



Europäisches  
Patentamt  
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Patent Office  
Office européen  
des brevets

# Search matters 2014

The Common Citation Document (CCD) web application: how to benefit from the search results of patent offices



Pietro Rini

Examiner – Civil Engineering and Thermodynamics

The Hague, 3-4 April 2014

# Pietro Rini



- § 2001 - Aerospace Engineering -University of Pisa (IT)
- § 2002 - Diploma Course in Fluid Dynamics - von Karman Institute for Fluid Dynamics (BE)
- § 2006 - PhD in Applied Science - Free University of Brussels & von Karman Institute for Fluid Dynamics (BE)

Joined the EPO in 2006 :

- § Examiner (F01D; F02C; F02K; F03D; F03B)
- § Assistant to the Vice President DG1
- § [prini@epo.org](mailto:prini@epo.org)

# Outline

1. Facts & Main functionalities
2. Online access
3. The input mask
4. The PCT/ISA/210 model
5. CCD Initial Output
6. Features of the CCD web application :
  - § CCD Viewer
  - § The Inspector
  - § The Double Inspector
  - § The Timeline
  - § Data Coverage

# Common Citation Document

Number: EP1612402 Search examples: EP1612402, US2006000447A1, JP20090214944

EP20040425480

Hide CCD viewer Single inspector Timeline

CCD Viewer Application EP20040425480

Citations only view Compact view Sort by country Filter Classifications & fields searched

#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP20040425480 (EP04425480) - 30 June 2004	
			National Search Report	
	X		DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 Page 3, paragraph 19 Figure 1	1-3
	X		US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985 Column 2, line 22 - column 2, line 23 Figure 1	1-5
	X		EP0270720 A1 (RENAULT [FR]) - 15 June 1988 Page 5, line 12 - page 6, line 5 Figure 1, 6	1,4-8
	A		EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989 Figure 1	1-8
	A		DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998 Figure 1	
2	AT		Application N° AT20040425480T (AT0425480T) - 30 June 2004	
3	DE		Application N° DE200460002105T (DE602004002105) - 30 June 2004	

Timeline © SINGLE

Simple families: 1 Total family members: 7

Application EP20040425480

Full document: EP 1612402 A1

Application JP20050120087

Full document: JP 2006017109 (A)

fiveIPoffices - CCD

Fig. 1

Page 1/8 - ABSTRACT

Page 1/7 - ABSTRACT

# Facts

- § Common Citation Document (CCD) was initially proposed by the **Trilateral Industry** and the **Trilateral Offices (EPO, JPO, USPTO)** developed a first version.
- § **The IP5 Offices (EPO, KIPO, SIPO, JPO, USPTO)** developed the latest version of the CCD.
- § CCD offers consolidated access to **citation data from IP5 Offices** combining a priority-based family with the cited prior art for each family application.
- § CCD is **based on published data** or on data made publicly available by Patent Offices.
- § CCD involves the commitment of the IP5 Offices to engage into the **exchange of the relevant citation data**.

## Main functionalities

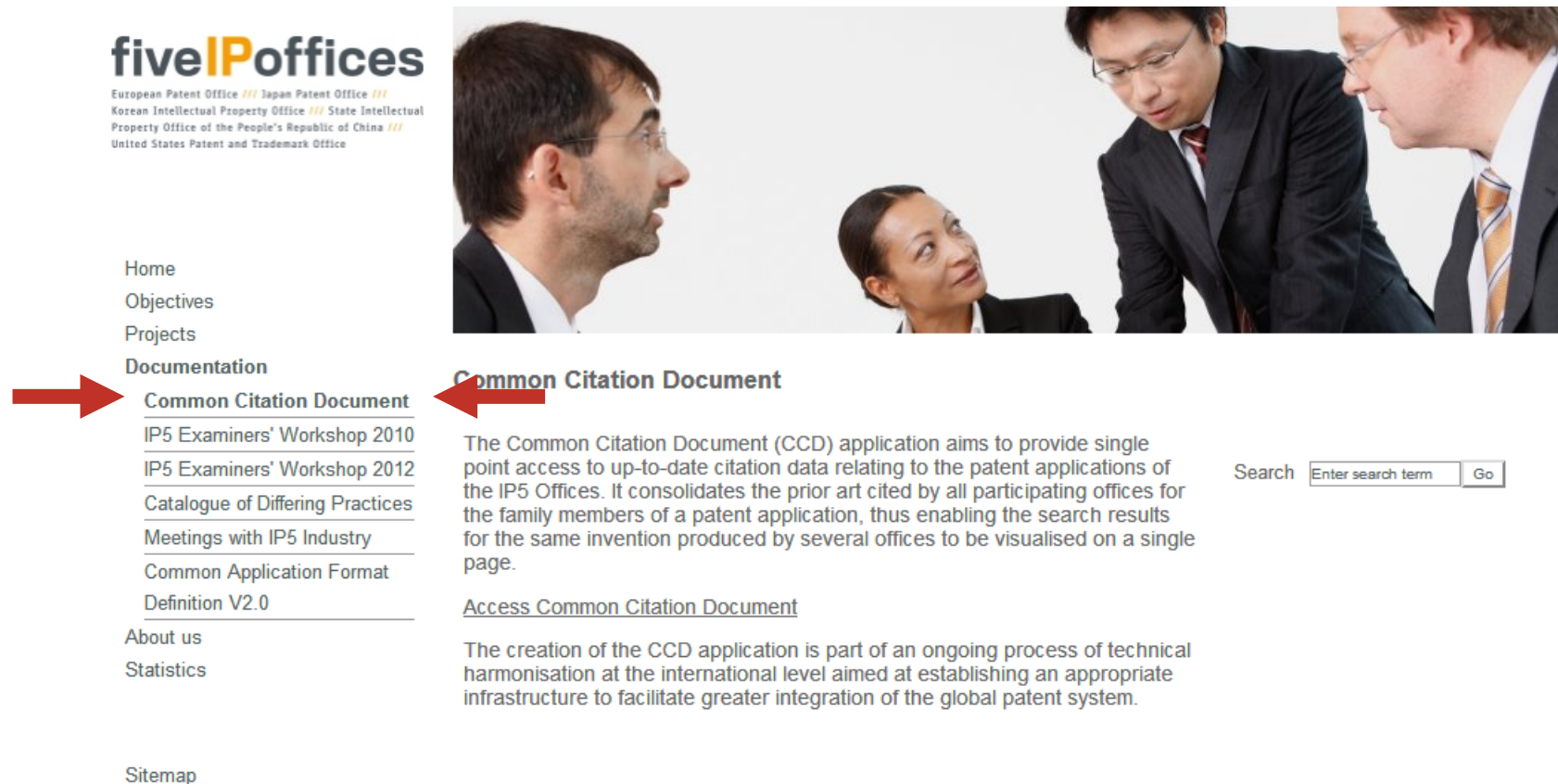
- § The CCD can be invoked with domestic application number formats for most IP5 applications after 2005 and also suggests possible matching applications.
- § CCD has a broader data coverage than the IP5 Offices, including relevant citation data made available to EPO by any IPO.
- § Identifies equivalent citations in the citation view by citation grouping.
- § Supports an ergonomic double viewing.
- § Comprehensive User Guide and Online Help available.

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  - § Data Coverage

# Online access

§ CCD is available from of the IP5's home page ([www.fiveipoffices.org](http://www.fiveipoffices.org))



**fiveIPoffices**  
European Patent Office /// Japan Patent Office ///  
Korean Intellectual Property Office /// State Intellectual  
Property Office of the People's Republic of China ///  
United States Patent and Trademark Office

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Documentation  
Common Citation Document  
IP5 Examiners' Workshop 2010  
IP5 Examiners' Workshop 2012  
Catalogue of Differing Practices  
Meetings with IP5 Industry  
Common Application Format  
Definition V2.0  
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**Common Citation Document**

The Common Citation Document (CCD) application aims to provide single point access to up-to-date citation data relating to the patent applications of the IP5 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 visualised on a single page.

