int. CL. ³ F02M 39/00 [52] U.S. Cl. 123/449; 123/458; 417/487; 417/519 158 [58] Field of Search 417/487; 519, 221, 244, 417/253, 462, 505; 123/449, 450, 458, 502, 500, 506 [56] References Cited U.S. DATENTE DOCUMENTS	A fuel injection pump is proposed in which the fuel metering during the intake stroke of the pump pistons of the fuel injection pump is effected via a pressure con- duit, the cross section of which is controlled first by an electrically controlled switching valve and second by means of the control of a fuel supply opening of the pressure conduit by means of a control groove, which communicates with the pump work chamber and, as part of a distributor shaft, is guided in synchronism with
2.077.259 4/1937 Planiol 123/451 2.356.627 8/1944 Skarcdoff 123/451 3.304.668 10/1968 Eheim et al. 123/449 3.598.507 8/1971 Voit et al. 417/505 4.073.275 2/1978 Hofer et al. 123/449 4.378.775 4/1983 Straubel et al. 123/458 4.382,751 5/1983 Potter 123/458 4.385,610 5/1983 Leblanc 123/449	rpm. By means of the oblique disposition of the control groove and the possibility of an electrically controlled longitudinal displacement of the distributor shaft, the angular position at which injection takes place can be embodied in an arbitrary manner in combination with a switching valve. 5 Claims, 2 Drawing Figures
	ISTRACT V D

Figure 48: Indicating the page-by-page navigation arrows in the navigation bar.

To go to the beginning or the end of the document you are viewing,

→ click on the <u>left forwarding</u> (beginning of the document) arrow or to the <u>right</u> <u>forwarding</u> arrow (end of the document).

	Page 1/5 - ABSTRACT		M	
Eiguro 40, Indioa	ting the ferwarding arrows in the n	ovigation bo		

Figure 49: Indicating the forwarding arrows in the navigation bar.

Tip! When you hover over the arrows a tooltip indicates the functionality of them.

In the navigation bar it is also possible to choose which sections of the document you want to view, i.e. *Abstract*, *Description*, *Claims*, *Drawings*, *Full document (FULL DOC)* and if available the *Search report*, by using the drop-down menu in the navigation bar.

To open the dropdown menu,

→ click on the downward arrow and select the page or section of the document you want to view.

The selected section of the document is opened in the *Inspector*.



Figure 50: Example of the drop-down menu in the navigation bar

i	Make sure that the FULL DOC section is not open, if you want to print single
	pages.

14. Common Error messages

The following table is an overview of the most common error messages in the CCD application.

Error message	Definition	Solution
! Unable to complete request with empty input	Message appears when no search criteria is entered in the Number field	Check and enter a search criteria
 ! No results found that match search criteria! ! The following error occurred: Bad Request (400) 	Message appears when no results are found Message appears when there is a server availability problem	Enter alternative search criteria Wait a short while and/ or refresh the browser. Try to re-connect. If problem persists contact patentinformation@eno.org
! The call was stopped and the connection closed!	Message appears when a process/download takes too long. Reasons: server availability, size of data to download.	Refresh browser then re- enter your query.
! Invalid operand to "in": Object expected.	Message appears when the wrong command has been entered.	Check that the command does not contain special characters or choose a different command.

If a problem persists, you can contact <u>patentinformation@epo.org</u>.

14.1. Retrieval of large data sets

It can take several seconds to download a large set of data. This can be due to the retrieval of a large number of documents and data content

During the download, you will see the information window **Searching.** You can either wait for the result to appear or if the download takes too long you can click on **Cancel** in the window. If you want to re-start the download refresh your browser first. Alternatively you can try to minimise the search by using the settings, see <u>Chapter 2. Setting CCD interface</u>.

Searching	
Please wait	
	Cancel

Figure 51: Example of the Searching information window.

14.2. Downloading

If a download is taking too long you will see the ticking image *Fetching data from server*, you can click on *Cancel process* to stop the download.

Solution: Refresh your browser and try the download again. Or, if possible, you can minimise the amount of data to download by excluding simple families from the CCD Viewer.

- → To reduce the number of simple families, you have to trigger the same search again and pre-select the simple families from the *Get next family* button.
 - **i** It is not possible to de-select simple families that are already displayed in the **CCD Viewer**.



Figure 52: Example of the "ticking" image and the command Cancel process.

15. Abbreviations and terminology

The general terms related to patents used within the CCD application have been selected within the standard nomenclature used in the patent community. For further information there is a glossary in the IP5 Statistics Report available on the <u>fivelPoffices</u> website.

Also published as is a synonym for the simple patent family or the equivalents

Biblio is the abbreviation of Bibliographic data (in the CCD application only)

Cat. is the abbreviation of Category. Categories indicate the relevance of citations in the search report.

CC an abbreviation of Country code

CCD is the abbreviation of Common Citation Document

CPC is the abbreviation of Cooperative Patent Classification

CQL is the abbreviation of Contextual Query Language

CSV is a format for exporting and is the abbreviation of Comma separated values

DOCDB is the EPO worldwide bibliographic database

EC is the abbreviation of European Classification

EP is the abbreviation of a European Patent

FI is the abbreviation of F-Index, a Japanese classification assigned by the JPO

FT is the abbreviation of F-term, a Japanese classification system assigned by the JPO

INPADOC is the EPO worldwide legal status database

IP5 is the name given to cooperation of the world's five largest patent authorities (SIPO, EPO, JPO, KIPO and USPTO).

IPC is the abbreviation of International Patent Classification

Original document is the patent application as published in pdf.

PCT is the abbreviation of the Patent Cooperation Treaty

NPL is the abbreviation of Non-patent literature