



Topic 6: Retrieval and Comparison of Prior Art Citations

Lutz Mailänder

Head, International Cooperation on Examination and Training Section

Cybercity
March 16, 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; ..)

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 trust worthy
 - 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

EUROPEAN SEARCH REPORT

Europäisches Patentamt
European Patent Office
Office européen des brevets

DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASS APPLIC |
|----------|--|-------------------|------------------------|
| X | 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 * | 1-13 | INV. G01T |
| Y | US 6 128 039 A (CHEN DATONG [US] ET AL) 3 October 2000 (2000-10-03) * column 3, line 57 - column 4, line 28; figure 2 * | 1,3-7 | |
| 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 | |
| A | 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 | |
| A,D | WO 2004/064168 A1 (SCHERRER INST PAUL [CH]; BROENNIMANN CHRISTIAN [CH]; SCHMITT BERND [CH]) 29 July 2004 (2004-07-29) * the whole document * | 1-13 | TECH SEARCH G01T |
| E | WO 2009/131151 A1 (HAMAMATSU PHOTONICS KK [JP]; MORI HARUMICHI [JP]; KYUSHIMA RYUJI [JP];) 29 October 2009 (2009-10-29) * figure 12 * | 1 | |

The present search report has been drawn up for all claims

Place of search: The Hague
Date of completion of the search: 23 March 2010
Examiner: Wulveryck, J

CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone
Y: particularly relevant if combined with another document of the same category
A: technological background
O: non-written disclosure
P: intermediate document

T: theory or principle underlying the invention
E: earlier patent document, but published on, or after the filing date
D: document cited in the application
L: document cited for other reasons
A: member of the same patent family, corresponding document

(12) **United States Patent**
Li et al.

(10) **Patent No.:** **US 8,296,619 B2**
(45) **Date of Patent:** **Oct. 23, 2012**

(54) **METHOD AND APPARATUS FOR INDICATING A TEMPORARY BLOCK FLOW TO WHICH A PIGGYBACKED ACK/NACK FIELD IS ADDRESSED**

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,751,741 A * 5/1998 Voith et al. 714/758
(Continued)

FOREIGN PATENT DOCUMENTS

EP 1 376 950 1/2004
(Continued)

OTHER PUBLICATIONS

Third Generation Partnership Project, "Technical Specification Group GSM/EDGE Radio Access Network; Channel coding (Release 7)", 3GPP TS 45.003 V7.4.0 (Feb. 2008).

(Continued)

Primary Examiner — Scott Baderman

Assistant Examiner — Jeison C. Arcos

(75) **Inventors:** **Yan Li**, Center Valley, PA (US); **Stephen G. Dick**, Nesconset, NY (US); **Prabhakar R. Chitrapu**, Blue Bell, PA (US); **Marian Rudolf**, Vitre (FR); **Behrouz Aghili**, Melville, NY (US); **Khushali N. Manseta**, Yardley, PA (US)

(73) **Assignee:** **InterDigital Technology Corporation**, Wilmington, DE (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 981 days.

(21) **Appl. No.:** **12/106,138**

| Cited in | International search |
|---------------------|---|
| | [X] * US4268635 (HOY LESLIE R J, et al) [X] 1-17 * the whole document *; |
| | [X] * DE19513403 (BASF AG [DE]) [X] 1-17 * the whole document *; |
| | [X] * WO2004096418 (UNIV TSINGHUA [CN], et al) [X] 1-17 * the whole document *; |
| | [A] * US4804724 (HARRIS JAMES E [US], et al) [A] 1-17 * the whole document * |
| by applicant | → WO2007071780 |
| | → US4268635 |
| | → DE19513403 |
| | → WO2004096418 |
| Opposition | → EP0332012 |
| | → JP2006028414 |
| | → EP2000492 |
| | → EP0030033 |

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



EUROPEAN SEARCH REPORT

Application Number
EP 09 16 8955

Application number

| DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|---|---|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim |
| X | 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 * | 1-13 |
| Y | US 6 128 039 A (CHEN DATONG [US] ET AL) 3 October 2000 (2000-10-03) * column 3, line 57 - column 4, line 28; figure 2 * | 1,3-7 |
| 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 |
| A | 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 |
| A,D | WO 2004/064168 A1 (SCHERRER INST PAUL [CH]; BROENNIMANN CHRISTIAN [CH]; SCHMITT BERND [CH]) 29 July 2004 (2004-07-29) * the whole document * | 1-13 |
| E | WO 2009/131151 A1 (HAMAMATSU PHOTONICS KK [JP]; MORI HARUMICHI [JP]; KYUSHIMA RYUJI [JP];) 29 October 2009 (2009-10-29) * figure 12 * | 1 |
| The present search report has been drawn up for all claims | | |
| 1 | Place of search The Hague | Date of completion of the search 23 March 2010 |
| | | Examiner Wulveryck, J |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p> | | |

International Patent Classification

Category X, Y, A, etc.

Relevant to Claim ...

