



DPCI Reference Manual

STN Online user guide

Derwent Patent Citation Index™ produced by Thomson Reuters (Professional)

STN

 **FIZ Karlsruhe**

Leibniz Institute for Information Infrastructure

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INTRODUCTION

Derwent Patents Citation Index™ (*DPCI*) is a unique database containing citations of patents and literature including those referenced by the examiner, inventor/author, or opposition/third party during the determination of patentability. It is patent family based highlighting retrospective technological origins of an invention as well as its impact on future technology

DPCI provides access to patent and literature citations found in more than 10.6 million patent families. Every week, new citations, both patent and literature, from about 10,000 documents are added to the file.

DPCI contains bibliographic patent family data from the *Derwent World Patents Index* and all patents and literature cited, as well as references to citing patents. A list of Thomson Scientific assigned company codes for patent assignees matched with company names is available as an online thesaurus.

Coverage includes all patent-relevant areas of science and technology.

Each record in the database describes a patent family for a single invention. Patent citations referenced in the patent documents are called “cited” patents in the *DPCI* record. When a citation references an older invention/patent, it is also added to the older family record as a “citing” patent. The *DPCI* record provides a view of retrospective technology for an invention (cited patents) and its impact on subsequent technology (citing patents).

You can also cross-reference into *Derwent World Patents Index (DWPI)* for more information about patent citations of interest. Applications for *DPCI* include novelty searching, gathering documentation to support patent applications, and monitoring for patent infringements by yourself or a competitor.

Features

- More than 10.6 million records in the database
- Russian patent citations from August 2009
- Korean patent citations from January 2010
- Philippines patent citations from January 2010
- German inventor and post grant citations
- EP opposition and third party citations
- Publication dates provided for citing and cited patents
- *DPCI* update indicator – enabling alerts to be set up
- Reliable citations counts of patent and literature citations - used in data analysis
- Covers patent citation information from 23 sources (see details below)
- Bibliographic information with enhanced patent titles.
- Each record includes a listing of any other patent in the database which cites it ("citing patents")
- Extensive cross-filing capabilities, e.g. *DPCI* has the same accession number as *DWPI*.

- Extra data (e.g. assignee, inventors) given for cited/citing patents
- Updated weekly (52 per year)

DPCI Coverage

The new *DPCI* has been enhanced over the previous version (PCI) and now provides patent citation information from 23 sources as detailed below:

Country	Start Date	Previous Coverage
Australia (AU)	January 1993	05/94 - 05/97
Belgium (BE)	January 1988	05/94 - 05/97; 03/07 to date
China (CN)	January 2010*	Not covered
Czech Republic (CZ)	June 2006	Not covered
European (EP)	December 1978	No change
France (FR)	January 1974	05/94 - 05/97; 03/07 to date
Germany (DE)	January 1974	05/94 to date
Japan (JP)	January 1994	05/94 to date
Korea (KR)	January 2008	01/10 to date
Luxembourg (LU)	July 1999	Not covered
Malaysia (MY)	January 2010*	Not covered
Netherlands (NL)	January 1974	05/94 - 05/97; 03/07 to date
PCT (WO)	October 1978	No change
Philippines (PH)	November 2009	01/10 to date
Russia (RU)	June 2009	No change
Singapore (SG)	March 2001	01/10 to date
Spain (ES)	January 1993	03/07 to date
Switzerland (CH)	January 1986	05/94 - 05/97
United Kingdom (GB)	January 1979	05/94 to date
United States (US)	January 1970	01/73 to date

*Will appear in early 2011

Limited Coverage is included for the following:

Country	Start Date	End Date	Previous Coverage
Austria (AT)	March 1994	May 1996	No change
Canada (CA)	January 1994	Jul 1996	No change
Sweden (SE)	April 1994	Sep 1996	No change

A SAMPLE RECORD

L1 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AN 2005-766320 [200578] DPCI
TI Spray characteristic measuring apparatus, for spraying systems, has transport that is coupled to and moves load cell to detection locations within spray
IN CHINN P; ROBB L; TANNER K
PA (SPRA-N) SPRAYING SYSTEMS CO
CYC 1
PI US 20050241367 A1 20051103 (200578)* EN 24[18]
US 6962070 B1 20051108 (200578) EN
ADT US 20050241367 A1 Provisional US 2004-565997P 20040428; US 20050241367 A1
US 2004-897772 20040723
PRAI US 2004-897772 20040723
US 2004-565997P 20040428

CTS CITATION COUNTERS

PNC.D 5 Cited Patents Count
PNC.G 5 Citing Patents Count
IAC.D 1 Cited Issuing Authority Count
IAC.G 3 Citing Issuing Authority Count
CRC 0 Cited Literature Reference Count
OSC.D 5 Cited Patent WPI Accession Number Count
OSC.G 5 Citing Patent WPI Accession Number Count

EXAMINERS FIELD OF SEARCH

NCL 101008000; 239172000; 239432000; 451259000; 711001000; 73119A000;
731002070; 731068000; 7381-85000; 738061355; 738065900; 744028000

Citations

Cited Publication By Accession Number

US 3512397 A E 1970-36274R
US 5753806 A E 1998-272381
US 6398719 B1 E 2000-516058
US 6457655 B1 E 2001-259503
US 6742730 B2 E 2002-303530

Citings

Citing Publication By Accession Number

FR 2918417 A1 E 2009-B19470
FR 2928731 A3 EI 2009-N73613
US 7404408 B2 E 2006-351975
WO 2009010780 A1 E 2009-E04019
WO 2010054416 A1 E 2010-F35661

SEARCH AND DISPLAY IN THE DPCI

The *DPCI* database is meant as a companion file to the *DWPI* and is amenable to extensive citation searching. Clearly focussing on citations makes for a leaner and easier to use database. Therefore classification data like the International Patent Classification or text data have only been provided in the database to a very limited extent. The main access point to the wealth of citation data is likely to be either patent assignee or inventor data or document identifiers already known to the searcher. For convenience the Derwent value-added title is provided with each invention. Exploiting citation relationships can serve to explore the wider background of an invention for technology survey or possible infringements beyond the patent family, but it can also serve to monitor competitors, or compile statistics on technology trends etc.

The Basic Index

The Basic Index at STN generally conveniently gathers all words from value-added text into one field and permits general subject searching without the necessity of using search qualifiers. In *DPCI* it contains single words from the Thomson Scientific value-add title. Punctuation has been removed from the index. In addition simultaneous left-and-right truncation (SLART) is allowed in the basic index. Please note that the truncated stem has to consist of at least four characters when left truncation is used.

The hierarchy of data

For precision searches STN provides an array of proximity operators interrogating the hierarchical relationships between pieces of data. In order to be able to fully exploit the inventory an understanding of the proximity structure laid down in the database is important.

The proximity assignments in *DPCI* for the bibliographic data follow the scheme employed for *DWPI* as far as possible, yet in *DPCI* there are no individual publications available, and there is citation data additionally available.

Paragraph proximity

The collated information in a *DPCI* document is divided into logical units or sections. Each logical unit owns a distinct spate of paragraph values.

Logical units of significance with respect to proximity assignment are listed below. Some are common to *DWPI*, yet the additionally available patent citation, literature citation and citing patents data reside in their own logical units.

- Patent Assignees
- Inventors
- Publications
- Application Details
- Related Details
- Priority Details
- Derwent Enhanced Title
- Patent Citations
- Literature Citations
- Citing Patents

Each logical unit sub-element, e.g. the information pertaining to an individual patent publication receives a distinct paragraph value. This enables one to use the paragraph proximity operator to assemble data pertaining to an individual patent publication, e.g. patent kind code and publication date. In this sense one paragraph proximity value has been assigned to the following entities:

- Each Patent Assignee i.e. PA, PACO
- Each Inventor i.e. IN
- Each publication i.e. PC, PN, PK, DW, LA, PGN, DRWN, PD, PY, PT, DS
- Each application detail i.e. AC, AP, APTS, APT, AD, AY, PC, PK, PN
- Each filing detail i.e. FDT, PC, PN, PK
- Each priority i.e. PRC, PRN, PRD, PRDF, PRTS, PRY, PRYF
- The enhanced title TI
- The patent citations for an individual patent publication
- The literature citations for an individual patent publication
- The citing patents for an individual patent publication.

Use (P) proximity to confine searches to sub-elements of logical units like patent citations pertaining to an individual patent publication.

Sentence proximity

Sentence proximity has been assigned to sub-divisions of the paragraph ranges given above.

Areas where use of (S) may be of significance are:

- Each Patent Assignee Name
- Each title part
- Sub-elements of citation data for an individual patent publication e.g. cited patent assignee names.

Use the (S) proximity operator to confine the searches to the patent assignee name or a part of the title.

Word proximity

Word-proximity has literally been assigned to each word where 'word' is sometimes synonymous with finest granularity information unit, e.g. one patent publication number or an IPC in the examiner field of search. This has implications for the positive identification of search terms (highlighting), but can also be a powerful base for retrieval using the various operators interrogating the word proximity values. By using SLART (Simultaneous Left And Right Truncation) in conjunction with the Term (T) operator it is actually possible to assemble words from their constituent fragments.

```
=> s (?benzo? (t) ?quinolin?)/ti
      27571 ?BENZO?/TI
      6145 ?QUINOLIN?/TI
L2      32 (?BENZO? (T) ?QUINOLIN?)/TI
```

```
=> d 1,9,25 ti
```

```
L2 ANSWER 1 OF 32 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
```

```
TI Light emitting element material for light emitting element used for
electrophotographic machine and display element, has specific
phenanthroline structure or benzoquinoline structure
```

```
L2 ANSWER 9 OF 32 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
```

```
TI New di:hydro-methanobenzocyclooctaquinoline cpds. and azo dyestuff cpd
- their prepn. and use as azoic coupler and for dyeing esp. wool and
polyamide
```

```
L2 ANSWER 25 OF 32 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
```

```
TI Benzocycloheptaisoquinoline derivs - CNS depressants, anticonvulsants
and antiinflammatory agents
```

Use (A) and (W) proximity operators for interrogating adjacent or following word proximities. Use (T) for assembling words from fragments, and for attaching roles to structure identifiers.

Searching for citations

The entry point into citation searching may be a document identifier like a patent publication number, or a patent assignee's or inventor's name. Once a citation document has been identified this can be used to fan out to related patent documents by leveraging the backward and forward chaining citation data related to it. Possible scenarios may be:

1. Retrieve all citations for a particular invention.
2. Retrieve all *DPWI* documents for patent publications being cited or citing a particular invention.
3. Retrieve all patents which are citing a particular patent since these may be related.
4. Retrieve all inventions citing the same patents as mine, since they may be patenting on a closely related field of technology.
5. Retrieve all patent assignees which are citing my parent company.
6. Which are the most heavily cited publications or patent assignees for a given invention or a technical field?
7. Which are the most heavily citing publications for a given invention or patent assignee?

In the following methodologies to explore these possible scenarios are being elaborated on.

1. Let us assume we have identified WO2003050175 as a patent publication we want to explore cited publications for.

a. Identify the parent DWPI document

```
=> s wo2003050175/pn
L1          1 WO2003050175/PN
           (WO2003050175/PN)

=> d

L1  ANSWER 1 OF 1  WPIX COPYRIGHT 2011          THOMSON REUTERS on STN
AN  2003-598075 [200356]  WPIX
DNC  C2003-162152 [200356]
TI   Flame retardant composition for use in, e.g. roofing membranes, comprises
     mixture of at least one low- and high molecular weight sterically hindered
     alkoxyamine stabilizer, and at least one conventional flame retardant
DC   A60; E19
IN   CAPIOCCI G A; CAPOCCI G A; KAPRINIDIS N; KING R E; LELLI N; ZINGG J;
     CAPOCCI G; KING R
PA   (CIBA-C) CIBA SC HOLDING AG; (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC;
     (CAPO-I) CAPOCCI G A; (KAPR-I) KAPRINIDIS N; (KING-I) KING R E; (LELL-I)
     LELLI N; (ZING-I) ZINGG J; (CIBA-C) CIBA HOLDING INC
CYC  102
PI   WO 2003050175  A2 20030619 (200356)* EN 98[0]          <--
     US 20030207969  A1 20031106 (200374)  EN
     AU 2002358584   A1 20030623 (200420)  EN
     EP 1465943      A2 20041013 (200467)  EN
     KR 2004074072   A 20040821 (200501)  KO
     JP 2005511842   T 20050428 (200530)  JA 84
     CN 1602334      A 20050330 (200547)  ZH
     TW 2003001282   A 20030701 (200556)  ZH
     AU 2002358584   A8 20051103 (200629)  EN
     US 20060197069  A1 20060907 (200659)  EN
     TW 281931       B1 20070601 (200832)  ZH
     EP 1465943      B1 20090114 (200909)  EN
     KR 873719       B1 20081212 (200914)  KO
     DE 60230922     E 20090305 (200917)  DE
     ES 2318059      T3 20090501 (200943)  ES
     JP 4406869      B2 20100203 (201011)  JA 58
ADT  WO 2003050175 A2 WO 2002-EP13664 20021203; US 20030207969 A1 Provisional
     ... JP 4406869 B2 JP 2003-551197 20021203
FDT  DE 60230922 E Based on EP 1465943 A; ES 2318059 T3 Based on EP 1465943 A;
     KR 873719 B1 Previous Publ KR 2004074072 A; AU 2002358584 A1 Based on WO
     2003050175 A; EP 1465943 A2 Based on WO 2003050175 A; JP 2005511842 T
     Based on WO 2003050175 A; AU 2002358584 A8 Based on WO 2003050175 A; EP
     1465943 B1 Based on WO 2003050175 A; KR 873719 B1 Based on WO 2003050175
     A; DE 60230922 E Based on WO 2003050175 A; JP 4406869 B2 Previous Publ JP
     2005511842 T; JP 4406869 B2 Based on WO 2003050175 A
PRAI US 2001-339099P 20011210
     US 2002-416625P 20021007
     US 2002-313754 20021206
     US 2006-397273 20060404
IC   ICM C08K005-00; C08K005-34; C08K005-3432; C08L101-00
     ICS C08K005-02; C08K005-49
IPCI C08K0005-00 [I,A]; C08K0005-00 [I,A]; C08K0005-00 [I,A]; C08K0005-00
     [I,A]; C08K0005-00 [I,C]; C08K0005-00 [I,C]; C08K0005-00 [I,C];
     C08K0005-00 [I,C]; C08K0005-34 [I,A]; C08K0005-34 [I,A]; C08K0005-3435
     [I,A]; C08K0005-3492 [I,A]; C08L0023-00 [I,A]; C08L0023-00 [I,C];
     C09K0021-00 [I,A]; C09K0021-00 [I,C]
IPCR C08K0005-00 [I,A]; C08K0005-00 [I,C]; C08K0005-00 [I,C]; C08K0005-17
     [I,A]; C08K0005-32 [I,A]; C08K0005-34 [I,A]; C08K0005-3432 [I,A];
     C08K0005-3435 [I,A]; C08L0101-00 [I,A]; C08L0101-00 [I,C]
```

b. Crossing over to *DPCI* will retrieve the citation record:

COST IN EUROS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	0,41	0,41

FILE 'DPCI' ENTERED AT 13:59:01 ON 11 JAN 2011
COPYRIGHT (C) 2011 THOMSON REUTERS

FILE LAST UPDATED: 09 JAN 2011 <20110109/UP>
DERWENT PATENTS CITATION INDEX, COVERS 1973 TO DATE

=> s 2003-598075 /an
 L2 1 2003-598075 /AN

c. Check how many citations are available for this particular record:

CTCS CITATION COUNTERS

```

-----
PNC.D      6      Cited Patents Count (total)
PNC.DI     0      Cited Patents Count (by inv.)
PNC.DX     6      Cited Patents Count (by exam.)
PNC.DO     0      Cited Patents Count (in opp. doc.)
PNC.DTH    0      Cited Patents Count (third party)
PNC.DUN    0      Cited Patents Count (undefined)
IAC.D      4      Cited Issuing Authority Count (total)
IAC.DI     0      Cited Issuing Authority Count (by inv.)
IAC.DX     4      Cited Issuing Authority Count (by exam.)
IAC.DO     0      Cited Issuing Authority Count (in opp. doc.)
IAC.DTH    0      Cited Issuing Authority Count (third party)
IAC.DUN    0      Cited Issuing Authority Count (undefined)

PNC.G      6      Citing Patents Count (total)
PNC.GI     0      Citing Patents Count (by inv.)
PNC.GX     6      Citing Patents Count (by exam.)
PNC.GO     0      Citing Patents Count (in opp. doc.)
PNC.GTH    0      Citing Patents Count (third party)
PNC.GUN    0      Citing Patents Count (undefined)
IAC.G      3      Citing Issuing Authority Count (total)
IAC.GI     0      Citing Issuing Authority Count (by inv.)
IAC.GX     3      Citing Issuing Authority Count (by exam.)
IAC.GO     0      Citing Issuing Authority Count (in opp. doc.)
IAC.GTH    0      Citing Issuing Authority Count (third party)
IAC.GUN    0      Citing Issuing Authority Count (undefined)

CRC        3      Cited Literature Reference Count (total)
CRC.I      0      Cited Literature Reference Count (by inv.)
CRC.X      3      Cited Literature Reference Count (by exam.)
CRC.O      0      Cited Literature Reference Count (in opp. doc.)
CRC.TH     0      Cited Literature Reference Count (third party)
CRC.UN     0      Cited Literature Reference Count (undefined)

OSC.D      5      Cited Patent WPI Accession Number Count (total)
OSC.DX     5      Cited Patent WPI Accession Number Count (by exam.)
OSC.DI     0      Cited Patent WPI Accession Number Count (by inv.)
OSC.DO     0      Cited Patent WPI Accession Number Count (in opp. doc.)
OSC.DTH    0      Cited Patent WPI Accession Number Count (third party)
OSC.DUN    0      Cited Patent WPI Accession Number Count (undefined)
OSC.G      6      Citing Patent WPI Accession Number Count (total)
OSC.GX     6      Citing Patent WPI Accession Number Count (by exam.)
OSC.GI     0      Citing Patent WPI Accession Number Count (by inv.)
OSC.GO     0      Citing Patent WPI Accession Number Count (in opp. doc.)
OSC.GTH    0      Citing Patent WPI Accession Number Count (third party)
OSC.GUN    0      Citing Patent WPI Accession Number Count (undefined)

```

d. Display the citations

=> d citn

L2 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

CDP Cited Patents

```

-----
Citing Publication   By   Cat   Cited Patent           Date           Accession Number
-----
WO--2003050175 A2   E    A     EP-----1038912 A2     2000-613310
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: HORSEY D W
E    X     US-----5844026 A     1999-044656
PA: (CIBA-C) CIBA SPECIALTY CHEM CORP
IN: GALBO J P; GRACE H C; HORSEY D W; SOLERA P;
SRINIVASAN R
E    A     WO--1999000450 A1     1999-095705
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: ANDREWS S M; ANDREWS, Stephen, Mark; DAVIS L H;
DAVIS, Leonard, Harris; DYAS D D; DYAS, Darrell,
David, Jr.; GRAY R L; GRAY, Robert, Leo; GUPTA A;

```

GUPTA, Anunay; HEIN B V; HEIN, Bruce, Vincent;
HORSEY D W; HORSEY, Douglas, Wayne; PUGLISI J S;
PUGLISI, Joseph, Steven; RAVICHANDRAN R;
RAVICHANDRAN, Ramanathan; SHIELDS P; SHIELDS, Paul;
SRINIVASAN R; SRINIVASAN, Rangarajan

EP-----1465943 B1 E EP-----1038912 A2 2000-613310
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: HORSEY D W
E US-----5844026 A 1999-044656
PA: (CIBA-C) CIBA SPECIALTY CHEM CORP
IN: GALBO J P; GRACE H C; HORSEY D W; SOLERA P;
SRINIVASAN R
E WO--1999000450 A1 1999-095705
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: ANDREWS S M; ANDREWS, Stephen, Mark; DAVIS L H;
DAVIS, Leonard, Harris; DYAS D D; DYAS, Darrell,
David, Jr.; GRAY R L; GRAY, Robert, Leo; GUPTA A;
GUPTA, Anunay; HEIN B V; HEIN, Bruce, Vincent;
HORSEY D W; HORSEY, Douglas, Wayne; PUGLISI J S;
PUGLISI, Joseph, Steven; RAVICHANDRAN R;
RAVICHANDRAN, Ramanathan; SHIELDS P; SHIELDS, Paul;
SRINIVASAN R; SRINIVASAN, Rangarajan

KR-----873719 B1 Undef EP-----1038912 A2 2000-613310
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: HORSEY D W
Undef JP----11080569 A 1999-044656
PA: (CIBA-C) CIBA SPECIALTY CHEM CORP
IN: GALBO J P; GRACE H C; HORSEY D W; SOLERA P;
SRINIVASAN R
Undef WO--1999000450 A1 1999-095705
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: ANDREWS S M; ANDREWS, Stephen, Mark; DAVIS L H;
DAVIS, Leonard, Harris; DYAS D D; DYAS, Darrell,
David, Jr.; GRAY R L; GRAY, Robert, Leo; GUPTA A;
GUPTA, Anunay; HEIN B V; HEIN, Bruce, Vincent;
HORSEY D W; HORSEY, Douglas, Wayne; PUGLISI J S;
PUGLISI, Joseph, Steven; RAVICHANDRAN R;
RAVICHANDRAN, Ramanathan; SHIELDS P; SHIELDS, Paul;
SRINIVASAN R; SRINIVASAN, Rangarajan

JP-----4406869 B2 E JP----08245619 A 1996-223961
PA: (CIBA-C) CIBA GEIGY AG
IN: BORZATTA V; SCRIMA R
E JP----11080569 A 1999-044656
PA: (CIBA-C) CIBA SPECIALTY CHEM CORP
IN: GALBO J P; GRACE H C; HORSEY D W; SOLERA P;
SRINIVASAN R
E JP--2001261899 A 2002-158101
PA: (DAIH-C) DAIHACHI CHEM IND CO LTD
IN: OTSUKI K; OTSUKI KATSUICHI; TSUJI H; TSUJI HIROSHI
E WO--1999000450 A1 1999-095705
PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
IN: ANDREWS S M; ANDREWS, Stephen, Mark; DAVIS L H;
DAVIS, Leonard, Harris; DYAS D D; DYAS, Darrell,
David, Jr.; GRAY R L; GRAY, Robert, Leo; GUPTA A;
GUPTA, Anunay; HEIN B V; HEIN, Bruce, Vincent;
HORSEY D W; HORSEY, Douglas, Wayne; PUGLISI J S;
PUGLISI, Joseph, Steven; RAVICHANDRAN R;
RAVICHANDRAN, Ramanathan; SHIELDS P; SHIELDS, Paul;
SRINIVASAN R; SRINIVASAN, Rangarajan

REN Literature Citations

Citing Publication	By	Cat	Literature Reference
WO--2003050175 A2	E	A	SRINIVASAN R ET AL: "A REVOLUTIONARY UV STABLE FLAME RETARDANT SYSTEM FOR POLYOLEFINS" INTERNATIONAL CONFERENCE ON ADDITIVES FOR POLYOLEFINS, XX, XX, 1998, pages 69-83, XP001147531
	E	A	SRINIVASAN R ET AL: "A REVOLUTIONARY UV STABLE FLAME RETARDANT SYSTEM FOR POLYOLEFINS" INTERNATIONAL CONFERENCE ON ADDITIVES FOR POLYOLEFINS, XX, XX, 1998, pages 69-83, XP001147531
EP-----1465943 A2	E		See references of WO 03050175A2
EP-----1465943 B1	E		SRINIVASAN R ET AL: "A REVOLUTIONARY UV STABLE FLAME RETARDANT SYSTEM FOR POLYOLEFINS" INTERNATIONAL CONFERENCE ON ADDITIVES FOR POLYOLEFINS, XX, XX, 1998, pages 69-83, XP001147531

CGP Citing Patents

Cited Publication	By	Cat Citing Patent	Date	Accession Number
WO--2003050175 A2	E	A WO--2005049716 A1		2009-K40006
		PA: (INPE-N) INDIAN PETROCHEMICAL CORP; (RELI-N) RELIANCE IND LTD		
		IN: BANERJI S; CHOUDHARY M S; KULSHRESHTHA A K; XAVIER S F		
	E	A WO--2005090307 A1		2005-758288
US-20030207969 A1		PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC		
		IN: BRAIG A; BRAIG, Adalbert; FREY M; FREY, Markus; KRAMER A; KRAMER, Andreas; RAST V; RAST, Valerie		
	E	X WO--2009009006 A1		2009-B36615
		PA: (SUPR-N) SUPRESTA LLC		
US-20030207969 A1		IN: STOWELL J K		
	E	US-----7109260 B2		2004-411164
		PA: (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC		
		IN: KAPRINIDIS N; KAPRINIDIS, Nikolas; LELLI N; LELLI, Nicola		
JP--2005511842 W	E	US-----7678852 B2		2009-A43390
		PA: (CIBA-C) CIBA HOLDING INC		
		IN: KAPRINIDIS N		
	E	JP-----4158559 B2		2004-711691
	PA: (TOXW-C) TOYO INK MFG CO LTD			
	IN: KANO Y; KANO YOSHINORI; KUWABARA A; KUWABARA AKIFUMI			

