



INPADOC Reloaded - Enhanced Content, Additional Functionality

Ernst Aichinger

STNext[®]

 **FIZ Karlsruhe**
Leibniz Institute for Information Infrastructure

 **CAS**[®]
A DIVISION OF THE
AMERICAN CHEMICAL SOCIETY

Agenda

- Introduction to INPADOCDB and INPAFAMDB
- Summary: Enhancements with the reload in October 2020
- Comments & search examples
 - (1) Performance enhancements
 - (2) Legal event categories
 - (3) Calculated expiration dates
 - (4) Counters
 - (5) Original patent numbers
 - (6) Enhanced search and display



INPADOC database content

- Bibliographic and family data of patent documents and utility models
- Classifications, abstracts and legal status information
- More than 100 patent-issuing organizations, including
 - the European Patent Office (EPO) and
 - the World Intellectual Property Organization (WIPO)
- The database contains the harmonized data from INPADOC (legal status) and DOCDB (bibliographic data)

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- The database contains the harmonized data from INPADOC (legal status) and DOCDB (bibliographic data)
- Database producer is the European Patent Office with added-value from FIZ Karlsruhe, e.g.:
 - Legal status categories
 - Error corrections
 - Chinese Dual Filings
 - Calculation of expiration dates



Editorial corrections for more accurate patent families

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

Editorial corrections for priority numbers

AN 103752806 INPADOCDB ED 20191121 EW 201947 UP 20191128 UW 201948 Full-text
FN 44127877
TI Metodo y aparato de predictor de vector de movimiento extendido.
TL Spanish
IN LIN, Jian-Liang; TSAI, Yu-Pao; HUANG, Yu-Wen; LEE, Shaw-Min
INS LIN JIAN-LIANG; TSAI YU-PAO;
PA HFI Innovation Inc.
PAS HFI INNOVATION INC, TW
DT Patent
PI **ES 2729271** T3 2019
PIT EST3 TRANSLATION OF GRANTED
DAV 20191031 printed-with-grant
STA GRANTED
AI ES 2011-845823 T 2011
AIT EST Translation
PRAI **US 2010-417798P** P 20101129 (USP, 20120607, E)
US 2011-61431454 P 20110111 (USP, 20120120, Y)
US 2011-13089233 A 20110418 (USA, 20120607, N)
WO 2011-CN75013 W 20110531 (WOWW, 20130606, N)
PRAIT USP Provisional application
USA Patent application
WOWW Additional PCT application
XPD 20310531

Original document:

