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Patentamt
European
Patent Office
Office européen
des brevets

CCD

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



Acknowledgement: Pietro Rini

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

Application EP20040425480

Application JP20050120087

Full document: EP 1612402 A1

Full document: JP 2006017109 (A)

fiveIPoffices - CCD

Application N° EP20040425480 (EP04425480) - 30 June 2004

#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP20040425480 (EP04425480) - 30 June 2004	
			National Search Report	
X	DE	10345154 A1 (DENSO CORP [JP]) - 22 April 2004	Page 3, paragraph 19 Figure 1	1-3
X	US	4501246 A (BOSCH GMBH ROBERT [DE]) - 26 February 1985	Column 2, line 22 - column 2, line 23 Figure 1	1-5
X	EP	0270720 A1 (RENAULT [FR]) - 15 June 1988	Page 5, line 12 - page 6, line 5 Figure 1, 6	1,4-8
A	EP	0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1999	Figure 1	1-8
A	DE	19714489 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	

Simple families: 1 Total family members: 7

Fig. 1

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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 is most easily accessed from **Espace**net (INPADOC Patent family tab)
- 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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The input mask – for direct access

- 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 PCT/ISA/210 model

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/02906

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G10L 15/18
US CL : 704/257

B. FIELDS SEARCHED
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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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

Further documents are listed in the continuation of Box C. See patent family annex.

* *A* *B* *L* *O* *P*	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date 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) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	*T* *X* *Y* *A*	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 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 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 document member of the same patent family
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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

Form PCT/ISA/210 (second sheet) (July 1998)*

Classification of S-M

Fields searched

Documents considered to be relevant

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

CCD Initial Output

The screenshot displays the CCD Viewer interface for patent EP20090151293. The main window shows a list of citations with columns for citation number, country code (CC), category (Cat.), citation details, and claims. Citation 1 is highlighted, showing its details and a National Search Report. The report includes the title 'PADIS - An automatic telephone switchboard and directory information system', authors, publication data, and abstract. The report also lists related patent applications from various countries (AT, AU, CA, JP, US) and non-patent literature references.

On the right side, the 'Inspector: classifications and fields searched' window is open. It shows the following classifications:

- EP:** G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22
- AT:** G06F17/28, G10L15/18, G10L13/00, G10L13/08, G10L15/00, G10L15/22
- AU:** G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22
- CA:** G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22
- JP:** G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22
- US:** G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22
- WO:** G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22

The 'Fields searched' section shows:

- EP:** G10L

Overlaid on the screenshot are several text annotations:

- A purple box around the citation details and search report with the text: **Documents considered to be relevant**
- An orange box around the 'Classifications' section with the text: **Classifications**
- A red box around the 'Fields searched' section with the text: **Fields searched**
- A red box around the entire inspector window with the text: **Inspector(s)**
- A blue box at the bottom left with the text: **CCD VIEWER**

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How to we get there

Number: EP1612402 Search examples: EP1612402, US2006000447A1, JP20090214944

EP20040425480

Hide CCD viewer Single Inspector Timeline

CCD Viewer Application EP20040425480 Application JP20050120087

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

CC Cat. Citation details Claims

#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP20040425480 (EP04425480) - 30 June 2004	
			National Search Report	
X	DE	10345154 A1	(DENSO CORP [JP]) - 22 April 2004 Page 3, paragraph 19 Figure 1	1-3
X	US	4501246 A	(BOSCH GMBH ROBERT [DE]) - 26 February 1985 Column 2, line 22 - column 2, line 23 Figure 1	1-5
X	EP	0270720 A1	(RENAULT [FR]) - 15 June 1988 Page 5, line 12 - page 6, line 5 Figure 1, 6	1,4-8
A	EP	0299337 A2	(IVECO FIAT [IT], et al) - 18 January 1989 Figure 1	1-8
A	DE	19714489 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	

20050095425 US6739317 (US20050095425) US6689656 (US20050095425)

5) DE10345154 (EP20040425480) JP20050120087

JP2004124727 (JP20090214944) US20050095425

US6823845 (US20050095425)

EP20040425480

AT20040425480T

DE200460002105T

ES20040425480T

DE10345154 (US20050095425)

JP2004011448 (JP20090214944)