2. Retrieve all *DWPI* documents for patent publications cited in or citing the invention document containing WO2003050175.

a to b same as 1.a to b

c. Select the cited and citing patent numbers:

```
=> sel l2 1 pn.d pn.g
E1 THROUGH E12 ASSIGNED
```

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=> d sel
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI          4          WO--1999000450/PN.D
E2      DPCI          3          EP-----1038912/PN.D
E3      DPCI          2          JP-----11080569/PN.D
E4      DPCI          2          US-----5844026/PN.D
E5      DPCI          1          JP-----4158559/PN.G
E6      DPCI          1          JP----08245619/PN.D
E7      DPCI          1          JP--2001261899/PN.D
E8      DPCI          1          US-----7109260/PN.G
E9      DPCI          1          US-----7678852/PN.G
E10     DPCI          1          WO--2005049716/PN.G
E11     DPCI          1          WO--2005090307/PN.G
E12     DPCI          1          WO--2009009006/PN.G
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d. Cross back into *DWPI*:

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COST IN EUROS                               SINCE FILE      TOTAL
                                           ENTRY          SESSION
FULL ESTIMATED COST                       20,54           29,97
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FILE 'WPIX' ENTERED AT 14:05:46 ON 11 JAN 2011
COPYRIGHT (C) 2011 THOMSON REUTERS
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FILE LAST UPDATED:           6 JAN 2011   <20110106/UP>
MOST RECENT UPDATE:          201102     <201102/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE
```

>>> Now containing more than 1.6 million chemical structures in DCR <<<

>>> IPC, ECLA, US National Classifications and Japanese F-Terms and FI-Terms have been updated with reclassifications to end of July 2010. No update date (UP) has been created for the reclassified documents, but they can be identified by specific update codes (see HELP CLA for details) <<<

>>> FOR THE LATEST DERWENT WORLD PATENTS INDEX (DWPI) STN USER DOCUMENTATION, PLEASE VISIT:
http://www.stn-international.com/stn_dwpi.html <<<

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> For changes in DWPI see HELP CHANGE - last updated April 6, 2010 <<<

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=> s e1-12/pn
1 WO--1999000450/PN
  (WO9900450/PN)
1 EP-----1038912/PN
  (EP1038912/PN)
1 JP-----11080569/PN
  (JP11080569/PN)
1 US-----5844026/PN
  (US5844026/PN)
1 JP-----4158559/PN
  (JP4158559/PN)
1 JP----08245619/PN
  (JP08245619/PN)
1 JP--2001261899/PN
  (JP2001261899/PN)
1 US-----7109260/PN
  (US7109260/PN)
1 US-----7678852/PN
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(US7678852/PN)
 1 WO--2005049716/PN
 (WO2005049716/PN)
 1 WO--2005090307/PN
 (WO2005090307/PN)
 1 WO--2009009006/PN
 (WO2009009006/PN)
 L3 11 (WO--1999000450/PN OR EP-----1038912/PN OR JP----11080569/PN OR
 US-----5844026/PN OR JP-----4158559/PN OR JP-----08245619/PN OR
 JP--2001261899/PN OR US-----7109260/PN OR US-----7678852/PN OR
 WO--2005049716/PN OR WO--2005090307/PN OR WO--2009009006/PN)

(Transferring OS.D and OS.G to *DWPI* and searching the accession numbers in /AN would achieve the same result.)

e. Evaluate the additionally retrieved documents. At a first glance there seem to be some potentially relevant answers:

=> d 1-11 ti

L3 ANSWER 1 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Fire-resistant polyolefin blends for manufacturing article, e.g. electrical meter housing, comprise polyolefin base polymer, melamine or its derivative, flame retardant, and compatibilizer

L3 ANSWER 2 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Flame retardant composition, useful in flexible polyurethane foam-forming reaction mixture for forming flexible polyurethane foam, comprises flame retardant, lactone stabilizer, phosphite stabilizer and epoxide stabilizer

L3 ANSWER 3 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Flame retardant polymer composition e.g. used as epoxy resins for prepregs, laminates and printed circuit boards comprises polymer substrate, melamine polyphosphate and poly(m-phenylene methylphosphonate)

L3 ANSWER 4 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Preparation of sterically hindered amine ether for stabilizing polymer composition against harmful effects of light, oxygen and/or heat, by reacting sterically hindered aminoxide with alk-1-ene in the presence of organic hydroperoxide

L3 ANSWER 5 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Flame retardant resin composition for sheet used as outdoor signboard, contains preset amount of resorcinol polyphosphate compound, steric hindrance property amine, vinyl polymer and polyisocyanate compound

L3 ANSWER 6 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Flame retardant polymer composition for making model polymer article, e.g. roofing membranes, has synergistic mixture of sterically hindered amine stabilizer(s), conventional flame retardant(s) from e.g. organohalogen, and acid scavenger(s)

L3 ANSWER 7 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Flame retardant polyolefin resin composition useful as molding material, comprising polyolefin resin, specific acidic phosphoric acid ester amine salt(s), and melamine and/or ammonium phosphate

L3 ANSWER 8 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Heat, light and oxidation-stabilized organic material, e.g. polyolefin or polyurethane automotive coating, contains a hindered hydrocarbyloxyamine stabilizer

L3 ANSWER 9 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI Use of hindered amine compounds - to impart flame-retardant properties to polymeric substrates

L3 ANSWER 10 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI N,N',N''-tris(2,4--bis[(hydro:carbyl:oxy-2,2,6,6-tetra:methyl:piperidin-4-yl)alkylamino*-s-triazin-6-yl]-3,3'-ethylene:di:imino:di:propylamine(s) and bridged derivatives - for use in stabilising polyolefin compositions in particular

L3 ANSWER 11 OF 11 WPIX COPYRIGHT 2011 THOMSON REUTERS on STN
 TI New piperidine triazine poly:amine(s) for stabilising organic material, especially polypropylene@ fibre, against heat, light and oxidation - are prepared from cyanuric chloride, tetra- or penta:methyl-piperidyl-amine and

alkylene poly:amine

f. Combine the original and the additionally found documents:

```
=> s l1 or l3
L4          12 L1 OR L3
```

g. A test with the family search algorithm shows that there aren't any additional documents found with that algorithm within *DWPI*:

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=> fse l1
*** ITERATION 1 ***

SET SMARTSELECT ON
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF
SET COMMAND COMPLETED

SET AUDIT OFF
SET COMMAND COMPLETED

SEL L1 1- PN,APPS
L5          SEL L1 1- PN APPS :      26 TERMS

SEA L5
L6          1 L5

DEL L6- Y
FSORT L1
L6          1 FSO L1

          0 Multi-record Families
          1 Individual Record      Answer 1
          0 Non-patent Records

SET SMARTSELECT OFF
SET COMMAND COMPLETED

SET HIGHLIGHTING DEF
SET COMMAND COMPLETED

SET AUDIT ON
SET COMMAND COMPLETED
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3. Which inventions are citing WO2003050175?

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=> fil dpci
COST IN EUROS                SINCE FILE      TOTAL
                              ENTRY          SESSION
FULL ESTIMATED COST         20,16         50,13
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FILE 'DPCI' ENTERED AT 14:09:55 ON 11 JAN 2011
COPYRIGHT (C) 2011 THOMSON REUTERS

FILE LAST UPDATED: 09 JAN 2011 <20110109/UP>
DERWENT PATENTS CITATION INDEX, COVERS 1973 TO DATE

>>> File DPCI (Derwent Patents Citation Index) replaces the PCI
(Patent Citation Index) file on January 23, 2011. <<<

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=> s WO2003050175/pn.d
L7          3 WO2003050175/PN.D
            (WO2003050175/PN.D)
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=> d 1-3
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L7  ANSWER 1 OF 3  DPCI COPYRIGHT 2011  THOMSON REUTERS on STN
AN  2009-K40006 [200940]  DPCI
TI  Fire-resistant polyolefin blends for manufacturing article, e.g.
    electrical meter housing, comprise polyolefin base polymer, melamine or
    its derivative, flame retardant, and compatibilizer
IN  BANERJI S; CHOUDHARY M S; KULSHRESHTHA A K; XAVIER S F
PA  (INPE-N) INDIAN PETROCHEMICAL CORP; (RELI-N) RELIANCE IND LTD
CYC 105
PI  WO--2005049716  A1 20050602 (200940)* EN 13[0]
    EP-----1687367  A1 20060809 (200940)  EN
    IN---200600492  P3 20080815 (200940)  EN
ADT WO--2005049716  A1 2003WO-IN0000365 20031121; EP-----1687367  A1
    2003EP-000808345 20031121; EP-----1687367  A1 PCT Application
    2003WO-IN0000365 20031121; IN---200600492  P3 PCT Application
    2003WO-IN0000365 20031121; IN---200600492  P3 2006IN-MUMNP00492 20060426
FDT EP-----1687367  A1 Based on WO--2005049716  A
PRAI 2003WO-IN0000365 20031121
```

CTS CITATION COUNTERS

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-----
PNC.D    3    Cited Patents Count
PNC.G    1    Citing Patents Count
IAC.D    2    Cited Issuing Authority Count
IAC.G    1    Citing Issuing Authority Count
CRC      1    Cited Literature Reference Count
OSC.D    3    Cited Patent WPI Accession Number Count
OSC.G    1    Citing Patent WPI Accession Number Count
```

Citations

```
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Cited Publication    By          Accession Number
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US-----6538054  B1      E          1998-241589
WO--1997041173  A1      E          1997-549699
WO--2003050175  A2      E          2003-598075          <--
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Literature Citations

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By          Literature Reference
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E          See references of WO 2005049716A1
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Citings

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Citing Publication    By          Accession Number
-----
EP-----1991613  A1      E          2007-882570
```

```
L7  ANSWER 2 OF 3  DPCI COPYRIGHT 2011  THOMSON REUTERS on STN
AN  2009-B36615 [200909]  DPCI
TI  Flame retardant composition, useful in flexible polyurethane foam-forming
    reaction mixture for forming flexible polyurethane foam, comprises flame
    retardant, lactone stabilizer, phosphite stabilizer and epoxide stabilizer
```

IN STOWELL J K
PA (SUPR-N) SUPRESTA LLC
CYC 121
PI WO--2009009006 A1 20090115 (200909)* EN 28[0]
ADT WO--2009009006 A1 2008WO-US0008281 20080702
PRAI 2007US-000958494P 20070706

CTS CITATION COUNTERS

PNC.D 8 Cited Patents Count
PNC.G 0 Citing Patents Count
IAC.D 2 Cited Issuing Authority Count
IAC.G 0 Citing Issuing Authority Count
CRC 0 Cited Literature Reference Count
OSC.D 8 Cited Patent WPI Accession Number Count
OSC.G 0 Citing Patent WPI Accession Number Count

Citations

Cited Publication By Accession Number

DE----19837701 A1 E 2000-206981
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WO--2003050175 A2 E 2003-598075 <--
WO--2003054073 A1 E 2003-679214
WO--2003076505 A1 E 2003-853550
WO--2004035671 A1 E 2004-411164
WO--2005014706 A1 E 2005-111313

L7 ANSWER 3 OF 3 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AN 2005-758288 [200577] DPCI
TI Preparation of sterically hindered amine ether for stabilizing polymer
composition against harmful effects of light, oxygen and/or heat, by
reacting sterically hindered aminoxide with alk-1-ene in the presence of
organic hydroperoxide
IN BRAIG A; FREY M; KRAMER A; RAST V
PA (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC; (BRAI-I) BRAIG A; (FREY-I) FREY
M; (KRAM-I) KRAMER A; (RAST-I) RAST V
CYC 107
PI WO--2005090307 A1 20050929 (200577)* EN 71[0]
DE112005000536 T5 20070201 (200712) DE
US-20070191516 A1 20070816 (200755) EN
JP--2007529467 W 20071025 (200780) JA 62
ADT WO--2005090307 A1 2005WO-EP0050995 20050307; DE112005000536 T5 DE
2005-112005000536 20050307; DE112005000536 T5 2005WO-EP0050995 20050307;
US-20070191516 A1 2005WO-EP0050995 20050307; JP--2007529467 W
2005WO-EP0050995 20050307; US-20070191516 A1 2006US-000591778 20060906;
JP--2007529467 W 2007JP-000503327 20050307
FDT DE112005000536 T5 Based on WO--2005090307 A; JP--2007529467 W Based on
WO--2005090307 A
PRAI 2004EP-000101047 20040315

CTS CITATION COUNTERS

PNC.D 7 Cited Patents Count
PNC.G 5 Citing Patents Count
IAC.D 2 Cited Issuing Authority Count
IAC.G 2 Citing Issuing Authority Count
CRC 3 Cited Literature Reference Count
OSC.D 7 Cited Patent WPI Accession Number Count
OSC.G 4 Citing Patent WPI Accession Number Count

Citations

Cited Publication By Accession Number

EP-----389431 A E 1990-292326
EP-----754723 A1 E 1997-089267
WO--2000021933 A1 E 2000-329139
WO--2001092228 A2 E 2002-205797
WO--2003045919 A2 E 2003-586793
WO--2003050175 A2 E 2003-598075 <--
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E ANAND NATRAJAN ET AL.: "Production of 2-octenyl radicals from Fe(III).Bleomycin-mediated fragmentation of 10-hydroperoxy-8,12-octadecadienoic acid" JOURNAL OF ORGANIC CHEMISTRY., vol. 56, no. 18, 1991, pages 5239-5241, XP002295049 USAMERICAN CHEMICAL SOCIETY, WASHINGTON, DC.

E JOSEPH E. BABIARZ ET AL.: JOURNAL OF ORGANIC CHEMISTRY., vol. 67, no. 19, 2002, pages 6831-6834, XP002295051 USAMERICAN CHEMICAL SOCIETY. EASTON.

E VINOD F. PATEL ET AL.: "Cobalt-mediated reactions in synthesis." JOURNAL OF THE CHEMICAL SOCIETY, PERKIN TRANSACTIONS 1., vol. 10, 1990, pages 2729-2734, XP002295050 GBCHEMICAL SOCIETY. LETCHWORTH.

Citings

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WO--2008003602 A1	E	2008-E23785
WO--2008003605 A1	E	2008-K06972
WO--2009107502 A1	E	2009-N22106
WO--2009107504 A1	E	2009-N22104

4. For which inventions the same publications are being cited as for the invention the PCT patent publication WO2003050175 represents?

a. Retrieve the parent document

```
=> s wo2003050175/pn
L8          1 WO2003050175/PN
           (WO2003050175/PN)
```

b. Lift the cited patent publication numbers from the parent and search for other documents having cited these.

```
=> tra pn.d
L9          TRANSFER L8 1- PN.D :      6 TERMS
L10         53 L9
ALL TERMS IN L9 RETRIEVED.
```

```
=> d l10 1-3
```

```
L10 ANSWER 1 OF 53 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AN 2010-K27799 [201055] DPCI
TI Stabilizer composition for natural or synthetic polymer used in
   manufacturing agricultural article comprises four pending
   2,2,6,6-tetramethyl-piperidine heterocyclic groups
IN BASSI A; COCCO G; ROTH M; SALA M; SCHOENING K
PA (BADI-C) BASF SE; (CIBA-C) CIBA SPA
CYC 125
PI WO--2010089230 A1 20100812 (201055)* EN 53[0]
ADT WO--2010089230 A1 2010WO-EP0050875 20100126
PRAI 2009EP-000152043 20090204
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CTS CITATION COUNTERS

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PNC.D      4      Cited Patents Count
PNC.G      0      Citing Patents Count
IAC.D      2      Cited Issuing Authority Count
IAC.G      0      Citing Issuing Authority Count
CRC        1      Cited Literature Reference Count
OSC.D      4      Cited Patent WPI Accession Number Count
OSC.G      0      Citing Patent WPI Accession Number Count
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US-----5844026 A	E	1999-044656	<--
US-----6465645 B1	E	2003-138217	
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E      "Chimassorb(TM) 966 - Sterically Hindered Amine Light Stabilizer"
      INTERNET CITATION, [Online] XP002199387 Retrieved from the Internet:
      URL:http://www.cibasc.com/adservices/doc.asp?t=tds&a=CHIMASSORB+966&b=PA%5FPlastics&c=ZZ&.pdf# [retrieved
      on 2002-05-16]
```

```
L10 ANSWER 2 OF 53 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AN 2008-M29017 [200872] DPCI
TI Novel cationic organosilicon-containing monomer used for monomer mix used
   in manufacture of medical devices, has specific structure
IN AMMON D; KUNZLER J; LINHARDT J G; SALAMONE J; SALAMONE J C; SCHNORZMAN D;
   SCHORZMAN D
PA (BAUL-C) BAUSCH&LOMB INC; (BAUL-C) BAUSCH & LOMB INC; (AMMO-I) AMMON D;
   (KUNZ-I) KUNZLER J; (SALA-I) SALAMONE J C; (SCHO-I) SCHORZMAN D
CYC 117
PI US-20070142583 A1 20070621 (200872)* EN 14[0]
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 A1 2006US-000341208 20060127; US-----7622512 B2 Provisional
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 W PCT Application 2006WO-US0047192 20061211; EP-----1969021 B1 PCT
 Application 2006WO-US0047192 20061211; DE602006010244 E PCT Application
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 FDT DE602006010244 E Based on EP-----1969021 A; EP-----1969021 A2 Based on
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 PRAI 2006US-000341208 20060127
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 OSC.D 84 Cited Patent WPI Accession Number Count
 OSC.G 2 Citing Patent WPI Accession Number Count

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EP-----837104 A2	E	1998-100236
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US-----4185087 A	E	1980-09130C
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US-----4260725 A	E	1981-30728D
US-----4388229 A	E	1983-49524K
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US-----6068929	A	E	1998-570506	
US-----6132705	A	E	1998-064996	
US-----6166236	A	E	1990-336784	
US-----6242554	B1	E	2000-352304	
US-----6248803	B1	E	2000-156710	
US-----6482969	B1	E	2003-352092	
US-----6534184	B2	E	2002-675016	
US-----6607717	B1	E	2003-523010	
US-----6613755	B2	E	2000-602036	
US-----6630132	B2	E	2003-442810	
US-----6649722	B2	E	2001-529526	
US-----6706680	B2	E	2002-540150	
US-----6730767	B2	E	2003-607668	
US-----6787603	B2	E	2004-439992	
US-----6815074	B2	E	2003-148568	
US-----6822016	B2	E	2004-119105	
US-----6849671	B2	E	2004-756850	
US-----6849755	B2	E	2002-592550	
US-----6852793	B2	E	2004-120193	
US-----6893595	B1	E	2000-161108	
US-----6951894	B1	E	1996-497228	
US-20040029981	A1	E	2002-382417	
US-20050008613	A1	E	2005-039539	
WO--2007070653	A2	E	2007-587161	

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E Abstract for the article entitled, "Influence of the Chemical Structure of N-alkyl-N,N-dimethyl-3-(siloxanyl)propylammonium Bromides on the Adsorption at the Mercury/Electrolyte Interface" authored by Retter et al. and published in the Journal of Colloid and Interface Science (1993), 156(1), p. 85-89.

Undef Benjamin, William J., Oxygen Permeability (Dk) of Thirty-Seven Rigid Contact Lens Materials, Optometry and Vision Science, vol. 79, No. 2, Feb. 2002, pp. 103-111.

Undef International Search Report (PCTISA/210) and Written Opinion (PCT/ISA/237) mailed on Jul. 7, 2007.

Undef William J. Benjamin, et al., The Oxygen Permeability of Reference Materials, Optom Vis Sci 7 (12s): 95 (1997).

Citings

Citing Publication	By	Accession Number	
US-----7759408	B2	E	2007-600115
WO--2007082113	A2	E	2007-661455

L10 ANSWER 3 OF 53 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AN 2008-L73169 [200868] DPCI
TI New azo compounds are useful for imparting flame retardancy to polymer substrate and for producing molded or extruded article e.g. roto-molded articles, injection molded articles, preferably fiber, spun melt non-woven, film and foam
IN AUBERT M; PFAENDNER R; ROTH M; WILEN C; WILEN C M
PA (BADI-C) BASF SE; (CIBA-C) CIBA HOLDING INC; (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC
CYC 123
PI WO--2008101845 A1 20080828 (200868)* EN 31[0]
TW---200837056 A 20080916 (200925) ZH
KR--2009113883 A 20091102 (200977) KO
EP-----2125732 A1 20091202 (200979) EN
CN---101631774 A 20100120 (201010) ZH
JP--2010519270 W 20100603 (201036) JA 29
ADT WO--2008101845 A1 2008WO-EP0051712 20080213; CN---101631774 A 2008CN-080005798 20080213; EP-----2125732 A1 2008EP-000708935 20080213; KR--2009113883 A PCT Application 2008WO-EP0051712 20080213; EP-----2125732 A1 PCT Application 2008WO-EP0051712 20080213; CN---101631774 A PCT Application 2008WO-EP0051712 20080213; JP--2010519270 W PCT Application 2008WO-EP0051712 20080213; TW---200837056 A 2008TW-000105849 20080220; JP--2010519270 W 2009JP-000550692 20080213; KR--2009113883 A 2009KR-000719170 20080213
FDT KR--2009113883 A Based on WO--2008101845 A; EP-----2125732 A1 Based on WO--2008101845 A; CN---101631774 A Based on WO--2008101845 A; JP--2010519270 W Based on WO--2008101845 A
PRAI 2007EP-000102770 20070221

CTS CITATION COUNTERS

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-----
PNC.D      3      Cited Patents Count
PNC.G      0      Citing Patents Count
IAC.D      1      Cited Issuing Authority Count
IAC.G      0      Citing Issuing Authority Count
CRC        1      Cited Literature Reference Count
OSC.D      3      Cited Patent WPI Accession Number Count
OSC.G      0      Citing Patent WPI Accession Number Count

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Citations

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Cited Publication      By      Accession Number
-----
WO--1999000450 A1     E      1999-095705      <--
WO--2003054073 A1     E      2003-679214
WO--2005030852 A2     E      2005-332790

```

Literature Citations

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By      Literature Reference
-----
E      DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US;
      LEE, KYU WAN ET AL: "Syntheses of some New compounds containing a
      stable free radical. I. Plastic additives" XP002440689 retrieved from
      STN Database accession no. 1973:505051 & HWAHAK KONGHAK , 11(1), 15-22
      CODEN: HHKHAT; ISSN: 0304-128X, 1973,

```

c. Analyze the publication numbers from the citing inventions:

=> ana l10 pn.f
L11 ANALYZE L10 1- PN.F : 202 TERMS

=> d
L11 ANALYZE L10 1- PN.F : 202 TERMS

```

TERM #      # OCC      # DOC      % DOC      PN.F
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1           99         1      1.89      US-----7759408/PN.F
2           95         1      1.89      US-----7622512/PN.F
3           67         1      1.89      US-----7084196/PN.F
4           63         1      1.89      US-----7470734/PN.F
5           59         1      1.89      WO--1999000450/PN.F
6           54         1      1.89      US-----6225384/PN.F
7           52         1      1.89      US-----6797751/PN.F
8           52         1      1.89      US-----7288583/PN.F
9           50         1      1.89      US-----5844026/PN.F
10          47         1      1.89      US-----6309987/PN.F

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d. Evaluate two answers:

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=> s 114/pn
L15          52 L14/PN
ALL TERMS IN L14/PN RETRIEVED.
```

```
=> d 14,15,3
```

```
L15 ANSWER 14 OF 52 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AN 2004-579309 [200456] DPCI
TI Hindered amine piperidine compound, e.g.
   2,4-bis(N-n-butyl-N-(1-cyclohexyloxy-2,2,6,6-tetramethylpiperidin-4-
   yl)amino)-6-(2-(20-40 carbon alkanoyloxy)ethyl)amino-s-triazine, for
   candle wax, substituted by long chain hydrocarbon moiety
IN GALBO J P; SMITH A R; WOOD M G
PA (CIBA-C) CIBA SPECIALTY CHEM CORP; (GALB-I) GALBO J P; (SMIT-I) SMITH A R;
   (WOOD-I) WOOD M G
CYC 1
PI US 20040138452 A1 20040715 (200456)* EN 36[0] <--
   US 6875870 B2 20050405 (200523) EN <--
ADT US 20040138452 A1 Div Ex US 2001-836100 20010417; US 20040138452 A1
   Div Ex US 2002-236503 20020906; US 20040138452 A1 US 2003-740196
   20031218; US 6875870 B2 Div Ex US 2001-836100 20010417; US 6875870 B2
   Div Ex US 2002-236503 20020906; US 6875870 B2 US 2003-740196 20031218
FDT US 20040138452 A1 Div ex US 6465645 B; US 6875870 B2 Div ex US 6465645 B;
   US 6875870 B2 Div ex US 6755875 B
PRAI US 2003-740196 20031218
   US 2002-236503 20020906
   US 2001-836100 20010417
```

