

STN[®]

INPAFAMDB –
Easy Recipes for Relevant Results
FIZ Karlsruhe

Agenda

- What is INPAFAMDB?
- Finding patent families
- Inventor and patent assignee searching
- Prior art searching
- Citation searching
- Legal status searching
- Alerts
- Frequently Asked Questions



INPAFAMDB is the International Patent Family Database on STN®

- More than 70 million documents / 38 million patent families
- Bibliographic and patent family information for more than 90 authorities from the mid-1800's
- 26 million abstracts for more than 50 authorities
- Cited references from 23 authorities
- Patent classification codes
 - Including: IPC, ECLA, ICO, NCL and IDT
- Legal status for 58 patent authorities from 1978

Key features & benefits of INPAFAMDB

- One-record-per-family file design maximizes multifile prior art search synergy with CAplusSM and DWPISM
- FIZ Karlsruhe editorial corrections and Quality Control provide accurate and comprehensive patent families
- ECLA hierarchy/definition PDFs and IPC thesaurus reference tools assist in effective prior art searching
- FIZ Karlsruhe editorial assigned Legal Status Categories (LSC2) greatly simplify global legal status searching
- Streamlined family and legal status SDI/Alert options provide only what you need via extensive and readily customizable update and display options

Why is INPAFAMDB useful?

=> FILE INPAFAMDB

=> S (LASER OR RAPID) AND PROTOTYPING

L1 482 (LASER OR RAPID) AND PROTOTYPING

=> D BRIEF

L1 ANSWER 2 OF 482 INPAFAMDB COPYRIGHT 2009 EPO/FIZ KA on STN
AN 11636111 INPAFAMDB UPFB 20070405 UWF 200714
TI GREIFVORRICHTUNG UND SCHNELLES HERSTELLUNGSVERFAHREN EINES PROTOTYPES
DURCH SINTERN.
- GRIPPING DEVICE AND FAST **PROTOTYPING** METHOD FOR MANUFACTURING SUCH A
GRIPPING DEVICE BY SINTERING.
- DISPOSITIF DE PREHENSION ET SON PROCEDE DE FABRICATION PAR FRITTAGE
SELON UNE TECHNIQUE DE PROTOTYPAGE RAPIDE.
- Component gripper and manipulator has frame with at least one element
of **laser**-fritted material.
- DISPOSITIF DE PREHENSION D'UNE PIECE, ET PROCEDE POUR SA FABRICATION.
- DEVICE FOR GRIPPING A PART, AND METHOD FOR MAKING SAME.
INS MOULE DOMINIQUE, FR; BERTHELLEMY LAURENT, FR; DI MINO FRANCESCO, FR
- MOULE DOMINIQUE; DI MINO FRANCESCO; BERTHELLEMY LAURENT
PAS BEMA INGENIERIE, FR
- MOULE DOMINIQUE, FR; BERTHELLEMY LAURENT, FR; DI MINO FRANCESCO, FR
IPCR B25J0015-00 [I,A]; B25J0015-00 [I,C*]
EPC B25J0015-00 . . .

This record would not have been found by the same simple text search in INPADOCDB.

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Finding patent families

1. Enter INPAFAMDB

=> FILE INPAFAMDB

2. Search for the
publication number

=> S US6300425/PN

3. Display the answer*

=> D BIB

1. Enter WPINDEX

=> FILE WPINDEX

2. Search for the
publication number

=> FSEARCH US6300425/PN

Display the answer(s)

=> D BIB 1-

Note: The country coverage differs by database. For details, see

http://www.stn-international.com/fileadmin/be_user/STN/pdf/search_materials/patents/pkcodes_compl.pdf.

* see slide 10 for more family display formats.

Patent family for DE2350035 - INPAFAMDB

=> D BIB

```
L1 ANSWER 1 OF 1          INPAFAMDB COPYRIGHT 2010 EPO/FIZ KA on STN
AN  3559037 INPAFAMDB UPFB 20090402 UWF 200914
DN  10369334
TI  VERFAHREN ZUR HERSTELLUNG VON DIATETISCHEN NAHRUNGSMITTELN.
    - DIETETIC FOOD COMPOSITIONS. . . .
INS  RENNHARD HANS HEINRICH, US
    - HEINRICH RENNHARD HANS, US . . .
PAS  PFIZER, US
    - PFIZER
PI  AT 7308560          A 19750615
    AT 328618          B 19760325
    AU 7360833          A 19750410
    AU 477557          B2 19750410
    DE 2350035          A1 19750410
    DE 2350035          C2 19860710
    FI 7303094          A 19750405
    IE 38284            L 19750325
    IE 38284            B1 19780201
    IN 138477          A1 19760207
    IT 1011013          B 19770120
    NO 7303761          A 19750421
    PH 10970            A 19771018
    ZA 7307862          A 19740925
```

=> FILE INPAFAMDB

=> S DE2350035/PN

L1 1 DE2350035/PN

Publications in red are uniquely included in the INPAFAMDB family.

Note: This is truncated at the end of the PI field.

Patent family for DE 2350035 - WPINDEX

```
L2 ANSWER 1 OF 1 WPINDEX COPYRIGHT 2008 => FILE WPINDEX
AN 1975-26107W [16] WPINDEX => FSEARCH DE2350035/PN
TI Dietetic foods containing water-solubl L1 1 DE2350035/PN
   containing ester gps. and replacing fa
   carbohydrates
DC D13
PA (PFIZ-C) PFIZER INC
CYC 12
PI DE 2350035 A 19750410 (197516)* DE
   NL 7313850 A 19750411 (197517)# NL
   SE 7312995 A 19750421 (197520)# SV
   NO 7303761 A 19750421 (197521)# NO
   AT 7308560 A 19750615 (197527) DE
   FI 7303094 A 19750602 (197528)# FI
   FR 2246276 A 19750606 (197528) FR
   JP 50064444 A 19750531 (197530)# JA
   GB 1418544 A 19751224 (197552) EN
   IL 43334 A 19760730 (197634)# EN
   CH 583000 A 19761230 (197702)# DE
   CA 1016006 A 19770823 (197736)# EN
   JP 58036945 B 19830812 (198336)# JA
   DE 2350035 C 19860710 (198628) DE
   NL 181898 B 19870701 (198730)# NL
```

"#" indicates non-conventional equivalents.

Language indicators.

Learn more about patent families at: "Understanding Patent Families on STN"
http://www.stn-international.com/stn_presentations.html

Use this format	To display...
CFAM	A simple table of publication numbers only
FAM	A table of priority, application and publication numbers (connected by <i>application</i> number)
FAM2	A table of priority, application and publication numbers (connected by <i>publication</i> number)
FFAM	Full bibliographic detail and legal status
LFAM	Short version of FFAM with publication numbers and Legal Status ONLY
FFAM. <i>PC</i>	FFAM for a single publication authority, e.g. FFAM.US for the USPTO
MFAM	FFAM plus 1) all available author abstracts 2) cited references
IFAM	A COMBINATION of indented FAM and MFAM

FIZ Karlsruhe editorial corrections provide more accurate INPADOC patent families

- Accurate patent families rely on accurate publication, application and priority numbers
- Quality control and correction process
 - all numbers which do not meet the standardized number formats are filtered out and corrected manually
 - serial corrections are processed automatically
 - app. 2.200 standards are maintained for quality checks
- Errors reported by users are corrected intellectually
- Error corrections are typically online one week after the error has been detected

Example: An error in an original document

Example: There is an incorrect related application number in this document.

