

STN[®]

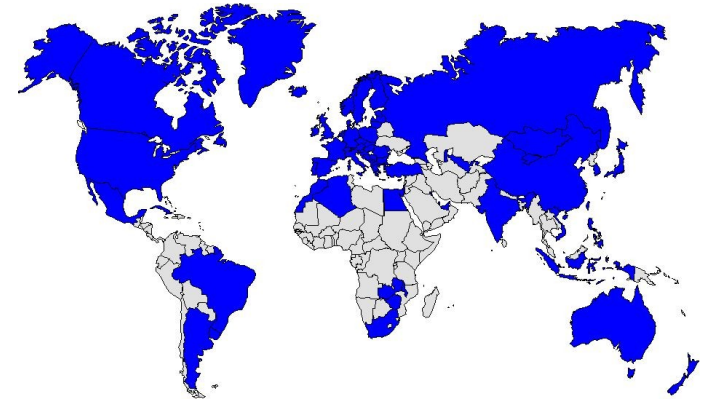
INPADOCDB

INPAFAMDB

Claus-Dieter Siems – FIZ Karlsruhe
STN User Meeting
May 2008

Agenda

- Database content and record structures
- Text searching
- Classification searching
- Name searching
- Citation searching
- INPADOCDB/INPAFAMDB patent families
- Legal status searching
- SDI searching



Database content

The **EPO Patent Information Resource** contains the harmonized files of INPADOC and DOCDB, together with EPOs abstract database, the REFI citation file, and the INPADOC legal status file:

- More than 65 million documents / 36 million patent families
- Bibliographic and patent family information for 81 patent authorities from the mid-1800's
- Abstracts for 43 patent authorities
- Cited references from 13 patent authorities
- Classification codes include:
Reformed IPC, ECLA, NCL, ICO, IDT
- Legal status for 51 patent authorities from 1978

For a complete list of the 81 patent authorities, see

http://patentinfo.european-patent-office.org/_resources/data/pdf/global_patent_data_coverage.pdf

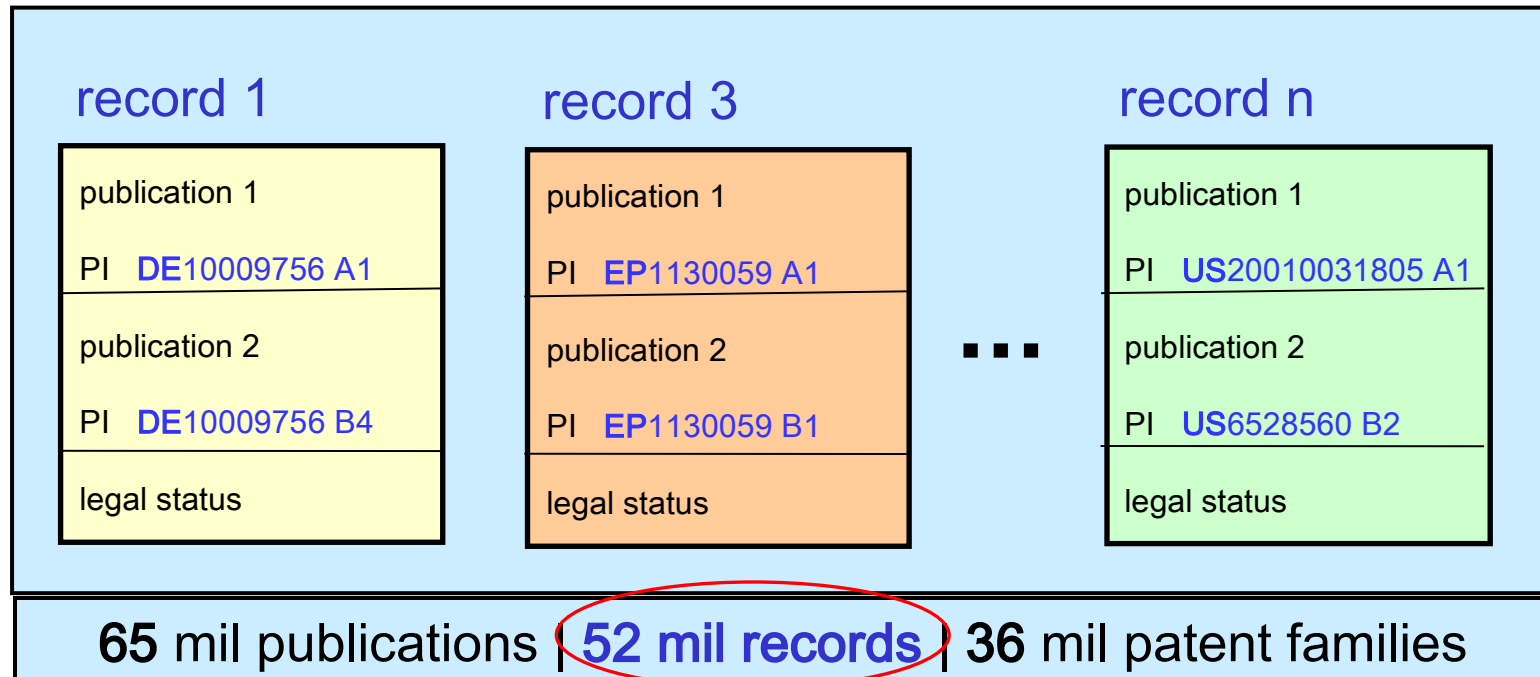
Content of an **INPADOCDB** Record

- application based -

All patent publications issued by the same authority, for a single patent application number form one INPADOCDB record - sorted by publication date

- Bibliographic data **BIB**
- Abstract(s) **AB**
- Cited references **RE**
- Classification(s) **IND**
- Legal status **LS**
- Patent family Number **FN**

INPADOCDB record and patent family



All publications which are **directly** or **indirectly** linked via a priority application number form an INPADOCDB patent family.

Based on this family definition one unique patent family number FN is assigned for all records belonging to one patent family

Content of an **INPAFAMDB** Record - invention based -

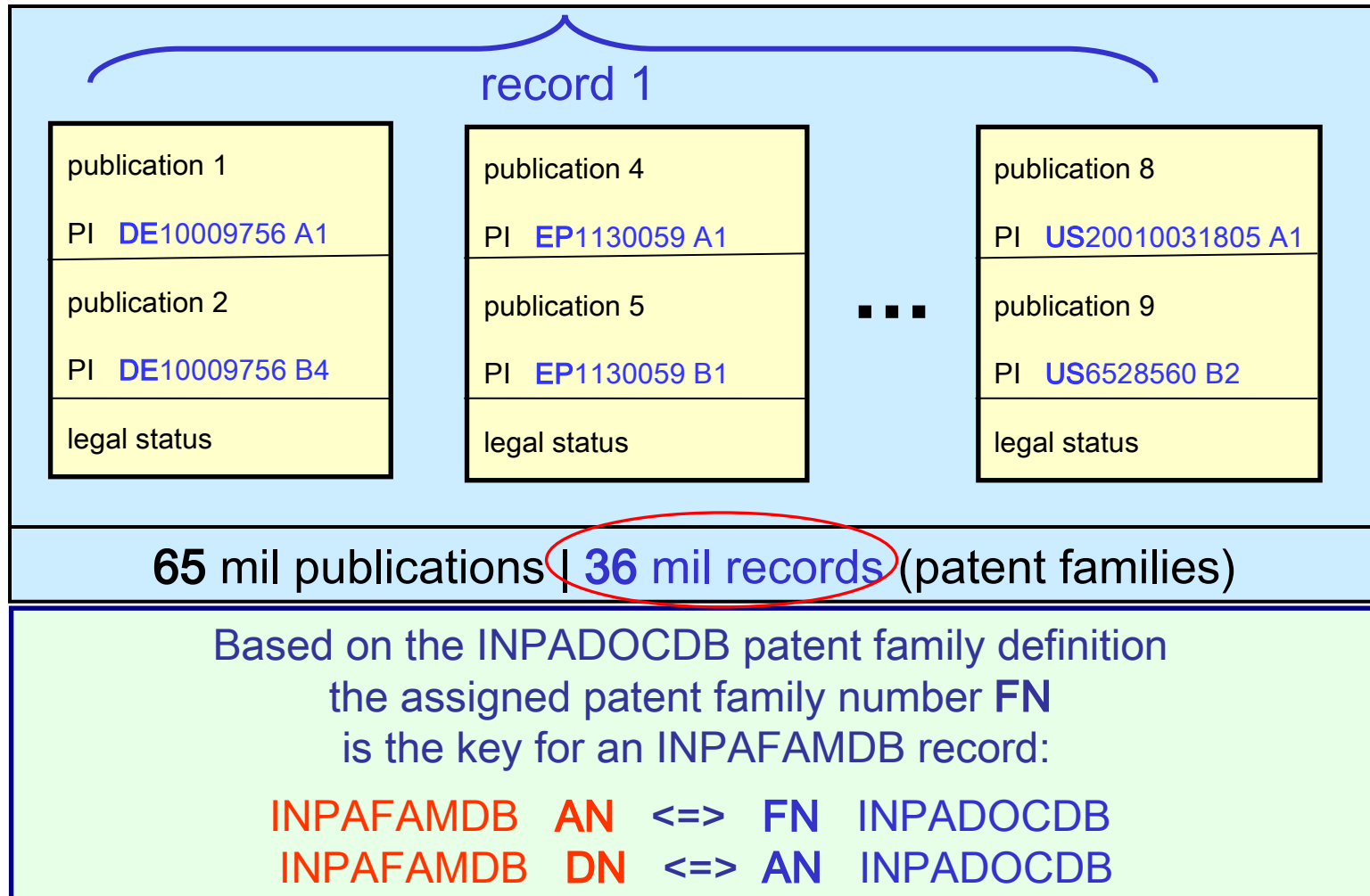
INPAFAMDB is the companion file to INPADOCDB

All patent publications of **one patent family**
(invention) form **one record** in the INPAFAMDB.