54 Título: **Método y aparato de predictor de vector de movimiento extendido**

30 Prioridad:

29.11.2010 **US 201161417798 P**
11.01.2011 US 201161431454 P
18.04.2011 US 201113089233

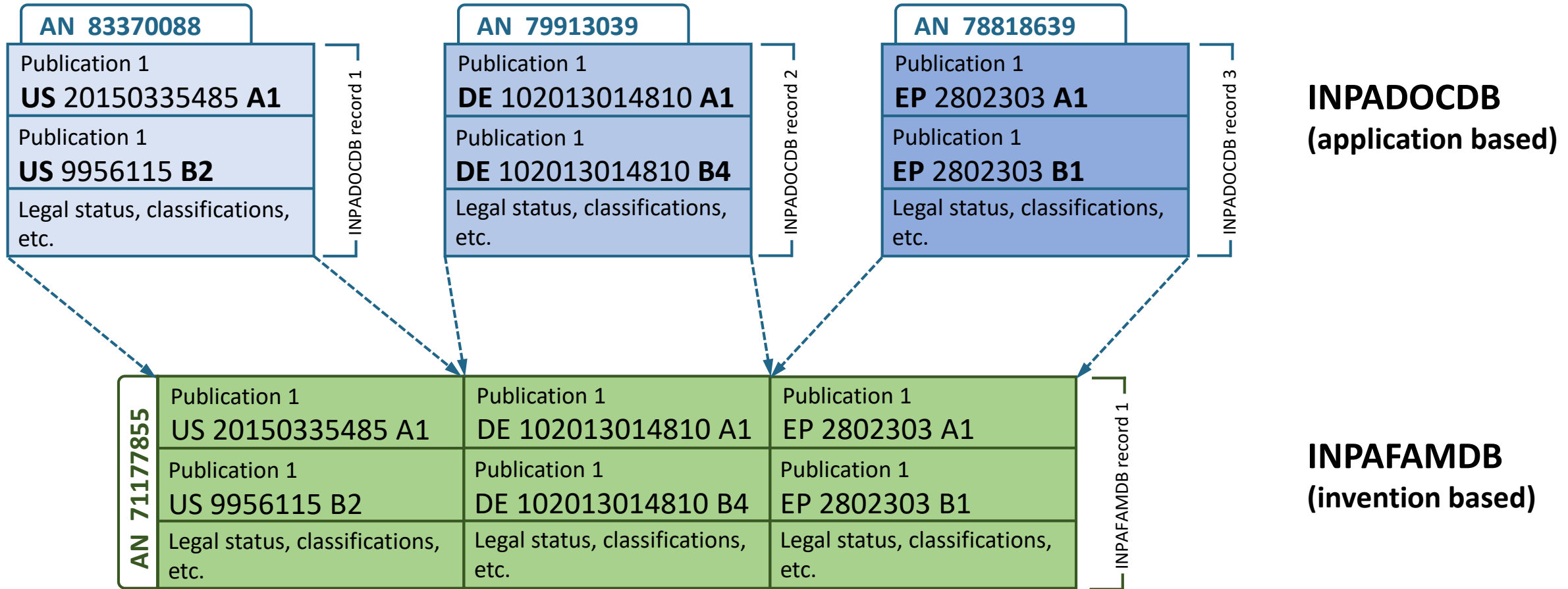
73 Titular/es:

HFI INNOVATION INC. (100.0%)
3F.-7, No.5, Taiyuan 1st St.
Zhubei City, Hsinchu County 302 , TW

Facts and figures on INPADOCDB/INPAFAMDB

- 125 million publications, 98 million national families, 65 million international patent families
- From 1782 to present
- Abstracts for more than 51 patent authorities
- Classification codes IPC, CPC, FTERM, FCL
- Legal status for 98 patent authorities from 1967
- More than 325 million legal events for more than 63 million records, around 52 million families
- Calculated expiration dates for all patent authorities, except PCT

Two implementations: INPADOCDB vs. INPAFAMDB



Two implementations of INPADOC for different questions

Legal status search

Analysis of number of patents or link patents and legal status:

- How many applications did a company file in which country in the last 10 years?
- How many applications have been filed in a specific technology?
- What is the patent granting rate in different countries?
- How many patents of a year are expired/lapsed?
- Who files oppositions?

INPADOCDB
(application based)

Technology search

Competitor search

Classification search

Analysis of inventions, e.g. patent portfolio

- How many inventions of a company are filed?

INPAFAMDB
(invention based)

Two implementations: INPAFAMDB and INPADOODB

AN 101666832 INPADOODB
FN 63258148
SFN 60421678 DOCID 533240815 PUBID 533240816
TI 3- OXO- 6- HETEROARYL- 2- PHENYL- 2, 3- DIHYDROPYRIDAZINE- 4- CARBOXAMIDES.
PI CA 3082857 A1 20190531

AN 103822536 INPADOODB
FN 63258148
SFN 60421678 DOCID 503360681 PUBID 537010760
TI 3- OXO- 6- HETEROARYL- 2- PHENYL- 2, 3- DIHYDROPYRIDAZINE- 4- CARBOXAMIDES.
PI EP 3713931 A1 20200930

INPADOODB
(4 records)

AN 63258148 INPAFAMDB
DN 101666832
DN 103822536
DN 103677460
DN 95304416
TI 3- OXO- 6- HETEROARYL- 2- PHENYL- 2, 3- DIHYDROPYRIDAZINE- 4- CARBOXAMIDES.
PI CA 3082857 A1 20190531
EP 3713931 A1 20200930
US 20200283402 A1 20200910
WO 2019101643 A1 20190531

INPAFAMDB
(one record)

