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|----------------------------------|--|-------------|---|--|--|-------------------------------|---|--|--|----------------------------------|--------------------------|-------------|--------------------------|----------------------------------|-------------------------------------|-------|-------------------------------------|-------------------|-------------------------------------|------------|--------------------------|
| Subject Coverage | <ul style="list-style-type: none">All areas of science and technology, i.e., all classes of the International Patent Classification | | | | | | | | | | | | | | | | | | | | |
| File Type | Bibliographic | | | | | | | | | | | | | | | | | | | | |
| Features | <table><tr><td>Thesauri</td><td colspan="3">Cooperative Patent Classification (CPC) and International Patent Classification (IPC)</td></tr><tr><td>Alerts (SDIs)</td><td colspan="3">Weekly or monthly (Weekly is the default)</td></tr><tr><td>CAS Registry Number® Identifiers</td><td><input type="checkbox"/></td><td>Page Images</td><td><input type="checkbox"/></td></tr><tr><td>Keep & Share</td><td><input checked="" type="checkbox"/></td><td>SLART</td><td><input checked="" type="checkbox"/></td></tr><tr><td>Learning Database</td><td><input checked="" type="checkbox"/></td><td>Structures</td><td><input type="checkbox"/></td></tr></table> | Thesauri | Cooperative Patent Classification (CPC) and International Patent Classification (IPC) | | | Alerts (SDIs) | Weekly or monthly (Weekly is the default) | | | CAS Registry Number® Identifiers | <input type="checkbox"/> | Page Images | <input type="checkbox"/> | Keep & Share | <input checked="" type="checkbox"/> | SLART | <input checked="" type="checkbox"/> | Learning Database | <input checked="" type="checkbox"/> | Structures | <input type="checkbox"/> |
| Thesauri | Cooperative Patent Classification (CPC) and International Patent Classification (IPC) | | | | | | | | | | | | | | | | | | | | |
| Alerts (SDIs) | Weekly or monthly (Weekly is the default) | | | | | | | | | | | | | | | | | | | | |
| CAS Registry Number® Identifiers | <input type="checkbox"/> | Page Images | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | |
| Keep & Share | <input checked="" type="checkbox"/> | SLART | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | |
| Learning Database | <input checked="" type="checkbox"/> | Structures | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | |
| Record Content | <ul style="list-style-type: none">Family data of patent documents, utility models, and design patents of more than 100 patent-issuing organizations including the European Patent Office (EPO) and the World Intellectual Property Organization (WIPO).Legal status data of 98 patent-issuing organizations (57 countries + from 41 countries of the national phases PCT/EP).Indexes are based on the patent families, where in INPADOCDB the indexes are based on the patent applications. The accession number AN in INPAFAMDB is the family number FN from INPADOCDB.Abstracts are provided for more than 45 million records with more than 43 million abstracts in English.Calculated expiration dates are provided for all patent authorities except WO and ID, see HELP XPD for details.Note: The family number can change due to corrections/updates of patent relevant numbers and codes. | | | | | | | | | | | | | | | | | | | | |
| File Size | <p>More than 66 million patent family records with about 125 million publications from 1782 to the present (10/2020)</p> <p>More than 325 million legal status data in more than 52 million patent families from 1968 to present (10/2020)</p> | | | | | | | | | | | | | | | | | | | | |
| Coverage | 1782-present | | | | | | | | | | | | | | | | | | | | |
| Updates | Weekly with 200,000-1,000,000 records and 400,000-1,000,000 legal status data | | | | | | | | | | | | | | | | | | | | |
| Language | English | | | | | | | | | | | | | | | | | | | | |
| Database Producer | European Patent Office Vienna Sub Office P.O. Box 90 Austria Phone: +43 1 52126-0 Fax: +43 1 52126-5491 Email: patentdata@epo.org Copyright Holder | | | | | | | | | | | | | | | | | | | | |

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76012 Karlsruhe
Germany
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Fax: +49 7247 808-259
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 - INPADOC Legal Status Service
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- User Aids**
- Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
-

- Cluster**
- ALLBIB
 - AUTHORS
 - CORPSOURCE
 - HPATENTS
 - PATENTS
- STN Database Cluster information:
<http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features>
-

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*).

Bibliographic Search Fields

| Search Field Name | Search Code | Search Examples | Display Codes |
|---|-------------------|--|--|
| Basic Index* (contains single words from title (TI) and abstract (AB) fields) | None or /BI | S TUBULAR HEAT EXCHANG? S ALUM? (S) COAT? S ?MAGNET? S ?METHYL?(T)?AMINO? | AB, ABDE, ABFR, ABES, ABOL, ABS, TI |
| Abstract* (contains ABDE, ABEN, ABES, ABFR, ABOL) (1) | /AB | S (DRILLING(W)PROCESS)/AB | AB, ABDE, ABEN, ABES, ABFR, ABOL, ABO |
| Abstract (English) | /ABEN | S CATABOLIC/ABEN | ABEN |
| Abstract (French) | /ABFR | S CATADIOPTRIQUE/ABFR | ABFR |
| Abstract (German) | /ABDE | S BEARBEITUNGSANLAGE/ABDE | ABDE |
| Abstract (other languages) | /ABOL | S CATODICAMENTE/ABOL | ABOL |
| Abstract (Spanish) | /ABES | S BEBIDAS/ABES | ABES |
| Abstract Language (ISO code and text) | /AL | S DUTCH/AL | ALL, ALLO, IMAX, MAX, MAXO |
| Accession Number (=patent family number FN in INPADOCDB) | /AN | S 12345678/AN | AN |
| Application Country (WIPO code and text) | /AC | S WO/AC AND (INLAND(W)STEEL)/PA | AI |
| Application Date (2) | /AD | S 19840705/AD | AI |
| Application ID (EPO) | /DOCID | S 23400004/DOCID | DOCID |
| Application Kind Code | /AK | S WOW/AK | AI, AIT |
| Application Kind Code Text | /AIT | S MWA/AIT | AIT |
| Application Number (3) | /AP | S ZW1981-215/AP | AI |
| Application Number Count (2) | /ACNT | S ACNT=3 | FSTAT |
| Application Number, Original | /APO | S KR6900415/APO | APO |
| Application Year (2) | /AY | S 1988/AY AND SIEMENS/PAS | AI |
| Calculated Expiration Date (2) | /XPD | S XPD=AUG 2023 | XPD |
| Calculated Expiration Year (2) | /XPY | S 2025-2026/XPY | XPY |
| Cooperative Patent Classification | /CPC | S D03D0015-0011/CPC | CPC |
| Country Number Count | /CCNT (or/CYC) | S 5/CCNT | FSTAT |
| CPC, Action Date (2) | /CPC.ACD | S 20130101/CPC.ACD | CPC.TAB |
| CPC, Combination Set Data | /CPC.CS | S A61K0009/CPC.CS | CPC.TAB |
| CPC, Keyword Terms | /CPC.KW | S INVENTION/CPC.KW | CPC.TAB |
| CPC, Version (2) | /CPC.VER | S 20130101/CPC.VER | CPC.TAB |
| Data Availability | /DAV | S NOT-PRINTED-WITH-GRANT/DAV | DAV |
| Date in Force (2,4) | /DF | S 20000127 /DF | DF |
| Designated States | /DS | S W JP/DS | DS |
| Document Number (INPADOCDB AN) | /DN | S 98543006/DN | DN |
| Document Type (code and text) | /DT (or /TC) | S U/DT AND UNILEVER/PAS | DT |
| Entry Date (2) | /ED | S L1 AND ED>2 JAN 2020 | ED |
| Entry Date New Patent Family (2) | /EDF | S 20200604 /EDF | EDF |
| Entry Date New Publication and/or New Legal Status (2) | /EDLS | S EDLS=20200514 | not displayed |
| Entry Date Patent (2) | /EDP | S 20200123 /EDP | EDP |
| Entry Date Priority (2) | /EDPR | S 2020 FEB/EDPR | PRAI |
| Entry Week (INPADOC) (2) | /EW | S 200816/EW | EW |
| Field Availability | /FA | S L7 AND AB/FA | FA |
| Filing Country for PCT Application (WIPO code and text) | /AC.WO | S FR/AC.WO | AI |

