



## Topic 6C: **Other File Inspection and Citation Sources**

Lutz Mailänder  
Head, Patent Information Section  
Global IP Infrastructure Sector

**Manila**  
**7 August 2014**

# Common Citation Document (CCD)

[ccd.fiveipoffices.org/CCD-2.0.4/](http://ccd.fiveipoffices.org/CCD-2.0.4/)

Hide CCD Double Viewer View Citations

**CCD View**

Compact view Sort by country Filter (1) Classifications & fields searched

#	CC	Cat.	Citation details	Claims
1	EP		<b>Application N° EP04425475</b> (EP20040425475) - 30 June 2004 National Search Report	
X	DE	4310984 A1	(REXROTH MANNESMANN GMBH [DE]) - 6 October 1994 Column 4, line 31 - column 5, line 54 Figure 1	1-5,13 6
Y	WO	011227 A1	(SIEMENS AG [DE], et al) - 15 February 2001 Page 7, line 9 - page 9, line 3 Figure 1 Claim 17	6 1
A	EP	0740068 A2	(LUCAS IND PLC [GB]) - 30 October 1996 Column 4, line 27 - column 5, line 13 Figure 2	1
A	US	6257499 B1	(STURMAN ODED E) - 10 July 2001 Column 4, line 49 - column 5, line 23 Figure 4	1
2	AT		<b>Application N° AT05425384</b> (AT20050425384T) - 27 May 2005	
3	AT		<b>Application N° AT05425383</b> (AT20050425383T) - 27 May 2005	
4	DE		<b>Application N° DE602004004254</b> (DE200460004254T) - 30 June 2004	
5	DE		<b>Application N° DE602005000662</b> (DE200560000662T) - 27 May 2005	
6	DE		<b>Application N° DE602005003175</b> (DE200560003175T) - 27 May 2005	
7	EP		<b>Application N° EP05425384</b> (EP20050425384) - 27 May 2005 National Search Report	

Simple families: 5 Total family members: 23

**Inspector: biblio for EP20040425475**

**Bibliographic data: EP 1612403 (A1)**

**Servo valve for controlling an internal combustion engine fuel injector**

**Publication date:** 4 January 2006

**Inventor(s):** RICCO MARIO [IT]; DE MATTHAEIS SISTO LUIGI [IT]; GORGOGNONE ADRIANO [IT]; DI MEO ALFONSO [IT]

**Applicant(s):** FIAT RICERCHE [IT]

**Classifications:** International: F02M59/46; F02M47/02  
European: F02M47/02D; F02M63/00E2B; F02M63/00E4C; F02M63/00E4D

**Application number:** EP20040425475 20040630

**Priority number(s):** EP20040425475 20040630

**Abstract of EP 1612403 (A1)**  
A control servo valve (8) is housed inside the casing of an internal combustion engine fuel injector (1), and has an actuator (9) between a closed and open position to close and open the outlet passage (22), and a shutter (35) movable along an axis (3) between a closed position and an open position to close and open the outlet passage (22) respectively. The servo valve (8) also has a fixed axial rod (29) interposed between the actuator (9) and the control chamber (13). The outlet passage (22) comes out through an outer lateral surface (30) of the axial rod (29) and the shutter (35) is defined by a sleeve which slides axially on the outer lateral surface (30), and, in the closed position, closes the outlet passage (22) so as to be subjected to a zero axial resultant force by the pressure of the fuel.

Hide CCD Double Viewer View Citations

**CCD View**

Expand view Sort by country Filter (1) Classifications & fields searched

#	CC	Cat.	Citation details	Claims
7	EP		<b>Application N° EP05425384</b> (EP20050425384) - 27 May 2005	
8	ES		<b>Application N° ES04425475</b> (ES20040425475T) - 30 June 2004	
9	ES		<b>Application N° ES05425384</b> (ES20050425384T) - 27 May 2005	
10	JP		<b>Application N° JP2005192051</b> (JP20050192051) - 30 June 2005	
11	JP		<b>Application N° JP2005118446</b> (JP20050118446) - 15 April 2005	
12	US		<b>Application N° US11112772</b> (US20050112772) - 21 April 2005	
13	US		<b>Application N° US11741474</b> (US20070741474) - 27 April 2007	
14	US		<b>Application N° US11171659</b> (US20050171659) - 30 June 2005	
15	EP		<b>Application N° EP05425383</b> (EP20050425383) - 27 May 2005	
16	JP		<b>Application N° JP2005191978</b> (JP20050191978) - 30 June 2005	
17	US		<b>Application N° US11171658</b> (US20050171658) - 30 June 2005	
18	AT		<b>Application N° AT06114551</b> (AT20060114551T) - 25 May 2006	
19	CN		<b>Application N° CNA2006101639681</b> (CN20061163968) - 24 November 2006	
20	KR		<b>Application N° KR1020060117230</b> (KR20060117230) - 24 November 2006	
21	EP		<b>Application N° EP06114551</b> (EP20060114551) - 25 May 2006	
22	JP		<b>Application N° JP2006147852</b> (JP20060147852) - 29 May 2006	
23	US		<b>Application N° US11441643</b> (US200601441643) - 26 May 2006	

