

STN[®]

THE CHOICE OF PATENT EXPERTS[™]

I Didn't Know You Had That! -
Improving Your Search Results with Lesser
Known Data in STN[®] Databases





Agenda

- STN[®] Overview
- Digital Object Identifiers (DOI[®])
- Entry Dates, Articles in Press Coverage and Electronic Publication Dates
- Numeric Property Searching
- Left Truncation and the (T) operator
- INPADOC Calculated Expiration Dates

STN's unique content collection, unparalleled search power and proven reliability make it a premier choice for your searches

- STNext[™] is the newest STN platform
- Built on the classic STN[®] foundation, STNext delivers classic STN in a secure, browser-based interface
- STN is operated jointly by CAS and FIZ-Karlsruhe worldwide

STNext[™]

Digital Object Identifiers (DOIs)

What is a Digital Object Identifier (DOI)?

- A permanent and unique identifier for retrieving a digital publication
- A means to gain access to a digital publication
 - Provides access to publisher content on the publisher's web site
 - Click on a DOI in an STN record if hyperlinked
 - Copy the DOI into CrossRef's DOI resolver at www.crossref.org
- DOIs are included in the WIPO Standards for identification of electronic NPL documents in citations during patent prosecution
- For more information, visit The DOI[®] System <http://www.doi.org/>

Digital Object Identifiers can be searched and displayed on STN

- Over 18 million records in CAplus[™] include DOIs
 - CAS performs QA on all DOIs in CAplus
 - Over 100 corrections per week
 - DOI sources are publisher input and CrossRef
- DOIs are found in 26 databases in STN
 - Including Embase[™], SCISEARCH[®], MEDLINE[®], PQSCITECH, TOXCENTERSM, BIOSIS[®], CABA, METADEX, COMPENDEX, GEOREF, FSTA, and ENCOMPLIT
- Use STNGUIDESM to locate databases with DOIs
 - => [S DOI](#) or [FTDOI](#)

DOIs in FSTA and MEDLINE

AN 2018:N0509 FSTA Full-Text

TI Anaphylaxis to pumpkin seed.

SO Allergy (2017), Volume 72, 464 p., Suppl. S103, Abstracts from the European Academy of Allergy and Clinical Immunology Congress, 17-21 June 2017, Helsinki, Finland. ISSN: 0105-4538

DOI: 10.1111/all.13252

DT Journal

Depending on the database, DOIs can be found in the Source (SO) or Digital Object Identifier (DOI) fields.

AN 2019453455 MEDLINE (EPUB AHEAD OF PRINT) Full-Text

TI Prediction of the severity of allergic reactions to foods.

SO Allergy, (2018 Jan 30). Electronic Publication Date: 30 Jan 2018
Journal code: 7804028. E-ISSN: 1398-9995. L-ISSN: 0105-4538.

DOI <http://dx.doi.org/10.1111/all.13423>

DT Journal; Article; (JOURNAL ARTICLE)

Searching for DOI 10.1111/all.13252

[All](#)[News](#)[Images](#)[Videos](#)[Maps](#)[More](#)[Settings](#)[Tools](#)

About 6,270 results (0.50 seconds)

Poster Session TPS - - 2017 - Allergy - Wiley Online Library

<https://onlinelibrary.wiley.com/doi/full/10.1111/all.13252>

First published: 30 August 2017 Full publication history; DOI: [10.1111/all.13252](https://doi.org/10.1111/all.13252) View/save citation;

Cited by (CrossRef): 0 articles Check for updates. Citation ...


Poster Session TPS - - 2017 - Allergy - Wiley Online Library


<https://onlinelibrary.wiley.com/doi/abs/10.1111/all.13252>


Poster Session TPS. First published: 30 August 2017. <https://doi.org/10.1111/all.13252>. About.

Figures; References; Related; Information. ePDF PDF. PDF. ePDF ...


Searching for <http://dx.doi.org/10.1111/all.13423>

Wiley Online Library  [Login / Register](#)

Allergy EUROPEAN JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY 




ORIGINAL ARTICLE [Open Access](#) 

Prediction of the severity of allergic reactions to foods

M. E. Pettersson , G. H. Koppelman, B. M. J. Flokstra-de Blok, B. J. Kollen, A. E. J. Dubois

First published: 30 January 2018 | <https://doi.org/10.1111/all.13423> | Cited by: 3

Edited by: Cezmi Akdis

[Read the full text >](#)  PDF  TOOLS  SHARE

Abstract

Background

There is currently considerable uncertainty regarding what the predictors of the severity of diagnostic or accidental food allergic reactions are, and to what extent the severity of such reactions can be predicted.