Cited documents

Technical Fields Searched

Searching Authority

Date of Completion of the Search

Examiner

Categories of citations

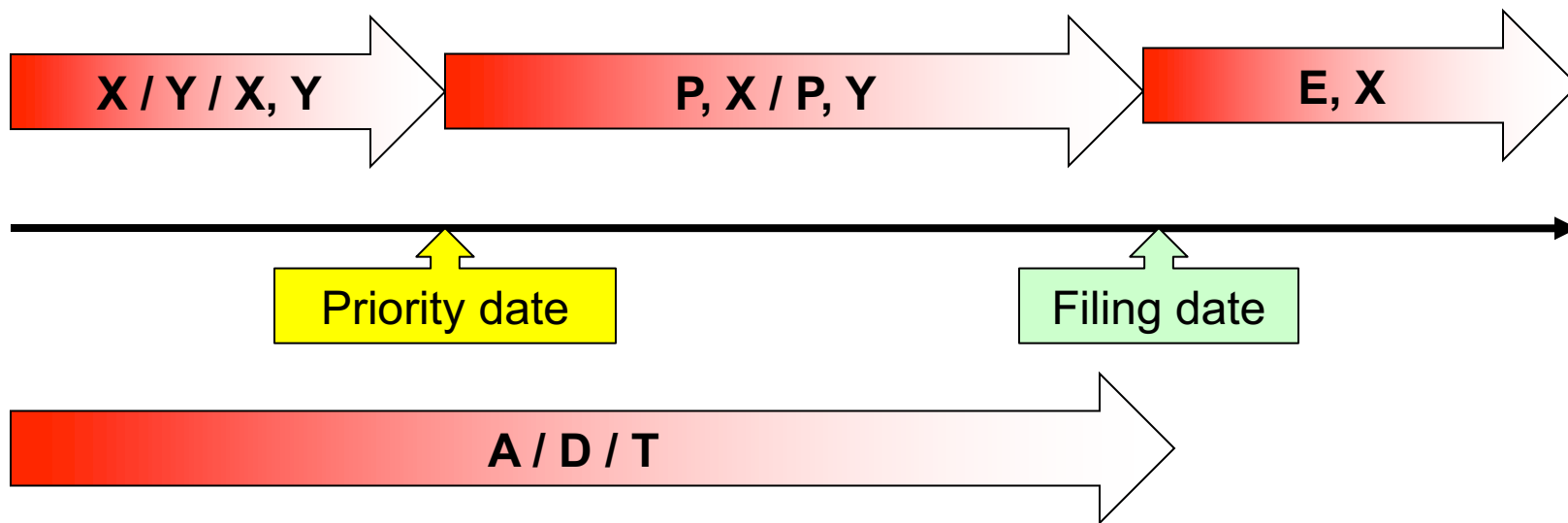
- X particularly relevant if taken alone (novelty)
- Y particularly relevant if combined with another document of the same category (inventive step)
- A technological background
- O non written disclosure
- P intermediate document, i.e. published between the earliest priority date and the filing date
- 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 References Cited | | | | Application/Control No. 11/689,638 | | Applicant(s)/Patent Under Reexamination COX ET AL. | |
| | | | | Examiner REGINA YOO | | Art Unit 1773 | Page 1 of 1 |
| U.S. PATENT DOCUMENTS | | | | | | | |
| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Name | Classification | | |
| * | A | US-4,662,516 A | 05-1987 | Baker et al. | 206/363 | | |
| * | B | US-5,003,892 A | 04-1991 | Bricken, Jonathan | 110/346 | | |
| | C | US- | | | | | |
| | D | US- | | | | | |
| | E | US- | | | | | |
| | F | US- | | | | | |
| | G | US- | | | | | |
| | H | US- | | | | | |
| | I | US- | | | | | |
| | J | US- | | | | | |
| | K | US- | | | | | |
| | L | US- | | | | | |
| | M | US- | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Country | Name | Classification | |
| | N | | | | | | |

US search reports are **not enriched**, i.e. no X,Y, A; no references to claims, no references to pages, lines, drawings,...

US-PAIR: prior art in image file wrapper

"Image File Wrapper" contains search and examination reports

| | | | | | |
|------------|-------|--|-------------|----|--------------------------|
| 09-28-2006 | WFEE | Fee Worksheet (SB06) | PROSECUTION | 1 | <input type="checkbox"/> |
| 04-28-2006 | CTNF | Non-Final Rejection | PROSECUTION | 10 | <input type="checkbox"/> |
| 04-28-2006 | 1449 | List of References cited by applicant and considered by examiner | PRIOR ART | 1 | <input type="checkbox"/> |
| 04-28-2006 | 892 | List of references cited by examiner | PRIOR ART | 1 | <input type="checkbox"/> |
| 04-28-2006 | FWCLM | Index of Claims | PROSECUTION | 1 | <input type="checkbox"/> |

| | | | |
|-----------------------------------|---------------------------------------|--|-------------|
| Notice of References Cited | Application/Control No. 11/093,685 | Applicant(s)/Patent Under Reexamination CHAN ET AL. | |
| | Examiner Tina M. Wong | Art Unit 2874 | Page 1 of 1 |

U.S. PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Name | Classification |
|---|---|--|-----------------|----------------|----------------|
| * | A | US-6,081,638 | 06-2000 | Zhou, Ping | 385/31 |
| * | B | US-6,842,467 | 01-2005 | Aronson et al. | 372/27 |
| * | C | US-5,179,420 | 01-1993 | So et al. | 356/73.1 |
| | D | US- | | | |
| | E | US- | | | |

US-PAIR: prior art tab

11/689,638 Heat Processing Systems, Apparatuses, and Methods for Collection and Disposal of Infectious and Medical Waste

Select New Case Application Data Transaction History Image File Wrapper Continuity Data Published Documents Address & Attorney/Agent Display References

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 and 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 applicant and considered by examiner |
| 09-12-2007 | IDS | Information Disclosure Statement (IDS) Form (SB08) |

Foreign Patent and Non-Patent Documents

| Mail Room Date | Document Code | Document Description |
|----------------|---------------|---------------------------------------|
| 08-16-2010 | NPL | Non Patent Literature |
| 08-16-2010 | NPL | Non Patent Literature |
| 08-16-2010 | NPL | Non Patent Literature |
| 08-16-2010 | NPL | Non Patent Literature |
| 09-12-2007 | FOR | Foreign Reference |
| 09-12-2007 | FOR | Foreign Reference |
| 09-12-2007 | FOR | Foreign Reference |