The accession number AN for one family record
is based on the family number FN of INPADOCDB.

The document number DN displayed in INPAFAMDB is the
Accession Number AN from INPADOCDB

INPAFAMDB patent family



New data elements in an application

D MAX

BIB

AB

IND

RE

LS

```

AN      24075775 INPADOCDB  ED 20061122  UP 20061122
FN      15979761
TI      Direkte Herstellung von Teilen fuer die Luftfahrt.
        Direct manufacture of aerospace parts.
        Fabrication directe de pieces pour l'aeronautique.
TL      German; English; French
IN      WANNEMUEHLER, KEVIN L.; MILLER, ROBERT P.; DEGRANGE, JEFFREY E.;
        BELLMAN, DANIEL F.; BOND, GARY G.; FINK, JEFFREY E.; TAYLOR, TRACY;
        SPIELMAN, ROGER L.
INS     WANNEMUEHLER KEVIN L, US; MILLER ROBERT P, US; DEGRANGE JEFFREY E,
        US; BELLMAN DANIEL F, US; BOND GARY G, US; FINK JEFFREY E, US;
        TAYLOR TRACY, US; SPIELMAN ROGER L, US
PA      THE BOEING COMPANY
PAS     BOEING CO, US
DT      Patent
PI      EP 1384565          A1 20040128      English
PIT     EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT
DAV     20040128  examined-printed-without-grant
STA     PRE-GRANT PUBLICATION
AI      EP 2003-77123      A  20030704
AIT     EPA Patent application
PRAI   US 2002-205451      A  20020725      (USA)
PRAIT  USA Patent application
DS      R:      AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC
        NL PT RO SE SI SK TR
FA      AB; AI; AN; DS; DT; ED; ICM; IN; INS; IPC; IPCR; LA; PA; PAS; PI;
        PIT; PRAI; REN; REP; REXP; TI
  
```

New
data
after
reload

ST

New data elements in an application(2)

D MAX

BIB

AB

IND

RE

LS

AN 24075775 INPADOCDB ED 20061122 UP 20061122

FN 15979761

TI Direkte Herstellung von Teilen fuer die Luftfahrt.

AB A process of fabricating aerospace parts using selective laser sintering is provided, wherein the process generally comprises the steps of preparing a powder nylon material, loading the powder nylon material into a laser sintering machine, warming up the powder nylon material according to build warm-up parameters, building the part according to build parameters and part parameters, and cooling down the part according to build cool-down parameters. As a result, parts are produced that are directly used in aerospace structures, which meet the stringent performance requirements of aerospace applications, rather than as rapid prototypes as with conventional selective laser sintering processes. Additionally, specific designs for aerospace parts such as ducts, panels, and shrouds are provided that are produced by the selective laser sintering process.

<IMAGE>.

AI AL English

AIT AS EPO

PRA ABDE . . . (Abstract in German)

PRA ABFR . . . (Abstract in French)

DS ABES . . . (Abstract in Spanish)

ABOL . . . (Abstract in "other language")

FA ABO . . . (Abstract, original characters)

PIT; PRAI; REN; REP; REXP; TI

S

New data elements in an application(3)

D MAX

BIB

AB

IND

RE

LS

AN	24075775	INPADOCDB	ED	20061122	UP	20061122
FN	15979761					
TI	Direkte Herstellung von Teilen fuer die Luftfahrt					
AB	A process of fabricating aerospace parts using selective					
TL	IC.V 7					
IN	ICM	B29C0067-00				
INS	IPCR	B64F0005-00 [I,A]; B29C0035-08 [I,A]; B29C0041-02 [I,A]; B29C0041-46 [I,A]; B29C0041-52 [I,A]; B29C0067-00 [I,A]; B29C0067-04 [I,A]; B29C0071-00 [I,A]; B29K0077-00 [N,A]; B29L0031-30 [N,A]; G06F0019-00 [I,A]				
		B64F0005-00 [I,C*]; B29C0035-08 [I,C*]; B29C0041-02 [I,C*]; B29C0041-34 [I,C*]; B29C0067-00 [I,C*]; B29C0067-02 [I,C*]; B29C0071-00 [I,C*]; G06F0019-00 [I,C*]				
	EPC	B29C0067-00L2D; B29C0041-46; B29C0041-52; B29C0067-00L6B2B				
	ICO	L29C0067:00L2; L29C0277:00; L29C0605:18; L29C0605:30				
DAV	IDT	B29C41/46; B29C41/52; B29C67/00L2				
STA	AI	AL				
	AIT	AS				
	PRA	ABDE				
	PRA	ABFR				
	DS	ABES				
FA	ABOL	. . . (Abstract in "other language")				
	ABO	. . . (Abstract, original characters)				

S

New data elements in an application(4)

D MAX

BIB

AB

IND

RE

LS

AN 24075775 INPADOCDB ED 20061122 UP 20061122

FN 15979761

TI Direkte Herstellung von Teilen fuer die Luftfahrt.

AB A process of fabricating aerospace parts using selective

TL IC.V 7

IN ICM
IPCR

REC 5.THERE ARE 5 CITED REFERENCES (3 PATENT, 2 NON PATENT AVAILABLE FOR THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.

INS

REP US 6245281 B1 (SEA, pat, Cat: X)
US 6136948 (SEA, pat, Cat: Y)
EP 0703036 A2 (SEA, pat, Cat: A)
REXP XP002213140 (SEA, Cat: X)
XP000656866 (SEA, Cat: X)

PA

PAS

DT

PI

PIT

DAV

STA

AI AL

AIT AS

PRA -----

PRA ABDE

DS ABFR

ABES . . .

FA ABOL . . .

EPC
ICO
IDT

REN (1) KELLER PETER: "Der Stoff, aus dem die Prototypen sind" KUNSTSTOFFE, CARL HANSER VERLAG. MUNCHEN, DE, vol. 89, no. 11, 1 November 1999 (1999-11-01), pages 58-61, XP002213140 ISSN: 0023-5563 (SEA, Cat: X)
(2) SCHMACHTENBERG E ET AL: "LASERSINTERN VON POLYAMID LASER-SINTERING OF POLYAMIDE" KUNSTSTOFFE, CARL HANSER VERLAG. MUNCHEN, DE, vol. 87, no. 6, 1 June 1997 (1997-06-01), pages 773-774,776, XP000656866 ISSN: 0023-5563 (SEA, Cat: X)

PIT; PRAI; REN; REP; REXP; TI

ST

New data elements in an application(5)

D MAX

BIB
AB
IND
RE
LS

AN	24075775	INPADOCDB	ED	20061122	UP	20061122
FN	15979761					
TI	Direkte Herstellung von Teilen fuer die Luftfahrt.					
AB	A process of fabricating aerospace parts using selective					
TL	IC.V 7					
IN	ICM	REP	US	6245281	B1 (SEA, pat, Cat: X)	
	IPCF					
INS	REXP		AN	24075775	INPADOCDB	
			20040128	EPAK	+ DESIGNATED CONTRACTING STATES:	
					EP	A1
	REN				AT BE BG CH CY CZ DE DK EE ES FI FR	
PA					GB GR HU IE IT LI LU MC NL PT RO SE	
PAS					SI SK TR	
DT			20040128	EPAK	+ EXTENSION OF THE EUROPEAN PATENT TO	
PI	EPC				AL LT LV MK	
PIT	ICO		20040407	EP17P	+ REQUEST FOR EXAMINATION FILED	
DAV	IDT				20040205	
STA					EXA Examination, Search Report	
AI	AL					
AIT	AS		20041020	EPAKX	+ PAYMENT OF DESIGNATION FEES	
PRA	-----				AT BE BG CH CY CZ DE DK EE ES FI FR	
PRA	ABDE				GB GR HU E IT LI LU MC NL PT RO SE	
DS	ABFR				SI SK TR	
	ABES	. .			200703.....2007011	
FA	ABOL	
					PIT; PRAI; REN; REP; REXP; TI	

S

Display Formats



BIB	AN, FN , ED, EDP, UP, EW, UP, UW, TI, TL, IN, INS, INA, PA, PAS, PAA, LA, LAF, PI, DS, DT, PIT, FDT, DAV , STA , AI, AIT, PRAI, PRAIT, REC
IND	AN, ED, EW, UP, UW, ICM, ICS, ICA, ICI, IPCI, IPCR, EPC, ICO , IDT , NCL
STD	BIB +IND +FA + CHG
ALL	BIB +IND +FA +CHG + all Abs (= STD+ABS)
MAX	BIB +IND +FA +CHG + all Abs RE +LS for all publications (=MAX.M)
ALLO and MAXO	ALL or MAX plus Original Data (TIO, INO, PAO, AIO, PRAO, ABO), and with UTF-8 characters

TI Call simultaneous preemptive removing method in distribution call processing system.

TL English

TIO 分布式呼叫处理系统中的呼叫同抢消除方法

IN WEIBIN WANG; JIANYE CHEN; LIHUA ZHANG

INS WANG WEIBIN, CN; CHEN JIANYE, CN; ZHANG LIHUA, CN

INO 王卫斌

PA ZHONGXING COMMUNICATION CO., LTD.

PAS ZHONGXING COMM CO LTD, CN

PAO 中兴通讯股份有限公司

DT Patent

PI CN 1561138 A 20050105

PIT CNA UNEXAMINED APPLICATION FOR A PATENT FOR INV.

DAV 20050105 unexamined-printed-without-grant

STA PRE-GRANT PUBLICATION

AI CN 2004-10037327 A 20040428

AIO CNA2004100373272

AIT CNA Patent application

PRAI CN 2004-10037327 A 20040428 (CNA)
CN 2004-10006341 A 20040226 (CNA)

PRAO 2004100063416

PRAIT CNA Patent application

IC.V 7

ICM H04Q0007-38

IPCR H04Q0007-38 [I,A]
H04Q0007-38 [I,C*]

ABO 本发明公开了一种分布式呼叫处理系统中的呼叫同抢消除方法，定义了两个状态：S0表示未收到呼叫请求，S1表示已为本端呼叫分配资源，S0状态下，本端为呼叫分配资源成功并向远端申请资源后，迁入S1，否则保持为S0；S1状态下，收

In **STN Express ≥ V8.2** and **STN on the Web** converted UTF8-characters allow e.g. the display of a Chinese patent application with original characters. The character sets must be installed!

