

STN[®]

Boldly Go
Where No Patent Searcher Has Gone Before:
The New INPADOCDB on STN[®]

FIZ Karlsruhe

Agenda

- Database content
- Technology searching
- Name searching
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching

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INPADOC reloaded, enhanced, and renamed as INPADOCDB on STN®

- INPADOC and the Documentation Database (DOCDB) form the basis of the new file
 - INPADOCDB = INPADOC + DOCDB
- Produced by the European Patent Office (EPO)
- New search functionality and enhanced content compared to INPADOC
- Existing INPADOC search and display features are preserved in INPADOCDB
- INPADOCDB on STN was released April 29, 2007

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INPADOCDB database content

- Bibliographic and patent family information for 80 patent authorities from the mid-1800's
- Applicant abstracts for 42 patent authorities
- Classification codes include reformed IPC, ECLA, NCL, ICO, IDT
- Legal status for 48 patent authorities from 1978
- Cited references from 12 patent authorities
- More than 63 million documents
- Updated weekly

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An INPADOCDB database record has the same logical structure as in INPADOC

- All patent publications issued by the same authority for a single patent application number form one INPADOCDB record, which comprises a national family
- A single INPADOCDB record combines the bibliographic and legal status data for the national family

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Content of an INPADOCDB record

- Bibliographic Data **BIB**
- Abstract(s) **AB**
- Cited References **RE**
- Classification(s) **IND**
- Legal status **LS**

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INPADOCDB record

Record

BIB	AN	24075775 INPADOCDB ED 20061122 UP 20061122
AB	TI	AB A process of fabricating aerospace parts using selective
IND	IC.V	7
RE	TL	ICM
LS	IN	REP US 6245281 B1 (SEA, pat, Cat: X) US 6136948 (SEA, pat, Cat: X)
	INS	LEGAL STATUS AN 24075775 INPADOCDB 20040128 EPAK + DESIGNATED CONTRACTING STATES: EP A1 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 20040128 EPAK + EXTENSION OF THE EUROPEAN PATENT TO AL LT LV MK 20040407 EP17P + REQUEST FOR EXAMINATION FILED 20040205 20041020 EPAKX EXA Examination, Search Report + PAYMENT OF DESIGNATION FEES AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU E IT LI LU MC NL PT RO SE SI SK TR20070117
	PA	EPC
	PAS	ICO
	DT	IDT
	PI	
	PIT	
	DAV	
	STA	
	DS	AL AS
	FA	ABDE ABFR ABES

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Reading an INPADOCDB record

BIB for EPA1

=> D MAX

Publications are listed in **publication date order**.

```

L3 ANSWER 1 OF 1 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
AN 23821315 INPADOCDB UP 20061122
TI Colourless, highly transparent Polyamide blends with improved . . .
TL German; English; French
IN BUEHLER, FRIEDRICH SEVERIN, DR.RER.NAT.,DIPL.-CHEM.
INS BUEHLER FRIEDRICH SEVERIN DR R, CH
PA EMS-CHEMIE AG
PAS EMS CHEMIE AG, CH
. . .
PI EP 1130059 A1 20010905 German
PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT
DAV 20010905 examined-printed-without-grant
STA PRE-GRANT PUBLICATION
DS R: DE GB IT NL
AI EP 2001-104187 A 20010221
AIT EPA Patent application
PRAI DE 2000-10009756 A 20000301 (DEA)
PRAIT DEA Patent application
    
```


The MAX format includes full bibliographic details for all publication stages, plus any Legal Status information.

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Reading an INPADOCDB record RE and IND for EPA1

```

REP  US 5886087  (SEA, pat, Cat: A)
EP  0659836      Al (SEA, pat, Cat: A)
GB  1019348      (SEA, pat, Cat: A)
DE  2150678      Al (SEA, pat, Cat: A)

IC.V  7
ICM  C08L-0077-02
ICS  C08K-0003-32; C08K-0005-49; C08L-0077-06
IPCR  G02B-0001-04 [I,A]; B65D-0065-02 [I,A]; C08G-0069-02 [I,A];
      C08J-0005-00 [I,A]; C08K-0005-49 [I,A]; C08L-0077-00 [I,A];
EPC  C08L0077-00+BN4; C08L0077-06+BN4
ICO  M08L0077:00; M08L0077:02; M08L0077:06

AB  Phosphorus compounds are added to amorphous and partially crystalline, highly
    transparent polyamide blends and improved tension crack resistance towards
    isopropanol (greater than 60 MPA) is obtained. Colorless, highly transparent
    polyamide composition comprises (weight%) (1) a polyamide (I)
    . . .
AL   English
AS   EPO
FA   AB; AI; AN; DAV; DS; DT; EPC; ICM; ICO; ICS; IN; INS; IPC; IPCR; LA;
     PA; PAS; PI; PIT; PRAI; REP; TI
  
```

More information on citations later.

IPC, Reformed IPC, ECLA, ICO.

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Reading an INPADOCDB record BIB and IND for EPB1

```

AN  23821315 INPADOCDB UP 20061122
TI  Colourless, highly transparent Polyamide blends with
    resistance to stress-cracking . . .
TL  German; English; French
IN  BUEHLER, FRIEDRICH SEVERIN, DR.RER.NAT.,DIPL.-CHEM.
INS  BUEHLER FRIEDRICH SEVERIN DR R, CH
PA  EMS-CHEMIE AG
PAS  EMS-CHEMIE AG, CH
DT  Patent
PI  EP 1130059          Bl 20021127  German
PIT  EPB1 PATENT SPECIFICATION
DAV  20021127  printed-with-grant
STA  GRANTED
DS  R:                DE GB IT NL
AI  EP 2001-104187     A  20010221
AIT  EPA Patent application
PRAI DE 2000-10009756  A  20000301  (DEA)
PRAIT DEA Patent application
IC.V  7
ICM  C08L-0077-02
ICS  C08K-0003-32; C08K-0005-49; C08L-0077-06
IPCR  G02B-0001-04 [I,A]; B65D-0065-02 [I,A]; C08G-0069-02 [I,A];
      C08J-0005-00 [I,A]; C08K-0005-49 [I,A]; C08L-0077-00 [I,A]; . . .
EPC  C08L0077-00+BN4; C08L0077-06+BN4
ICO  M08L0077:00; M08L0077:02; M08L0077:06
  
```

2nd publication is EPB1.

Each publication stage has the same application information.

