

# Topic 6: Retrieval and Comparison of Prior Art Citations

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Head, International Cooperation on Examination and Training Section

**Cybercity** March 29, 2022

### Agenda

- Types of prior art citations
- Search reports, list of citations
- Retrieval options
- Comparing search reports: CCD



# Work-Sharing in the PCT national phase

Utilizing examination work products from other national phases for improving **efficiency** and **quality** requires

#### **Databases/platforms** providing

- Patent family information (family table) [>Topic 2]
- **Examination status of family members** [>Topic 3]
- Access to examination work products (dossiers, file wrappers) of family members [>Topic 4]
- Ideally, platforms which integrate this information in a user-friendly manner, e.g. within family table; and with additional tools, for example, for comparing work products (Common Citation Document CCD) [>Topic 6]
- Information on differing national practices (naming and content of work products; important case law; exclusions; ..)

WORLD INTELLECTUAL PROPERTY ORGANIZATION

### Types of citations/references

Prior art relevant for patentability of claimed subject matter may be

- Cited by an applicant
- Cited by an examiner or other official search/examination bodies
- Cited by third parties (for example, Sect. 801 of PCT AI)
- Citations may originate from
  - Substantive examination before grant
  - Opposition, re-examination, revocation, ... after grant
  - Patents
    - can cite other patents as prior art (backward citations)
    - can be cited by other patents (forward citations)



## **Foreign Citations for Work-Sharing**

- Useful for assessing novelty/obviousness
  - Limited expertise in search (search skills)
  - Limited access to professional or specialized databases
  - Limited time
- Useful for selecting foreign claims sets already granted
  - Claim sets granted in jurisdictions where additional substantial prior art was considered may be more trustworthy
  - Additional prior art may convince applicant to accept claim proposals
- Need to be checked prior to grant decision
  - If additional relevant prior art was found in other jurisdictions you need to consider it before granting
  - Should be applied even when bilateral work-sharing agreements like PPH, Validation, Reinforced Cooperation or Parallel Patent Grant Initiative are in place



#### Samples of prior art citations

i.

					Unite Li et al.	d State	es Patent		Patent No.: Date of Patent:	US 8,296,619 B2 Oct. 23, 2012
))	International Sector Control C	RT	ER	(54)	INDICAT	ING A TEM	RATUS FOR PORARY BLOCK FLO	(56) W	Reference U.S. PATENT D	
	DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where appropriate,	Relevant	CLASS				BACKED ACK/NACK			0000000 202 00000000000000000000000000
Categor	<sup>y</sup> of relevant passages	to claim	APPLIC		FIELD IS	ADDRESSE	D	э,		oith et al 714/758
X Y	EP 0 813 338 A2 (ROCKWELL INTERNATIONAL CORP [US]) 17 December 1997 (1997-12-17) * column 6, line 12 - column 8, line 26 * * column 8, line 52 - column 9, line 4; figure 1 * US 6 128 039 A (CHEN DATONG [US] ET AL)	1-13	INV. GOITJ	(75)	Inventors:	G. Dick, Nes Prabhakar I (US); Maria	ter Valley, PA (US); Stepl sconset, NY (US); R. Chitrapu, Blue Bell, F n Rudolf, Vitre (FR);		(Contin FOREIGN PATEN 1 376 950 (Contin	T DOCUMENTS 1/2004
	3 October 2000 (2000-10-03) * column 3, line 57 - column 4, line 28; figure 2 *						hili, Melville, NY (US); Manseta, Yardley, PA (U	IS)	OTHER PUBI	
Y	US 6 163 029 A (YAMADA SHINICHI [JP] ET AL) 19 December 2000 (2000-12-19) * column 15, line 30 - column 16, line 45; figures 2,15,16 *	1,3-7		(73)	Assignee:	InterDigital Wilmington,	Technology Corporation DE (US)	Group	eneration Partnership Pr	oject, "Technical Specification ess Network; Channel coding
•	FR 2 864 628 A1 (COMMISSARIAT ENERGIE ATOMIQUE [FR]) 1 July 2005 (2005-07-01) * page 4, line 18 - page 6, line 15; figure 3 *	1-13	тесни	(*)	Notice:	patent is ext	y disclaimer, the term of ended or adjusted under b) by 981 days.	this 35	(Contin	uued)
A,D	WO 2004/064168 A1 (SCHERRER INST PAUL	1-13	TECH			0.5.0. 154(0	) by 961 days.		y Examiner — Scott Bac	
	[CH]; BROENNIMANN CHRISTIAN [CH]; SCHMITT BERND [CH] 29 July 2004 (2004-07-29)		G01T	(21)	Appl. No.	12/106,138		Assista	n <u>t Examiner</u> — Jeison C	Arcos
	* the whole document *						Cited in	International searc	h [X] <sup>™</sup> <u>US4268635</u> (HOY	LESLIE R J, et al) [X] 1-17 * the whole docume
E	WO 2009/131151 A1 (HAMAMATSU PHOTONICS KK [JP]; MORI HARUMICHI [JP]; KYUSHIMA RYUJI	1	_		-[;		1		[X] <i>™</i> <u>DE19513403</u> (BA	SF AG [DE]) [X] 1-17 * the whole document *;
	[JP];) 29 October 2009 (2009-10-29) * figure 12 *								[X] <i></i>	UNIV TSINGHUA [CN], et al) [X] 1-17 * the who
							r 1 1 1		[A] <i></i> <u>US4804724</u> (HAR document *	RIS JAMES E [US], et al) [A] 1-17 * the whole
							1	by applicant	→ <u>WO2007071780</u>	
							1 1		→ <u>US4268635</u>	
							1		→ <u>DE19513403</u>	
		-							→ WO2004096418	
	The present search report has been drawn up for all claims Place of search Date of completion of the search		Framiner		4		I	Opposition	→ EP0332012	
	The Hague 23 March 2010	Wu	lveryck,	J					→ <u>JP2006028414</u>	
	CATEGORY OF CITED DOCUMENTS T : theory or princip E : earlier patient do	e underlying the sument, but pub	invention lished on, or		7i				→ EP2000492	
Y:pi do A:te	urticularly relevant if taken alone after the filing dat urticularly relevant if combined with another D : document offed i cument of the same category L : document cited if homological background	n the application or other reasons					 		→ <u>EP0030033</u>	
0:n	on-written disclosure & : member of the site	ame patent famil	ly, corresponding							