Timeline: 2004 Q3 Q4 2005 Q2 Q3 Q4 2006 Q2 Q3

Simple families: 1 Total family members: 7

Application EP20040425480

Biblio Description Claims Original document

Full document: EP 1612402 A1

Application JP20050120087

Biblio Description Claims Original document

Full document: JP 2006017109 (A)

EP 1 612 402 A1

Fig. 1

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JP 2006017109 (A)

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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
-	EP		Application N° EP20090151293 (EP09151293) - 4 February 2000	
			National Search Report	
X			PADIS - An automatic telephone switchboard and directory information system Authors: Kellner A, Rueber B, Seide F, Tran B-H Publication data: SPEECH COMMUNICATION, 19971001 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	
			WO9821679 A1 (MICROSOFT CORP [US]) - 22 May 1998	
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	
			National Search Report	
			PADIS - An automatic telephone switchboard and directory information system Authors: Kellner A, Rueber B, Seide F, Tran B-H Publication data: SPEECH COMMUNICATION, 19971001 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		Application N° JP20000597793T (JP2000597793) - 4 February 2000	
7	US		Application N° US20000495722 (US09495722) - 1 February 2000	
			National Search Report	

CCD Viewer: Compact View

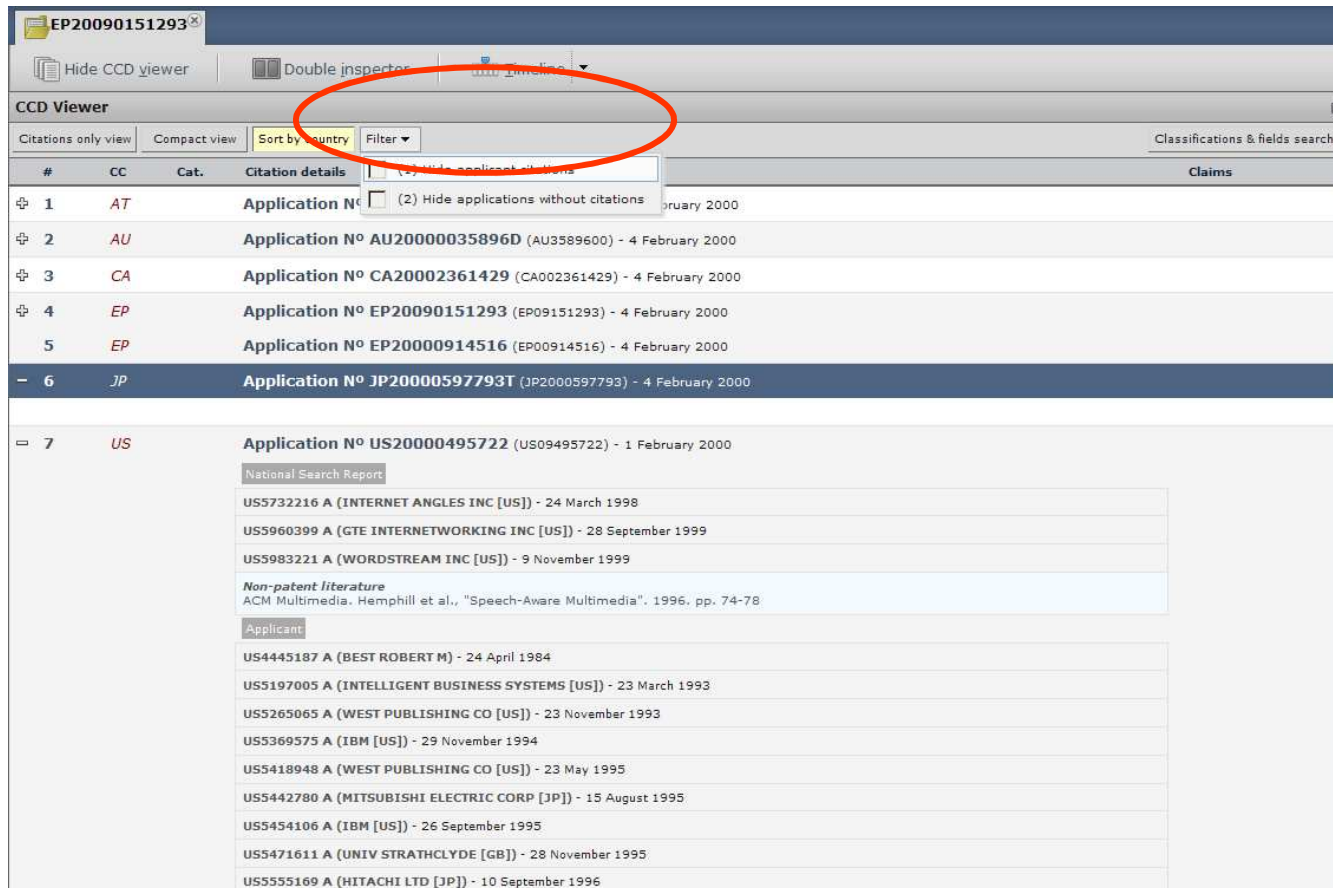
- All the citations are hidden; click "expand view" or the "+" to switch to compact view