Simple families: 5 Total family members: 23

**Inspector: biblio for EP20040425475**

**Bibliographic data: EP 1612403 (A1)**

**Servo valve for controlling an internal combustion engine fuel injector**

**Abstract of EP 1612403 (A1)**  
A control servo valve (8) is housed inside the casing of an internal combustion engine fuel injector (1), and has an actuator (9), a control chamber (13) communicating with a fuel inlet (5) and with a fuel outlet passage (22), and a shutter (35) movable along an axis (3) by the actuator (9) between a closed position and an open position to close and open the outlet passage (22) respectively. The servo valve (8) also has a fixed axial rod (29) interposed between the actuator (9) and the control chamber (13). The outlet passage (22) comes out through an outer lateral surface (30) of the axial rod (29) and the shutter (35) is defined by a sleeve which slides axially on the outer lateral surface (30), and, in the closed position, closes the outlet passage (22) so as to be subjected to a zero axial resultant force by the pressure of the fuel.

**Bibliographic data: EP 1612403 (B1)**

# Common Citation Document (CCD)

- CCD originated from a request of commercial sector (mostly US) to have a one stop shop for citations of prior art indentified by different IPOs for members of the patent family
  - To avoid researching individual national phases
  - Facilitate comparing prior art searches
  - Faciltate identification of additional prior art
  - Provide public access to trilateral offices internal resources
    - Trilateral and other offices had established mechanisms for exchange of prior art search reports

# Common Citation Document (CCD)

- CCD offers consolidated access to family information and the related **citation data** from JPO, USPTO, EPO, PCT, and several other jurisdictions for each respective family member.
- CCD builds on the EPO's family system and has been developed and is hosted by the EPO
  - Displays all simple families being part of an extended family
- CCD permits viewing of cited patent documents per family member
- No examination reports included
- Various display options



# Common Citation Document (CCD)

- Access to citation data:
  - Link in Espacenet when viewing Inpadoc family of an application
  - Search application number or publication number directly in CCD
- Default result:
  - simple family of the application (list of application numbers)
  - Indented: list of citations for each family member (if available)
- Option to retrieve the extended family
  - List of simple families separated by "+" sign



## Family list: EP2085963 (A1) — 2009-08-05

Select all (0/9)
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9 application(s) for: EP2085963 (A1)

Sort by  Sort order    show citations

### 1. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
LUCENTE MARK [US] POLISH NATHANIEL [US]	SOLQUE SOFTWARE LTD LIABILITY [US]	<a href="#">G10L15/22</a>		AT422089 (T) 2009-02-15	1999-02-04

### 2. System and method for bilateral communication between a user and a system

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
LUCENTE MARK POLISH NATHANIEL	SOLILOQUY INC	<a href="#">G10L15/22</a>		AU3589600 (A) 2000-08-25	1999-02-04

### 3. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
POLISH NATHANIEL [US] LUCENTE MARK [US]	SOLILOQUY INC [US]	<a href="#">G10L15/22</a>		CA2361429 (A1) 2000-08-10	1999-02-04

### 4. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
LUCENTE MARK [US] POLISH NATHANIEL [US]	SOLILOQUY INC [US]	<a href="#">G10L15/22</a>	XP004117212	EP 1163665 (A1) 2001-12-19 EP 1163665 (A4) 2005-09-14 EP 1163665 (B1) 2009-01-28	1999-02-04

### 5. System and method for bilateral communication between a user and a system

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
LUCENTE MARK [US] POLISH NATHANIEL [US]	SOLQUE SOFTWARE LTD LIABILITY [US]	<a href="#">G10L15/22</a>	WO9821679 A1 XP004117212	EP2085963 (A1) 2009-08-05	1999-02-04

### 6. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
		<a href="#">G10L15/22</a>		JP2002536755 (A) 2002-10-29	1999-02-04

### 7. Bilateral speech system

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
POLISH NATHANIEL [US]	SOLILOQUY INC [US]	<a href="#">G10L15/22</a>	US4445187 A US5197005 A US5265065 A US5369575 A US5418948 A (+19)	US6430531 (B1) 2002-08-06	1999-02-04

# "Compact" view

- Citations are hidden; click "expand" or "+" to see the citations

The screenshot displays the WIPO CCD Viewer interface for application EP20090151293. The interface includes a header with the application ID, a toolbar with options like 'Hide CCD viewer', 'Double inspector', and 'Timeline', and a main table of citations. The table is currently in a compact view, with the first row expanded to show citation details. The 'Expand view' button and the '+' icon in the first row are circled in red.