List of references cited by applicant

List of references cited by examiner

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 operations source component, including a first biometric security component, a second security component, (page 33, the central system 12 can be remotely located from the electronic transaction stations location as the electronic transaction station, e.g., an in-store central processor a

'Claims 1, 8-10,... not novel in view of US2004023117A1'

US search reports in Global Dossier

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

Espacenet: Backward Citations



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WO2011113363 (A1)

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Cited documents: WO2011113363 (A1) — 2011-09-22

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3 documents cited in relation to **WO2011113363 (A1)**

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International search citation

1. **Agomelatine halogen hydride complex and preparation thereof**

| ★ Inventor: | Applicant: | CPC: | IPC: | Publication info: | Priority date: |
|---|--------------------------------------|-------------------|------------|--|----------------|
| PENG ZHANG [CN] HANBIN SHAN [CN] (+8) | SHANGHAI INST PHARM INDUSTRY [CN] | <u>C07C233/18</u> | C07C233/18 | CN101481321 (A) 2009-07-15 CN101481321 (B) 2012-04-18 | 2009-02-27 |

2. **New crystal form of Agomelatine, preparation method and use thereof**

| ★ Inventor: | Applicant: | CPC: | IPC: | Publication info: | Priority date: |
|---|--------------------------------------|--|---|--|----------------|
| HANBIN SHAN [CN] PENG ZHANG [CN] (+7) | SHANGHAI INST PHARM INDUSTRY [CN] | <u>A61K31/165</u> <u>C07C233/18</u> | A61K31/165 A61P1/00 A61P25/00 (+8) | CN101585779 (A) 2009-07-15 CN101585779 (B) 2014-04-02 | 2009-03-10 |

Patents cited by the applicant

3. **Agomelatine halogen hydride complex and preparation thereof**

| ★ Inventor: | Applicant: | CPC: | IPC: | Publication info: | Priority date: |
|---|--------------------------------------|-------------------|------------|--|----------------|
| PENG ZHANG [CN] HANBIN SHAN [CN] (+8) | SHANGHAI INST PHARM INDUSTRY [CN] | <u>C07C233/18</u> | C07C233/18 | CN101481321 (A) 2009-07-15 CN101481321 (B) 2012-04-18 | 2009-02-27 |

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WO2011113363 (A1)

- Bibliographic data
- Description
- Claims
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- Are all the documents in an INPADOC family equivalents?
- Why is the same document published several times in the same country?

Family list: WO2011113363 (A1) — 2011-09-22

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29 application(s) for: WO2011113363 (A1)

1 2 ▸
page 1

Sort by Priority date Sort order Descending show citations

1. AGOMELATINE HYDROBROMIDE HYDRATE AND PREPARATION THEREOF

| ★ Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|---|--|--------------------------|--------------------------------|---------------------------------|----------------|
| SHAN HANBIN [CN] YUAN ZHEDONG [CN] (+4) | SERVIER LAB [FR] SHAN HANBIN [CN] (+5) | A61K31/165 C07C233/18 | CN101481321 A CN101585779 A | WO2011113363 (A1) 2011-09-22 | 2010-03-17 |

2. Agomelatine hydrobromide hadrate and preparation thereof

| ★ Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|--|------------------|--------------------------|------------|--------------------------|----------------|
| ZHANG PENG [CN] ZHU XUEYAN [CN] (+1) | SERVIER LAB [FR] | A61K31/165 C07C233/18 | | AP3199 (A) 2015-03-31 | 2010-03-17 |


3. Agomelatine hydrobromide hydrate and preparation thereof

| ★ Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|-------------------------------------|-------------|--------------------------|-----------------|--|----------------|
| SHAN HANBIN YUAN ZHEDONG (+4) | SERVIER LAB | A61K31/165 C07C233/18 | US2011313198 A1 | AU2011229619 (A1) 2012-09-27 AU2011229619 (B2) 2014-05-22 | 2010-03-17 |

4. AGOMELATINE HYDROBROMIDE HYDRATE AND PREPARATION THEREOF


| ★ Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|---|------------------|--------------------------|------------|---|----------------|
| SHAN HANBIN [CN] YUAN ZHEDONG [CN] (+4) | SERVIER LAB [FR] | A61K31/165 C07C233/18 | | CA2792430 (A1) 2011-09-22 CA2792430 (C) 2015-12-08 | 2010-03-17 |

Citations (enriched) in EP-Register - 1



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European Patent Register



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EP2570899

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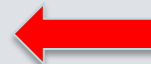
| Cited in | Search | |
|---------------------------------|--|--|
| Type: | Patent literature | |
| Publication No.: | ↗ US2011005662 [XY] (SUNG KUO-HUA [US]) [X] 1-6,9-11,14 par. 21, 27, 30, 38, 41, 42, 43, 44 , fig. 4 [Y] 7-8,12-13,15 | |
| Type: | Patent literature | |
| Publication No.: | ↗ WO201112447 [Y] (3M INNOVATIVE PROPERTIES CO [US], et al) [Y] 7-8,12-13 p. 11 , l. 28-31 | |
| Type: | Patent literature | |
| Publication No.: | ↗ TW201102698 [Y] (MASTOUCH OPTOELECTRONICS TECHNOLOGIES CO LTD [TW]) [Y] 15 abstract , fig. B | |
| Type: | Non-patent literature | |
| Publication information: | US2011234526 A1 20110929 [] (MI DAVID [TW]) par. 0032 , fig. 1B, 3, 4 , par. 0040 , fig. 3, 4 | |
| Type: | Patent literature | |
| Publication No.: | ↗ US2010302195 [A] (WANG WEN-CHUN [TW], et al) [A] 1,10 par. 0020 , fig. 5a | |
| Type: | Patent literature | |