[Access Common Citation Document](#)

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.

Search

§ or directly from the URL <http://ccd.fiveipoffices.org>

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# The input mask

§ The input mask accepts domestic application number formats for most Trilateral applications after 2005, e.g. EP09151293



Number:  Search examples: EP1612402, US2006000447A1, JP20090214944

§ A list of compatible input numbers is given below

Input number	CCD compatible formats
Publication number (country code)	WO2011018055 - WO 2011 018055
Publication number (no country code)	2011,018,055 - 2011018055
Publication number (kind code)	EP1002935 A1 - EP1002935A1
Priority document (international)	WO2007JP3287 - WO,2007,JP,73287
Priority document (national)	JP20070041489 - JP 2007 004 1489
Application number (international);	PCT/US2005/035078
Application number (national);	09/667,353

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  - § The Timeline
  - § Data Coverage

# The PCT/ISA/210 model

INTERNATIONAL SEARCH REPORT		International application No. PCT/US00/02906															
<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : G10L 15/18 US CL : 704/257																	
<b>B. FIELDS SEARCHED</b> U.S. : 704/257, 256, 255, 251, 270, 275 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, USPT, JPAB, EPAB, DWPI, TDBD																	
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y, P</td> <td>US 5,983,221 A (CHRISTY) 09 November 1999, see Fig. 2.</td> <td>1-22</td> </tr> <tr> <td>Y</td> <td>HEMPHILL, CHARLES T. et al. Surfing the Web by Voice. ACM Multimedia 95. Pages 1-11.</td> <td>1-22</td> </tr> <tr> <td>Y, P</td> <td>US 5,960,399 A (BARCLAY et al.) 28 September 1999, see abstract.</td> <td>1-22</td> </tr> <tr> <td>A</td> <td>US 5,732,216 A (LOGAN et al.) 24 March 1998, see Fig. 1.</td> <td>1-22</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y, P	US 5,983,221 A (CHRISTY) 09 November 1999, see Fig. 2.	1-22	Y	HEMPHILL, CHARLES T. et al. Surfing the Web by Voice. ACM Multimedia 95. Pages 1-11.	1-22	Y, P	US 5,960,399 A (BARCLAY et al.) 28 September 1999, see abstract.	1-22	A	US 5,732,216 A (LOGAN et al.) 24 March 1998, see Fig. 1.	1-22
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.															
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A	US 5,732,216 A (LOGAN et al.) 24 March 1998, see Fig. 1.	1-22															
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																	
<table border="1"> <tbody> <tr> <td>* Special categories of cited documents:</td> <td>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>*A* document defining the general state of the art which is not considered to be of particular relevance</td> <td>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>*B* earlier document published on or after the international filing date</td> <td>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>*A* document member of the same patent family</td> </tr> <tr> <td>*O* document referring to an oral disclosure, use, exhibition or other means</td> <td></td> </tr> <tr> <td>*P* document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </tbody> </table>			* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	*B* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family	*O* document referring to an oral disclosure, use, exhibition or other means		*P* document published prior to the international filing date but later than the priority date claimed				
* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention																
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*B* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art																
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*O* document referring to an oral disclosure, use, exhibition or other means																	
*P* document published prior to the international filing date but later than the priority date claimed																	
Date of the actual completion of the international search 20 MAY 2000		Date of mailing of the international search report 11 JUL 2000															
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230		Authorized officer RICHEMOND DORVIL <i>Joni Hill</i> Telephone No. (703) 305-3900															

Classification of S-M

Fields searched

Documents considered to be relevant

# Outline

1. Facts & Main functionalities
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  - § CCD Viewer
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# CCD Initial Output

The screenshot displays the 'CCD Viewer' interface for patent EP20090151293. The main window is divided into two panes. The left pane, titled 'Citations only view', shows a list of citations with columns for '#', 'CC', 'Cat.', 'Citation details', and 'Claims'. The right pane, titled 'Inspector: classifications and fields searched', shows the 'Classifications' and 'Fields searched' sections.

**Documents considered to be relevant**

**Fields searched**

**Inspector(s)**

**CCD VIEWER**

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## How to we get there

**Number:** EP1612402      Search examples: EP1612402, US60600447A1, JP20090214944

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# CC Cat. Citation details Claims

	#	CC	Cat.	Citation details	Claims
Application N° EP20040425480 (EP04425480) - 30 June 2004	1	EP			
National Search Report					
X DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 Page 3, paragraph 19 Figure 1					1-3
X U54501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985 Column 2, line 22 - column 2, line 23 Figure 1					1-5
X EP0270720 A1 (RENAULT [FR]) - 15 June 1998 Page 5, line 12 - page 6, line 5 Figure 1, 6					1,4-8
A EP0299337 A2 (IVECO FIAT [IT], et al.) - 18 January 1999 Figure 1					1-8
A DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998 Figure 1					1-8
2 AT Application N° AT20040425480T (AT04425480) - 30 June 2004					
3 DE Application N° DE200460002105T (DE602004002105) - 30 June 2004					

Application EP20040425480

Biblio Description Claims Original document

Full document: EP 1612402 A1

(16) European Patent Office  
Office européen des brevets  
(17) EP 1 612 402 A1

(13) EUROPEAN PATENT APPLICATION

(43) Date of publication:  
04/07/2004 Bulletin 2004/01

(71) Applicant number: 0425480.3

(72) Inventors:  
• Rocco, Mario  
NITA Varesano,  
S.P.A. Caserma n° 3 (IT)  
• De Mattia, Stefano  
NITA Varesano,  
S.P.A. Caserma n° 3 (IT)

(73) Representative: Boggi, Luigi  
STUDIO TORTA & C.  
Via Verdi 9  
10121 Torino (IT)

(54) A high-pressure variable-flow-rate pump for a fuel-injection system

(57) The high-pressure pump (7) comprises a number of pumping elements (25) actuated in reciprocating motion through corresponding intake and delivery intakes. Each pumping element (18) is provided with a corresponding intake valve (25), in communication with an intake pipe (13), supplied by a low-pressure pump (8). Arranged on the intake pipe (13) is a shut-off valve (27) controlled in a clamped way in synchronism with an inlet port (28, 32) of the suction-chamber of each pumping element (18).

Fig. 1

Printed by Janssen-Patzsch (D)

Application JP20050120087

Biblio Description Claims Original document

Full document: JP 2006017109 (A)

(11) 日本特許庁長官(PT) (12) 公開特許公報(A) (13) 特許出願番号

特開2006-17109  
P2006-17109A  
平成十七年四月十三日(2006.4.13) 公表

発明の名称: 高圧可変流量率ポンプ装置

発明者: 藤田孝太郎、山本浩二、三浦雅之、小島大輔

代理人: 丸根啓祐、佐々木隆夫

発明の要旨: 燃料供給システムにおいて、コストを低減し、従来の燃料ポンプ装置と比較して、構造が簡単で信頼性が高いことを特徴とする。図１は、燃料ポンプ装置の一実施形態を示す。この装置は、複数の噴射バルブ（２５）と、これらに連通する吸入パイプ（１３）と、吸入パイプ（１３）上には閉鎖弁（２７）と、各噴射バルブ（２５）には吸入弁（２８）とを備えている。また、吸入パイプ（１３）には、低圧ポンプ（８）からの燃料を送るための開口部（２８、３２）がある。

【図】  
図１は、燃料ポンプ装置の一実施形態を示す。この装置は、複数の噴射バルブ（２５）と、これらに連通する吸入パイプ（１３）と、吸入パイプ（１３）上には閉鎖弁（２７）と、各噴射バルブ（２５）には吸入弁（２８）とを備えている。また、吸入パイプ（１３）には、低圧ポンプ（８）からの燃料を送るための開口部（２８、３２）がある。