#	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	

# Filtering

- It is possible to display only family members with citations, and/or remove citations cited only by the applicants themselves (disclosure requirement; however, category D documents, ie cited by examiner as well, are not removed)

The screenshot shows the WIPO CCD Viewer interface for application EP20090151293. The 'Filter' dropdown menu is open, showing two options: '(1) Hide applicant citations' and '(2) Hide applications without citations'. The table below lists several family members:

#	CC	Cat.	Citation details	Claims
1	AT		Application N° [redacted]	January 2000
2	AU		Application N° AU2000035896D (AU2585600)	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 with citations to US5732216 A, US5960399 A, and US5983221 A, and a reference to non-patent literature: ACM Multimedia, Hemphill et al., "Speech-Aware Multimedia", 1996, pp. 74-78.



# Espacenet view shows domestic families

## Result list

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17 results found in the Worldwide database for:  
200908 as the publication date AND G10L15/22 as the Cooperative Patent Classification

Sort by  Sort order

### 1. SYSTEMS AND METHODS FOR COLLABORATIVE NOTE-TAKING

★	<b>Inventor:</b> THIONE GIOVANNI LORENZO [US] DENOUE LAURENT [US] (+1)	<b>Applicant:</b> FUJI XEROX CO LTD [JP]	<b>CPC:</b> G06F17/24 G10L15/22 Y10S707/99936	<b>IPC:</b> G06F17/24 G06F17/27 G06F17/30 (+9)	<b>Publication info:</b> US2009204620 (A1) 2009-08-13	<b>Priority date:</b> 2004-02-02
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### 2. Open Architecture For A Voice User Interface

★	<b>Inventor:</b> TESSEL MARIANNA [US] LANGE DANNY [US] (+4)	<b>Applicant:</b> BEN FRANKLIN PATENT HOLDING LL [US]	<b>CPC:</b> G10L15/22 G10L15/30	<b>IPC:</b> G10L15/00	<b>Publication info:</b> US2009216540 (A1) 2009-08-27 US8005683 (B2) 2011-08-23	<b>Priority date:</b> 2000-12-08
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### 3. Voice recognition apparatus and method for performing voice recognition

★	<b>Inventor:</b> HIROSHI SUGIYAMA [JP] KAORU SUZUKI [JP] (+2)	<b>Applicant:</b> TOSHIBA KK [JP]	<b>CPC:</b> G10L15/20 G10L15/22	<b>IPC:</b> G10L15/26	<b>Publication info:</b> CN101510425 (A) 2009-08-19 CN101510425 (B) 2012-02-29	<b>Priority date:</b> 2008-02-15
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### 4. METHOD FOR RECOGNISING INPUT IN A VOICE RECOGNITION SYSTEM

★	<b>Inventor:</b> STEMMER GEORG [DE]	<b>Applicant:</b> SIEMENS AG [DE] STEMMER GEORG [DE]	<b>CPC:</b> G10L15/22	<b>IPC:</b> G10L15/22	<b>Publication info:</b> WO2009098118 (A1) 2009-08-13	<b>Priority date:</b> 2008-02-06
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### 5. VOICE INTERACTIVE DEVICE AND VOICE INTERACTIVE PROGRAM

★	<b>Inventor:</b> YAMATO AKIKO	<b>Applicant:</b> BROTHER IND LTD	<b>CPC:</b> G10L15/22 G10L2015/088	<b>IPC:</b> G10L13/00 G10L13/08 G10L15/10 (+1)	<b>Publication info:</b> JP2009186989 (A) 2009-08-20	<b>Priority date:</b> 2008-01-10
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### 6. Gaming Apparatus Capable of Conversation with Player and Control Method Thereof

★	<b>Inventor:</b> OKADA KAZUO [JP]	<b>Applicant:</b> ARUZE GAMING AMERICA INC [US]	<b>CPC:</b> G10L15/005 G10L15/22	<b>IPC:</b> G06F17/20 G10L15/26	<b>Publication info:</b> US2009210217 (A1) 2009-08-20	<b>Priority date:</b> 2008-02-14
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### 7. STORED PHRASE REUTILIZATION WHEN TESTING SPEECH RECOGNITION

# 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  
 According to International Patent Classification (IPC) or to both national classification and IPC:

**B. FIELDS SEARCHED**  
 Minimum documentation searched (classification system followed by classification symbols)  
 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 passage	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.