PUBLIC

Citations (enriched) in EP-Register – 2



European Patent Register



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EP 2570899 - **Touch display device and a method of manufacturing the same** [Right-click to bookmark this link]

Documents cited:

Search

[XY] ↗ [US2011005662](#) (SUNG KUO-HUA [US]) [X] 1-6,9-11,14 * paragraphs [0021] , [0 27] , [0 30] , [0 38] , [0 41] , [0 42] , [0 43] , [0 44]; figure 4 * [Y] 7-8,12-13,15;

[Y] ↗ [WO201112447](#) (3M INNOVATIVE PROPERTIES CO [US], et al) [Y] 7-8,12-13 * page 11, lines 28-31 *;

[Y] ↗ [TW201102698](#) (MASTOUCH OPTOELECTRONICS TECHNOLOGIES CO LTD [TW]) [Y] 15 * abstract *;


[P] ↗ [US2011234526](#) (MI DAVID [TW]) [P] * paragraph [0032]; figures 1B, 3, 4 * * paragraph [0040]; figures 3, 4 *;

[A] ↗ [US2010302195](#) (WANG WEN-CHUN [TW], et al) [A] 1,10 * paragraph [0020]; figure 5a *;

[A] ↗ [US2009185101](#) (MATSUHIRA TSUTOMU [JP], et al) [A] 2-3 * paragraphs [0039] , [0 44] , [0 46]; figures 1a-f, 2a *

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| | <p>Type: Non-patent literature</p> <p>Publication information: [A] - DUDEK T ET AL, "Replication-defective viruses as vaccines and vaccine vectors", VIROLOGY, vol. 344, no. 1, ISSN 0042-6822, (20060105), pages 230 - 239, (20060105), XP024896310 [A] 1-15 * page 106, paragraph L *</p> <p>DOI: http://dx.doi.org/10.1016/j.virol.2005.09.020</p> <p>Type: Non-patent literature</p> <p>Publication information: [PX] - MASON P W ET AL, "Production and characterization of replication-defective vaccines based on flaviviruses", VIROLOGY, vol. 357, no. 1, ISSN 0042-6822, (20060801), XP024896458 [PX] 1-15 * the</p> <p>DOI: http://dx.doi.org/10.1016/j.virol.2006.04.010</p> <p>Type: Non-patent literature</p> <p>Publication information: [T] - WIDMAN DOUGLAS G ET AL, "Third generation replication-defective viruses.", ADVANCED VIRAL REPLICATION, vol. 1, no. 1, ISSN 1522-0167, (20060501), pages 77 - 126, XP009122428 [T] 1-15 * figure 2 *</p> <p>DOI: http://dx.doi.org/10.1016/S0065-3527(08)00402-8</p> |

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| | | [X] WO2004096418 (UNIV TSINGHUA [CN], et al) [X] 1-17 * the whole document *; |
| | | [A] US4804724 (HARRIS JAMES E [US], et al) [A] 1-17 * the whole document * |
| | by applicant | → WO2007071780 |
| | | → US4268635 |
| | | → DE19513403 |
| | | → WO2004096418 |
|  | Opposition | → EP0332012 |
| | | → JP2006028414 |
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Patent literature

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THE MARCONI REVIEW, vol. XLIII, no. 218, 1980, pages 156-175, Rugby, GB; R.M. LANGDON: "Vibratory process control transducers"

IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. IM-32, no. 3, September 1983, pages 434-437, IEEE, New York, US; E. STEMME et al.: "Measuring liquid density with a tuning-fork transducer"

I.S.A. TRANSACTIONS, vol. 20, no. 3, 1981, pages 67-75, Research Triangle Park, NC, US; B.W. BALLS: "A new on-line density meter for viscous liquids and slurries"

Farnham Surrey(GB)

Representative: **Stoole, Brian David et al Schlumberger Electronics (U.K.) Limited 124 Victoria Road Farnborough Hampshire GU14 7PW (GB)**

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EP 0 282 251 B1

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Publication number: **0 282 251 B1**

EUROPEAN PATENT SPECIFICATION

Date of publication of patent specification: 17.02.93
Application number: 8531967.2
Date of filing: 07.03.88

Fluid transducer.

Priority: 11.03.87 GB 8705757
Date of publication of application: 14.06.88 Bulletin 8537
Publication of the grant of the patent: 17.02.93 Bulletin 9397
Designated Contracting States: AT BE CH DE FR IT LI NL SE

Proprietor: SCHLUMBERGER INDUSTRIES LIMITED
124 Victoria Road
Farnborough Hampshire, GU14 7PW(GB)
Inventor: Rudkin, Mark Jonathan
10 Deigh Road
Winkborne Down(GB)
Inventor: Altmann, David Ian Heston
5 Dullis Drive
Farnham Surrey(GB)

Representative: Stoole, Brian David et al
Schlumberger Electronics (U.K.) Limited 124
Victoria Road
Farnborough Hampshire GU14 7PW (GB)

GB-A- 2 131 952

THE MARCONI REVIEW, vol. XLIII, no. 218, 1980, pages 156-175, Rugby, GB; R.M. LANGDON: "Vibratory process control transducers"

IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, vol. IM-32, no. 3, September 1983, pages 434-437, IEEE, New York, US; E. STEMME et al.: "Measuring liquid density with a tuning-fork transducer"

I.S.A. TRANSACTIONS, vol. 20, no. 3, 1981, pages 67-75, Research Triangle Park, NC, US; B.W. BALLS: "A new on-line density meter for viscous liquids and slurries"