The screenshot shows the CCD Viewer interface for patent EP20090151293. The interface includes a toolbar with 'Hide CCD viewer', 'Double inspector', and 'Timeline' options. Below the toolbar, the 'CCD Viewer' section has a 'Citations only view' button and an 'Expand view' button (circled in red). There are also 'Sort by country' and 'Filter' options. The main area displays a table of citations with columns for '#', 'CC', 'Cat.', 'Citation details', and 'Claims'. The first row is highlighted in blue and has a '+' icon (circled in red) in the '#' column. The table lists eight citations from various countries (AT, AU, CA, EP, JP, US, WO).

#	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

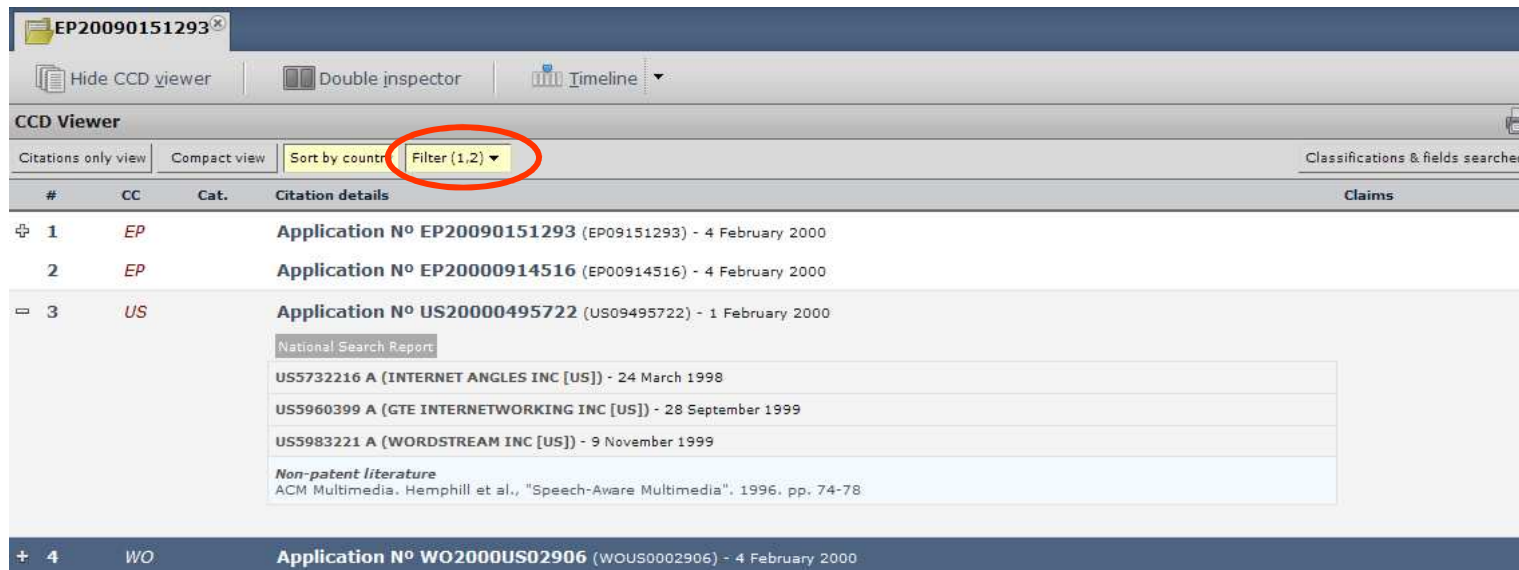


The screenshot shows the CCD Viewer interface for patent application EP20090151293. The interface includes a toolbar with options like 'Hide CCD viewer', 'Double inspector', and 'List citations'. Below the toolbar, there are view options: 'Citations only view', 'Compact view', 'Sort by country', and a 'Filter' dropdown menu, which is circled in red. The main area displays a table of citations with columns for '#', 'CC', 'Cat.', 'Citation details', and 'Claims'. The table lists several applications, including JP20000597793T (JP) and US20000495722 (US). The US application entry is expanded, showing a 'National Search Report' with citations to US5732216 A, US5960399 A, and US5983221 A, as well as 'Non-patent literature' and an 'Applicant' section listing various US patents.