CTS CITATION COUNTERS

```
-----
PNC.D 43 Cited Patents Count
PNC.G 2 Citing Patents Count
IAC.D 6 Cited Issuing Authority Count
IAC.G 2 Citing Issuing Authority Count
CRC 5 Cited Literature Reference Count
OSC.D 40 Cited Patent WPI Accession Number Count
OSC.G 2 Citing Patent WPI Accession Number Count
```

Citations

```
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Cited Publication      By      Accession Number
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US 5844026 A          E      1999-044656
DE 4003129 A          I      1990-247813
EP 5922 A             I      1979-89788B
EP 133964 A          I      1985-063491
EP 172691 A          I      1986-056945
EP 226453 A          I      1987-171727
EP 300160 A          I      1989-025378
EP 359488 A          I      1990-085257
GB 1582280 A          I      1978-23672A
JP 03278554 A        I      1992-030189
JP 11263884 A        I      1999-604976
JP 57137358 A        I      1982-82892E
US 33489 E           I      1987-073709
US 3530084 A          I      1970-50222R
US 3909333 A          I      1975-06023W
US 4021432 A          I
US 4046737 A          I
US 4086204 A          I      1977-12827Y
US 4141883 A          I      1976-92414X
US 4198334 A          I      1977-32776Y
US 4308362 A          I      1980-86532C
US 4319030 A          I      1981-23556D
US 4376836 A          I      1982-08278E
US 4379721 A          I      1981-72069D
US 4471417 A          I      1982-90561E
US 4472564 A          I      1984-249977
US 4496649 A          I      1984-166457
US 4504661 A          I      1982-00165E
US 4524165 A          I      1985-164869
US 4533688 A          I      1984-166373
US 4616051 A          I      1986-284774
US 4921962 A          I      1990-171338
US 4986932 A          I      1989-025379
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US 5204473 A I 1993-144010
 US 5679794 A I 1991-142153
 US 5859098 A I 1986-056945
 US 5879694 A I 1997-179242
 US 5964905 A I 1999-600500
 US 6166212 A I 2000-602859
 US 6296674 B1 I 2001-557565
 WO 9413736 A1 I 1994-217833
 WO 9900450 A1 I 1999-095705
 WO 2000022037 A1 I 2000-339310

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 Undef Abstract for EP 0300160 (1989).
 Undef Abstract for JP 11263884 (1999).
 Undef Abstract for JP 3278554 (1991).
 Undef Abstract for JP 57137358 (1982).
 Undef F. A. Ballentine et al., Inhibiting Color Fading of Dyed Candles with
 Cyasorb[®] Light Absorbers, NCA Technical Meeting, (1998).

Citings

Citing Publication By Accession Number

 US 7018454 B2 E 2004-532926
 WO 2007075537 A2 E 2007-054343

L15 ANSWER 15 OF 52 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
 AN 2004-431532 [200440] DPCI
 TI Flame retardant polymer composition, e.g. thermoplastic polyolefin,
 comprises organic polymer substrate and mixture of melamine-based flame
 retardant and organo halogen and/or phosphorus-containing flame retardant
 IN KAPRINIDIS N; KIERKELS R; KIERKELS R H M; LELLI N; MARIA K R H; NICOLA L;
 NIKOLAS K
 PA (BADI-C) BASF SE; (CIBA-C) CIBA SC HOLDING AG; (CIBA-C) CIBA SPECIALTY
 CHEM CORP; (CIBA-C) CIBA SPECIALTY CHEM HOLDING INC; (KAPR-I) KAPRINIDIS
 N; (KIER-I) KIERKELS R; (LELL-I) LELLI N
 CYC 106
 PI WO 2004041919 A2 20040521 (200440)* EN 45[0] <--
 US 20040138351 A1 20040715 (200447) EN <--
 AU 2003283310 A1 20040607 (200469) EN <--
 EP 1558674 A2 20050803 (200551) EN
 BR 2003015913 A 20050913 (200561) PT
 TW 2004018914 A 20041001 (200608) ZH
 JP 2006504831 T 20060209 (200612) JA 45
 CN 1711313 A 20051221 (200636) ZH
 KR 2005084922 A 20050829 (200644) KO <--
 ZA 2005002819 A 20060726 (200654) EN 53
 US 7138448 B2 20061121 (200677) EN <--
 CN 100387645 C 20080514 (200857) ZH
 RU 2344158 C2 20090120 (200907) RU
 AU 2003283310 B2 20091112 (200979) EN <--
 ADT WO 2004041919 A2 WO 2003-EP11940 20031028; US 20040138351 A1
 Provisional US 2002-423678P 20021104; US 7138448 B2 Provisional US
 2002-423678P 20021104; US 20040138351 A1 US 2003-690097 20031021; US
 7138448 B2 US 2003-690097 20031021; AU 2003283310 A1 AU 2003-283310
 20031028; AU 2003283310 B2 AU 2003-283310 20031028; BR 2003015913 A BR
 2003-15913 20031028; CN 1711313 A CN 2003-80102780 20031028; CN 100387645
 C CN 2003-80102780 20031028; EP 1558674 A2 EP 2003-775242 20031028; EP
 1558674 A2 WO 2003-EP11940 20031028; BR 2003015913 A WO 2003-EP11940
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 20031028; TW 2004018914 A TW 2003-130650 20031103; JP 2006504831 T JP
 2004-548798 20031028; RU 2344158 C2 RU 2005-117339 20031028; ZA 2005002819
 A ZA 2005-2819 20050407; KR 2005084922 A KR 2005-707792 20050502
 FDT AU 2003283310 A1 Based on WO 2004041919 A; EP 1558674 A2 Based on WO
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 Based on WO 2004041919 A; KR 2005084922 A Based on WO 2004041919 A; RU
 2344158 C2 Based on WO 2004041919 A; AU 2003283310 B2 Based on WO
 2004041919 A
 PRAI US 2002-423678P 20021104
 US 2003-690097 20031021

CTS CITATION COUNTERS

 PNC.D 31 Cited Patents Count

PNC.G 10 Citing Patents Count
 IAC.D 5 Cited Issuing Authority Count
 IAC.G 3 Citing Issuing Authority Count
 CRC 5 Cited Literature Reference Count
 OSC.D 23 Cited Patent WPI Accession Number Count
 OSC.G 9 Citing Patent WPI Accession Number Count

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Cited Publication	By	Accession Number
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EP 531110 A3	E	1993-078608
EP 894820 A1	E	1999-108319
GB 2085898 A	E	1982-35747E
GB 2085898 B	E	1982-35747E
JP 10176095 A	E	1998-422469
JP 54113647 A	E	1979-75950B
JP 57070152 A	E	1982-46877E
JP 58101128 A	E	1983-719423
US 3819575 A	E	1974-50088V
US 3959219 A	E	1976-06259X
US 4504611 A	E	1985-074683
US 5204393 A	E	1993-078608
US 5356568 A	E	1994-332271
US 5393812 A	E	1995-106208
US 5475041 A	E	1995-161761
US 5578666 A	E	1997-020453
US 5643980 A	E	1995-068431
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US 20020096669 A1	E	2001-168257
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WO 9510565 A2	E	1995-161761
WO 9900450 A1	E	1999-095705
WO 2000073375 A2	E	2001-168257
WO 2004031286 A1	E	2004-399828

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By	Literature Reference
E	Derwent Abstr. 1979-75950B [42] for JP 54113647 (1979).
E	Derwent Abstr. 1982-46877E [23] for JP 57070152 (1982).
E	Derwent Abstr. 1983-719423 [30] for JP 58101128 (1983).
E	Derwent Abstr. 1998-422469 [36] for JP 10176095 (1998).
E	See references of WO 2004041919A2

Citings

Citing Publication	By	Accession Number
US 7317044 B2	E	2005-151289
US 7482398 B2	E	2005-114144
US 7531664 B2	E	2003-679214
US 7678852 B2	E	2009-A43390
WO 2007031450 A1	E	2007-361533
WO 2007062344 A2	E	2007-623751
WO 2008151986 A1	E	2009-A43390
WO 2010023236 A1	E	2010-C34775
KR 840150 B1	Undef	2009-A65207
KR 875958 B1	Undef	2009-F05694

L15 ANSWER 3 OF 52 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
 AN 2008-L73169 [200868] DPCI
 TI New azo compounds are useful for imparting flame retardancy to polymer substrate and for producing molded or extruded article e.g. roto-molded articles, injection molded articles, preferably fiber, spun melt non-woven, film and foam
 IN AUBERT M; PFAENDNER R; ROTH M; WILEN C; WILEN C M
 PA (BADI-C) BASF SE; (CIBA-C) CIBA HOLDING INC; (CIBA-C) CIBA SPECIALTY CHEM

HOLDING INC
CYC 123
PI WO 2008101845 A1 20080828 (200868)* EN 31[0] <--
TW 2008037056 A 20080916 (200925) ZH
KR 2009113883 A 20091102 (200977) KO
EP 2125732 A1 20091202 (200979) EN
CN 101631774 A 20100120 (201010) ZH
JP 2010519270 T 20100603 (201036) JA 29
ADT WO 2008101845 A1 WO 2008-EP51712 20080213; CN 101631774 A CN
2008-80005798 20080213; EP 2125732 A1 EP 2008-708935 20080213; KR
2009113883 A PCT Application WO 2008-EP51712 20080213; EP 2125732 A1 PCT
Application WO 2008-EP51712 20080213; CN 101631774 A PCT Application WO
2008-EP51712 20080213; JP 2010519270 T PCT Application WO 2008-EP51712
20080213; TW 2008037056 A TW 2008-105849 20080220; JP 2010519270 T JP
2009-550692 20080213; KR 2009113883 A KR 2009-719170 20080213
FDT KR 2009113883 A Based on WO 2008101845 A; EP 2125732 A1 Based on WO
2008101845 A; CN 101631774 A Based on WO 2008101845 A; JP 2010519270 T
Based on WO 2008101845 A
PRAI EP 2007-102770 20070221

CTS CITATION COUNTERS

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PNC.D      3      Cited Patents Count
PNC.G      0      Citing Patents Count
IAC.D      1      Cited Issuing Authority Count
IAC.G      0      Citing Issuing Authority Count
CRC         1      Cited Literature Reference Count
OSC.D      3      Cited Patent WPI Accession Number Count
OSC.G      0      Citing Patent WPI Accession Number Count

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Citations

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-----
Cited Publication      By      Accession Number
-----
WO 9900450 A1         E         1999-095705
WO 2003054073 A1     E         2003-679214
WO 2005030852 A2     E         2005-332790

```

RENB Literature Citations

By Literature Reference

```

-----
E      DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US;
      LEE, KYU WAN ET AL: "Syntheses of some New compounds containing a
      stable free radical. I. Plastic additives" XP002440689 retrieved from
      STN Database accession no. 1973:505051 & HWAHAK KONGHAK , 11(1), 15-22
      CODEN: HHKHAT; ISSN: 0304-128X, 1973,

```

5. Who is citing Sumitomo?

```
=> e sumo-c/paco.d
E#      FILE          FREQUENCY    AT      TERM
---      ---          -
E1      DPCI              0        1      SUMO TECHNOLOGIES LLC/PACO.D
E2      DPCI              0        1      SUMO TECHNOLOGY CORP/PACO.D
E3      DPCI          48038    30 --> SUMO-C/PACO.D
E4      DPCI              19        1      SUMO-I/PACO.D
E5      DPCI          105      12      SUMO-N/PACO.D
E6      DPCI              0        1      SUMOK/PACO.D
E7      DPCI              0        1      SUMOK AD CO LTD/PACO.D
E8      DPCI              0        1      SUMOK PLANNING JH/PACO.D
E9      DPCI              0        1      SUMON/PACO.D
E10     DPCI              0        1      SUMON IND JIA SHAN CO LTD/PACO.D
E11     DPCI              0        1      SUMON IND JIASHAN CO LTD/PACO.D
E12     DPCI              0        1      SUMOON/PACO.D
```

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=> s e3
L12      48038 SUMO-C/PACO.D
```

=> d hit

L12 ANSWER 1 OF 48038 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

CDP Cited Patents

```
-----
Citing Publication  By  Cat  Cited Patent      Date      Accession Number
-----
US 7781351 B1      E      US 20050025892 A1  20050203  2005-179460
                   PA: (SUMO-C) SUMITOMO CHEM CO LTD
                   IN: SATOH N; YOKOTA A; YOSHIDA Y
```

Who has been citing Sumitomo after DPCI week 201001?

```
=> s sumo-c/paco.g (p) pciw.g >= 201001
      38838 SUMO-C/PACO.G
      2597307 PCIW.G >= 201001
          (PCIW.G>=201001)
L14      4078 SUMO-C/PACO.G (P) PCIW.G >= 201001
```

=> d hit

L14 ANSWER 1 OF 4078 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

CGP Citing Patents

```
-----
Cited Publication  By  Cat  Citing Patent      Date      Accession Number
-----
WO 2010024238 A1  E      WO 2010082525 A1  2010-J41375
                   PA: (SUMO-C) SUMITOMO CHEM CO LTD
                   IN: YAHAGI I
```

6. Which are the most heavily cited documents covering chewing gum technology and which are the most frequently cited patent assignees?

a. Search the topic in *WPI*:

```
=> s d03-e09/mc
D03-E09 CHEWING GUM
L15          2480 D03-E09/MC
```

b. Cross-over into *DPCI*:

```
=> fil dpci
COST IN EUROS                SINCE FILE          TOTAL
                              ENTRY          SESSION
FULL ESTIMATED COST          2,88          273,10
```

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FILE 'DPCI' ENTERED AT 14:44:13 ON 11 JAN 2011
COPYRIGHT (C) 2011 THOMSON REUTERS
```

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FILE LAST UPDATED:          09 JAN 2011  <20110109/UP>
DERWENT PATENTS CITATION INDEX, COVERS 1973 TO DATE
```

c. Transfer the accession numbers of the invention:

```
=> tra l15 an
SELECT IS APPROXIMATELY 23% COMPLETE
SELECT IS APPROXIMATELY 44% COMPLETE
SELECT IS APPROXIMATELY 67% COMPLETE
SELECT IS APPROXIMATELY 94% COMPLETE
L16          TRANSFER L15 1- AN :    2480 TERMS
L17          1556 L16
L18          QUE  TERMS FROM L16 WITH NO HITS:   924 TERMS
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d. Analyze the answer set for the most heavily cited inventions:

```
=> ana l17 os.d
ANALYZE IS APPROXIMATELY 18% COMPLETE
ANALYZE IS APPROXIMATELY 35% COMPLETE
ANALYZE IS APPROXIMATELY 45% COMPLETE
ANALYZE IS APPROXIMATELY 56% COMPLETE
ANALYZE IS APPROXIMATELY 62% COMPLETE
ANALYZE IS APPROXIMATELY 68% COMPLETE
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ANALYZE IS APPROXIMATELY 75% COMPLETE
ANALYZE IS APPROXIMATELY 83% COMPLETE
ANALYZE IS APPROXIMATELY 90% COMPLETE
ANALYZE IS APPROXIMATELY 91% COMPLETE
ANALYZE IS APPROXIMATELY 96% COMPLETE
L20          ANALYZE L17 1- OS.D :    7136 TERMS
```

```
=> d doc
L20          ANALYZE L17 1- OS.D :    7136 TERMS
```

TERM #	# OCC	# DOC	% DOC	OS.D
1	91	55	3.53	1991-280760/OS.D
2	93	53	3.41	1990-109737/OS.D
3	84	52	3.34	1985-316554/OS.D
4	85	50	3.21	1984-188503/OS.D
5	84	48	3.08	1995-122803/OS.D
6	122	47	3.02	1990-348202/OS.D
7	83	47	3.02	1988-184727/OS.D
8	80	45	2.89	1987-193302/OS.D
9	66	45	2.89	1990-354592/OS.D
10	98	43	2.76	1995-169978/OS.D

e. Evaluate the top ranking candidate:

```
L17 ANSWER 1 OF 1 DPCI COPYRIGHT 2008          THE THOMSON CORP on STN
AN 1991-280760 [199138] DPCI
TI Continuous chewing gum slab preparation - by extrusion mixing of ingredients
and liquid gum base without separate slab cooling
IN DEGADY M; LESKO A J
```

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PA (WARN-C) WARNER LAMBERT CO; (WARN-C) WARNER-LAMBERT CO
CYC 16
PI US 5045325 A 19910903 (199138)* EN
EP 483054 A 19920429 (199218) EN 11
CA 2052266 A 19920327 (199223) EN
ZA 9107668 A 19920624 (199232) EN 24
JP 04248956 A 19920904 (199243) JA 8
EP 483054 B1 19950118 (199507) EN 11[1]
DE 69106838 E 19950302 (199514) DE
ES 2067200 T3 19950316 (199517) ES
CA 2052266 C 19970527 (199733) EN
JP 3163583 B2 20010508 (200128) JA 8

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f. Identify the top ranking patent assignees:

```

=> ana l17 paco.d
ANALYZE IS APPROXIMATELY 21% COMPLETE
ANALYZE IS APPROXIMATELY 36% COMPLETE
ANALYZE IS APPROXIMATELY 47% COMPLETE
ANALYZE IS APPROXIMATELY 59% COMPLETE
ANALYZE IS APPROXIMATELY 64% COMPLETE
ANALYZE IS APPROXIMATELY 70% COMPLETE
ANALYZE IS APPROXIMATELY 75% COMPLETE
ANALYZE IS APPROXIMATELY 86% COMPLETE
ANALYZE IS APPROXIMATELY 92% COMPLETE
ANALYZE IS APPROXIMATELY 98% COMPLETE
L21 ANALYZE L17 1- PACO.D : 2929 TERMS

```

```

=> d
L21 ANALYZE L17 1- PACO.D : 2929 TERMS

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TERM #	# OCC	# DOC	% DOC	PACO.D
1	7602	535	34.38	WRIL-C/PACO.D
2	6354	510	32.78	WARN-C/PACO.D
3	1786	186	11.95	PROC-C/PACO.D
4	1720	251	16.13	NATY-C/PACO.D
5	1356	194	12.47	LIFS-C/PACO.D
6	898	149	9.58	GENO-C/PACO.D
7	690	160	10.28	LOTT-C/PACO.D
8	626	112	7.20	UNIL-C/PACO.D
9	620	99	6.36	COLG-C/PACO.D
10	606	47	3.02	FUIS-N/PACO.D

```

PA (WRIL-C) WRIGLEY JR CO WM

```

7. Which are the most heavily citing documents and companies for Pfizer's more recent inventions?

a. Retrieve the Pfizer inventions

```
=> s pfiz/paco ran=(1990,)
L25          4250 PFIZ/PACO
              (PFIZ-C/PACO)
```

b. Analyse the citing patent publications and patent assignee codes

```
=> ana l25 1-4250 pn.g
ANALYZE IS APPROXIMATELY 13% COMPLETE
ANALYZE IS APPROXIMATELY 22% COMPLETE
...
ANALYZE IS APPROXIMATELY 98% COMPLETE
L26          ANALYZE L25 1-4250 PN.G :   38818 TERMS
```

```
=> d
L26          ANALYZE L25 1-4250 PN.G :   38818 TERMS
```

TERM #	# OCC	# DOC	% DOC	PN.G
1	63	30	0.71	US7737126/PN.G
2	52	46	1.08	US7053107/PN.G
3	49	38	0.89	US7671072/PN.G
4	42	26	0.61	US6777543/PN.G
5	42	20	0.47	US7468428/PN.G
6	40	33	0.78	US7572924/PN.G
7	39	37	0.87	US6995171/PN.G
8	39	33	0.78	US7125905/PN.G
9	39	28	0.66	US7705016/PN.G
10	38	32	0.75	US6642232/PN.G
11	38	30	0.71	US7678808/PN.G

```
=> ana l25 1-4250 paco.g
ANALYZE IS APPROXIMATELY 18% COMPLETE
ANALYZE IS APPROXIMATELY 28% COMPLETE
...
ANALYZE IS APPROXIMATELY 98% COMPLETE
L27          ANALYZE L25 1-4250 PACO.G :   7280 TERMS
```

```
=> d doc
L27          ANALYZE L25 1-4250 PACO.G :   7280 TERMS
```

TERM #	# OCC	# DOC	% DOC	PACO.G
1	34194	1884	44.33	PFIZ-C/PACO.G
2	2440	313	7.36	MERI-C/PACO.G
3	3656	296	6.96	ASTR-C/PACO.G
4	1710	288	6.78	BRIM-C/PACO.G
5	1910	263	6.19	FARB-C/PACO.G
6	2180	257	6.05	PHAA-C/PACO.G
7	1798	240	5.65	NOVS-C/PACO.G
8	1924	239	5.62	WARN-C/PACO.G
9	1580	225	5.29	HOFF-C/PACO.G
10	1544	220	5.18	GLAX-C/PACO.G

Display and Select

Display and Print Formats

In *DPCI* predefined formats including STD, BIB and ALL can be used to display search results online or print search results offline (for a complete list see below). Some formats (e.g. ALL) are also available as so-called indented version (e.g. IALL). The indented format includes the same information as the corresponding 'standard' format, but the display field codes preceding the information are replaced by the complete field names.

In addition to the predefined formats, any combination of display fields and formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g. => D L4 1-5 IN TI. The order of the terms in the formats is not important, but information will be displayed in the same order as input. Hit terms will be highlighted in all fields.

Users can create their own predefined formats with the SET FORMAT command. System predefined and/or any of the display fields can be part of such a user predefined format.

The XML distribution format has additionally been provided for users wanting to perform extensive post-processing on the result sets. A => D XMLDOC will result in a hypertext link to a compressed XML file.

```
=> d xmldoc
```

```
L2 ANSWER 1 OF 13643 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN  
XMLDOC
```

```
http://www.stn-international.org/xd/921874284347/PCI2006-815394.xml.zip
```

```
Links will expire 90 days from the date this display was created. Be sure to save your  
results.
```

Select and Sort

TI is the default field code for SELECT. If no other field is specified single words from the title are selected automatically. For a complete list of select and sort codes see below.

CURRENT AWARENESS SEARCHING

Current awareness searching can be conducted in *DPCI* either by setting up an SDI or running your own scripts. SDIs can be set up to deliver the results in hardcopy or softcopy form or as an online answer set delivered to your online account. The latter is recommended if subsequent crossover into *DWPI* or elsewhere is required. Below the procedure to accomplish this is illustrated. Let us assume that one wants to be alerted if there are documents updated with citations and containing citations of Sumitomo.

Create an answer set:

```
=> e sumo-c/paco.d
E#   FILE           FREQUENCY   AT      TERM
--   ----           -
E1   DPCI           0           1       SUMO TECHNOLOGIES LLC/PACO.D
E2   DPCI           0           1       SUMO TECHNOLOGY CORP/PACO.D
E3   DPCI           48087       30 -->  SUMO-C/PACO.D
E4   DPCI           19          1       SUMO-I/PACO.D
E5   DPCI           105         12      SUMO-N/PACO.D
E6   DPCI           0           1       SUMOK/PACO.D
E7   DPCI           0           1       SUMOK AD CO LTD/PACO.D
E8   DPCI           0           1       SUMOK PLANNING JH/PACO.D
E9   DPCI           0           1       SUMON/PACO.D
E10  DPCI           0           1       SUMON IND JIA SHAN CO LTD/PACO.D
E11  DPCI           0           1       SUMON IND JIASHAN CO LTD/PACO.D
E12  DPCI           0           1       SUMOON/PACO.D

=> s e3
L1   48087 SUMO-C/PACO.D
```

Evaluate the results:

```
=> d hit
L1   ANSWER 1 OF 48087 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

CDP Cited Patents
-----

Citing Publication   By   Cat   Cited Patent           Date           Accession Number
-----
US 7781351 B1       E           US 20050025892 A1    20050203      2005-179460
                    PA:  (SUMO-C) SUMITOMO CHEM CO LTD
                    IN:  SATOH N; YOKOTA A; YOSHIDA Y
```

Set up an SDI based on the query L1:

```
=> sdi
ENTER QUERY L# FOR SDI REQUEST OR (END):l1
ENTER UPDATE FIELD CODE (UP) OR ?:UPD
ENTER SDI REQUEST NAME, (AA001/S), OR END:sumotest/s
ENTER COST CENTER (NONE) OR NONE:.
ENTER TITLE (NONE):Sumo
ENTER METHOD OF DELIVERY (OFFLINE), ONLINE, OR EMAIL:email
REENTER EMAIL ID FOR 'TEST' OR (END):test@fiz-karlsruhe.de
TEST@FIZ-KARLSRUHE.DE
RECEIVE DELIVERY NOTIFICATION? (Y)/N:n
ELIMINATE PREVIOUSLY SEEN ANSWERS WITH EACH SDI RUN? Y/(N):n
ENTER PRINT FORMAT (STD) OR ?:.
HIGHLIGHT HIT TERMS? (Y)/N:.
ARCHIVE ANSWERS? Y/(N):n
REDISTRIBUTE ANSWERS? Y/(N):n
ENTER MAXIMUM NUMBER OF HITS TO BE PRINTED PER RUN (100):.
SORT SDI ANSWER SET (N)/Y?:n
SEND SDI WITH NO ANSWERS? (Y)/N:n
ENTER SDI RUN FREQUENCY - (WEEKLY), MONTHLY, OR ?:.
ENTER SDI EXPIRATION DATE 'YYYYMMDD' OR (NONE):.
```

QUERY L1 HAS BEEN SAVED AS SDI REQUEST 'SUMOTEST/S'

The Patent Citation Production Weeks can also be employed for current awareness searches. Here all documents containing citations of Sumitomo after DPCI week 201001 are retrieved.