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| 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

| | |
|--|--|
| Applicant's or agent's file reference 16F064-PCT | |
| International application number PCT/JP2016/071237 | International filing date (day/month/year) 20 Jul 2016 (20/07/2016) |
| Applicant (EN) HIROSHIMA UNIVERSITY (+1) | |
| Third party observation submitted by Anonymous | Observation submitted on behalf of |
| Date of submission(day/month/year) 17 Jun 2017 (17/06/2017) | Language of observation Japanese |

Citation # 1(Periodical article) (# uploaded documents: 17)

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|--|--|---|---|
| Author: Tae Sub Park | Title of article: Targeted gene knockout in chickens mediated by TALENs | Title of Periodical: Proc Natl Acad Sci U S A. | Publication Date: 02 Sep 2014 (02/09/2014) |
| Issue Number of Periodical: 111 | Publisher of Periodical: | Place of publication: | |
| Page range of article within periodical: 2716-12721 | ISBN: | ISSN: | |
| DOI: | | | |
| Most relevant passages or drawings: p12719 Discussion | | Relevant to Claims: 1-2, 4-17 | |
| Brief explanation of relevance: Discussionには、TALENsのゲノム編集技術を用いて、アレルギーの原因であるovomucoidをノックアウトした卵作成が可能であることが開示され、さらにCRISPR-Casゲノム編集技術も利用可能であることが開示されている。従って、CRISPR-Casゲノム編集技術で鶏のovomucoid遺伝子をノックアウトすることは容易に思いつく(進歩性の否定)。 | | | |

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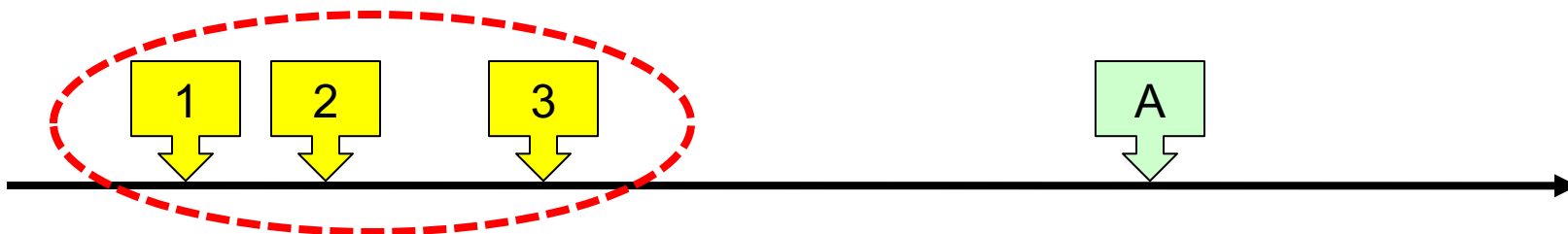
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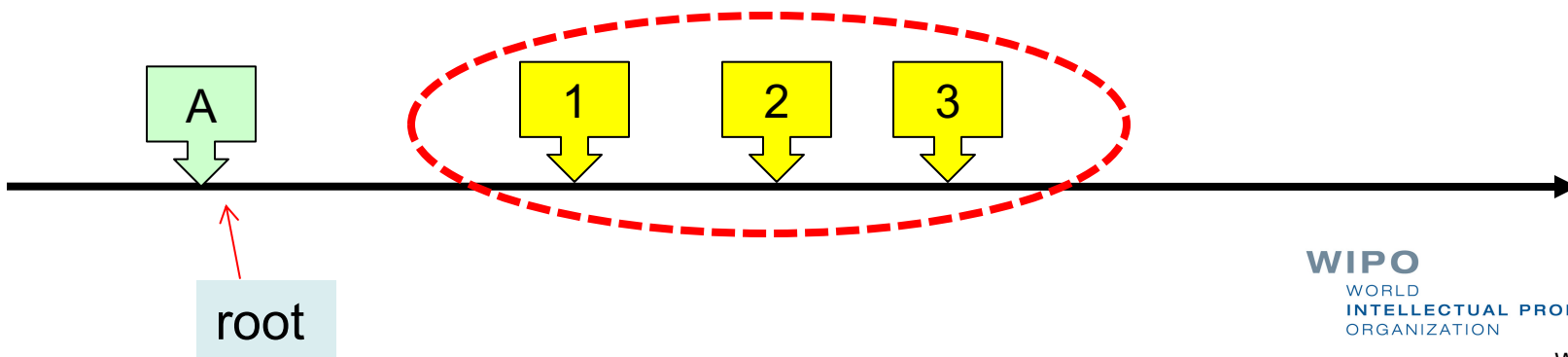
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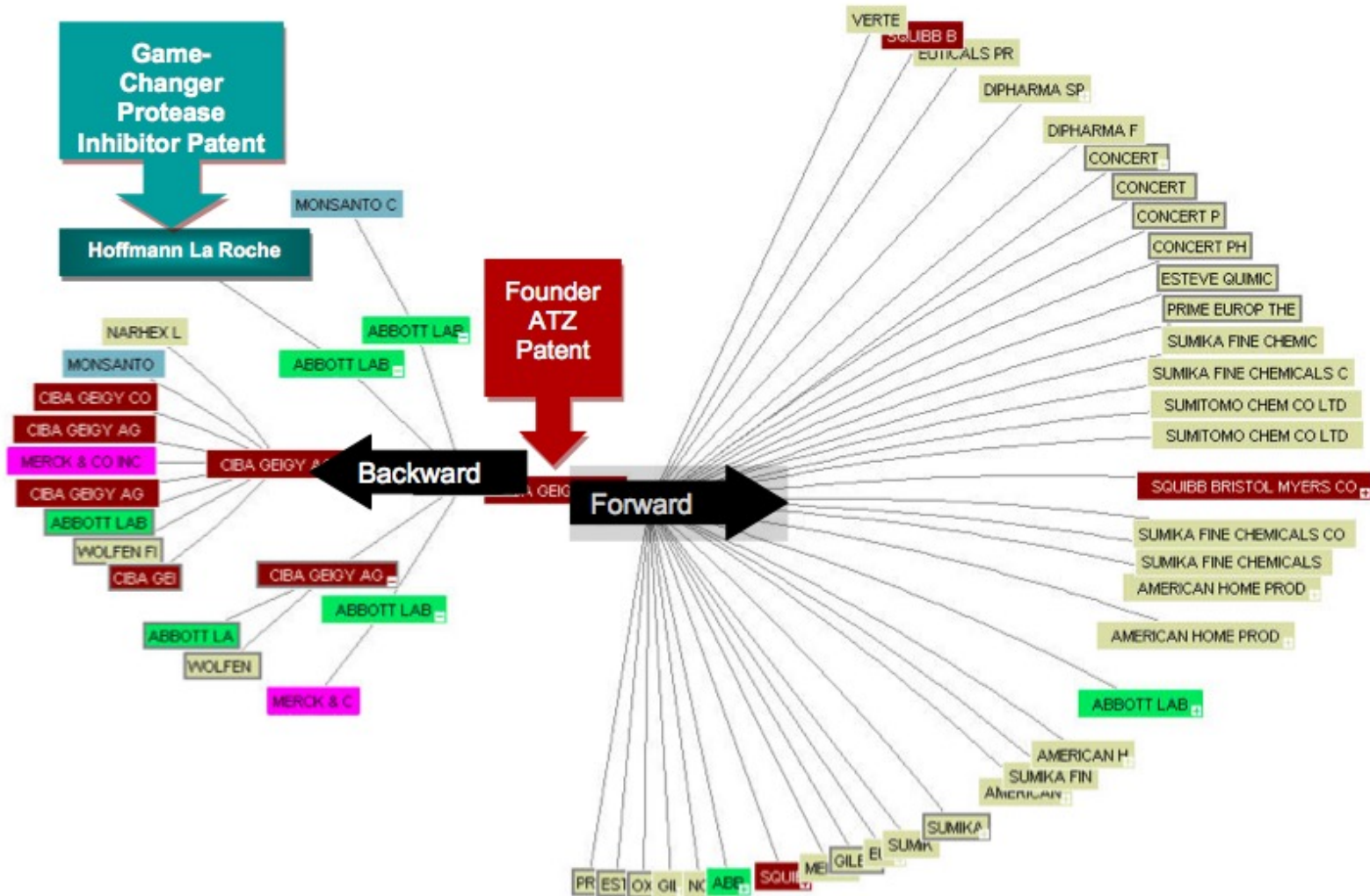