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Reading an INPADOCDB record LS for EP National Family

LEGAL STATUS	
AN 23821315	INPADOCDB
20010905 EPAK	+ DESIGNATED CONTRACTING STATES: EP A1 DE GB IT NL
20010905 EPAK	+ DESIGNATED CONTRACTING STATES: EP A1 AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
20010905 EPAX	+ EXTENSION OF THE EUROPEAN PATENT TO AL;LT;LV;MK;RO;SI
20010905 EP17P	+ REQUEST FOR EXAMINATION FILED 20010221
20020102 EP17Q	EXA Examination, Search Report + FIRST EXAMINATION REPORT 20011119
20020522 EPAKX	EXA Examination, Search Report + PAYMENT OF DESIGNATION FEES DE GB IT NL
20021127 EPAK	+ DESIGNATED CONTRACTING STATES: EP B1 DE GB IT NL
...	

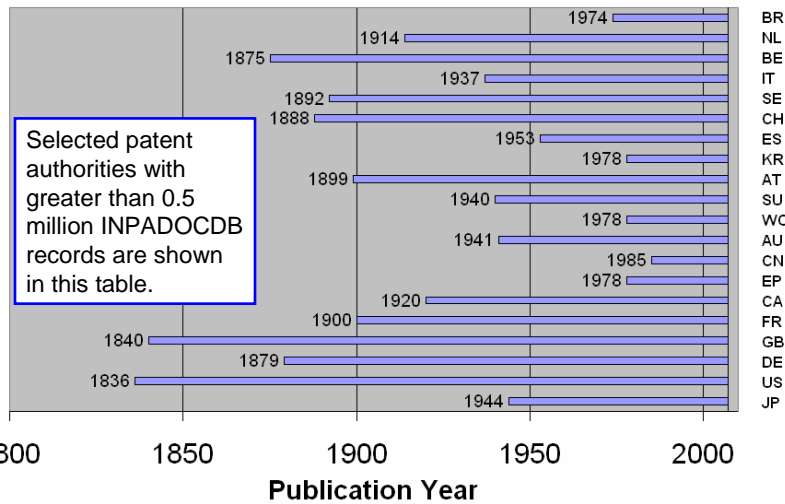
Legal Status is included in the MAX format.

More information on legal status later.

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INPADOCDB coverage begins much earlier than INPADOC



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Typical new backfile record

ACCESSION NUMBER:	4669237 INPADOCDB	ED 20061101	IP 20061101
TITLE:	Welding of ethylene polymer articles.		Author title.
PATENT ASSIGNEE(S):	E. I. DU PONT DE NEMOURS AND CO.		
ORIGINAL:	DU PONT		
STANDARDIZED:	NUMBER		
PATENT INFORMATION:	KIND	DATE	Patent assignees.
	-----	-----	
	GB 567360	A 19450212	
APPLICATION INFO.:	GB 1943-9638	A 19430616	
PRIORITY APPLN. INFO.:	US 1942-567360X	A 19420617	
IPC RECLASSIF. (ADV):	B29C0065-00 [I,A]; B29C0065-10 [I,A]		IPC codes.
IPC RECLASSIF. (CORE):	B29C0065-00 [I,C*]; B29C0065-10 [I,C*]		
EUR. PATENT CLASSIF.:	B29C0065-00S4; B29C0065-10B		ECLA codes.
ICO CLASS.:	L29C0065-10B; L29C0223-04; L29C0223-04B;		ICO codes.
ABSTRACT (ENGLISH):	Bodies comprising fusible polyethylene of molecular weight above 6000 are autogenously welded by bringing the bodies into contact and applying a flame to contiguous surfaces. Examples describe (1) wrapping of sheet of		Author abstract.

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More than double the author abstracts:

more than 11 million from 42 patent authorities
(22% of file)

Patent Country	Number	Language
EP	0.97 mil	DE/EN/FR
GB	1.97 mil	EN
US	4.09 mil	EN
DE	0.78 mil	DE/EN
FR	0.53 mil	FR
WO	1.07 mil	EN/DE/FR/ES/other
CA	0.83 mil	EN/FR
CN	0.32 mil	EN

English abstracts of GB-publications are available back to 1893.

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Standard formats **ALL**, **MAX**, and **MAXO** include all available abstracts

- **MFAM** format includes all abstracts for entire patent family
- Various display fields are provided for abstracts in different languages
 - AB (=ABEN)** Abstract in **English**
 - ABDE** Abstract in **German**
 - ABFR** Abstract in **French**
 - ABES** Abstract in **Spanish**
 - ABOL** Abstract in **other language**
- Use abstract fields for customized display
e.g. => **D BIB AB LS**

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Create custom displays using various abstract fields

AB The invention relates to wood siding for e Abstract in English: **ABEN**
The inventive siding comprises multiple wood battens which are fixed
with clamps or other elements to a support frame which is, in turn,
fixed to the surface to be covered. The invention is characterised in
that the . . .

ABES El revestimiento comprende multiples listos Abstract in Spanish: **ABES**
mediante grapas u otros elementos sobre un armazon de soporte fijado
a la superficie a recubrir y se caracteriza porque los bordes de los
lados mayores de los listones son parcialmente asimetricos
presentando una . . .

ABFR L'invention concerne un revetement en bois Abstract in French: **ABFR**
interieurs comprenant plusieurs lattes en bois fixees a l'aide de
pincas ou d'autres elements sur l'ossature de support fixee a la
surface a recouvrir. Ce revetement se caracterise par le fait que les
bords des faces principales

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- Database content
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- Patent families
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Not just for patent families and legal
status...anymore!

- Original abstracts for 22% of the file
- Original titles for 81% of the ENTIRE file
(to about 1893) or 91% from 1968 on

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Text and IPC searching in the new backfile: wind turbine publications before 1970

```

=> S F03D/IPC
L1 25931 F03D/IPC

=> S WIND#(2A)TURBIN? OR WIND(W)(POWER OR ENERGY)(W)(PLANT#
OR SYSTEM OR GENERAT? OR INSTALL?)
L2 3107 WIND#(2A)TURBIN? OR WIND(w)(POWER OR ENERGY)(W)(PLANT# OR ....

=> S ?WINDENERGIEANLAG? OR ?WINDTURBIN? OR (EOLIEN? OR
VENT#)(2A)TURBIN?
L3 558 ?WINDENERGIEANLAG? OR ?WINDTURBIN?

=> S (L1 OR L2 OR L3) AND PY<1970
L3 2157 (L1 OR L2 OR L3) AND PY<1970

=> D TI 1-
L4 ANSWER 1 OF 2157 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
TI WIND DRIVEN GENERATOR.

L4 ANSWER 2 OF 2157 INPADOCDB COPYRIGHT
TI CONTROL MEANS FOR AIR DRIVEN TURBINES.