VIPU WORLD INTELLECTUAL PROPERTY ORGANIZATION

#### **Overview: Access to prior art citations**

Citations/references are usually presented as

- Bare listings of citations, for example lists of publication numbers only
- Citations in search reports supplemented with further useful information

Search reports are available as:

- Regular patent publications (EP-A1/A3/A4, WO-A1/A3)
- Electronic documents accessible through file/dossier access platforms, such as online registers, Global Dossier, WIPO CASE

Bare lists of citations are usually available

- On front pages of publications of granted patents, republications after opposition (EP-B1/B2..)
- Through separate links or integrated tables in patent databases, such as national registers (e.g. DE or EP Register) when viewing individual applications
- Trilateral Common Citation Document (CCD)



### International Search Report (ISR)

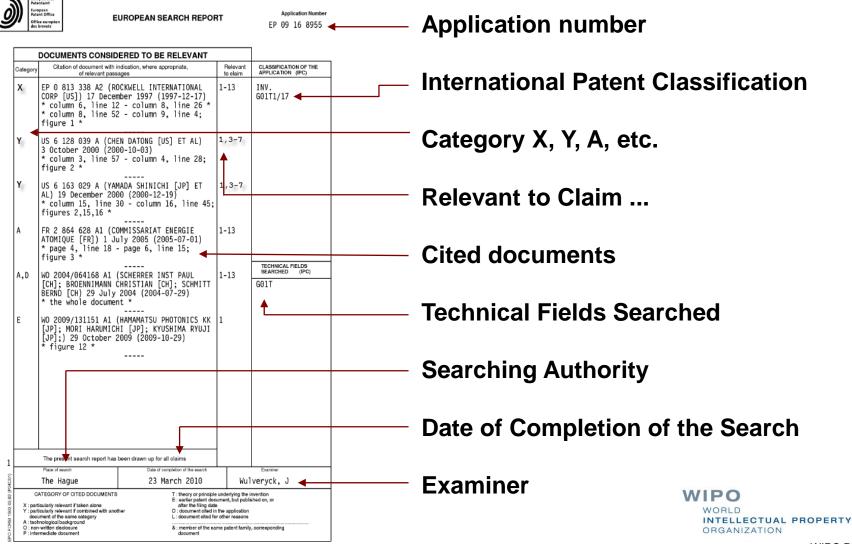
- Established by (selected) competent ISA
- Search based on claims as originally filed (Article 15)
  - Limited utility of ISR for amended claims in national phase
- Search performed according to PCT Examination Guidelines
- Prior art is everything made available to the public (Rule 33)
  - in written disclosure (ISR may refer to oral disclosure, exhibition, though)
  - prior to the international filing date (i.e. priorities are not taken into account for the international search)
- Not any written disclosure is to be searched: only PCT minimum documentation (Rule 34)
- In case of lack of unity, only the "first" invention will be searched (Rule 40), unless additional fees are paid
- ISA can decline search of certain subject matter (Rule 39), namely subject matter that is excluded from patentability in national law (PCT does not define what is patentable!)

### ISR

ISR is "enriched" search report as it includes

- List of relevant prior art documents (citations) plus indications:
- Claims for which a citation is relevant
- Parts of the cited document which are relevant (e.g. 'line 5-6, page 7; drawing 6') for those claims
- Why the document is relevant (challenging novelty, inventive step; describing background art)
- IPCs of the claimed subject matter
  - Limited search strategy: technology areas (IPC) searched
- Includes observations regarding lack of unity (Box III), or whether no meaningful search could be performed (clarity of claims)

#### Enriched prior art search reports



### **Categories of citations**

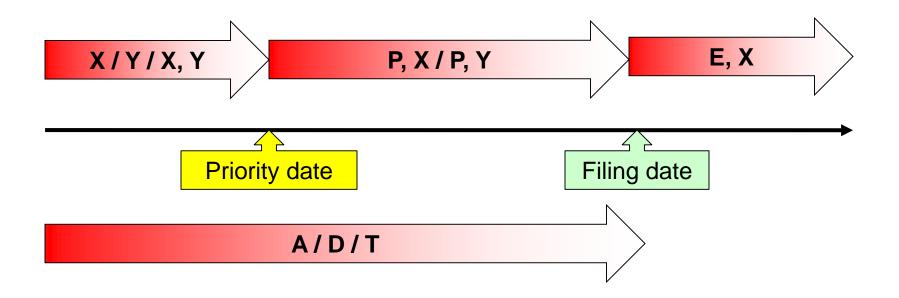
- X particularly relevant if taken alone (novelty)
- Y particularly relevant if combined with another document of the same category (inventive step)
- A technological background
- O non written disclosure
- P intermediate document, i.e. published between the earliest priority date and the filing date
- E earlier document but published on or after the filing date
- T theory or principle underlying the invention
- D document cited in the application
- I (applied by EPO for limited period of time)

See 16.59ff of the PCT Examination Guidelines



#### **Prior art categories**

Publication dates of prior art documents





#### Publications of search reports

- ISRs are published as WO-A1 or WO-A3 documents
- In addition to the PCT, only the EPO publishes search reports
  - EP-A1 or A3 similar to WO-A1 or A3
  - EP-A4 for supplementary European search reports if examiners conduct additional searches
- No other IPO publishes search reports, they are only made publicly available through national registers ('laid open for public inspection')
- Accessible as well through Global Dossier and WIPO CASE
- Citation information is also made available through other interfaces of various databases (not in Patentscope, though)