Simple families: 1      Total family members: 7

# CCD Viewer : Expanded View

§ The citations are also grouped by the phase at which they were retrieved, here "National Search Report", and "National Examination", but also e.g. "Applicant"

EP20090151293

Hide CCD viewer Double inspector Timeline

CCD Viewer

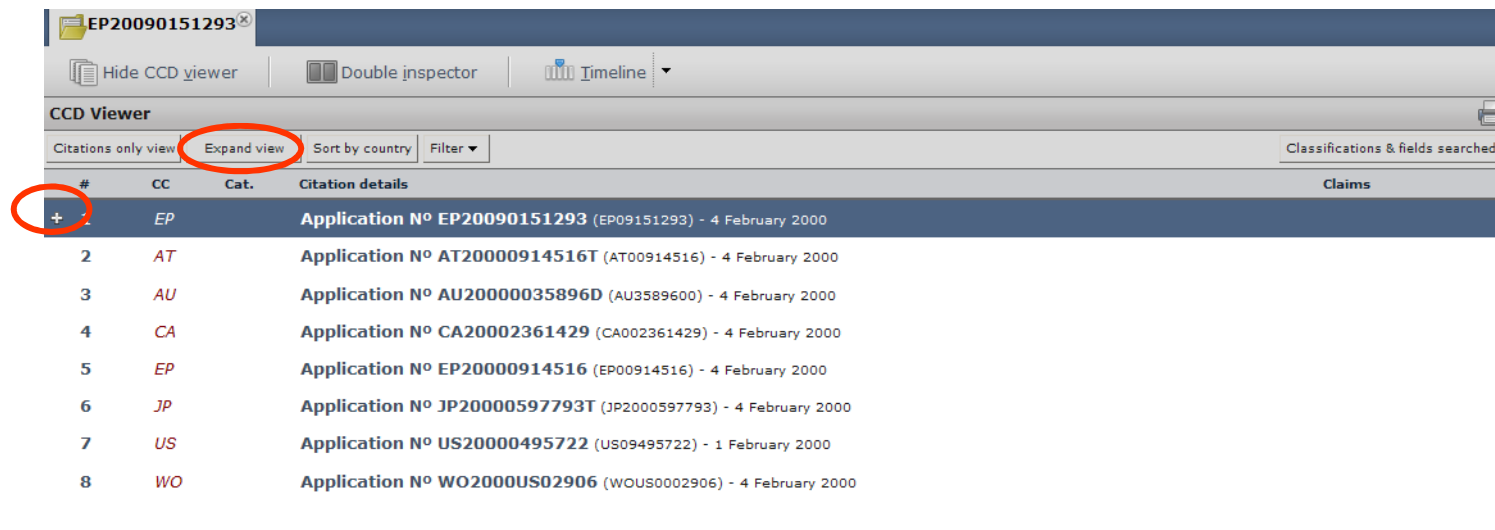
Citations only view **Compact view** Sort by country Filter

Classifications & fields searched

#	CC	Cat.	Citation details	Claims
1	EP		<b>Application N° EP20090151293</b> (EP09151293) - 4 February 2000	
		National Search Report		
	X		<b>PADIS - An automatic telephone switchboard and directory information system</b> Authors: Kellner A, Rueber B, Seide F, Tran B-H Publication data: SPEECH COMMUNICATION, 1997 1001 ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL Source info: Vol: 23, Nr: 1-2, Page(s): 95 - 111 Abstract Page 105, column R, paragraph L - page 106, column L, paragraph 3 Figure 8	1
		National Examination		
			<b>WO9821679 A1 (MICROSOFT CORP [US])</b> - 22 May 1998	
2	AT		<b>Application N° AT20000914516T</b> (AT00914516) - 4 February 2000	
3	AU		<b>Application N° AU20000035896D</b> (AU3589600) - 4 February 2000	
4	CA		<b>Application N° CA20002361429</b> (CA002361429) - 4 February 2000	
5	EP		<b>Application N° EP20000914516</b> (EP00914516) - 4 February 2000	
		National Search Report		
			<b>PADIS - An automatic telephone switchboard and directory information system</b> Authors: Kellner A, Rueber B, Seide F, Tran B-H Publication data: SPEECH COMMUNICATION, 1997 1001 ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL Source info: Vol: 23, Nr: 1-2, Page(s): 95 - 111 [X] 1, 6, 11, 16, 22 Abstract Page 105, column R, paragraph L - page 106, column L, paragraph 3 Figure 8	
		Non-patent literature	See also references of WO 0046792A1	
6	JP		<b>Application N° JP20000597793T</b> (JP2000597793) - 4 February 2000	
7	US		<b>Application N° US20000495722</b> (US09495722) - 1 February 2000	
		National Search Report		

# CCD Viewer: Compact View

§ All the citations are hidden; click "expand view" or the "+" to switch to compact view