(19) **United States**
 (12) **Patent Application Publication** (10) **Pub. No.: US 2008/0021851 A1**
Alcalde et al. (43) **Pub. Date: Jan. 24, 2008**

(54) **MUSIC INTELLIGENCE UNIVERSE SERVER**

(75) Inventors: **Vicenc Gaitan Alcalde**, Castella dol Valles (ES); **Julien Ricard**, Barcelona (ES); **Antonio Trias Bonet**, Sant Cugat Del Valles (ES); **Antonio Trias Llopis**, Sant Cugat Del Valles (ES); **Jesus Sanz Marcos**, Barcelona (ES)

Correspondence Address:
Jeffrey C. Maynard, Esq.
WHITEFORD TAYLOR & PRESTON, LLP
Seven St. Paul Street
Baltimore, MD 21201-1626 (US)

(73) Assignee: **Music Intelligence Solutions**, Cerdanyola (Barcelona) (ES)

(21) Appl. No.: **11/825,457**

(22) Filed: **Jul. 6, 2007**

Related U.S. Application Data

(63) Continuation-in-part of application No. 11/492,395, filed on Jul. 25, 2006, now abandoned, which is a

Incorrect

Correct

continuation-in-part of application No. 10/678,505, filed on Oct. 3, 2003, now Pat. No. 7,081,579.

(60) Provisional application No. 60/415,868, filed on Oct.

(19) **United States**
 (12) **Patent Application Publication** (10) **Pub. No.: US 2006/0254411 A1**
Alcalde et al. (43) **Pub. Date: Nov. 16, 2006**

(54) **METHOD AND SYSTEM FOR MUSIC RECOMMENDATION**

(75) Inventors: **Vicenc Gaitan Alcalde**, Castella del Valles (ES); **Carlos Maria Lopez Ullod**, Zaragoza (ES); **Antonio Trias Bonet**, Sant Cugat del Valles (ES); **Antonio Trias Llopis**, Sant Cugat del Valles (ES); **Jesus Sanz Marcos**, Barcelona (ES); **Daniel Caldentey Ysern**, Barcelona (ES); **Dominic Arkwright**, Barcelona (ES)

Correspondence Address:
WHITEFORD, TAYLOR & PRESTON, LLP
ATTN: GREGORY M STONE
SEVEN SAINT PAUL STREET
BALTIMORE, MD 21202-1626 (US)

(73) Assignee: **Polyphonic Human Media Interface, S.L.**, Cerdanyola (Barcelona) (ES)

(21) Appl. No.: **11/492,355**

(22) Filed: **Jul. 25, 2006**

Related U.S. Application Data

(63) Continuation of application No. 10/678,505, filed on Oct. 3, 2003, now Pat. No. 7,081,579.

(60) Provisional application No. 60/415,868, filed on Oct. 3, 2002.

Publication Classification

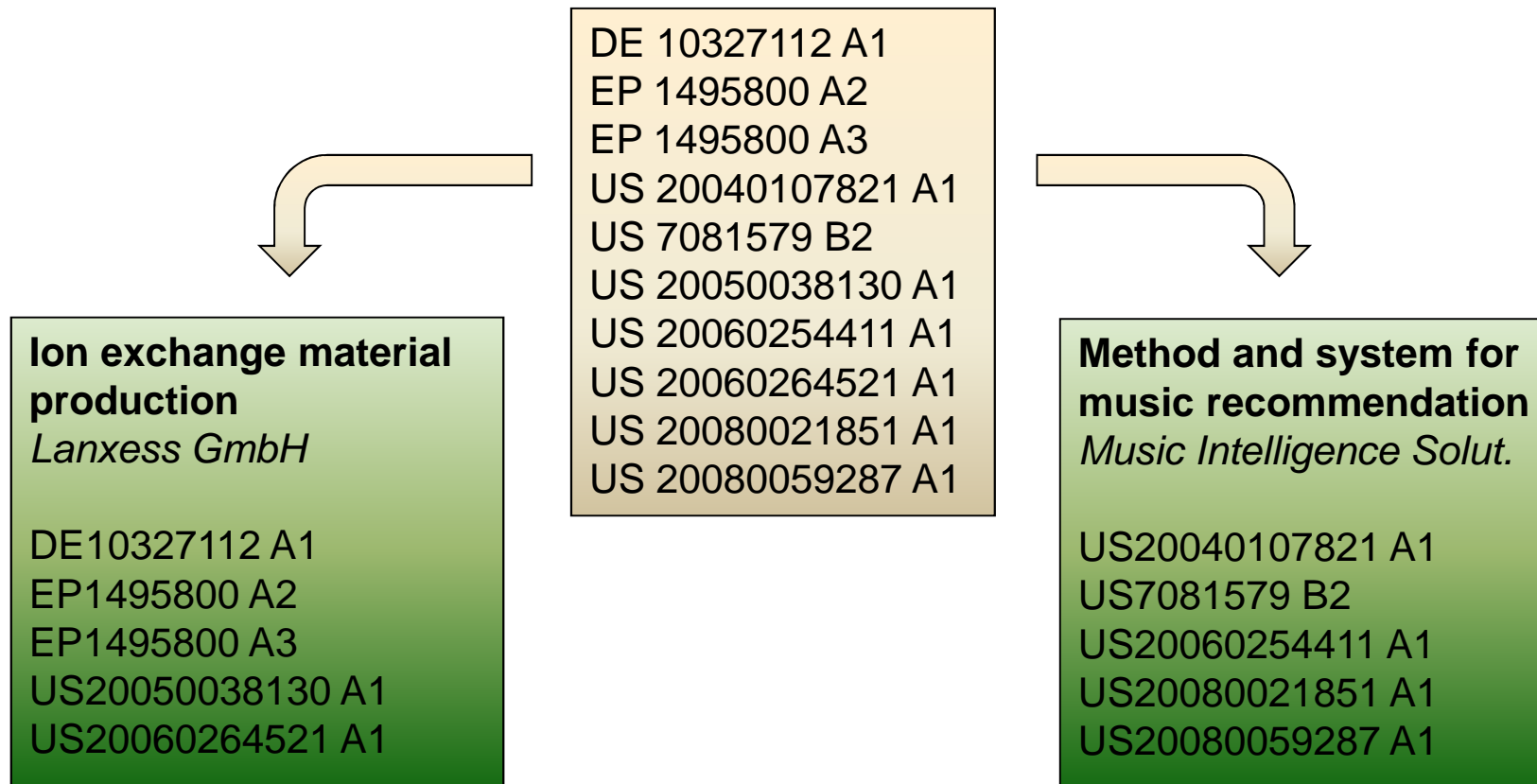
(51) **Int. Cl.**
G10H 7/10 (2006.01)
G10H 7/00 (2006.01)