```
=> s sumo/paco.d (1) pciw>201001
    48087 SUMO/PACO.D
        (SUMO-C/PACO.D)
    976907 PCIW>201001
        (PCIW>201001)
L1      3270 SUMO/PACO.D (L) PCIW>201001
```

=> d hit

L1 ANSWER 1 OF 3270 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

CDP Cited Patents

Citing Publication	By	Cat	Cited Patent	Date	Accession Number
US 7781351 B1	E		US 20050025892 A1	20050203	2005-179460
			PA: (SUMO-C) SUMITOMO CHEM CO LTD		
			IN: SATOH N; YOKOTA A; YOSHIDA Y		

REFERENCE PART

The Individual Fields

The set of fields for search, select, sort and display available for *DPCI* is listed below.

<u>Field Code</u>	<u>Synonym</u>	<u>SEA/DIS</u>	<u>Name</u>
AC		SEA	Application Country
AD		SEA	Application Date
ADT		DIS	Application Details
AI		DIS	Application Information
AN		SEA/DIS	Accession Number
AP		SEA/DIS	Application Number
APPS		SEA/DIS	Application Number Group
APT		SEA	Application Type
AY		SEA	Application Year
BI		SEA	Basic Index
CYC		SEA/DIS	Country Count
DRWN		SEA	Number of Drawings
DS		SEA/DIS	Designated State
DT		SEA	Document Type
DUPD		SEA	DERWENT Update
DW		SEA	DERWENT Week
DW.B		SEA	DERWENT Week Basic
ED		SEA/DIS	Entry Date
FA		SEA/DIS	Field Availability
FAM		DIS	Family
FDT		SEA/DIS	Filing Details
FDT.PC RLPC		SEA	Filing Details, Patent Country
FDT.PN RLPN		SEA	Filing Details, Patent Number
FDT.PK RLPK		SEA	Filing Details, Patent Kind
IN	AU	SEA/DIS	Inventor
LA		SEA	Language
PA	CS	SEA/DIS	Patent Assignee
PACO		SEA	Patent Assignee Code
PATS		SEA/DIS	Patent Number Group
PAX		SEL	Patent Assignee Name and Code
PC		SEA	Patent Country
PC.B		SEA	Patent Country Basic
PCIW		SEA	Patent Citation Index Week
PCS		SEA	Patent Countries
PD		SEA	Publication Date
PD.B		SEA	Publication Date Basic
PD.F		SEA	Publication Date First
PGN		SEA	Number of Pages
PI		DIS	Patent Information
PI.B		DIS	Patent Information Basic
PK		SEA	Patent Kind Code
PK.B		SEA	Patent Kind Code Basic
PN		SEA/DIS	Patent Number
PN.B		SEA/DIS	Patent Number Basic
PNC		SEA/DIS	Patent Number Count
PNK		SEA/SEL	Patent Number and Kind Code
PRAI		DIS	Priority Application Information
PRC		SEA	Priority Country
PRD		SEA	Priority Date
PRDF		SEA	Priority Date First
PRN		SEA/DIS	Priority Number
PRT		SEA	Priority Type
PRY		SEA	Priority Year
PRYF		SEA	Priority Year First
PT		SEA	Patent Publication Type
PY		SEA	Publication Year
PY.B		SEA	Publication Year Basic
TI		SEA/DIS	Title
UP		SEA/DIS	Update Date
UPP		SEA	Update Date Patent Family
XMLDOC		DIS	Hypertext link to the entire XML document.

Citation Fields :

<u>Field Code</u>	<u>Code Synonym</u>	<u>SEA/DIS</u>	<u>Name</u>
CTCS		DIS	Citation Counters
CTS		DIS	Citation Counters (brief)
PC.F		SEA	Patent Country of Family Member
PK.F		SEA	Patent Kind Code of Family Member
PN.F		SEA	Patent Number of Family Member
IC.F	RPIC	SEA	International Patent Classification of examiner's field of search
NCL.F	RPCL	SEA	National Classification of examiner's field of search
CDP	REP	DIS	Cited Patent(s)
CDP.B		DIS	Cited Patent(s) Basic
CDPB	Citations	DIS	Cited Patent(s) (brief)
IN.D	RIN	SEA	Cited Patent Inventor
IN.DI		SEA	Cited Patent Inventor (by inventor)
IN.DO		SEA	Cited Patent Inventor (in opposition)
IN.DTH		SEA	Cited Patent Inventor (by third party)
IN.DX		SEA	Cited Patent Inventor (by examiner)
PA.D		SEA	Cited Patent Assignee
PA.DI		SEA	Cited Patent Assignee (by inventor)
PA.DO		SEA	Cited Patent Assignee (in opposition)
PA.DTH		SEA	Cited Patent Assignee (by third party)
PA.DX		SEA	Cited Patent Assignee (by examiner)
PACO.D		SEA	Cited Patent Assignee Code
PACO.DI		SEA	Cited Patent Assignee Code (by inventor)
PACO.DO		SEA	Cited Patent Assignee Code (in opposition)
PACO.DTH		SEA	Cited Patent Assignee Code (by third party)
PACO.DX		SEA	Cited Patent Assignee Code (by examiner)
PC.D	RPN	SEA	Cited Patent Country
PC.DI		SEA	Cited Patent Country (by inventor)
PC.DO		SEA	Cited Patent Country (in opposition)
PC.DTH		SEA	Cited Patent Country (by third party)
PC.DX		SEA	Cited Patent Country (by examiner)
PN.D	RPN	SEA	Cited Patent Number
PN.DI		SEA	Cited Patent Number (by inventor)
PN.DO		SEA	Cited Patent Number (in opposition)
PN.DTH		SEA	Cited Patent Number (by third party)
PN.DX		SEA	Cited Patent Number (by examiner)
CAT.D		SEA	Cited Patent Category (by examiner)
OS.D		SEA	Cited Patent WPI Accession Number
OS.DI		SEA	Cited Patent WPI Accession Number (by inventor)
OS.DO		SEA	Cited Patent WPI Accession Number (in opposition)
OS.DTH		SEA	Cited Patent WPI Accession Number (by third party)
OS.DX		SEA	Cited Patent WPI Accession Number (by examiner)
OSC.D		SEA	Cited Patent WPI Accession Number Count
OSC.DI		SEA	Cited Patent WPI Accession Number Count (by inventor)
OSC.DO		SEA	Cited Patent WPI Accession Number Count (in opposition)
OSC.DTH		SEA	Cited Patent WPI Accession Number Count (by third party)
OSC.DX		SEA	Cited Patent WPI Accession Number Count (by examiner)
IAC.D		SEA	Issuing Authority Count Cited Patents
IAC.DI		SEA	Issuing Authority Count Cited Patents (by inventor)
IAC.DO		SEA	Issuing Authority Count Cited Patents (in opposition)
IAC.DTH		SEA	Issuing Authority Count Cited Patents (by third party)
IAC.DX		SEA	Issuing Authority Count Cited Patents (by examiner)
IAC.DUN		SEA	Issuing Authority Count Cited Patents (undefined)
PNC.D		SEA	Cited Patents Count
PNC.DI		SEA	Cited Patents Count (by inventor)
PNC.DO		SEA	Cited Patents Count (in opposition)
PNC.DTH		SEA	Cited Patents Count (by third party)
PNC.DX		SEA	Cited Patents Count (by examiner)
PNC.DUN		SEA	Cited Patents Count (undefined)
UPD		SEA	Update Date Cited Patent or Literature Reference
CGP		DIS	Citing Patent(s)
CGP.B		DIS	Citing Patent Basic
CGPB	Citings	DIS	Citing Patent(s) (brief)
IN.G		SEA	Citing Patent Inventor
IN.GI		SEA	Citing Patent Inventor (by inventor)
IN.GO		SEA	Citing Patent Inventor (in opposition)
IN.GTH		SEA	Citing Patent Inventor (by third party)
IN.GX		SEA	Citing Patent Inventor (by examiner)
PA.G		SEA	Citing Patent Assignee
PA.GI		SEA	Citing Patent Assignee (by inventor)

PA.GO	SEA	Citing Patent Assignee (in opposition)
PA.GTH	SEA	Citing Patent Assignee (by third party)
PA.GX	SEA	Citing Patent Assignee (by examiner)
PACO.G	SEA	Citing Patent Assignee Code
PACO.GI	SEA	Citing Patent Assignee Code (by inventor)
PACO.GO	SEA	Citing Patent Assignee Code (in opposition)
PACO.GTH	SEA	Citing Patent Assignee Code (by third party)
PACO.GX	SEA	Citing Patent Assignee Code (by examiner)
PC.G	RPN SEA	Citing Patent Country
PC.GI	SEA	Citing Patent Country (by inventor)
PC.GO	SEA	Citing Patent Country (in opposition)
PC.GTH	SEA	Citing Patent Country (by third party)
PC.GX	SEA	Citing Patent Country (by examiner)
PN.G	SEA	Citing Patent Number
PN.GI	SEA	Citing Patent Number (by inventor)
PN.GO	SEA	Citing Patent Number (in opposition)
PN.GTH	SEA	Citing Patent Number (by third party)
PN.GX	SEA	Citing Patent Number (by examiner)
PK.G	SEA	Citing Patent Kind Code
PK.GI	SEA	Citing Patent Kind Code (by inventor)
PK.GO	SEA	Citing Patent Kind Code (in opposition)
PK.GTH	SEA	Citing Patent Kind Code (by third party)
PK.GX	SEA	Citing Patent Kind Code (by examiner)
CAT.G	SEA	Citing Patent Category (cited by examiner)
OS.G	SEA	Citing Patent WPI Accession Number
OS.GI	SEA	Citing Patent WPI Accession Number (by inventor)
OS.GO	SEA	Citing Patent WPI Accession Number (in opposition)
OS.GTH	SEA	Citing Patent WPI Accession Number (by third party)
OS.GX	SEA	Citing Patent WPI Accession Number (by examiner)
OSC.G	SEA	Citing Patent WPI Accession Number Count
OSC.GI	SEA	Citing Patent WPI Accession Number Count (by inventor)
OSC.GO	SEA	Citing Patent WPI Accession Number Count (in opposition)
OSC.GTH	SEA	Citing Patent WPI Accession Number Count (by third party)
OSC.GX	SEA	Citing Patent WPI Accession Number Count (by examiner)
OSC.GUN	SEA	Citing Patent WPI Accession Number Count (undefined)
IAC.G	SEA	Issuing Authority Count Citing Patents
IAC.GI	SEA	Issuing Authority Count Citing Patents (by inventor)
IAC.GO	SEA	Issuing Authority Count Citing Patents (in opposition)
IAC.GTH	SEA	Issuing Authority Count Citing Patents (by third party)
IAC.GX	SEA	Issuing Authority Count Citing Patents (by examiner)
IAC.GUN	SEA	Issuing Authority Count Citing Patents (undefined)
PNC.G	SEA	Citing Patents Number Count
PNC.GI	SEA	Citing Patents Number Count (by inventor)
PNC.GO	SEA	Citing Patents Number Count (in opposition)
PNC.GTH	SEA	Citing Patents Number Count (by third party)
PNC.GX	SEA	Citing Patents Number Count (by examiner)
PNC.GUN	SEA	Citing Patents Number Count (undefined)
UPG	SEA	Update Date Citing Patent
REN	DIS/SEA	Reference(s) (Literature)
REN.I	SEA	Reference(s) (Literature) cited by inventor
REN.O	SEA	Reference(s) (Literature) cited in opposition
REN.TH	SEA	Reference(s) (Literature) cited by third party
REN.X	SEA	Reference(s) (Literature) cited by examiner
REN.B	DIS	Reference(s) (Literature) Basic
RENB literature	DIS	Reference(s) (Literature) (brief)
REPC	SEA	Patent Country of Citing Family Member
REPK	SEA	Patent Kind Code of Citing Family Member
REPN	SEA	Patent Number of Citing Family Member
RENC	SEA	Reference Category
CRC REC	SEA	Cited References Count
CRC.I	SEA	Cited Reference Count (by inventor)
CRC.O	SEA	Cited Reference Count (in opposition)
CRC.TH	SEA	Cited Reference Count (by third party)
CRC.X	SEA	Cited Reference Count (by examiner)
CRC.UN	SEA	Cited Reference Count (undefined)

The Predefined Display Formats

FORMAT

Default format: STD

ALL - all data available
 (MAX) AN, TI, IN, PA, CYC, PI, ADT, FDT, PRAI, CTCS, EXF, CITN
 ALLB (STD) - all data available, but citations briefed up.
 (default) AN, TI, IN, PA, CYC, PI, ADT, FDT, PRAI, CTS, EXFB, CITNB

IALL - as ALL, but indented with text labels
(ISTD)
ANL (DAN) - Accession Number List (no answer numbers)
APPS - Application Number Group (contains ADT and PRAI)
BIB - AN, TI, IN, PA, CYC, PI, ADT, FDT, PRAI
IBIB - as BIB, but indented with text labels
BRIEF.D - AN, TI, PA, CDP
BRIEF.G - AN, TI, PA, CGP
FAM - PI, ADT, FDT, PRAI
PATS - Patent Number Group (contains PI and FDT)
SCAN - AN, TI Abbreviated (random display, no answer numbers)
TRIAL - AN, TI Abbreviated
(SAMPLE)
CITN - All citation data
CITNB - All citation data briefed up
EXF - Examiner Field of Search
EXFB - Examiner Field of Search data briefed up.

Additional formats: HIT, KWIC, OCC.

Primary Key

DPCI Accession Number (AN)

DPCI Accession Numbers, the unique and unambiguous document identifiers are the same as for corresponding documents in WPIDS, WPIX and WPINDEX.

All new basics are assigned unique accession numbers in the order in which they were added to DPWI. Each number comprises a year element, a hyphen, and a six character serial number, but the format has changed slightly over time.

Beginning with update 200801 the DWPI accession numbers have a letter at the beginning of the serial to allow for more address space to potentially accommodate more documents. Hence the first new format accession number is 2008-A00001. Since DPCI and DWPI share the same accession numbers, DPCI is following suit.

From 198327 until 200801 each year numbering began at 000001 with the new year prefix. At update 198327, re-numbering began at 1983-700001.

From update 197001 to 198327 chemical Basics were assigned accession numbers that indicate the year of entry by a letter at the end of the number rather than the two-digit year prefix, e.g. 45982C. In order to standardize the format of these accession numbers online, the year and a hyphen have been inserted before the old format number, e.g. 1975-C7954W.

For non-chemical Basics from update 1970001 to 198327 Basics were assigned accession numbers which also had a letter added at the beginning of each number to distinguish them from chemical records.

The following numbers were used to indicate the year:

R 1970	W 1975	C 1980
S 1971	X 1976	D 1981
T 1972	Y 1977	E 1982 (updates 198201-198246)
U 1973	A 1978	J 1982 (updates 198247-198252)
V 1974	B 1979	K 1983 (updates 198301-198326)

Prior to 1970, accession numbers ended in a letter indicating the printed service where the record appeared. These letters have been assigned artificial year numbers have been added as prefixes to the accession numbers as follows:

F	FARMDOC (DWPI Section B)	1966
G or H	AGDOC (DPWI Section C)	1967
P or Q	PLASDOC (DWPI Section A)	1968
Z	“pre-CPI” Data	1969

The following table shows the format of the accession numbers in existing records, for reference.

Year	Update Range	CPI PANs	Non-CPI – PANs
1970	197001-197051	1970-00001R to 1970-95670R	
1971	197101-197151	1971-00001S to 1971-81761S	
1972	197201-197252	1972-00001T to 1972-82958T	
1973	197301-197352	1973-00001U to 1973-81444U	
1974	197401-197452	1974-00001V to 1974-90143V	1974-A0001V to 1974-M2941V
1975	197501-197552	1975-00001W to 1975-86863W	1975-A0001W to 1975-N8140W
1976	197601-197652	1976-00001X to 1976-98006X	1976-A0001X to 1976-M3809X
1977	197701-197751	1977-00001Y to 1977-91815Y	1977-A0001Y to 1977-L3671Y
1978	197801-197851	1978-00001A to 1978-93189A	1978-A0001A to 1978-L2564A
1979	197901-197951	1979-00001B to 1979-92774B	1979-A0001B to 1979-L9040B
1980	198001-198051	1980-00001C to 1980-92116C	1980-A0001C to 1980-M3105C
1981	198101-198152	1981-00001D to 1981-96934D	1981-A0001D to 1981-N4167D
1982	198201-198246	1982-00001E to 1982-99800E	1982-A0001E to 1982-02171E
1982	198247-198251	1982-00002J to 1982-11618J	1982-A0002J to 1982-B5631J
1983	198301-198326	1983-00001K to 1983-63800K	1983-A0001K to 1983-J8153K
Single Unified Accession Number Range			
1983	198327-198351		1983-700001 to 1983-850679
1984	198401-198451		1984-000001 to 1984-318609
1985	198501-198551		1985-000001 to 1985-323507
1986	198601-198652		1986-000001 to 1986-346722
1987	198701-198751		1987-000001 to 1987-362891
1988	198801-198851		1988-000001 to 1988-368805
1989	198901-198951		1989-000001 to 1989-378093
1990	199001-199051		1990-000001 to 1990-382907
1991	199101-199151		1991-000001 to 1991-376756
1992	199201-199252		1992-000001 to 1992-433973
1993	199301-199351		1993-000001 to 1993-413704
1994	199401-199445		1994-000001 to 1994-366458
1995	199501-199551		1995-000001 to 1995-404371
1996	199601-199651		1996-000001 to 1996-519026
1997	199701-199751		1997-000001 to 1997-559352
1998	199801-199851		1998-000001 to 1998-956457
1999	199901-199954		1999-000001 to 1999-634401
2000	200001-200067		2000-000001 to 2000-687740
2001	200101-200176		2001-000001 to 2001-663531
2002	200201-200282		2002-000001 to 2002-760196
2003	200301-200382		2003-000001 to 2003-904379
2004	200401-200482		2004-000001 to 2004-834439
2005	200501-200582		2005-000001 to 2005-812455
2006	200601-200682		2006-000001 to 2006-815458
2007	200701-200782		2007-000001 to 2007-894521
2008	200801-		2008-A00001 onwards

Accession numbers can be searched with or without the hyphen, both with a two-digit or a four-digit year.

=> e 1999-123456/an

E# FILE FREQUENCY TERM


```

--      ----      -----      ----
E1      DPCI              1      1999-123454/AN
E2      DPCI              1      1999-123455/AN
E3      DPCI              1 --> 1999-123456/AN
E4      DPCI              1      1999-123457/AN
E5      DPCI              1      1999-123458/AN
E6      DPCI              1      1999-123459/AN
E7      DPCI              1      1999-123460/AN
E8      DPCI              1      1999-123461/AN
E9      DPCI              1      1999-123462/AN
E10     DPCI              1      1999-123463/AN
E11     DPCI              1      1999-123464/AN
E12     DPCI              1      1999-123465/AN

```

```

=> s 1999123456/an
L3      1 1999123456/AN
        (1999-123456/AN)

```

```

=> s 99123456/an
L4      1 99123456/AN
        (1999-123456/AN)

```

Display of answer sets is by default in the order of the accession number, but this can be changed by invoking a sort command:

```

=> s rover
L6      42 ROVER

```

```

=> d 1,5,10 an

```

```

L6      ANSWER 1 OF 42  DPCI COPYRIGHT 2008      THE THOMSON CORP on STN
AN      2007-405551 [39]  DPCI

```

```

L6      ANSWER 5 OF 42  DPCI COPYRIGHT 2008      THE THOMSON CORP on STN
AN      2006-708649 [73]  DPCI

```

```

L6      ANSWER 10 OF 42 DPCI COPYRIGHT 2008      THE THOMSON CORP on STN
AN      2005-433355 [44]  DPCI

```

```

=> sort l6 an a
SORT ENTIRE ANSWER SET? (Y)/N:y
PROCESSING COMPLETED FOR L6
L7      42 SORT L6 AN A

```

```

=> d 1,5,10 an

```

```

L7      ANSWER 1 OF 42  DPCI COPYRIGHT 2008      THE THOMSON CORP on STN
AN      1970-19574R [12]  DPCI

```

```

L7      ANSWER 5 OF 42  DPCI COPYRIGHT 2008      THE THOMSON CORP on STN
AN      1992-433509 [52]  DPCI

```

```

L7      ANSWER 10 OF 42 DPCI COPYRIGHT 2008      THE THOMSON CORP on STN
AN      1996-070688 [08]  DPCI

```

Bibliographic Data

Publication Data (PI)

Publication data is available in a condensed tabular format which includes various data elements characterizing a patent publication. The default display used in standard display formats is PN which doesn't comprise designated states for brevity while PI contains them.

Search	/PC,/PC.B,/DS,/PCS,/PN,/PNK,/PNK.B,/PATS,/PK,/PK.B,/PD,/PD.B,/PY, /PY.B,/DW,/DW.B,/LA,/PG,/DRWN
Display	PI,PI.B,PN,PN.B,PNK
Select	PC.B,PN syn PI,PN.B,PNK,PK,PK.B,PD,PD.B,PY,PY.B,DW,DW.B,LA
Sort	PC.B,PN.B,PK.B,PD.B,PY.B,DW.B

All data pertaining to one publication is listed on one line and can be linked by using the paragraph proximity operator (P).

Publication data may comprise the following data elements:

Patent Number

The patent publication number can be displayed in either of two different formats (STN standard display format or Derwent display format) as previously set according to the user's preferences. Both formats are searchable in the database with automatically adjusted search formats. The current STN standard patent publication format can be found in the Appendix.

```
=> d pi
```

```
L8 ANSWER 1 OF 40261 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
PI EP-----1779786 A1 20070502 (200754)* EN 15[6]
    R: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI
      LT LU LV MC MK NL PL PT RO SE SI SK TR YU
JP--2007117747 A 20070517 (200754) JA 19
US-20070106156 A1 20070510 (200754) EN
CA-----2565520 A1 20070428 (200755) EN
BR---200604375 A 20070828 (200758) PT
AU--2006233219 A1 20070517 (200763) EN
IN---200601063 I2 20070629 (200768) EN <--
```

```
=> set pat stn
SET COMMAND COMPLETED
```

```
=> d pi
```

```
L8 ANSWER 1 OF 40261 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
PI EP 1779786 A1 20070502 (200754)* EN 15[6]
    R: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI
      LT LU LV MC MK NL PL PT RO SE SI SK TR YU
JP 2007117747 A 20070517 (200754) JA 19
US 20070106156 A1 20070510 (200754) EN
CA 2565520 A1 20070428 (200755) EN
BR 2006004375 A 20070828 (200758) PT
AU 2006233219 A1 20070517 (200763) EN
```

=> e in2006K001063/pn

E#	FILE	FREQUENCY	TERM
E1	DPCI	1	IN2006K001039/PN
E2	DPCI	1	IN2006K001043/PN
E3	DPCI	1 -->	IN2006K001063/PN
E4	DPCI	1	IN2006K001069/PN
E5	DPCI	1	IN2006K001083/PN
E6	DPCI	1	IN2006K001102/PN
E7	DPCI	1	IN2006K001103/PN
E8	DPCI	1	IN2006K001106/PN
E9	DPCI	1	IN2006K001118/PN
E10	DPCI	1	IN2006K001119/PN
E11	DPCI	1	IN2006K001126/PN
E12	DPCI	1	IN2006K001146/PN

Patent Country

The patent publication country code is part of the patent number in the form of the two letter WIPO code. Additional codes have been defined by Thomson Scientific like RD (Research Disclosure) or TP (International Technology Disclosure) to supplement the WIPO list. A list of valid codes can be found in the appendix. In the corresponding search field the clear text has been additionally indexed. In order to restrict the search to the country of the basic patent only, use the field code /PC.B.

=> e in/pc.b

E#	FILE	FREQUENCY	TERM
E1	DPCI	743	IE/PC.B
E2	DPCI	365	IL/PC.B
E3	DPCI	67 -->	IN/PC.B
E4	DPCI	67	INDIA/PC.B
E5	DPCI	21	INTERNATIONAL TECHNOLOGY DISCLOSURES/PC.B
E6	DPCI	743	IRELAND/PC.B
E7	DPCI	365	ISRAEL/PC.B
E8	DPCI	949	IT/PC.B
E9	DPCI	949	ITALY/PC.B
E10	DPCI	2259597	JAPAN/PC.B
E11	DPCI	2259597	JP/PC.B
E12	DPCI	23581	KOREA, REPUBLIC OF/PC.B

Patent Kind Code

The patent kind code is based on the WIPO kind-of-document code and is used to distinguish different types of patent documents published by a single patent issuing authority.

A definition of all the patent kind codes is given in the appendix. However, interpreting patent kind codes can often require extensive knowledge of the patent laws for the country concerned, and how these have changed over time. The Handbook on Industrial Property Information and Documentation, published by the World Intellectual Property Organization (WIPO) may be of assistance. WIPO lists far more status designations for publications at all stages of the patenting process, and for more countries than are included in the DPCI database.

Until 199223 only the first character of two-character kind codes was input. Now, both characters are available, where applicable.

As patent kind codes have a country-specific meaning they are usually searched with the preceding country code. Only the complete code has been indexed (e.g. country code plus one or from update 199223 two characters kind code). Therefore

to retrieve all European kind A publications requires the use of truncation or masking.