Objective

To identify predictors for the severity of diagnostic and accidental food allergic reactions and to quantify their impact.

Methods

Volume 73, Issue 7
July 2018
Pages 1532-1540

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[Figures](#) [References](#) [Related](#) [Information](#)

Metrics

Citations: 3

 14

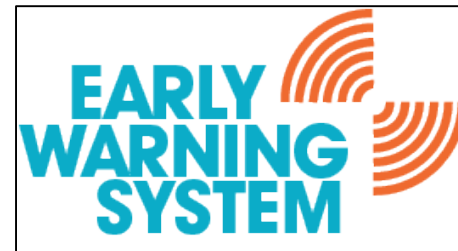
Entry Dates, Article in Press coverage, and Electronic Publication Dates

When searching NPL for validity and opposition cases, it's essential to know when an article was first available online

- When indexing was done exclusively from print, the ED (entry date) for the record into an online database was the best information available
- When primary publishers began to make Article in Press data available to database producers, the Entry Date mapped to an earlier date in the publication cycle

Article in Press coverage in STN databases means earlier awareness of discoveries and findings

- CAplus - “Ahead of print”/SO
- MEDLINE - “EPUB AHEAD OF PRINT”/FS
- Embase - Articles in Press/DT
- Volume, issue and pagination are usually unavailable when articles in press are initially added; DOIs are generally available



Though Article in Press records change over time, their Entry Dates do not change

- Records are updated as new information becomes available (reflected in the UP field)
- When the records mature:
 - The “Ahead of print”/SO, EPUB AHEAD OF PRINT/FS and ARTICLES IN PRESS/DT indexing disappears from the records
 - The Source information (volume, issue, pagination) becomes available
 - Indexing and/or classification data is added

Ahead of Print record in CPlus

AN 2018:597001 CAPLUS [Full-Text](#)
TI SET promotes H2Ak9 acetylation by suppressing HDAC1 in trichloroethylene-induced hepatic cytotoxicity
AU Lu,Weixue; Chen, Zhihong; Ren, Xiaohu; Liu, Wei; Deng, Rongxia; Yuan, Jianhui; Huang, Xinfeng; Zhu,Weiguo; Liu, Jianjun
CS School of Chemistry, Yuhu District, Xiangtan University, Hunan, 411105, Peop. Rep. China
SO Environmental Toxicology and Pharmacology (2018) Ahead of Print
CODEN: ETOEFR; ISSN: 1382-6689
PB Elsevier B.V.
DT Journal
LA English
ED Entered STN: 27 Mar 2018

Not all records have a publication date in the Source (SO) field. The Entry date (ED) field indicates when the record was added to STN.

Epub Ahead of Print record in MEDLINE

AN 2019650381 MEDLINE (EPUB AHEAD OF PRINT) Full-text
DN PubMed ID: 29578484
TI HSV-1-Specific IgG Subclasses Distribution and Serum Neutralizing Activity in Alzheimer's Disease and in Mild Cognitive Impairment.
AU Agostini Simone; Mancuso Roberta; Hernis Ambra; Costa Andrea Saul; Nemni Raffaello; Clerici Mario
SO Journal of Alzheimer's disease : JAD, (2018 Mar 23) . Electronic
Publication Date: 23 Mar 2018
Journal code: 9814863. E-ISSN: 1875-8908. L-ISSN: 1387-2877.
DOI <http://dx.doi.org/10.3233/JAD-170966>
DT Journal; Article; (JOURNAL ARTICLE)
FS EPUB AHEAD OF PRINT; NONMEDLINE; NONINDEXED; Print; Electronic
ED Entered STN: 26 Mar 2018
Last Updated on STN: 26 Mar 2018

The Electronic Publication Date is the earliest date a person could possibly find for an article

- Your lawyers will want to know about this date, and what it means!
- Corresponds to the date the publication - whether complete or incomplete - first appeared on the publisher's web site
- May be earlier than the date the publisher delivered the article to database producers
- **Tip:** To see if an Electronic Publication Date is available for a CAPLUS or EMBASE record, search its DOI in MEDLINE and display the EPD field or the BIB

In summary...

Publisher web site



Electronic Publication Date /EPD
February 9, 2018
(MEDLINE)

STN®





















Entry Date /ED
February 14, 2018
(CPlus)

Tip: If you are quoting an entry date, make sure you know what kind it is.