Bibliographic Search Fields (cont'd)

| Search Field Name | Search Code | Search Examples | Display Codes |
|--|--------------------------------------|---|--|
| Filing Country for PCT Priorities (WIPO code and text) | /PRC.WO | S DE/PRC.WO | PRAI |
| Filing Details | /FDT | S DED1/FDT | FDT |
| International Patent Classification (contains IPCI, IPCR) | /IPC | S H05B0006-36+NT/IPC S H05B0006-36-H05B0006-44/IPC | IC, ICA, ICI, ICM, ICS, IPCI, IPCR IN |
| Inventor | /IN (or /AU) | S MILLER/IN | IN |
| Inventor Address | /INA | S HEIDELBERG/INA | INA |
| Inventor INPADOC Standard | /INS | S AGARWAL S?/INS | INS |
| Inventor, Country | /IN.CNY | S US/IN.CNY | INS |
| IPC (contains ICM, ICS, ICA, ICI), Version 1-7 (5) | /IC | S C07H019-16/IC | IC |
| IPC, Action Date | /IPC.ACD | S 13 JAN 2006/IPC.ACD | IPC.TAB |
| IPC, Additional (supplementary) Version 1-7 (5) | /ICA | S H06B006-02 /ICA | ICA |
| IPC, Index (complementary) Version 1-7 (5) | /ICI | S C12P019-40/ICI | ICI |
| IPC, Keyword Terms | /IPC.KW | S INITIAL/IPC.KW | IPC.TAB |
| IPC, Main, Version 1-7 (5) | /ICM | S C23C0001-08/ICM | ICM |
| IPC, Secondary (5) | /ICS | S C12P0019-40/ICS | ICS |
| IPC, Version from IC | /IC.VER | S 7/IC.VER AND L5 | IC.VER, IC |
| IPC, Version from IPC | /IPC.VER | S 200601/IPC.VER | IPC.TAB |
| Japanese Patent Classification (FI- Terms) | /FCL (or /JPC) | S A01B0001-24 B/FCL | FCL |
| Japanese Patent Classification (F- Terms) | /FTRM (or /FTRM, or /JPCLA) | S 5H030/AA00/FTRM | FTRM |
| Language (ISO code and text) | /LA | S DE/LA | LA |
| Language of Filing (ISO code and text) | /LAF | S FR/LAF | LAF |
| Patent Assignee (6) | /PA (or /CS) | S INLAND STEEL/PA S BROWN WILLIAMSON/CS | PA |
| Patent Assignee Address | /PAA | S US/PAA AND EASTMAN KODAK/PAS | PAA |
| Patent Assignee INPADOC Standard | /PAS | S INLAND STEEL CO?/PAS S (BROWN(S)TOBACCO)/PAS | PAS |
| Patent Assignee, Country | /PA.CNY | S GB/PA.CNY | PAS |
| Patent Country (WIPO code and text) | /PC | S DE/PC AND IBM/PAS AND 1988/PY | PI |
| Patent Information Publication Type | /PIT | S ARA1/PIT | PIT |
| Patent Kind Code | /PK | S ZWA1/PK | PI |
| Patent Number (3) | /PN | S FI9902020/PN | PI |
| Patent Number Count | /PCNT | S 4/PCNT | FSTAT |
| Patent Number, Original | /PNO | S KR300392615S/PNO | PNO |
| Patent Number/Kind Code | /PNK | S WO2009006253A2/PNK | PNK |
| Patent Status | /STA | S GRANTED/STA AND LASER/TI | STA |
| Priority Country (WIPO code and text) | /PRC | S JP/PRC AND 19880101/PRD | PRAI |
| Priority Date (2) | /PRD | S JP/PRC AND 19880101-19880331/PRD | PRAI |
| Priority Date, First (2) | /PRDF | S MARCH 2009/PRDF | PRAI |
| Priority Kind Code | /PRK | S DEA/PRK | PRAI |
| Priority Kind Text | /PRAIT | S ARA PATENT APPLICATION/PRAIT | PRAIT |

Bibliographic Search Fields (cont'd)

| Search Field Name | Search Code | Search Examples | Display Codes |
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| Priority Number (3) | /PRN | S US1990-184420/PRN | PRAI |
| Priority Number Count (2) | /PRCNT | S 6-7/PRCNT | FSTAT |
| Priority Number, Original | /PRNO | S KR1997055047/PRNO | PNO |
| Priority Year (2) | /PRY | S 1998/PRY AND US/PRC | PRAI |
| Priority Year, First (2) | /PRYF | S GB/PC AND 1998/ PRYF | PRAI |
| Publication Date (2) | /PD | S 19990104/PD | PI |
| Publication ID (EPO) | /PUBID | S 23409/PUBID | PUBID |
| Publication Year (2) | /PY | S 1999/PY | PI |
| Simple Family Number (EPO) | /SFN | S 12300006/SFN | SFN |
| Simple Family Number Count (EPO) (2) | /SFCNT | S 5/SFCNT | FSTAT |
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| Title (French) | /TIFR | S CATADIOPTRIQUE/TIFR | TIFR |
| Title (German) | /TIDE | S BEARBEITUNGSANLAGE/TIDE | TIDE |
| Title (other languages) | /TIOL | S CATODICAMENTE/TIOL | TIOL |
| Title (Spanish) | /TIES | S BEBIDAS/TIES | TIES |
| Title Language (ISO code and text) | /TL | S EN/TL S ENGLISH/TL | TL |
| Title of Invention (contains TIDE, TIEN, TIES, TIFR, TIOL) | /TI | S (FILTER? (S) ELECTR? (S) MEMBRAN#)/TI | TI, TIDE, TIEN, TIES, TIFR, TIOL, TIO |
| Update Date (2) | /UP | S L1 AND UP>20200102 | UP |
| Update Date All Patent Changes (2) | /UPM | S L1 AND 20200702/UPM | not displayed |
| Update Date Classifications (2) | /UPCC | S L1 AND UPCC> 20200702 | UPALL |
| Update Date for combined or split Patent Family | /UPFC | S UPFC=OCT 2019 | UPALL |
| Update Date New Patent Family Record (2) | /UPFD | S 20200702/UPFD | UPALL |
| Update Date New Publication and/or Legal Status Changes of the family (all updates in /UPFB, /UPFL)(2) | /UPFE | S 20200702/UPFE | UPALL |
| Update Date of the BIB fields (2) | /UPBB | S L1 AND UPBB> 20200702 | UPALL |
| Update Date Patent Family (2) (all updates in /UPFB, /UPFC, /UPFL) | /UPFA | S 20200702/UPFA | UPALL |
| Update Date Patent Family Legal Status (2) | /UPFL | S 20200702/UPFL | UPALL |
| Update Date Patent Family Publication Level (2) | /UPFP | S 20200702/UPFP | UPALL |
| Update Date Patent Family Bibliographic (2) | /UPFB | S 20200702/UPFB AND L7 | UPALL |
| Update Week (INPADOC Week) (2) | /UW | S UW=201806 | UW |