#### **US-PAIR: search report US examiner**

		Notice of Reference	s Cited		Application/Co 11/689,638 Examiner REGINA YOO		Applicant(s)/ Reexaminati COX ET AL. Art Unit 1773	Patent Under on Page 1 of 1	
•	* Document Number Date				ATENT DOCUME				
Ĺ	L	Country Code-Number-Kind Code	MM-YYYY			▶me		Classification	
*	A	US-4,662,516 A	05-1987	Bakere	et al.			206/363	
*	в	US-5,003,892 A	04-1991	Bricken	ı, Jonathan			110/346	
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### US-PAIR: prior art in image file wrapper

"Image File Wrapper" contains search and examination reports

09-28-2	006		WFEE	Fee Wo	orkshee	<u>et (SB06)</u>	PROS			ECUTION	1	
04-28-2	006	i	CTNF	Non-Fi	nal Rej	ection			PROS	ECUTION	10	
04-28-2006 1449 List of Refere examiner			References cited by applicant and considered by ner			PRIC	OR ART	1				
			ices cited by examiner			PRIC	PRIOR ART					
			Index	Index of Claims				PROS	ECUTION	1		
	Notice of References Cite			s Cited		Application/Control No. 11/093,685 Examiner	Applicant(s) Reexaminat CHAN ET A Art Unit	ion	11 Under Page 1 of 1			
						Tina M. Wong	2874					
			Document Number	Date	0.3. FA							
	* Country Code-Number-Kind Code MM-YYYY			Name Cla			Classification					
	* A US-6,081,638 06-2000 Zhou, P			ling			385/31					
	*	в	US-6,842,467	01-2005	Aronsor	Aronson et al.		372/27				
	* c US-5,179,420 01-1993 So et a		So et al			356/73.1						
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		Е	US-									

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

#### **US-PAIR:** prior art tab

_11/689,638	Heat Processing Systems	Apparatuses, and Methods for Co	n and Disposal of Infectious and Medical Waste
	on Transaction Image File Cor		1
Reference Forms			
Mail Room Date 🕂	🚺 Document Code 👫	Document Description	
02-24-2011	892	List of references cited by examiner	
09-16-2010	1449	List of References cited by applicant an	d considered by examiner
08-16-2010	IDS	Information Disclosure Statement (IDS	) Form (SB08)
06-23-2009	892	List of references cited by examiner	
06-23-2009	1449	List of References cited by splicant and	d considered by examiner
09-12-2007	IDS	Information Disclosure Statema (IDS)	) Form (SB08)
Foreign Patent an	d Non-Patent Docume	5	
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08-16-2010	NPL	Non Patent Literature	
08-16-2 <u>010</u>	NPL	Non Patent Literature	
<sup>08-16-</sup> List of re	ferences cited by	Non Patent Literature	List of references cited by
08-16-1		Non Patent Literature	
09-12-	applicant	Foreign Reference	examiner
09-12-2007	FOR	Foreign Reference	
09-12-2007	FOR	Foreign Reference	

#### **US Final and Non-Final Rejections**

Relevance of citations (X, Y) can (currently) only be derived from the reasons of rejections stated in US examination reports and decisions ('final' and 'non-final rejections')

[	9. Claims 1, 8-10, 15-16, 34, 39-40, 42, 51, 63, 68, 69 and 79 are rejected	under 35 U.S.C. 102(b)	
	as being anticipated by Tibor (Tibor) (US Pub. No. 2004/0234117).		
	As per claim 1 Tibor discloses:		
	A secure universal transaction system, comprising: an operation	ource component,	
	including a first biometric security component, a second security component, (pa	g 33, the	
	central system 12 can be remotely located from the electronic transaction station		
	location as the electronic transaction station, e.g., an in-store central processor a	'Claims 1,	8-10, not
		novel ir	n view of
		US20040	)23117A1'

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

#### US search reports in Global Dossier

17.11.2011	List of References cited by applicant and considered by examiner
17.11.2011	Notice of Allowance and Fees Due (PTOL-85)
17.11.2011	Examiner's search strategy and results
17.11.2011	Search information including classification, databases and other search related notes
17.11.2011	List of References cited by applicant and considered by examiner
17.11.2011	Bibliographic Data Sheet
17.11.2011	Foreign Reference
17.11.2011	List of References cited by applicant and considered by examiner
17.11.2011	Issue Information including classification, examiner, name, claim, renumbering, etc.
17.11.2011	List of references cited by examiner