(52) **U.S. Cl.** **84/608**

(57) **ABSTRACT**

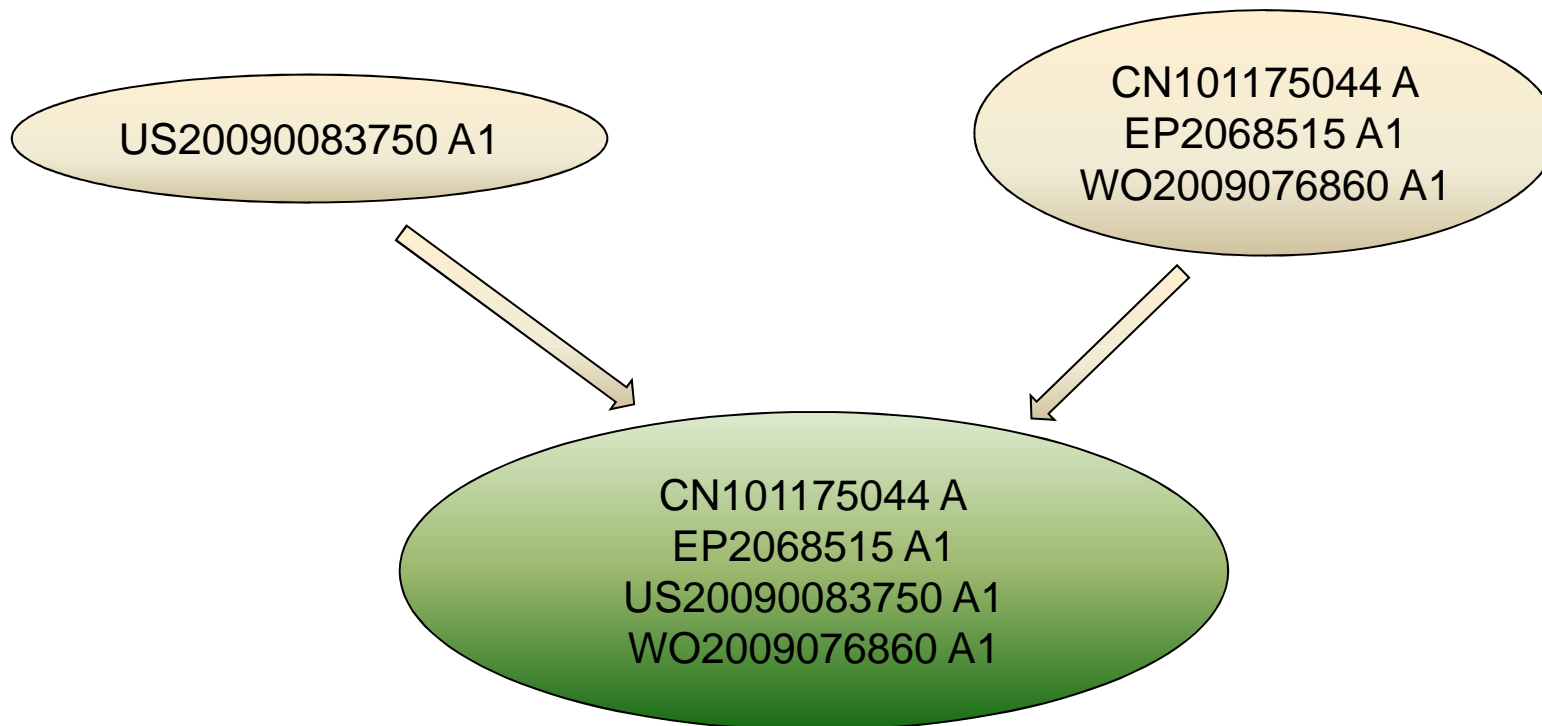
An artificial intelligence song/music recommendation system and method is provided that allows music shoppers to discover new music. The system and method accomplish these tasks by analyzing a database of music in order to identify key similarities between different pieces of music, and then recommends pieces of music to a user depending upon their music preferences. An embodiment enables a user to evaluate a new song's similarity to songs already established as commercially valuable.

False patent families are separated due to FIZ Karlsruhe priority number corrections



Correction of US-priority number of US20080021851:
US2006-492395 => US2006-492355

Separate patent families are merged due to FIZ Karlsruhe priority number corrections



Correction of Chinese priority number of US20090083750:
CN2007-~~1~~1017879 => CN2007-1017879~~6~~

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Inventor and assignee searching

- Bibliographic fields
 - Inventors (**IN**), standardized (**INS**)
 - Patent assignees (**PA**), standardized (**PAS**)
- Legal Status fields
 - Patent Assignee (**LSPA**), Opponent (**LSOP**)
 - Inventor (**LSIN**)
 - Free Text (**LSFT**) (unfielded names)
 - **LSBI**: LSIN, LSPA, LSOP + LSFT
- Super Search fields
 - Inventors: **INSS** includes /IN, /INS and /LSIN
 - Assignees: **PASS** includes /PA, /PAS and /LSPA

Use the Super Search fields

=> **FIL INPAFAMDB**

=> **S (SCHNEIDER(S)WOLFGANG) / INSS , PASS**

```
25384 SCHNEIDER/IN
25323 SCHNEIDER/INS
   755 SCHNEIDER/LSIN
25472 SCHNEIDER/INSS
      (SCHNEIDER/IN,INS,LSIN)
18247 SCHNEIDER/PA
17544 SCHNEIDER/PAS
   2267 SCHNEIDER/LSPA
19928 SCHNEIDER/PASS
      (SCHNEIDER/PA,PAS,LSPA)
101070 WOLFGANG/IN
100291 WOLFGANG/INS
   3892 WOLFGANG/LSIN
101386 WOLFGANG/INSS
      (WOLFGANG/IN,INS,LSIN)
34445 WOLFGANG/PA
31528 WOLFGANG/PAS
   1236 WOLFGANG/LSPA
36290 WOLFGANG/PASS
      (WOLFGANG/PA,PAS,LSPA)
L1      539 (WOLFGANG(S)SCHNEIDER) / INSS , PASS
```

TIP: Inventors may be listed as inventors or assignees.

Using a broader **(S)** search finds additional answers with middle names and/or initials.

Display an answer

=> D IN INS PA PAS HIT 1-

```
L1 ANSWER ... OF 539 INPAFAMDB COPYRIGHT 2010 EPO/FIZ KA on STN
IN UDERSTADT,KURT
INS UDERSTADT KURT, DE
PA UDERSTADT,KURT
PAS UDERSTADT KURT
```

LEGAL STATUS HIT displays only the relevant part of the LS information.

```
LEGAL STATUS HIT
AN 14543002 INPAFAMDB
19820909 DE8127 NEW PERSON/NAME/ADDRESS OF THE APPLICANT
[DE 1980-3011076 A 19800320]
UDERSTADT, WOLFGANG SCHNEIDER, GEB. STERNBERG, GER
CHG Change of Owner, Inventor, Applicant
```

1 priority, 1 application, 1 publication

Patent assignee search: Qiagen

=> FILE INPAFAMDB

=> S QIAGEN/PA,PAS

L1 269 QIAGEN/PA,PAS

=> D BRIEF 1-269

For a standard INPAFAMDB assignee search use both **PA** and **PAS**.

Use the **BRIEF**-format to display the inventions of Qiagen.

AN 39560094 INPAFAMDB EDF 20100701 EWF 201026 UPFB 20100812 UWF 201032

TI Praeparation und Amplifikation von Nukleinsaeuren mittels

- PREPARATION AND AMPLIFICATION OF NUCLEIC ACIDS BY MEANS OF MAGNETIC PARTICLES.

INS HIMMELREICH RALF, DE; ROTHMANN THOMAS, DE; FABIS ROLAND, DE....

PAS QIAGEN GMBH, DE

- HIMMELREICH RALF, DE; ROTHMANN THOMAS, DE; FABIS ROLAND, DE; ERBACHER CHRISTOPH, DE

IPCI C12Q0001-68 [I,A]; C12M0001-38 [I,A]; C12N0015-10 [I,A

AB (WO 2010072822 A2)

The invention relates to the preparation of a biological sample for performing verifications and examinations, wherein the aim of the invention is the creation of a method for preparing a biological....

PATENT FAMILY INFORMATION INPAFAMDB

+----- Publications -----+

DE 102008055120 A1 20100701

WO 2010072822 A2 20100701

.....