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3 documents citing WO2011113363 (A1)

Sort by Sort order

1. Agomelatine methanesulfonic acid complex and preparation method thereof

| | | | | | |
|---|---|-------------|--|--|-------------------------------------|
| ★ Inventor: HAIPING WANG CHENG CHI (+3) | Applicant: SHANGHAI RIGHT HAND MEDICAL TECHNOLOGY DEV CO LTD | CPC: | IPC: A61K31/165 A61P1/00 A61P25/00 (+6) | Publication info: CN102718675 (A) 2012-10-10 CN102718675 (B) 2015-03-25 | Priority date: 2012-06-07 |
|---|---|-------------|--|--|-------------------------------------|

2. SOLID PHARMACEUTICAL COMPOSITION FOR ORALLY DELIVERING AGOMELATINE

| | | | | | |
|--|--|--|---|---|-------------------------------------|
| ★ Inventor: THARRAULT FRANCOIS [FR] POIRIER CECILE [FR] (+2) | Applicant: SERVIER LAB [FR] THARRAULT FRANCOIS [FR] (+3) | CPC: A61K31/165 A61K9/0056 A61K9/006 (+3) | IPC: A61K31/165 A61K9/00 A61K9/20 | Publication info: WO2013021139 (A1) 2013-02-14 | Priority date: 2011-08-10 |
|--|--|--|---|---|-------------------------------------|

3. Solid pharmaceutical composition for buccal administration of agomelatine

| | | | | | |
|--|---------------------------------------|--|---|--|-------------------------------------|
| ★ Inventor: THARRAULT FRANCOIS [FR] POIRIER CECILE [FR] (+2) | Applicant: SERVIER LAB [FR] | CPC: A61K31/165 A61K9/0056 A61K9/006 (+3) | IPC: A61K31/165 A61K9/00 A61K9/20 | Publication info: EP2556824 (A1) 2013-02-13 | Priority date: 2011-08-10 |
|--|---------------------------------------|--|---|--|-------------------------------------|

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](#)

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| 1 | EP | | Application N° EP04425475 (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 | 0111227 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 | | Application N° AT05425384 (AT20050425384T) - 27 May 2005 | |
| 3 | AT | | Application N° AT05425383 (AT20050425383T) - 27 May 2005 | |
| 4 | DE | | Application N° DE602004004254 (DE200460004254T) - 30 June 2004 | |
| 5 | DE | | Application N° DE602005000662 (DE200560000662T) - 27 May 2005 | |
| 6 | DE | | Application N° DE602005003175 (DE200560003175T) - 27 May 2005 | |
| 7 | EP | | Application N° EP05425384 (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]; GORGGLIONE ADRIANO [IT]; DI MEIO 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 combustion engine fuel injector (1) and has an actuator chamber (13) communicating with an outlet passage (22), and a shutter (35) between a closed position and an open position to close and open the outlet passage (22) respectively. The servo valve (8) also has a control chamber (9) and the actuator (9) and the control chamber (9) and the outlet passage (22) communicate with each other through an outlet lateral surface (30) of the axial rod (29) and the shutter (35) is defined by an outer lateral surface (30), and