- (1) This field is available for selected countries and patent publications.
(2) Numeric search field that may be searched using numeric operators or ranges.
(3) Either STN format or Derwent format may be used.
(4) For German Utility Models: Advertisement of registration.
(5) Search in IPC8 format also available.
(6) Search with implied (S) proximity is available.

Legal Status Search Fields

| Search Field Name | Search Code | Search Examples | Display Codes |
|--|-------------|--|---------------|
| Entry Date new publication and/or New Legal Status (1) | /EDLS | S EDLS=FEB 2019 | not displayed |
| Legal Status Basic Index (contains legal status agent (LSAG), legal status free format text (LSFT), legal status inventor (LSIN), legal status patent opponent (LSOP), and legal status patent assignee (LSPA) fields) | /LSBI | S LASER?/LSBI S ANACOMP/LSBI S OPPOSITE/LSBI | LS |
| Legal Status Code (code and text) | /LSC | S EP111L/LSC | LS |
| Legal Status Code Category | /LSC2 | S LAP/LSC2 | LS |
| Legal Status Code Country (WIPO code and text) | /LSCC | S BE/LSCC | LS |
| Legal Status Country (WIPO code and text) | /LSCY | S UNITED KINGDOM/LSCY | LS |
| Legal Status Date in Force (1) | /LSDF | S LSDF=20050109 | LS |
| Legal Status Date INPADOC GAZETTE (1) | /LSD | S LSD=JAN 2020 | LS |
| Legal Status Designated States (WIPO code and text) | /LSDS | S AU/LSDS S AUSTRALIA/LSDS | LS |
| Legal Status Free Format Text | /LSFT | S TELECOMMUNICATION/LSFT | LS |
| Legal Status Indicator | /LSCI | S POSITIVE/LSCI | LS |
| Legal Status IPC | /LSIC | S A01B0001/24 /LSIC | LS |
| Legal Status Licensee | /LSLI | S BAYER/LSLI | LS |
| Legal Status Number Count | /LSCNT | S 30-40/LSCNT | LS |
| Legal Status Patent Inventor | /LSIN | S MAYER, BERND/LSIN S (MAYER(S)BERND)/LSIN | LS |
| Legal Status Represen./Agent | /LSAG | S (LORENZ AND PHILIPPS)/LSAG | LS |
| Legal Status Code Text | /LSTX | S CORRECTION/LSTX | LS |
| Legal Status Patent Assignee (2) | /LSPA | S (MAN CERAMICS)/LSPA | LS |
| Legal Status Patent Opponent | /LSOP | S SIEMENS AG/LSOP | LS |
| Legal Status, Payment Year (1) | /LSPMY | S 6/LSPMY | LS |
| Legal Status Publication Country (WIPO code and text) | /LSPC | S CA/LSPC S CANADA/LSPC | LS |
| Legal Status Publication Date (1) | /LSPD | S LSPD=JAN 1998 | LS |
| Legal Status Publication Kind Code | /LSPK | S ESA1/LSPK | LS |
| Legal Status Publication Number | /LSPN | S EP200212/LSPN | LS |
| Legal Status Publication Year (1) | /LSPY | S 1999-2000/LSPY | LS |
| Legal Status SPC Number | /LSSPC | S EU/1/00/137/001/LSSPC | LS |
| Legal Status SPC, Expiry Date (1) | /LSSPC.XD | S LSSPC.XD>2025 | LS |
| Legal Status SPC, Extension Date (1) | /LSSPC.EX | S 20230930 /LSSPC.EX | LS |
| Legal Status SPC, Filing Date (1) | /LSSPC.FD | S 20190102- 20190116/LSSPC.FD | LS |
| Update Date Legal Status (1) | /UPLS | S 20200827 /UPLS | LS, LSUP |

(1) Numeric search field that may be searched using numeric operators or ranges.

(2) Search with implied (S) proximity is available.

Super Search Fields

Enter a super search code to execute a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.

| Search Field Name | Search Code | Fields Searched | Search Examples | Display Codes |
|---|----------------|---|--|-------------------|
| Application Number Group (1) | /APPS | /AP, /PRN | S DE1984-3400052/APPS S 1984DE-3400052/APPS | AI, PRAI |
| Inventor Group Patent Assignee Group (2) | /INSS /PASS | /IN, /INS, /LSIN /PA, /PAS, /LSPA | S MEIE/INSS S FOOD AUTOMAT?/PASS | IPC PI |
| Patent Number Group (1) Patent Countries | /PATS /PCS | /PN, /RPN /DS, /PC | S WO1989004114/PATS S DE/PCS | PI, REP PI, DS |

(1) Either STN or Derwent format may be used.

(2) Search with implied (S) proximity is available in this field.