+----- Applications -----+

DE 2008-102008055120 A 20081223

WO 2009-EP67882 W 20091223

Patent assignee search: Qiagen

```
=> S QIAGEN/LSPA
L2      232 QIAGEN/LSPA
```

The legal status field **LSPA** retrieves 68 additional patent family records (L3).

```
=> D L2 NOT L1
L3      68 L2 NOT L1
```

Use **BRIEF HIT** to display additional inventions of Qiagen.

```
=> D BRIEF HIT
```

```
AN      36842278 INPAFAMDB EDF 20080612 EWF 200824 UPFB 20100514
TI      Neuer Tumormarkierer.
        - Novel tumor marker.
PAS     ADNAGEN AG, DE
```

LSPA applicant reassignment field includes:

- corrections or new company names
- transfer of ownership

```
.....
PATENT FAMILY INFORMATION INPAFAMDB
```

+----- Publications -----+		+----- Applications -----+	
EP 1930345	A1 20080611	EP 2006-25220	A 20061206
US 20080305480	A1 20081211	US 2007	

These additional Qiagen records are important for statistical analysis and due diligence studies.

```
LEGAL STATUS HIT ←
AN      36842278 INPAFAMDB UPFL 20100603
20100317 EPRAP1      TRANSFER OF RIGHTS OF AN
                    [EP 2006-25220      A 20061206]
                    QIAGEN GMBH
```

CHG Change of Owner, Inventor, Applicant

201011.....20100319

Additional tips for name searches

- Allow for misspellings due to typos or transliteration
- Inventor names may be: *Surname, Initial(s)*
(no full first name given)
- Non alpha-numeric characters are replaced with an (S) operator by STN
 - Use quotation marks to retain special characters
=> S “FISCHER & PORTER”/PA
 - Use truncation to retrieve names in which the query phrase is embedded
=> S “FISCHER & PORTER”?/PA

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Prior art searching

- Applicant abstracts for half of the file (/BI, /AB)
 - Over 19.1 million records have applicant abstracts
 - 26 million abstracts from more than 50 patent authorities
- Original titles for 78% of the entire file (/BI, /TI)
 - Over 29 million records have applicant titles
- Classifications
 - IPCs available for over 32 million records (/IPC)
 - ECLA available for over 14 million records (/EPC)
- Patent citations in about 8 million patent families

Find terms in other languages using titles

=> S WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR SYSTEM OR GENERAT? OR INSTALL?)

Broad text search.

L1 11393 WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR SYSTEM OR GENERAT? OR INSTALL?)

Limit to EP to retrieve equivalent titles in other languages.

=> S L1 AND EP/PC

L2 1926 L1 AND EP/PC

=> FOCUS L2

L3 1926 FOCUS L3 1-

FOCUS sorts the records by relevance.

=> D TI 1-10

L3 ANSWER .. OF 1926 INPAFAMDB COPYRIGHT 2010 EPO/FIZ KA on STN

TI - SCHALLREDUZIERUNG EINES ROTORBLATTES FUER EINE WINDTURBINE.

- Reduction in the noise produced by a rotor blade of a wind turbine.

- DIMINUTION DU BRUIT PRODUIT PAR UNE PALE DE ROTOR DESTINEE AUNE TURBINE EOLIENNE.

- Rotorblatt fuer eine Windenergieanlage...

L3 ANSWER .. OF 1362 INPAFAMDB COPYRIGHT 2009 EPO/FIZ KA on STN

TI Method for the erection of a wind energy plant and wind energy plant.

- PROCEDE D'INSTALLATION D'UN DISPOSITIF EOLIEN ET DISPOSITIF EOLIEN.

...

OPTION: Review the abstracts for additional terms also (D TI ABS - free).

Identify relevant IPCs

```
=> S WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR
SYSTEM OR GENERAT? OR INSTALL?)
```

Broad text search.

```
L1      11393 WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENER
SYSTEM OR GENERAT? OR INSTALL?)
```

```
=> ANALYZE L1 1- IPC EPC
```

```
L4      ANALYZE L1 1- IPC EPC :      5571 TERMS
```

The top IPCs are all in the same subclass, F03D.

```
=> D TOP 10 IPC
```

```
L4      ANALYZE L1 1- IPC EPC :      5571 TERMS
```

TERM #	# OCC	# DOC	% DOC	IPC EPC
1	13337	2466	32.40	F03D0011-00
2	11483	2408	31.64	F03D0009-00
3	7926	1901	24.98	F03D0001-00
4	6925	1837	24.14	F03D0007-00
5	4535	1649	21.67	F03D0003-00
6	4276	984	12.93	F03D0001-06
7	4002	741	9.74	F03D0007-02
8	3994	1123	14.76	F03D0011-04
9	3920	843	11.08	F03D0007-04
10	2862	471	6.19	H02P0009-00

TIP: SET ICFORMAT ON PERM
to ensure that pre-reform IPC codes are the same length as modern IPC Reform codes, providing consistent analysis throughout the backfile.

Review IPC descriptions using the online IPC thesaurus

=> E F03D+NT/IPC

TIP: Type **HELP RCODES** to review all of the thesaurus relationship codes.

E1	26859	-->	F03D/IPC WIND MOTORS
E2	6267	NT1	F03D0001-00/IPC Wind motors with rotation axis substantially in wind direction (controlling F03D0007-00) CORE VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E3	918	NT2	F03D0001-02/IPC . having a plurality of rotors ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
			F03D0001-04/IPC ing stationary wind-guiding means, e.g. shrouds or channels (F03D0001-02 takes precedence) ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E5	2942	NT2	F03D0001-06/IPC . Rotors ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)

Narrower and broader terms are clearly indicated.

Identify relevant ECLAs (/EPC)

=> S WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR SYSTEM OR GENERAT? OR INSTALL?)

L1 11393 WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR SYSTEM OR GENERAT? OR INSTALL?)

=> ANALYZE L1 IPC EPC

L4 ANALYZE L1 1- IPC EPC : 5571

=> D TOP 10 EPC

L4 ANALYZE L1 1- IPC EPC : 5571 TERMS

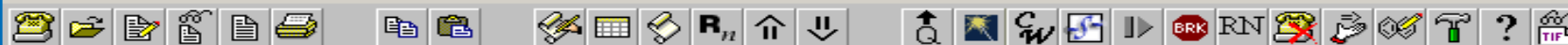
TIP: Simultaneously analyze on all relevant fields to incur only one **ANALYZE** charge.

TERM #	# OCC	# DOC	% DOC	IPC EPC
11	2478	422	5.55	F03D0011-00
13	1705	468	6.15	F03D0011-04
16	1589	277	3.64	F03D0007-02D
21	1111	188	2.47	F03D0007-04
23	998	194	2.55	F03D0001-00B
24	978	212	2.79	F03D0001-06B
25	961	196	2.58	F03D0009-00C
26	909	166	2.18	F03D0001-06C
30	772	169	2.22	F03D0011-02
32	721	113	1.48	F03D0009-00C2

The top 10 ECLAs are also in subclass F03D, but is the definition the same?

STN Online and Results

File Edit Online Query Results Preferences! Web Window Help



Telnet_TDI

NEWS 36 May 26 STN Express, Version 8.4, now available

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS 8.4, AND
CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

NEWS HOURS Dec 17, 2008 NEW STN OPERATING HOURS

NEWS PRICE Jan 07, 2009 STN International Fees and Prices,
Effective Jan 1, 2009

* * * * * STN Karlsruhe * * * * *
FILE 'HOME' ENTERED AT 14:11:52 ON 27 MAY 2009

=> FIL INPAFAMDB

FILE 'INPAFAMDB' ENTERED AT 14:11:57 ON 27 MAY 2009
COPYRIGHT (C) 2009 European Patent Office / FIZ Karlsruhe

FILE LAST UPDATED: 22 MAY 2009 <20090522/UP>
22 MAY 2009 <20090522/UPLS>
MOST RECENT DOCDB WEEK: 200921 <200921/EW>
FILE COVERS 1836 TO DATE.