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

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29 application(s) for: WO2011113363 (A1)

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1. **AGOMELATINE HYDROBROMIDE HYDRATE AND PREPARATION THEREOF**

| Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|--|---|--------------------------|--------------------------------|--------------------------------|----------------|
| ★ SHAN HANBIN [CN] YUAN ZHEDONG [CN] (+4) | SERVIER LAB [FR] SHAN HANBIN [CN] (+5) | A61K31/165 C07C233/18 | CN101481321 A CN101585779 A | WO2011113363 (A) 2011-09-22 | 2010-03-17 |

2. **Agomelatine hydrobromide hydrate and preparation thereof**

| Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|---|------------------|--------------------------|------------|--------------------------------|----------------|
| ★ ZHANG PENG [CN] ZHU XUEYAN [CN] (+1) | SERVIER LAB [FR] | A61K31/165 C07C233/18 | | WO2011113363 (A) 2015-03-31 | 2010-03-17 |

3. **Agomelatine hydrobromide hydrate and preparation thereof**

| Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|--|------------------|--------------------------|----------------|--|----------------|
| ★ SHAN HANBIN [CN] YUAN ZHEDONG [CN] (+4) | SERVIER LAB [FR] | A61K31/165 C07C233/18 | US201131398 A1 | AU2011229619 (A1) 2012-09-27 AU2011229619 (B2) 2014-05-22 | 2010-03-17 |

4. **AGOMELATINE HYDROBROMIDE HYDRATE AND PREPARATION THEREOF**

| Inventor: | Applicant: | CPC: | Citations: | Publication info: | Priority date: |
|--|------------------|--------------------------|------------|---|----------------|
| ★ SHAN HANBIN [CN] YUAN ZHEDONG [CN] (+4) | SERVIER LAB [FR] | A61K31/165 C07C233/18 | | CA2792430 (A1) 2011-09-22 CA2792430 (C) 2015-12-08 | 2010-03-17 |

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| 2 | AR | | Application N° AR2000P102013 (ARP000102013) - 27 April 2000 | |
| 3 | AU | | Application N° AU20000044961D (AU4496100) - 27 April 2000 | |
| 4 | BR | | Application N° BR20000010600 (BR0010600-3) - 27 April 2000 | |
| 5 | CA | | Application N° CA20002372427 (CA002372427) - 27 April 2000 | |
| 6 | CN | | Application N° CN20008008324 (CN00808324) - 27 April 2000 | |
| 7 | EP | | Application N° EP20000926432 (EP00926432) - 27 April 2000 | |

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| | 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 Jan 1988 Figure 1 | |
| | 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) - 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 | |

Simple families: 1 Total family members: 7

Enriched Citations of EPO

Domestic family of selected citation

PDF of selected citation

Citations of JPO

Full document: US 4501246 (A)

United States Patent and Trademark Office
Leblanc et al. [45] Date of Patent: 19850226

[54] FUEL INJECTION PUMP

Jean Leblanc, Lyons, France
Robert Bosch GmbH, Stuttgart, Fed. Rep. of Germany

App. No.: 397,712
Filed: Jul. 13, 1982

[56] Foreign Application Priority Data

Jul. 22, 1982 [EP] Fed. Rep. of Germany 3128975

[51] Int. Cl. 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

[56] References Cited
U.S. PATENT DOCUMENTS

1937 Planiol 123/451
1944 Skaredoff 123/450
1968 Eheim et al. 123/449
1971 Voit et al. 417/505
1978 Hofer et al. 123/449
4,378,775 4/1983 Straubel et al. 123/458
4,382,751 5/1983 Potter 123/458 X
4,385,610 5/1983 Leblanc 123/449

4,398,518 8/1983 Leblanc et al.
4,398,519 8/1983 Tissot et al.

FOREIGN PATENT DOCUMENTS

53-80803 7/1978 Japan

Primary Examiner—William L. Fr
Assistant Examiner—Paul F. Neils
Attorney, Agent, or Firm—Edwin J.

[57] ABSTRACT

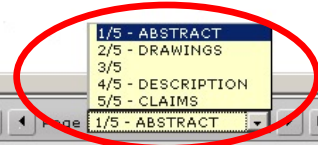
A fuel injection pump is proposed for metering during the intake stroke of the fuel injection pump is effected through a distributor shaft, which is electrically controlled switching means of the control of a fuel supply pressure conduit by means of a control valve communicates with the pump we part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

5 Claims, 2 Drawing

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

20.99 x 29.70 cm

Page 1/5 - ABSTRACT



CCD – citations only view

Shows for each citation the applications where the citation appears in the search report

This citation was seen by the EP, JP and US examiners

A box encircles language equivalents. The DE publication is a German translations of the JP publication.