\* Special category of cited documents:  
 \*A\* document defining the general state of the art which is not considered to be of particular relevance  
 \*B\* earlier document published on or after the international filing date  
 \*C\* document which may bear directly on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 \*D\* document referring to an oral disclosure, use, exhibition or other means  
 \*E\* document published prior to the international filing date but later than the priority date claimed  
 \*\* late 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  
 \*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  
 \*\* 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  
 \*A\* document member of the same patent family

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: RICHMOND DORVIL  
 Telephone No.: (703) 305-3900  
*Joni Hill*

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

Classification of S-M  
Fields searched

Documents considered to be relevant

# CCD Initial Output

Trilateral - CCD Search ? Help

Number: 09151293 [Search] [Example: EP1612402, US200600447A1, JP20090214944]

EP20090151293

Hide CCD viewer Double Inspector Timeline

View views: Citations only view Compact view Sort by country Filter

#	CC	Cat.	Citation details	Claims
1	EP	X	<p>Application N° EP20090151293 (EP09151293) - 4 February 2000</p> <p><b>National Search Report</b></p> <p><b>PADES - An automatic telephone switchboard and directory information system</b></p> <p>Authors: Kallner A, Kusber B, Seide R, Tran B-H            Publication date: SPEECH COMMUNICATION, 1997:1001 ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL            Source info: Vol.22, No.1-2, Page(s): 99 - 111</p> <p>Abstract            Page 105, column R, paragraph L - page 106, column L, paragraph 3            Figure 8</p> <p><b>National Examination</b></p> <p>WO9821079 A1 (MICROSOFT CORP [US]) - 22 May 1998</p>	1
2	AT		Application N° AT20000914516T (AT0914516) - 4 February 2000	
3	AU		Application N° AU20000035896D (AU3589600) - 4 February 2000	
4	CA		Application N° CA20002361429 (CA002361429) - 4 February 2000	
5	JP		Application N° JP20000597793T (JP2000597793) - 4 February 2000	
6	US		Application N° US20000495722 (US00495722) - 1 February 2000	
			<p><b>National Search Report</b></p> <p>US732210 A (INTERNET ANGLES INC [US]) - 24 March 1998</p> <p>US5960399 A (CITE INTERNETWORKING INC [US]) - 28 September 1999</p> <p>US5982221 A (WORDSTREAM INC [US]) - 9 November 1999</p> <p><b>Non-patent literature</b></p> <p>ACM Multimedia, Hemphill et al., "Speech-Aware Multimedia", 1996, pp. 74-78</p> <p><b>Applicant</b></p> <p>US4445187 A (BEST ROBERT H) - 24 April 1994</p> <p>US107005 A (INTELLIGENT BUSINESS SYSTEMS [US]) - 23 March 1993</p> <p>US3263085 A (WEST PUBLISHING CO [US]) - 23 November 1983</p> <p>US3269375 A (IBM [US]) - 29 November 1994</p> <p>US418948 A (WEST PUBLISHING CO [US]) - 23 May 1995</p> <p>US4447780 A (MITSUBISHI ELECTRIC CORP [JP]) - 15 August 1995</p> <p>US436100 A (IBM [US]) - 26 September 1995</p> <p>US555189 A (HITACHI LTD [JP]) - 10 September 1996</p>	

Simple families: 2 Total family members: 6 H Get all family members

**Documents considered to be relevant**

**Classifications**

EP  
 IPC G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22  
 EC G10L15/22

AT  
 IPC G06F17/28, G10L15/18, G10L13/00, G10L13/08, G10L15/00, G10L15/22  
 EC G10L15/22

AU  
 IPC G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22  
 EC G10L15/22

CA  
 IPC G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22  
 EC G10L15/22

JP  
 IPC G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22  
 EC G10L15/22

US  
 IPC G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22  
 CPC 704/E15.04, 704/E27, 704/E75  
 EC G10L15/22

WO  
 IPC G06F17/28, G10L13/00, G10L13/08, G10L15/00, G10L15/18, G10L15/22  
 EC G10L15/22

**Fields searched**

EP  
 IPC G10L

**CCD VIEWER**

**Inspector(s)**

# Common Citation Document (CCD)

Trilateral - CCD

Number:

EP20030746705
EP20060123454

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**CCD Viewer**

#	CC	Cat.	Citation details	Claims
1	EP		<b>Application N° EP20060123454</b> (EP06123454) - 3 November 2006	
National Search Report				
	X	US2003035726 A1	(TIEMANN PETER, , et al) - 20 February 2003 Page 4, paragraph 44 - page 4, paragraph 45 Figure 4	1- 9
	X	EP0541207 A1	(GEN ELECTRIC [US]) - 12 May 1993 Column 5, line 33 - column 5, line 37 Figure 2, 3	1- 9
	A	US5695321 A	(GEN ELECTRIC [US]) - 9 December 1997 Column 6, line 28 - column 6, line 32 Figure 4 - 6	2
	A	<b>Impingement cooling in a rotating curved square annular duct with crossflow effect from rib-roughened surfaces</b> <b>Authors:</b> SHOU-SHING HSIEH, JUNG-TAI HUANG, HUANG-HSIU TSAI <b>Publication data:</b> INSPEC		8,9
	2	CA	<b>Application N° CA20062567126</b> (CA002567126) - 3 November 2006	
	3	FR	<b>Application N° FR20050053357</b> (FR0553357) - 7 November	

Simple families: 1      Total family members: 6

**Inspector: classifications and fields searched**

*Classifications*

**EP**

IPC **F01D5/18**  
EC F01D9/04B, F01D5/18G2C, F01D9/06C

**CA**

IPC **F01D5/18, F01D25/12**  
EC F01D9/04B, F01D5/18G2C, F01D9/06C

**FR**

IPC **F01D5/18**  
EC F01D9/04B, F01D5/18G2C, F01D9/06C

**JP**

IPC **F01D9/02, F01D1/18**  
FI F01D1/18, F01D9/02&102  
FTERM 3G002/CA03, 3G002/CA06, 3G002/CA07, 3G002/CB01, 3G002/CB04, 3G002/CB05, 3G002/GA08, 3G002/GB01, 3G202/CA03, 3G202/CA06, 3G202/CA07, 3G202/CB01, 3G202/CB04, 3G202/CB05, 3G202/GA08, 3G202/GB01

EC F01D9/04B, F01D5/18G2C, F01D9/06C

**RU**

IPC **F01D5/18**  
EC F01D9/04B, F01D5/18G2C, F01D9/06C

Number: EP1612402

Search

examples: EP1612402, US2006000447A1, JP20090214944

EP20040425480

Enriched Citations for EPO

Hide CCD viewer Double inspector

CCD Viewer

[also published as]

Citations only view Compact view Sort by country Filter

Original document

#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP20040425480 (EP04425480) - 22 April 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
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2	AT		Application N° AT20040425480T (AT04425480) - 30 June 2004	
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6	JP		Application N° JP20090214944 (JP2009214944) - 16 September 2009 National Examination	
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United States Patent and Trademark Office  
Leblanc

[54] FUEL INJECTION PUMP 4,398,518 8/1983 Leblanc et al  
4,398,519 8/1983 Tissot et al.

[75] Inventor: Jean Leblanc, Lyons, France

[73] Assignee: Robert Bosch GmbH, Stuttgart, Fed. Rep. of Germany FOREIGN PATENT DOCUMENTS  
53-80803 7/1978 Japan .....

[21] Appl. No.: 397,712 Primary Examiner—William L. Fr

[22] Filed: Jul. 13, 1982 Assistant Examiner—Paul F. Neils  
Attorney, Agent, or Firm—Edwin I

[30] Foreign Application Priority Data  
Jul. 22, 1981 [DE] Fed. Rep. of Germany ..... 3128975

[51] Int. Cl.<sup>3</sup> ..... F02M 39/00

[52] U.S. Cl. .... 123/449; 123/458;  
417/487; 417/519

[58] Field of Search ..... 417/487, 519, 221, 244,  
417/253, 462, 505; 123/449, 450, 458, 502, 500,  
506

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ABSTRACT  
A fuel injection pump is proposed metering during the intake stroke of the fuel injection pump is effected through the cross section of which is electrically controlled switching means of the control of a fuel supply pressure conduit by means of a communicating with the pump work part of a distributor shaft, is guided rpm. By means of the oblique distributor groove and the possibility of an longitudinal displacement of the angular position at which injection is embodied in an arbitrary manner in switching valve.