Formats: **ALLO** or **MAXO**

The PDF or RTF-transcript shows the original characters also – even if the character sets are not installed

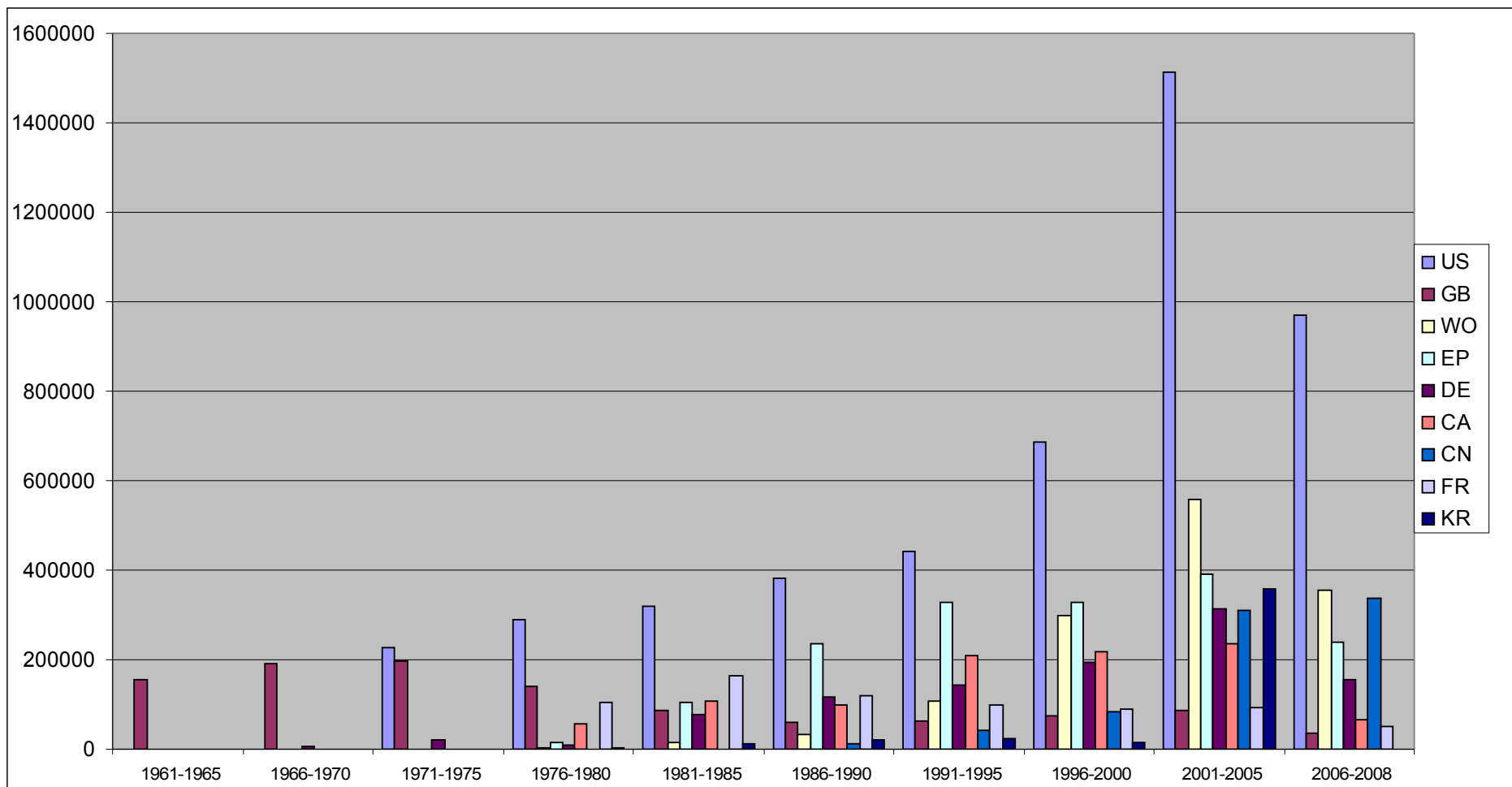
INPADOCDB provides more than **13** million abstracts* from **43** patent authorities

Country	Number (million) *)	Language(s)
US	4.5	EN
GB	2.0	EN
WO	1.3	EN/DE/FR/ES
EP	1.1	EN/DE/FR
DE	0.9	DE/EN
CA	0.9	EN/FR
CN	0.6	EN/CN
FR	0.6	FR/EN
...		

*number of records with abstract (2008/01)

English abstracts/abridgements of GB-publications are available back to 1897

INPADOCDB abstracts



Agenda

- Database content and record structures
- **Text searching**
- Classification searching
- Name searching
- Citation searching
- INPADOCDB/INPAFAMDB patent families
- Legal status searching
- SDI searching

Not just for patent families and legal status...anymore!

- 13,5 million publications with abstracts
INPADOCDB: 26% (INPAFAMDB: 24%)
 - 1.2 million records before 1968 have abstracts
- Original titles for 82% of the ENTIRE file
 - Titles back to 1893
 - Titles for 91% from 1968 on
- Patent citations
 - 11 million records with about 78 million citations

Technology searching in INPAFAMDB via INPADOODB

Search for „LASER or RAPID PROTOTYPING“

```

=> FIL INPAFAMDB
=> S (LASER OR RAPID) AND PROTOTYPING
    154741 LASER
    9323 LASERS
    156802 LASER
        (LASER OR LASERS)
    62155 RAPID
    88 RAPIDS
    62238 RAPID
        (RAPID OR RAPIDS)
    594 PROTOTYPING
L1      431 (LASER OR RAPID) AND PROTOTYPING
=> Fil INPADOODB
=> s (laser or rapid) and prototyping
L2      790 (LASER OR RAPID) AND PROTOTYPING

=> Fil INPADFAMDB

=> TRANSFER L2 PN 1-
SELECT IS APPROXIMATELY 86% COMPLETE
L3      TRANSFER L3 1- PN :      790 TERMS
L4      429 L6

=> S L1 NOT L7
L5      2 L1 NOT L4

```

These records have not been found in INPADOODB

Technology searching in INPAFAMDB

L5 ANSWER 2 OF 2 INPAFAMDB COPYRIGHT 2008 EPO/FIZ KA on STN
 AN 11636111 INPAFAMDB UPFB 20070405
 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 SELON UNE TECHNIQUE DE PROTOTYPAGE RAPIDE.
- Component gripper and manipulator has frame with at least **laser**-fritted material.
- DISPOSITIF DE PREHENSION D'UNE PIECE, ET PROCEDE POUR SA FABRICATION.
- DEVICE FOR GRIPPING A PART, AND METHOD FOR MAKING SAME.

Use of the family based index gives more results in INPAFAMDB

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

AB (WO 2003035336 A1)

The invention concerns a gripper device comprising a frame (12) having an interface (22) capable of being fixed to a displacement member (14) and supporting at least a gripping member (16) for maintaining a part (P) in a geometric position defined relative to the frame. The frame (12) comprises at least a shaped element (18, 20) produced in a sintered material obtained by locally melting a powder material by heat input. The inventive gripper device is particularly useful on motor vehicle assembly lines.....

Agenda

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- Text searching
- **Classification searching**
- Name searching
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- INPADOCDB/INPADFAMDB patent families
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Patent classifications in INPADOCDB

- International Patent Classifications **IPC**
- European Patent Office Classifications:
 - European Patent Classification ECLA **EPC**
 - **ICO classifications (In Computer Only) ICO**
 - **Old Dutch Patent Classification IDT**
- National Patent Classifications: **NCL**
 - AT, BR, CA, DE, DK, ES, GB, MX, NL, US

Classifications are available in the standard display formats
IND, STD, ALL, MAX,...

Improved ECLA-classification and new ICO-classification

- European patent classification ECLA
 - is now available for all publications classified by EPO
 - ECLA codes are standardized in IPC8 format, e.g. **C12N0015-10A2D**
 - See =>HELP EPC
- ICO classification (in computer only)
 - ICO symbols and ECLA symbols are related: instead of **A,B,C,D,E,F,G,H** the first letter is **K,L,M,N,P,R,S,T**
 - ICO symbols describe minor aspects of the invention
 - ICO codes are standardized in IPC8 format also, e.g. **M12Q0001:68D4**
 - See => HELP ICO

- On STN **searchable PDF files** are available for **EPC, ICO** and **IDT!**
- **Monthly update** of EPC and ICO => **Supplement pdf-files**



ECLA codes in searchable PDF-File

A47C7/34D	NT10	[N: Upholstery of the springing]
A47C7/34D2	NT11	[N: with at least one foamed layer]
A47C7/34D2B	NT12	[N: the springs being embedded in or disposed against the foamed layer]
A47C7/36	NT8	TI: Support for the head or the back
A47C7/38	NT9	TI: for the head, e.g. detachable (for operating or dental chairs (see ECLA/ICO: A61G15/00); in car seat (see ECLA/ICO: B60N2/48)G) [C0801]
A47C7/38A	NT10	[N: Loose head- or neck-pillow, e.g. horse-shoe shaped] [N0801]
A47C7/38C	NT10	[N: Detachable protective covers or cushions for headrests] [N9611]
A47C7/40	NT9	TI: for the back
A47C7/40B	NT10	[N: adjustable in height ((see ECLA/ICO: A47C7/42) and (see ECLA/ICO: A47C7/44) take precedence)]
A47C7/42	NT10	TI: of detachable or collapsible type
A47C7/42B	NT11	[N: Supplementary back-rests to be hooked on to a back-rest or the like (children`s seats to be hooked on (see ECLA/ICO: A47D1/10B))]

You can search for the marker [N0801] to see all new entries in Jan. 2008

Extend an IPC search to ECLA (/EPC) to retrieve additional relevant answers

=> S H01J0037-34?/EPC NOT H01J0037-34/IPC

L5 62 H01J0037-34?/EPC NOT H0

ECLA (/EPC) are standardized to Reformed IPC format for ease-of-searching.