#	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	

CCD Viewer : Filtering (2/2)

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



EP20090151293

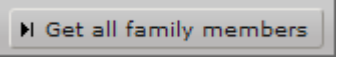
Hide CCD viewer Double inspector Timeline

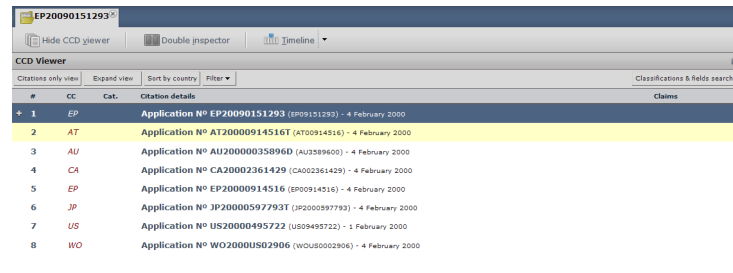
CCD Viewer

Citations only view Compact view Sort by country Filter (1,2) Classifications & fields searched

#	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

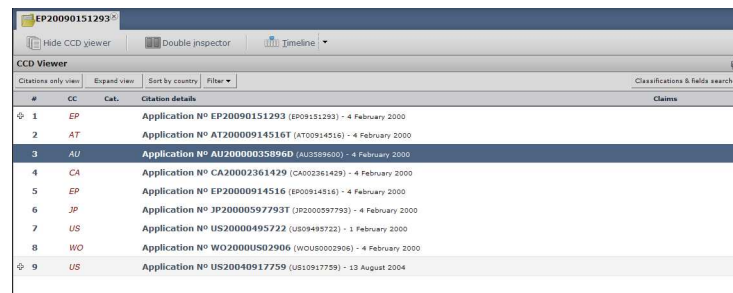
- By default CCD will retrieve the simple family. It is however possible to retrieve extended family and to view all simple families and their members; this requires clicking the  button at the bottom of the CCD Viewer.
 - In this example the simple family has 8 members



The screenshot shows the CCD Viewer interface for application EP20090151293. The table below lists the 8 family members:

#	CC	Cat.	Citation details	Claims
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 (JP2000597793) - 4 February 2000	
7	US		Application N° US20000495722 (US99495722) - 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 after clicking the 'Get all family members' button. The table below lists the 9 family members:

#	CC	Cat.	Citation details	Claims
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 (JP2000597793) - 4 February 2000	
7	US		Application N° US20000495722 (US99495722) - 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 shows the 'The Inspector' interface for patent application EP20009151293. The interface is divided into several sections:

- Top Bar:** Includes 'EP20009151293', 'Hide CCD viewer', 'Double inspector', and 'Timeline'.
- CCD Viewer:** A table listing related patent applications. The first entry is highlighted:

#	CC	Cat.	Citation details	Claims
1	EP		Application No EP20009151293 (EP09151293) - 4 February 2000	
2	AT		Application No AT20000914516T (AT00914516) - 4 February 2000	
3	AU		Application No AU2000035896D (AU3589600) - 4 February 2000	
4	CA		Application No CA20002361429 (CA002361429) - 4 February 2000	
5	EP		Application No EP20000914516 (EP00914516) - 4 February 2000	
6	JP		Application No JP20000597793T (JP2000597793) - 4 February 2000	
7	US		Application No US20000495722 (US09495722) - 1 February 2000	
- Application EP20009151293 Details:**
 - National Search Report:** PADIIS - An automatic telephone switchboard and directory information system. Authors: Kellner A, Rueber B, Seide F, Tran B-H. Publication data: SPEECH COMMUNICATION, 19971001 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.
 - National Examination:** WO9821679 A1 (MICROSOFT CORP [US]) - 22 May 1998.
 - Non-patent literature:** See also references of WO 0046792A1.
 - Applicant:** US4445187 A (BEST ROBERT M) - 24 April 1984; US197005 A (INTELLIGENT BUSINESS SYSTEMS [US]) - 23 March 1993; US9265063 A (WEST PUBLISHING CO [US]) - 23 November 1993; US369575 A (IBM [US]) - 29 November 1994.
- Right-hand Pane (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.
- Bottom Bar:** '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 displays the EP20090151293 application page. The main window shows the application details, including the title "PADIS - An automatic telephone switchboard" and authors "Kellner A, Rueber B, Seide F, Tran". A red circle highlights the "Show in inspector 1" and "Show in inspector 2" buttons. The "Inspector" window is open, showing a list of citations with columns for "G06F17/28", "G10L13/00", "G10L13/08", "G10L15/00", "G10L15/18", and "G10L15/22". The "Fields searched" window is also visible, showing the search results for "EP" and "IPC" classes.