Numeric Property Searching is a unique feature on STN

- Available in multiple databases
 - Derwent World Patents Index®, most full-text patent databases
 - Engineering, food and agriculture databases
- Numeric property data processed from all English-language text fields, e.g., claims, have been made accessible for searching numbers and their units
 - About 1,800 property unit variants are identified
 - Numbers are considered from exact values, in closed ranges and open ranges

Eighteen STN databases now offer the Numeric Property Search (NPS) feature

Databases with the feature "NUMERIC PROPERTY SEARCH"		
1MOBILITY	Global Mobility Bibliographic database	 Summary Sheet
2MOBILITY	Global Mobility Standards database	 Summary Sheet
AEROSPACE	The Aerospace and High Technology database	 Summary Sheet
AGRICOLA	Food, agriculture and related fields database	 Summary Sheet
AUPATFULL	Australian patent applications and specifications	 Summary Sheet
CABA	CAB Abstracts file	 Summary Sheet
CANPATFULL	Canadian patent applications and specifications	 Summary Sheet
CNFULL	Chinese Applications, Patents, and Utility Models	 Summary Sheet
COMPENDEX	Computerized Engineering Index and EI Engineering Meetings	 Summary Sheet
DEFULL	German [Deutschland, DE] Patents FULLtext database	 Summary Sheet
ENCOMPAT / ENCOMPAT2	API EnCompass Patent Database	 Summary Sheet
FSTA	Food Science Technology Abstracts	 Summary Sheet
INFULL	Indian Patent Applications and Granted Patents	 Summary Sheet
JPFULL	Japanese Applications, Patents, and Utility Models	 Summary Sheet
METADEX	Metals Abstracts/Alloy Index	 Summary Sheet
PCTFULL	Patent Cooperation Treaty database	 Summary Sheet
PQSCITECH	ProQuest	 Summary Sheet
TULSA / TULSA2	Petroleum	 Summary Sheet
WPIDS	Derwent World	 Summary Sheet
WPINDEX	Derwent World	 Summary Sheet

A list of STN databases with the NPS feature:

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

This value-added feature requires extracting, normalizing and indexing numeric data

- Identified original data are normalized to base units and indexed for searching
 - 55 numeric property search fields with their respective base units are available
 - Additional units (CGS-units, imperial and US customary units) are converted to base units

The Power of Numeric Property Searching on STN

=> S 1-2 INCH/LEN

L1 634391 1-2 INCH/LEN

=> D KWIC 1-5

L1 ANSWER 1 OF 634391 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN

NOV NOVELTY - The spacer has a crescent-shaped plate provided with thickness of 1.5 mm, length of 40 mm and curvature ranging from 7 mm to 20 mm. Ends of the plate are formed with two through holes. . .

L1 ANSWER 2 OF 634391 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN

NOV . . . is connected to an upper holder in the form of an oval platform having a larger diameter of at least 1.5 cm and not more than 2.5 cm, and the smaller lower branches are. . .

L1 ANSWER 3 OF 634391 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN

Member . . .

drain hole.

[CLAIM 3] The fruit bag according to claim 1, wherein the width of the upper bag is at least 30 mm.

[CLAIM 4] The fruit bag according to claim 1, wherein the tear strip is 5 mm wide.

Note that different units are retrieved regardless of the unit used in the search query.

Keyword search with NPS

STNNext[™]

My Files

Jim Brown

Transcript ON

2018_0070_Transcript

File WPINDEX

L1 ANSWER 1 OF 13461 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN
TECH . . .

the tablet is prepared by a process comprising granulation step.
POLYMERS - Preferred Components: The HME grade hydroxypropyl
methylcellulose has a **glass transition temperature** of **115** degrees C.

L1 ANSWER 2 OF 13461 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN
NOV . . . acrylic monomer having a glass transition temperature of lower
than 0 degrees C and a hard acrylic monomer having a **glass transition
temperature** of **0** degrees C or higher at a weight ratio of 1: 1 to 1.5,
polyfunctional acrylate monomer having an unsaturated double.. . .

L1 ANSWER 3 OF 13461 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN
TECH . . .
and oxidized iodide in the second composition is less than or equal to 5
wt.%. The optical lens has a **glass transition temperature** of
80-125 degrees C and yellowness index of 5-15.
POLYMERS - Preferred Components: The polythiol is of formula (R1-S-R2)
(III). the Polythiol has. . .