IPC THESAURUS

The classifications, validity and catchwords for the main headings and subheadings from the current (8th) edition of the WIPO International Patent Classification (IPC) manual are available. The classifications from the previous editions (1-7) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-8, use the field code followed by the edition number, e.g., /IPC2 for the 2nd edition. Catchwords are included only in the thesauri for the 8th, 7th, 6th, and 5th editions.

| Code | Content | Examples |
|----------------|--|----------------------------|
| ADVANCED (ADV) | Advanced Level Codes for the Core Level IPC Code | E A61K0066-02+ADVANCED/IPC |
| ALL | All Associated Terms (BT, SELF, NT, RT) | E C01C003-00+ALL/IPC |
| BRO (MAN) | Complete Class | E C01C+BRO/IPC |
| BT | Broader Term (SELF, BT) | E C01F001-00+BT/IPC |
| BTn | Broader Term (SELF, BT) up to the next n levels (n =1,2,...) | E C01F001-21+BT2/IPC |
| CORE (COR) | Core Codes for the Advanced Level IPC Code | E G08C0019-22+CORE/IPC |
| ED | Complete title of the SELF term and IPC manual | E C01F001-00+ED/IPC |
| HIE | Hierarchy Term (Broader and Narrower Term) (BT, SELF, NT) | E C011003-00+HIE/IPC |
| INDEX | Complete title of the SELF term | E C01F001-00+INDEX/IPC |
| KT | Keyword Term (catchwords) (SELF, KT) | E CYANOGEN+KT/IPC |
| NEXT | Next Classification | E C01C001-00+NEXT5/IPC |
| NT | Narrower Terms (SELF, NT) | E C01C+NT/IPC |
| NTn | Narrower Terms (SELF, NT) down to the next n levels (n =1,2,...) | E C01C+NT3/IPC |
| PREV | Previous Code within the same class (SELF, PREV) | E C01C001-12+PREV/IPC |
| PREV(n) | Previous n classifications within the same class | E C01C001-12+PREV10/IPC |
| RT (SIB) | Related Terms (SELF, RT) | E C01C003-20+RT/IPC |
| TI | Complete Title of the SELF Term and Broader Terms (BT, SELF) | E C01F001-00+TI/IPC |

CPC Thesaurus

The thesaurus is available in the/CPC search field. All relationship codes can be used with both the EXPAND and SEARCH commands.

| Relationship Code | Content | Search Examples |
|---|---|---|
| ALL AUTO (1) BT CODE | All usually required terms (BT, SELF, CODE, DEF) Automatic relationship (BT, SELF, CODE, DEF) Broader terms (BT, SELF) Classification Code (SELF, CODE) | E C12M0001-34H2+ALL/CPC E G01J003-443+AUTO/CPC E G01J003-443+BT/CPC E SCRAPER BIASING MEANS+CODE/CPC |
| DEF HIE | Definition (SELF, DEF) Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT) | E B65G0045-16+DEF/CPC E A01B0001+HIE/CPC |
| KT MAX NEXT NEXT(n) NT PREV PREV(n) TI | Keyword terms (SELF, KT) All associated terms Next classification within the same class (SELF, NEXT) Next n classification within the same class Narrower terms Previous Code within the same class (SELF, PREV) Previous n classifications within the same class Complete Title of the SELF Term and Broader Terms (BT, SELF) | E LASER+KT/CPC E G01J003-44B+MAX/CPC E A01B0001-24+NEXT/CPC E A01B0001-24+NEXT3/CPC E G05B0001-04+NT/CPC E G05B0019-418N1+PREV/CPC E G05B0019-418N1+PREV2/CPC E G05B0001-03+TI/CPC |

(1) Automatic Relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

DISPLAY and PRINT Formats

Any combination of display fields and formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g. 'D L1 1-5 FAM MFAM. The fields are displayed or printed in the order requested. The content for some fields and formats is de-duplicated in INPAFAMDB. Depending on the content the de-duplicated display for a single field is charged with the full family price, when the family information for this field is displayed in full.

Hit-term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, OCC and .H formats.

You can combine all display fields and all display formats with suffices (will be charged as a full family display):

- .B shows the earliest publication (basic)
- .M shows the complete family
- .H shows only the publications where a HIT of a search occurs
- .P shows the latest publication(s)
- .U shows the latest updated publication(s)

The default format is the format BRIEF with de-duplicated content of the fields TI, INS, PAS, IPCI, IPCR, FTRM, FCL, 1 selected English abstracts (IN, PA when INS, PAS is not available).

The English abstract is either from EP, WO, GB, another English equivalent abstract or one original language abstract.

An overview of special family formats (details of the formats see below)

DISPLAY and PRINT Formats (cont'd)

| Dedup. FAMILY formats | .B earliest publ. | .M (=M) complete family | .H publ. with HIT *) | .P latest publ. | .U latest update |
|-----------------------|-------------------|-------------------------|----------------------|-----------------|------------------|
| BRIEF (default) | | | | | |
| BIB | BIB.B | BIB.M | BIB.H | BIB.P | BIB.U |
| IBIB | IBIB.B | IBIB.M | IBIB.H | IBIB.P | IBIB.U |
| STD | STD.B | STD.M | STD.H | STD.P | STD.U |
| ALL | ALL.B | ALL.M | ALL.H | ALL.P | ALL.U |
| ALLO | ALLO.B | ALLO.M | ALLO.H | ALLO.P | ALLO.U |
| IALL | IALL.B | IALL.M | IALL.H | IALL.P | IALL.U |
| IND | | | | | |
| | MAX.B | | MAX.H | MAX.P | MAX.U |
| | MAXO.B | | MAXO.H | MAXO.P | MAXO.U |
| | IMAX.B | | IMAX.H | MAXO.P | IMAX.U |
| | PI.B | | PI.H | PI.P | PI.U |
| | PI.PDF.B | | PI.PDF.H | | PI.PDF.U |
| | | TI.M | TI.H | | |

*) Displays data of all family members and/or legal status (in MAX-formats) with HIT terms.

DISPLAY and PRINT Formats

(DE-DUP= De-duplicated family content)

| Family related Display Formats | DE-DUP (D) | Definition | Examples |
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| ABS | - | AN, AL, AS, ABDE, ABEN, ABES, ABRF, ABOL | D ABS |
| ALL (1) | D | BIB, plus AB, IND, FA | D ALL 6 |
| IALL (1) | D | ALL, indented with text labels | D IALL L3 7 |
| ALLO | D | ALL, PNO, APO, PRNO, FSTAT, plus data in original characters (UTF-8) | D ALLO |
| BIB (1) | - | AN, DN, ED, EW, UP, UW, TIDE, TIEN, TIES, TIFR, TIOL, TL, IN, INS, INA, PA, PAS, PAA, DT, LA, LAF, PI, PIT, DAV, DF, STA, DS, AI, AIT, PRAI, PRAIT, XPD deduplicated: AN, EDF, EWF, UPFB, UWF, UPFC, DN, TI, INS, PAS, PI, AI, PRAI, REC | D BIB |
| IBIB (1) | D | BIB, indented with text labels | D 5 IBIB |
| BRIEF | D | TIEN, INS, PAS, IPCI, IPCR, CPC, NCL, FTRM, FCL (IN, PA when INS, PAS not available) 1 selected English abstract and a patent family table of PI, AI, and PRAI (BRIEF is the default) | D BRIEF |
| IND | D | AN, ED, EW, UP, UW, IPC, CPC, IFTRM, FCL, LCL, OCL | D L5 IND |
| MAX (1) | - | BIB, plus AB, IN, SFN, PUBID, DOCID, FA, LS, for all family members | D MAX |
| IMAX (1) | - | MAX, with indented text labels | D IMAX |
| MAXO (1) | - | MAX, PNO, APO, PRNO plus data in original characters (UTF-8) | D MAX |
| MAXO2 (1) | - | MAXO, plus display of special characters in the abstract | D MAXO2 |
| STD (1) | D | BIB, IND | D STD |