#	CC	Cat.	Citation details
1	EP		Application N° EP20000495722
2	AT		Application N° EP20000495722
3	AU		Application N° EP20000495722
4	CA		Application N° EP20000495722
5	EP		Application N° EP20000495722
6	JP		Application N° JP20000597793T (JP20000597793) - 4 February 2000
7	US		Application N° US20000495722 (US09495722) - 1 February 2000

IPC	Class
G06F17/28	G10L13/00
G06F17/28	G10L13/08
G06F17/28	G10L15/00
G06F17/28	G10L15/18
G06F17/28	G10L15/22

The Inspector (3/3)

- 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

#	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) - 15 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

JP2004011448.A (JP20090214944) [also published as]

Biblio Description Claims Original document

Full document: JP 2004011448 (A)

JP 2004 11448 A 2004.1.15

(19) 日本国特許庁(P) (2) 公開特許公報(A) (3) 特許出願公開番号
特許2004-11448
2004-11448A
(4) 公開日 平成16年1月15日(2004.1.15)

(5) Int.Cl. ⁷	F I	ターモコーフ (特考)
FO2M 05/02	F 02M 55/02 35 0E	3 00 0 6
FO2D 41/04	F 02D 41/04 39 5	3 00 0 4
FO2D 41/22	F 02D 41/22 39 5	3 0 3 0 1
FO2D 45/00	F 02D 45/00 3 6 4 K	
FO2M 47/00	F 02M 47/00 E	

新案請求 手続済 請求項の数 8 O L (全 22 頁) 最終頁に続く

(2) 出願番号 特許2003-162544 (2003-162544)
(2) 出願日 平成14年9月4日(2002.6.6)

(7) 出願人 00009495
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(8) 【発明の名称】 減圧機構等

(9) 【要約】
【課題】エンジン室の空室運動時に全ての圧力領域においてコモンレール圧力を制御可能な構造を提供し、コイル駆動により減圧機構が駆動可能にならねばならず、コモンレール圧力を減圧機構が駆動可能な圧力に保つことを要する点を解決し、減圧機構を駆動可能にする。 【解決手段】 減圧機構駆動機構のコモンレールを減圧機構を駆動するリターン配管との間に接続させて、開閉時に減圧機構を介して燃料タンク内コモンレール内の燃料を戻しコモンレール圧力を降下させる減圧機構等から、減圧機構の開閉駆動を要するコイル、空室運動時に全ての圧力領域において減圧機構駆動可能構造としてのボール等20、このボール等20を開弁方向に駆動する第1コイル21、ボール等20を開弁方向に駆動する第2コイル22と、第2ボール等20を開弁方向に駆動するスプリング23等により構成し、

(9) 【図1】 図1

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
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	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) - 15 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	

Full document: US 4501246 (A) Full document: US 4501246 (A)