5 Claims, 2 Drawing

Domestic family of citation

1/5 - ABSTRACT  
2/5 - DRAWINGS  
3/5  
4/5 - DESCRIPTION  
5/5 - CLAIMS  
1/5 - ABSTRACT

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Number: EP1612402

EP20040425480

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**Hochdruck-kraftstoffpumpe für einen verbrennungsmotor**

**Publication date:** 22 April 2004

**Inventor(s):** WATANABE TOSHIKAZU [JP]

**Applicant(s):** DENSO CORP [JP]

**Classifications:**

**International:** F02M59/44; F02M59/06; F02M59/08; F02M59/20; F02M59/46

**European:** F02M59/08; F02M59/20B; F02M59/46B

**Application number:** DE20031045154 20030929

**Priority number(s):** JP20020286361 20020930

**Abstract of DE 10345154 (A1)**

Ein Auslassventil 13 hat eine Kegelsitzfläche 14, die in einem Auslasskanal 12 ausgebildet ist, eine Ventilkugel 15, welche den Auslasskanal 12 schliesst, wenn sie auf einen Sitzabschnitt der Sitzfläche 14 aufliegt und eine Feder 16 zum Drängen der Ventilkugel 15 in eine Ventilschliessrichtung. Der Auslasskanal 12 ist mit einer zweiten Kegelfläche 17 stromaufwärts von dem Sitzabschnitt ausgebildet. Die zweite Kegelfläche hat einen Kegelwinkel, der kleiner als der der Sitzfläche 14 ist. Wenn Kraftstoff, der von einer Kraftstoffkammer 8 abgeführt wird, in die Sitzfläche 14 strömt, wird eine Strömungsrichtung des Kraftstoffs nicht abrupt geändert, sondern kontinuierlich verändert. Deshalb ist ein Strömungszustand des Kraftstoffs stromaufwärts von dem Sitzabschnitt verbessert. Folglich kann die Erzeugung von ungleichmässiger Strömung um die Ventilkugel 15 verhindert werden und die Erzeugung von unnormalem Geräusch kann verhindert werden.

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#	CC	Cat.	Citation details	Claims
1	EP		Application N° EP20040425480 (EP040425480) - 30 June 2004 National Search Report	
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X	EP	A1	EP0270720 A1 (RENAULT [FR]) - 15 June 1988 Page 5, line 12 - page 6, line 5 Figure 1, 6	1,4-8
A	EP	A2	EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989 Figure 1	1-8
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2	AT		Application N° AT20040425480T (AT04425480) - 30 June 2004	
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5	JP		Application N° JP20050120087 (JP2005120087) - 18 April 2005	
6	JP		Application N° JP20090214944 (JP2009214944) - 16 September 2009 National Examination	

Application EP20040425480

Biblio Description Claims Original document

Full document: EP 1612402 A1

5 EP 1 612 402

defined in the annexed claims. For example, it is possible to eliminate the motion-transmission device 26 and actuate the shaft 23 of the high-pressure pump 7 at a rate independent of the speed of the engine shaft 4. Also the solenoid valve 15 for draining the fuel from the accumulator 6 can be eliminated.

[0025] Furthermore, the two pumping elements 18 can be arranged in parallel and actuated in phase opposition by two different cams. Finally, the pump 7 can have a different number of pumping elements, for example three pumping elements actuated by a common cam with a phase offset of 120°.

Claims

1. A high-pressure variable-flow-rate pump for a fuel-injection system of an internal-combustion engine, comprising at least one pumping element (18), which is actuated in reciprocating motion through suction and delivery strokes and is provided with an intake valve (25) in communication with an intake pipe (10), and a delivery valve (30) in communication with a delivery pipe (8); said pump (7) being characterized in that its flow rate is regulated by a regulation device (27) for regulating the fuel supplied to said pumping element (18), said regulation device (27) being arranged on said intake pipe (10) and being designed to be actuated during the suction strokes of said pumping element (18).
2. The high-pressure pump according to Claim 1, in which said intake valves (25) are in communication with a common intake pipe (10), said pump being

20.99 x 29.70 cm

US4501246.A (EP20040425480) [also published as]

Biblio Description Claims Original document

Full document: US 4501246 (A)

246

4

shaft and variable opening times of the switching valve 16, it is possible for an arbitrary fuel quantity to come to the point of injection within an arbitrary range of the possible supply stroke of the pump pistons 3. With an appropriately embodied control device, arbitrary injection times and injection durations can be attained in accordance with temperature, load, rpm and other engine parameters.

The foregoing relates to a preferred exemplary embodiment of the invention, it being understood that other embodiments and variants thereof are possible within the spirit and scope of the invention, the latter being defined by the appended claims.