History

CAS Lexicon

Databases

SessionEntered **HOME** 20:32:32 ON 28 AUG 2018Entered **WPINDEX** 20:32:43 ON 28 AUG 2018

L1 13461 S (GLASS TRANSITION
TEMPERATURE) (5A) 90-120
C/TEMP

⇒ enter command

Submit

Draw

Scripts

Truncation and searching word fragments
using the (T) operator

Don't overlook left truncation and simultaneous left and right truncation

- Left Truncation usable in the Basic Index of almost all STN files (~90%) with **?**, **!** and **#**
- In many databases simultaneous left and right truncation is possible
- Check the STN Basic Index for the term to be left-truncated:
=> **EXPAND LEFT *term***
lists all entries with a prefix to the expanded term

Left Truncation is a powerful retrieval tool

=> S ?ANALY?/BI

L2 862394 ?ANALY?/BI

=> S L2 NOT L1

L3 2131 L2 NOT L1

=> D KWIC 1 2

L3 ANSWER 1 OF 2131 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN

DETD . . . cancer in that subject;

(3) a predictive or diagnostic model based on levels of the panels of biomarkers;

(4) a multianalyte panel assay containing the set of reagents;

(5) a method for assessing the therapeutic efficacy of a cancer treatment, which. . .

L3 ANSWER 2 OF 2131 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN

TI Method for preventing cryptanalysis attack model attack based on authoritative internet protocol server, involves adding attack list into blacklist of server, and judging . . .

USE

USE - Method for preventing CC (RTM: Cryptanalysis attack model) attack based on authoritative DNS server.

Exploring The Index – How a Term Can Be Embedded

=> EXPAND LEFT ANALYSIS/BI

E1	1	ANALYSINGG/BI
E2	1	ANALYSINGIT/BI
E3	456127 -->	ANALYSIS/BI
E4	2	AANALYSIS/BI
E5	1	ACCURACYANALYSIS/BI
E6	1	ADEQUATEANALYSIS/BI
E7	1	AGREEMENTANALYSIS/BI
E8	1	ALANALYSIS/BI
E9	1	AMPEREOMETRICANALYSIS/BI
E10	2	ANALYSIS/BI
E11	5	ANDANALYSIS/BI
E12	269	AUTOANALYSIS/BI

=> E

E13	144	BIOANALYSIS/BI
E14	1	BIOCHEMICALANALYSIS/BI
E15	1	CELLULARANALYSIS/BI
E16	1	CESIUMANALYSIS/BI
E17	1	CHAOTICANALYSIS/BI
E18	1	CHEMICALANALYSIS/BI
E19	1	CHEMOLUMINISZENZANALYSIS/BI
E20	1	CLUSTERANALYSIS/BI
E21	1	COMPARATIVEANALYSIS/BI
E22	1	COMPONENTANALYSIS/BI
E23	1	COMPREHENSIVEANALYSIS/BI
E24	100	CRYPTANALYSIS/BI

Even More Precise: Combining Terms Within One Word

- The (T) Operator is useful for chemical name or basic index searching
- Keyword searching
 - ⇒ **S ?CHLORO?(T)?FLUORO?(T)?BENZEN?**
 - ⇒ **S ?CHLORO?(1T)?FLUORO?(1T)?BENZEN?**
 - (T) - search terms must occur in a single hit term
 - (1T) - search terms must occur in a single hit term, or adjacent
 - Truncation is required

A Chemical Name Search with the (T) Operator

```
=> S (?CHLORO?(T)?FLUORO?(T)?BENZEN?)/BI
      516232 ?CHLORO?/BI
      447619 ?FLUORO?/BI
      303153 ?BENZEN?/BI
L4      179 (?CHLORO?(T)?FLUORO?(T)?BENZEN?)/BI
```

```
=> D KWIC 2 3
```

```
L4 ANSWER 2 OF 179 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN
TECH . . .
```

chosen from 1-6C (halo)alkyl group, 1-6C (halo)alkoxy group, halogen atoms, cyano group, and amino group. The guest molecules preferably contain 4-chlorofluorobenzene, 4-bromofluorobenzene, or 4-iodofluorobenzene.

```
L4 ANSWER 3 OF 179 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN
NOV . . . 10-30 hours, reacting the mixture at 220-250 degrees C for 25-40
hours, and distilling. The reaction substrate is trichlorobenzene or
3,5-difluorochlorobenzene.
```