#### WO2011113363

#### **Espacenet: Backward Citations**

Europäisches Patentamt European Patent Office	Espacenet Patent search	Deutsch English Français Contact
Office européen des brevets	Patent search	Change country 🔻
About Espacenet Other EPO	online services 🔻	
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WO2011113363 (A1) → Citations		
WO2011113363 (A1)	Cited documents: WO2011113363 (A1) — 2011-09-22	
Bibliographic data		
Description	□ Select all (0/3)	🔒 Print
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Original document		
Cited documents	Sort by Priority date Sort order Descending Sort	
Citing documents		
INPADOC patent family	International search citation	
	□ 1. Agomelatine halogen hydride complex and preparation thereof	
Quick help —	★ Inventor: Applicant: CPC: IPC: PENG ZHANG SHANGHAI INST PHARM INDUSTRY C07C233/18 C07C233/18	Publication info: Priority date: CN101481321 (A) 2009-02-27
What are cited documents?     Can I export this list?     What happens if I click on     "Download covers"?     What happens if I click on the	[CN] [CN] HANBIN SHAN [CN] (+8)	2009-07-15 CN101481321 (B) 2012-04-18
star icon?	2. New crystal form of Agomelatine, preparation method and use thereof	
	Inventor:         Applicant:         CPC:         IPC:           HANBIN SHAN         SHANGHAI INST PHARM INDUSTRY         A61K31/165         A61K31/165           [CN]         [CN]         [CN]         A61P25/00           [CN]         (+7)         (+6)	Publication info:         Priority date:           CN101585779 (A)         2009-03-10           2009-11-25         CN101585779 (B)           2014-04-02         CONDENSION (CONDENSION)
	Patents cited by the applicant	
	3. Agomelatine halogen hydride complex and preparation thereof	
	★         Inventor:         Applicant:         CPC:         IPC:           PENG ZHANG         SHANGHAI INST PHARM INDUSTRY         C07C233/18         C07C233/18         C07C233/18           [CN]         [CN]         [CN]         HANBIN SHAN         C07C233/18         C07C233/18           [CN]         [CN] <t< td=""><td>Publication info:         Priority date:           CN101481321 (A)         2009-02-27           2009-07-15         CN101481321 (B)           2012-04-18</td></t<>	Publication info:         Priority date:           CN101481321 (A)         2009-02-27           2009-07-15         CN101481321 (B)           2012-04-18

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

## Citations in Inpadoc family list

Europaisches Patentamt European Patent Office Office européen des brevets	Espacenet Patent search				Deutsch Engl Chang	ish Français Contact ge country ▼		
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▲ About Espacenet Other EPO or								
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EP2570899 (A2) → US2013069890 (A	A1) → Family page 1							
WO2011113363 (A1)	Family list: WO	2011113363 (A1) — 3	2011-09-2	22				
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Description	Select all (0/25)	Compact ⊖ Export (CSV	XLS) ↓	Download covers A CCD		🔒 Print		
Claims				· · · · ·				
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Original document						page 1		
Cited documents								
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INPADOC legal status	1. AGOMELATINE H	DROBROMIDE HYDRATE AND		ON THEREOF				
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Quick help –	SHAN HANBIN [CN]	SERVIER LAB [FR] SHAN HANBIN [CN]	A61K31/165 C07C233/18	CN101481321 A CN101585779 A	WO2011113363 (A1) 2011-09-22	2010-03-17		
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star icon? → What is a patent family?	Inventor: ZHANG PENG	Applicant: SERVIER LAB [FR]	CPC: Cita A61K31/165 C07C233/18	Citations:	Publication info: AP3199 (A)	Priority date: 2010-03-17		
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published several times in the same country?	Inventor: SHAN HANBIN	Applicant: SERVIER LAB	CPC: A61K31/165	Citations: US2011313198 A1	Publication info: AU2011229619 (A1)	Priority date: 2010-03-17		
bano boanay.	YUAN ZHEDONG		C07C233/18		2012-09-27			
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	4. AGOMELATINE H	DROBROMIDE HYDRATE AND	PREPARATIO	ON THEREOF				
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	Inventor: SHAN HANBIN	Applicant: SERVIER LAB [FR]	CPC: A61K31/165	Citations:	Publication info: CA2792430 (A1)	Priority date: 2010-03-17		
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	YUAN ZHEDONG [CN]				CA2792430 (C) 2015-12-08			
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#### WORLD INTELLECTUAL PROPERTY ORGANIZATION

### Citations (enriched) in EP-Register - 1

Patentamt European Patent Office Office européen des brevets	Euro	pean Patent	t Register	+		Deutsch English	Français Contact
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Citations		Туре:	Patent literature				1
Patent family         Publication No.:         > US2011005662         [XY]           All documents         (SUNG KUO-HUA [US]) [X] 1-6,9-11,14 par. 21, 27, 30, 38, 41, 42, 43, 44, fig. 4					, 43, 44 , fig. 4 [Y] 7-8,12	<u>-</u> 13,15	
		Туре:	Patent literature				i
Quick help –	-	Publication No.:	>> WO2011112447 [Y] (3M INNOVATIVE PROF	PERTIES CO	[US], et al) [Y] 7-8,12-13 p. 1	1 , l. 28-31	
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News flashes + Type: Patent literature							
Related links +		Publication No.:	↗ <u>US2010302195</u> [A] (WANG WEN-CHUN [TV	V], et al) [A] ′	l,10 par. 0020 , fig. 5a		
		Туре:	Patent literature				

#### EP2570899

### Citations (enriched) in EP-Register – 2

<i>)</i> )	Europāisches Patentamt European Patent Office Office européen des brevets	Europea	n Patent	Regis	ter		Deutsch	English	Français Contact
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						[A] <b>≯</b> <u>US20103021</u> * paragraph [0020]	95 (WANG WEN-CHUN ; figure 5a *;	N [TW], et a	al) [A] 1,10
							01 (MATSUHIRA TSUT 0039] , [0 44] , [0 46]; fig		



#### **NON-PL** Citations in EP-Register

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Federated register Type: Non-patent literature								
Event history		Type.						
Citations		Publication information:	[A] - DUDEK T ET AL, "Replication-defective viruses as vaccines vol. 344, no. 1, ISSN 0042-6822, (20060105), pages 230 - 239, (20060105)					
Patent family			page 106, paragraph L *	.0000103), XF024030310 [A] 1-13				
All documents		DOI:	۸ http://dx.doi.org/10.1016/j.virol.2005.09.020					
Quick help –	1	Туре:	Non-patent literature					
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<ul> <li>What does the letter in square brackets next to the publication</li> </ul>		DOI:	A http://dx.doi.org/10.1016/j.virol.2006.04.	Identifier				
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Maintenance news +	news + Publication information: [T] - WIDMAN DOUGLAS G ET AL, "Third encapsidation-defective viruses.", ADVANG Linking to publish							
News flashes +			0065-3527, pages 77 - 126, XP009122428					
Related links +			1940 L					