```

Use patent classifications for technology searching.

Use multiple languages for more comprehensive retrieval.

Limit search result to publication year < 1970.

Display titles free of charge for a fast relevance check.

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Text and IPC searching in the new backfile: wind turbine publications before 1970

```

=> D ALL
L4 ANSWER 1 OF 2157 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
TI Improvements in wind power plants.
PA ALLGAIER WERKZEUGBAU G.M.B.H.
PAS ALLGAIER WERKZEUGBAU G M B H
PI GB 730060 A 19550518
AI GB 1952-32200 A 19521219
PRAI DE 1951-730060X A 19511221
IPCR F03D0007-02 [I,A]
F03D0007-00 [I,C*]
EPC F03D0007-02D
ICO R05B0260-74; R05B0260-76; R05B0260-77; R05B0270-506
AB 730,060. Wind-motors. ALLGAIER WERKZEUGBAU GES. Dec. 19, 1952 [Dec.
21,1951; July 26, 1952], No. 32200/52. Class 110 (3). A wind power
plant with variable-pitch vanes embodying means for increasing the
starting moment comprises an initially stressed spring which is
adapted to swing the vanes, when at rest, through a small angle about
their axes and means operatively associated with said spring for
additionally stressing

```


Display relevant answers in display format ALL.

Reformed IPC reclassification data allow for better retrieval of old patent publications.

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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,...

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International Patent Classifications (IPC)

- In-depth classification system assigned by patent offices around the world
 - Unified system for all patent documents worldwide
 - Used to establish patentability of patent applications
- Administered by WIPO
 - Based on the Strasbourg Agreement of 1971
 - Patent Cooperation Treaty (PCT) signatory authorities must classify patent publications using IPC codes
- 7 editions prior to IPC Reform (1968-2005)
 - 5 level hierarchy covering all technologies
 - Top level split into 8 sections (A-H)

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IPC is searchable in patent databases to various named levels of detail

- Section
=> **S E!!!! /IPC** Fixed Construction
- Class
=> **S E01! /IPC** Construction of roads, railways, etc.
- Subclass
=> **S E01D /IPC** Construction of bridges, viaducts, etc.
- Group
=> **S E01D0019 /IPC** Construction elements for bridges
- Subgroup
=> **S E01D0019-12 /IPC** Fastening railway tracks to bridges

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Main features of IPC reform

- A new two level scheme
 - Core for smaller patent offices
 - Advanced for larger patent offices
- Backfile reclassification
 - Worldwide Master Classification Database (MCD) created and maintained by the EPO
 - Backfile reclassification for pre-2006 documents
 - All documents subject to on-going reclassifications
 - MCD made available to patent information vendors
- More frequent revisions

See www.stn-international.com/stndatabases/details/ipc_reform.html

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Authorities in INPADOCDB and DWPI which assign IPC's at the Core level

Authority	Code	DWPI	INPADOCDB
Belgium	BE	✓	✓
Algeria	DZ		✓
Ireland	IE	✓	✓
Iceland	IS		✓
Kenya*	KE		✓
Lithuania	LT		✓
Mongolia	MN		✓
Malawi	MW		✓
New Zealand	NZ	✓	✓
Singapore*	SG	✓	✓
Slovenia	SI		✓
Slovakia	SK	✓	✓
Ukraine*	UA		✓

(* Core/Advanced authorities)

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IPC Core and Advanced levels

Advanced level

G02C SPECTACLES

- 5/00** Constructions of non-optical parts
- 5/02 . Bridges; Browbars; Intermediate bars (nose-engaging surfaces 5/12)
- 5/04 . . with adjustable means
- 5/06 . . with resilient means
- 5/08 . . foldable
- 5/10 . . Intermediate bar or bars between bridge and side-members
- 5/12 . Nose pads; Nose engaging surfaces of bridges or rims
- 5/14** . Side-members
- 5/16 . . resilient or with resilient parts
- 5/18 . . reinforced
- 5/20 . . adjustable, e.g. telescopic
- 5/22** . Hinges (pivotal connection in general F 16 C 11/00)

Core level

G02C SPECTACLES

- 5/00** Constructions of non-optical parts
- 5/14 . Side-members
- 5/22 . Hinges (pivotal connection in general F 16 C 11/00)

From January 2006, many patent offices assign IPCs at the *Advanced Level*, while others assign IPCs at the *Core Level*.

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IPC Attributes		Attribute	Abbreviation
Attributes for IPC 1-7	}	MAIN	ICM
		SECONDARY	ICS
		ADDITIONAL	ICA
		INDEX	ICI
Status of the IPC codes	}	INITIAL	IPCI
		RECLASSIFIED	IPCR, R
		CURRENT	CUR
		ORIGINAL	O
Assigning Patent Office		Patent Office (Code)	EP,DE,US,..
IPC Reform Level	}	CORE	C
		ADVANCED	A
		SUBCLASS	S
Position of the IPC code	}	FIRST	F
		LATER	L
Significance of the IPC code	}	INVENTION	I
		NON-INVENTION	N
Method of assignment	}	HUMAN	-
		MACHINE	-
		SOFTWARE	-
		ROLLED UP CORE	RC*

(* Assigned by STN)

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IPC codes from all editions are searchable in either pre or post-reform IPC format

- **/IPC** is the IPC super search field
 - => **S H01J0037-04 /IPC** (Reform format)
 - => **S H01J037-04 /IPC** (pre-Reform format)
- **/IPC.KW** is the IPC attributes (keyword) field
 - Use the **(S)** operator to link codes with attributes
 - => **S H01J0037-32 /IPC (S) INVENTION/IPC.KW**
- Range searching is based on the IPC thesaurus
 - Use either colon (:) or dash (-) to indicate a range
 - => **S G02C0005-14:G02C005-20 /IPC**

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STN provides the hierarchical structure of IPC codes as an online IPC thesaurus

- The IPC thesaurus features relationship codes useful for browsing and searching
 - IPC Reform CORE and ADVANCED codes
 - Broader (BT) and narrower (NT) terms
- See HELP THESAURUS and RCODE

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Find relevant IPC codes by analysing the results of a broad text search

```

=> FILE INPADOCDB
=> S SPUTTERING CATHODE
L1          343 SPUTTERING CATHODE
           (SPUTTERING(W)CATHODE)

=> SET ICFORMAT ON
SET COMMAND COMPLETED

=> ANALYZE L1 IPC 1-
L2          ANALYZE L1 1- IPC :      194 TERMS

=> D TOP 5
L2          ANALYZE L1 1- IPC :      194 TERMS

TERM #    # OCC  # DOC  % DOC  IPC
-----
   1      293   211   61.52 H01J0037-34
   2      219   210   61.22 H01J0037-32
   3      420   186   54.23 C23C0014-34
   4      401   183   53.35 C23C0014-35
   5      110    53   15.45 C23C0014-36
  
```

The INPADOCDB file provides author abstracts and titles for 42 patent authorities.