Two implementations: INPAFAMDB and INPADOODB

AN 101666832 INPADOODB
FN 63258148
SFN 60421678 DOCID 533240815 PUBID 533240816
TI 3- OXO- 6- HETEROARYL- 2- PHENYL- 2, 3- DIHYDROPYRIDAZINE- 4- CARBOXAMIDES.
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TI 3- OXO- 6- HETEROARYL- 2- PHENYL- 2, 3- DIHYDROPYRIDAZINE- 4- CARBOXAMIDES.
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DN 101666832
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PI CA 3082857 A1 20190531
EP 3713931 A1 20200930
US 20200283402 A1 20200910
WO 2019101643 A1 20190531

INPADOODB
(4 records)

INPAFAMDB
(one record)


Two implementations: INPAFAMDB and INPADOODB

- Companion files with different compilation of patent publications
- All **publication levels of a patent authority for one application** form one record in INPADOODB
- All patent **publications of one patent family (invention)** form one record in INPAFAMDB:

- The accession number **AN** (INPAFAMDB) is based on the family number FN of INPADOODB
- The document number **DN** (INPAFAMDB) is the Accession Number AN from INPADOODB

INPAFAMDB **AN** ↔ **FN** INPADOODB

INPAFAMDB **DN** ↔ **AN** INPADOODB

 INPADOODB provides various display formats for the efficient display of patent family information without having to transfer the data to INPAFAMDB

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INPADOC Reloaded - Enhanced Content, Additional Functionality

The new INPADOCDB and INPAFAMDB have been released on 18 October 2020

Selected new features:

- *Performance Enhancements* – much faster displays
- *Legal Event Categories* – extended set available for all legal events
- *Calculated Expiration Dates* – now available for all patent authorities (except PCT)
- *Counters* – patent family statistics for analyzing filing behavior, etc.
- *Original Patent Numbers* – help to access patent office resources
- *Enhanced search and display* – increased search precision

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Enhanced performance with fast displays

- The new implementation of INPADOC has a tremendous effect on the database performance => displays are **more than three times faster**
- INPADOC family displays with full bibliographic and legal status information can produce large data volumes (e.g. FFAM, which is bibliography + legal status for each family member)
- Large families with > 50 members could easily have > 100 pages of text



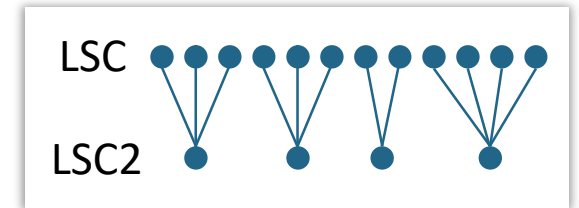
Due to the growing volume of Asian text information large INPADOC displays should be done on STNext

E#	FILE	FREQUENCY	TERM
--	----	-----	----
****	END OF FIELD	****	
E3	INPAFAMDB	1 -- >	5591 /PCNT
E4	INPAFAMDB	1	5327 /PCNT
E5	INPAFAMDB	1	4080 /PCNT
E6	INPAFAMDB	1	3025 /PCNT
E7	INPAFAMDB	1	2265 /PCNT
E8	INPAFAMDB	1	2105 /PCNT
...			

PCNT – Patent number count
New counters have been implemented for efficient statistical analysis. The largest family has 5591 members

Legal status categories for all legal event codes

- All legal status codes (/LSC) are classified to one of the 27 categories (/LSC2)
 - Search efficiently among all available codes and countries with a small set of well-selected categories
 - New codes are continuously reviewed and included by the FIZ Editorial
- Changes to the previous 7 categories:
 - Some legal status codes have been sorted to a new category
 - The category NIF (Not In Force) was split up in three categories:
 - WTH (Withdrawal, Refusal, etc.)
 - LAP (Lapse, Non-payment of fees)
 - EXP (Expiry)
 - Search with NIF/LSC2 retrieves all answers for WTH, LAP, and EXP



Legal status categories in INPADOC on STNNext

- 22 Legal Status Categories are based on legal status event information (see table on the right).
- Five Legal Status Categories are based on the bibliographic data (see below).
Publication information is part of legal information.
- For more information: [HELP LEGSTAT](#)