DISPLAY and PRINT Formats (cont'd)

(DE-DUP= De-duplicated family content)

| Family related Display Formats | DE-DUP (D) | Definition | Examples |
|--------------------------------|------------|--|----------|
| IC | - | International Patent Classification (ICM, ICS) | D IC |
| IPC | - | all IPC information for the family IC, IPCI, IPCR | D IPC |
| PATS (1) | - | Patent Number Group (PI, REP) | D PATS |
| UPALL | - | Table of update dates (AN, UPFC, UPFB, UPFD, EDF, DN, EDB, UP, ED) | D UPALL |
| TIPI (1) | - | TI + PI for all patent family members | D TIPI |
| PILS (1,4) | - | PI + LS for all patent family members | D PILS |
| BIBLS (1) | - | BIB + LS for all patent family members | D BIBLS |
| CFAM (1) | - | Condensed FAM with only PI in the table | D CFAM |
| CFAM2 (1) | - | Display for the condensed family table PI, AI, PRAI | D CFAM2 |
| DFAM (1) | - | FAM, delimited for post processing | D DFAM |
| EFAM (1) | - | FAM, but the priority information constitutes the header | D EFAM |

| Family related Display Formats | DE-DUP (D) | Definition | Examples |
|--------------------------------|------------|---|-----------|
| FAM (1) | - | AN, table of patent family information | D FAM |
| FAM2 (1) | - | AN, table of patent family information, another order | D FAM2 |
| FAMLS (1) | - | Comprises the family table CFAM2 plus a list of all legal status entries, sorted by legal status date LSD | D FAMLS |
| FFAM (1) | - | STD + LS for each member of the family | D FFAM |
| FFAM.PC (1,2) | - | FFAM for a specified country only | D FFAM.US |
| FSTAT | - | All count numbers with PRCNT, ACNT, PCNT, SFCNT, CCNT, LSCNT | D FSTAT |
| IFAM (1) | - | Combines indented FAM and IMAX | D IFAM |
| IFAM2 | - | IFAM, without abstract, classification and citation | D IFAM2 |
| LFAM (1) | - | AN, PI, LSUP for all members of a patent family | D LFAM |
| MFAM (1) | - | MAX for each family member | D MFAM |
| MFAM.PC (1,2) | - | MAX for each family member for a specific country only | D MFAM.EP |
| PI.PDF (1) | - | Patent family PI information plus hyperlinks to the original documents (pdf) in espacenet | D PI.PDF |
| SFAM (1) | - | Display of the EPO 'simple patent family' (SFN) within the INPADOC patent family table | D SFAM |
| SCAN (3) | - | TI latest publication (random display without answer number) | D SCAN |
| TRIAL (TRI, FREE, SAMPLE, SAM) | D | one TI (TIEN), IPCI, IPCR, CPC, FTRM, FCL, FA | D TRIAL 5 |

(1) Application, patent, and priority number are available in STN and Derwent format. The format for DISPLAY, PRINT, SELECT, and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the Derwent format. To reset to the STN format, enter SET PAT STN.

(2) PC = all patent countries.

(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

(4) In format PILS legal status is displayed without the information PRI, APP, and PUB.

DISPLAY Fields

If a single field name is entered, either the de-duplicated content or the full family information for this field will be displayed (and in this latter case the field will be charged with the full family price)

| Display Fields | DE-DUP | Definition | Examples |
|-------------------------------|--------|--|--------------|
| AB | D | Abstract | D AB |
| ABDE | D | Abstract German | D ABDE |
| ABEN | D | Abstract English | D ABEN |
| ABES | D | Abstract Spanish | D ABES |
| ABFR | D | Abstract French | D ABFR |
| ABO | D | Abstract, Original | D ABO |
| ABOL | D | Abstract in other language | D ABOL |
| AI (1) | - | Application Information | D AI |
| AIT | D | Application Kind Code Text | D AIT |
| AL | - | Abstract Language | D ABS |
| AN | - | Accession Number | D AN |
| AP | - | Application Number | D AP |
| APO | - | Application Number Original | D APO |
| APPS (1) | - | Application Number Group | D APPS |
| AS | - | Abstract Source | D ABS |
| CPC | - | Cooperative Patent Classification | D CPC |
| DAV | - | Data Availability | D DAV |
| DF | - | Date in Force | D DF |
| DN | - | Document Number (INPADOCDB AN) | D DN |
| DOCID | - | Application ID | D DOCID |
| DS | - | Designated States | D DS |
| DT (TC) | - | Document Type | D DT |
| ED | D | Entry Date | D 1-5 ED UP |
| EDP | - | Entry Date Patent | D EDP |
| EW | D | Entry Week | D EW |
| FA | D | Field Availability | D FA |
| FCL (JPC) | D | Japanese Patent Classifications (FI-Terms) | D FCL |
| FDT | D | Filing Details | D FDT |
| FSTAT | - | PRCNT, ACNT, PCNT, SFCNT, CCNT, LSCNT | D FSTAT |
| FTRM (FTERM, FTCLA, JPCLA) | D | Japanese Patent Classifications (F-Terms) | D FTRM |
| IC | - | International Patent Classification | D IC |
| ICA | D | IPC, Additional (supplementary) | D ICA |
| ICI | D | IPC, Index (complementary) | D ICI |
| ICM | D | IPC, Main | D ICM L7 |
| ICS | D | IPC, Secondary | D ICS |
| IN | D | Inventor | D IN |
| IN.CNY | - | Inventor, Country | D INS |
| INA | D | Inventor Address | D INA |
| INO | - | Inventor, Original | D ALLO |
| INS | D | Inventor INPADOC Standard | D INS |
| IPCI | D | IPC, Initial | D IPCI |
| IPCR | D | IPC, Reclassified | D IPCR |
| LA | D | Language | D LA |
| LAF | D | Language of Filing | D LAF |
| PA (CS) | D | Patent Assignee | D PA TI 1-10 |
| PAA | - | Patent Assignee Address | D PAA |
| PA.CNY | - | Patent Assignee, Country | D PA.CNY |
| PAS | D | Patent Assignee INPADOC Standard | D PAS |
| PAO | - | Patent Assignee, Original | D ALLO |
| PI (PN) (1) | - | Patent Information | D PI |
| PI.B (PN.B) | - | Patent Information, Basic | D PI.B |
| PIT | - | Patent Information Publication Type | D PIT 1-5 |