```
=> e in/pk
E#      FILE          FREQUENCY  TERM
---      -
E1      DPCI           1407      IEB3/PK
E2      DPCI          53463     ILA/PK
E3      DPCI           0 -->     IN/PK
E4      DPCI           441       INB/PK
E5      DPCI          3257      INI1/PK
E6      DPCI          2889      INI2/PK
E7      DPCI          1934      INI3/PK
E8      DPCI          3152      INI4/PK
E9      DPCI          5713      INP1/PK
E10     DPCI          8855      INP2/PK
E11     DPCI          5599      INP3/PK
E12     DPCI          8783      INP4/PK
```

```
=> s e7
L9      1934 INI3/PK
```

```
=> d hit
```

```
L9 ANSWER 1 OF 1934 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
PI US 20070099973 A1 20070503 (200744)* EN 22[0]
WO 2007049293 A1 20070503 (200744) EN
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT
KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ
UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE
DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG
KM KN KP KR KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA
NG NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN
TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
IN 2005MU01360 I3 20070727 (200768) EN <--
ADT IN 2005MU01360 I3 IN 2005-MU1360
20051028; US 20070099973 A1 US 2006-406919 20060419; WO 2007049293 A1 WO
2006-IN116 20060404
```

Selecting the patent kind codes results in a list containing the kind codes in a format comprising both country and kind code (PCPK).

```
=> sel 1 pk
E1 THROUGH E3 ASSIGNED
```

```
=> d sel
E#      FILE          FREQUENCY  TERM
---      -
E1      DPCI           1          INI3/PK
E2      DPCI           1          USA1/PK
E3      DPCI           1          WO A1/PK
```

Patent Number and Kind Code

STN offers a highly specific patent document identification key for crossover purposes, STN provides Search (/PNK,/PNK.B), Select (PNK) and Display (PNK) fields for DPCI to support this. The key comprises the STN standard patent publication number following by the patent kind code interspersed by a space.

```
=> e cn2866283/pnk
E#      FILE          FREQUENCY  TERM
---      -
E1      DPCI           1          CN2866149 Y/PNK
E2      DPCI           1          CN2866162 Y/PNK
E3      DPCI           0 -->     CN2866283/PNK
E4      DPCI           1          CN2866283 Y/PNK
E5      DPCI           1          CN2866298 Y/PNK
E6      DPCI           1          CN2866364 Y/PNK
E7      DPCI           1          CN2866381 Y/PNK
E8      DPCI           1          CN2866557 Y/PNK
E9      DPCI           1          CN2866561 Y/PNK
```

```
E10 DPCI 1 CN2866568 Y/PNK
E11 DPCI 1 CN2866605 Y/PNK
E12 DPCI 1 CN2866608 Y/PNK
```

```
=> s e4
```

```
L6 1 "CN2866283 Y"/PNK
(CN2866283 Y#/PNK)
```

```
=> d pnk
```

```
L6 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PNK CN2866283 Y
```

```
=> d hit
```

```
L6 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PI CN-----2866283 Y 20070207 (201054)* ZH 27[17] <--
```

Designated States

The designated states are being provided for European (EP) and PCT (WO) documents to indicate which states the applicant has designated for protection of the invention. On PCT applications states are designated as national (the application will proceed via a national patent authority) and/or regional (the application will proceed via a regional authority, i.e. through the European Patent Office or the African Industrial Property Office). For EP documents, the designated states are always indexed as regional. The designated states are searched using the standard the two letter WIPO code. A list of valid codes can be found in the appendix. In the corresponding search field the clear text has been additionally indexed. For PCT (World) documents, national and regional designated states are both searched in the /DS search field. To restrict a search to one or the other, the appropriate qualifier should be used:

```
=> s w: gb/ds
```

```
L7 1305327 W: GB/DS
```

```
=> d hit
```

```
L7 ANSWER 1 OF 1305327 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PI BE-----1018399 A3 20101005 (201076)* NL 20[0]
WO--2010128456 A2 20101111 (201076) EN
W: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CL CN CO CR
CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU
ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD
ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PE PG PH PL PT RO RS RU
SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG US UZ VC
VN ZA ZM ZW
```

or

```
=> s rw: gb/ds
```

```
L8 1666742 RW: GB/DS
```

For comprehensive search results by patent country, both the Designated States field and the Patent Country field have to be searched. Information from both fields is searchable with code /PCS.

```
=> s de/pcs
```

```
2829586 DE/DS
2558944 DE/PC
L1 4168075 DE/PCS
(DE/DS,PC)
```

```
=> d hit
```

```
L1 ANSWER 1 OF 4168075 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
```

```

PI BE-----1018399 A3 20101005 (201076)* NL 20[0]
WO--2010128456 A2 20101111 (201076) EN
W: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CL CN CO CR
CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU
ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD
ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PE PG PH PL PT RO RS RU
SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG US UZ VC
VN ZA ZM ZW

```

Designated fields are not included in any default displays for reasons of brevity. This is because applicants are now able to include all possible designated states at the time of application. Only at a later date does the applicant have to indicate which specific countries they wish the application to proceed in.

Designated states are included as part of the PI display but not as part of the simplified PN display which is included in standard displays.

`SEL DS` selects each country code from the DS field preceded by the respective designation code. `SEL PCS` selects both the patent countries, and the designated states, the latter without their respective designation codes.

```

=> sel 1 ds
E1 THROUGH E153 ASSIGNED

=> d sel
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI          1          RW: AT/DS
E2      DPCI          1          RW: BE/DS
E3      DPCI          1          RW: BG/DS
...
E46     DPCI          1          RW: ZM/DS
E47     DPCI          1          RW: ZW/DS
E48     DPCI          1          W: AE/DS
E49     DPCI          1          W: AG/DS
E50     DPCI          1          W: AL/DS
...
E152    DPCI          1          W: ZM/DS
E153    DPCI          1          W: ZW/DS

```

Publication Date

Publication dates have been available for both basics and equivalents since the start of 1974 (197401) to the present. For documents published before 1974, the publication date may not be available. The date can be numerically searched in the search field `/PD`, the year deduced from it in `/PY`. The dates and years pertaining to the basic patent have additionally been indexed in `/PY.B` and `/PY.B` respectively. The publication dates can be linked with paragraph proximity to other data pertaining to the same publication.

```

=> s at/pc (p) pd>20060101
      63601 AT/PC
      1106858 PD>20060101
          (PD>20060101)
L2      1812 AT/PC (P) PD>20060101

=> d pi
L2      ANSWER 1 OF 1812 DPCI COPYRIGHT 2008 THE THOMSON CORP on STN
PI      DE 102006008256 A1 20070830 (200766)* DE 9[3]
          AT 503253 A2 20070915 (200766) DE <--

```

DPCI Update

The updates are consecutively numbered in a year (there are currently 82 per year). In *DWPI* these numbers have been referred to a 'Derwent Update' or previously

'Derwent Week'. Since the 'DPCI Update' has been lifted from *DWPI*, the numbers are the same for the same invention in *DWPI* and *DPCI*. For your convenience /DW and /DW.B are valid search fields in DPCI.

=> e 200701/dupd

E#	FILE	FREQUENCY	TERM
E1	DPCI	11369	200681/DUPD
E2	DPCI	5588	200682/DUPD
E3	DPCI	12643	--> 200701/DUPD
E4	DPCI	2980	200702/DUPD
E5	DPCI	17542	200703/DUPD
E6	DPCI	6813	200704/DUPD
E7	DPCI	7616	200705/DUPD
E8	DPCI	11671	200706/DUPD
E9	DPCI	6693	200707/DUPD
E10	DPCI	8357	200708/DUPD
E11	DPCI	5133	200709/DUPD
E12	DPCI	9956	200710/DUPD

=> s e3

L2 12643 200701/DUPD

=> d hit

L2 ANSWER 1 OF 12643 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
 DUPD 200701 pci DPCIFIRST
 201020 pci DPCILATEST

Publication Language

The language is indicated for all patents. This is particularly useful for countries that accept documents in more than one language such as Canada which accepts applications in both French and English. The language can be searched using either the two-letter ISO standard code or the full name of the language in ISO standard. The language is linked with paragraph proximity (P) to the corresponding patent information.

=> e chinese/la

E#	FILE	FREQUENCY	TERM
E1	DPCI	1	AF/LA
E2	DPCI	1	AFRIKAANS/LA
E3	DPCI	922604	--> CHINESE/LA
E4	DPCI	65338	CS/LA
E5	DPCI	65338	CZECH/LA
E6	DPCI	88630	DA/LA
E7	DPCI	88630	DANISH/LA
E8	DPCI	2679239	DE/LA
E9	DPCI	5656730	EN/LA
E10	DPCI	5656730	ENGLISH/LA
E11	DPCI	482307	ES/LA
E12	DPCI	97516	FI/LA

=> s e3

L3 922604 CHINESE/LA

=> d pi

L3 ANSWER 1 OF 922604 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
 PI EP-----2244521 A1 20101027 (201072)* EN 17[8]
 R: 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 SE SI SK TR
 KR--2010115712 A 20101028 (201072) KO
 CN---101868037 A 20101020 (201076) ZH

Number of pages

The number of pages of an original publication can be numerically searched for in /PGN. The number of pages is linked with paragraph proximity (P) to the corresponding patent information.

=> e 100/pgn

E#	FILE	FREQUENCY	TERM
---	----	-----	----
E1	DPCI	2983	98/PGN
E2	DPCI	2878	99/PGN
E3	DPCI	2846	--> 100/PGN
E4	DPCI	2714	101/PGN
E5	DPCI	2660	102/PGN
E6	DPCI	2554	103/PGN
E7	DPCI	2513	104/PGN
E8	DPCI	2429	105/PGN
E9	DPCI	2317	106/PGN
E10	DPCI	2217	107/PGN
E11	DPCI	2279	108/PGN
E12	DPCI	2116	109/PGN

=> s 100/pgn

L4 2846 100/PGN

=> d pi

L4 ANSWER 1 OF 2846 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PI WO--2010119917 A1 20101021 (201071)* JA 100[47]
W: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CL CN CO CR
CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID
IL IN IS KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG
MK MN MW MX MY MZ NA NG NI NO NZ OM PE PG PH PL PT RO RS RU SC SD
SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA
ZM ZW
JP-----4570679 B1 20101027 (201071) JA 38
JP--2010246783 A 20101104 (201072) JA 40

Number of drawings

The number of drawings of an original publication can be numerically searched for in /DRWN. The number of drawings is linked with paragraph proximity (P) to the corresponding patent information.

=> s 100/drwn

L5 174 100/DRWN

=> e 100/drwn

E#	FILE	FREQUENCY	TERM
---	----	-----	----
E1	DPCI	118	98/DRWN
E2	DPCI	164	99/DRWN
E3	DPCI	174	--> 100/DRWN
E4	DPCI	170	101/DRWN
E5	DPCI	131	102/DRWN
E6	DPCI	144	103/DRWN
E7	DPCI	72	104/DRWN
E8	DPCI	104	105/DRWN
E9	DPCI	176	106/DRWN
E10	DPCI	114	107/DRWN
E11	DPCI	82	108/DRWN
E12	DPCI	78	109/DRWN

=> s 100/drwn

L6 174 100/DRWN

=> d pi

L6 ANSWER 1 OF 174 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PI US-----7806897 B1 20101005 (201068)* EN 100[100]

Publication Type

Documents containing Equivalents, Equivalents-treated-as-Basic and Non-Conventional Equivalents can easily searched using the Publication Type field. In the patent information field (PI) Basics are identified by an asterisk "*", Equivalents-Treated-as-Basic are identified with a "B" and Non-Conventional Equivalents are identified with a hash mark "#". For search purposes this translates into "BASIC", "EQUIVALENT", "EQUIVALENTASBASIC" or "EQUIVALENTNONCONVENTION" in the Publication Type search field /PT.

```
=> e a/pt
E#      FILE                FREQUENCY  TERM
--      ----                -
**** START OF FIELD ****
E3      DPCI                0 --> A/PT
E4      DPCI                10589525  BASIC/PT
E5      DPCI                5977933  EQUIVALENT/PT
E6      DPCI                37829   EQUIVALENTASBASIC/PT
E7      DPCI                221893  EQUIVALENTNONCONVENTION/PT
**** END OF FIELD ****

=> s e6
L7      37829 EQUIVALENTASBASIC/PT

=> d pi
L7      ANSWER 1 OF 37829 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PI      FI-----121285 B1 20100915 (201067)* FI 1[0]
WO--2010109077 A1 20100930 (201065)B EN 11[3]
W: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CL CN CO CR
  CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID
  IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME
  MG MK MN MW MX MY MZ NA NG NI NO NZ OM PE PG PH PL PT RO RS RU SC
  SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG US UZ VC VN
  ZA ZM ZW
```

Application Data (ADT, AI, APTS)

Application numbers have been recorded since early 1984 (update 198409) for equivalents from the following sources: BE, DE, EP, GB, JP, SU, WO and NL (examined).

In addition, application numbers have been recorded for the same period for chemical equivalents from: FR, NL (unexamined) and ZA.

Since update 199216 however, all application information is recorded.

Where available, application information appears in the detailed display ADT on the same line as the patent numbers to which they belong in the expanded patent information table.

Search	/AC, /AP, /APTS, /APPS, /AD, /AY, /APT
Display	AI, ADT, APTS
Select	AC, AP, APTS, AD, AY

Notes giving more information on the type of application may also be available. Possible values for these application types include:

Add to	Addition to
Application No	Application Number
CIP of	Continuation-in-part of
Cont of	Continuation of
Derived from	Derived from
Div ex	Division from
Div util	Division from Utility
Previous Appln	Previous Application
Provisional	Provisional
Related to	Related to
Subst for	Substitution for
Supp Discl	Supplementary disclosure

AI is an additionally provided display format omitting the type information for brevity.

All data pertaining to one application is listed on one line and can be linked by using the paragraph proximity operator (P).

The application information may comprise the following individual data elements:

Application Number

Application numbers can be searched and displayed either in STN standard or Derwent standard format. The standard definitions can be found in the appendix. By and large they follow the following patterns:

STN display format CC YYYY-xxxxnnnnnnNd (variable length)

Derwent display format YYYYCC-xxxxnnnnnnNd (fixed 9 or 12-character length)

Index format: CCYYYY-xxxxnnnnnnNd (variable length)

YYYY = year

CC = country code

d = distinguishing mark

x = optional alphanumeric character

n = optional numeric character

N = mandatory numeric character

When standard display formats are being searched for the numbers are converted matching the index format on the fly.

When application and priority application numbers have both to be searched for, the super-search field /APPS is suitable.

Distinguishing marks: Since some patent countries issue independently running number series and therefore potentially clashing document identifiers, some number series receive distinguishing marks in the index in order to avoid said clashes.

US Provisional Applications

All US provisional application numbers are identified with the letter 'P' appended to the end of the serial number, for example, 1998US-80116P. This allows for the differentiation of provisional application numbers from regular application numbers.

```
=> s e3
```

```
L8 1 US1998-80116P/AP
```

```
L8 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
```

```
AI WO 1999-US6740 19990329; US 1998-80116P 19980331; US 1999-265284  
19990309; AU 1999-32119 19990329; BR 1999-9324 19990329; CN 1999-804581  
19990329; CN 1999-804581 19990329; EP 1999-914224 19990329; WO 1999-US6740  
19990329; WO 1999-US6740 19990329; WO 1999-US6740 19990329; WO 1999-US6740  
19990329; WO 1999-US6740 19990329; TW 1999-105254 19990527; JP 2000-540802  
19990329; KR 2000-710874 20000929; MX 2000-9631 20000929; MX 2000-9631  
20000929
```

SEL AI, ADT and AP are all equivalent and yield a list of application numbers.

```
=> sel 1 adt
E1 THROUGH E11 ASSIGNED
```

```
=> d sel
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI           6          WO1999-US6740/AP
E2      DPCI           2          CN1999-804581/AP
E3      DPCI           2          MX2000-9631/AP
E4      DPCI           1          AU1999-32119/AP
E5      DPCI           1          BR1999-9324/AP
E6      DPCI           1          EP1999-914224/AP
E7      DPCI           1          JP2000-540802/AP
E8      DPCI           1          KR2000-710874/AP
E9      DPCI           1          TW1999-105254/AP
E10     DPCI           1          US1998-80116P/AP
E11     DPCI           1          US1999-265284/AP
```

Application Country

Application country codes follow the same pattern as the publication country codes: The WIPO or Thomson Scientific's own codes and their textual expressions are indexed in /AC

```
=> e c/ac
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI          154986    BRAZIL/AC
E2      DPCI           1          BULGARIA/AC
E3      DPCI           0 -->    C/AC
E4      DPCI          331678    CA/AC
E5      DPCI          331678    CANADA/AC
E6      DPCI          34155     CH/AC
E7      DPCI          415173    CHINA/AC
E8      DPCI          415173    CN/AC
E9      DPCI           7851     CS/AC
E10     DPCI          37540     CZ/AC
E11     DPCI          37540     CZECH REPUBLIC/AC
E12     DPCI           7851     CZECHOSLOVAKIA/AC
```

Application Type

The application types listed above are indexed as bound phrases in the /APT search field.

```

=> e a/apt
E#      FILE              FREQUENCY  TERM
--      ----              -
**** START OF FIELD ****
E3      DPCI              0 --> A/APT
E4      DPCI              1404     ADD TO/APT
E5      DPCI              14844    APPLICATION NO/APT
E6      DPCI              240165   CIP OF/APT
E7      DPCI              349413   CONT OF/APT
E8      DPCI              4932     DERIVED FROM/APT
E9      DPCI              413385   DIV EX/APT
E10     DPCI              1058     DIV UTIL/APT
E11     DPCI              514113   PCT APPLICATION/APT
E12     DPCI              76949    PCT NAT. ENTRY/APT

```

```

=> s e8
L1      4932 "DERIVED FROM"/APT

```

```

=> d adt

```

```

L1      ANSWER 1 OF 4932 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
ADT     GB 2355095 A Derived from GB 1997-15131 19970717; GB 2355095 A GB
        2000-30829 20001218

```

Application Date

The application date is numerically indexed in /AD and the year on its own in /AY.

```

=> s at/ac (p) ad>20070101
        27561 AT/AC
        1072131 AD>20070101
          (AD>20070101)
L2      1774 AT/AC (P) AD>20070101

```

```

=> d hit

```

```

L2      ANSWER 1 OF 1774 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
ADT     EP 2243354 A1 EP 2010-3769 20100408; AT 508088 A1 AT 2009-558 20090409

```

Application Number in Thomson Scientific Format

Application numbers can also be searched and displayed Thomson Scientific standard. The standard definitions can be found in the appendix. By and large they follow the following pattern:

Thomson Scientific display format YYYYCC-xxxxxxxxxxxxxxxxNd (fixed 9-character length)

Index format: YYYYCC-xxxxxxxxxxxxxxxxNd (variable length)

YYYY = year

CC = country code

d = distinguishing mark

x = optional alphanumeric character

n = optional numeric character

The APTS field contains numbers from the standard Derwent numbers supplemented in particular for older application numbers with numbers from other sources. The /APTS search field has been equipped with software to adjust the format of Derwent and STN standard numbers to the Thomson Scientific format.

=> e 1999at-/apts

E#	FILE	FREQUENCY	TERM
E1	DPCI	1	1998ZA-000011960/APTS
E2	DPCI	1	1998ZA-000011961/APTS
E3	DPCI	0 -->	1999AT-000000000/APTS
E4	DPCI	1	1999AT-000000001/APTS
E5	DPCI	1	1999AT-000000007/APTS
E6	DPCI	1	1999AT-000000008/APTS
E7	DPCI	1	1999AT-000000010/APTS
E8	DPCI	1	1999AT-000000011/APTS
E9	DPCI	1	1999AT-000000018/APTS
E10	DPCI	1	1999AT-000000020/APTS
E11	DPCI	1	1999AT-000000021/APTS
E12	DPCI	1	1999AT-000000024/APTS

=> s e5

L3 1 1999AT-000000007/APTS

=> d hit

L3 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
AI WO 2000-EP11 20000104; AT 1999-7 19990104; AU 2000-22875 20000104; DE
2000-50010376 20000104; EP 2000-901500 20000104; EP 2000-901500 20000104;
EP 2000-901500 20000104; WO 2000-EP11 20000104; WO 2000-EP11 20000104; WO
2000-EP11 20000104

Filing Details (FDT)

Content:

The patent filing details field contains information about patent family members that are not represented in the patent family table. Although the specific data available varies from patent to patent, the types of information that may accompany patent number and kind codes are:

- Related patent numbers
- Filing notes about divisions, continuations and other relationships

The filing details can be displayed with the format `FDT`.

`SEL FDT` selects the related patent number only.

Search	<code>/FDT, /FDT.PC, /FDT.PN, /FDT.PK, /FDT.TP</code>
Display	<code>FDT</code>
Select	<code>FDT, FDT.PC, FDT.PN, FDT.PK</code>

Related Patent Number

The related patent number for the filing details can be searched in the search field `/FDT` or `/FDT.PN`. The format follows the pattern like in `/PN`.

```
=> e fi/fdt.pn,fdt
E#  FILE          FREQUENCY  TERM
--  ----          -
E1  DPCI          1          ES8900002/FDT.PN
E2  DPCI          1          ES8900002/FDT
E3  DPCI          0 --> FI/FDT.PN
E4  DPCI          0          FI/FDT
E5  DPCI          1          FI2000000009/FDT.PN
E6  DPCI          1          FI2000000009/FDT
E7  DPCI          1          FI2000000013/FDT.PN
E8  DPCI          1          FI2000000013/FDT
E9  DPCI          1          FI2000000014/FDT.PN
E10 DPCI          1          FI2000000014/FDT
E11 DPCI          1          FI2000000025/FDT.PN
E12 DPCI          1          FI2000000025/FDT

=> s e5
L1  1 FI2000000009/FDT.PN
    (FI2000000009/FDT.PN)

=> d fdt

L1  ANSWER 1 OF 1  DPCI COPYRIGHT 2011  THOMSON REUTERS on STN

FDT  FI 107650 B1 Previous Publ FI 2000000009 A; AU 2001026832 A Based on WO
2001050482 A
```

`SEL FDT` selects the related patent number only, as does `SEL FDT.PN`.

```
=> sel fdt
E1 THROUGH E2 ASSIGNED
```

```
=> d sel
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI          1          FI2000000009/FDT
E2      DPCI          1          WO2001050482/FDT
```

Related Patent Type

Add in	Addition in
Add to	Addition to
Based on	Based on
CIP of	Continuation-in-part of
CMEA No	Council of Mutual Economic Assistance Number
Cont of	Continuation of
Div ex	Division ex
Div in	Division in
Previous Publ	Previously published in
Reissue of	Reissue of
Related to	Related to

```
=> e f/fdt.tp
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI          231012     DIV EX/FDT.TP
E2      DPCI          6059       DIV IN/FDT.TP
E3      DPCI          0 -->      F/FDT.TP
E4      DPCI          1914375    PREVIOUS PUBL/FDT.TP
E5      DPCI          7243       REISSUE OF/FDT.TP
E6      DPCI          26086      RELATED TO/FDT.TP
**** END OF FIELD ****
```

```
=> s e5
L2      7243 "REISSUE OF"/FDT.TP
```

```
=> d fdt
```

```
L2      ANSWER 1 OF 7243 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
```

```
FDT US 41771 E Div Ex US 7069577 B; US 41771 E Div Ex US 6334219 B; US 41771 E
Cont of US 7535822 B; US 41771 E Cont of US 6279158 B; US 41771 E Reissue
of US 7385916 B
```

Related Patent Country

Filing detail country codes follow the same pattern as the publication country codes: The WIPO or Thomson Scientific's own codes and their textual expressions are indexed in /FDT.PC.