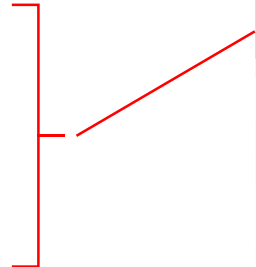
Category	Text
GRA	Grant publication information
PRE	Pre-grant publication information
UKN	Unknown
APP	Patent application
PRI	Priority information

Category	Text
CHG	Change of Owner, Inventor, Applicant
CLA	Change, Removal or Addition of Classifications
COR	Correction, Amendment, Modification in Specification
DIV	Divisional and Additional Applications
ENP	Entry into National Phase
ERR	Erratum
EXA	Examination, Search Report
EXP	Expiry
EXT	Time Extension
FEE	Fee Payment
LAP	Lapse (Non-Payment of Fees)
LIC	Licensing
LIM	Nullification of Parts of Rights, Limitation
MIS	Miscellaneous or Ambiguous
NEN	Non-entry into national phase (WO)
NOP	No Opposition or Appeal
ORE	Opposition, Reexamination, Appeal
PUB	New or Withdrawn Publication
REI	Reinstatement or Restoration
REP	Change of Representative
SPC	Supplementary Protection Certificate, Term Extension
WTH	Withdrawal, Refusal, etc.

Legal status categories in INPADOC on STNNext

EP17P REQUEST FOR EXAMINATION FILED
EP17Q FIRST EXAMINATION REPORT DESPATCHED
JPA975 REPORT ON ACCELERATED EXAMINATION
JPA621 WRITTEN REQUEST FOR APPLICATION EXAMINATION
JPA871 EXPLANATION OF CIRCUMSTANCES CONCERNING
ACCELERATED EXAMINATION

...

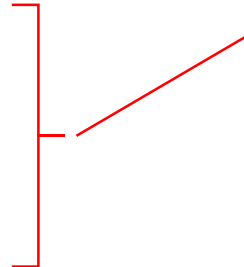


Category	Text
CHG	Change of Owner, Inventor, Applicant
CLA	Change, Removal or Addition of Classifications
COR	Correction, Amendment, Modification in Specification
DIV	Divisional and Additional Applications
ENP	Entry into National Phase
ERR	Erratum
EXA	Examination, Search Report
EXP	Expiry
EXT	Time Extension
FEE	Fee Payment
LAP	Lapse (Non-Payment of Fees)
LIC	Licensing

Legal status categories in INPADOC on STNNext

EP17P REQUEST FOR EXAMINATION FILED
 EP17Q FIRST EXAMINATION REPORT DESPATCHED
 JPA975 REPORT ON ACCELERATED EXAMINATION
 JPA621 WRITTEN REQUEST FOR APPLICATION EXAMINATION
 JPA871 EXPLANATION OF CIRCUMSTANCES CONCERNING ACCELERATED EXAMINATION
 ...

Category	Text
CHG	Change of Owner, Inventor, Applicant
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ERR	Erratum
EXA	Examination, Search Report
EXP	Expiry
EXT	Time Extension
FEE	Fee Payment
LAP	Lapse (Non-Payment of Fees)



Category	Text
GRA	Grant publication information
PRE	Pre-grant publication information
UKN	Unknown
APP	Patent application
PRI	Priority information

LSD	LSC	LSC2	LSTX
...			
20171115	EPA		Patent application APP Application Information
20200826	EPA1		APPLICATION PUBLISHED WITH SEARCH REPORT PRE Pre-grant Publication
...			
20201104	EPA4		SUPPLEMENTARY SEARCH REPORT PRE Pre-grant Publication



Which US patents have lapsed?

=> **FIL INPADOCDB**

=> **S EASTMAN CHEMICAL?/PASS AND (LAP/LSC2 (L) 2020/LSD)**

L1 242

Which US patents have lapsed?

=> **FIL INPADOCDB**

=> **S EASTMAN CHEMICAL?/PASS AND (LAP/LSC2 (L) 2020/LSD)**

L1 242

PASS – Patent Assignee, Patent Assignee Standard and Legal Status PA

LSD - Legal status Gazette date

LSC2 - Legal Status Category searched for lapses (LAP, non-payment of fees). Optionally, exclude reinstatements with (NOTL) (REI/LSC2)

Which US patents have lapsed?