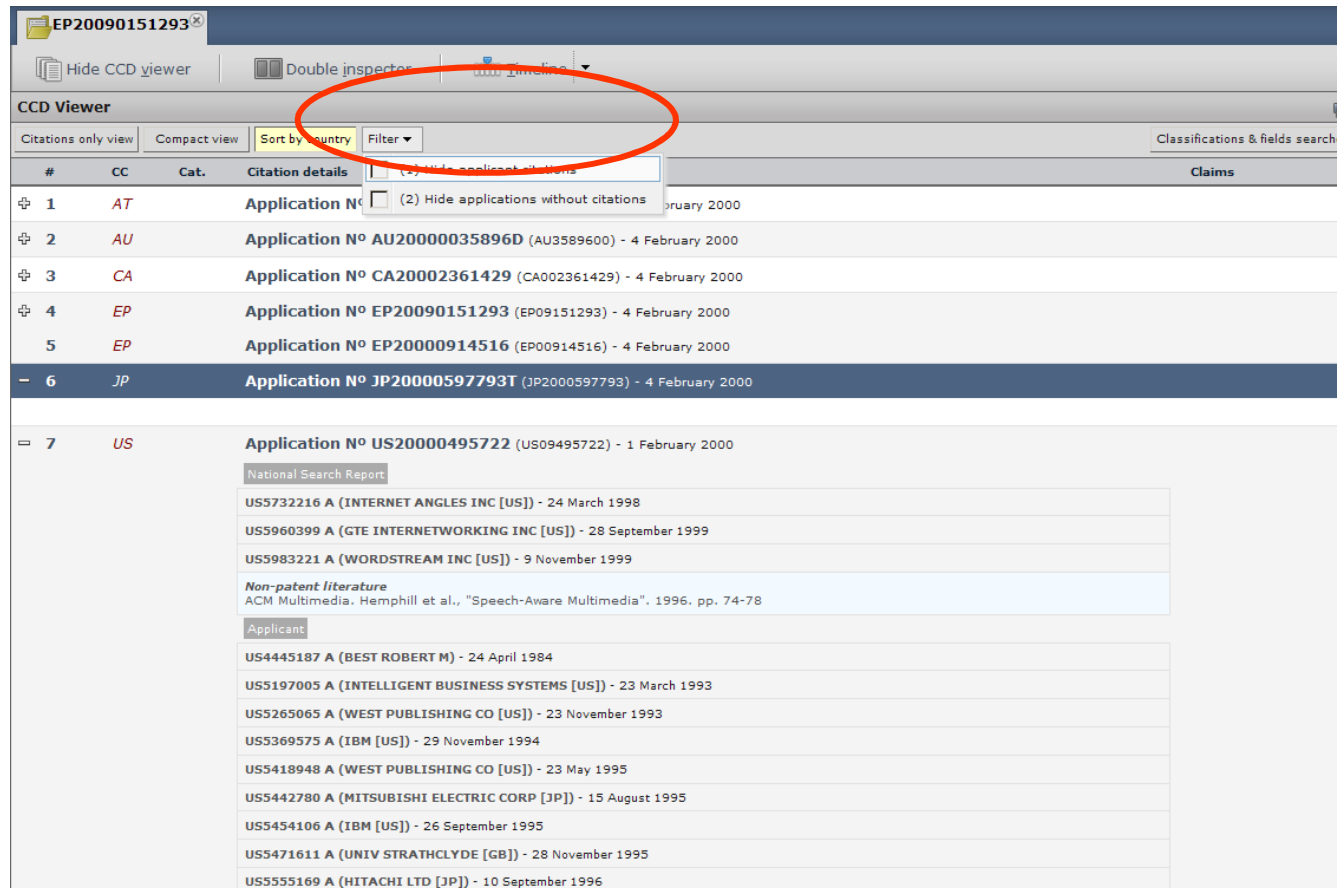


The screenshot shows the CCD Viewer interface for patent EP20090151293. The top bar includes buttons for 'Hide CCD viewer', 'Double inspector', and 'Timeline'. Below this, the 'CCD Viewer' section has tabs for 'Citations only view' and 'Expand view' (circled in red). A 'Sort by country' dropdown and a 'Filter' dropdown are also present. The main table displays citation details for various countries, with the first row circled in red and showing a '+' icon.

#	CC	Cat.	Citation details	Claims
+	EP		Application N° EP20090151293 (EP09151293) - 4 February 2000	
2	AT		Application N° AT20000914516T (AT00914516) - 4 February 2000	
3	AU		Application N° AU20000035896D (AU3589600) - 4 February 2000	
4	CA		Application N° CA20002361429 (CA002361429) - 4 February 2000	
5	EP		Application N° EP20000914516 (EP00914516) - 4 February 2000	
6	JP		Application N° JP20000597793T (JP2000597793) - 4 February 2000	
7	US		Application N° US20000495722 (US09495722) - 1 February 2000	
8	WO		Application N° WO2000US02906 (WOUS0002906) - 4 February 2000	

# CCD Viewer : Filtering (1/2)

§ It is possible to filter our applications without citations (here the JP), and applicant's citation (here from the US application) using the filters



The screenshot shows the CCD Viewer interface for application EP20090151293. The 'Filter' dropdown menu is highlighted with a red circle. The table below lists the applications and their details.

#	CC	Cat.	Citation details	Claims
1	AT		Application N° (2) Hide applications without citations	
2	AU		Application N° AU20000035896D (AU3589600) - 4 February 2000	
3	CA		Application N° CA20002361429 (CA002361429) - 4 February 2000	
4	EP		Application N° EP20090151293 (EP09151293) - 4 February 2000	
5	EP		Application N° EP20000914516 (EP00914516) - 4 February 2000	
6	JP		Application N° JP20000597793T (JP2000597793) - 4 February 2000	
7	US		Application N° US20000495722 (US09495722) - 1 February 2000	

Below the table, the details for the US application are shown, including a National Search Report and a list of citations.

**National Search Report**

- US5732216 A (INTERNET ANGLES INC [US]) - 24 March 1998
- US5960399 A (GTE INTERNETWORKING INC [US]) - 28 September 1999
- US5983221 A (WORDSTREAM INC [US]) - 9 November 1999

**Non-patent literature**

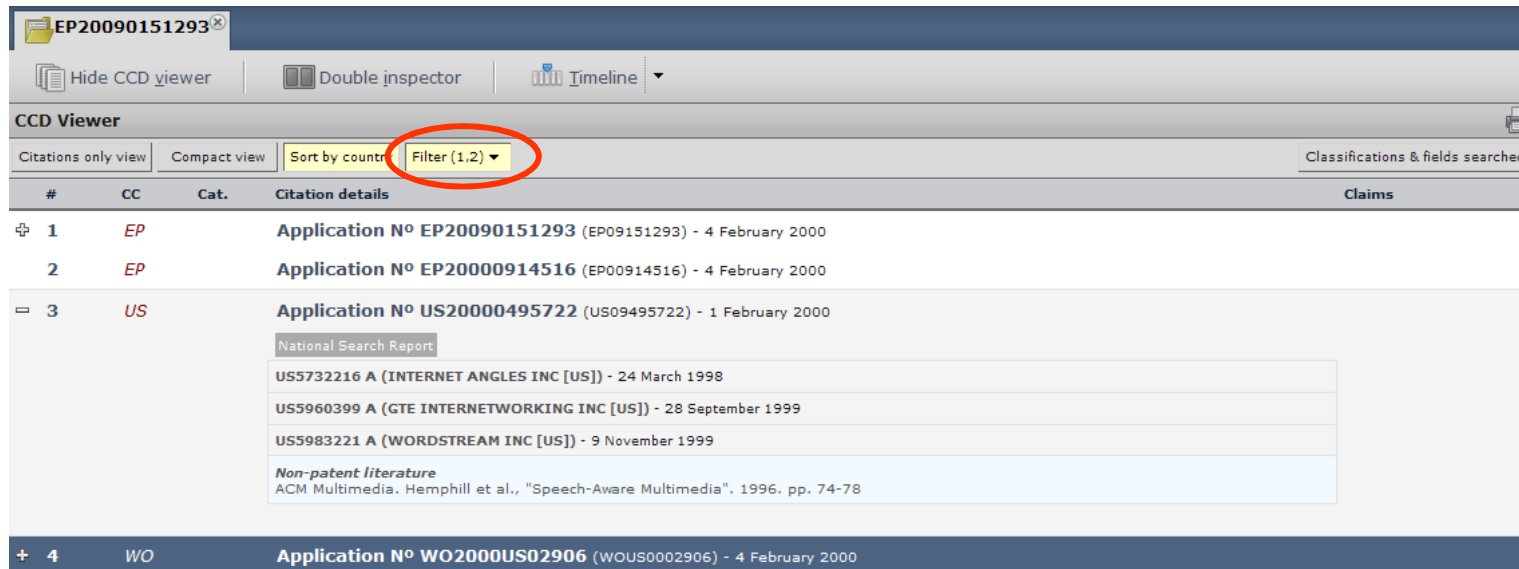
ACM Multimedia. Hemphill et al., "Speech-Aware Multimedia", 1996, pp. 74-78

**Applicant**

- US4445187 A (BEST ROBERT M) - 24 April 1984
- US5197005 A (INTELLIGENT BUSINESS SYSTEMS [US]) - 23 March 1993
- US5265065 A (WEST PUBLISHING CO [US]) - 23 November 1993
- US5369575 A (IBM [US]) - 29 November 1994
- US5418948 A (WEST PUBLISHING CO [US]) - 23 May 1995
- US5442780 A (MITSUBISHI ELECTRIC CORP [JP]) - 15 August 1995
- US5454106 A (IBM [US]) - 26 September 1995
- US5471611 A (UNIV STRATHCLYDE [GB]) - 28 November 1995
- US5555169 A (HITACHI LTD [JP]) - 10 September 1996

## CCD Viewer : Filtering (2/2)

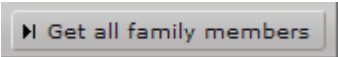
§ The JP application, and the applicant's citations of the US application are hidden



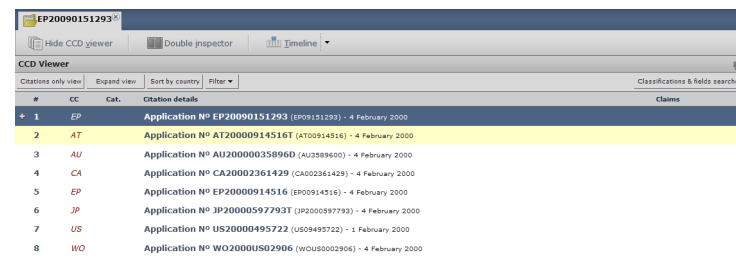
The screenshot shows the CCD Viewer interface for application EP20090151293. The interface includes a toolbar with options like 'Hide CCD viewer', 'Double inspector', and 'Timeline'. Below the toolbar, the 'CCD Viewer' section shows a list of applications. The 'Filter (1,2)' dropdown is circled in red, indicating that the JP application and its citations are hidden.