Links to the current month's version of ECLA (/EPC) are available in the file entry banner.

Updated PDF files in the following links:

http://www.stn-international.com/IdT_EPO.html

http://www.stn-international.com/ico_0905.html

http://www.stn-international.com/epc_0905.html

Supplement of all changed ECLA items:

http://www.stn-international.com/ecla_0905s.html

>>> A learning file LINPAFAMDB is available ! <<<

>>> FOR MORE INFORMATION AND FURTHER NEWS ABOUT INPAFAMDB SEE:

<http://www.stn-international.com/inpafamdb.html>

<<<

>>> New display format of the basic (earliest) publication of a patent family <<



>>> For a copy of the INPADOCDB/INPAFAMDB handbook see:

http://www.stn-international.com/inpadocdb_inpafamdb_handbook.html <<<

epc_0905.pdf - Adobe Reader

File Edit View Document Tools Window Help

1 / 8662 69,1% Find



European Patent Classification

Version 2009/05"
(based on the monthly ECLA XML raw data of the European Patent Office)

EPC

- A HUMAN NECESSITIES
- B PERFORMING OPERATIONS; TRANSPORTING
- C CHEMISTRY; METALLURGY
- D TEXTILES; PAPER
- E FIXED CONSTRUCTIONS
- F MECHANICAL ENGINEERING; LIGHTING; HEATING;
WEAPONS; BLASTING ENGINES OR PUMPS
- G PHYSICS
- H ELECTRICITY

The classification codes are standardized analog the IPC8 format:

A61K6/00B2 ==> A61K0006-00B2

Learn more about the ECLA at: "The Art of ECLA" <http://www.stn-international.com/patents.html>



Search for terms or symbols

F03D

WIND MOTORS

F03D

NT5-TI WIND MOTORS

Note

Note In this subclass, the following words are used with the meanings indicated:

- "Wind motor" means a mechanism for converting the energy of natural wind into useful mechanical power, and the transmission of such power to its point of use;
- "Rotor" means the wind-engaging parts of the wind motor and the rotary member carrying them;
- "Rotations axis" means the axis of rotation of the rotor.

F03D0001-00

NT6

F03D0001-00

NT7 Wind motors with rotation axis substantially in wind direction (controlling F03D0007-00)

F03D0001-00B

NT8 [N: Assembly (fixing wind-engaging parts to rotor F03D0001-06C2); Foundation or erecting methods; Equipment therefor] [N0211]

F03D0001-00C

NT8 [N: Maintenance or repair; Equipment therefor] [N0211]

F03D0001-02

NT8 having a plurality of rotors

F03D0001-02B

NT9 [N: coaxially arranged]

F03D0001-04

NT8 having stationary wind-guiding means, e.g. with shrouds or channels (F03D0001-02 takes precedence)

F03D0001-06

NT8 Rotors

F03D0001-06B

NT9 [N: Form]

Surely IPC is enough?

=> S F03D/IPC,EPC

L1 27500 F03D/IPC,EPC

=> S F03D/EPC NOT F03D/IPC

L2 420 F03D/EPC NOT F03D/IPC

Maybe not...

=> D CFAM TI AB IPC EPC

PATENT FAMILY INFORMATION

AN 38640561 INPAFAMDB

+-----PI-----+
US 20090289148 A1 20091126
WO 2009142762 A1 20091126

Definitely not... and notice there isn't even an EP member!

TI Faired tether for wind power generation systems.

- CABLE D'ATTACHE CARENE POUR SYSTEMES DE PRODUCTION D'ENERGIE EOLIENNE

AB A tether for a kite wind power system is disclosed. The tether has a cross-section that is designed to have less aerodynamic drag than a tether with a circular-shaped cross-section.

IPCI B64C0031-06 [I,A]; A63H0027-08 [I,A]; B64C0031-00 [I,C*];
A63H0027-00 [I,C*]

EPC **F03D0005-00**; B63H0009-06E; B63H0009-08; D07B0005-00C

Title, abstract, and classification searching for wind turbine publications before 1970

```
=> S F03D/IPC,EPC
L1      27281 F03D/IPC,EPC
```

This search retrieves all IPCs and EPCs in the F03D subclass.

```
=> S WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR
SYSTEM OR GENERAT? OR INSTALL?)
L2      11393 WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT# OR
SYSTEM OR GENERAT? OR INSTALL?)
```

```
=> S ?WINDENERGIEANLAG? OR ?WINDTURBIN? OR (EOLIEN? OR
VENT#)(2A)TURBIN?
L3      2282 ?WINDENERGIEANLAG? OR ?WINDTU
VENT#)(2A)TURBIN?
```

Use multiple languages for more comprehensive retrieval.

```
=> S (L1 OR L2 OR L3) AND PY<1970
L4      2130 (L1 OR L2 OR L3) AND PY<1970
```

Limit search result to publication year < 1970.

```
=> FOCUS L4
PROCESSING COMPLETED FOR L4
L5      2130 FOCUS L4 1-
```

Display titles and abstracts free of charge for a fast relevance check.

```
=> D TI ABS 1-10
```

```
L5      ANSWER 1 OF 2130      INPAFAMDB COPYRIGHT 2010 EPO/FIZ KA on STN
TI      Improvements in wind power plants.
```

Title, abstract, and classification searching for wind turbine publications before 1970 (cont.)

=> D BRIEF

Display relevant answers in display format BRIEF.

L5 ANSWER 2 OF 2130 INPAFAMDB COPYRIGHT 2009 EPO/FIZ KA on STN
AN 7872335 INPAFAMDB
TI Improvements in **wind-power plant** with a centrifugal governor.
INS HUTTER ULRICH
PAS ALLGAIER WERKZEUGBAU G M B H
IPCR **F03D0007-02** [I,A]; **F03D0007-00**
EPC **F03D0007-02D**
AB (GB 722978 A)
722,978. Wind-motors. ALLGAIER WERKZEUGBAU G M B H. Dec. 31, 1952, Number 30631/52. Class 110 (3). A **wind-power plant** comprises an electric generator n driven by a vane wheel through suitable speed-raising transmission gearing f, g, h, i, k interposed there between . . .

Reformed IPC backfile reclassification data allow for improved retrieval of older patent publications.

PATENT FAMILY INFORMATION INPAFAMDB

PUBLICATIONS		APPLICATIONS	
GB 722978	A 19550202	GB 1952-30631	A 19521203
PRIORITIES			
GB 1952-30631	A 19521203		

1 priority, 1 application, 1 publication

Adding INPAFAMDB to a multfile prior art text search with DWPI is quite simple

```
=> FILE WPINDEX
```

```
=> SET SFIELDS BI BIEX
```

```
SET COMMAND COMPLETED
```

SET SFIELDS BI BIEX to add the DWPI basic index extension BIEX - original title, abstract and main (1st) claim - to the default search index.

```
=> S (LIGHT EMITTING DIODE# OR LED#) AND (HEAD(W)(LIGHT# OR LAMP#) OR HEADLIGHT# OR HEADLAMP#)
```

```
L1      2678 (LIGHT EMITTING DIODE#/BI,BIEX OR LED#/BI,BIEX) AND (HEAD/B I,BIEX(W)(LIGHT#/BI,BIEX OR LAMP#/BI,BIEX) OR HEADLIGHT#/BI ,BIEX OR HEADLAMP#/BI,BIEX)
```

```
=> D TRIAL KWIC
```

use TRIAL KWIC for a fast relevance check in WPINDEX.

```
L1      ANSWER 2 of 2678 WPINDEX COPYRIGHT 2010 THOMSON REUTERS OR BIN
```

```
.....
```

```
TI      Headlamp for vehicle, has reflector comprising parabolic type reflective surfaces for reflecting light beams irradiated from LED, such that light beams reflected from reflective surfaces are inclined at predefined angles
```

```
NOV     NOVELTY - The headlamp (10) has reflector (2a) comprising parabolic type reflective surfaces (2a1-2a4) for reflecting light beam irradiated from a LED (1a). The light beam (L2a1) ref
```

use the FULLG-format to display relevant answers in WPINDEX

```
=> D FULLG 2 5 10 15 20
```

Adding INPAFAMDB to a multfile prior art text search with DWPI is quite simple (cont.)