=> **FIL INPADOCDB**

=> **S EASTMAN CHEMICAL?/PASS AND (LAP/LSC2 (L) 2020/LSD)**

L1 242

=> **D TI PILS**

L1 ANSWER 1 OF 242 INPADOCDB COPYRIGHT 2020 EPO/FIZ KA on STN

TIEN Processes for making hydroxymethylbenzoic acid compounds.

PA **EASTMAN CHEMICAL COMPANY**

PI US 9328050 B1 20160503

...

20200608	USLAPS	- LAPSE FOR FAILURE TO PAY MAINTENANCE FEES PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY	}	(L)
		LAP Lapse (Non-Payment of Fees) 20200618		
20200630	USFP	- EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE 20200503	}	(L)
		LAP Lapse (Non-Payment of Fees) 20200709		

Search precision with separate LS search fields

=> FIL INPADOCDB

=> S EASTMAN CHEMICAL?/PASS AND (LAP/LSC2 (L) 2020/LSD)

L1 242

=> D TI PUS

L1 ANSWER 1 OF 242 INPADOCDB COPYRIGHT 2020 EPO/FIZ KA on STN

TIEN Processes

PA EASTMAN CHEMICAL COMPANY

PI US 9328050 B1 20160503

...

LSD – Legal status date

LSC – Legal status code

LSTX – Legal status code text

LSFT – Legal status free text

20200608 USLAPS

- LAPSE FOR FAILURE TO PAY MAINTENANCE FEES
PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES
(ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT
OWNER: LARGE ENTITY

LAP Lapse (Non-Payment of Fees)

..... 20200618

- EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE
20200503

LAP La 20200709

LSCC – Legal status
country code

LSC2 – Legal status category

UPLS – Update date legal status

Search precision with separate LS search fields

Further information

E-seminar on legal status searching on STN:

<http://stn-international.de/en/training-center/e-seminars/legal-status-information-inpadoc>

Information on legal status categories in INPADOC:

=> HELP LEGSTAT

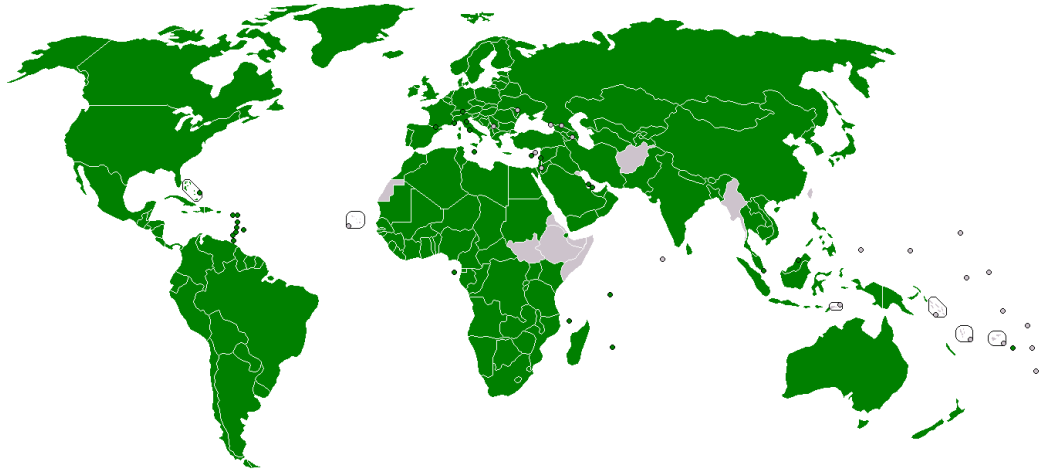
The image shows a patent document snippet with several callout boxes pointing to specific legal status codes and their descriptions:

- LSD – Legal status date**: Points to the date **20200608** in the text **USLAPS**.
- LSC – Legal status code**: Points to the code **USLAPS**.
- LSTX – Legal status code text**: Points to the text **LAPSE FOR FAILURE TO PAY MAINTENANCE FEES**.
- LSFT – Legal status free text**: Points to the text **PATENT EXPIRED FOR FAILURE TO PAY MAINTENANCE FEES (ORIGINAL EVENT CODE: EXP.); ENTITY STATUS OF PATENT OWNER: LARGE ENTITY**.
- LSCC – Legal status country code**: Points to the code **US** in the text **US 9328050**.
- LSC2 – Legal status category**: Points to the code **LAP** in the text **LAP Lapse (Non-Payment of Fees)**.
- UPLS – Update date legal status**: Points to the date **20200618** in the text **EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE**.