```
=> e peru/fdt.pc
E#      FILE          FREQUENCY  TERM
--      ----          -
E1      DPCI          34863      NORWAY/FDT.PC
E2      DPCI          3361       NZ/FDT.PC
```


E3	DPCI	0	-->	PERU/FDT.PC
E4	DPCI	7323		SK/FDT.PC
E5	DPCI	7323		SLOVAKIA/FDT.PC
E6	DPCI	1		SPAIN/FDT.PC
E7	DPCI	290		SU/FDT.PC
E8	DPCI	287		UNITED KINGDOM/FDT.PC
E9	DPCI	377766		UNITED STATES/FDT.PC
E10	DPCI	377766		US/FDT.PC
E11	DPCI	290		USSR/FDT.PC
E12	DPCI	1235897		WO/FDT.PC

Related Patent Kind Code

Related Patent Kind Codes follow the same pattern as the patent publication kind codes. The list of available codes for the patent publication kind codes in the appendix apply.

=> e bg/fdt.pk

E#	FILE	FREQUENCY	TERM
--	----	-----	----
E1	DPCI	147461	AUA/FDT.PK
E2	DPCI	4882	AUB/FDT.PK
E3	DPCI	0	--> BG/FDT.PK
E4	DPCI	10	BGA/FDT.PK
E5	DPCI	12	CAA/FDT.PK
E6	DPCI	24	CAC/FDT.PK
E7	DPCI	2023	CSA/FDT.PK
E8	DPCI	29	CSB/FDT.PK
E9	DPCI	17878	CZA/FDT.PK
E10	DPCI	50	DDA/FDT.PK
E11	DPCI	14034	DEA/FDT.PK
E12	DPCI	5	DEG/FDT.PK

=> s e4

L3 10 BGA/FDT.PK

=> d hit

L3 ANSWER 1 OF 10 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

FDT SU 1820432 A1 CMEA No BG 45029 A

Priority Application Data (PRAI)

Content:

When an inventor applies for a patent in several countries, the first application (the one with the earliest date), regardless of the country in which it was filed, is the priority application. The date of the first application is referred to as the priority date.

All priorities for each patent since the middle of 1977 (update 197729). Prior to that date, the number of priorities entered was restricted to ten.

In some cases, a patent in one country has broader coverage than a single patent in another country. This situation can result in a patent family having more than one priority application. Multiple priorities can also result when new work is carried out on an invention during the 12 month period between original application filing and priority-based filing abroad. When there are multiple priority applications, the latest priority of the basic patent displays in the Priority Information field, followed by all related priorities. These related priorities may be indexed from the basic patent, equivalent patents in the family, or patents in related families. The latter category includes patents of additions, continuations, continuations-in-part and divisions that are linked to the patent family through their common priorities. This information displays in the table for each patent where applicable.

Search	/PRC,/PRC.B,/PRN,/PRN.B,/APPS,/PRD,/PRDF,/PRY,/PRYF,/PRTS
Display	PRAI, PRTS
Select	PRC, PRN, PRN.B, PRD, PRDF, PRD.B, PRY, PRYF
Sort	PRDF, PRYF

Use sentence (S) proximity to link data pertaining to one priority application, e.g. priority country and date/year:

```
=> s de/prc (s) pry=1999
      1328608 DE/PRC
      563864 PRY=1999
L4      60689 DE/PRC (S) PRY=1999
```

```
=> d hit
```

```
L4 ANSWER 1 OF 60689 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PRAI DE 1999-19955984 19991120
```

The complete priority information can be displayed with the format PRAI (PRN being a synonym):

```
=> d 29 prai
```

```
L4 ANSWER 29 OF 60689 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PRAI WO 2000-EP7258 20000728
      DE 1999-29902108 19990208
      DE 1999-19903807 19990202
```

Priority Application Number

The priority application number format follows the patterns already outlined for the application numbers, yet the number of countries covered is far greater than the 40+ for the application numbers. A complete listing is given in the appendix.

Since the coverage is wider more distinguishing marks were required. In particular utility model applications needed additionally to be catered for. Utility Model applications in, for example, Japan, Germany, Spain, Italy, China, and Brazil, are sometimes listed as priority applications when a patent application is filed in another country. All Utility Model applications receive a distinguishing mark in the form of a 'U' appended to the serial number with the exception of the German numbers for which the newer ones have the 'utility mark' already included at the beginning of the serial number. Note that only German Utility Model applications (and some French) have been covered in *DWPI* with coverage starting with update 199543.

```
=> e AT 2004-765U /prn
```

E#	FILE	FREQUENCY	TERM
E1	DPCI	1	AT2004-763/PRN
E2	DPCI	1	AT2004-764/PRN
E3	DPCI	1 -->	AT2004-765U/PRN
E4	DPCI	1	AT2004-767/PRN
E5	DPCI	1	AT2004-769/PRN
E6	DPCI	1	AT2004-771/PRN
E7	DPCI	1	AT2004-775U/PRN
E8	DPCI	1	AT2004-776/PRN
E9	DPCI	1	AT2004-776U/PRN
E10	DPCI	1	AT2004-780/PRN
E11	DPCI	1	AT2004-780U/PRN
E12	DPCI	1	AT2004-783/PRN

```
=> s e3
```

```
L5 1 AT2004-765U/PRN
```

```
=> d hit
```

```
L5 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PRAI AT 2004-765U 20041022
```

```
=> e us2007-/prn
```

E#	FILE	FREQUENCY	TERM
E1	DPCI	1	US2006-999770P/PRN
E2	DPCI	1	US2006-999999/PRN
E3	DPCI	0 -->	US2007-/PRN
E4	DPCI	2	US2007-0/PRN
E5	DPCI	1	US2007-1000/PRN
E6	DPCI	1	US2007-100210P/PRN
E7	DPCI	1	US2007-1003P/PRN
E8	DPCI	1	US2007-1004P/PRN
E9	DPCI	1	US2007-1005/PRN
E10	DPCI	1	US2007-1007/PRN
E11	DPCI	1	US2007-1009/PRN
E12	DPCI	1	US2007-1011P/PRN

```
=> s e6
```

```
L6 1 US2007-100210P/PRN
```

```
=> d hit
```

```
L6 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PRAI US 2008-255432 20081021
US 2007-100210P 20071024
US 2007-210P 20071024
```

Priority Application Country

Priority application country codes follow the same pattern as the publication country codes: The WIPO or Thomson Scientific's own codes and their textual expressions are indexed in /PRC

```
=> e tw/prc
E#      FILE              FREQUENCY  TERM
--      ----              -
E1      DPCI              37         TUNISIA/PRC
E2      DPCI              1780        TURKEY/PRC
E3      DPCI              39074      --> TW/PRC
E4      DPCI              1          TZ/PRC
E5      DPCI              922        UA/PRC
E6      DPCI              922        UKRAINE/PRC
E7      DPCI              32         UNITED ARAB EMIRATES/PRC
E8      DPCI              403311     UNITED KINGDOM/PRC
E9      DPCI              2990528    UNITED STATES/PRC
E10     DPCI              74         URUGUAY/PRC
E11     DPCI              2990528    US/PRC
E12     DPCI              102526     USSR/PRC

=> s e7
L7              32 "UNITED ARAB EMIRATES"/PRC

=> d hit

L7  ANSWER 1 OF 32  DPCI COPYRIGHT 2011  THOMSON REUTERS on STN
PRAI AE 2008-129320 20081222
```

Priority Application Date

The priority application date is numerically indexed in /PRD and the year on its own in /PRY.

```
=> s prd>20070101
L8      734260 PRD>20070101
          (PRD>20070101)

=> d hit

L8  ANSWER 1 OF 734260  DPCI COPYRIGHT 2011  THOMSON REUTERS on STN
PRAI BE 2008-679 20081218
```

The earliest priority can be searched with the qualifier /PRDF and /PRYF.

```
=> s prd>20070101 and pryf=2006
          734260 PRD>20070101
          (PRD>20070101)
          348519 PRYF=2006
L9      55841 PRD>20070101 AND PRYF=2006

=> d hit

L9  ANSWER 1 OF 55841  DPCI COPYRIGHT 2011  THOMSON REUTERS on STN
PRAI US 2007-951277 20071205
      US 2006-868875P 20061206
```

SEL PRD/PRDF selects the date in the usual YYYYMMDD format.

```
=> sel 1 prdf
E1 THROUGH E1 ASSIGNED

=> d sel
E#      FILE              FREQUENCY  TERM
--      ----              -
E1      DPCI              1          20061206/PRDF
```

Title (TI)

Thomson Scientific value-added titles are written to highlight the content and novelty of the invention disclosed in the patent specification. They are not based on the original title or its exact translation. All words from the title are searchable in the title search field /TI and in the basic index (/BI). Simultaneous left and right truncation (SLART) is available in both search fields. Word proximity is implied if a proximity operator is omitted between words.

In some of the records entered in the database prior to 1971, the titles may be short. Caution is necessary if a search is restricted to /TI for this period.

British Spelling

Prior to 1999, British spelling is generally used in *DPCI*. From 1999, American spelling (with British terminology) was adopted. As a precaution, both spellings should be covered in the search strategy to ensure complete retrieval.

Plurals/Abbreviations

Not many commonly occurring words in titles are abbreviated, yet the abbreviation search option is available if desired. Further abbreviations like units of measurement, electrical and engineering elements, chemical groups and chemical formulae may occur occasionally. See the appendix for a list of abbreviations. However, all standard (and non-standard) abbreviations are automatically taken into account with the SET ABBREVIATIONS ON command. This is also true of plurals with the SET PLURALS ON function.

Special characters

From update 197804 until the end of 1998 the “*” is used with monomers in Thomson Scientific titles to indicate that the monomer is polymerised. Search terms are indexed twice, with and without the “*” mark.

```
=> s ethylene*/ti
L1      8455 ETHYLENE*/TI
```

```
=> d ti
```

```
L1      ANSWER 1 OF 8455  DPCI COPYRIGHT 2008          THE THOMSON CORP on STN
```

```
TI      Production of propylene*-ethylene* copolymer - comprises using solid
        component catalyst containing organo-aluminium compound,
        alkyl-alkoxy-silane and e.g magnesium halide
```

From update 197804 until the end of 1998 the “@” is used to differentiate between an element or its alloys and compounds of the element, e.g. COBALT@ for cobalt or its alloys, COBALT for compounds of cobalt. The “@” symbol is also used to differentiate between the unsubstituted, uncompounded polymer and its copolymers, e.g. POLYTETHYLENE@ for unsubstituted, uncompounded polyethylene and POLYETHYLENE for copolymers.

```
=> s ethylene*/ti
```

L10 9177 ETHYLENE*/TI

=> d ti

L10 ANSWER 1 OF 9177 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

TI Container inner seal - comprises pulp-board wax layer and foil with coating of wax polystyrene resin and ethylene* copolymer

Citation Data

Citation Counters (CTS, CTCS)

Citation counters provide an overview of the wealth of citations available for a document, but can also be used for analysis and search purposes.

Use the display format `CTCS` for a complete set of counters, `CTS` for a reduced set, `CDPC` for the counters pertaining to the citations, `CGPC` for the citings, and `REC` for the literature citations.

CTS CITATION COUNTERS

```
-----
PNC.D      19      Cited Patents Count
PNC.G      99      Citing Patents Count
IAC.D       3      Cited Issuing Authority Count
IAC.G       7      Citing Issuing Authority Count
CRC        12      Cited Literature Reference Count
OSC.D      15      Cited Patent WPI Accession Number Count
OSC.G      54      Citing Patent WPI Accession Number Count
```

CTCS CITATION COUNTERS

```
-----
PNC.D      19      Cited Patents Count (total)
PNC.DI     0      Cited Patents Count (by inv.)
PNC.DX     19      Cited Patents Count (by exam.)
PNC.DO     0      Cited Patents Count (in opp. doc.)
PNC.DTH    0      Cited Patents Count (third party)
PNC.DUN    0      Cited Patents Count (undefined)
IAC.D       3      Cited Issuing Authority Count (total)
IAC.DI     0      Cited Issuing Authority Count (by inv.)
IAC.DX     3      Cited Issuing Authority Count (by exam.)
IAC.DO     0      Cited Issuing Authority Count (in opp. doc.)
IAC.DTH    0      Cited Issuing Authority Count (third party)
IAC.DUN    0      Cited Issuing Authority Count (undefined)

PNC.G      99      Citing Patents Count (total)
PNC.GI     10      Citing Patents Count (by inv.)
PNC.GX     91      Citing Patents Count (by exam.)
PNC.GO     0      Citing Patents Count (in opp. doc.)
PNC.GTH    0      Citing Patents Count (third party)
PNC.GUN    0      Citing Patents Count (undefined)
IAC.G       7      Citing Issuing Authority Count (total)
IAC.GI     3      Citing Issuing Authority Count (by inv.)
IAC.GX     7      Citing Issuing Authority Count (by exam.)
IAC.GO     0      Citing Issuing Authority Count (in opp. doc.)
IAC.GTH    0      Citing Issuing Authority Count (third party)
IAC.GUN    0      Citing Issuing Authority Count (undefined)

CRC        12      Cited Literature Reference Count (total)
CRC.I      0      Cited Literature Reference Count (by inv.)
CRC.X      12      Cited Literature Reference Count (by exam.)
CRC.O      0      Cited Literature Reference Count (in opp. doc.)
CRC.TH     0      Cited Literature Reference Count (third party)
CRC.UN     0      Cited Literature Reference Count (undefined)

OSC.D      15      Cited Patent WPI Accession Number Count (total)
OSC.DX     15      Cited Patent WPI Accession Number Count (by exam.)
OSC.DI     0      Cited Patent WPI Accession Number Count (by inv.)
OSC.DO     0      Cited Patent WPI Accession Number Count (in opp. doc.)
OSC.DTH    0      Cited Patent WPI Accession Number Count (third party)
OSC.DUN    0      Cited Patent WPI Accession Number Count (undefined)
OSC.G      54      Citing Patent WPI Accession Number Count (total)
OSC.GX     49      Citing Patent WPI Accession Number Count (by exam.)
OSC.GI     10      Citing Patent WPI Accession Number Count (by inv.)
OSC.GO     0      Citing Patent WPI Accession Number Count (in opp. doc.)
OSC.GTH    0      Citing Patent WPI Accession Number Count (third party)
OSC.GUN    0      Citing Patent WPI Accession Number Count (undefined)
```

All individual codes above are selectable and can therefore be used for statistical analyses.

```

=> s de/pc and cyc=1 ran=2006
      68055 DE/PC
      207866 CYC=1
L12   15602 DE/PC AND CYC=1

=> ana l5 1- pnc.d
L13   ANALYZE L5 1- PNC.D :      1 TERM

=> ana l12 1- pnc.d
ANALYZE IS APPROXIMATELY 4% COMPLETE
...
ANALYZE IS APPROXIMATELY 99% COMPLETE
L14   ANALYZE L12 1- PNC.D :    29 TERMS

=> d
L14   ANALYZE L12 1- PNC.D :    29 TERMS

TERM #  # OCC  # DOC  % DOC  PNC.D
-----
   1    4746  4746  30.42  0/PNC.D
   2    1881  1881  12.06  3/PNC.D
   3    1779  1779  11.40  4/PNC.D
   4    1611  1611  10.33  2/PNC.D
   5    1332  1332   8.54  5/PNC.D
   6    1007  1007   6.45  6/PNC.D
   7     909   909   5.83  1/PNC.D
   8     712   712   4.56  7/PNC.D
   9     513   513   3.29  8/PNC.D
  10     326   326   2.09  9/PNC.D

```

For search purposes all of the numerical values above can be numerically searched in the corresponding search fields.

=> s osc.d>20

L15 420901 OSC.D>20

=> d hit

L15 ANSWER 1 OF 420901 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

CTCS CITATION COUNTERS

```
-----
PNC.D      45      Cited Patents Count (total)
PNC.DI     0      Cited Patents Count (by inv.)
PNC.DX     45      Cited Patents Count (by exam.)
PNC.DO     0      Cited Patents Count (in opp. doc.)
PNC.DTH    0      Cited Patents Count (third party)
PNC.DUN    0      Cited Patents Count (undefined)
IAC.D      2      Cited Issuing Authority Count (total)
IAC.DI     0      Cited Issuing Authority Count (by inv.)
IAC.DX     2      Cited Issuing Authority Count (by exam.)
IAC.DO     0      Cited Issuing Authority Count (in opp. doc.)
IAC.DTH    0      Cited Issuing Authority Count (third party)
IAC.DUN    0      Cited Issuing Authority Count (undefined)

PNC.G      0      Citing Patents Count (total)
PNC.GI     0      Citing Patents Count (by inv.)
PNC.GX     0      Citing Patents Count (by exam.)
PNC.GO     0      Citing Patents Count (in opp. doc.)
PNC.GTH    0      Citing Patents Count (third party)
PNC.GUN    0      Citing Patents Count (undefined)
IAC.G      0      Citing Issuing Authority Count (total)
IAC.GI     0      Citing Issuing Authority Count (by inv.)
IAC.GX     0      Citing Issuing Authority Count (by exam.)
IAC.GO     0      Citing Issuing Authority Count (in opp. doc.)
IAC.GTH    0      Citing Issuing Authority Count (third party)
IAC.GUN    0      Citing Issuing Authority Count (undefined)

CRC        14      Cited Literature Reference Count (total)
CRC.I      0      Cited Literature Reference Count (by inv.)
CRC.X      14      Cited Literature Reference Count (by exam.)
CRC.O      0      Cited Literature Reference Count (in opp. doc.)
CRC.TH     0      Cited Literature Reference Count (third party)
CRC.UN     0      Cited Literature Reference Count (undefined)

OSC.D      44      Cited Patent WPI Accession Number Count (total)
OSC.DX     44      Cited Patent WPI Accession Number Count (by exam.)
OSC.DI     0      Cited Patent WPI Accession Number Count (by inv.)
OSC.DO     0      Cited Patent WPI Accession Number Count (in opp. doc.)
OSC.DTH    0      Cited Patent WPI Accession Number Count (third party)
OSC.DUN    0      Cited Patent WPI Accession Number Count (undefined)
OSC.G      0      Citing Patent WPI Accession Number Count (total)
OSC.GX     0      Citing Patent WPI Accession Number Count (by exam.)
OSC.GI     0      Citing Patent WPI Accession Number Count (by inv.)
OSC.GO     0      Citing Patent WPI Accession Number Count (in opp. doc.)
OSC.GTH    0      Citing Patent WPI Accession Number Count (third party)
OSC.GUN    0      Citing Patent WPI Accession Number Count (undefined)
```

Examiner's Fields of Search (EXF)

This field contains the international or US national patent classifications the examiner used for surveying the technology of the application as published on the patent publication. `EXF` (Examiner Field of Search) or `EXFB` (Examiner Field of Search Brief) are the formats required for display. Standard formats like `ALL` also comprise this data.

```
EXFB EXAMINERS FIELD OF SEARCH
-----
NCL 424185100; 435172100; 435172300; 435320100; 435410000; 435419000;
435430000; 435468000; 435469000; 435470000; 435471000; 435476000;
435477000; 435069100; 435069700; 514006120; 530300000; 530350000;
530385000; 536023100; 536023500; 536023700; 800278000; 800288000;
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IC A01H; A61K; C07K; C12N
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NCL US 6344600 B1
435172100; 435172300; 435320100; 435410000; 435419000; 435430000;
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IC FR 2736930 A1
A01H; A61K; C07K; C12N
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IC.F

The International Patent Classification codes used by the examiner can be searched for in /IC.F. SEL IC.F will lift them from the display and allow for statistical analysis as well. Please note that the format may not always comply to the usual standard in force at STN, because it has been lifted from the documents on an as-is basis.

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E1      DPCI                1          A61J031-00/IC.F
E2      DPCI                1          A61JA61J1/20/IC.F
E3      DPCI                10904 --> A61K/IC.F
E4      DPCI                1          A61K 31/40/IC.F
E5      DPCI                1          A61K 31/435/IC.F
E6      DPCI                1          A61K 31/445/IC.F
E7      DPCI                1          A61K 31/47/IC.F
E8      DPCI                2          A61K 31/55/IC.F
E9      DPCI                2          A61K 37/02/IC.F
E10     DPCI                1          A61K 47/14/IC.F
E11     DPCI                1          A61K 47/32/IC.F
E12     DPCI                1          A61K 7/16/IC.F
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L18      10904 A61K/IC.F
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=> d exf
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L18 ANSWER 1 OF 10904 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
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EXF EXAMINERS FIELD OF SEARCH
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IC EP 587106 A3
A61K; C07B; C07C; C07F
EP 587106 B1
C07C051-41
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NCL.F

The US National Patent Classification codes used by the examiner can be searched for in /NCL.F. Formatting and indexing has been done according to STN standards as far as possible. SEL NCL.F will lift them from the display and allow for statistical analysis as well.

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L19          1 500303000/NCL.F
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=> d exfb
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L19 ANSWER 1 OF 1 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
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EXFB EXAMINERS FIELD OF SEARCH
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514008000; 536024500
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Patent Citations (CDP, CDPB)

The patent citations as published in the patent specification can be displayed with CDP (Cited Patents) or CDPB (Cited Patents Brief). The format CDP.B will only display the cited patents pertaining to the basic patent publication in the family. Citations can be assigned by examiners, inventors or third parties or in opposition procedures. This is indicated in the CDP/CDPB/CDP.B displays by an 'E', 'I', 'T' or 'O'. Undefined sources are labelled as 'Undef'.

Generally all data and their relationships in the citations can be searched for.

- Patent data of the citing family member
 - Patent Number (/PN.F)
 - Patent Kind Code (PK.F)
 - Patent Country (PC.F)
- Cited patent data
 - Patent Number (/PN.D, /PN.DX, /PN.DI, /PN.DO, /PN.DTH)
 - Patent Kind Code (/PK.D, /PK.DX, /PK.DI, /PK.DO, /PK.DTH)
 - Patent Country (/PC.D, /PC.DX, /PC.DI, /PC.DO, /PC.DTH)
 - Cited WPI accession number (/OS.D, /OS.DX, /OS.DI, /OS.DO, /OS.DTH)
 - Category (/CAT.D)
(EP, FR and WO examiners can attach codes to their citations indicating the relevance.)
- Cited patent assignees (/PA.D, /PA.DX, /PA.DI, /PA.DO, /PA.DTH)
- Cited patent assignee codes (/PACO.D, /PACO.DX, /PACO.DI, /PACO.DO, /PACO.DTH)
- Cited inventors (/IN.D, /IN.DX, /IN.DI, /IN.DO, /IN.DTH)

All data pertaining to an individual citation entry carry the same paragraph proximity value. Hence the (P) operator can be used in the citation part of DPCI to link all data that belongs to one citation entry, i.e. the citing patent number and country code of the master patent family (/PN.F, PC.F), the category (CAT.D), the cited patent number (/PN.D), its kind (/PK.D) and DWPI accession number (/OS.D), and the inventor, patent assignee name and code of the cited patent (/IN.D, /PA.D, /PACO.D) or the cited patent number and country code of the master patent family (/PN.F, /PC.F), the category (/CAT.G), the citing patent number (/PN.G), its kind (/PK.G) and DWPI accession number (/OS.G), and the inventor, patent assignee name and code of the citing patent (/IN.G, /PA.G, /PACO.G).

Examples:

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=> S PL/PC.D(P)US/PC.F
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(US patents that cite Polish patents)

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=> S DURACELL/PA.GX(P)JP/PC.F
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(the examiners' of Duracell applications that cite Japanese patents)

All data common to the bibliography and citation areas like patent numbers are indexed in the same format as far as possible in order to ensure smooth crossing over. Yet note that sometimes there are exceptions. For instance cited patent numbers may not be members of the WPI coverage if they are very old.

Literature Citations (REN)

The literature citations as published in the patent specification can be displayed with REN (Referenced Non-Patent Literature) or RENB (Referenced Non-Patent Literature Brief). The format REN.B will only display the literature citations pertaining to the basic patent publication in the family.

Generally all data and their relationships in the literature citations can be searched for.

- Patent data of the citing family member
 - Patent Number (/PN.F)
 - Patent Kind Code (PK.F)
 - Patent Country (PC.F)
- Cited literature
 - Reference parsed into single words (/REN, /REN.X, /REN.I, /REN.O, /REN.TH)
 - Category (/RENC)
(EP, FR and WO examiners can attach codes to their citations indicating the relevance.)

All data pertaining to an individual citation entry carry the same paragraph proximity value. Hence the (P) operator can be used in the citation part of DPCI to link all data that belongs to one citation entry, i.e. the citing patent number and country code of the master patent family (/PN.F, /PC.F), the category (/CAT.D), and the cited reference parsed into single words (/REN, /REN.X, /REN.I, /REN.O, /REN.TH). Single words from the reference can be linked with Sentence or Word proximity operators.