SET ICFORMAT ON ensures that pre-Reform IPC codes are the same length as modern IPC Reform codes, providing consistent analysis throughout the backfile.

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Review IPC descriptions using the online IPC thesaurus

```

=> E H01J0037-32+HIE/IPC
E1      2   BT4  H0/IPC
E2     769  BT3  H01/IPC
          BASIC ELECTRIC ELE
E3    489924 BT2  H01J/IPC
          ELECTRIC DISCHARGE TUBES OR DISCHARGE LAMPS....
E4     1770 BT1  H01J0037-00/IPC
          Discharge tubes....
          CORE
          VALID FROM 19680901 TO PRESENT ( IPC EDITION: 1-8 )
E5     25540 --> H01J0037-32/IPC
          . Gas-filled discharge tubes....
          CORE
          VALID FROM 19680901 TO PRESENT ( IPC EDITION: 1-8 )
E6     7041 NT1  H01J0037-34/IPC
          . . operating with cathodic sputtering
          ADVANCED
          VALID FROM 19680901 TO PRESENT ( IPC EDITION: 1-8 )
E7     172  NT1  H01J0037-36/IPC
          . . for cleaning surfaces while plating....
          ADVANCED
          VALID FROM 19800101 TO PRESENT ( IPC EDITION: 3-8 )
***** END *****

```

The CORE and ADVANCED relationships are clearly marked.

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Use both Advanced and Core IPC's

```

=> FILE INPADOCDB
=> E H01J0037-34+CORE/IPC
E1     6967 --> H01J0037-34/IPC
E2    25146 CORE H01J0037-32/IPC
***** END *****

=> S H01J0037-34+CORE/IPC
L3    25396 H01J0037-34+CORE/IPC (2 TERMS)

=> D IPC
L3    ANSWER 1 OF 25396 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
IPCI  H01J0037-36 [I,A]; H01J0037-32 [I,C*]

=> S H01J0037-34+CORE/IPC (NOTS) RC/IPC.KW
L4    25299 H01J0037-34+CORE/IPC (NOTS) RC/IPC.KW

=> D IPC
L4    ANSWER 1 OF 25299 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
IPCI  H01J0037-32 [I,A]; H01J0037-32 [I,C*]

```

Searching a core code retrieves both intellectually indexed CORE codes, and rolled-up core codes.

Rolled-up core (RC) codes are marked with an asterisk (*).

Exclude RC's using (NOTS) proximity.

An intellectually assigned core code answer.

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ECLA and ICO classifications

- Assigned by EPO
- ECLA = IPC
 - + EPO subdivisions
 - + EPO text additions in IPC groups
 - + IPC groups/amendments not yet introduced
 - + IPC of former or future editions
- Indexing includes all relevant material (even beyond the claims)
- ICO based on ECLA
 - Same as ECLA except for the first letter
 - **A B C D E F G H** → **K L M N P R S T**
 - Further subdivisions of ECLA

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ECLA codes in INPADOCDB offer additional search options beyond IPC's

ELECTRIC DISCHARGE TUBES OR DISCHARGE LAMPS (spark-gaps H01T; accelerators H05H) H01J

Browse ECLA definitions at: <http://v3.espacenet.com/eclsrch> H01J37

Discharge tubes with provision for introducing objects or material to be examined or processed thereof (H01J33/00, H01J40/00, H01J41/00, H01J47/00, H01J49/00 take precedence; contactless testing of electronic circuits using electron beams G01R31/005; [N: particle accelerators H05H]) H01J37/00

Gas-filled discharge tubes, [N: e.g. for surface treatment of objects such as chemical reactions (general methods or devices for heat treatments of ferrous C21D1/38; methods of carburising or nitriding of metals in general C23C8/00; metallic material C23C8/36, C23C14/32, C23C16/50; methods for coating, plating H01L21/00; heating by discharge H05B)] H01J37/32

operating with cathodic sputtering (H01J37/38 takes precedence; [N: methods of cathodic sputtering C23C14/34]) H01J37/34

show notes

[N: Target holders] H01J37/34B

[N: using supplementary magnetic fields] H01J37/34H

[N: Magnetron sputtering] H01J37/34E

[N: Planar magnetron sputtering] H01J37/34E2A

ECLA typically offers an additional level of detail beyond IPC codes.

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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 H01J0037-34/IPC
=> 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
    
```

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

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

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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
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
    
```

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

STN

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Agenda

- Database content
- Technology searching
- **Name searching**
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching



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Name 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

See pages 29-35 of the INPADOC workshop manual at:
http://www.stn-international.com/training_center/patents/inpadoc_wm.pdf



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Name searching tips

- Inventors typically: *surname, first name*
 - Some records: *first name, surname*
- Remember an individual person can be a patent assignee (PA, PAS) as well as an inventor
- Remember to also search names in Legal Status fields (LSBI) for reassignments and/or corrections

STN

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Search strategy

To conduct a name search in INPADOCDDB...