INPAFAMDB**DISPLAY Fields (cont'd)**

| Display Fields | DE-DUP | Definition | Examples |
|-----------------------|---------------|---|-----------------|
| PNC.G | - | Citing Patent Number Count | D PNC.G |
| PNK | - | Patent Number/Kind Code | D PNK |
| PNO | - | Patent Number Original | D PNO |
| PRAI (PRN) (1) | D | Priority Information | D PRAI |
| PRAIT | D | Priority Kind Text | D PRAIT |
| PRNO | - | Priority Application Number, Original | D ALLO |
| PUBID | - | Publication ID | D PUBID |
| STA | - | Status | D STA |
| TI | D | Title | D TI |
| TIDE | D | Title (German) | D TIDE |
| TIEN | D | Title (English) | D TIEN |
| TIES | D | Title (Spanish) | D TIES |
| TIFR | D | Title (French) | D TIFR |
| TIO | D | Title, Original | D TIO |
| TIOL | D | Title (other languages) | D TIOL |
| TL | D | Title Language | D TL |
| UP | D | Update Date | D UP |
| UW | D | Update Week (INPADOC Week) | D UW |
| XPD | - | Calculated Expiration Date | D XPD |
| XPY | - | Calculated Expiration Year | D XPY |
| HIT | - | Hit term(s) and field(s) | D HIT |
| KWIC | - | Up to 50 words before and after hit term(s) (KeyWord-In-Context) | D KWIC |
| OCC | - | Number of occurrences of hit term(s) and field(s) in which they occur | D OCC |

- (2) Application, patent, and priority number are available in STN and Derwent format. The format for DISPLAY, PRINT, SELECT, and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the Derwent format. To reset to the STN format, enter SET PAT STN.

Default sorting within the Patent Family Display Formats

| Format | Default sorted by |
|---------------|---|
| FAM | PRN (Priority Number) |
| DFAM | PRN (Priority Number) |
| EFAM | PRN (Priority Number) |
| FFAM | PN (Patent Number) of the highest level |
| LFAM | PN (Patent Number) of the highest level |
| CFAM | AP (Application Number) |

UPDATE and SDI

UPDATE CODES (for SDI also)

Update codes or entry dates associated with records

| Field Name | Search Code | Search Examples | Display Code |
|--|-------------|--------------------------|---------------|
| Entry Date | /ED | S L1 AND ED>DEC 2019 | ED |
| Entry Date + Legal Status Update | /EDLS | S 20200924/EDLS | not displayed |
| Entry Date Patent | /EDP | S 20200109/EDP | EDP, UPALL |
| Entry Date Priority | /EDPR | S 20200924/EDPR | PRAI |
| Update Date | /UP | S 20200102 /UP | LS |
| Update Date of the BIB fields | /UPBB | S L1 AND UPBB> 20200102 | UPALL |
| Update Date Classifications | /UPCC | S L1 AND UPCC> 20200102 | UPALL |
| Update Legal Status | /UPLS | S 20200102 2/UPLS | LS |
| All updates of a record | /UPM | S 20200102 /UPM | not displayed |
| Entry Date new patent family | /EDF | S L1 AND EDF>21 MAR 2020 | UPALL |
| All changes in a patent family | /UPFA | S L1 AND 20200102/UPFA | not displayed |
| Any change of a bibliographic element in a patent family | /UPFB | S L1 AND 20200102/UPFB | UPALL |
| Update Date for combined or split Patent Family (1) | /UPFC | S L1 AND UPFC=OCT 2019 | UPFC |
| Entry of a new database record document into a patent family (level 1) | /UPFD | S L1 AND 20200102UPFD | UPALL |
| Entry of a new publication and changes in legal status | /UPFE | S L1 AND 20200102/UPFE | not displayed |
| Any change of a legal status in a patent family | /UPFL | S L1 AND 20200102/UPFL | UPALL |
| Entry of a new publication level into a patent family | /UPFP | S L1 AND 20200102/UPFP | UPALL |

Family Display and Print Formats – Weekly SDI

| Format | Definition | Examples |
|--------------------------|--|-------------|
| FFAMED (1) IFAMED (1) | STD for new publications and/or LSUP for each updated family | D FFAMED |
| FFAMED.PC (1,2) | Indented FFAMED plus patent family table | D IFAMED |
| FFAMUP (1) | FFAMED for a specific country only | D FFAMED.US |
| IFAMUP (1) | STD + LS for each updated family | D FFAMUP |
| FFAMUP.PC (1,2) | Indented FFAMUP plus patent family table | D IFAMUP |
| LFAMUP (1) | FFAMUP for a specific country only | D FFAMUP.WO |
| LFAMUP.PC (1,2) | AN, PI, LSUP for all updated members of a patent family | D LFAMUP |
| | LFAMUP for a specific country only | D LFAMUP.EP |

Family Display and Print Formats – Monthly SDI

| Format | Definition | Examples |
|----------------------------|--|-----------|
| FFAMED4 (1) IFAMED4 (1) | STD for new publications and/or LSUP for each updated family | D FFAMED4 |
| FFAMUP4 (1) | Indented FFAMED4 plus patent family table | D IFAMED4 |
| IFAMUP4 (1) | STD + LS for each updated family | D FFAMUP4 |
| LFAMUP4 (1) | Indented FFAMUP4 plus patent family table | D IFAMED4 |
| | AN, PI, LSUP for all updated members of a patent family | D LFAMUP4 |

(1) Application, patent, and priority number are available in STN and Derwent format. The format for DISPLAY, PRINT, SELECT, and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the Derwent format. To reset to the STN format, enter SET PAT STN.