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

FIG. 1

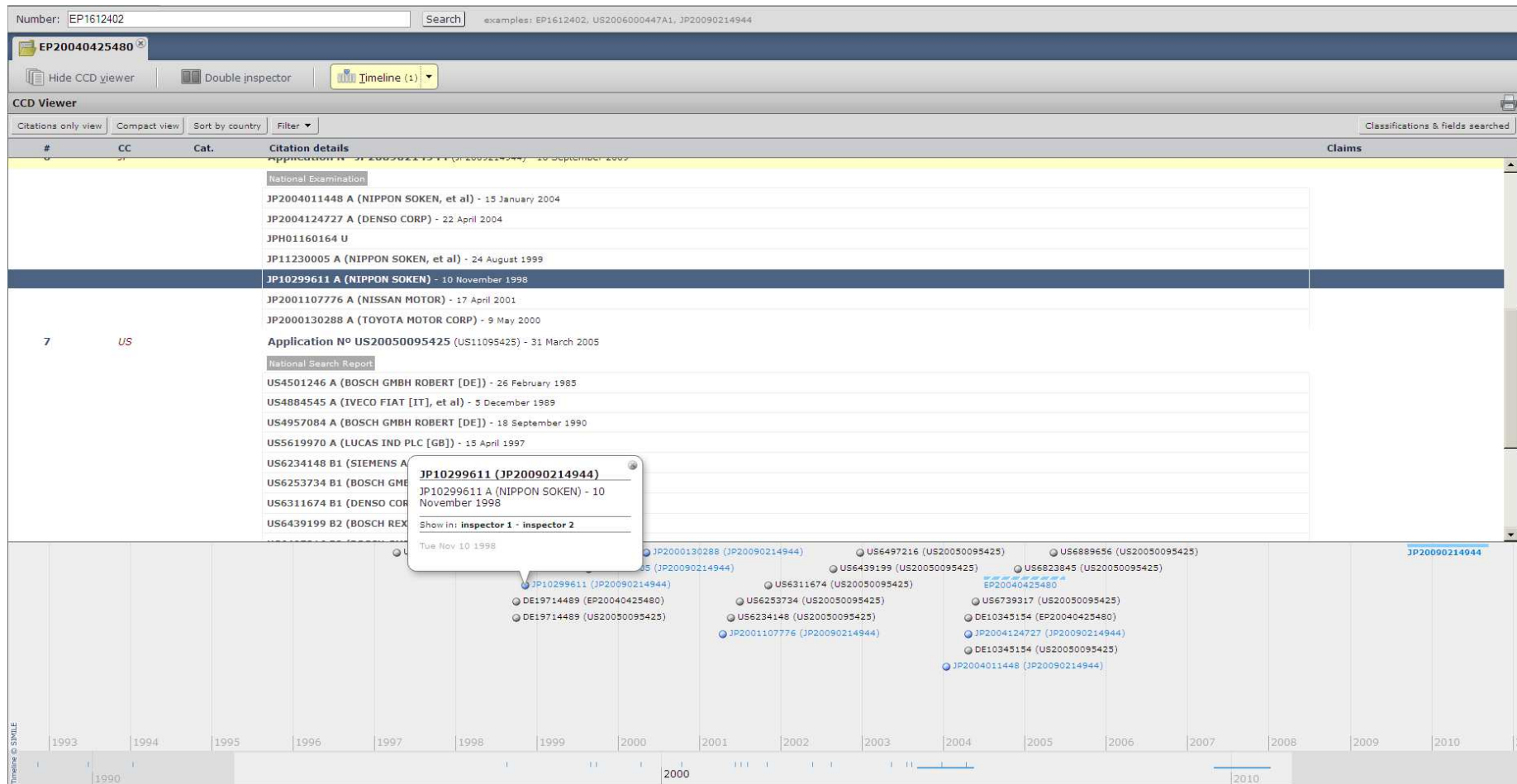
U.S. Patent Feb. 26, 1985 Sheet 2 of 2 4,501,246

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	Bearer	3rd Party Observation	Examination	Opposition	PR, SR Result	Filed by Opponent	Appeal	Relevance Incl.
AP	ARIPO	1	03-07-1985	2 665	6 039	757		N	Y	N	N	N	N	N	N	N
AT	AUSTRIA	373757	27-02-1984	41 628	137 996	3 828		N	Y	N	N	N	N	N	N	N
AU	AUSTRALIA	411295	18-03-1971	289 604	752 175	54 524		N	Y	N	N	N	N	N	N	N
BE	BELGIUM	1000039	15-12-1957	13 364	56 916	6 335	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		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	18-09-1943	1 578 572	5 345 898	649 054	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 PATENT OFFICE	1	31-03-1957	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	6 18 596	2 293 019	280 864	825	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	16-12-1988	2 830	10 411	3 382	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	90 189	16-12-1998	659	2 863	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	121 099	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	07-01-1997	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	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
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	AFL	
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.
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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
WD	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

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