=> D BIB IPC EPC

L5 ANSWER 1 OF 62 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN

AN 52928950 INPADOCDB ED 20070405 EW 200714 UP 20070405 UW 200714

TI MODULAR DEVICE FOR COATING SURFACES.

IN CSELLETIBOR; JILEKMOJMIR

PA PLATIT AG; PIVOT A.S.

PI KR 2007007251 A 20070115

PIT KRA OFFICIAL GAZETTE OF THE UNEXAMINED PATENTS

DAV 20070115 unexamined-printed-without-grant

STA PRE-GRANT PUBLICATION

AI KR 2006-7008721 A 20060504

AIT KRA Patent application

PRAI EP 2003-405753 A 20031017 (EPA)

PRAIT EPA Patent application

IPCI C23C0014-32 [I,A]; C23C0014-34 [I,A]; C23C0014-32 [I,C*]; C23C0014-34 [I,C*]

EPC C23C0014-34F; **H01J0037-34**

Unique records are often found by extending an IPC search to include ECLA.

Use ICO to search for emerging technologies, such as nanotechnology

=> E Y/ICO

...

```
E3          0 --> Y/ICO
E4         12533      Y01N0002:00/ICO
E5         24736      Y01N0004:00/ICO
E6         24666      Y01N0006:00/ICO
E7         10312      Y01N0008:00/ICO
E8         11542      Y01N0010:00/ICO
E9          8911      Y01N0012:00/ICO
```

**** END OF FIELD ****

=> S E4

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L2          12533 "Y01N0002:00"/ICO
```

=> D TI IND

```
L2          ANSWER 1 OF 12533      INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
TI          Functionalized carbon nanotubes, a process for preparing . . .
IPCI       A61K0038-08 [I,A]; A61K0031-403 [I,A]; C07K0007-06 [I,A]; . . .
IPCR       A61K0047-48 [I,A]; A61P0031-00 [I,A]; A61P0037-00 [I,A]; A61P0043-00
           [I,A]; C01B0031-02 [I,A]; G01N0033-543 [I,A]; G01N0033-551 [I,A]
           G01N0033-543 [I,C*]; G01N0033-551 [I,C*]
NCL        X514410000; X977746000; X548416000; 514017000; X530329000
EPC        A61K0047-48W14B; C01B0031-02B; G01N0033-543F; G01N0033-551
ICO        Y01N0002:00 ; Y01N0006:00
```

Since 2004:

Y01N0002 Nanobiotechnology
Y01N0004 Nanotechnology for information processing, storage and transmission
Y01N0006 Nanotechnology for materials and surface science
Y01N0008 Nanotechnology for interacting, sensing or actuating
Y01N0010 Nanooptics
Y01N0012 Nanomagnetism

ICO codes in searchable PDF-File

T01L21/8232	NT13	TI: Field-effect technology [N0002]
T01L21/8234	NT14	TI: MIS technology, i.e. integration processes of field effect transistors
T01L21/8239	NT15	TI: Memory structures [N0002]
....		
T01L21/8239	NT15	TI: Memory structures [N0002]
...		
T01L21/8242	NT16	TI: Dynamic random access memory structures (DRAM) [N0002]
T01L21/8242B	NT17	TI: characterised by the type of the capacitor [N0002]
.....		
T01L21/8246M	NT17	TI: Magnetic non-volatile memory structures, e.g. MRAM [N0010]
T01L21/8246P	NT17	TI: PROM [N0010]
T01L21/8246R	NT17	TI: ROM only [N0010]
T01L21/8246R2	NT18	TI: with source and drain on the same level, e.g. lateral channel [N0010]
T01L21/8246R2B	NT19	TI: source or drain contact programmed [N0010]
T01L21/8246R2C	NT19	TI: gate contact programmed [N0010]
T01L21/8246R2D	NT19	TI: doping programmed, e.g. mask ROM [N0010]
T01L21/8246R2D4	NT20	TI: entire channel doping programmed [N0010]
T01L21/8246R2D6	NT20	TI: source or drain doping programmed [N0010]

IDT “Indeling der Techniek”

- Used by the *Institut International des Brevets (IIB)*
- Basis of the European Patent Classification
- Many were converted by the EPO into ECLA terms, but not possible for some areas of organic chemistry
- STN is offering a file with text information for IDT (about 11,000 terms – mostly in French)
- Also available on STN via “HELP IDT”

See http://www.stn-international.de/stndatabases/IdT_EPO.zip

INPAFAMDB Technology Analysis (1)

=> FIL INPAFAMDB

=> S SYNGENTA/PA, PAS

1720 SYNGENTA/PA

1715 SYNGENTA/PAS

L1 1724 SYNGENTA/PA, PAS

=> ANA L1 IPC LEN8

.....

L2 ANALYZE L1 1- IPC LEN 8 8 : 1119 TERMS

=> D DOC IPC

L2 ANALYZE L1 1- IPC LEN 8 8 : 1119 TERMS

TERM #	# OCC	# DOC	% DOC	IPC
1	36284	557	32.31	A01N0043
2	8261	511	29.64	A01H0005
3	25186	389	22.56	C12N0015
6	5420	249	14.44	C12N0005
7	2778	241	13.98	A01H0001
8	12315	237	13.75	A01N0037
9	10342	234	13.57	A01N0025
10	699	226	13.11	A01N
12	8175	197	11.43	A01N0047
13	5431	194	11.25	C07K0014

**DOC = Number of Patent families /
Inventions**
OCC = Number of Occurrence

Agenda

- Database content and record structures
- Text searching
- Classification searching
- **Name searching**
- Citation searching
- INPADOCDB/INPAFAMDB patent families
- Legal status searching
- SDI searching

Name searching

Where to search names:

- 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 name fields are available
 - **/PASS** includes /PA, /PAS and /LSPA
(/PASS with default S-proximity)
 - **/INSS** includes /IN, /INS and /LSIN



Supersearch field PASS

- Search Example 1 -

=> S SIEMENS BOSCH/PASS

```

404119 SIEMENS/PA
  397726 SIEMENS/PAS
    38618 SIEMENS/LSPA
419871 SIEMENS/PASS
      (SIEMENS/PA, PAS, LSPA)
172876 BOSCH/PA
169695 BOSCH/PAS
  17704 BOSCH/LSPA
180317 BOSCH/PASS
      (BOSCH/PA, PAS, LSPA)
L1      19157 SIEMENS BOSCH/PASS
          ((SIEMENS (S) BOSCH) /PASS)

```

Default S-proximity for
PA, PAS, LSPA, and PASS

=> s SIEMENS BOSCH/LSPA NOT SIEMENS BOSCH/PA, PAS

```

38618 SIEMENS/LSPA
17704 BOSCH/LSPA
  2802 SIEMENS BOSCH/LSPA
      ((SIEMENS (S) BOSCH) /LSPA)

```

. . .

L2 275 SIEMENS BOSCH/LSPA NOT SIEMENS BOSCH/PA, PAS

Extend the search to legal status fields

- Search Example 2 -

=> S L9 OR (WOLFGANG (S) SCHNEIDER) /LSPA,LSOP,LSIN

L11 946 L9 OR (WOLFGANG (S) SCHNEIDER) /LSPA,LSOP,LSIN

=> S L11 NOT L9

L12 3 L11 NOT L9

Extending the search to LSPA, LSOP, and LSIN retrieves 3 extra records, where Wolfgang Schneider is referred to only in the Legal Status.

=> D IN INS PA PAS HIT

L12 ANSWER 1 OF 3 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
 IN BACH, HANS FRIEDRICH, PROF. DR., 82049 PULLACH, DE; KREIMES, HORST,
 DR., 83352 ALTENMARKT, DE
 INS BACH HANS FRIEDRICH PROF DR, DE; KREIMES HORST DR, DE
 PA SKW TROSTBERG AG, 83308 TROSTBERG, DE
 PAS SUEDEDEUTSCHE KALKSTICKSTOFF, DE

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

LEGAL STATUS HIT

AN 21383067 INPADOCDB

19991028 DE8127

NEW PERSON/NAME/ADDRESS OF THE APPLICANT

SCHNEIDER, WOLFGANG, 44649 HERNE, DE

CHG Change of Owner, Inventor, Applicant

Using the family based index of INPAFAMDB

Searching for US application published in 2004
and belonging to BAYER .

=> S BAYER/PASS AND US/PC(L)2004/PY

49728 BAYER/PA

49765 BAYER/PAS

13999 BAYER/LSPA

51600 BAYER/PASS

(BAYER/PA, PAS, LSPA)

7638000 US/PC

1513838 2004/PY

(2004/PY)

382403 US/PC(L)2004/PY

L1 1439 BAYER/PASS AND US/PC(L)2004/PY

=> S BAYER/PA,PAS (L) US/PC(L)2004/PY

L2 559 BAYER/PA,PAS (L) US/PC(L)2004/PY

=> S L1 NOT L2

L3 880 L1 NOT L2

Using the family based index of INPAFAMDB (2)

=> D FFAM.US

L3 ANSWER 1 OF 880 INPAFAMDB COPYRIGHT 2008 EPO/FIZ KA on STN

MEMBER 26

AN 35542150 INPAFAMDB
 TI Compounds with sulphonamide group and pharmaceutical compositions
 containing these compounds.
 TL English
 IN ELGER WALTER; HILLISCH ALEXANDER; HEDDEN ANNEMARIE; SCHWARZ
 SIGFRID; SCHOLLKOPF KLAUS
 INS ELGER WALTER, DE; HILLISCH ALEXANDER, DE; HEDDEN ANNEMARIE, DE;
 SCHWARZ SIGFRID, DE; SCHOLLKOPF KLAUS, DE
 PA ELGER WALTER; HILLISCH ALEXANDER; HEDDEN ANNEMARIE; SCHWARZ
 SIGFRID; SCHOLLKOPF KLAUS
 DT Patent
 PI **US** 20040014781 A1 **2004**0122

.....

Using the family based index of INPAFAMDB (3)

The search term BAYER comes from an EP legal status entry:

```

.....
PA      SCHERING AG
PAS     SCHERING AG, DE
DT      Patent
PI      EP 1294402          B1 20060111  German
PIT     EPB1 PATENT SPECIFICATION
DAV     20060111  printed-with-grant
STA     GRANTED
DS      R:  AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
AI      EP 2001-943329      A   20010508
AIT     EPA Patent application
.....

```

```

LEGAL STATUS  HIT
AN      35542150  INPAFAMDB
DN      23985629  INPADOCDB
20070314  EPRAP2          PATENT OWNER REASSIGNMENT (CORRECTION)
                        BAYER SCHERING PHARMA AKTIENGESELLSCHAFT
                        CHG Change of Owner, Inventor, Applicant
                        200711.....20070315

```

Date of Availability DAV

- In the field *Date of Availability* detailed information is given about the date of the availability (PD) and the type of publication.
Condensation of appr. 750 PK codes to 12 DAV entries.

PI	EP 1690978	B1 20060920	French
PIT	EPB1 PATENT SPECIFICATION		
DAV	20060920	printed-with-grant	
STA	GRANTED		

The text term is searchable in the field DAV

With =>**HELP DAV** you can see the definitions.

Date of Availability DAV (2)

gazette-reference	date of announcement of filed application in gazette
abstract-reference	date of separate publication of an abstract
supplemental-srep-reference	date of separate publication of a supplementary search report
gazette-pub-announcement	date of announcement of a granted application in a gazette
modified-first-page-pub	date of separate publication of a modified first page report
unexamined-not-printed-without-grant	date of making available to the public by viewing or copying on request, an unexamined document on which no grant has taken place on or before the said date
• • •	
printed-with-grant	date of publication by printing or similar process of document on which grant has taken place on or before the said date
• • •	

See => **HELP DAV**

Divide the DAV entries into granted patents and applications using new field **STA**

- Patent status field **/STA** has two possible values
 - **PRE-GRANT PUBLICATION**
 - **GRANTED**

and offers an easy way for detecting granted patents

```
=> S (H01J0037-34?/EPC NOT H01J0037-34/IPC) AND GRANTED/STA
L6          8 L5 AND GRANTED/STA
```

```
=> D STD IND
```

```
L6 ANSWER 1 OF 8 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
AN 53080300 INPADOCDB . . .
TI Magnetron-Sputterverfahren und Magnetron-Sputtervorrichtung.
TL German . . .
PI DE 112005001299          T5 20070503
DAV 20070503 printed-with-grant
STA GRANTED . . .
EPC H01J0037-34M2A; C23C0014-35D
```

Agenda

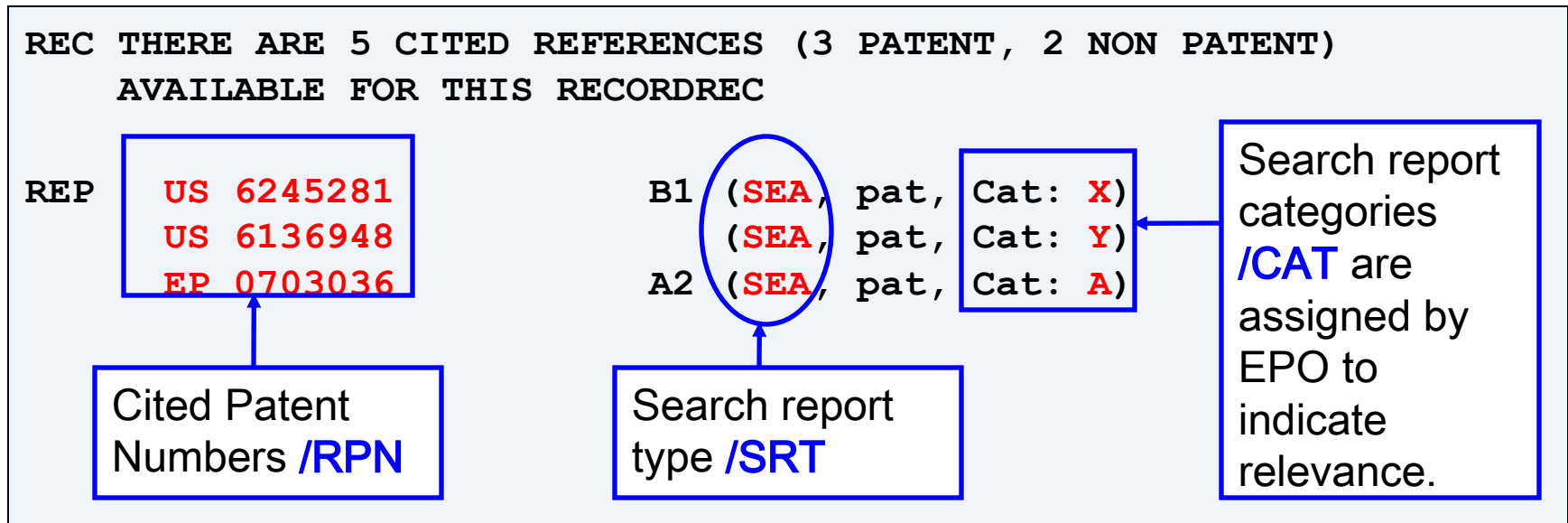
- Database content and record structures
- Text searching
- Classification searching
- Name searching
- **Citation searching**
- INPADOCDB/INPAFAMDB patent families
- Legal status searching
- SDI searching

INPADOCDB patent citations

- Cited references from 13 patent authorities including both patent and non-patent literature citations
- Citations from all searches made at the EPO for **EP, BE, CH, FR, GB, NL and TR**
- Cited references in publications from **US, WO, ES, JP, AU and DE**
- The EPO has included now their **REFI file** into the raw data

Patent citations sample display

from EP 1384565



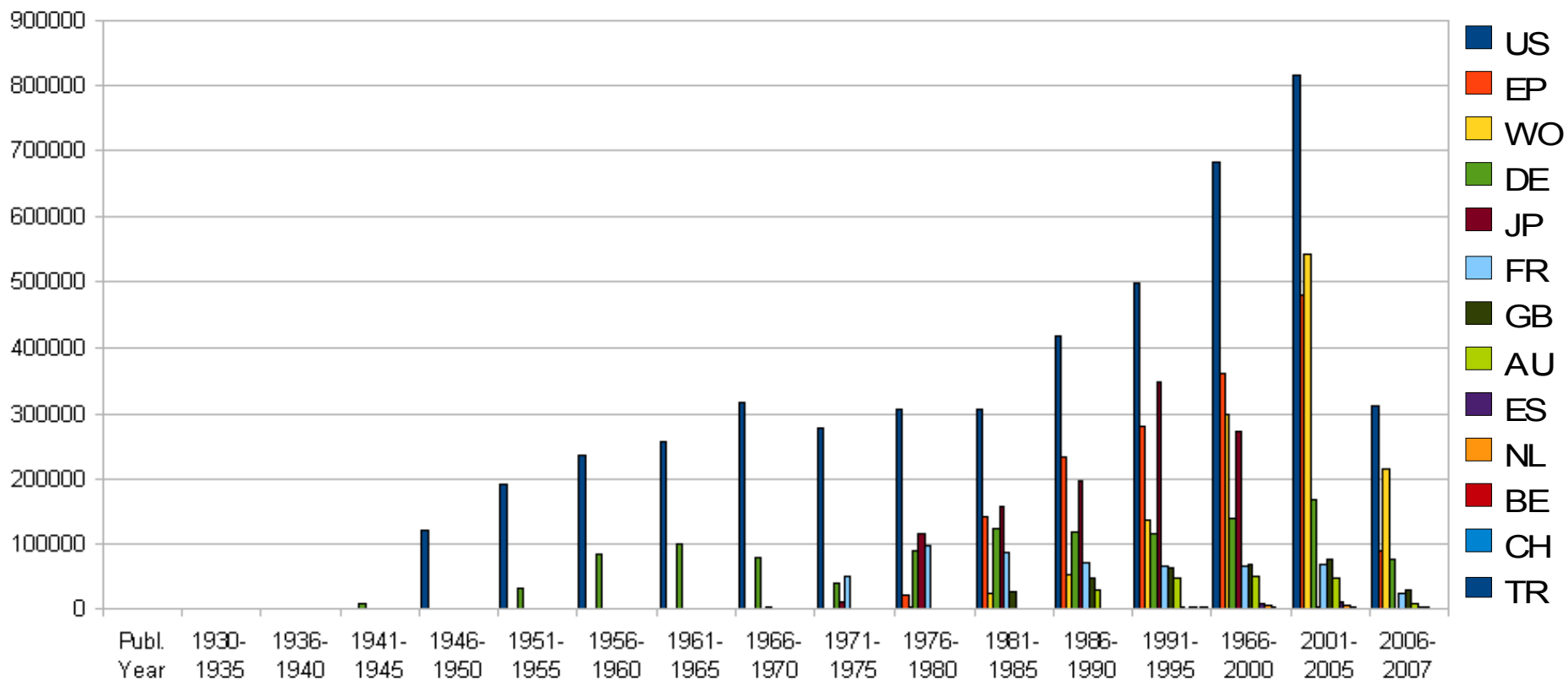
- Search Report Types /SRT
 - APP, SEA, EXA, OPP, 115
- Search Report Categories /CAT (see [HELP CAT](#))
 - A E L O P T X Y

Linked with (S)-proximity

Citation information: sample display

REP CA 2181598 (APP, pat) search report type /SRT
 DE 2435910 (APP, pat) search report category /CAT
 EP 0005265 (APP, pat)
 US 5798784 (SEA, pat, Cat: X)
 US 4942588 (SEA, pat, Cat: Y) cited patent numbers /RPN
 US 5900980 (SEA, pat, Cat: Y)
 US 5059013 (SEA, pat, Cat: Y)
 US 5897799 (SEA, pat, Cat: A)
 US 5643826 (SEA, pat, Cat: AD)
 JP 3226392 (SEA, npl, Cat: A) XP-numbers from EPO /REXP
 US 5835520 (115, pat)
 REXP XP000149459 (SEA, Cat: X)
 XP000482580 (SEA, Cat: X)
 REN HIROSHI TANAKA ET AL: "HIGH-EFFICIENCY, ALL-SOLID-STATE EXCITERS FOR
 HIGH-REPETITION-RATED, HIGH-POWER TEA CO2 LASERS" REVIEW OF SCIENTIFIC
 INSTRUMENTS, US, AMERICAN INSTITUTE OF PHYSICS, NEW YORK, vol. 61, no. 8, 1
 August 1990 (1990-08-01), pages 2092-2096, XP000149459 ISSN: 0034-6748
 DEGUCHI H ET AL: "EFFICIENT DESIGN OF MULTISTAGE MAGNETIC PULSE
 COMPRESSION" IEEE JOURNAL OF QUANTUM ELECTRONICS, vol. 30, no. 12, 1 December 1994 (1994-12-01), pages 2934-2938,
 XP000482580 ISSN: 0013-9197
 PATENT ABSTRACTS OF JAPAN vol. 015, no. 513 (M-1196), 26 December 1991
 (1991-12-26) & JP 03 226392 A (HITACHI LTD), 7 October 1991 (1991-10-07) cited non-patent literature /REN

INPADOCDB records with patent citations



Citation searching – example 1

Which Qiagen publications have been cited?

=> S QIAGEN/PA, PAS

L1 553 QIAGEN/PA, PAS

=> SEL PN

E1 THROUGH E553 ASSIGNED

=> S E1-553/RPN NOT QIAGEN/PA

L2 314 E1-553/RPN

=> D PA PI RE

PA ROCHE DIAGNOSTICS GMBH

PI WO 200044759 A1 20000803

REP WO 9521179 (SEA, pat, Cat: A)

WO 9521178 (SEA, pat, Cat: AD)

WO 9521177 (SEA, pat, Cat: AD)

WO 9308894 (SEA, pat, Cat: A)

WO 8907603 (SEA, pat, Cat: A)

US 4833239 (SEA, pat, Cat: A)

WO 9102740 (SEA, pat, Cat: A)

REXP XP004121166 (SEA, Cat: X)

.....

1. Company search for Qiagen.

2. Select publication numbers.

3. Search selected numbers as cited patent numbers in /RPN – but without self-citations.

4. Use RE field to display all reference information.

The cited Qiagen patent publication.

Citation searching – example 2

Which Qiagen publications have been cited as X documents?
(looking for competitors!)

=> S E1-553/RPN(S) X/CAT

=> D BIB RE

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