=> FILE INPAFAMDB

=> TRANSFER L1 PN APPS

L2 TRANSFER L1 1- PN APPS:
L3 2617 L2

Use TRANSFER PN APPS from DWPI (L1) to retrieve the corresponding INPAFAMDB family records (L3).

=> S (LIGHT EMITTING DIODE# OR LED#) AND (HEAD(W)(LIGHT# OR LAMP#) OR HEADLIGHT# OR HEADLAMP#)

L4 995 (LIGHT EMITTING DIODE# OR LED#) AND (HEAD(W)(LIGHT# OR LAMP#) OR HEADLIGHT# OR HEADLAMP#)

=> S L4 NOT L3

L5 228 L4 NOT L3

Isolate and review the 228 uniquely retrieved INPAFAMDB families (L5).

=> D TI ABS 1-228

L5 228 ANSWERS INPAFAMDB COPYRIGHT 2009 EPO/FIZ KA on STN

TI Light emitting diode lamp cap structure.

AB The utility model relates to a light emitting diode lamp cap structure, which comprises a metal outer tube, a radiating rod, a light emitting diode module, a convex lens, a front cover and a metal rear cover, wherein a plurality of radiating grooves and a plurality of

. . . .

Example of a unique INPAFAMDB patent family record using file default BRIEF format

=> D BRIEF 4

AN 38712071 INPAFAMDB EDF 20091224 EWF 200952 UPFB 20100312 UWF 201010

TI **Light emitting diode** lamp cap structure.

INS WENJIN JIAN, CN

PAS WENJIN JIAN, CN

IPCI F21S0002-00 [I,A]; F21V0005-04 [I,A]; F21V0015-02 [I,A];

F21V0019-00 [I,A]; F21V0029-00 [I,A]; F21Y0101-02 [N,A];

F21S0002-00 [I,C*]; F21V0005-00 [I,C*]; F21V0015-00 [I,C*];

F21V0019-00 [I,C*]; F21V0029-00 [I,C*]

AB (CN 201354960U Y)

The utility model relates to a **light emitting diode** lamp cap structure, which comprises a metal outer tube, a radiating rod, a light emitting diode module, a convex lens, a front cover and a metal rear cover, wherein a plurality of radiating grooves and a plurality of assembling

.....

module and the radiating rod are sealed inside the metal outer tube.

The light emitting diode lamp cap structure is widely applied to lamps for indoor and outdoor illumination such as desk lamps, recessed lamps, clip lamps, landscape lamps and lamps for auxiliary illumination such as bicycle **head lamps** and warning lamps.

PATENT FAMILY INFORMATION INPAFAMDB

+----- Publications -----+

CN 201354960U Y 20091202

+----- Priorities -----+

CN 2009-20001726U U 20090121

1 priority, 1 application, 1 publication

+----- Applications -----+

CN 2009-20001726U U 20090121

Agenda

- What is INPAFAMDB?
- Finding patent families
- Inventor and patent assignee searching
- Prior art searching
- **Citation searching**
- Legal status searching
- Alerts
- Frequently Asked Questions

INPAFAMDB patent citations

- Cited references from **23** patent authorities including both patent and non-patent literature citations
 - AP, AU, BE, BG, CH, CY, CZ, DE, DK, EA, EP, ES, FI, FR, GB, GR, JP, LU, NL, SG, TR, US, WO
- Besides the citation information created by the **EPO** itself the EPO co-operates with several other offices in the exchange of citation information
 - International search reports are supplied by WIPO and the International Search Authorities **AT, AU, CA, CN, ES, FI, KR, RU, SE**
 - Cooperation with the national offices of **AT, AU, BE, CH, DE, FR, GB, NL, TR** in exchanging search reports
 - Trilateral exchange with the offices of **JP** and **US**

Common citation searches

- Competitive intelligence
 - “Who is becoming active in my technology area?”
- Prior art searches
 - One more tool to find additional references
- Identify key patents of particular area of technology
- Validity searches
 - Especially if any of the citations are category “X”

Competitive intelligence searching

Which patent publications of Qiagen have been cited?

```
=> S QIAGEN/PASS
L1          335 QIAGEN/PA,PAS,PASS

=> TRA L1 PN /RPN
L2          TRANSFER L1 1- PN :    2214 TERM
L3          1647 L2/RPN

=> S L3 NOT QIAGEN/PA,PAS
L4          1530 L3 NOT QIAGEN/PA,PAS

=> D TI PAS PI REP 2

L4          ANSWER .. OF 1530      INPAFAMDB COPYRI
TI          Selektive Reizung von OH-enthaltenden
           - Selective excitation of OH-containing solvents.
           . . . .
PAS          AGILENT TECHNOLOGIES INC, US
PI          EP 1936369              A1 20080625
REP          WO 2005069964          A2 (SEA, pat, Cat: X)
           - GB 2236186              A (SEA, pat, Cat: X)
           - WO 9641864              A1 (SEA, pat, Cat: X)
           - US 20030073229          A1 (SEA, pat, Cat: X)
           - US 20030188575          A1 (SEA, pat, Cat: Y)
           - EP 1688739              A1 (SEA, pat, Cat: Y)
           - EP 962537                A2 (SEA, pat, Cat: Y)
           . . . .
```

1. Company search for Qiagen.

2. **TRANSFER** publication numbers (PN) to the referenced publication number field **/RPN**.

3. Exclude self-citations (L4).

4. Use **REP** field to display referenced (cited) patents.

The cited Qiagen patent publication.

Which patent publications of Qiagen have been cited as x-documents?

```
=> S L3(S)X/CAT NOT QIAGEN/PA,PAS
L5          346 L3(S)X/CAT NOT QIAGEN/PA,PAS
```

```
=> D TI PAS PI REP 2
```

```
L5 ANSWER ... OF INPAFAMDB COPYRIGHT 2009
```

```
TI Micro channel, device for recovering nucleic acid and method for
recovering nucleic acid.
```

```
. . . .
```

```
PAS SONY CORP, JP
```

```
PI CN 101153264 A 20080402
```

```
EP 1903110 A2 20080326
```

```
EP 1903110 A3 20080402
```

```
JP 2008072987 A 20080403
```

```
KR 2008027134 A 20080326
```

```
US 20080161553 A1 20080703
```

```
REP EP 1607748 A1 (SEA, pat, Cat: X)
```

```
- US 5234809 A (SEA, pat, Cat: X)
```

```
- WO 2003046146 A2 (SEA, pat, Cat: X)
```

```
- WO 9501359 A1 (SEA, pat, Cat: X)
```

Use **(S) proximity** to link Qiagen cited publication numbers **/RPN** with search report category **/CAT**.

Cited patent references are conveniently de-duplicated between family members in the standard **REP** display.

The hit Qiagen publication is a high relevance **X** category citation.

Which companies cite patents of Qiagen ?