Background text from the patent document includes: "ANSWER 1 OF 242 INPADOCDB COPYRIGHT 2020 EPO/FIZ KA on STN", "Processes", "benzoic acid compounds", "EASTMAN CHEMICAL COMPANY", "US 9328050", "B1 20160503", "LAP Lapse (Non-Payment of Fees)", "EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE", "20200503", "20200618", "20200709".

Calculated expiration dates – narrow down FTO searches, do portfolio analyses, etc.

- Calculated expiration dates are now available for
 - all patent authorities (except for PCTs)
 - all pre- and post-grant publications with an application year \geq 1980



- More than 400 rules operate behind the scenes and are continuously updated
- FIZ Editorial closely follows new patent coverage in INPADOC and changes of the patent laws

XPD – Calculated expiration date
XPY – Calculated expiration year

TIEN NOVEL CARBODIIMIDES, METHOD FOR PRODUCTION THEREOF, AND USE THEREOF.
XPD 20381102
XPY 2038

Comparing patent portfolios with calculated expriations dates

=> **FIL WPIINDEX**

...

L1 5
L2 9

Search for thermally stable polymers with carbodiimide.

L1 – company 1

L2 – company 2

=> **FIL INPADOCDB**

=> **TRA L1 1- PNK /PNK**

L3 TRANSFER L1 1- PNK : 74 TERMS
L4 43 L3/PNK

=> **SEL L4 XPY**

Alternatively, use the ANALYZE command.

E1 THROUGH E6 ASSIGNED

=> **D SEL E1-**

E#	FILE	FREQUENCY	TERM
E1	INPADOCDB	14	2034/XPY
E2	INPADOCDB	10	2033/XPY
E3	INPADOCDB	10	2035/XPY
E4	INPADOCDB	2	2030/XPY
E5	INPADOCDB	2	2031/XPY
E6	INPADOCDB	1	2038/XPY

Comparing patent portfolios with calculated expriations dates

=> FIL WPINDEX

...
L1
L2

5
9

=> FIL INPADOODB

COMPANY 1

COMPANY 2

=> TRA L1 1- PNK /PNK

L3 TRANSFER L1 1- PNK : 74 TERMS
L4 43 L3/PNK

=> SEL L4 XPY

E1 THROUGH E6 ASSIGNED

=> D SEL E1-

E#	FILE	FREQUENCY	TERM
--	----	-----	----
E1	INPADOODB	14	2034/XPY
E2	INPADOODB	10	2033/XPY
E3	INPADOODB	10	2035/XPY
E4	INPADOODB	2	2030/XPY
E5	INPADOODB	2	2031/XPY
E6	INPADOODB	1	2038/XPY

=> TRA L2 1- PNK /PNK

L5 TRANSFER L2 1- PNK : 52 TERMS
L6 36 L5/PNK

=> SEL L6 XPY

E7 THROUGH E15 ASSIGNED

=> D SEL E7-

E#	FILE	FREQUENCY	TERM
--	----	-----	----
E7	INPADOODB	7	2035/XPY
E8	INPADOODB	6	2027/XPY
E9	INPADOODB	5	2034/XPY
E10	INPADOODB	4	2020/XPY
E11	INPADOODB	2	2014/XPY
E12	INPADOODB	1	2015/XPY
E13	INPADOODB	1	2019/XPY

Patent family counts for analysis

- Various new options to analyze patent families
 - number of **applications** (ACNT)
 - number of **publications** (PCNT)
 - number of **priorities** (PRCNT)
 - number of **patent authorities** (CCNT)
 - number of **EPO simple families** (SFCNT)
 - number of **legal events** (LSCNT)
- Use FSTAT to display the family statistics for individual records (also part of predefined formats)

```
...
EP 3018124          B1 20180725
EP 3215486          A1 20170913      EP 2015-791561      A 20151103
+----- Priorities -----+
EP 2014-191710      A 20141104
WO 2015-EP75612     W 20151103
```