What is claimed and desired to be secured by Letters Patent of the United States is:

1. A fuel injection pump having at least one pump work chamber enclosed in a cylinder by at least one pump piston, which is actuated by cam means in synchronism and constant relation to drive means of said injection pump, said pump work chamber being in continuous communication with a distributor opening in an axially displaceable distributor shaft which is rotated by said drive means in synchronism therewith within a cylinder and is capable of being connected thereby with one of a series of supply lines distributed over the circumference of said cylinder which lead from said cylinder to a fuel injection point, said point being effected in sequence during the supply stroke of said pump piston, further wherein said pump work chamber is in continuous communication with a control groove in a jacket face of said distributor shaft, with control groove arranged to cooperate with a fuel inlet opening which discharges into said cylinder and wherein the rotary and axial position of a part of said control groove that coacts with said fuel inlet opening relative to said drive means is variable by an axial displacement of said distributor shaft characterized in that said fuel inlet opening is

20.99 x 29.70 cm



Number: WO1999EP02462

Search

examples: EP1612402, US2006000447A1, JP20090214944

EP20040425480

WO1999EP02462

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#	CC	Cat.	Citation details	Claims
1	WO		Application N° WO1999EP02462 (WOEP9902462) - 13 April 1999 National Search Report	
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Inspector: classifications and fields searched

Classifications

WO

IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

AT

IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

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IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

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IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

CA

IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

CN

IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

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IPC A61K31/662, A01N57/00, A61K31/00, A61K31/66, A61K31/661, A61P31/00, A61P31/04, A61P31/12, A61P33/02, A61P33/06

EC A61K31/66, A61K31/662

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Total family members: ≈136

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examples: EP1612402, US2006000447A1, JP20090214944

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WO1999EP02462

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#	CC	Cat.	Citation details	Claims
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3	AU		Application Nº AU19990041208 (AU4120899) - 13 April 1999	
4	AU		Application Nº AU19990041208D (AU4120899) - 13 April 1999	
5	BR		Application Nº BR19990009668 (BR9909668-4) - 13 April 1999	
6	CA		Application Nº CA19992328159 (CA002328159) - 13 April 1999	
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9	HU		Application Nº HU20010001716 (HU01 01716) - 13 April 1999	
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15	TR		Application Nº TR2000/02965 (TR2000/02965) - 13 April 1999	
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19	AU		Application Nº AU19990051580D (AU5158099) - 9 July 1999	
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22	CA		Application Nº CA19992336143 (CA002336143) - 9 July 1999	

“+” separator between simple families plus different background shading

Actual number of simple families

Application BR19990009669

Biblio Description Claims Original document

*Bibliographic data: BR 9909669 (A)*

Processo para identificação de ingredientes químicos ativos e de ingredientes ativos para inibição da via de biossíntese de 1-desóxi-d-xilulose-5-fosfato

**Publication date:** 19 December 2000

**Inventor(s):** HASSAN JOMAA

**Applicant(s):** JOMAA HASSAN [DE]

**Classifications:** **International:** C07K14/00

**Application number:** BR19990009669 19990413

**Priority number(s):** DE19981016196 19980414  
DE19981025585 19980609  
097 19980624  
637 19980715  
2463 19990413

**Abstract of BR 9909669 (A)**

Patente de Invenção

"PROCESSO PARA IDENTIFICAÇÃO DE INGREDIENTES QUÍMICOS ATIVOS E DE INGREDIENTES ATIVOS PARA INIBIÇÃO DA VIA DE BIOSÍNTESE DE 1-DESÓXI-D-XILULOSE-5-FOSFATO". A invenção refere-se a um processo para a obtenção de ingredientes químicos ativos que são adequados para o tratamento de doenças infecciosas causadas por parasitas unicelulares ou multicelulares. Com este processo as proteínas que estão envolvidas na via metabólica do 1-desóxi-D-xilulose-5-fosfato ou derivados das mesmas que atuam similarmente são colocados em contato com os ingredientes ativos que terão sua atividade investigada em relação aos parasitas, e os ingredientes ativos que inibem as proteínas ou seu derivados são selecionados. A invenção também refere-se aos ingredientes ativos descobertos para a produção de composições farmacêuticas contra as infecções parasiticas.