#	CC	Cat.	Citation details	Claims
+	1	EP	Application N° EP20090151293 (EP09151293) - 4 February 2000	
	2	EP	Application N° EP20000914516 (EP00914516) - 4 February 2000	
=	3	US	Application N° US20000495722 (US09495722) - 1 February 2000 National Search Report US5732216 A (INTERNET ANGLES INC [US]) - 24 March 1998 US5960399 A (GTE INTERNETWORKING INC [US]) - 28 September 1999 US5983221 A (WORDSTREAM INC [US]) - 9 November 1999 Non-patent literature ACM Multimedia, Hemphill et al., "Speech-Aware Multimedia", 1996, pp. 74-78	
+	4	WO	Application N° WO2000US02906 (WOUS0002906) - 4 February 2000	

# CCD Viewer : Family members

§ By default CCD will retrieve the simple family. It is however possible to retrieve extended family and to view all simple families and their members; this requires clicking the  button at the bottom of the CCD Viewer.

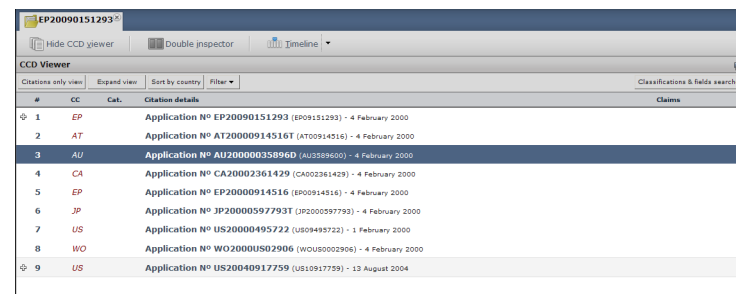
- In this example the simple family has 8 members



The screenshot shows the CCD Viewer interface for the patent EP20090151293. The 'Citation details' tab is selected, displaying a list of 8 family members. The first member is highlighted in yellow.

#	CC	Cat.	Citation details
1	EP		Application N° EP20090151293 (EP09151293) - 4 February 2000
2	AT		Application N° AT20000914516T (AT00914516) - 4 February 2000
3	AU		Application N° AU2000035896D (AU3589600) - 4 February 2000
4	CA		Application N° CA20002361429 (CA002361429) - 4 February 2000
5	EP		Application N° EP20000914516 (EP00914516) - 4 February 2000
6	JP		Application N° JP20000597793T (JP20000597793) - 4 February 2000
7	US		Application N° US20000495722 (US09495722) - 1 February 2000
8	WO		Application N° WO20000502906 (WO00002906) - 4 February 2000

- getting all the family members adds a family, with a single member

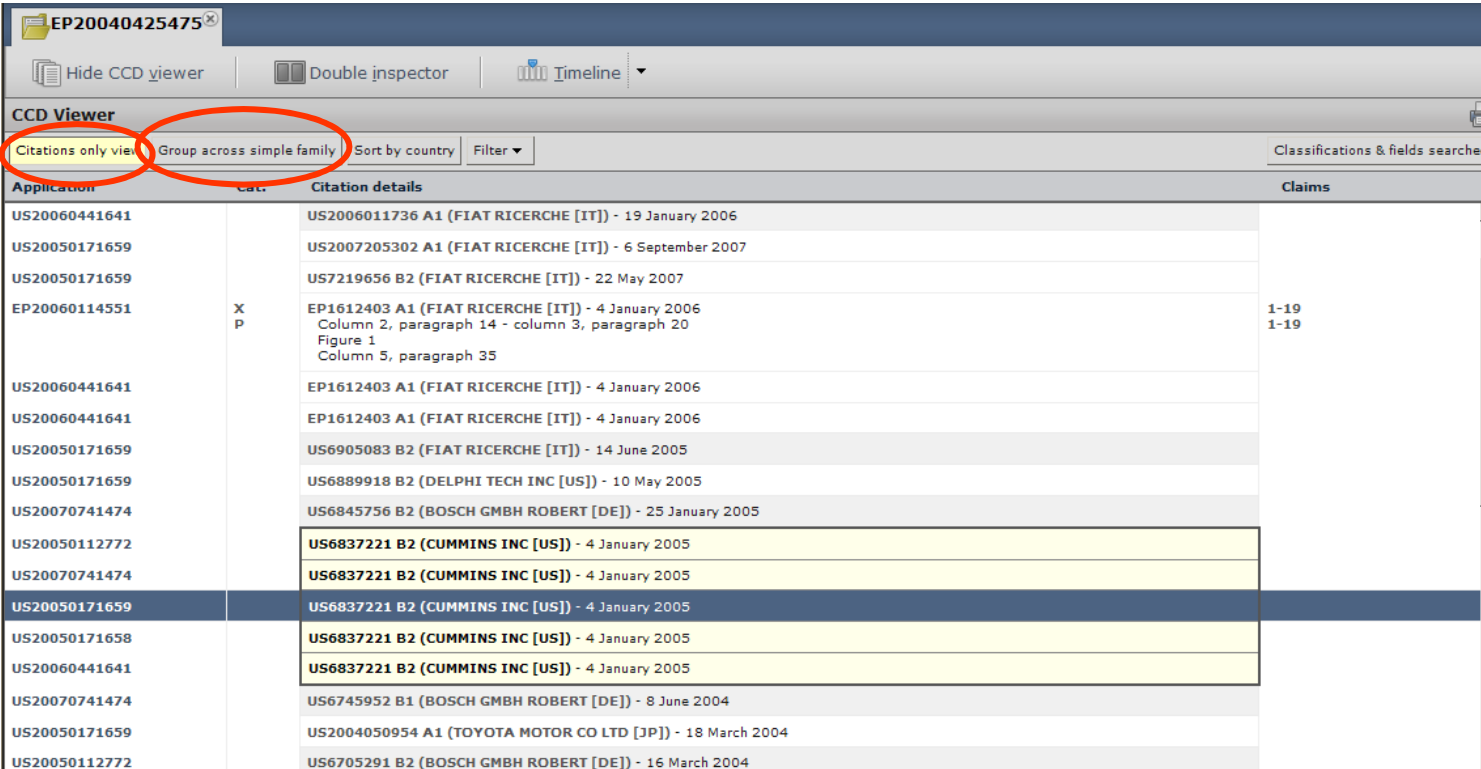


The screenshot shows the CCD Viewer interface for the patent EP20090151293. The 'Citation details' tab is selected, displaying a list of 9 family members. The first member is highlighted in yellow.