- Step 1. Access file INPADOCDDB
- Step 2. Search the name in the IN and INS fields
- Step 3. Extend the search to PA and PAS fields
- Step 4. Extend the search into the legal status fields LSIN, LSPA, and LSOP

STN

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Use Expand to browse Inventor (IN) indexes

```

=> FILE INPADOCDB
FILE 'INPADOCDB' ENTERED AT 04:39:56 ON 08
COPYRIGHT (C) 2007 European Patent Office / FIZ Karlsruhe

=> SET EXPAND CONTINUOUS
SET COMMAND COMPLETED

=> E WOLFGANG SCHNEIDER/IN,INS
E1      1      WOLFGANG SCHNEIBER/IN
E2      1      WOLFGANG SCHNEIDEL/INS
E3     111 --> WOLFGANG SCHNEIDER/IN
E4      28     WOLFGANG SCHNEIDER/INS
E5      1      WOLFGANG SCHNEIDER DIPL KOEBMAND/IN
E6      3      WOLFGANG SCHNEIDER DR/IN
E7      3      WOLFGANG SCHNEIDER DR/INS
E8      1      WOLFGANG SCHNEIDER DR ING/IN
E9      1      WOLFGANG SCHNEIDER DR ING/INS
E10     1      WOLFGANG SCHNEIDER ET HANS GEORG SCHACHNER/IN
E11     1      WOLFGANG SCHNEIDER JOSEF PETERS ET KARL GAFFAL/IN
E12     1      WOLFGANG SCHNEIDER JURGEN HABERMEIER KURT AMSLER
              ETH/IN
    
```

Access file INPADOCDB.

SET EXPAND CONTINUOUS enables the creation of one cumulative E-number list for all expand commands.

STN

41

Search the names in the reverse order

```

=> E SCHNEIDER WOLFGANG/IN,INS
E13     2      SCHNEIDER WOLFBERG DR/INS
E14     1      SCHNEIDER WOLFBERG DR D 690
E15    395 --> SCHNEIDER WOLFGANG/IN
E16    652     SCHNEIDER WOLFGANG/INS
E17     1      SCHNEIDER WOLFGANG 2300 KIE
...
E24     2      SCHNEIDER WOLFGANG 4952 PORTA WESTFALICA DE/IN

=> S E3,E4,E15,E16
      111 "WOLFGANG SCHNEIDER"/IN
      28  "WOLFGANG SCHNEIDER"/INS
      395 "SCHNEIDER WOLFGANG"/IN
      652 "SCHNEIDER WOLFGANG"/INS
L1    681 ("WOLFGANG SCHNEIDER"/IN OR "WOLFGANG SCHNEIDER"/INS OR
          "SCHNEIDER WOLFGANG"/IN OR "SCHNEIDER WOLFGANG"/INS)

=> D IN INS 9,10
L1    ANSWER 9 OF 681      INPADOCDB COPYRIGHT
IN    GERT SPRUNER V MERTZ; WOLFGANG SCHNEIDER
INS   MERTZ GERT SPRUNER V; SCHNEIDER WOLFGANG

L1    ANSWER 10 OF 681     INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
IN    SCHNEIDER, WOLFGANG
INS   SCHNEIDER WOLFGANG, DE
    
```

Generally inventor names are in the order SURNAME, FIRST NAMES.

This is a search for an exact phrase in the IN and INS fields.

STN

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Use adjacency operator (**S**) to link names

```

=> S (WOLFGANG(S)SCHNEIDER)/IN
      231895 WOLFGANG/IN
      52015 SCHNEIDER/IN
L2      898 (WOLFGANG(S)SCHNEIDER)/I

=> S (WOLFGANG(S)SCHNEIDER)/INS
      229225 WOLFGANG/INS
      51791 SCHNEIDER/INS
L3      857 (WOLFGANG(S)SCHNEIDER)/INS

=> S (WOLFGANG SCHNEIDER? OR SCHNEIDER WOLFGANG?)/INS
      32 WOLFGANG SCHNEIDER?/INS
      806 SCHNEIDER WOLFGANG?/INS
L4      834 (WOLFGANG SCHNEIDER? OR SCHNEIDER WOLFGANG?)/INS

=> S L4 NOT L3
L5      0 L4 NOT L3

=> S L2 OR L3
L6      905 L2 OR L3
    
```

The IN and INS fields are also word indexed and support (**S**) operator searching.

Search L4 is less comprehensive than L3, which uses the **S**-operator.

STN

43

INS name search retrieves 7 additional records

```

=> S L6 NOT L2
L7      7 L6 NOT L2

=> D IN INS 1,2,5,6

L7      ANSWER 1 OF 7      INPADCDB COPYRIGHT 2007 EPO/FIZ KA on STN
INS     HEYMER ANNELIES, DE; NIEGEL HANS, DE; SCHNEIDER WOLFGANG, DE

L7      ANSWER 2 OF 7      INPADCDB COPYRIGHT 2007 EPO/FIZ KA on STN
IN      BUORUFUGANGU SHIYUNDAIDAA; HANSU PEETAA ZORINGAA; KAARUHAINTSU
INS     SHIYUTORAUPU; YURUGEN BANINGU; MARUKUSU EKUSURE
INS     SCHNEIDER WOLFGANG, DE; SOLLINGER HANS-PETER DR, DE; STRAUB
INS     KARLHEINZ, DE; BANNING JUERGEN, DE

L7      ANSWER 5 OF 7      INPADCDB COPYRIGHT 2007 EPO/FIZ KA on STN
IN      P. T. BROWN; W. SCHNIDER; R. J. FIELDSSEND
INS     BROWN PETER THOMAS, GB; SCHNEIDER WOLFGANG, CH; FIELDSSEND
INS     RICHARD JOHN, GB

L7      ANSWER 6 OF 7      INPADCDB COPYRIGHT 2007 EPO/FIZ KA on STN
IN      W. SCHNID; H. P. SUOLYNGER; K. SCHTLAW
INS     SCHNEIDER WOLFGANG, DE; SOLLINGER HANS-PETER DR, DE; STRAUB
INS     KARLHEINZ, DE; BANNING JUERGEN, DE
    
```

STN

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Extend the search to Patent Assignee fields

```
=> S (WOLFGANG(S)SCHNEIDER)/IN,INS,PA,PAS
231895 WOLFGANG/IN
229225 WOLFGANG/INS
39270 WOLFGANG/PA
34057 WOLFGANG/PAS
52015 SCHNEIDER/IN
51791 SCHNEIDER/INS
27535 SCHNEIDER/PA
26202 SCHNEIDER/PAS
L9          943 (WOLFGANG(S)SCHNEIDER)/IN,INS,PA,PAS

=> S L9 NOT L6
L10         38 L9 NOT L6

=> D IN INS PA PAS

L10 ANSWER 1 OF 38      INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on
STN
IN   BACH HANS FRIEDRICH; KREIMES HORST
INS  BACH HANS FRIEDRICH, DE; KREIMES HORST, DE
PA   SCHNEIDER WOLFGANG
PAS  SCHNEIDER WOLFGANG, DE
```

Extending the search to PA and PAS retrieves 38 extra records, where Wolfgang Schneider is the Patent Assignee, rather than the Inventor.