(T) Operator example (cont.)

```
=> S (?CHLORO?(1T)?FLUORO?(1T)?BENZEN?)/BI
```

```
516232 ?CHLORO?/BI
```

```
447619 ?FLUORO?/BI
```

```
303153 ?BENZEN?/BI
```

```
L5 739 (?CHLORO?(1T)?FLUORO?(1T)?BENZEN?)/BI
```

```
=> S L5 NOT L4
```

```
L6 560 L5 NOT L4
```

```
=> D KWIC 5 7
```

```
L6 ANSWER 5 OF 560 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN  
DETD . . . times mass of (II) and then distilling off dichloromethane to  
obtain 2-chloro-1-(3,4-difluorophenyl)ethanone of formula (III), where the  
molar ratio between o-difluorobenzene, chloroacetyl chloride and  
aluminum chloride is 1:1-1.2:1-1.2, (ii) stirring (III), glucose and  
water, adjusting pH value to 6.5-7.5 with 20% sodium.. . .
```

(T) Operator example (cont.)

- L6 ANSWER 7 OF 560 WPINDEX COPYRIGHT 2018 CLARIVATE ANALYTICS on STN
- TI Preparation of preparation of N1-(2-amino-4-(trifluoromethyl)phenyl)-N1-phenyl-4-(trifluoromethyl)benzene-1,2-diamine involves nucleophilic substitution of chlorine atom in 2-nitro-4-(trifluoromethyl)chlorobenzene by reaction with aniline
- NOV NOVELTY - An N1-(2-amino-4-(trifluoromethyl)phenyl)-N1-phenyl-4-(trifluoromethyl)benzene-1,2-diamine is prepared by nucleophilic substitution of chlorine atom in 2-nitro-4-(trifluoromethyl)chlorobenzene by reaction with aniline or its derivatives in dimethyl sulfoxide (DMSO) in presence of tributylamine at 80 degrees C and. . .
- DETD DETAILED DESCRIPTION - An N1-(2-amino-4-(trifluoromethyl)phenyl)-N1-phenyl-4-(trifluoromethyl)benzene-1,2-diamine is prepared by nucleophilic substitution of chlorine atom in 2-nitro-4-(trifluoromethyl)chlorobenzene by reaction with aniline or its derivatives in dimethyl sulfoxide (DMSO) in presence of tributylamine at 80 degrees C and sonication of 2.5 hours in which molar ratio of 2-nitro-4-(trifluoromethyl)chlorobenzene to 4-R-aniline is 2:1, reducing 2-nitro-N-(2-nitro-4-(trifluoromethyl)phenyl)-N-(4-R-phenyl)-4-(trifluoromethyl)anilines (R is hydrogen, bromine, chlorine, fluorine or methyl) in mixture of alcohol and 9%.. . .

Calculated Expiration Dates in INPADOC

Calculated expiration dates in INPADOC for FTO searches



.....

- For granted publications of 41 major patent authorities
- Available for 98.5 % of all granted patents filed since 1980
- More than 400 rules operate behind the scenes, considering
 - patent laws and patent law changes
 - determination of earliest effective filing date

See online help [HELP XPD](#) for more information; similar feature exists in IFICLS

Calculated expiration date search and display

- Calculated expiration date is included in all standard display formats, **BIB**, **ALL**, **MAX**, etc.
 - The custom display field **XPD** is also available
- Calculated expiration date (**/XPD**) and year (**/XPY**) search options are available:

=> S 20131020/XPD

=> S 20140601-20150601/XPD

=> S XPD>20121001

=> S 2013-2016/XPY

Specific expiration dates/years or ranges may be searched.

Expiration dates and years can also be analyzed (see later)

Example: Calculated expiration date of a divisional patent

=> FILE INPADOCDB

=> S C12N0015-79+NT/IPC,CPC AND GRANTED/STA AND PIONEER/PASS
L1 2549 C12N0015-79+NT/IPC,CPC AND PIONEER/PASS

=> D BIB

L1 ANSWER ... OF 2549 INPADOCDB COPYRIGHT 2014 EPO/FIZ KA on STN

AN 70775318 INPADOCDB ED 20130912 EW 201337 UP 20130926 UW 201339

TI Dominant gene suppression transgenes and methods of using same.

IN CIGAN, ANDREW; HERSHEY, HOWARD P.; WU, YONGZHONG; FOX, TIMOTHY W.; ..

PA PIONEER HI-BRED INTERNATIONAL, INC.