```

AN      24241641 INPADOCDB  ED 20061123  UP 20061123
TI      Synergistic liposomal adjuvants.....
IN      KONUR, ABDO, DR.; GRASER, ANDREAS
PA      PHARMEXA A/S
PI      EP 1550458          A1 20050706  English
AI      EP 2003-29801      A  20031223
PRAI   EP 2003-29801      A  20031223
REP     US 2003224010      A1 (SEA, pat, Cat: X)
        US 2003161834      A1 (SEA, pat, Cat: X)
        WO 03028656        (SEA, pat, Cat: X)
        EP 0356340         (SEA, pat, Cat: Y)
REXP   XP008034645        (SEA, Cat: X)
        XP000102991        (SEA, Cat: X)....
REN     RICHARDS R L ET AL: "LIPOSOMES LIPID A AND ALUMINUM HYDROXIDE
        ENHANCE THE IMMUNE RESPONSE TO A SYNTHETIC MALARIA SPOROZOITE".....
  
```

The Qiagen publication cited as an X document.

Agenda

- Database content and record structures
- Text searching
- Classification searching
- Name searching
- Citation searching
- **INPADOCDB/INPAFAMDB patent families**
- Legal status searching
- SDI searching

Enhancing the quality

- FIZ has set-up an editorial process to enhance the quality of INPADOCDB/INPAFAMDB especially for INPADOC family data
- Benefits
 - fast access to corrected data
 - more reliable identification of individual documents
 - more reliable and complete family information


INPADOCDB Family corrections

Types of errors

- errors in the original document
- errors caused during data processing
- singular errors (typos)
- serial errors

Detection of errors

- by users (internal, external)
- by routines that check input data against known standards

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 MFAM. <i>PC</i>	FFAM plus 1) all available abstracts 2) cited references
IFAM 	A COMBINATION of “indented” FAM and MFAM



Indented family display format (IFAM)

L1 ANSWER 1 OF 1 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN

TITLE: Laser-cuttable multi-layer sheet material.

PATENT FAMILY INFORMATION

AN 49180703 INPADOCDB

=> FILE INPADOCDB

=> S US6824849/PN

L1 1 US6824849/PN

=> D IFAM

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

AT 331773T	T	20060715
AU 2001081118	A	20020218
CA 2418954	A1	20020214
DE 60121190	D1	20060810
EP 1179577	A1	20020213
EP 1322719	A1	20030702
EP 1322719	B1	20060628
JP 2004506240	T	20040226
US 20030207062	A1	20031106
US 6824849	B2	20041130
WO 2002012411	A1	20020214

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

AT 2001-959579	T	20010806
AU 2001-81118	D	20010806
CA 2001-2418954	A	20010806
DE 2001-60121190	A	20010806
EP 2000-116953	A	20000807
EP 2001-959579	A	20010806
JP 2002-517704	T	20010806
US 2003-333704	A	20030123
WO 2001-US24653	W	20010806

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

EP 2000-116953	A	20000807
EP 2001-959579	A	20010806
WO 2001-US24653	W	20010806
US 2003-333704	A	20030123

1. Table of publication, application, and priority numbers.

IFAM display: United States section

```
+-----+
| UNITED STATES OF AMERICA (US) |
+-----+
```

Country header

```
-----
MEMBER 8
-----
```

ACCESSION NUMBER: 49180703 INPADOCDB Full-text
UP 20070105

TITLE: Laser-cuttable multi-layer sheet material.

TITLE LANGUAGE: English

INVENTOR(S) :

NON-STANDARD.: HERZOG SILKE; WEBER PETER

STANDARDIZED: HERZOG SILKE, DE; WEBER PETER, DE

PATENT ASSIGNEE(S) :

NON-STANDARD.: HERZOG SILKE; WEBER PETER

PATENT INFORMATION:

NUMBER	KIND	DATE

US 20030207062	A1	20031106

PATENT INFO. TYPE: USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]

DATE OF AVAILABILITY: 20031106 unexamined-printed-without-grant

PATENT STATUS: PRE-GRANT PUBLICATION

All information
in **IMAX** format

INPADOCDB Display fields for customized formats

Record-based (latest publication)	Record-based (all publications)	Family-based (all family members)
TI	TI.M	TI.F
PA	PA.M	PA.F
IN	IN.M	IN.F
PI	PI.M	PI.F
		TIPI.F
BIB	BIB.M	BIB.F
STD	STD.M	STD.F
ALL	ALL.M	ALL.F
MAX	MAX.M	MAX.F
.....		

All INPADOCDB bibliographic display fields and formats are available in these **three** versions.

Displays in INPAFAMDB

- All display formats of INPADOCDB are available in INPAFAMDB also!
- For patent families displays the **content** of fields can be **deduplicated**!

=> D PAS 8

```
L5      ANSWER 8 OF 210      INPAFAMDB COPYRIGHT 2008 EPO/FIZ KA on STN
PAS     DAIMLER CHRYSLER AG, DE
      - DAIMLER CHRYSLER AG
      - HABISREITINGER UWE, DE; NORDMANN BERNHARD, DE
```

=> D PAS.F 8