STN

45

Extend the search to Legal Status fields

```
=> 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

=> 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 TR
PAS  SUEDEDEUTSCHE KALKSTICKSTOF

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
```

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

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

STN

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Additional tips for name searches

- Allow for misspellings due to typos or transliteration
- Inventor names can 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**

STN

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Agenda

- Database content
- Technology searching
- Name searching
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching

STN

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Number and date searching

- Publication numbers and dates (PN, PD)
 - EP1116932/PN, 20010718/PD
- Application numbers and dates (AP, AD)
 - EP2000-126646/AP, 20001205/AD
- Priority numbers and dates (PRN, PRD)
 - US2000-176284P/PRN, 20000114/PRD

STN

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Publication (PK), Application (AK) and Priority (PRK) kind codes are available

- Find US publications which resulted from Japanese Utility Models
 - => **S US/PC AND JPU/PRK**
- INPADOCDB and CAPLUS kind codes are now the same, i.e., US **AA** => US **A1**
- EXPAND PK to see all publication kind codes covered by INPADOCDB
- Browse by descriptions using EXPAND in e.g. the Patent Information Type (PIT) field

See http://www.stn-international.de/stndatabases/details/pk_codes.pdf.

STN

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Kind codes are appended to the end of numbers in overlapping series

- Utility model numbers in INPADOCDB are uniquely indexed with an appended U
 - FI9500103U/PN or JP2001-2409U/AP
- US provisional (series 60) application numbers have a P appended, i.e., US2003-440129P/PRN
- Patent authorities with overlapping number series for different publication types
 - Append a kind code letter in INPADOCDB
 - CN1060260/PN, CN1060260**B**/PN
 - Use EXPAND to determine the correct search format for patent numbers

STN

51

Divide results into granted patents and applications using new field **STA**

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


```
=> 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
```

STN

52

Search for countries using 2-letter codes or names

- Publication Country (PC), Application Country (AC) and Priority Country (PRC)
- WO and EP designated States (DS)
- Supersearch field PCS (PC + DS)
- PCT-application **(AC.WO)** and PCT-priority countries **(PRC.WO)** are  searchable and displayable for analysis

STN

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Date searching is easy with STN Date Edit

- Enter dates in your favorite format
 - => **OCTOBER 1, 2002/PD (Publication Date)**
 - => **NOVEMBER 2005/PRD (Priority Date)**
 - => **3 APRIL 1999/AD (Application Date)**
- Use Publication Year (PY) where possible
 - => **S 2000-2001/PY**
- Use paragraph **(P)** to link kind codes and dates
 - => **S EPB#/PK (P) JUNE 88/PD**

STN

54

Unknown Application Year

=> S US!!!!-126372/AP

L1 9 US!!!!-126372/AP

If the application year is not known, use internal truncation "!" (exactly one character).

=> D AI 1-3

L1 ANSWER 1 OF 9 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN

AI US 2005-126372 A 20050511

L1 ANSWER 2 OF 9 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN

AI US 2002-126372 A 20020419

L1 ANSWER 3 OF 9 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN

AI US 1995-126372 A 19950126

STN

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Agenda

- Database content
- Technology searching
- Name searching
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching

STN

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INPADOCDB patent family

record 1	record 2	record n
publication 1 PI DE10009756 A1	publication 1 PI EP1130059 A1	publication 1 PI US20010031805 A1
publication 2 PI DE10009756 B4	publication 2 PI EP1130059 B1	publication 2 PI US6528560 B2
legal status	legal status	legal status

63 mil publications | 51 mil records | 35 mil patent families

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

STN

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Theoretical patent family example

FAMILY P1			
Document D1	Priority P1		
Document D2	Priority P1	Priority P2	
Document D3	Priority P1	Priority P2	
Document D4		Priority P2	Priority P3
Document D5			Priority P3

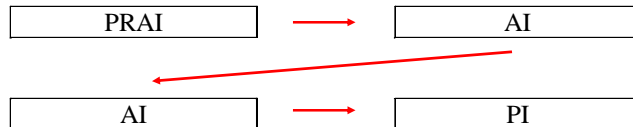
INPADOCDB "extended" family

STN

58

INPADOCDB Family display (FAM)

- INPADOCDB patent families are displayed using a choice of flexible display formats
- INPADOCDB patent families are compiled dynamically each time they are displayed
- The INPADOCDB FAM table has the form



STN

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INPADOCDB Family display (FAM)

L3 ANSWER 1 OF 1 INPADOCDB COPYRI
 PATENT FAMILY INFORMATION
 AN 23821315 INPADOCDB

-----PRAI-----		+-----AI-----+	
DE 2000-10009756	A 20000301	DE 2000-10009756	A 20000301
		DE 2001-50100062	A 20010221
		EP 2001-104187	A 20010221
		JP 2001-55733	A 20010228
		US 2001-796907	A 20010228
DE 2001-50100062	A 20010221	DE 2001-50100062	A 20010221
+-----AI-----+		+-----PI-----+	
DE 2000-10009756	A 20000301	DE 10009756	A1 20010913
		DE 10009756	B4 20040325
DE 2001-50100062	A 20010221	DE 50100062	B1 20030109
EP 2001-104187	A 20010221	EP 1130059	A1 20010905
		EP 1130059	B1 20021127
JP 2001-55733	A 20010228	JP 2001310999	A 20011106
US 2001-796907	A 20010228	US 20010031805	A1 20011018
		US 6528560	B2 20030304

2 priorities, 5 applications, 8 publications

Family members (PI) are grouped together in application number order.

5 INPADOCDB records (applications) represent 8 separate publications.


STN

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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 with all available author abstracts included.

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INPADOCDB has fully customizable display fields and display 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
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.

STN 62

Review patent family assignee name variations with new PA.F display

=> D PA.F CFAM FFAM

```
L1 ANSWER 1 OF 66 INPADOCDB c
PA SYNGENTA PARTICIPATIONS AG
PA SYNGENTA PARTICIPATIONS AG
PA SYNGENTA PARTICIPATIONS AG; HUETER, OTTMAR, FRANZ; PITTERNA, THOMAS;
  JUNG, PIERRE; MURPHY KESSABI, FIONA; QUARANTA, LAURA
PA SYNGENTA PARTICIPATIONS AG; HUETER, OTTMAR, FRANZ; PITTERNA, THOMAS;
  JUNG, PIERRE; MURPHY KESSABI, FIONA; QUARANTA, LAURA
```

The new INPADOCDB family-based display fields (.F) can be combined with established patent family display formats.