=> ANA PAS L5

L6 ANALYZE L5 1- PAS : 1248 TERMS

Analyze on the standardized patent assignee name **PAS**

=> D DOC

L6 ANALYZE L5 1- PAS : 1248 TERMS

display the analyze result according to document count

TERM #	# OCC	# DOC	% DOC	PAS
--------	-------	-------	-------	-----

1	57	11	3.16	APPLERA CORP/PAS
2	10	8	2.30	LIFE TECHNOLOGIES CORP/PAS
3	36	7	2.01	HOFFMANN LA ROCHE/PAS
4	36	7	2.01	INVITROGEN CORP/PAS
5	26	7	2.01	ROCHE DIAGNOSTICS GMBH/PAS
6	75	5	1.44	BECTON DICKINSON CO/PAS
7	61	5	1.44	PROMEGA CORP/PAS
8	20	5	1.44	FUJI PHOTO FILM CO LTD/PAS
9	14	5	1.44	AGILENT TECHNOLOGIES INC/PAS
10	12	5	1.44	BENDZKO PETER/PAS

Search report category definitions /CAT

- A** technological background
- D** document cited in the application
- E** earlier application or patent but published on or after the international filing date
- L** document cited for other reasons
- O** non-written disclosure
- P** intermediate document
- T** theory or principle underlying the invention
- X** particularly relevant if taken alone
- Y** particularly relevant if combined with another document of the same category

Search Report Type definitions /SRT

SEA	citation from search report
APP	cited by applicant
EXA*	revealed during examination
OPP*	revealed during opposition
115*	observation by third parties
ISR**	international search report
SUP**	supplementary search report
CH2**	internat. prelimin. search report (chp. II)

* EP-publications, ** PCT-publications

Agenda

- What is INPAFAMDB?
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- **Legal status searching**
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The INPADOC legal status provides more than 2600 different legal status events

L1 ANSWER 1 OF 1 INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN
PI DE 59800642 C5 20100610

LEGAL STATUS

AN 21803804 INPADOCDB

legal status code definition /LSTX

legal status code /LSC

CEASED/NON-PAYMENT OF THE ANNUAL FEE
NIF Lapses, Expiries, Withdrawals, Refusals
200917.....20090423

20090827 DE8370 + INDICATION OF LAPSE OF PATENT IS TO BE DELETED
REI Reinstatement or Restoration
200935.....20090827

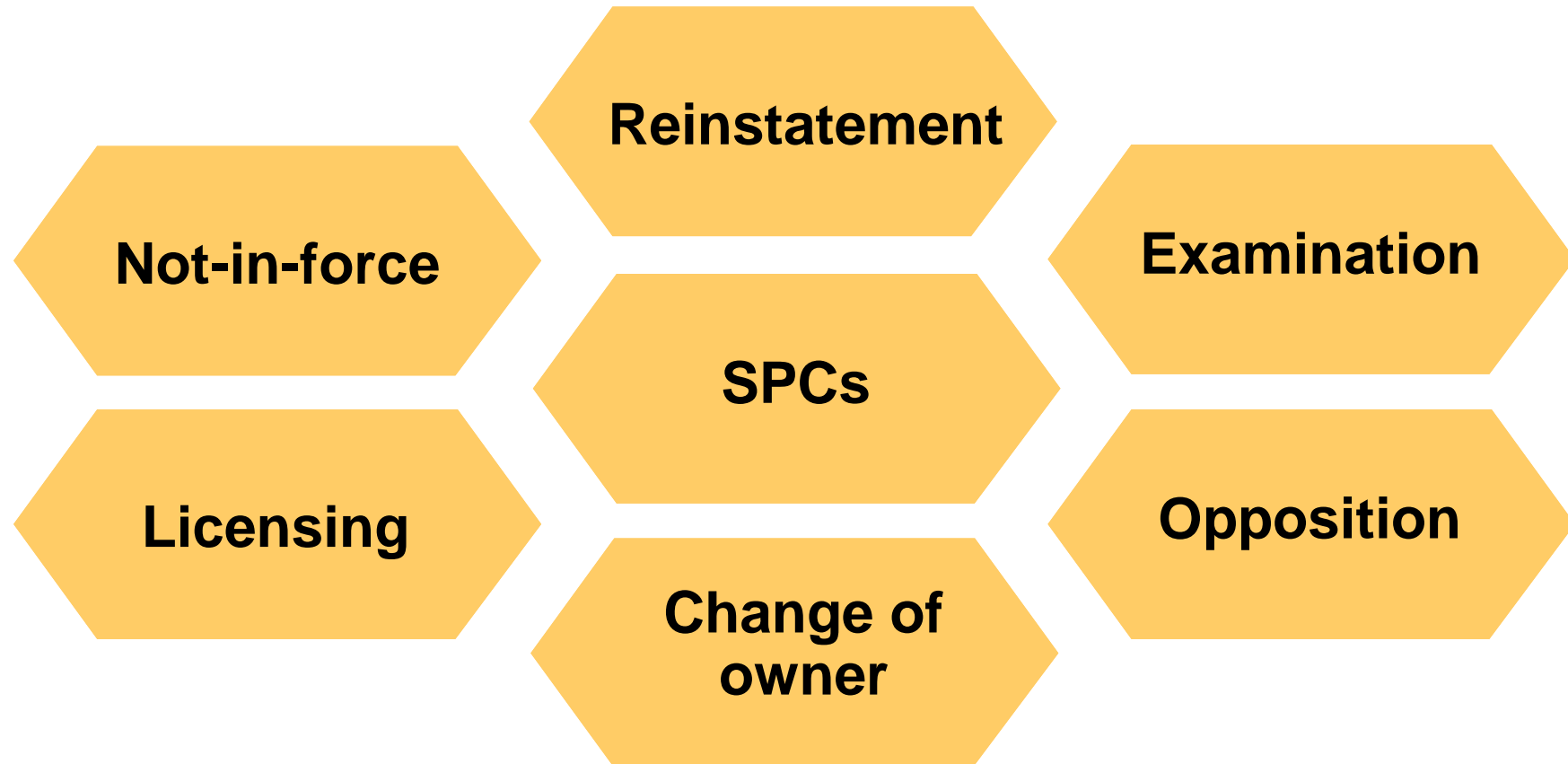
20100512 DE8312 - PARTIAL INVALIDATION
201019.....

legal status update date /UPLS

20100610 DEC5 PUB REVISED PATENT
DE 59800642 C5 20100610
201023.....20100610

20100610 DE8394 PATENT CHANGED DURING THE NULLIFICATION PROCEDURE
(CHANGED PATENT SPECIFICATION REPRINTED)
201023.....20100610

FIZ Editorial-assigned legal status categories simplify legal status searches



FIZ Editorial-assigned assigned legal status categories simplify legal status searches (/LSC2)

- CHG** Change of Owner, Inventor, Applicant
- EXA** Examination, Search Report
- LIC** Licensing
- NIF** Lapses, Expiries, Withdrawals, Refusals
- ORE** Opposition, Reexamination
- REI** Reinstatement or Restoration
- SPC** Supplementary Protection Certificate

Summary information on INPAFAMDB SPC coverage is provided at:
<http://www.epo.org/patents/patent-information/raw-data/inpadoc-faq.html>

Example: Lapse, expiry, withdrawal, or refusal (NIF) of Syngenta inventions

=> FIL INPAFAMDB

=> S SYNGENTA/PASS AND NIF/LSC2

L1 2050 SYNGENTA/PASS AND NIF/LSC2

=> D TI PI HIT L1

L1 ANSWER ... OF 2050 INPAFAMDB COPYRIGHT 2009 EPO/FIZ KA on STN
TI Novel protein, gene encoding the same and method of using the same.
PI AU 2007203494 A1 20070816
PA JAPAN TOBACCO INC.; SYNGENTA LIMITED
PAS JAPAN TOBACCO INC; SYNGENTA LTD

The category **NIF** includes lapses, withdrawals, expiries, and/or refusals.