**FSTAT 2 priorities, 20 applications, 26 publications (1 EPO simple family)
17 countries, 221 legal status events**

FSTAT is part of default display
in INPAFAMDB

Original patent numbers as on publications

- Patent numbers (publication, application, priority) in the DOCDB format help to access patent office resources and vice versa
- Original patent numbers are now searchable and displayable (PNO, APO, PRNO)

	PNO Patent Format	STN Patent Format
등록특허 10-1000002	KR 10 1000002	KR1000002
(11) MX PA06011185 A	MX PA06 011185	MX 2006 011185
US RE43,390 E	US RE 43390	US43390 E
PI 0923127-7 B1	BR PI09 23127	BR 2009 023127

INPADOC with a large number of original languages

- Language specific text searches and displays increase search precision: now available in English, French, German, Spanish and „other language“
 - titles TIEN/TIDE/TIFR/TIES/TIOL
 - abstracts ABEN/ABDE/ABFR/ABES/ABOL (26 other Latin languages*)
- Display of inventor and assignee names has been enhanced on family level
 - in INPAFAMDB the display of names (IN, INS, PA, PAS) is streamlined and shows less redundancy (i.e. formats BRIEF, BIB)
- Display of titles is limited to one representative title in the default display in INPAFAMDB

* Portuguese > Norwegian > Italian > Romanian > Polish > etc.

Several displays with original language fields

TIEN Novel carbodiimides, method for the production and use thereof.
- NOVEL CARBODIIMIDES, PROCESSES FOR THE PRODUCTION THEREOF AND USE THEREOF.

...

TI ES Nuevas carbodimidias, procedimientos para su produccion y su uso.
- NUEVAS CARBODIIMIDAS, PROCEDIMIENTO PARA SU PREPARACION Y SU USO.

TI OL carbodimidias com grupos de ureia e/ou uretano terminais da formula (i), processos para a producao das carbodimidias, composicao, processo para a producao da composicao, usos das carbodimidias, filmes, e massas de moldagem de poli amida (pa).

- Uj karbodiimidek, eljárás ezek előállítására és ezek alkalmazására.
- NOVAS CARBODI-IMIDAS, PROCESSOS PARA A SUA PRODUÇÃO E A SUA UTILIZAÇÃO.
- NOVAS CARBODI-IMIDAS, METODO PARA O SEU FABRICO E SUA UTILIZAÇÃO.
- Yeni karbodiimidler, üretilerine yönelik yöntem ve kullanımları.

TI O 新颖的碳二亚胺、其
生产方法及用途。
- 新規なカルボジイミ
ド、その生成の方法
およびその使用。
- 신규한 카보다이이미
드, 이의 제조 방법 및
용도.
- НОВЫЕ
КАРБОДИИМИ
ДЫ, СПОСОБ ИХ
ПОЛУЧЕНИЯ И

...

Set your own display formats

=> **FIL INPAFAMDB**

=> **SET FORMAT .myinpafam BRIEF PNO XPD FA**

=> **D FORMAT**

USER-DEFINED FORMAT DEFINITION

DEFAULT FORMAT FOR FILE

.MYINPAFAM

BRIEF PNO XPD FA

Specifying a display format can be done in any file.
The format name has to begin with a period (.).

Set your own display formats

=> **FIL INPAFAMDB**

=> **SET FORMAT .myinpafam BRIEF PNO XPD FA**

=> **D FORMAT**

USER-DEFINED FORMAT DEFINITION

DEFAULT FORMAT FOR FILE

.MYINPAFAM

BRIEF PNO XPD FA

=> **SET DFORMAT .MYINPAFAM**

=> **D FORMAT**

USER-DEFINED FORMAT DEFINITION

DEFAULT FORMAT FOR FILE

.MYINPAFAM

BRIEF PNO XPD FA

INPAFAMDB

Changes of the default display format have to be done in the respective file. For permanent changes, add PERM.