```
L5      ANSWER 8 OF 210      INPAFAMDB COPYRIGHT 2008 EPO/FIZ KA on STN
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE
PAS     DAIMLER CHRYSLER AG, DE; HABISREITINGER UWE, DE; NORDMANN BERNHARD, DE
PAS     DAIMLER CHRYSLER AG, DE; HABISREITINGER UWE, DE; NORDMANN BERNHARD, DE
```

6 priorities, 12 applications, 16 publications

INPAFAMDB deduplicated Displays

Deduplicated display for fields (eg. TI, INS, PAS, IPCI, ...)
and formats (BRIEF, ...)

=> D TI 20

L5 ANSWER 20 OF 210 INPAFAMDB COPYRIGHT 2008 EPO/FIZ KA on STN
 TI VERFAHREN UND VORRICHTUNG FUER DIE KREISSTEUERUNG DER KRAFT EINER
 BRENNKRAFTMASCHINE, DIE EIN FAHRZEUG TREIBT.
 - METHOD AND DEVICE FOR CLOSED-LOOP CONTROL OF THE POWER OF AN INTERNAL
 COMBUSTION ENGINE PROPELLING A MOTOR VEHICLE.
 - PROCEDE ET DISPOSITIF POUR COMMANDER PAR RETROACTION LA PUISSANCE D'UN
 MOTEUR A COMBUSTION INTERNE ENTRAINANT UN VEHICULE.
 - METODO Y DISPOSITIVO PARA EL CONTROL EN CIRCUITO CERRADO DE LA POTENCIA
 DE UN MOTOR DE COMBUSTION INTERNA QUE IMPULSA A UN VEHICULO A MOTOR.
 - PROCEDE ET DISPOSITIF DE COMMANDE EN BOUCLE FERMEE DE LA PUISSANCE D'UN
 MOTEUR A COMBUSTION INTERNE PROPULSANT UN VEHICULE AUTOMOBILE.

INPAFAMDB deduplicated Displays (2)

=> D TI.F 20

.F format displays content of all publications of a patent family

L5 ANSWER 20 OF 210 INPAFAMDB COPYR
 TI VERFAHREN UND VORRICHTUNG FUER DIE KRE
 BRENNKRAFTMASCHINE, DIE EIN FAHRZEUG TREIBT.
 TI VERFAHREN UND VORRICHTUNG FUER DIE KREISSTEUERUNG DER KRAFT EINER
 BRENNKRAFTMASCHINE, DIE EIN FAHRZEUG TREIBT.
 METHOD AND DEVICE FOR CLOSED-LOOP CONTROL OF THE POWER OF AN INTERNAL
 COMBUSTION ENGINE PROPELLING A MOTOR VEHICLE.
 PROCEDE ET DISPOSITIF POUR COMMANDER PAR RETROACTION LA PUISSANCE D'UN
 MOTEUR A COMBUSTION INTERNE ENTRAINANT UN VEHICULE.
 TI VERFAHREN UND VORRICHTUNG FUER DIE KREISSTEUERUNG DER KRAFT EINER
 BRENNKRAFTMASCHINE, DIE EIN FAHRZEUG TREIBT.
 METHOD AND DEVICE FOR CLOSED-LOOP CONTROL OF THE POWER OF AN INTERNAL
 COMBUSTION ENGINE PROPELLING A MOTOR VEHICLE.
 PROCEDE ET DISPOSITIF POUR COMMANDER PAR RETROACTION LA PUISSANCE D'UN
 MOTEUR A COMBUSTION INTERNE ENTRAINANT UN VEHICULE.
 TI METODO Y DISPOSITIVO PARA EL CONTROL EN CIRCUITO CERRADO DE LA POTENCIA
 DE UN MOTOR DE COMBUSTION INTERNA QUE IMPULSA A UN VEHICULO A MOTOR.
 TI PROCEDE ET DISPOSITIF DE COMMANDE EN BOUCLE FERMEE DE LA PUISSANCE D'UN
 MOTEUR A COMBUSTION INTERNE PROPULSANT UN VEHICULE AUTOMOBILE.
 TI PROCEDE ET DISPOSITIF DE COMMANDE EN BOUCLE FERMEE DE LA PUISSANCE D'UN
 MOTEUR A COMBUSTION INTERNE PROPULSANT UN VEHICULE AUTOMOBILE.
 TI Method and device for closed-loop control of the power of an internal
 combustion engine propelling a motor vehicle.
 TI METHOD AND DEVICE FOR CLOSED-LOOP CONTROL OF THE POWER OF AN INTERNAL
 COMBUSTION ENGINE PROPELLING A MOTOR VEHICLE.

2 priorities, 7 applications, 11 publications0

INPAFAMDB “BRIEF” FORMAT (default) (1)

=> D BRIEF

```

L2      ANSWER 6 OF 355      INPAFAMDB COPYRIGHT 2008 EPO/FIZ I
AN      10953655 INPAFAMDB UPFB 20071018
TI      SKID STEER LOADER VEHICLE.
-       VEHICULE DE CHARGEMENT A DIRECTION PAR GLISSEMENT.
-       BAGGERFAHRZEUG MIT RUTSCHLENKUNG.
-       VEHICULO CARGADOR DE DIRECCION DESLIZANTE.
-       Skid steer loader vehicle with front and rear ground propellers driven by
        transmissions for propelling and steering.
-       VEHICULE CHARGEUR COMPACT A DIRECTION PAR PATINAGE.
-       Skid steer loader.
INS     BAMFORD JOSEPH CYRIL, CH
-       BAMFORD JOSEPH CYRIL
PAS     BAMFORD JOSEPH CYRIL, CH
-       BAMFORD JOSEPH CYRIL
-       JCB SPECIAL PRODUCTS LTD
-       BAMFORD JOSEPH C
IPCI    E02F0009-20      [I,A ]; B60K0017-04      [I,A ]; E02F0009-08      [I,A ];
        E02F0003-34      [I,A ]; B62D0011-06      [I,A ]; E02F0009-20      [I,C*];
        B60K0017-04      [I,C*]; E02F0009-08      [I,C*]; E02F0003-28      [I,C*];
        B62D0011-06      [I,C*]
IPCR    B60K0017-04      [I,A ]; B60K0017-10      [N,A ]; B60K0017-342     [N,A ];
        B60K0017-356     [N,A ]; B62D0011-06      [I,A ]; B62D0021-18      [I,A ];
        B62D0049-02      [I,A ]; E02F0003-28      [I,A ]; E02F0003-34      [I,A ];
...

```

Default format:
 deduplicated fields
 TI, INS, PAS, IPCI,
 IPCR, EPC, 1 engl
 AB, PI/AI/PRAI
 table

INPAFAMDB "BRIEF" FORMAT (2)

...

B60K0017-10 [N,C*]; B60K0017-34 [N,C*]; B62D0011-06 [I,C*];
 B62D0021-18 [I,C*]; B62D0049-00 [I,C*]; E02F0003-28 [I,C*];
 E02F0009-08 [I,C*]; E02F0009-16 [I,C*]

EPC B60K0017-04; B62D0021-18C; B62D0049-02; E02F0003-28S; E02F0003-34P;
 E02F0009-08; E02F0009-16

AB (US 5964567 A)

A skid steer loader vehicle comprising a body having a front end and a rear end and provided with first and second ground engageable propulsion wheels respectively disposed on opposite sides of the vehicle and in which the first and second propulsion wheels are driven by first and second transmission systems respectively to permit the vehicle to be propelled and steered by driving the propulsion wheels on one side of the vehicle independently from the propulsion wheels on the other side of the vehicle, an operator's compartment and a boom assembly, the boom assembly having, at an outer end thereof, connecting structure for connecting a material handling implement to the boom assembly and an inner end of the boom assembly being pivotally mounted on the body, adjacent the rear end of the body, for movement between a raised position and a lowered position in which the boom assembly extends forwards alongside the operator's compartment and the material handling implement is disposed forward of the front end of the body and a transmission case, disposed on one side of the vehicle, having therein said first and second transmission systems.

PATENT FAMILY INFORMATION INPAFAMDB

...

INPAFAMDB "BRIEF" FORMAT (3)

PATENT FAMILY INFORMATION INPAFAMDB

+----- PUBLICATIONS -----+		+----- APPLICATIONS -----+	
CA 2269535	A1 19990304	CA 1998-2269535	A 19980819
CA 2269535	C 20061128		
DE 69809877	D1 20030116	DE 1998-69809877	A 19980819
DE 69809877	T2 20030424		
EP 932729	A1 19990804	EP 1998-946379	A 19980819
EP 932729	B1 20021204		
ES 2191338	T3 20030901	ES 1998-946379	T 19980819
FR 2767507	A1 19990226	FR 1998-3145	A 19980313
FR 2767507	B1 19991231		
GB 9717892	D0 19971029	GB 1997-17892	A 19970823
GB 9802685	D0 19980401	GB 1998-2685	A 19980210
GB 2328429	A 19990224		
GB 2328429	B 20001011		
JP 2001509225	T 20010710	JP 1999-513909	T 19980819
JP 3972962B	B2 20070905		
US 5964567	A 19991012	US 1998-21250	A 19980210
WO 9910606	A1 19990304	WO 1998-EP5263	W 19980819

+----- PRIORITIES -----+

WO 1998-EP5263	W 19980819
GB 1997-17892	A 19970823
GB 1998-2685	A 19980210

Other INPAFAMDB Display formats

There are formats to display deduplicated overviews, complete families, publications with hit terms, latest publications, and latest updates

Dedup. FAMILY	.F (=M)	.H	.P	.U
BIB	BIB.F	BIB.H	BIB.P	BIB.U
IBIB	IBIB.F	IBIB.H	IBIB.P	IBIB.U
STD	STD.F	STD.H	STD.P	STD.U
ALL	ALL.F	ALL.H	ALL.P	ALL.U
ALLO	ALLO.F	ALLO.H	ALLO.P	ALLO.U
IALL	IALL.F	IALL.H	IALL.P	IALL.U
IND	IND.F	IND.H	IND.P	IND.U
	MAX.F	MAX.H	MAX.P	MAX.U
	MAXO.F	MAXO.H	MAXO.P	MAXO.U
	IMAX.F	IMAX.H	IMAX.P	IMAX.U

- .F complete patent family
- .H of publications with HIT terms
- .P latest publication
- .U latest update

Formats with LS are not de-duplicated!

HIT-display formats in INPAFAMDB

Standard display fields and formats with a **.H**-extension (e.g. PA.H, BIB.H, ALL.H) display the **family members** with **HIT**-terms only