The screenshot displays the 'Trilateral - CCD' interface. At the top, the 'Number' field contains 'EP1612402'. Below it, a search bar shows 'EP20040425480'. The 'CCD Viewer' section is set to 'Citations only view'. The main area is a table with columns for 'Application', 'Cat.', 'Citation details', and 'Claims'. The row for 'EP20040425480' is highlighted in blue and has an 'x' in the 'Cat.' column. To the right, a detailed view of the citation 'DE10345154 A1 (DENSO CORP [JP])' is shown, including bibliographic data, publication date, inventor, applicant, and classifications. A yellow box highlights the 'DE10345154 A1' entry in the table, and another yellow box highlights the 'DE19714489 C1 (SIEMENS AG [DE])' entry, which is circled in the table. The detailed view on the right shows the title 'Hochdruck-kraftstoffpumpe für einen verbrennungsmotor' and the application number 'DE20031045154 20030929'.

| Application | Cat. | Citation details | Claims |
|---------------|------|---|--------|
| US20050095425 | | US6889656 B1 (BOSCH GMBH ROBERT [DE]) - 17 - 10 May 2005 | |
| US20050095425 | | US6823845 B1 (BOSCH GMBH ROBERT [DE]) - 30 November 2004 | |
| US20050095425 | | US6823845 B1 (BOSCH GMBH ROBERT [DE]) - 25 May 2004 | |
| EP20040425480 | x | DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 Page 3, paragraph 19 Figure 1 | 1-3 |
| JP20090214944 | | JP2004124727 A (DENSO CORP) - 22 April 2004 | |
| US20050095425 | | DE10345154 A1 (DENSO CORP [JP]) - 22 April 2004 | |
| JP20090214944 | | JP2004011448 A (NIPPON SOKEN, et al) - 15 January 2004 | |
| US20050095425 | | US6497216 B2 (BOSCH GMBH ROBERT [DE]) - 24 December 2002 | |
| US20050095425 | | US6439199 B2 (BOSCH REXROTH CORP [US]) - 27 August 2002 | |
| US20050095425 | | US6311674 B1 (DENSO CORP [US]) - 6 November 2001 | |
| US20050095425 | | US6253734 B1 (BOSCH GMBH ROBERT [US]) - 3 July 2001 | |
| US20050095425 | | US6234148 B1 (SIEMENS AG [US]) - 22 April 1997 | |
| JP20090214944 | | JP2001107776 A (NISSAN MOTOR) - 17 July 2001 | |
| JP20090214944 | | JP2000130288 A (TOYOTA MOTOR CORP) - 10 November 2000 | |
| JP20090214944 | | JP11230005 A (NIPPON SOKEN, et al) - 10 November 2000 | |
| JP20090214944 | | JP10299611 A (NIPPON SOKEN) - 10 November 2000 | |
| EP20040425480 | A | DE19714489 C1 (SIEMENS AG [DE]) - 15 April 1997 Figure 1 | |
| US20050095425 | | DE19714489 C1 (SIEMENS AG [DE]) - 15 April 1997 | |
| US20050095425 | | US5619970 A (LUCAS IND PLC [GB]) - 15 April 1997 | |
| US20050095425 | | US4957084 A (BOSCH GMBH ROBERT [DE]) - 18 September 1990 | |
| US20050095425 | | US4884545 A (IVECO FIAT [IT], et al) - 5 December 1989 | |
| EP20040425480 | A | EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989 Figure 1 | 1-8 |
| US20050095425 | | EP0299337 A2 (IVECO FIAT [IT], et al) - 18 January 1989 | |

Bibliographic data: DE 10345154 (A1)

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

Folglich kann die Erzeugung von ungleichmässiger Strömung um die Ventilkugel 15 verhindert werden und die Erzeugung von unnormalem Geräusch kann verhindert werden.

US citations in CCD

18 US

Application N°
US20070301700 (US12301700) - 22 May 2007

National Search Report

US2004127551 A1 (ZHANG KAI, , et al) - 1 July 2004

US6645528 B1 (ACUSPHERE INC [US]) - 11 November 2003

US5472954 A (CYCLOPS H F [IS])

24.11.2010

Bibliographic Data Sheet

US5472954 A (CYCLOPS H F [IS])

Applicant

24.11.2010

List of References cited by applicant and considered by examiner

US6645528 B1 (ACUSPHERE INC [US])

24.11.2010

Non-Final Rejection

US2004127551 A1 (ZHANG KAI, , et al)

24.11.2010

List of references cited by examiner

JP2001522816 A - 20 November 2001

JP2002537317 A - 5 November 2002

24.11.2010

Examiner's search strategy and results

JP2003500368 A - 7 January 2003

JP2003500438 A - 7 January 2003

JP2005075783 A (OTSUKA PHARMA FACTORY INC) - 24 March 2005

KR20000061113 A (BOLAK COMPANY LTD [KR], et al) - 16 October 2000

WO9830205 A1 (SONUS PHARMA INC [US]) - 16 July 1998

WO9855148 A1 (JANSSEN PHARMACEUTICA NV [BE], et al) - 10 December 1998

Citations Database: Top 10 Main offices of origin

| Country | First publication date | Number of citing publications | Number of cited patents | Number of cited non-patents |
|--------------------------|------------------------|-------------------------------|-------------------------|-----------------------------|
| UNITED STATES OF AMERICA | 04-02-1947 | 11 425 603 | 167 530 941 | 27 200 065 |
| JAPAN | 09-11-1965 | 5 071 602 | 19 816 033 | 453 775 |
| WIPO | 19-10-1978 | 3 294 659 | 16 312 310 | 4 346 752 |
| CHINA | 02-06-2010 | 2 924 018 | 14 126 563 | 1 705 684 |
| EUROPEAN PATENT OFFICE | 20-12-1978 | 2 592 831 | 10 235 245 | 3 335 114 |
| GERMANY | 18-09-1943 | 1 819 664 | 6 894 561 | 755 340 |
| KOREA | 07-01-2006 | 906 244 | 2 766 266 | 80 953 |
| FRANCE | 29-08-1969 | 666 441 | 2 497 330 | 306 360 |
| GREAT BRITAIN | 04-01-1979 | 573 139 | 2 315 470 | 104 202 |
| AUSTRALIA | 18-03-1971 | 388 841 | 987 570 | 84 435 |

Overview: Access options to citations of EP applications via EPO databases

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- EP-Register: bottom of page 'About this file'
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- CCD
- ...[other database providers]

Thank you

lutz.mailander@wipo.int