(2) PC = AR, AT, AU, BE, BR, CA, CH, CN, DE, DK, EP, ES, FI, FR, GB, IL, IT, JP, KR, MX, NL, NO, RU, SE, TW, US, WO

INPAFAMDB**SELECT, ANALYZE, and SORT Fields**

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

| Field Name | Field Code | ANALYZE/ SELECT (1) | SORT |
|---|------------|------------------------|------|
| Abstract | AB | Y | N |
| Abstract (English) | ABEN | Y | N |
| Abstract (French) | ABFR | Y (2) | N |
| Abstract (German) | ABDE | Y (2) | N |
| Abstract (Original Language) | ABOL | Y (2) | N |
| Abstract (Spanish) | ABES | Y (2) | N |
| Application Country | AC | Y | N |
| Application Date | AD | Y | N |
| Application Kind Code | AK | Y | N |
| Application Kind Code Text | AIT | Y | N |
| Application Number | AP (AI) | Y (3) | N |
| Application Number Count | ACNT | Y | Y |
| Application Number Group | APPS | Y (3,4) | N |
| Application Number, Original | APO | Y | N |
| Application Year | AY | Y | N |
| Calculated Expiration Date | XPD | Y | N |
| Calculated Expiration Year | XPY | Y | N |
| Cooperative Patent Classification | CPC | Y | N |
| Date in Force | DF | Y | N |
| Designated State | DS | Y | N |
| Document Type | DT (TC) | Y | N |
| Entry Date | ED | Y | N |
| Entry Date Patent | EDP | Y | N |
| Entry Week | EW | Y | N |
| EPO Simple Family Member Count | FCNT | Y | N |
| Filing Details | FDT | Y | N |
| INPADOCDB Document Number | DN | Y | N |
| International Patent Classification | IC | Y | N |
| International Patent Classification | IPC | Y | N |
| Inventor | IN (AU) | Y | N |
| Inventor, Country | IN.CNY | Y | N |
| Inventor Address | INA | Y | N |
| Inventor INPADOC Standard | INS | Y | N |
| IPC, Additional (supplementary) | ICA | Y | N |
| IPC, Index (complementary) | ICI | Y | N |
| IPC, Initial | IPCI | Y (5) | N |
| IPC, Main | ICM | Y | N |
| IPC, Reclassified | IPCR | Y (5) | N |
| IPC, Secondary | ICS | Y | N |
| Japanese Patent Classification (FI-Terms) | FCL | Y | N |
| Japanese Patent Classification (F-Terms) | FTRM | Y | N |
| Language | LA | Y | N |
| Language of Filing | LAF | Y | N |
| Legal Status Code | LSC | Y | N |
| Legal Status Code Category | LSC2 | Y | N |
| Legal Status Code Country | LSCC | Y | N |
| Legal Status Date INPADOC GAZETTE | LSD | Y | N |
| Legal Status Free Format Text | LSFT | Y | N |
| Legal Status IPC | LSIC | Y | N |
| Legal Status Patent Assignee | LSPA | Y | N |

SELECT, ANALYZE, and SORT Fields (cont'd)

| Field Name | Field Code | ANALYZE/ SELECT (1) | SORT |
|-------------------------------------|-------------|------------------------|------|
| Legal Status Patent Inventor | LSIN | Y | N |
| Legal Status Patent Opponent | LSOP | Y | N |
| Legal Status, Payment Year | LSPMY | Y | N |
| Legal Status Publication Country | LSPC | Y | N |
| Legal Status Publication Date | LSPD | Y | N |
| Legal Status Publication Number | LSPN | Y | N |
| Legal Status Representative/Agent | LSAG | Y | N |
| Legal Status SPC Number | LSSPC | Y | N |
| Legal Status SPC, Expiry Date | LSSPC.XD | Y | N |
| Legal Status SPC, Extension Date | LSSPC.EX | Y | N |
| Legal Status SPC, Filing Date | LSSPC.FD | Y | N |
| Occurrence Count of Hit Terms | OCC | N | Y |
| Patent Assignee | PA (CS) | Y | N |
| Patent Assignee Address | PAA | Y | N |
| Patent Assignee, Country | PA.CNY | Y | N |
| Patent Assignee INPADOC Standard | PAS | Y | N |
| Patent Number Group | PATS | Y (3,6) | N |
| Patent Number/Kind Code | PNK | Y | N |
| Patent Number, Basic/Kind Code | PNK.B | Y | Y |
| Patent Country | PC | Y | N |
| Patent Country, Basic | PC.B | Y | Y |
| Patent Information Publication Type | PIT | Y | N |
| Patent Kind Code | PK | Y | N |
| Patent Kind Code, Basic | PK.B | Y | Y |
| Patent Number | PN (PI) | Y (3) | Y |
| Patent Number, Basic | PN.B (PI.B) | Y | Y |
| Patent Number, Original | PNO | Y | N |
| Patent Status | STA | Y | N |
| Priority Country | PRC | Y | N |
| Priority Country, First | PRCF | Y | Y |
| Priority Date | PRD | Y | N |
| Priority Date, First | PRDF | Y | Y |
| Priority Kind Code | PRK | Y | Y |
| Priority Kind Text | PRAIT | Y | N |
| Priority Number | PRN (PRAI) | Y (3) | N |
| Priority Number Count | PRCNT | Y | Y |
| Priority Number, Original | PRNO | Y | N |
| Priority Year | PRY | Y | N |
| Priority Year, First | PRYF | Y (7) | Y |
| Publication Date, Basic | PD.B | Y | Y |
| Publication Date | PD.M | Y | N |
| Publication Year, Basic | PY.B | Y | Y |
| Title | TI | Y (default) | N |
| Title (English) | TIEN | Y | N |
| Title (French) | TIFR | Y | N |
| Title (German) | TIDE | Y | N |
| Title (Spanish) | TIES | Y | N |
| Title (other languages) | TIOL | Y | N |
| Title Language | TL | Y | N |
| Update Date | UP | Y | N |
| Update Week | UW | Y | N |

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
- (2) Appends /AB to the terms created by SELECT.
- (3) SELECTed and SORTed application, priority and patent numbers are in the format set by the Messenger SET PATENT command, either DERWENT or STN.
- (4) Selects or analyzes AP, PRN, and appends /APPS to the terms created by SELECT.
- (5) Appends /IPC to the terms created by SELECT.
- (6) Selects or analyzes /PN, /RPN with /PATS appended to the terms created by SELECT.
- (7) SELECT or ANALYZE HIT are not valid with this field.

Sample Records**DISPLAY BRIEF (default)**

AN 65149450 INPAFAMDB EWF 201947 UWF 202022 EDF 20191121 UPFB 20200528

TI POSITION SENSING DEVICE

INS MUNDER GUNNAR, DE; TEICHMANN PETER, DE

PAS MELEXIS TECHNOLOGIES NV, BE

IPC1 G01B0007-00; G01D0001-16; G01D0005-20

CPC G01B0007-003; G01D0001-16; G01D0005-204; G01D0005-2013; G01D0005-2053

AB The present invention relates to a device for position sensing comprising sensing means arranged for producing at least two sensor signals (INO, IN1, IN2), and a signal construction unit (40) arranged for obtaining from said at least two sensor signals at least two time-synchronous signals, said signal construction unit comprising-selection means (21) for selecting in a serial way one of the at least two time-synchronous signals,- sampling means (15) for sampling the selected time-synchronous signal at given sampling instants,- storage means (34) for storing sampled data representing the selected time-synchronous signal and timing information indicating which of the given sampling instants were used to obtain the sampled data,- processing means (33) for determining at one of the given sampling instants a value for at least one of said time-synchronous signals that was not sampled at the one given sampling instant by performing an interpolation using data values of the at least one time synchronous signal stored in the storage means and obtained at another point in time than the one given sampling instant.
(EP3569986 A1).