```
=> S FRUIT (W) JUICE (W) EXTRACT?
```

```
L6          272 FRUIT (W) JUICE (W) EXTRACT?
```

```
=> D BIB.H
```

```
-----
```

```
MEMBER 3
```

```
-----
```

```
AN      2363465 INPAFAMDB
```

```
TI      Improvements in and relating to fruit juice extractors.
```

```
PA      HERBERT FROMM
```

```
PAS     HERBERT FROMM
```

```
PI      GB 377846          A  19320804
```

```
AI      GB 1931-28134     A  19311009  ....
```

```
-----
```

```
MEMBER 4
```

```
-----
```

```
AN      2363465 INPAFAMDB
```

```
TI      Fruit juice extractor.
```

```
PAS     HERBERT FROMM
```

```
PI      US 1894858        A  19330117
```

```
AI      US 1931-538849   A  19310520  ....
```

BIB.H-format: the bibliography of the two family members with HIT-terms are displayed

Agenda

- Database content and record structures
- Text searching
- Classification searching
- Name searching
- Citation searching
- INPADOCDB/INPAFAMDB patent families
- **Legal status searching**
- SDI searching

Legal status searching

- Legal status data are available for **51** patent authorities for about **15,7** million records
- Legal status information is searchable with over **2,600** legal status codes (**LSC, LSTX**)
- Great variety of search and display options, e.g.

applicant reassignment
opponent
legal effect date

LSPA
LSOP
LSDF

New legal status code categories

- Complex set of legal status codes is difficult to use for legal status searching
 - code definitions may change over time
 - New codes are introduced
 - comprehensive searches require sophisticated strategies and deep understanding of various granting procedures
- **Legal status code categories** provide an easy access to more than **1.300** specific legal status code information
 - reliable and easy to use legal status search tool
 - well applicable to specific legal status monitoring
 - new codes and code definition revisions will be reviewed and included by the FIZ editorial

New STN-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 INPADOCDB SPC coverage is provided at:
http://www.european-patent-office.org/inpadoc/faq/spc_cov.htm

Please, use **NIF** always together with **REI**

L6 ANSWER 2 OF 85996 INPADOCDB COPYRIGHT 2007 EPO/FIZ K

LEGAL STATUS

AN 53481896 INPADOCDB

19940615 ATRER - CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT
TREATIES

NIF Lapses, Expiries, Withdrawals, Refusals

.....20070802

19941215 ATEEWE + AUTHORIZATION FOR RESTITUTION

REI Reinstatement or Restoration

.....20070802

19950215 ATUEP + PUBLICATION OF TRANSLATION OF EUROPEAN PATENT
SPECIFICATION

.....20070802

19980315 ATREN - CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE

NIF Lapses, Expiries, Withdrawals, Refusals

.....20070802

19990715 ATA1J - WITHDRAWAL PARAGRAPH 166 LIT. 6

NIF Lapses, Expiries, Withdrawals, Refusals

.....20070802

L6 ANSWER 3 OF 85996 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN

LEGAL STATUS

AN 53481681 INPADOCDB

20050815 ATA1J - WITHDRAWAL PARAGRAPH 166 LIT. 6

NIF Lapses, Expiries, Withdrawals, Refusals

.....20070802

20061115 ATA1WE + CONCESSION OF RESTITUTION

REI Reinstatement or Restoration

200647.....20070802

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

The history is
important!

Agenda

- Database content and record structures
- Text searching
- Classification searching
- Name searching
- Citation searching
- INPADOCDB/INPAFAMDB patent families
- Legal status searching
- **SDI searching**

INPADOCDB record- and family-based update codes have been enhanced

	Record	Family
New family ("basic")	-	EDF
New record (MEMBER)	EDP	UPFD
New document (publication)	ED	UPFP
Update to bibliography	UP	UPFB
-Update to classifications	UPCC	-
-Update to all other bib.	UPBB	-
Update to legal status	UPLS	UPFL
New document or LS	EDLS	UPFE
All updates (any changes)	UPM	UPFA



Use *Record* update codes to track changes to individual documents

Use *Family* update codes to track changes to all patent family members

Linked SDI: Lapses, expiries, withdrawals or refusals (NIF) of CIBA publications

	=> S	CIBA/PASS AND NIF/LSC2 (L) UPLS/LAST	Link this Legal Status Entry to the last update.
=> S L1	L1	6334 CIBA/PASS AND NIF/LSC2	
	=> SDI		
		
L1	=> D HIT		
PI	L1	ANSWER 1 OF 21	INPADOCDB COPYRIGHT 2008 EPO/FIZ KA on
PA	STN		
PAS	PA	CIBA SPECIALTY CHEMICALS HOLDING INC.	PATENT DEPARTEMENT
	PAS	CIBA SC HOLDING AG, CH	
LEGAL	LEGAL	STATUS	HIT
AN	AN	55625055	INPADOCDB
2007	20080326	EP18W	- WITHDRAWN
			20080219
			NIF Lapses, Expiries, Withdrawals, Refusals

Result of an SDI

Family SDI Display Formats

Corresponding to the specific update codes

- Weekly Family SDI:

display formats FFAMED, **IFAMED**, FFAMUP, **IFAMUP**, LFAMUP plus their country (.PC) dependent formats displays the **changed data of the current update** for a patent family

- Monthly Family SDI:



monitoring of changes together with **new display formats** **FFAMED4**, **IFAMED4**, **FFAMUP4**, **IFAMUP4**, and **LFAMUP4**

Field changes from the latest update are indicated in **CHG / CHG.M**

- Indicators

- A amend (modified)
- C create (new)



CHG ABEN **A**; IPC **C**; AIOR **A**; DS **A**

Indicates:	English Abstract	<i>AMEND / MODIFIED</i>
	IPC	<i>CREATE / NEW</i>
	Original Application Information	<i>AMEND / MODIFIED</i>
	Designated States	<i>CREATE / NEW</i>

INPADOCDB/INPAFAMDB: When to use which file











INPADOCDB (application file)	INPAFAMDB (family file)
Search for specific applications/ publications	Technology overview (combines the content of all applications of a patent family in 1 record and allows searching across applications)
Specific legal status search and display	Overview of legal aspects
Monitoring of applications	Company/Inventor overview
	Search for new inventions
FSEARCH/FSORT	- not necessary -
	allows easier identification of full-text publications of the same patent family in multifile searches
Country specific searches and analyzes	better invention based statistics (1 invention =1 record(DOC))
	Deduplication in BRIEF format(default) and single display fields
	Crossfile searching for Family SDI's with CAPLUS and WPI

INPADOCDB/INPAFAMDB web page

INPADOCDB / INPAFAMDB

INPADOCDB / INPAFAMDB

◆ **NEW!** INPADOCDB/INPAFAMDB News:

- ◆ New companion file to INPADOCDB: INPAFAMDB (2008/05) 
- ◆ Amendment of the Swiss Patent Law (2008/4) 
- ◆ Legal Status changes for EP (revised 2008/2) 
- ◆ Learning File LINPADOCDB: release 03.12.2007 
- ◆ New and improved post grant in the EP legal status updated (2007/11) 
- ◆ INPADOCDB Workshop Manual (25/04/08) 
- ◆ INPADOCDB_ INPAFAMDB STN User Meeting (05/08) 
- ◆ INPADOCDB on STN: New Features and Enhanced Content (07/07) 
- ◆ Making the Difference – Enhancing the Quality of First Level Patent Data (03/07) 
- ◆ **NEW!** INPADOCDB INPAFAMDB auf STN Handbuch (05/08) 

STN International has released two patent files based on the new raw data of DOCDB from the European Patent Office (EPO) together with the INPADOC legal status data:

INPADOCDB (International **PA**tent **DOC**umentation **Data Base**)
INPAFAMDB (International **PA**tent **FAM**ily **Data Base**)

Data source and content are the same for both files, but for INPAFAMDB all data belonging to one invention (one family) are indexed as one record, while for INPADOCDB all publications from one authority for one application are indexed as one record. In short, INPAFAMDB's records are invention- (family-) based, INPADOCDB's records are application-based.

The new files offer a lot of new and enhanced content:

- ◆ about 65 million documents in 36 million patent families
- ◆ more backfile data (14 million documents) back to 1836(US), 1879(DE), 1840(GB), 1900(FR), 1944(JP), etc.
- ◆ many more abstracts, mostly in English,
- ◆ cited references (patents and non-patent literature) for 13 offices. Citations from all searches made at the EPO for BE, CH, EP, FR,GB, NL, TR and all WO are loaded as well as data from AU, DE, ES, JP and US,
- ◆ comprehensive European patent classifications (ECLA, ICO, IDT),
- ◆ many original bibliographic data and abstracts,
- ◆ introduction of legal status code categories.

New!

STN[®]

INPADOCDB News

(01/2008_1)

The EPO has made changes in the text for the legal status codes:

EPC 2000 in force: changes in EP legal status codes

Since the rule numbers have changed with the introduction of the European Patent Convention 2000 (EPC 2000) which came into force on 13 December 2007, the EPO has amended the affected legal status codes. The rules are numbered differently in EPC 2000 compared to the former EPC. Therefore, the references to the rule numbers would have been ambiguous.

Instead of references to the rule numbers, the EPO INPADOC legal status data codes will contain the relevant words of the previously quoted rule.

Here below are the changes since week 2007/50

New text entries for the following LEGAL STATUS CODES:
 =====

EPR19A		STAY OF PROCEEDINGS (CORRECTION) [BEFORE GRANT]
EPR19F	+	THE RESUMPTION OF A PREVIOUS INCORRECT ANNOUNCEMENT OF A STAY OF PROCEEDINGS (CORRECTION) [BEFORE GRANT]
EP19A	-	DATE OF STAY OF PROCEEDINGS [BEFORE GRANT]
EP19F	+	DATE OF RESUMPTION (AFTER STAY OF PROCEEDINGS) [BEFORE GRANT]
EP19U	-	DATE OF INTERRUPTION (INTERRUPTION OF PROCEEDINGS) [BEFORE GRANT]
EP19W	+	DATE OF RESUMPTION (AFTER INTERRUPTION OF PROCEEDINGS) [BEFORE GRANT]
EPD19F	+	PREVIOUSLY ANNOUNCED "RESUMPTION AFTER INTERRUPTION OF PRO-

Summary

- The reloaded INPADOC files provide an **extensive bibliographic backfile** for retrieving old patent literature
- **INPADOCDB/INPAFAMDB** offer substantially **more abstracts** allowing for more effective keyword searching
- Technology searching is more comprehensive due to the **enhanced (ECLA)** and **new patent classifications ICO, IDT**
- The **legal status code categories LSC2** provide an easy access to specific legal status information
- **Cited references** are available from 13 major patent offices
- **Data Correction** by FIZ editorial
- Learning files **LINPADOCDB** and **LINPAFAMDB** are available now!
- **INPAFAMDB** released end of May 2008