Examples:

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=> s (stereoselective (s) synthesis)/REN (p) x/renc
      2827 STEREOSELECTIVE/REN
      101759 SYNTHESIS/REN
      274767 X/RENC
L20      212 (STEREOSELECTIVE (S) SYNTHESIS)/REN (P) X/RENC

=> d ren
```

REN Literature Citations

```

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Citing Publication   By   Cat   Literature Reference
-----
WO 2010116317 A1    E    A     RENCUIROSI A ET AL: "Human milk
oligosaccharides: an enzymatic protection
step simplifies the synthesis of 3'- and
6'-O-sialyllactose and their analogues"
CARBOHYDRATE RESEARCH, ELSEVIER SCIENTIFIC
PUBLISHING COMPANY. AMSTERDAM, NL, vol. 337,
no. 6, 15 March 2002 (2002-03-15), pages
473-483, XP004343543 ISSN: 0008-6215
E    A     MULLER H E ET AL: "Occurrence and some
properties of neuraminidases in Haemophilus
avium and Haemophilus paragallinarum"
VETERINARY MICROBIOLOGY, ELSEVIER BV, NL,
vol. 2, no. 4, 1 December 1977 (1977-12-01),
pages 303-312, XP023915296 ISSN: 0378-1135
[retrieved on 1977-12-01]
E    X     PAZYNINA G ET AL: "Simple stereoselective
synthesis of alpha2-6 sialooligosaccharides"
TETRAHEDRON LETTERS, ELSEVIER, AMSTERDAM, NL
LNKD- DOI:10.1016/S0040-4039(02)01983-4, vol.
43, no. 45, 4 November 2002 (2002-11-04),
pages 8011-8013, XP004387177 ISSN: 0040-4039
<--

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=> s sour cream/ren
    292 SOUR/REN
    1024 CREAM/REN
L21      8 SOUR CREAM/REN
        ((SOUR(W) CREAM)/REN)

```

=> d renb

L21 ANSWER 1 OF 8 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN

Literature Citations

```

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By       Literature Reference
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E        "Low-Calorie, Baked Snack . . . 'Potato Pips'", Engineered Foods
Magazine, p. 58 (Aug. 8, 1984).
E        "Methods in Carbohydrate Chemistry," Academic Press, 1964, vol. IV, pp.
168-169.
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E        Chemical Abstract #58556d of 17 Foods. vol. 80, 1974.
E        Desrosier, N.W., Elements of Food Technology, AVI Publ. Co., Inc.,
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E        Encyclopedia of Food Technology, vol. 2, pp. 262-267, (1974), The AVI
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E        Faridi, H., The Science of Cookie and Cracker Production, Chapman Hall,
p. 241, 1994.
E        Flav-R-Grain(R) Fine Product Data, Quali Tech, Inc. (Oct. 1995).
E        Foods and Food Preparation Encyclopedia, Van Nostrand Reinhold Co.,
Inc., NY, NY, 1982, pp. 282-284.
E        Kotschevar, L.H., Standards, Principals, and Techniques in Quality Food
Production, Van Nostrand Reinhold, NY, NY, 1988, pp. 404-407.
E        Matz, Cookie and Cracker Technology, 2nd ed., The AVI Publ. Co., Inc.
(1968), pp. 11-12.
E        Matz, S.A., Cookie and Cracker Technology, The AVI Publ. Co., Chapter
18, pp. 238-253 (1968).
E        Matz, S.A., Cookie and Cracker Technology, The AVI Publ. Co., pp.
265-266 (1968).
E        Molina, et al., "Drum Drying For the Improved Production of Instant
Tortilla Flour," Journal of Food Science, vol. 42, No. 6 (1977), pp.

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1432-1434.

E Munch'ems Cheddar Crackers, list of ingredients obtained from Keebler Company web site (possible use in commerce 1991).

E Munch'ems Crackers, list of ingredients obtained from Keebler Company web site (possible use in commerce 1991).

E Munch'ems Ranch Crackers, list of ingredients obtained from Keebler Company web site (possible use in commerce 1996).

E Munch'ems Reduced Fat Sour Cream and Onion Crackers, list of ingredients obtained from Keebler Company web site (possible use in commerce 1996). <--

E Munch'ems Seasoned Original, sample of packaging, including list of ingredients from trademark U.S. Appl. No. 74/088,762, Jan. 1991 (first use in commerce), Keebler Company, Elmhurst, IL.

E Munch'ems Sour Cream&Onions Crackers, list of ingredients obtained from Keebler Company web site (possible use in commerce 1991). <--

E Munch'ems Southwest Salsa, sample of packaging including list of ingredients, Keebler Co. 1996 (copyright date).

...

Citing Patents (CGP, CGPB)

The citing patents as generated from the patent specification's cited patents can be displayed with CGP (Citing Patents) or CGPB (Citing Patents Brief). The format CGP.B will only display the citing patents pertaining to the basic patent publication in the family. Citations can be assigned by examiners, inventors or third parties or in opposition procedures. This is indicated in the CGP/CGPB/CGP.B displays by an 'E', 'I', 'T' or 'O'. Undefined sources are labelled as 'Undef'.

CDP Cited Patents

Citing Publication	By	Cat	Cited Patent	Date	Accession Number
DE 4446613 A1	E		DE 3626925 A	19880218	1988-038041
			PA: (DAIM-C) DAIMLER-BENZ AG		
			IN: PEITSMEIER K; SCHREMMER G		
	E		DE 4136840 A	19920514	1992-168306
			PA: (TOJY-C) TOKAI RIKI DENKI SEISAKUSHO KK		
			IN: KAWACHI T; YASUHARA N		
	E		DE 3739172 A1		
	E		DE 1834894 U		
	E		US 2295723 A		
	E		US 2295807 A		
	E		US 2552790 A		
	I		DE 3626925 C		1988-038041
			PA: (DAIM-C) DAIMLER-BENZ AG		
			IN: PEITSMEIER K; SCHREMMER G		
DE 4446613 B4	E		DE 3626925 A	19880218	1988-038041
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			IN: PEITSMEIER K; SCHREMMER G		
	E		DE 4136840 A	19920514	1992-168306
			PA: (TOJY-C) TOKAI RIKI DENKI SEISAKUSHO KK		
			IN: KAWACHI T; YASUHARA N		
	E		DE 3739172 C	19890209	1989-040178
			PA: (DAIM-C) DAIMLER-BENZ AG		
			IN: ALBRECHT W; PEITSMEIER K; SCHREMMER G		
	E		DE 1834894 U		
	E		US 2295723 A		
	E		US 2295807 A		
	E		US 2552790 A		

CGP Citing Patents

Cited Publication	By	Cat	Citing Patent	Date	Accession Number
DE 4446613 A1	E		DE 10041984 A1	20020418	2002-230053
			PA: (VALO-C) VALEO DEUT GMBH & CO SICHERHEITSSYSTEME;		
			(VALO-C) VALEO SICHERHEITSSYSTEME GMBH		
			IN: FRICK A; LIEB K; PIEH M; ROCHETEAU E; STARKEN H		
	E		DE 10061960 A1	20020718	2002-567434
			PA: (HUFH-C) HUF HUELSBECK&FUERST GMBH&CO KG		

IN: MUELLER U; WITTWER R
 E DE 10136221 A1 20030220 2003-223237
 PA: (TELE-C) CONTI TEMIC MICROELECTRONIC GMBH
 IN: REINWALD M
 E DE 10233511 A1 20040422 2004-124771
 PA: (HUFH-C) HUF HUELSBECK&FUERST GMBH&CO KG
 IN: HANSEN-RUETHER D; SCHINDLER M; WITTWER R
 E DE 19733249 A1 19990204 1999-122300
 PA: (MRQU-C) MARQUARDT GMBH
 IN: MUELLER K; SACHS E
 E DE 19908704 A1 20000831 2000-573259
 PA: (KOST-C) KOSTAL GMBH&CO KG LEOPOLD
 IN: KRAMER D; WELSCHHOLZ J
 E DE 19923797 A1 20001130 2001-009831
 PA: (VALO-C) VALEO DEUT GMBH & CO SICHERHEITSSYSTEME
 IN: LODERER K; THIELE C
 E DE 10041984 B4 20060223 2002-230053
 PA: (VALO-C) VALEO DEUT GMBH & CO SICHERHEITSSYSTEME;
 (VALO-C) VALEO SICHERHEITSSYSTEME GMBH
 IN: FRICK A; LIEB K; PIEH M; ROCHETEAU E; STARKEN H
 E DE 19908704 B4 20080619 2000-573259
 PA: (KOST-C) KOSTAL GMBH&CO KG LEOPOLD
 IN: KRAMER D; WELSCHHOLZ J
 E DE 19634627 C1 19971120 1997-537577
 PA: (SIEI-C) SIEMENS AG
 IN: BRANTSCH H; KRAICZYK J
 E DE 10061960 C2 20030403 2002-567434
 PA: (HUFH-C) HUF HUELSBECK&FUERST GMBH&CO KG
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 E DE 10136221 C2 20030717 2003-223237
 PA: (TELE-C) CONTI TEMIC MICROELECTRONIC GMBH
 IN: REINWALD M
 E DE 19916966 C2 20010920 2000-657702
 PA: (DAIM-C) DAIMLERCHRYSLER AG
 IN: GEBER M; MAZZINI A; OHLE J
 E DE 19945867 C2 20020117 2001-521636
 PA: (MRQU-C) MARQUARDT GMBH
 IN: GEBER M; GEBER, Michael; HUBRIG J; HUBRIG, Juergen;
 MUELLER K; MUELLER, Karl; POHLMANN A; POHLMANN,
 Andreas; SCHWARZ T; SCHWARZ, Thomas
 E DE 19916966 C5 20060921 2000-657702
 PA: (DAIM-C) DAIMLERCHRYSLER AG
 IN: GEBER M; MAZZINI A; OHLE J
 E X EP 893315 A2 19990127 1999-097667
 PA: (TOJY-C) TOKAI RIKA DENKI SEISAKUSHO KK; (TOYT-C)
 TOYOTA JIDOSHA KK
 IN: KITA S; NAKATOMI N; OYAMA Y; SAKAI K; SUZUKI N;
 YAMAMOTO K
 E AD EP 1249375 A2 20021016 2002-676166
 PA: (HUFH-C) HUF HUELSBECK&FUERST GMBH&CO KG
 IN: WITTWER R
 E AD EP 1281589 A2 20030205 2003-223237
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 IN: REINWALD M
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 TOYOTA JIDOSHA KK
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 PA: (HUFH-C) HUF HUELSBECK&FUERST GMBH&CO KG
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 PA: (MRQU-C) MARQUARDT GMBH
 IN: MUELLER K; SACHS E
 E GB 2355967 A 20010509 2001-346614
 PA: (MEEL-C) METHODE ELECTRONICS INC
 IN: KARASIK V; KHOURY J; RAMAMURTHY R
 E GB 2355967 B 20020410 2001-346614
 PA: (MEEL-C) METHODE ELECTRONICS INC
 IN: KARASIK V; KHOURY J; RAMAMURTHY R
 E US 6467319 B1 20021022 2001-346614
 PA: (MEEL-C) METHODE ELECTRONICS INC
 IN: KARASIK V; KHOURY J; RAMAMURTHY R
 E US 6548915 B1 20030415 2000-657702
 PA: (DAIM-C) DAIMLERCHRYSLER AG
 IN: GEBER M; MAZZINI A; OHLE J
 E US 6400254 B2 20020604 1999-097667
 PA: (TOJY-C) TOKAI RIKA DENKI SEISAKUSHO KK; (TOYT-C)
 TOYOTA JIDOSHA KK
 IN: KITA S; NAKATOMI N; OYAMA Y; SAKAI K; SUZUKI N;

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YAMAMOTO K
E      US 6914347 B2      20050705  2002-196150
PA: (DAIM-C) DAIMLERCHRYSLER AG
IN: GEBER M; GEBER, Michael; POHLMANN A; POHLMANN,
    Andreas
I      EP 1044857 A2      2000-657702
PA: (DAIM-C) DAIMLERCHRYSLER AG
IN: GEBER M; MAZZINI A; OHLE J
I      US 6439011 B1      2002-230053
PA: (VALO-C) VALEO DEUT GMBH & CO SICHERHEITSSYSTEME;
    (VALO-C) VALEO SICHERHEITSSYSTEME GMBH
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O      EP 999968 A2      20000517  1999-122300
PA: (MRQU-C) MARQUARDT GMBH
IN: MUELLER K; SACHS E

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Generally all data and their relationships in the citing patents can be searched for.

- Patent data of the cited family member
 - Patent Number (/PN.F)
 - Patent Kind Code (PK.F)
 - Patent Country (PC.F)
- Citing patent data
 - Patent Number (/PN.G, /PN.GX, /PN.GI, /PN.GO, /PN.GTH)
 - Patent Kind Code (/PK.G, /PK.GX, /PK.GI, /PN.GO, /PN.GTH)
 - Patent Country (/PC.G, /PC.GX, /PC.GI, /PC.GO, /PC.GTH)
 - Cited WPI accession number (/OS.G, /OS.GX, /OS.GI, /OS.GO, /OS.GTH)
 - Category (/CAT.G)
(EP, FR and WO examiners can attach codes to their citations indicating the relevance.)
- Cited patent assignees (/PA.G, /PA.GX, /PA.GI, /PA.GO, /PA.GTH)
- Cited patent assignee codes (/PACO.G, /PACOGX, /PACO.GI, /PACO.GO, /PACO.GTH)
- Cited inventors (/IN.G, /IN.GX, /IN.GI, /IN.GO, /IN.GTH)

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    5291971 US/PC.G
L28 158034 SIEI-C/PACO.G (P) US/PC.G

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=> d pi cgpb

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L28 ANSWER 1 OF 158034 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
PI  US 20100073932 A1 20100325 (201023)* EN 9[5]
    CN 101684934 A 20100331 (201025) ZH
    US 7699498 B2 20100420 (201027) EN

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Citings

Citing Publication	By	Accession Number
US 7794115 B2	E	2008-N73587

Update Dates

Entry Date (ED)

When a new document enters the database it receives a 'time stamp', in this case the entry date.

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L29 ANSWER 1 OF 14989 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
ED   20110113
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Update Date (UP)

Whenever a document enters the database or a document is amended, an update date is created.

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      (20110113/UP)

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L30 ANSWER 1 OF 248164 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
UP   20110113
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Update Date, Cited Patents (UPD)

Whenever a patent citation is added to a family member of the document, an update date cited patents is created.

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L31 ANSWER 1 OF 248163 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
UPD  20110113
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Update Date, Citing Patents (UPG)

Whenever a citing patent is added to a patent family member of the document, an update date citing patents is created.

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L32 ANSWER 1 OF 103344 DPCI COPYRIGHT 2011 THOMSON REUTERS on STN
UPG 20110113
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APPENDIX

Appendix I – Thomson Scientific Standard Abbreviations

Thomson Scientific has abbreviated many commonly occurring words in titles and abstracts (Basic Index) over time. Since 1998 it has been policy not to abbreviate where possible and thus, for comprehensive results, the abbreviation should be searched together with the corresponding full term.

Abbreviation	Abbreviation	Abbreviation	Abbreviation
Term	Abbreviation	Term	Abbreviation
addition(s)	addn./addns.	melting point	m.pt.
administration	admin.	minimum	min.
amount(s)	amt./amts.	mixture(s)	mixt./mixts.
apparatus	appts.	molecule(s)	mol./mols.
aqueous	aq.	obtained	obtd.
atmosphere	atmos.	optionally	opt.
boiling point	b.pt.	oxidation	oxidn.
coefficient(s)	coefft./coeffts.	particularly	partic.
composition(s)	compsn./compsns.	parts by weight	pts. wt.
compound(s)	cpd./cpds.	parts per million	ppm.
concentrated	conc.	precipitate(s)	ppte./pptes.
concentration(s)	concn./concns.	precipitated	pptd.
condensation	condensn.	precipitation	pptn.
containing	contg.	preferably	pref.
continuation	cont.	preparation	prepn.
continuation in part	c.i.p.	prepared	prepd.
corresponding	corresp.	primary	prim.
derivative(s)	deriv./derivs.	product(s)	prod./prods.

determination	determn.	production	prodn.
diameter	dia.	purification	purificn.
dilute	dil.	quaternary	quat.
distillation	distn.	reduction	redn.
divided/division	div.	saturated	satd.
divided out of	div. ex	secondary	sec.
equivalent(s)	equiv./equivs.	separated	sepd.
especially	esp.	separating	sepg.
evaporation	evapn.	separation	sepn.
extraction	extn.	solution(s)	soln./solns.
for example	e.g.	substituent(s)	substit./substit.
gram molecule(s)	mole./moles.	substituted	substd.
group(s)	gp./gps.	temperature(s)	temp./temps.
insoluble	insol.	tertiary	tert.
liquid	liq.	that is	i.e.
manufacture	mfr.	volume	vol.
manufactured	mfd.	weight	wt.
manufacturing	mfg.	with respect to	w.r.t.
maximum	max.		

Other standard abbreviations for units of measurement, electrical and engineering elements, chemical groups, and chemical formulae are also used in abstracts.

Appendix II – WIPO Country Codes

Assignment of standard codes is governed by ISO Standard and WIPO committee acceptance.

A	
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania 9
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AP	African Regional Ind. Property Organization (ARIPO) ¹
AR	Argentina 6
AT	Austria 6,8
AU	Australia 6
AW	Aruba
AZ	Azerbaijan
B	
BA	Bosnia and Herzegovina 9
BB	Barbados
BD	Bangladesh
BE	Belgium 6, 8
BF	Burkina Faso 10
BG	Bulgaria 8
BH	Bahrain
BI	Burundi

BJ	Benin 10
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil 6
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana 11
BX	Benelux Trademark Office (BBM)/Benelux Designs Office (BBDM) 2
BY	Belarus
BZ	Belize
C	
CA	Canada 6
CD	Democratic Republic of the Congo
CF	Central African Republic 10
CG	Congo 10
CH	Switzerland 6, 8
CI	Cote d'Ivoire 10
CK	Cook Islands
CL	Chile
CM	Cameroon 10
CN	China 6
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CY	Cyprus 8
CZ	Czech Republic 6, 8
D	

DE	Germany 4, 6, 8
DJ	Djibouti
DK	Denmark 6, 8
DM	Dominica
DO	Dominican Republic
DZ	Algeria
E	
EA	Eurasian Patent Organisation 1
EC	Ecuador
EE	Estonia 8
EG	Egypt
EH	Western Sahara 3
EM	Office for Harmonisation in the Internal Market (Trademark and Designs) (OHIM)
EP	European Patent Office 1, 6
ER	Eritrea
ES	Spain 6, 8
ET	Ethiopia
F	
FI	Finland 6, 8
FJ	Fiji
FK	Falkland Islands
FO	Faroe Islands
FR	France 6, 8
G	
GA	Gabon 10
GB	United Kingdom 6, 8
GC	Patent Office for the Cooperation Council for Arab States of the Gulf (GCC)
GD	Grenada

GE	Georgia
GH	Ghana 11
GI	Gibraltar
GL	Greenland
GM	Gambia 11
GN	Guinea 10
GQ	Equatorial Guinea 10
GR	Greece 6
GS	South Georgia & South Sandwich Islands
GT	Guatemala
GW	Guinea Bissau 10
GY	Guyana
H	
HK	Hong Kong Special Administrative Region of the People's Republic of China
HN	Honduras
HR	Croatia 9
HT	Haiti
HU	Hungary 6, 8
I	
IB	International Bureau of the World Intellectual Property Office (WIPO) 5
ID	Indonesia
IE	Ireland 6, 8
IL	Israel 6
IN	India 6
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland 8
IT	Italy 6, 8

J	
JM	Jamaica
JO	Jordan
JP	Japan 6
K	
KE	Kenya 11
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Democratic People's Republic of Korea
KR	Republic of Korea 6
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
L	
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein 8
LK	Sri Lanka
LR	Liberia
LS	Lesotho 11
LT	Lithuania 8
LU	Luxembourg 6, 8
LV	Latvia 8
LY	Libyan Arab Jamahiriya
M	
MA	Morocco

MC	Monaco 8
MD	Republic of Moldova
MG	Madagascar
MK	The former Yugoslav Republic of Macedonia 9
ML	Mali 10
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MR	Mauritania 10
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi 11
MX	Mexico 6
MY	Malaysia
MZ	Mozambique 11
N	
NA	Namibia 11
NE	Niger 10
NG	Nigeria
NI	Nicaragua
NL	Netherlands 6, 8
NO	Norway 6
NP	Nepal
NR	Nauru
NZ	New Zealand 6
O	
OA	African Intellectual Property Organization (OAPI) 1

OM	Oman
P	
PA	Panama
PE	Peru
PG	Papua New Guinea
PH	Philippines 6
PK	Pakistan
PL	Poland 8
PT	Portugal 6, 8
PW	Palau
PY	Paraguay
Q	
QA	Qatar
R	
RO	Romania 6, 8
RU	Russian Federation 6
RW	Rwanda
S	
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan 11
SE	Sweden 6, 8
SG	Singapore 6
SH	St. Helena
SI	Slovenia 8
SK	Slovakia 6, 8
SL	Sierra Leone 11
SM	San Marino
SN	Senegal 10

SO	Somalia 11
SR	Suriname
ST	Sao Tome and Principe
SU	USSR 7
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland 11
T	
TC	Turks and Caicos Islands
TD	Chad 10
TG	Togo 10
TH	Thailand
TJ	Tajikistan
TL	Timor-Leste
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TR	Turkey 8
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China 6
TZ	United Republic of Tanzania 11
U	
UA	Ukraine
UG	Uganda 11
US	United States of America 6
UY	Uruguay
UZ	Uzbekistan
V	
VA	Holy See

VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VN	Viet Nam
VU	Vanuatu
W	
WO	World Intellectual Property Organization (WIPO) 5, 6
WS	Samoa
Y	
YE	Yemen
YU	Yugoslavia / Serbia & Montenegro
Z	
ZA	South Africa 6
ZM	Zambia 11
ZW	Zimbabwe 11

Additional Codes used by Thomson Scientific:

RD	Research Disclosure© Kenneth Mason Publications Limited [2006] www.researchdisclosure.com
TP	Technology Disclosure 12

Notes:

- 1 Intergovernmental organisations (regional patent offices) acting for certain Contracting States under the PCT (Patent Cooperation Treaty). In the case of the European Patent Office, it also acts as International Searching Authority and International Preliminary Examining Authority under the PCT.
- 2 The Benelux Trademark and Designs Offices have replaced the national Offices of Belgium, Luxembourg, and the Netherlands with regard to actions relating to marks and industrial designs.
- 3 Provisional name
- 4 In the electronic database of the International Register of Marks, the International Bureau of WIPO uses the following additional codes, not part of the active codes: "DD" to designate Germany without the territory that, prior to 03/10/1990, constituted the Federal Republic of Germany; "DT" to designate Germany without the territory that, prior to 03/10/1990, constituted the German Democratic Republic
- 5 The code "WO" is used in relation to the international publication under the Patent Cooperation Treaty (PCT) of international applications filed with any PCT receiving office. The code "IB" is used in relation to the receipt of international applications under the PCT filed with the International Bureau of WIPO in its capacity as a PCT receiving office.
- 6 Countries covered in Derwent World Patents Index
- 7 Countries covered in Derwent World Patents Index that no longer exist
- 8 Member countries of the EPO (European Patent Office)
- 9 Extension countries of the EPO (will become members)

- 10 Member countries of OAPI (African Intellectual Property Organisation).
- 11 Member countries of ARIPO (African Regional Industrial Property Organisation).
- 12 TP is used for Technology Disclosure in Derwent World Patents Index

Appendix III – Patent Number Formats and Kind Codes

For patent numbers containing a year element as part of the serial, this is generally a 2-digit format for 19YY (YY) and a 4-digit format for 2000 onwards (20YY). Examples of these have been included in the table below.