File-specific custom display formats

=> **D**

L1 ANSWER 1 OF 1 I NPAFAMDB COPYRIGHT 2020 EP0/FIZ KA on STN
AN 51499903 INPAFAMDB EWF 201619 UWF 202035 EDF 20160512 UPFB 20200827 UPFC 20170608
TI NEW CARBODIIMIDES, METHOD FOR THEIR MANUFACTURE AND USE OF SAME
INS LAUFER WILHELM, DE; VOLKER WENZEL, DE; WENZEL VOLKER, DE; WILHELM LAUFER,
DE
PAS LANXESS DEUTSCHLAND GMBH, DE
- RHEIN CHEMIE RHEINAU GMBH, DE
IPCI C07C0263-06; C07C0267-00; C07C0269-02; C07C0271-28; C07C0271-38;

...
AB The invention relates to novel carbodiimides having terminal urea and/or urethane groups, to processes for the production thereof and to the use thereof as a stabilizer in ester-based polymers especially in films for protection from hydrolytic degradation. (US20170334839 A1).

PATENT FAMILY INFORMATION INPAFAMDB

+----- Publications -----+		+----- Applications -----+	
AU 2015341876	A1 20170525	AU 2015-341876	A 20151103
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...
FA ABDE; ABEN; ABES; ABRF; ABOL; CPC; DAV; DS; DT; FCL; FTRM; IN; INO; INS; IPCI; IPCR; LA; LAF; LSDF; LSFT; LSIC; LSPA; LSPI; LSPMY; PA; PAO; PAS; PI; TIDE; TIEN; TIES; TIFR; TIOL; XPD

Changes in the display of bibliographic fields, e.g. ALL

AN 102894479 INPADOCDB ED 20200813 EW 202033 UP 20200903 UW 202036 Full-text
FN 62592328
TIDE L0eSLICHKEITSF0eRDERER FUeR STEVIOLGLYKOSID.
TL German
TIEN STEVIOL GLYCOSIDE SOLUBILITY ENHANCERS.
TL English
TIFR AMPLIFICATEURS DE SOLUBILITE DE GLYCOSIDE DE STEVIOL.
TL French
IN KHARE, Anil Bhagwan; YANG, Zheng
INS KHARE ANIL BHAGWAN, US; YANG ZHENG, US
PA Cargill, Incorporated
PAS CARGILL INC, US
DT Patent
PI EP 3691464 A1 20200812 English
DS R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT
LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
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PIT EPA1 APPLICATION PUBLISHED WITH SEARCH REPORT
DAV 20200812 examined- printed- without- grant
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XPD 20381008
AI EP 2018- 864292 A 20181008 EPA Patent application
PRAI US 2017- 62569279 P 20171006 USP Provisional application (Y, 20190418)
WO 2018- US54848 W 20181008 WOWW Additional PCT application (N, 20200521)
IPCI A23L0002- 56; A23L0002- 60; A23L0027- 00
CPC A23L0029- 25; A23L0002- 56; A23L0002- 60; A23L0027- 30; A23L0027- 00;
A23L0002- 60; A23L0002- 68; A23L0027- 36; A23L0027- 88; A23L0029- 212
FA CPC; DAV; DS; DT; IN; INS; INO; IPCI; LA; LSDF; PA; PAS; PI; TIEN; TIFR;
TIDE; XPD

Title and respective title language below

EP extension states are a subfield of DS

Application Kind Code Text (AIT) and Priority Kind Text (PRAIT) are displayed

Field codes explained for INPADOCDB (D ALL)

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 A23L0002- 60; A23L0002- 68; A23L0027- 36; A23L0027- 88; A23L0029- 212
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Entry Date (ED)
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 D UPALL (in INPAFAMDB)

Patent Assignee Standardized (PAS)

Date of availability (DAV)

Entry Date Priority (/EDPR)

Simple Family Indicator (Y/N)

Field Availability (FA), e.g. S L1 AND CPC/FA

Key takeaways

- STN offers *powerful retrieval options* to search INPADOC legal status in detail
 - variety of search fields and (L)-proximity operators
- INPADOC Legal status searching is *challenging*
 - legal event information varies from country to country
 - legal events vary for different time ranges for one authority
 - *Legal status categories* provide easy access to legal status information
- *Quality of search results* depends on availability and timeliness of legal event data
- *Calculated expiration dates* (XPD and XPY) for all authorities
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