# Citation during opposition (EP Register)

Cited in	International search	[X] <sup>,</sup> US4268635 (HOY LESLIE R J, et al) [X] 1-17 * the whole document *;
		[X] <sup>,</sup> <u>DE19513403</u> (BASF AG [DE]) [X] 1-17 * the whole document *;
		[X]. <u>WO2004096418</u> (UNIV TSINGHUA [CN], et al) [X] 1-17 * the whole document *;
		[A] <sup>,</sup> <u>US4804724</u> (HARRIS JAMES E [US], et al) [A] 1-17 * the whole document *
	by applicant	→ <u>WO2007071780</u>
		→ <u>US4268635</u>
		→ <u>DE19513403</u>
		→ <u>WO2004096418</u>
	Opposition	→ <u>EP0332012</u>
		→ <u>JP2006028414</u>
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		→ <u>EP0030033</u>

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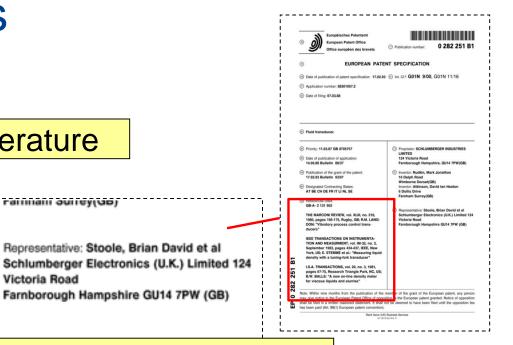
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Patent literature

raminani ourrey(GD)

Victoria Road



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Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid (Art. 99(1) European patent convention).

#### WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

#### Third party observations

#### Overview:

http://www.wipo.int/scp/en/revocation\_mechanisms/third\_party/index.html

- For PCT, possible according to Section 801ff of Administrative Instructions
- Searchable in Patentscope: TPO:(\* to \*)
- Retrievable through tab "Documents"

Search and Examination-Related Documents							
Date	Title	View	Download				
26.05.2017	Third Party Observation	PDF (2p.)	PDF (2p.), ZIP(XML + TIFFs)				
26.05.2017	Additional comments submitted with observation	PDF (15p.)	PDF (15p.), ZIP(XML + TIFFs)				
24.04.2017	Third Party Observation	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)				
24.04.2017	Third Party Observation	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)				
16.03.2017	International Search Report	PDF (4p.)	PDF (4p.), ZIP(XML + TIFFs)				
16.03.2017	Written Opinion of the International Search Authority	PDF (9p.)	PDF (9p.), ZIP(XML + TIFFs)				
16.03.2017	Search Strategy	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)				

### Third party observations

		Appli	cant's or agent's file ref 16F	erence F064-PCT		
		Interr	International application number International Application PCT/JP2016/071237			nal filing date (day/month/year) 20 Jul 2016 (20/07/2016)
		Appli	cant	(EN) HIROSHI	MA UNIVE	RSITY (+1)
		Third	party observation subr	nitted by NONYMOUS	Observati	on submitted on behalf of
Citation # 1(Periodica	al article) (# uploaded do	i	of submission(day/mon 17 Jun 20	th/year) 017 (17/06/2017)	Language	of observation Japanese
Author: Tae Sub Park	Title of article: Targeted gene knockout in chickens mediated by TALENs	Title of Perio	,	Publication Date: 02 Sep 2014 (02/09/ 2014)		
Issue Number of Periodical: 111	Publisher of Periodical:	l	Place of publica	ition:		Reference
Page range of article within ISBN: periodical: 2716–12721		ISSN:				
DOI:			1			
Most relevant passages or dra p12719 Discussion	wings:		Relevant to 1-2, 4			Explanation
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#### **Backward and forward citations**

#### Patents

can cite other patents as prior art (backward citations)

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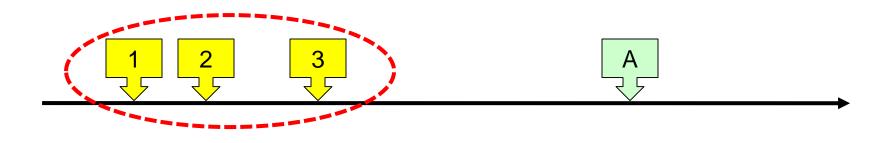


#### Backward and forward citations

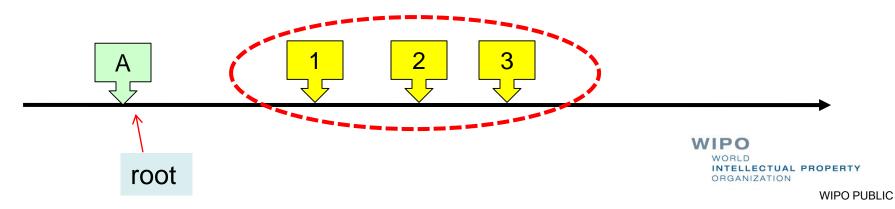
For any publication A:

**Time dimension** 

Publications **cited** in A → Backward citations of A

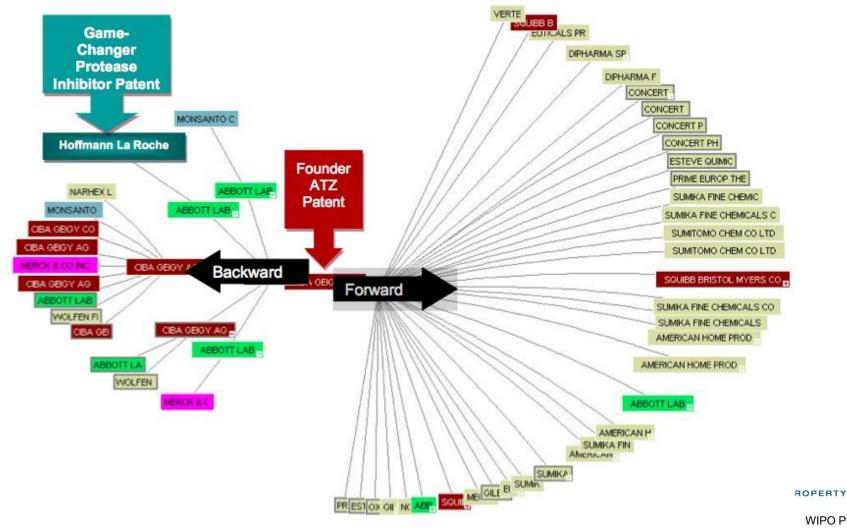


Publications citing A -> Forward citations of A



#### Atazanavir – citation map

#### Figure 29. Citation map of the founder composition patent for Atazanavir



#### **Espacenet: Forward Citations**

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44 About Espacenet Other EPO		
	y patents list (0) Query history Settings Help	
<u>WO2011113363 (A1)</u> → Citations		
WO2011113363 (A1)	Citing documents: WO2011113363 (A1) — 2011-09-22	
Bibliographic data	□ Select all (0/3)	Print
Description		
Claims	3 documents citing WO2011113363 (A1)	
Mosaics		
Cited documents		
Citing documents	Sort by Priority date Sort order Descending Sort	
INPADOC legal status	□ 1. Agomelatine methanesulfonic acid complex and preparation method thereof	
Quick help -	Inventor:         Applicant:         CPC:         IPC:           HAIPING WANG         SHANGHAI RIGHT HAND MEDICAL         A61K31/1           CHENG CHI         TECHNOLOGY DEV CO LTD         A61P1/00           (+3)         (+6)	2012-10-10
What happens if I click on "Download covers"?	2. SOLID PHARMACEUTICAL COMPOSITION FOR ORALLY DELIVERING AGOMELATI	INE
→ What are citing documents?     → Why do some documents not     have any citing documents?     → What happens if I click on the     star icon?	★         Inventor:         Applicant:         CPC:         IPC:           THARRAULT         SERVIER LAB [FR]         A61K31/165         A61K31/165         A61K31/1           FRANCOIS [FR]         THARRAULT FRANCOIS [FR]         A61K9/0056         A61K9/00         A61K9/00           POIRIER CECILE         (+3)         (+3)         (+3)         (+3)	2013-02-14
	3. Solid pharmaceutical composition for buccal administration of agomelatine	
	Inventor:         Applicant:         CPC:         IPC:           THARRAULT         SERVIER LAB [FR]         A61K31/165         A61K31/1           FRANCOIS [FR]         POIRIER CECILE         A61K9/0056         A61K9/005           [FR]         (+3)         (+3)         (+3)	2013-02-13

#### WORLD INTELLECTUAL PROPERTY ORGANIZATION

#### **Google patents: Forward Citations**

Agomelatine hydrobromide hydrate and preparation thereof

#### Abstract

An agomelatine hydrobromide hydrate of formula (I), in which X is Br, preparation method and use thereof as well as pharmaceutical composition containing it are provided. The solubility of the agomelatine hydrobromide hydrate obtained by the present method is significantly higher than that of agomelatine. Therefore, it is more suitable for manufacturing pharmaceutical formulations. In addition, the product has higher stability and purity. The present product of high purity can be obtained through a simple process, rather than process with complicated steps.

#### Classifications

**C07C233/18** Carboxylic acid amides having carbon atoms of carboxamide groups bound to hydrogen atoms or to acyclic carbon atoms having the nitrogen atom of at least one of the carboxamide groups bound to a carbon atom of a hydrocarbon radical substituted by singly-bound oxygen atoms with the substituted hydrocarbon radical bound to the nitrogen atom of the carboxamide group by an acyclic carbon atom having the carbon atom of the carboxamide group bound to a hydrogen atom or to a carbon atom of an acyclic saturated carbon skeleton

View 1 more classifications

#### WO2011113363A1

**WO** Application

Application number: PCT/CN2011/071912

Other languages: French

Inventor: Hanbin Shan , Zhedong Yuan , Xueyan Zhu , Peng Zhang , Hongjuan Pan , Xiong Yu

**Original Assignee: Les Laboratoires Servier** 

Priority date: 2010-03-17

Filing date: 2011-03-17

Publication date: 2011-09-22

Info: Patent citations (2), Non-patent citations (1), Cited by (4), Also published as (16), Legal events, Similar documents