#	CC	Cat.	Citation details
1	EP		Application N° EP20090151293 (EP09151293) - 4 February 2000
2	AT		Application N° AT20000914516T (AT00914516) - 4 February 2000
3	AU		Application N° AU2000035896D (AU3589600) - 4 February 2000
4	CA		Application N° CA20002361429 (CA002361429) - 4 February 2000
5	EP		Application N° EP20000914516 (EP00914516) - 4 February 2000
6	JP		Application N° JP20000597793T (JP20000597793) - 4 February 2000
7	US		Application N° US20000495722 (US09495722) - 1 February 2000
8	WO		Application N° WO20000502906 (WO00002906) - 4 February 2000
9	US		Application N° US20040917759 (US10917759) - 13 August 2004

# CCD Viewer: Citations Only

§ To view the citations as list, rather than grouped by applications, extended family



EP20040425475

Hide CCD viewer Double inspector Timeline

CCD Viewer

Citations only view Group across simple family Sort by country Filter

Classifications & fields searched

Application	Cat.	Citation details	Claims
US20060441641		US2006011736 A1 (FIAT RICERCHE [IT]) - 19 January 2006	
US20050171659		US2007205302 A1 (FIAT RICERCHE [IT]) - 6 September 2007	
US20050171659		US7219656 B2 (FIAT RICERCHE [IT]) - 22 May 2007	
EP20060114551	X P	EP1612403 A1 (FIAT RICERCHE [IT]) - 4 January 2006 Column 2, paragraph 14 - column 3, paragraph 20 Figure 1 Column 5, paragraph 35	1-19 1-19
US20060441641		EP1612403 A1 (FIAT RICERCHE [IT]) - 4 January 2006	
US20060441641		EP1612403 A1 (FIAT RICERCHE [IT]) - 4 January 2006	
US20050171659		US6905083 B2 (FIAT RICERCHE [IT]) - 14 June 2005	
US20050171659		US6889918 B2 (DELPHI TECH INC [US]) - 10 May 2005	
US20070741474		US6845756 B2 (BOSCH GMBH ROBERT [DE]) - 25 January 2005	
US20050112772		US6837221 B2 (CUMMINS INC [US]) - 4 January 2005	
US20070741474		US6837221 B2 (CUMMINS INC [US]) - 4 January 2005	
US20050171659		US6837221 B2 (CUMMINS INC [US]) - 4 January 2005	
US20050171658		US6837221 B2 (CUMMINS INC [US]) - 4 January 2005	
US20060441641		US6837221 B2 (CUMMINS INC [US]) - 4 January 2005	
US20070741474		US6745952 B1 (BOSCH GMBH ROBERT [DE]) - 8 June 2004	
US20050171659		US2004050954 A1 (TOYOTA MOTOR CO LTD [JP]) - 18 March 2004	
US20050112772		US6705291 B2 (BOSCH GMBH ROBERT [DE]) - 16 March 2004	

# The Inspector (1/3)

§ Selecting e.g. the EP application, sends it to the first inspector (and replaces the class/fields viewer if it was displayed)

The screenshot displays the 'The Inspector' interface of the European Patent Office (EPO). The main window is titled 'EP20090151293' and features a toolbar with options like 'Hide CCD viewer', 'Double inspector', and 'Timeline'. Below the toolbar, there's a 'CCD Viewer' section with tabs for 'Citations only view', 'Compact view', 'Sort by country', and 'Filter'. The central area shows a list of patent applications, with the first one (EP) selected. To the right, a detailed view of the selected application (EP20090151293) is shown, including its title, publication date, inventor, applicant, and abstract.

#	CC	Cat.	Citation details	Claims
1	EP		<b>Application N° EP20090151293</b> (EP09151293) - 4 February 2000 <b>National Search Report</b> <b>PADIS - An automatic telephone switchboard and directory information system</b> <b>Authors:</b> Kellner A, Rueber B, Seide F, Tran B-H <b>Publication data:</b> SPEECH COMMUNICATION, 19971001 ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL <b>Source info:</b> Vol: 23, Nr: 1-2, Page(s): 95 - 111 <b>Abstract</b> Page 105, column R, paragraph L - page 106, column L, paragraph 3 Figure 8 <b>National Examination</b> <b>WO9821679 A1</b> (MICROSOFT CORP [US]) - 22 May 1998 <b>Application N° AT20000914516T</b> (AT00914516) - 4 February 2000 <b>Application N° AU20000035896D</b> (AU3589600) - 4 February 2000 <b>Application N° CA20002361429</b> (CA002361429) - 4 February 2000 <b>Application N° EP20000914516</b> (EP00914516) - 4 February 2000 <b>National Search Report</b> <b>PADIS - An automatic telephone switchboard and directory information system</b> <b>Authors:</b> Kellner A, Rueber B, Seide F, Tran B-H <b>Publication data:</b> SPEECH COMMUNICATION, 19971001 ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL <b>Source info:</b> Vol: 23, Nr: 1-2, Page(s): 95 - 111 <b>[X] 1, 6, 11, 16, 22 Abstract</b> Page 105, column R, paragraph L - page 106, column L, paragraph 3 Figure 8 <b>Non-patent literature</b> See also references of WO 0046792A1 <b>Application N° JP20000597793T</b> (JP2000597793) - 4 February 2000 <b>Application N° US20000495722</b> (US09495722) - 1 February 2000 <b>National Search Report</b> <b>US732216 A</b> (INTERNET ANGLES INC [US]) - 24 March 1998 <b>US5960399 A</b> (GTE INTERNETWORKING INC [US]) - 28 September 1999 <b>US5983221 A</b> (WORDSTREAM INC [US]) - 9 November 1999 <b>Non-patent literature</b> ACM Multimedia, Hemphill et al., "Speech-Aware Multimedia", 1996, pp. 74-78 <b>Applicant</b> <b>US4445187 A</b> (BEST ROBERT M) - 24 April 1984 <b>US197005 A</b> (INTELLIGENT BUSINESS SYSTEMS [US]) - 23 March 1993 <b>US265065 A</b> (WEST PUBLISHING CO [US]) - 23 November 1993 <b>US369575 A</b> (IBM [US]) - 29 November 1994 <b>US4445187 A</b> (BEST ROBERT M) - 24 April 1984	

**Application EP20090151293**

**Bibliographic data: EP 2085963 (A1)**

**System and method for bilateral communication between a user and a system**

**Publication date:** 5 August 2009

**Inventor(s):** LUCENTE MARK [US]; POLISH NATHANIEL [US]

**Applicant(s):** SOLQUE SOFTWARE LTD LIABILITY [US]

**Classifications:** **International:** G06F17/28; G10L15/18; G10L13/00; G10L13/08; G10L15/00; G10L15/22  
**European:** G10L15/22

**Application number:** EP20090151293 20000204

**Priority number(s):** EP20000914516 20000204  
 US19990118800P 19990204  
 US20000495722 20000201

**Abstract of EP 2085963 (A1)**

A method for a human machine communication system that includes the steps of receiving a first statement in a natural language from a user, generating first information based on the statement and storing context information of at least one of the first statement and the first information. The method also includes the steps of optionally generating a question to be presented to the user in the natural language based on the context information, receiving a second statement in the natural language from the user and generating second information based on the second statement and the context information.

Simple families: 2      Total family members: 8      [Get all family members](#)

## The Inspector (2/3)

§ It is possible to visualise any application, or its citations in one of the two inspectors (right click over reference, e.g. the EP, select inspector)

The screenshot shows the EPO database interface. The main window displays a list of patent applications. The selected application is **EP20090151293**. A red circle highlights the **Show in inspector 1** button. The **Inspector** window is open, showing the **Citations** tab. The **Citations** tab lists various patent references and their details.

#	CC	Cat.	Citation details
1	EP		Application No. EP20090151293
2	AT		
3	AU		
4	CA		
5	EP		
6	JP		Application No. JP20000597793T (JP2000597793) - 4 February 2000
7	US		Application No. US20000495722 (US09495722) - 1 February 2000

The **Inspector** window shows the **Citations** tab. The **Citations** tab lists various patent references and their details. The **Fields searched** section shows the **IPC** class **G10L**.

§ It is possible to visualise any application, or its citations in one of the two inspectors (right click over reference)

Number: EP1612402

Search

examples: EP1612402, US2006000447A1, JP20090214944

EP20040425480

Hide CCD viewer

Double inspector

Timeline

CCD Viewer

Citations only view

Compact view

Sort by country

Filter

Classifications & fields searched

<

<

Biblio

Description

Claims

Original document

>

>

#

CC

Cat.