OPTION: Display just the HIT legal status using **D HIT**.

LEGAL STATUS HIT

AN 35842884 INPAFAMDB UPFL 20080424

20080320 AUMK1 - APPLICATION LAPSED SECTION 142(2)(A) - NO REQUEST FOR EXAMINATION IN RELEVANT PERIOD [AU2007203494A]
NIF Lapses, Expiries, Withdrawals, Refusals
200817.....20080424

1 priority, 1 application, 1 publication

For standard legal status searches and display use INPADOCDB

Which EP-applications of Henkel AG have been withdrawn in 2010 ?

=> **FIL INPADOCDB**

=> **S HENKEL/PA,PAS AND EPA#/PK AND WITHDRAWN/LSTX(1)2010/UPLS**

L1 47 HENKEL/PA,PAS AND EPA#/PK AND WITHDRAWN/LSTX(L)2010/UPLS

=> **D BIB LS**

AN 59747642 INPADOC

TI KORRUGIERENDES P

CORRUGATING ADHESIVE AND USE THEREOF.....

IN SWIEZKOWSKI, FRANK; LEAKE, CRAIG, H.; BILLMERS, ROBERT, L.;

INS SWIEZKOWSKI FRANK, US; LEAKE CRAIG H, US; BILLMERS ROBERT L, US;....

PA **HENKEL AG & CO. KGAA**

PAS **HENKEL AG & CO KGAA, DE**

PI **EP 2118221** **A1 20091118** English

PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT

STA PRE-GRANT PUBLICATION

AI EP 2008-730458 A 20080222

PRAI WO 2008-US54660 W 20080222 (WOWW, 20091119, N)

US 2007-891288P P 20070223 (USP, 20080904, Y)

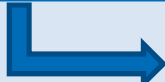
/LSTX: text search in the definition of the legal status codes
/UPLS: legal status update date
(L)-proximity: applies to all data of one legal status entry

For standard legal status searches and display use INPADOCDB

use the display format **LS** to display
the legal status in INPADOCDB

```
LEGAL STATUS
AN      59747642 INPADOCDB
20070223 USP      PRI Provisional application
                        US 2007-891288P      P 20070223
                        .....20091119
20080222 WOWW    PRI Additional PCT application
                        WO 2008-US54660      WW 20080222
                        .....20091119
.....
20091118 EP17P   + REQUEST FOR EXAMINATION FILED
                        20090908
                        EXA Examination, Search Report
                        200947.....20091119

20100310 EP18W   - WITHDRAWN
                        20100127
                        NIF Lapses, Expiries, Withdrawals, Refusals
                        201010.....20100312
```

 *one legal status event => (L)-proximity*

Agenda

- What is INPAFAMDB?
- Finding patent families
- Inventor and patent assignee searching
- Prior art searching
- Citation searching
- Legal status searching
- **Alerts**
- Frequently Asked Questions

The INPADOC databases offer focused and customizable alerts (weekly, monthly)

- Options for patent family monitoring
 - all new family members
 - family members from particular *countries* only
 - *granted* patents only
 - *specific publication types* only, e.g. EP A1, EP A2
- Options for legal status monitoring
 - all legal status changes for a particular publication
 - all legal status changes for *all family members*
 - *specific legal status* events only
 - specific events can be *excluded* from legal status SDI

when you need support for setting up INPADOC-SDIs, please contact
HELPDESK@FIZ-KARSLRUHE.DE

INPAFAMDB update code options

New family ("basic")	EDF
New family member	UPFD
New publication	UPFP
Update to bibliography	UPFB
Update to legal status	UPFL
New document or LS	UPFE
All updates (any changes)	UPFA

See the database summary sheet at
<http://www.stn-international.com/inpafamdb.html>

Monitor key Pfizer patent applications for new family members or legal status changes

```
=> S (WO2005067620 OR WO2005080313 OR WO2003102130 OR  
WO2005004839 OR WO2005009965 OR WO2007116313 .....)/PN  
L1 10 (WO2005067620 OR WO2005080313 OR WO2003102130 OR ....
```

=> SDI

For automatic current awareness searches use the **SDI** command.

```
ENTER QUERY L# FOR SDI REQUEST OR (END):L1  
ENTER UPDATE FIELD CODE (UP) OR ? : UPFE  
ENTER SDI REQUEST NAME, (AA007/S), OR END:PFIZER/S  
  o o o  
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN? Y/(N): N  
ENTER PRINT FORMAT (BIB.M) OR ? : CFAM FFAMED  
HIGHLIGHT HIT TERMS? (Y)/N:.  
ARCHIVE ANSWERS? Y/(N):.  
REDISTRIBUTE ANSWERS? Y/(N):.  
ENTER MAXIMUM NUMBER OF HITS TO BE  
  o o o
```

The combination of **UPFE** update code and **FFAMED** display format provides any new records, new publications, or new Legal Status for each SDI run.

Monitor key Pfizer patent applications for new family members or legal status changes

PATENT FAMILY INFORMATION
AN 36026113 INPAFAMDB

```

+-----PI-----+
CA 2647448          A1 20071018
EP 2059515          A2 20090520
US 20090124636     A1 20090514
WO 2007116313     A2 20071018
WO 2007116313     A3 20080110
    
```

3 priorities, 4 applications, 5 publications

MEMBER 2

```

AN 36026113 INPAFAMDB ED 20090522 EW 200921 UP 20090522 UW 200921
DN 58630959
TI PYRROLIDINDERIVATE ALS MODULATOREN VON CHEMOKIN-CCR5-REZEPTOREN.
   PYRROLIDINE DERIVATIVES AS MODULATORS OF CHEMOKINE CCR5 RECEPTORS.
   DERIVES DE PYRROLIDINE COMME MODULATEURS DE RECEPTEURS CCR5 DES
   CHIMIOKINES.
PA PFIZER LIMITED
PAS PFIZER LTD, GB
DT Patent
PI EP 2059515          A2 20090520 Eng
    
```

LEGAL STATUS CURRENT UPDATE
AN 36026113 INPAFAMDB

```

.....
20090520 EP17P          + REQUEST FOR EXAMINATION
                        20081112
                        EXA Examination, Search Report
                        200921.....20090522
    
```

MEMBER 3

This SDI regularly delivers a simple list of publication numbers (**CFAM**), details of new publications, and/or legal status changes from the latest database update (**FFAMED**).

For **WO 2007116313** we have two new publications for **EP** and **US** and new legal status information in the latest database update.

Frequently Asked Questions

1. Which file should I use for classification/subject searching? **INPAFAMDB**
2. Which file should I use to analyze filings by country? **INPADOCDB**
3. Which file should I use for inventor searches? **INPAFAMDB**
4. Which file should I use for multiframe searching with CAplus and DWPI? **INPAFAMDB**
5. Which file should I use for legal status searches when I look at specific appl.? **INPADOCDB**

Key features and benefits of INPAFAMDB

- Family-based file design greatly enhances prior art and multifile searches with CAPLUS and DWPI
- FIZ Karlsruhe editorial corrections provide accurate and comprehensive patent families
- Flexible family displays and bibliographic details facilitate the analysis of patent families
- Focused and customizable alerts with weekly and monthly monitoring options
- Simplified legal status searching using Legal Status Categories (LSC2) assigned by STN
- More comprehensive assignee and inventor searches with extended search options

STN[®]

INPAFAMDB on STN

www.stn-international.com