External links: Espacenet, Global Dossier, PatentScope, Discuss

# Common Citation Document (CCD)

#### http://ccd.fiveipoffices.org/CCD-2.1.6/

CCD	View				Inspector: biblio for	r EP2004042	5475			
Compa	act viev	Sor	t by country Filter (1) - Classifications & fields searched	Bibliographic da	Bibliographic data: EP 1612403 (A1)					
#	CC EP	Cat.	Citation details Application N° EP04425475 (EP20040425475) - 30 June 2004	Claims	Servo valve for o engine fuel injec		an inte	ernal combustion		
- 1	EP		National Search Report		Publication date:	4 January 2	006			
DEV		X Y	DE4310984 A1 (REXROTH MANNESMANN GMBH [DE]) - 6 October 1994 Column 4, line 31 - column 5, line 54 Figure 1	1-5,13 6	Inventor(s):		GORGOG	DE MATTHAEIS SISTO GLIONE ADRIANO [IT]; T]		
		Ă	WO0111227 A1 (SIEMENS AG [DE], et al) - 15 February 2001 Page 7, line 9 - page 9, line 3	6	Applicant(s):	FIAT RICERO	HE [IT]			
DEVONthink			Figure 1 Claim 17		Classifications:	International: F02M				
		A	EP0740068 A2 (LUCAS IND PLC [GB]) - 30 October 1996 Column 4, line 27 - column 5, line 13 Figure 2	1		European:		2M47/02 2M47/02D; 2M63/00E2B;		
		Α	US6257499 B1 (STURMAN ODED E) - 10 July 2001 Column 4, line 49 - column 5, line 23 Figure 4	1		F02M63/00E4C; F02M63/00E4D				
2	ΑΤ		Application Nº AT05425384 (AT20050425384T) - 27 May 2005		Application number	r: EP2004042	5475 20	0040630		
3	ΑΤ		Application Nº AT05425383 (AT20050425383T) - 27 May 2005		Priority number(s)	: EP2004042	5475 20	0040630		
4	DE		Application N° DE602004004254 (DE200460004254T) - 30 June 2004		Abstract of EP 1	612403 (A1	)			
5	DE		Application N° DE602005000662 (DE200560000662T) - 27 May 2005		A control servo valve combustion engine fu chamber (13) commu	el inje 📃 I	lide <u>C</u> CI	D Double V		
6	DE		Application N° DE602005003175 (DE200560003175T) - 27 May 2005		outlet passage (22), and a s the actuator (9) between a close and open the outlet pa Expand view Sort by country					
7	EP		Application Nº EP05425384 (EP20050425384) - 27 May 2005		the servo valve (8) als the actuator (9) and t			ort by country Filter (1)		
			National Search Report		the outlet passage (2 (30) of the axial rod (	2) com	EP	Annella stila a NO F		
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						12	US	Application Nº L		
						13	05	Application Nº U		

CD V	liew			Inspector: biblio for EP20040425475
Expand	view Sort	by country Filter (1) - Classifications & fields searched		Bibliographic data: EP 1612403 (A1)
#	CC Cat.	Citation details	Claims	Servo valve for controlling an internal combustion
7	EP	Application Nº EP05425384 (EP20050425384) - 27 May 2005		engine fuel injector
8	ES	Application Nº ES04425475 (ES20040425475T) - 30 June 2004		Abstract of EP 1612403 (A1)
9	ES	Application Nº ES05425384 (ES20050425384T) - 27 May 2005		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
	JP	Application Nº JP2005192051 (JP20050192051) - 30 June 2005		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
11	JP	Application Nº JP2005118446 (JP20050118446) - 15 April 2005		the actuator (9) between a closed position and an open position to close and open the outlet passage (22) respectively
12	US	Application Nº US11112772 (US20050112772) - 21 April 2005		the servo valve (8) also has a fixed axial rod (29) interposed between the actuator (9) and the control chamber (13)
13	US	Application Nº US11741474 (US20070741474) - 27 April 2007		the outlet passage (22) comes out through an outer lateral surface
14	US	Application Nº US11171659 (US20050171659) - 30 June 2005		(30) of the axial rod (29) and the shutter (35) is defined by a sleeve which slides axially on the
15	EP	Application Nº EP05425383 (EP20050425383) - 27 May 2005		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
16	JP	Application Nº JP2005191978 (JP20050191978) - 30 June 2005		the pressure of the fuel.
17	US	Application Nº US11171658 (US20050171658) - 30 June 2005		
18	AT	Application Nº AT06114551 (AT20060114551T) - 25 May 2006		Bibliographic data: EP 1612403 (B1)
, <b>19</b>	CN	Application N° CNA2006101639681 (CN20061163968) - 24 November 2006		
20	KR	Application Nº KR1020060117230 (KR20060117230) - 24 November 2006		
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22	JP	Application Nº JP2006147852 (JP20060147852) - 29 May 2006		
	families: 5	Application NO IIS11441541 (UC20060441641) 26 May 2006 Total family members: 23		-

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    - Trilateral and other offices had established mechanisms for non public exchange of prior art search reports
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- http://ccd.fiveipoffices.org/CCD-2.1.6/



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WO2011113363 (A1)	Family list: WO	)2011113363 (A1) –	- 2011-09-	22						
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Description	Select all (0/25)	Compact 🕀 Export (C	sv   xls ) 🕁	Download covers 🧷	CCD		🔒 Print			
Claims										
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INPADOC legal status	1. AGOMELATINE HYDROBROMIDE HYDRATE AND PREPARATION THEREOF Click loads simple									
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Quick help —	Inventor: SHAN HANBIN [CN] YUAN	Applicant: SERVIER LAB [FR] SHAN HANBIN [CN] (+5)	CPC: A61K31/165 C07C233/18	Citations: CN101481321 A CN101585779 A	Publicatio WO201111 2011-09-22	fa	mily i	in new	window	
→ Can I export this list? → What happens if I click on "Download covers"?	ZHEDONG [CN] (+4)	(+5)								,
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→ What happens if I click on the star icon? → What is a patent family? → What happens if I tick the "show citations" box? → What is an INPADOC patent family? → Are all the documents in an	Inventor: ZHANG PENG [CN] ZHU XUEYAN [CN] (+1)	Applicant: SERVIER LAB [FR]	CPC: A61K31/165 C07C233/18	Citations:	<b>Publication i</b> AP3199 (A) 2015-03-31		Priority date: 2010-03-17			
INPADOC family equivalents?	3. Agomelatine hyd	Irobromide hydrate and prepa	ration thereof							
→ Why is the same document published several times in the same country?	★ Inventor: SHAN HANBIN YUAN ZHEDONG (+4)	Applicant: SERVIER LAB	CPC: <u>A61K31/165</u> <u>C07C233/18</u>	Citations: US2011313198 A1	Publication i AU20112296 2012-09-27 AU20112296 2014-05-22	19 (A1)	Priority date: 2010-03-17			
	4. AGOMELATINE	HYDROBROMIDE HYDRATE A	ND PREPARATI	ON THEREOF						
	★ Inventor: SHAN HANBIN [CN] YUAN ZHEDONG [CN] (+4)	Applicant: SERVIER LAB [FR]	CPC: A61K31/165 C07C233/18	Citations:	Publication i CA2792430 (. 2011-09-22 CA2792430 ( 2015-12-08	(A1)	Priority date: 2010-03-17		WIPO WORLD INTELLECTUAL I ORGANIZATION	property WIPO PI