Citation details

Claims

1

EP

Application N° EP20040425480 (EP04425480) - 30 June 2004

National Search Report

X

DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004

Page 3, paragraph 19

Figure 1

1-3

X

US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985

Column 2, line 22 - column 2, line 23

Figure 1

1-5

X

EP0270720 A1 (RENAULT [FR]) - 15 June 1988

Page 5, line 12 - page 6, line 5

Figure 1, 6

1,4-8

A

EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989

Figure 1

1-8

A

DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998

Figure 1

1-8

2

AT

Application N° AT20040425480T (AT04425480) - 30 June 2004

3

DE

Application N° DE20046000210ST (DE60200400210S) - 30 June 2004

4

ES

Application N° ES20040425480T (ES04425480) - 30 June 2004

5

JP

Application N° JP20050120087 (JP2005120087) - 18 April 2005

6

JP

Application N° JP20090214944 (JP2009214944) - 16 September 2009

National Examination

JP2004011448 A (NIPPON SOKEN, et al) - 15 January 2004

JP2004124727 A (DENSO CORP) - 22 April 2004

JP01160164 U

JP11230005 A (NIPPON SOKEN, et al) - 24 August 1999

JP10295611 A (NIPPON SOKEN) - 10 November 1998

JP2001107776 A (NISSAN MOTOR) - 17 April 2001

JP2000130288 A (TOYOTA MOTOR CORP) - 9 May 2000

7

US

Application N° US20050095425 (US11095425) - 31 March 2005

National Search Report

US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985

US4884545 A (IVECO FIAT [IT], et al) - 5 December 1989

US4957084 A (BOSCH GMBH ROBERT [DE]) - 18 September 1990

US5619970 A (LUCAS IND PLC [GB]) - 15 April 1997

JP2004011448.A (JP20090214944)

[also published as]

Full document: JP 2004011448 (A)

JP 2004 11448 A 2004. 1. 15

(1) 特許出願公開番号

特開2004-11448

(2004-11448)

(2) 公開日

平成16年1月15日(2004.1.15)

(3) 出願番号

特許2002-162544 (2002-162544)

(4) 出願日

平成14年9月4日(2002.9.4)

(5) 出願人

株式会社日本自動車部品総合研究所

(6) 代理人

特許事務所

(7) 出願人

株式会社日本自動車部品総合研究所

(8) 代理人

特許事務所

(9) 発明の名称

減圧調整装置

(10) 要約

【課題】エンジン等の実運転時における圧力調整を行い、20コイル以上圧力調整可能なエンジン、コイル数により減圧調整が駆動不可能になった場合でも、コモンレール圧力を迅速走行が可能に圧力に導くことと可能とする点を解決する減圧調整装置を提供する。

【解決手段】減圧調整機構システムの20コイル以上を低圧調整可能なエンジン、コイル数により減圧調整が駆動不可能になった場合でも、コモンレール圧力を迅速走行が可能に圧力に導くことと可能とする点を解決する減圧調整装置を提供する。

【請求項】エンジン等の実運転時における圧力調整を行い、20コイル以上圧力調整可能なエンジン、コイル数により減圧調整が駆動不可能になった場合でも、コモンレール圧力を迅速走行が可能に圧力に導くことと可能とする点を解決する減圧調整装置を提供する。

(11) 図1

Simple families: 1

Total family members: 7

Page 1/22 - ABSTRACT

# The Double Inspector

§ As an example, the first patent literature citation of a US family member sent to the both first (image) and second (text) inspector

Number: EP1612402 Search examples: EP1612402, US2006000447A1, JP20090214944

EP20040425480

Hide CCD viewer Single inspector Timeline

CCD Viewer

US4501246.A (US20050095425) US4501246.A (US20050095425)

Citations only view Compact view Sort by country Filter Classifications & fields searched

#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP20040425480 (EP04425480) - 30 June 2004	
			National Search Report	
	X		DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 Page 3, paragraph 19 Figure 1	1-3
	X		US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985 Column 2, line 22 - column 2, line 23 Figure 1	1-5
	X		EP0270720 A1 (RENAULT [FR]) - 15 June 1988 Page 5, line 12 - page 6, line 5 Figure 1, 6	1,4-8
	A		EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989 Figure 1	1-8
	A		DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998 Figure 1	1-8
2	AT		Application N° AT20040425480T (AT04425480) - 30 June 2004	
3	DE		Application N° DE200460002105T (DE602004002105) - 30 June 2004	
4	ES		Application N° ES20040425480T (ES04425480) - 30 June 2004	
5	JP		Application N° JP20050120087 (JP2005120087) - 18 April 2005	
6	JP		Application N° JP20090214944 (JP2009214944) - 16 September 2009	
			National Examination	
			JP2004011448 A (NIPPON SOKEN, et al) - 19 January 2004	
			JP2004124727 A (DENSO CORP) - 22 April 2004	
			JPH01160164 U	
			JP11230005 A (NIPPON SOKEN, et al) - 24 August 1999	
			JP10299611 A (NIPPON SOKEN) - 10 November 1998	
			JP2001107776 A (NISSAN MOTOR) - 17 April 2001	
			JP2000130288 A (TOYOTA MOTOR CORP) - 9 May 2000	
7	US		Application N° US20050095425 (US11095425) - 31 March 2005	
			National Search Report	
			US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985	
			US4884545 A (IVECO FIAT [IT], et al) - 5 December 1989	
			US4957084 A (BOSCH GMBH ROBERT [DE]) - 18 September 1990	
			US5619970 A (LUCAS IND PLC [GB]) - 15 April 1997	

Simple families: 1 Total family members: 7

Full document: US 4501246 (A)

U.S. Patent Feb. 26, 1985 Sheet 1 of 2 4,501,246

FIG. 1

Full document: US 4501246 (A)

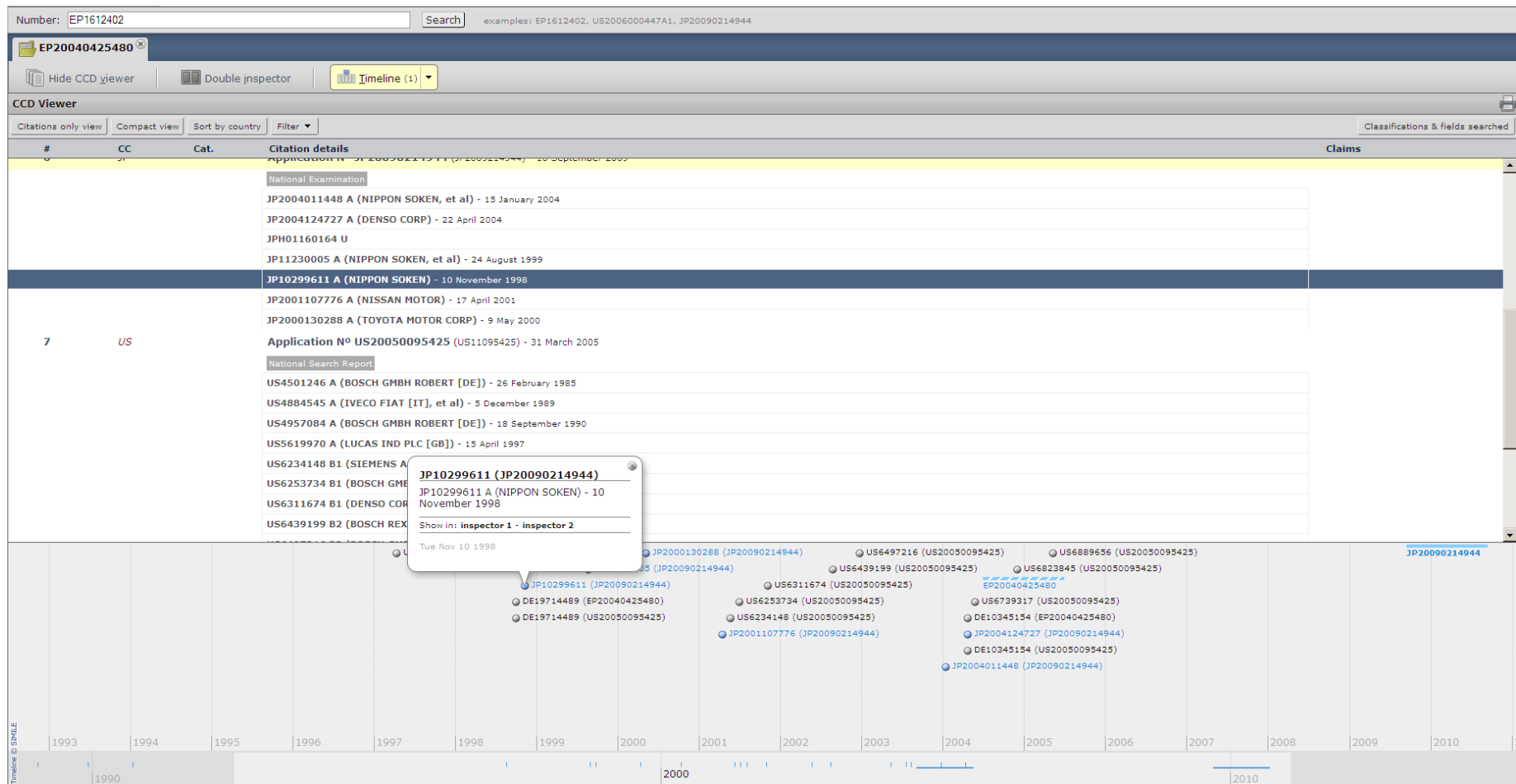
U.S. Patent Feb. 26, 1985 Sheet 2 of 2 4,501,246