PATENT FAMILY INFORMATION INPAFAMDB

| | | | |
|----------------------------|-------------|----------------------------|------------|
| +----- Publications -----+ | | +----- Applications -----+ | |
| CN 110487304 | A 20191122 | CN 2019-10211238 | A 20190320 |
| CN 110487304 | B 20200414 | | |
| EP 3569986 | A1 20191120 | EP 2018-172083 | A 20180514 |
| EP 3569986 | B1 20200408 | | |
| US 20190346249 | A1 20191114 | US 2019-16411351 | A 20190514 |

| | |
|--------------------------|------------|
| +----- Priorities -----+ | |
| EP 2018-172083 | A 20180514 |

1 priority, 3 applications, 5 publications (1 EPO simple family)
3 countries, 27 legal status events

DISPLAY FAM

PATENT FAMILY INFORMATION

AN 65149450 INPAFAMDB

| | | | |
|------------------|------------|------------------|------------|
| +-----PRAI-----+ | | +-----AI-----+ | |
| EP 2018-172083 | A 20180514 | CN 2019-10211238 | A 20190320 |
| | | EP 2018-172083 | A 20180514 |
| | | US 2019-16411351 | A 20190514 |

| | | | |
|------------------|------------|----------------|-------------|
| +-----AI-----+ | | +-----PI-----+ | |
| CN 2019-10211238 | A 20190320 | CN 110487304 | A 20191122 |
| | | CN 110487304 | B 20200414 |
| EP 2018-172083 | A 20180514 | EP 3569986 | A1 20191120 |
| | | EP 3569986 | B1 20200408 |
| US 2019-16411351 | A 20190514 | US 20190346249 | A1 20191114 |

1 priority, 3 applications, 5 publications (1 EPO simple family)
3 countries, 27 legal status events

DISPLAY MFAM.EP

AN 65149450 INPAFAMDB ED 20191121 EW 201947 UP 20200528 UW 202022
DN 97947441
TIDE POSITIONSERFASSUNGSVORRICHTUNG.
TL German
TIEN POSITION SENSING DEVICE.
TL English
TIFR DISPOSITIF DE DETECTION DE POSITION.
TL French
IN MUNDER, Gunnar; TEICHMANN, Peter
INS MUNDER GUNNAR, DE; TEICHMANN PETER, DE
PA Melexis Technologies NV
PAS MELEXIS TECHNOLOGIES NV, BE
DT Patent
PI EP 3569986 A1 20191120 English
DS R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK
MT NL NO PL PT RO RS SE SI SK SM TR
XS: BA ME
PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT
DAV 20191120 examined-printed-without-grant
STA PRE-GRANT PUBLICATION
XPD 20380514
AI EP 2018-172083 A 20180514 EPA Patent application
PRAI EP 2018-172083 A 20180514 EPA Patent application (Y,20191121)
IPCI G01D0005-20; G01D0001-16
CPC G01D0005-204; G01D0001-16; G01D0005-2013; G01B0007-003; G01D0005-2053
ABEN The present invention relates to a device for position sensing comprising sensing means arranged for producing at least two sensor signals (INO, IN1, IN2), and a signal construction unit (40) arranged for obtaining from said at least two sensor signals at least two time-synchronous signals, said signal construction unit comprising-selection means (21) for selecting in a serial way one of the at least two time-synchronous signals,- sampling means (15) for sampling the selected time-synchronous signal at given sampling instants,- storage means (34) for storing sampled data representing the selected time-synchronous signal and timing information indicating which of the given sampling instants were used to obtain the sampled data,- processing means (33) for determining at one of the given sampling instants a value for at least one of said time-synchronous signals that was not sampled at the one given sampling instant by performing an interpolation using data values of the at least one time synchronous signal stored in the storage means and obtained at another point in time than the one given sampling instant.
(EP3569986 A1).

AL English
AS National Office
FA ABEN; CPC; DAV; DS; DT; IN; INS; INO; IPCI; LA; LSDF; LSIC; LSPI; LSPMY; PA; PAS; PI; TIEN; TIFR; TIDE; XPD

AN 65149450 INPAFAMDB ED 20200409 EW 202015 UP 20200528 UW 202022
DN 97947441
TIDE POSITIONSERFASSUNGSVORRICHTUNG.
TL German
TIEN POSITION SENSING DEVICE.
TL English
TIFR DISPOSITIF DE DETECTION DE POSITION.
TL French
IN MUNDER, Gunnar; TEICHMANN, Peter
INS MUNDER GUNNAR, DE; TEICHMANN PETER, DE
PA Melexis Technologies NV
PAS MELEXIS TECHNOLOGIES NV, BE
DT Patent
PI EP 3569986 B1 20200408 English
DS R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU
LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
PIT EPB1 PATENT SPECIFICATION
DAV 20200408 printed-with-grant

INPAFAMDB

STA GRANTED
 XPD 20380514
 AI EP 2018-172083 A 20180514 EPA Patent application
 PRAI EP 2018-172083 A 20180514 EPA Patent application (Y,20191121)
 IPCI G01D0005-20; G01D0001-16
 CPC G01D0005-204; G01D0001-16; G01D0005-2013; G01B0007-003; G01D0005-2053
 FA CPC; DAV; DS; DT; IN; INS; INO; IPCI; LA; PA; PAS; PI; TIEN; TIFR; TIDE; XPD

LEGAL STATUS

AN 65149450 INPAFAMDB
 20191120 EPAX + REQUEST FOR EXTENSION OF THE EUROPEAN PATENT
 BA ME
 MIS Miscellaneous or Ambiguous
20191128
 20191120 EPAK + DESIGNATED CONTRACTING STATES
 EP A1
 AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT
 LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
 MIS Miscellaneous or Ambiguous
20191128
 20191120 EP17P + REQUEST FOR EXAMINATION FILED
 20181030
 EXA Examination, Search Report
20191128
 20200115 EPRIC1 INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT
 G01D0001/16
 CLA Change, Removal or Addition of Classifications
20200123
 20200115 EPRIC1 INFORMATION PROVIDED ON IPC CODE ASSIGNED BEFORE GRANT
 G01D0005/20
 CLA Change, Removal or Addition of Classifications
20200123
 20200205 EPINTG + INTENTION TO GRANT ANNOUNCED
 20200110
 EXA Examination, Search Report
20200213
 20200408 EPAK + DESIGNATED CONTRACTING STATES
 EP B1
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 LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
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20200416
 20200415 EPREG
 ATREF + AT: REFERENCE TO AT NUMBER (EP PATENT ENTERS AUSTRIAN NATIONAL
 PHASE)
 AT 1254997 T
 20200415
 ENP Entry into National Phase
20200423
 20200415 EPREG
 CHEP + CH: EUROPEAN PATENT TAKES EFFECT AS A NATIONAL PATENT IN CH/LI
 ENP Entry into National Phase
20200423
 20200430 EPREG
 DER096 + DE: DPMA PUBLICATION OF MENTIONED EP PATENT GRANT
 DE 602018003535
 PUB New or Withdrawn Publication
20200507
 20200513 EPREG
 IEFG4D + IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
 ENP Entry into National Phase
20200611
 20200731 EPPGFP + ANNUAL FEE PAID TO NATIONAL OFFICE [ANNOUNCED FROM NATIONAL OFFICE
 TO EPO]
 FR: 20200528
 PAYMENT YEAR: 3
 FEE Fee Payment

.....20200827

1 priority, 3 applications, 5 publications (1 EPO simple family)
3 countries, 27 legal status events

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