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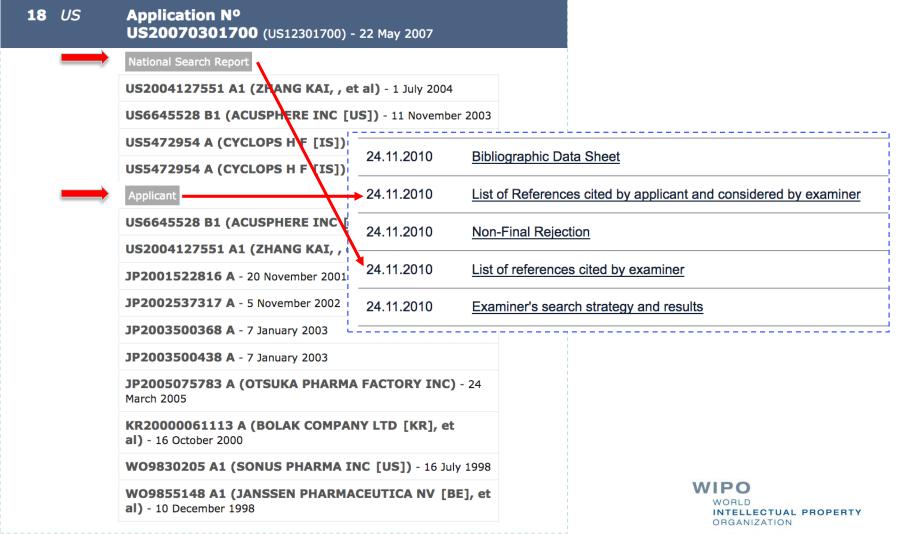
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#	CC C	at. Citation details	Claims		US		
令 1	US	Application Nº US19990300325 (US09300325) - 27 April 1999				A6112/10, C02F1/32 210/748.11, 422/23	
2	AR	Application Nº AR2000P102013 (ARP000102013) - 27 April 2000			EC	A61L2/10, C02F1/32	
3	AU	Application Nº AU20000044961D (AU4496100) - 27 April 2000					
4	BR	Application Nº BR20000010600 (BR0010600-3) - 27 April 2000	> Simple	e i	tam	nily ("equivalents")	
5	CA	Application Nº CA20002372427 (CA002372427) - 27 April 2000					
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					СА		
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#	CC	Cat.	Citation details	Claims	Full document: US 450124		
- 1	EP		Application Nº EP20040425480 (EP0442	June 2004			
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		x	DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 Page 3, paragraph 19	1-3			
			Figure 1		United	selected of	
		x	US4501246 A (BOSCH GMBH ROBERT [DE]) - 26 Febru Column 2, line 22 - column 2, line 23	ary 1985 1-5	Leblanc		[45] Date of Patent:
		x	Figure 1 EP0270720 A1 (RENAULT [FR]) - 15 June 1988	1.4-8	[54] FUEL IN	JECTION PUMP	4,398,518 8/1983 Leblanc et al
			Page 5, line 12 - page 6, line 5			Jean Leblanc, Lyons, France	4,398,519 8/1983 Tissot et al. FOREIGN PATENT DO
		А	EP0299337 A2 (IVECO FIAT [IT], et al) - 18 Ja	DF of selec	cted citation	Robert Bosch GmbH, Stuttgart, Fed. Rep. of Germany	53-80803 7/1978 Japan
				1.0		.: 397,712	Primary Examiner-William L. Fr Assistant Examiner-Paul F. Neils
		A	DE19714489 C1 (SIEMENS AG [DE]) - 1 October 1998 Figure 1	1-8	The steel	Jul. 13, 1982 ign Application Priority Data	Attorney, Agent, or Firm—Edwin ] 457] ABSTRACT
2	AT		Application Nº AT20040425480T (AT04425480) - 3	30 June 2004	Jul. 22, 190	E] Fed. Rep. of Germany 3128975	A fuel injection pump is propose
3	DE		Application Nº DE200460002105T (DE6020040022	105) - 30 June	[51] Int. Cl. <sup>3</sup> [52] U.S. Cl.	123/449; 123/458;	metering during the intake stroke c the fuel injection pump is effected
			2004		[58] Field of S	417/487; 417/519 Search 417/487, 519, 221, 244,	duit, the cross section of which is electrically controlled switching
4	ES		Application Nº ES20040425480T (ES04425480) - 3		41//2	53, 462, 505; 123/449, 450, 458, 502, 500, 506	means of the control of a fuel su pressure conduit by means of a co
5	JР		Application Nº JP20050120087 (JP2005120087) - :	18 April 2005	[56]	References Cited PATENT DOCUMENTS	communicates with the pump we part of a distributor shaft, is guided
6	JР		Application Nº JP20090214944 (JP2009214944)			1937 Planiol	rpm. By means of the oblique disp groove and the possibility of an e
			National Examination	Citations	s of JPO	1944         Skaredon         123/450           1968         Eheim et al.         123/449           1971         Voit et al.         417/505	longitudinal displacement of the angular position at which injectio
			JP2004011448 A (NIPPON SOKEN, et al) - 15 January	2004	4,378,775 4	1978 Hofer et al	embodied in an arbitrary manner in switching valve.
			JP2004124727 A (DENSO CORP) - 22 April 2004		4.382,751 5 4.385,610 5	5/1983 Potter 123/458 X 5/1983 Leblanc 123/449	5 Claims, 2 Drawing
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Citations only view		Citation details	Claims	Bibliographic data:	: DE 10345154 (A1)			
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#### Thank you

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