PI AU 2012227186 B2 20130905 English

PIT AUB2 PATENT PRECEDED BY A or PATENT PROCEDED BY OPI [FRO

STA GRANTED

AI AU 2012-227186 A 20120919

PRAI AU 2011-265403 A 20111221 (AUA3, 20120816, Y)

AU 2012-227186 A 20120919 (AUA, 20121025, N)

PRAIT AUA3 Prior application claimed for a division

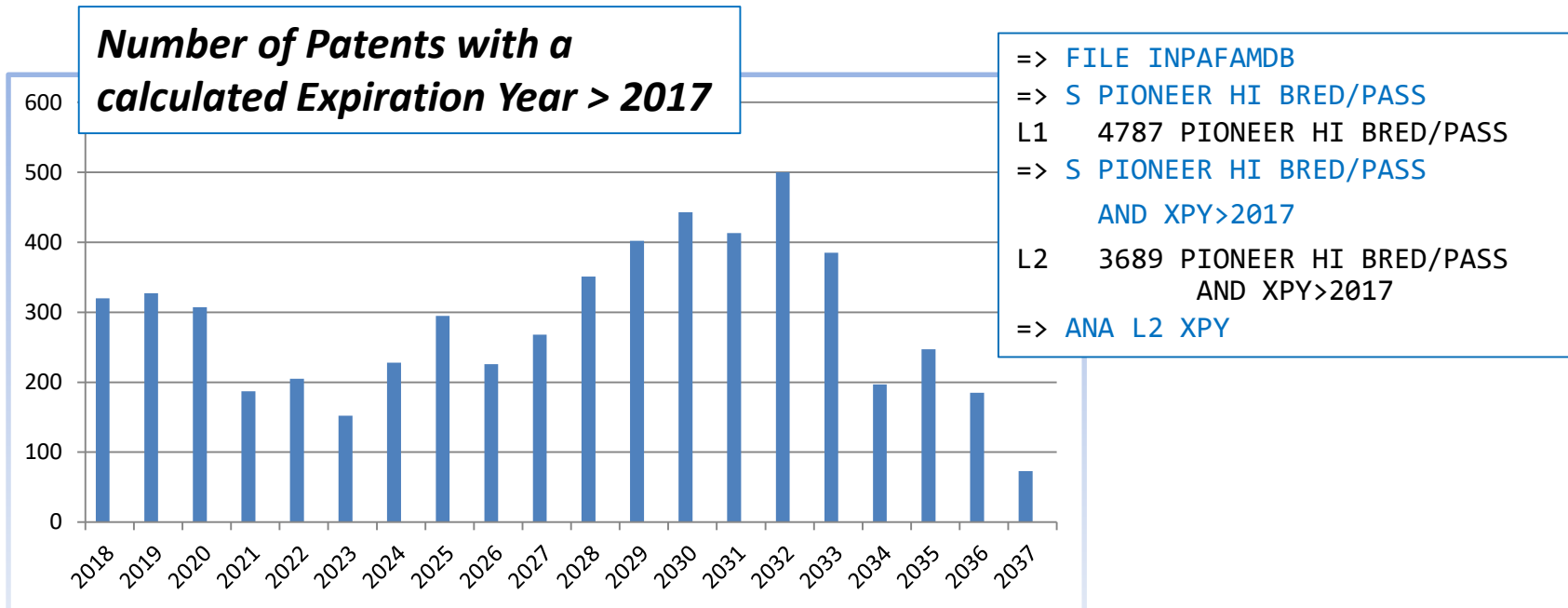
XPD 20311221

REC 2. THERE ARE 2 CITED REFERENCES (0 PATENT, 2 NON PATENT) AVAILABLE
FOR THIS RECORD. ALL CITATIONS ARE AVAILABLE IN THE RE FORMAT.

AU 2012227186 B2 is a
divisional patent with an
effective filing date of 21st
Dec 2011.

XPD = Expiration date.

Pioneer Hi-Bred Patent Publications potentially in force



Summary

- Use Digital Object Identifiers (DOIs) to find digital NPL
- For validity and opposition searches, use STN to determine when articles first became available online in one of our databases or on the publisher's web site
- STN's value-added Numeric Property Searching feature simplifies searching for numerous properties and is unique to STN
- Use the (T) operator and truncation to search for chemical name fragments in chemical names
- The Calculated Expiration Date data in INPADOC is unique to STN and is based on our expert knowledge of patent laws per country



For more information ...

CAS

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helpdesk@fiz-karlsruhe.de

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www.stn-international.de