FIG. 2

Page 2/5 - DRAWINGS Page 3/5

# The Timeline

§ The timeline shows a 2D relative representation of family members and their citations.



# Data Coverage (1/2)

## § Current CCD Data coverage overview

Overview citation data in EPO's citation data base (REFI)								Citation Origin								Cat
Status : 08 January 2014								APP	SEA	TPO	EXA	OPP	PRS	POP	APL	
CC	Country	First publication number	First publication date	Number of citing publications	Number of cited patents	Number of cited non-patents	Number of cited applications	Applicant	Search	3rd Party Observation	Examination	Opposition	PR, SR Result	Filed by Opponent	Appeal	Relevance Ind.
AP	ARIPO	1	03-07-1985	2 665	6 039	757		N	Y	N	N	N	N	N	N	N
AT	AUSTRIA	373757	27-02-1994	41 628	137 996	3 828		N	Y	N	N	N	N	N	N	N
AU	AUSTRALIA	411295	10-03-1971	288 604	752 175	54 524		N	Y	N	N	N	N	N	N	N
BE	BELGIUM	1000039	15-12-1987	13 364	56 916	6 339	11	Y	Y	N	N	N	N	N	N	Y
BG	BULGARIA	693	29-10-2004	1 607	4 443	3		N	Y	N	N	N	N	N	N	N
CH	SWITZERLAND	370301	30-06-1963	5 743	26 342	1 514	1	Y	Y	N	N	N	N	N	N	Y
CY	CYPRUS	2418	12-11-2004	15	63	3		Y	Y	N	N	N	N	N	N	Y
CZ	CZECH	295900	16-11-2005	7 196	27 857	2 179		N	Y	N	N	N	N	N	N	N
DE	GERMANY	738624	13-09-1943	1 578 572	5 345 895	645 054	142	Y	Y	N	N	N	N	N	N	N
DK	DENMARK	80501	06-02-1956	3 078	9 378	17		Y	Y	N	N	N	N	N	N	N
EA	EUROPEAN	1	31-03-1997	11 060	47 304	8 731		N	Y	N	N	N	N	N	N	N
EP	EUROPEAN PATENT OFFICE	1	20-12-1978	1 834 570	8 035 863	2 393 605	52 226	Y	Y	Y	Y	Y	N	N	N	Y
ES	SPAIN	2026828	01-05-1992	44 387	184 211	22 916		N	Y	N	N	N	N	N	N	Y
FI	FINLAND	82743	31-12-1990	8	43	12		N	Y	N	N	N	N	N	N	N
FR	FRANCE	2000037	29-08-1969	616 996	2 298 019	280 864	325	Y	Y	N	N	N	N	N	N	Y
GB	GREAT BRITAIN	2000001	04-01-1979	506 175	2 023 661	90 480		N	Y	N	N	N	N	N	N	N
GR	GREECE	88100007	16-12-1998	2 830	10 411	3 392	5	Y	Y	N	N	N	N	N	N	Y
IT	ITALY	FG20080007	01-10-2008	38 507	154 724	10 601		N	Y	N	N	N	N	N	N	Y
JP	JAPAN	40031998	09-11-1965	4 061 392	13 111 398	173 720		N	Y	N	Y	Y	N	Y	Y	N
KR	KOREA	100543323	07-01-2006	443 328	1 355 485	2 526		N	Y	N	Y	N	N	N	N	N
LU	LUXEMBOURG	90189	16-12-1998	659	2 083	372		Y	Y	N	N	N	N	N	N	Y
MY	MALAYSIA	115077	31-03-2003	763	2 739	11		N	Y	N	N	N	N	N	N	N
NL	NETHERLANDS	58971	15-02-1947	27 244	121 095	12 184	52	Y	Y	N	N	N	N	N	N	Y
NO	NORWAY	20082451	01-12-2009	57	204	48		N	Y	N	N	N	N	N	N	Y
RU	RUSSIA	1840851	20-01-2013	14 549	69 229	6 456		N	Y	N	N	N	N	N	N	N
SG	SINGAPORE	49613	20-03-2001	11 701	41 298	788		N	Y	N	N	N	N	N	N	N
TR	TURKEY	22295	07-01-1987	3 242	12 721	2 766		Y	Y	N	N	N	N	N	N	Y
US	UNITED STATES OF AMERICA	2413742	07-01-1947	6 956 658	83 722 117	16 401 082		Y	Y	N	N	N	N	Y	N	N
WO	WIPO	7800001	19-10-1978	2 314 496	13 254 040	3 195 979	72 088	Y	Y	N	N	N	N	N	N	Y
Total				18 839 494	131 314 536	23 324 741	125 350									

## Data Coverage (2/2)

### § Overview citation data (**EPO**, **JPO**, **USPTO**, **KIPO** and **WIPO**)

Overview citation data in EPO's citation data base (REFI)								Citation Origin								Cat
Status : 08 January 2014								APP	SEA	TPO	EXA	OPP	PRS	FOP	APL	
CC	Country	First publication number	First publication date	Number of citing publications	Number of cited patents	Number of cited non-patents	Number of cited applications	Applicant	Search	3rd Party Observation	Examination	Opposition	PR. SR Result	Filed by Opponent	Appeal	Relevance ind.
EP	EUROPEAN PATENT OFFICE	1	20-12-1978	1 834 570	8 035 863	2 393 605	52 226	Y	Y	Y	Y	Y	N	N	N	Y
JP	JAPAN	40031998	09-11-1965	4 061 392	13 111 398	173 720		N	Y	N	Y	Y	N	Y	Y	N
KR	KOREA	100543323	07-01-2006	443 328	1 355 485	2 526		N	Y	N	Y	N	N	N	N	N
US	UNITED STATES OF AMERICA	2413742	07-01-1947	6 956 658	83 722 117	16 401 082		Y	Y	N	N	N	Y	N	N	N
WO	WIPO	7800001	19-10-1978	2 314 496	13 254 040	3 195 979	72 088	Y	Y	N	N	N	N	N	N	Y

# Outline

- ü Facts & Main functionalities
- ü Online access
- ü The input mask
- ü The PCT/ISA/210 model
- ü CCD Initial Output
- ü Features of the CCD web application :
  - ü CCD Viewer
  - ü The Inspector
  - ü The Double Inspector
  - ü The Timeline
  - ü Data Coverage