3 priorities, 3 applications, 4 publications

PATENT FAMILY INFORMATION
AN 53221420 INPADOCDB

```
+-----PI-----+
EP 1632498          A1 20060308
EP 1789430          A2 20070530
WO 2006024405      A2 20060309
WO 2006024405      A3 20060526
```

3 priorities, 3 applications, 4 publications

STN

63

Agenda

- Database content
- Technology searching
- Name searching
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching

STN

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Legal Status searching

- Legal status data are available for **48** patent authorities for about **12** 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 **LSPA**
 - opponent **LSOP**
 - legal effect date **LSDF**

For a complete list of legal status search options see:

http://www.stn-international.de/training_center/patents/inpadoc903.pdf

STN

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Company search for Gilead Sciences which includes applicant reassignments

```
=> FIL INPADOCDB
=> S GILEAD SCIENC?/PA,PAS
      1050 GILEAD/PA
      143359 SCIENC?/PA
      915 GILEAD SCIENC?/PA
          ((GILEAD(S)SCIENC?)/PA)
      916 GILEAD SCIENC?/PAS
L1      918 GILEAD SCIENC?/PA,PAS
=> S (GILEAD(S)SCIENC?)/LSPA
L2      276 GILEAD SCIENC?/LSPA
=> S L2 NOT L1
L3      158 L2 NOT L1
```

For a standard patent assignee search use **PA, PAS**.

The legal status field **LSPA** retrieves 158 additional records.

LSPA applicant reassignment field includes:
-Corrections or new company names
-Transfer of ownership

STN

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Example of a patent reassigned to Gilead Sciences

=> D BIB HIT

```

L3 ANSWER 1 OF 158 INPADOCDB COPYRIGHT 2007 EPO/FIZ KA on STN
AN 225579331 INPADOC ED 20040123 EW 200404 UP 20041007
TI Combination therapy to treat hepatitis B virus.
IN FURMAN, PHILLIP A.; PAINTER, GEORGE R.; BARRY, DAVID; ...
INS FURMAN PHILLIP A, PAINTER GEORGE R; BARRY DAVID; ROUSSEAU
PA TRIANGLE PHARMACEUTICALS INC.
PAS TRIANGLE PHARMACEUTICALS INC
PIT EPAL PUBL. OF APPLICATION WITH SEARCH REPORT
PI EP 1382343 A1 20040121
DS R: AT BE CH CY DE DK ES FI FR GB GR IE IT
AI EP 2003-77543 A 19991102
PRAI EP 1999-961553 A3 19991102 (EDPR)
US 1998-106664P P 19981102 (EDPR)
LEGAL STATUS HIT
AN 225579331 INPADOC
20041103 EPRAP1 APPLICANT REASSIGNMENT (CORRECTION)
GILEAD SCIENCES, INC.
CHG Change of Owner, Inventor, Applicant
.....20041104
  
```

Here a new re-assignment assignee name (/LSPA) was provided. This is important, e.g. for statistical assignee analysis, and/or due diligence studies.

STN

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Searching Legal Status events

- Search either code in the LSC field or the text describing the code in the LSTX field
- Use sentence (**S**) in the LSTX field to limit to the same legal status events
=> **S (EXPIR?(S)FAIL?)/LSTX**
- Use the L-operator to link LSTX or LSC to the INPADOC Legal Status Date (LSD)

STN

68

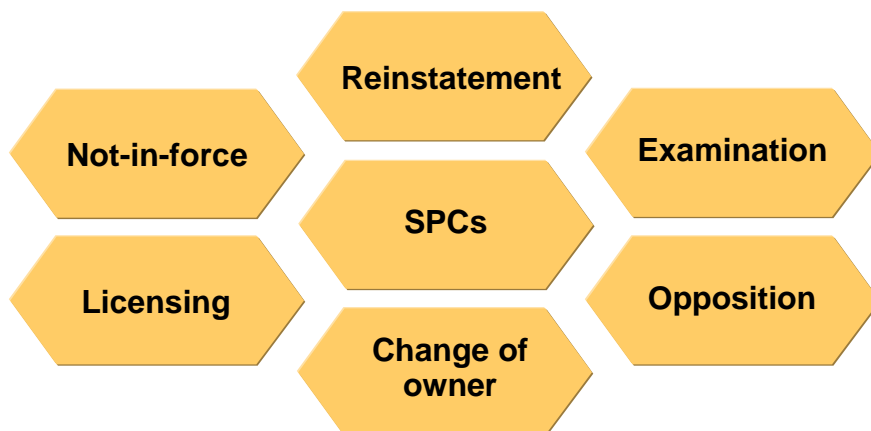
Legal Status display options

- Standard format legal status display – LS
- Detailed, fielded legal status – LS2
- Legal status is included in the MAX format
- Legal status is included in the FFAM, LFAM and MFAM family display formats

STN

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New STN-assigned Legal Status Categories simplify Legal Status searches



STN

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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

STN

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Lapse, expiry, withdrawal or refusal (**NIF**) of Syngenta publications

```
=> S SYNGENTA/PA,PAS AND NIF/LSC2
L1      1106 SYNGENTA/PA,PAS AND NIF/LSC2

=> D PI LS

L1      ANSWER 1011 OF 1106  INPADOC  COPYRIGHT 2007 EPO on STN
PI      EP 929222           B1 20020515

LEGAL STATUS
AN      111305459 INPADOC
.....
20050525 EPGBPC-GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF
          RENEWAL FEE
          20041003
          NIF Lapses, Expiries, Withdrawals, Refusals
          .....20050527

20050606 EPREG          REFERENCE TO A NATIONAL CODE
          DKEBP-DK: PATENT LAPSED
          NIF Lapses, Expiries, Withdrawals, Refusals
          .....20050625
```

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

Display legal status with the display field **LS**.