# Espacenet citations view

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Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
<b>1. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM</b>					
★ LUCENTE MARK [US] POLISH NATHANIEL [US]	SOLQUE SOFTWARE LTD LIABILITY [US]	<a href="#">G10L15/22</a>		AT422089 (T) 2009-02-15	1999-02-04
<b>2. System and method for bilateral communication between a user and a system</b>					
★ LUCENTE MARK POLISH NATHANIEL	SOLILOQUY INC	<a href="#">G10L15/22</a>		AU3589600 (A) 2000-08-25	1999-02-04
<b>3. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM</b>					
★ POLISH NATHANIEL [US] LUCENTE MARK [US]	SOLILOQUY INC [US]	<a href="#">G10L15/22</a>		CA2361429 (A1) 2000-08-10	1999-02-04
<b>4. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM</b>					
★ LUCENTE MARK [US] POLISH NATHANIEL [US]	SOLILOQUY INC [US]	<a href="#">G10L15/22</a>	XP004117212	EP1163665 (A1) 2001-12-19 EP1163665 (A4) 2005-09-14 EP1163665 (B1) 2009-01-28	1999-02-04
<b>5. System and method for bilateral communication between a user and a system</b>					
★ LUCENTE MARK [US] POLISH NATHANIEL [US]	SOLQUE SOFTWARE LTD LIABILITY [US]	<a href="#">G10L15/22</a>	W09821679 A1 XP004117212	EP2085963 (A1) 2009-08-05	1999-02-04
<b>6. SYSTEM AND METHOD FOR BILATERAL COMMUNICATION BETWEEN A USER AND A SYSTEM</b>					
★ Inventor:	Applicant:	<a href="#">G10L15/22</a>		JP2002536755 (A) 2002-10-29	1999-02-04
<b>7. Bilateral speech system</b>					
★ POLISH NATHANIEL [US]	SOLILOQUY INC [US]	<a href="#">G10L15/22</a>	US4445187 A US5197005 A US5265065 A US5369575 A US5418948 A (+19)	US6430531 (B1) 2002-08-06	1999-02-04

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# German Patent Office **DPMA**register

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Aktenzeichen DE: 10 2005 050 747.6








Schutzrechtsart: Patent

Status: anhängig/in Kraft

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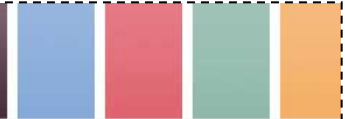
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	Schutzrechtsart	SART	Patent
	Status	ST	Anhängig/in Kraft
21	Aktenzeichen DE	DAKZ	10 2005 050 747.6
54	Bezeichnung/Titel	TI	Multiplex-Sender für Polymerfaserübertragung und Verfahren zu dessen Herstellung
51	IPC-Hauptklasse	ICM (ICMV)	H04J 14/02 (2006.01)
22	Anmeldetag DE	DAT	22.10.2005
43	Offenlegungstag	OT	26.04.2007
71/73	Anmelder/Inhaber	INH	ESA Patentverwertungsagentur Sachsen-Anhalt GmbH, 39114 Magdeburg, DE; Hochschule Harz (FH), 38855 Wernigerode, DE
72	Erfinder	IN	Ulrich, Prof. Dr. Fischer-Hirchert, 38640 Goslar, DE
74	Vertreter	VTR	Sperling, Fischer & Heyner Patentanwälte, 39108 Magdeburg, DE
10	Veröffentlichte DE-Dokumente	DEPN	<a href="#">DE102005050747A1</a> 
	Zustellanschrift		Sperling, Fischer & Heyner Patentanwälte, 39108 Magdeburg, DE
	Fälligkeit	FT FG	31.10.2011 Jahresgebühr für das 7. Jahr
	Zuständige Patentabteilung		55
57	Zusammenfassung	AB	Die Erfindung betrifft einen Multiplex-Sender für Polymerfaserübertragung und ein Verfahren zu dessen Herstellung. \$A Erfindungsgemäß besitzt der Multiplex-Sender einen Grundkörper mit Aussparungen, in denen Wellenleiter der Eingangskanäle sowie Wellenleiter des oder der Ausgangskanäle angeordnet sind, wobei sowohl der Grundkörper mit Aussparungen als auch die Wellenleiter Spritzgussteile sind. \$A Im Verfahren zur Herstellung eines Multiplex-Senders für Polymerfaserübertragung werden in einem ersten Verfahrensschritt der Grundkörper mit den Aussparungen als Spritzgussteil hergestellt, während in einem zweiten Verfahrensschritt die Wellenleiter ebenfalls durch Spritzguss in Aussparungen des Grundkörpers eingebracht werden.
56	Entgegenhaltungen	CT	<a href="#">DE000019716838A1</a>  <a href="#">DE000010323032A1</a>  <a href="#">DE000069030437T2</a>  <a href="#">US000006356692B1</a>  <a href="#">US020050175347A1</a>  <a href="#">US020050069013A1</a> 
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2013-01-04	<a href="#">Note Entlmnt 02-01-2013 SMBM-17777334</a>	NOTE ENTLMNT	FILED	14	<input type="checkbox"/>
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Thank you

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