STN

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Agenda

- Database content
- Technology searching
- Name searching
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching

STN

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INPADOCDB patent citation content



- Cited references from 12 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 from US, WO, JP, AU, and DE publications

STN

74

More than 10 million records with cited references from 12 patent authorities

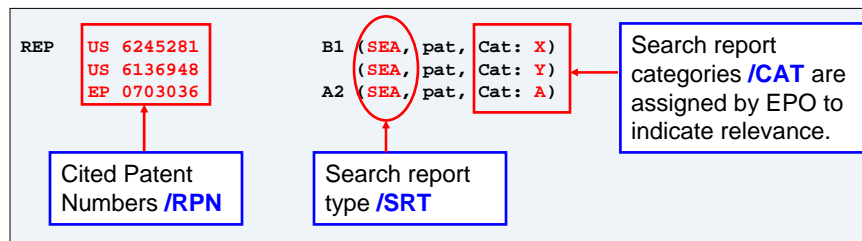
Patent Country	Total Records	From Search Report	By Applicant
US	4,587,069	4,442,813	708,603
EP	1,627,727	1,135,928	63,892
WO	1,149,011	1,135,586	46,882
JP	1,100,228	1,091,165	0
DE	1,097,578	1,021,998	2
FR	522,667	488,762	14,194
GB	255,811	252,877	0
AU	177,779	163,776	0
NL	17,690	17,617	2,002
BE	10,136	10,049	362
CH	3,696	3,688	77
TR	3,249	3,078	11

STN

75

Patent citations sample display

from EP 1384565



- Search Report Types /SRT
 - APP, SEA, EXA, OPP, 115 (3rd parties)
- Search Report Categories /CAT
 - A E L O P T X Y &
- Linked with (S)-proximity

STN

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Literature citations sample display

from EP 1384565

```
REXP XP002213140 (SEA, Cat: X) XP-numbers from EPO /REXP.
      XP000656866 (SEA, Cat: X)
REN  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
      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
```

Cited non-patent literature /REN.

STN

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Citation searching: Which Qiagen patents have been cited?

```
=> S QIAGEN/PA,PAS
L1 502 QIAGEN/PA,PAS
=> SEL PN
E1 THROUGH E488 ASSIGNED
=> S E1-488/RPN
L2 668 E1-488/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 patent numbers
3. Search selected numbers as cited patent numbers in /RPN
4. Use RE field to display all reference information

The cited Qiagen patent publication.

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Agenda

- Database content
- Technology searching
- Name searching
- Number and date searching
- Patent families
- Legal status searching
- Citation searching
- SDI searching

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Common SDI's in INPADOCDB

- New published documents from competitors or in a technology area
- New family members of known patents
- Changes in legal status of known patents

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INPADOCDB has sophisticated update codes to deliver clear, uncluttered SDI's

- Record-based update codes can be used to track changes of individual records
- Family-based update codes can be used to track changes of all family members

For a list of all SDI options see the INPADOC Workshop Manual (page 90):
http://www.stn-international.com/training_center/patents/inpadoc_wm.pdf



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INPADOCDB update code options

	Record	Family
New family ("basic")	-	EDF
New record (MEMBER)	EDP	UPFD
New document (publication)	ED	UPFP
Update to bibliography	UP	UPFB
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.



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

```
=> S (WO2005067620 OR WO2005080313 OR WO2003102130 OR
WO2005004839 OR WO2005009965 OR WO2005089728.....)/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
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.

STN

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

```
PATENT FAMILY INFORMATION
AN 283038503 INPADOC

+-----+-----+
AU 2005224182      A1 20050929
CA 2559640        A1 20050929
EP 1729746        A2 20061213
SE 2004000685     D0 20040319
WO 2005089728     A2 20050929
WO 2005089728     A3 20060511
```

6 publications

```
-----
MEMBER 5
-----
PI  WO 2005089728      A3 20060511
```

```
LEGAL STATUS CURRENT UPDATE
AN 283038503 INPADOC
20060915 WOENP      ENTRY INTO THE NATIONAL PHASE IN:
                    JP 2007503440      A
```

.....20070209

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

For **WO 2005089728** we have new legal status information in the latest database update.

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Field changes of the latest update are indicated in the **CHG** display field 

- Indicators
 - A added
 - C changed

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

Indicates:	English Abstract	ADDED
	IPC	CHANGED
	Original Application Information	ADDED
	Designated States	ADDED

Note: The previous version of the record can be displayed using the display formats **ALLO** or **MAXO**.

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Things to remember about SDI's

- The **ALL** format now includes abstracts
 - To eliminate them, change to **IND**
- The kind codes have changed
 - Check them in the table referred to earlier
- To use IPC's in SDI's
 - Check the new IPC schedules for important changes
 - Use **/IPC**, not **/ICM**, **/ICS**, **/IC**, etc.

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Key features and benefits of the new INPADOCDB database on STN

- More than **63 million** documents from **80** patent authorities - 14 million more than INPADOC
- Addition of substantial **backfile** data
- Author abstracts for **42** patent authorities – 10 more than INPADOC
- **Enhanced** International (**IPC**) and European (**ECLA**) classification searching
- Addition of new classification data (**ICO, IDT**)
- **Simplified legal status searching**
- Comprehensive patent and non-patent literature **citations** for 12 patent authorities

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Visit www.fiz-k.com/inpadocdb for the latest **INPADOCDB** news and reference materials

The screenshot shows a web browser window displaying the STN website. The page title is "INPADOCDB - the reloaded INPADOC file April 27, 2007 - Mozilla Firefox". The URL in the address bar is "http://www.stn-international.com/stndatabases/details/inpadocdb.html". The page content includes the STN logo, navigation links, and a main heading "INPADOCDB - the reloaded INPADOC file" dated "04 June 2007". Below the heading, there are three bullet points with icons: "INPADOCDB on STN - The Next Generation (01.07)", "Making the Difference - Enhancing the Quality of First Level Patent Data (03.07)", and "Boldly Go Where No Patent Searcher Has Gone Before: The New INPADOCDB on STN (05.07)". A paragraph states: "The INPADOC file has been reloaded and is now available since 29 April 2007 under the name **INPADOCDB** (International Patent Documentation Data Base). The European Patent Office (EPO) has completed the harmonization project between their two data files INPADOC(PRS) and DOCDB. This new collection of data is now delivered in a new format called DOCDB XML ST.36. STN created a new database, INPADOCDB, from these new XML data and has loaded the INPADOC legal status data into that database also. While we strive to keep changes for search and display at a minimum, the new file offers a lot of new and enhanced content:"

- about 63 million documents
- more backfile data (14 million documents) back to 1838(US), 1879(DE), 1840(GB), 1900(FR), 1944(JP), etc.
- many more abstracts, mostly in English.
- cited references (patents and non-patent literature) for 12 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, JP and US.
- comprehensive European classifications (ECLA, ICO, IDT).
- many original bibliographic data and abstracts.
- introduction of legal status code categories.

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INPADOCDB on STN

www.fiz-k.com/inpadocdb