Abbreviations used in the table:

- NTIS - National Technical Information Service
- OPI - Open for Public Inspection
- PCT - Patent Cooperation Treaty
- CC - Country Code

Country Code	Country	Formats		Notes
		Derwent	STN	
AE	U.A.E	2003AE-000000265	AE 2003-265	
AL	Albania	1995AL-000000041	AL 1995-41	
AM	Armenia	2003AM-000000098	AM 2003-98	
AP	ARIPO	1998AP-000000238	AP 1998-238	
AR	Argentina	1990AR-000318198	AR 1990-318198	
AT	Austria	1991AT-000002405	AT 1991-2405	
		2000AT-000008014	AT 2000-8014	
AU	Australia	1991AU-000004146	AU 1991-4146	
AZ	Azerbaijan	2003AZ-000000179	AZ 2003-179	
BA	Bosnia & Herzegovina	2003BA-000001463	BA 2003-0001463	
BD	Bangladesh	2002BD-000000167	BD 2002-167	
BE	Belgium	1992BE-000701101	BE 1992-701101	<i>PCI priority numbers always use the full Belgian priority (not the local town number). This number remains in the record as an associated priority, when available.</i>
BH	Bahrain	1999BH-000000126	BH 1999-126	
BI	Burundi	2000BI-000000063	BI 2000-63	
BO	Bolivia	1984BO-000000166	BO 1984-166	
BR	Brazil	1992BR-000000108	BR 1992-108	
		1991BR-000000711U	BR 1991-711U	
BS	Bahamas	1999BS-000001161	BS 1999-1161	
BW	Botswana	1999BW-000000021	BW 1999-21	

Country Code	Country	Formats		Notes
		Derwent	STN	
BX	Benelux	1998BX=000074656	BX 1998-74656	
BY	Belarus	2002BY-000000603	BY 2002-603	
CA	Canada	1990CA-000049485	CA 1990-49485	
		1991CA-002034163	CA 1991-2034163	
CH	Switzerland	1991CH-000003636	CH 1991-3636	
CG	Congo	1988CG-000059423	CG 1988-59423	
CL	Chile	2002CL-000002772	CL 2002-2772	
CM	Cameroon	1992CM-000060240	CM 1992-60240	
CN	China	1991CN-000100015	CN 1991-100015	
		1991CN-000225158U	CN 1991-225158U	
		2000CN-000103651	CN 2000-103651	
		2004CN-000078801	CN 2004-78801	
		2007CN-010000639	CN 2007-10000639	<i>The '10' indicates a patent application</i>
		2006CN-080000435	CN 2006-80000435	<i>The '80' indicates a PCT transfer application</i>
		2006CN-020007114U	CN 2006-20007114U	<i>The '20' indicates an Utility model application</i>
CO	Colombia	2003CO-000012620	CO 2003-12620	
CR	Costa Rica	2002CR-000000172	CR 2002-172	
CS	Czechoslovakia	1991CS-000002474	CS 1991-2474	
CU	Cuba	2003CU-000000224	CU 2003-224	
CY	Cyprus	2003CY-000000066	CY 2003-66	
CZ	Czech Republic	1993CZ-000001000	CZ 1993-1000	
DD	German Democratic Republic	1991DD-000336107	DD 1991-336107	
DE	Germany	1970DE-B00807017	DE 1970-B807017	
		1992DE-004200008	DE 1992-4200008	
		1992DE-000000524U	DE 1992-524U	
		1997DE-100033093	DE 1997-19733093	
		2001DE-200000001	DE 2001-20100001	
		2004DE-102004012345	DE 2004-102004012345	<i>The leading "10" indicates that this is a patent application</i>
		2004DE-202004013010	DE 2004-202004013010	<i>The leading "20" indicates that this is a utility model application</i>
2004DE-212004000002	DE 2004-212004000002	<i>The leading "21" indicates that this is a utility model application via the PCT route</i>		
DK	Denmark	1991DK-000000105	DK 1991-105	
DO	Dominican Rep.	2000DO-000005611	DO 2000-5611	
DZ	Algeria	2003DZ-000000028	DZ 2003-28	
EA	Eurasian PO	2003EA-000000342	EA 2003-342	
EC	Ecuador	2003EC-000004705	EC 2003-4705	
EE	Estonia	2000EE-000000410	EE 2000-410	
EG	Egypt	2003EG-000090947	EG 2003-90947	
EP	European Patent Office	1992EP-000904679	EP 1992-904679	
		2000EP-000102309	EP 2000-102309	

Country Code	Country	Formats		Notes
		Derwent	STN	
ES	Spain	1992ES-000000144	ES 1992-144	
		1991ES-000001791U	ES 1991-1791U	
ET	Ethiopia	1989ET-000000597	ET 1989-597	
FI	Finland	1992FI-000002300	FI 1992-2300	
FR	France	1992FR-000009166	FR 1992-9166	
		2000FR-000013835	FR 2000-13835	
GB	Great Britain	1992GB-000000027	GB 1992-27	<i>Where a filing date is quoted associated with a number from an earlier year, the earlier year is entered, not the filing date.</i>
GE	Georgia	2002GE-000004925	GE 2002-4925	
GH	Ghana	1998GH-000000002	GH 1998-2	
GR	Greece	2003GR-000100404	GR 2003-100404	
GT	Guatemala	2001GT-000000030	GT 2001-30	
HK	Hong Kong	2003HK-000104544	HK 2003-104544	
HR	Croatia	2003CR-000000816	HR 2003-816	
HT	Haiti	1985HT-000000001	HT 1985-1	
HU	Hungary	1991HU-000000306	HU 1991-306	<i>Numbers assigned prior to 1980 comprise two letters from the patentee's name and up to five digits, entered as such, provided initial letters are known. Current serial numbers comprise only digits.</i>
		1979HU-FE0001046	HU 1979-FE1046	
ID	Indonesia	2003ID-000000042	ID 2003-42	
IE	Ireland	1979IE-000000339	IE 1979-339	
IL	Israel	1991IL-000096973	IL 1991-96973	
IN	India	2002IN-MUM000754	IN 2002-MU754	
		2003IN-DEL001086	IN 2003-DE1086	
		2003IN-KOL000266	IN 2003-KO266	
		2005IN-CHE000042	IN 2005-CH42	
		2002IN-DELNP001046	IN 2002-DN1046	
		2003IN-KOLNP000765	IN 2003-KN765	
		2002IN-MUMNP001571	IN 2002-MN1571	
		2004IN-CHENP000010	IN 2004-CN10	
IQ	Iraq	1988IQ-000000255	IQ 1988-255	
IR	Iran	2002IR-000038104	IR 2002-38104	
IS	Iceland	2003IS-000006974	IS 2003-6974	
IT	Italy	1990IT-000093369	IT 1990-93369	<i>From 1st January 1991 a two-letter city code is included in the application number.</i>
		1991IT-AN0000011	IT 1991-AN11	
JM	Jamaica	2000JM-000003985	JM 2000-3985	
JO	Jordan	1996JO-000004492	JO 1996-4492	
JP	Japan	1992JP-000163744	JP 1992-163744	
		2001JP-000000337	JP 2001-337	

Country Code	Country	Formats		Notes
		Derwent	STN	
		1993JP-000033610U	JP 1993-33610U	
KE	Kenya	2003KE-000000396	KE 2003-396	
KG	Kyrgystan	1996KG-000000016	KG 1996-16	
KP	North Korea	2003KP-000000300	KP 2003-300	
KR	South Korea	1992KR-000001382	KR 1992-1382	
KW	Kuwait	1984KW-000000135	KW 1984-135	
KZ	Kazakhstan	2003KZ-000001348	KZ 2003-1348	
LB	Lebanon	2003LB-000006740	LB 2003-6740	
LI	Liechtenstein	1996LI-000001091	LI 1996-1091	
LK	Sri Lanka	2003LK-000013138	LK 2003-13138	
LS	Lesotho	1995LS-000000010	LS 1995-10	
LT	Lithuania	2003LT-000000081	LT 2003-81	
LU	Luxemburg	1997LU-000090008	LU 1997-90008	
MX	Mexico	1995MX-000000286	MX 1995-286	
LV	Latvia	2004LV-000000046	LV 2004-46	
LY	Libya	1987LY-000000088	LY 1997-88	
MA	Morocco	2003MA-000000649	MA 2003-649	
MC	Monaco	2003MC-000002494	MC 2003-2494	
MD	Moldova	2001MD-000001669	MD 2001-1669	
MG	Madagascar	2003MG-000000011	MG 2003-11	
MK	FYR Macedonia	2003MK-000000053	MK 2003-53	
MT	Malta	2002MT-000001817	MT 2002-1817	
MU	Mauritius	2002MU-001157730	MU 2002-1157730	
MW	Malawi	1991MW-000000063	MW 1991-63	
MX	Mexico	2003MX-JL0000008	MX 2003-JL8	
MY	Malaysia	2003MY-000003644	MY 2003-3644	
NE	Niger	1984NE-000006865	NE 1984-6865	
NG	Nigeria	2003NG-000000086	NG 2003-86	
NI	Nicaragua	1999NI-000000101	NI 1999-101	
NL	Netherlands	1992NL-000000447	NL 1992-447	
		1973NL-A00000166	NL 1973-A166	<i>Applications from the Antilles have the application number preceded by the letter A.</i>
NO	Norway	1992NO-000000059	NO 1992-59	
NZ	New Zealand	1996NZ-000280346	NZ 1996-280346	
OA	OAPI	2002OA-000000098	OA 2002-98	
PA	Panama	2001PA-000001202	PA 2001-1202	
PE	Peru	2002PE-000000466	PE 2002-466	
PH	Philippines	1996PH-000014494	PH 1996-14494	
PK	Pakistan	2003PK-000001113	PK 2003-1113	
PL	Poland	2003PL-000363015	PL 2003-363015	

Country Code	Country	Formats		Notes
		Derwent	STN	
PT	Portugal	1991PT-000096995	PT 1991-96995	
PY	Paraguay	2003PY-000008160	PY 2003-8160	
RD	Research Disclosures	1992RD-000334012	RD 1992-334012	© Kenneth Mason Publications Limited [2006] www.researchdisclosure.com
RO	Romania	1992RO-000001434	RO 1992-1434	
RU	Russia	1995RU-000113104	RU 1995-113104	
		2000RU-000119226	RU 2000-119226	
SD	Sudan	2003SD-000001328	SD 2003-1328	
SE	Sweden	1992SE-000000031	SE 1992-31	
SG	Singapore	1995SG-000000013	SG 1995-13	
SI	Slovenia	2003SI-000000254	SI 2003-254	
SK	Slovakia	1997SK-000000010	SK 1997-10	
SL	Sierra Leone	1997SK-000000010	SK 1997-10	
SM	San Marino	2003SM-000000001	SM 2003-1	
SN	Senegal	2001SN-000000002	SN 2001-2	
SR	Suriname	2001SR-000000004	SR 2001-4	
SU	Soviet Union	1989SU-004747284	SU 1989-4747284	
SV	El Salvador	2001SV-000000624	SV 2001-624	
SY	Syria	2000SY-000001090	SY 2000-1090	
TH	Thailand	2003TH-000000937	TH 2003-937	
TP	Technology Disclosure	1992TP-000029201	TP 1992-29201	
TR	Turkey	2003TR-000001770	TR 2003-1770	
TT	Trinidad/Tobago	2002TT-000000032	TT 2002-32	
TR	Turkey	2003TR-000001770	TR 2003-1770	
TW	Taiwan	2003TW-000118606	TW 2003-118606	
		2009TW-000205340U	TW 2009-205340U	
UA	Ukraine	2003UA-000108892	UA 2003-108892	
US	United States of America	1998US-000080114P	US 1998-80114P	US provisional application number
		1992US-000493916	US 1992-493916	
UY	Uruguay	2003UY-000027788	UY 2003-27788	
UZ	Uzbekistan	2002UZ-000000686	UZ 2002-686	
VE	Venezuela	2003VE-000000401	VE 2003-401	
VN	Viet Nam	2003VN-000000858	VN 2003-858	
WO	World Intellectual Property Organisation	1992WO-FI0000009	WO 1992-FI9	
		1992WO-EP0000011	WO 1992-EP11	
		1992WO-IT0000021	WO 1992-IT21	
		2001WO-US0000498	WO 2001-US498	
ZA	South Africa	1990ZA-000008527	ZA 1990-8527	

Country Code	Country	Formats		Notes
		Derwent	STN	
		1990ZA-A00007769	ZA 1990-A7769	<i>Occasionally two inventions are given the same application number. These are distinguished from each other by adding a preceding letter A to one of them.</i>
ZM	Zambia	2001ZM-000000005	ZM 2001-5	
ZW	Zimbabwe	2003ZW-000002725	ZW 2003-2725	

Appendix IV – Application and Priority Application Number Formats

Country Code	Country	Formats		Notes
		Derwent	STN	
AE	U.A.E	2003AE-000000265	AE 2003-265	
AL	Albania	1995AL-000000041	AL 1995-41	
AM	Armenia	2003AM-000000098	AM 2003-98	
AP	ARIPO	1998AP-000000238	AP 1998-238	
AR	Argentina	1990AR-000318198	AR 1990-318198	
AT	Austria	1991AT-000002405	AT 1991-2405	
		2000AT-000008014	AT 2000-8014	
AU	Australia	1991AU-000004146	AU 1991-4146	
AZ	Azerbaijan	2003AZ-000000179	AZ 2003-179	
BA	Bosnia & Herzegovina	2003BA-000001463	BA 2003-0001463	
BD	Bangladesh	2002BD-000000167	BD 2002-167	
BE	Belgium	1992BE-000701101	BE 1992-701101	<i>PCI priority numbers always use the full Belgian priority (not the local town number). This number remains in the record as an associated priority, when available.</i>
BH	Bahrain	1999BH-000000126	BH 1999-126	
BI	Burundi	2000BI-000000063	BI 2000-63	
BO	Bolivia	1984BO-000000166	BO 1984-166	
		1991BR-000000711U	BR 1991-711U	
BR	Brazil	1992BR-000000108	BR 1992-108	
BS	Bahamas	1999BS-000001161	BS 1999-1161	
BW	Botswana	1999BW-000000021	BW 1999-21	
BX	Benelux	1998BX=000074656	BX 1998-74656	
BY	Belarus	2002BY-000000603	BY 2002-603	
CA	Canada	1990CA-000049485	CA 1990-49485	
		1991CA-002034163	CA 1991-2034163	
CH	Switzerland	1991CH-000003636	CH 1991-3636	
CG	Congo	1988CG-000059423	CG 1988-59423	
CL	Chile	2002CL-000002772	CL 2002-2772	
CM	Cameroon	1992CM-000060240	CM 1992-60240	
CN	China	1991CN-000100015	CN 1991-100015	
		1991CN-000225158U	CN 1991-225158U	
		2000CN-000103651	CN 2000-103651	
		2004CN-000078801	CN 2004-78801	
		2007CN-010000639	CN 2007-10000639	<i>The '10' indicates a patent application</i>
		2006CN-080000435	CN 2006-80000435	<i>The '80' indicates a PCT transfer application</i>
CO	Colombia	2006CN-020007114U	CN 2006-20007114U	<i>The '20' indicates an Utility model application</i>
		2003CO-000012620	CO 2003-12620	

Country Code	Country	Formats		Notes
		Derwent	STN	
CR	Costa Rica	2002CR-000000172	CR 2002-172	
CS	Czechoslovakia	1991CS-000002474	CS 1991-2474	
CU	Cuba	2003CU-000000224	CU 2003-224	
CY	Cyprus	2003CY-000000066	CY 2003-66	
CZ	Czech Republic	1993CZ-000001000	CZ 1993-1000	
DD	German Democratic Republic	1991DD-000336107	DD 1991-336107	
DE	Germany	1970DE-B00807017	DE 1970-B807017	
		1992DE-004200008	DE 1992-4200008	
		1992DE-000000524U	DE 1992-524U	
		1997DE-100033093	DE 1997-19733093	
		2001DE-200000001	DE 2001-20100001	
		2004DE-102004012345	DE 2004-102004012345	<i>The leading "10" indicates that this is a patent application</i>
		2004DE-202004013010	DE 2004-202004013010	<i>The leading "20" indicates that this is a utility model application</i>
		2004DE-212004000002	DE 2004-212004000002	<i>The leading "21" indicates that this is a utility model application via the PCT route</i>
DK	Denmark	1991DK-000000105	DK 1991-105	
DO	Dominican Rep.	2000DO-000005611	DO 2000-5611	
DZ	Algeria	2003DZ-000000028	DZ 2003-28	
EA	Eurasian PO	2003EA-000000342	EA 2003-342	
EC	Ecuador	2003EC-000004705	EC 2003-4705	
EE	Estonia	2000EE-000000410	EE 2000-410	
EG	Egypt	2003EG-000090947	EG 2003-90947	
EP	European Patent Office	1992EP-000904679	EP 1992-904679	
		2000EP-000102309	EP 2000-102309	
ES	Spain	1992ES-000000144	ES 1992-144	
		1991ES-000001791U	ES 1991-1791U	
ET	Ethiopia	1989ET-000000597	ET 1989-597	
FI	Finland	1992FI-000002300	FI 1992-2300	
FR	France	1992FR-000009166	FR 1992-9166	
		2000FR-000013835	FR 2000-13835	
GB	Great Britain	1992GB-000000027	GB 1992-27	<i>Where a filing date is quoted associated with a number from an earlier year, the earlier year is entered, not the filing date.</i>
GE	Georgia	2002GE-000004925	GE 2002-4925	
GH	Ghana	1998GH-000000002	GH 1998-2	
GR	Greece	2003GR-000100404	GR 2003-100404	
GT	Guatemala	2001GT-000000030	GT 2001-30	
HK	Hong Kong	2003HK-000104544	HK 2003-104544	
HR	Croatia	2003CR-000000816	HR 2003-816	
HT	Haiti	1985HT-000000001	HT 1985-1	

Country Code	Country	Formats		Notes
		Derwent	STN	
HU	Hungary	1991HU-000000306	HU 1991-306	<i>Numbers assigned prior to 1980 comprise two letters from the patentee's name and up to five digits, entered as such, provided initial letters are known. Current serial numbers comprise only digits.</i>
		1979HU-FE0001046	HU 1979-FE1046	
ID	Indonesia	2003ID-000000042	ID 2003-42	
IE	Ireland	1979IE-000000339	IE 1979-339	
IL	Israel	1991IL-000096973	IL 1991-96973	
IN	India	2002IN-MUM000754	IN 2002-MU754	
		2003IN-DEL001086	IN 2003-DE1086	
		2003IN-KOL000266	IN 2003-KO266	
		2005IN-CHE000042	IN 2005-CH42	
		2002IN-DELNP001046	IN 2002-DN1046	
		2003IN-KOLNP000765	IN 2003-KN765	
		2002IN-MUMNP001571	IN 2002-MN1571	
		2004IN-CHENP000010	IN 2004-CN10	
IQ	Iraq	1988IQ-000000255	IQ 1988-255	
IR	Iran	2002IR-000038104	IR 2002-38104	
IS	Iceland	2003IS-000006974	IS 2003-6974	
IT	Italy	1990IT-000093369	IT 1990-93369	<i>From 1st January 1991 a two-letter city code is included in the application number.</i>
		1991IT-AN0000011	IT 1991-AN11	
JM	Jamaica	2000JM-000003985	JM 2000-3985	
JO	Jordan	1996JO-000004492	JO 1996-4492	
JP	Japan	1992JP-000163744	JP 1992-163744	
		2001JP-000000337	JP 2001-337	
		1993JP-000033610U	JP 1993-33610U	
KE	Kenya	2003KE-000000396	KE 2003-396	
KG	Kyrgystan	1996KG-000000016	KG 1996-16	
KP	North Korea	2003KP-000000300	KP 2003-300	
KR	South Korea	1992KR-000001382	KR 1992-1382	
KW	Kuwait	1984KW-000000135	KW 1984-135	
KZ	Kazakhstan	2003KZ-000001348	KZ 2003-1348	
LB	Lebanon	2003LB-000006740	LB 2003-6740	
LI	Liechtenstein	1996LI-000001091	LI 1996-1091	
LK	Sri Lanka	2003LK-000013138	LK 2003-13138	
LS	Lesotho	1995LS-000000010	LS 1995-10	
LT	Lithuania	2003LT-000000081	LT 2003-81	
LU	Luxemburg	1997LU-000090008	LU 1997-90008	
MX	Mexico	1995MX-000000286	MX 1995-286	
LV	Latvia	2004LV-000000046	LV 2004-46	

Country Code	Country	Formats		Notes
		Derwent	STN	
LY	Libya	1987LY-000000088	LY 1997-88	
MA	Morocco	2003MA-000000649	MA 2003-649	
MC	Monaco	2003MC-000002494	MC 2003-2494	
MD	Moldova	2001MD-000001669	MD 2001-1669	
MG	Madagascar	2003MG-000000011	MG 2003-11	
MK	FYR Macedonia	2003MK-000000053	MK 2003-53	
MT	Malta	2002MT-000001817	MT 2002-1817	
MU	Mauritius	2002MU-001157730	MU 2002-1157730	
MW	Malawi	1991MW-000000063	MW 1991-63	
MX	Mexico	2003MX-JL0000008	MX 2003-JL8	
MY	Malaysia	2003MY-000003644	MY 2003-3644	
NE	Niger	1984NE-000006865	NE 1984-6865	
NG	Nigeria	2003NG-000000086	NG 2003-86	
NI	Nicaragua	1999NI-000000101	NI 1999-101	
NL	Netherlands	1992NL-000000447	NL 1992-447	
		1973NL-A00000166	NL 1973-A166	<i>Applications from the Antilles have the application number preceded by the letter A.</i>
NO	Norway	1992NO-000000059	NO 1992-59	
NZ	New Zealand	1996NZ-000280346	NZ 1996-280346	
OA	OAPI	2002OA-000000098	OA 2002-98	
PA	Panama	2001PA-000001202	PA 2001-1202	
PE	Peru	2002PE-000000466	PE 2002-466	
PH	Philippines	1996PH-000014494	PH 1996-14494	
PK	Pakistan	2003PK-000001113	PK 2003-1113	
PL	Poland	2003PL-000363015	PL 2003-363015	
PT	Portugal	1991PT-000096995	PT 1991-96995	
PY	Paraguay	2003PY-000008160	PY 2003-8160	
RD	Research Disclosures	1992RD-000334012	RD 1992-334012	© Kenneth Mason Publications Limited [2006] www.researchdisclosure.com
RO	Romania	1992RO-000001434	RO 1992-1434	
RU	Russia	1995RU-000113104	RU 1995-113104	
		2000RU-000119226	RU 2000-119226	
SD	Sudan	2003SD-000001328	SD 2003-1328	
SE	Sweden	1992SE-000000031	SE 1992-31	
SG	Singapore	1995SG-000000013	SG 1995-13	
SI	Slovenia	2003SI-000000254	SI 2003-254	
SK	Slovakia	1997SK-000000010	SK 1997-10	
SL	Sierra Leone	1997SK-000000010	SK 1997-10	
SM	San Marino	2003SM-000000001	SM 2003-1	
SN	Senegal	2001SN-000000002	SN 2001-2	

Country Code	Country	Formats		Notes
		Derwent	STN	
SR	Suriname	2001SR-000000004	SR 2001-4	
SU	Soviet Union	1989SU-004747284	SU 1989-4747284	
SV	El Salvador	2001SV-000000624	SV 2001-624	
SY	Syria	2000SY-000001090	SY 2000-1090	
TH	Thailand	2003TH-000000937	TH 2003-937	
TP	Technology Disclosure	1992TP-000029201	TP 1992-29201	
TR	Turkey	2003TR-000001770	TR 2003-1770	
TT	Trinidad/Tobago	2002TT-000000032	TT 2002-32	
TR	Turkey	2003TR-000001770	TR 2003-1770	
TW	Taiwan	2003TW-000118606 2009TW-000205340U	TW 2003-118606 TW 2009-205340U	
UA	Ukraine	2003UA-000108892	UA 2003-108892	
US	United States of America	1998US-000080114P 1992US-000493916	US 1998-80114P US 1992-493916	<i>US provisional application number</i>
UY	Uruguay	2003UY-000027788	UY 2003-27788	
UZ	Uzbekistan	2002UZ-000000686	UZ 2002-686	
VE	Venezuela	2003VE-000000401	VE 2003-401	
VN	Viet Nam	2003VN-000000858	VN 2003-858	
WO	World Intellectual Property Organisation	1992WO-FI0000009 1992WO-EP0000011 1992WO-IT0000021 2001WO-US0000498	WO 1992-FI9 WO 1992-EP11 WO 1992-IT21 WO 2001-US498	
ZA	South Africa	1990ZA-000008527 1990ZA-A00007769	ZA 1990-8527 ZA 1990-A7769	<i>Occasionally two inventions are given the same application number. These are distinguished from each other by adding a preceding letter A to one of them.</i>
ZM	Zambia	2001ZM-000000005	ZM 2001-5	
ZW	Zimbabwe	2003ZW-000002725	ZW 2003-2725	

Appendix V – Japanese Coverage

Since the end of 1995 (update 199548) Derwent World Patents Index has included all Japanese Kokai applications (JP-A documents). Until mid 1995 (update 199528), coverage was restricted to chemical and electrical technologies based on the International Patent Classification (IPC). In the period from update 199528 to update 199548, coverage was phased in online until complete coverage was attained as indicated below:

Subject Area	International Patent Classification	Update
Automotive	B60, F01, F02N, F02P, F16, F17, B65-B68	199528
Computing	G06, G11, B02-B09	199532
Machine Tools	B21-B28, B30-B32, B41-B44, F21-F41	199536
Construction	E01-E21, F02-F15, B61-B64	199540
Instrumentation	G01-G12	199544
Agriculture	A01-A47, A61-A63	199548

The coverage of Japanese patents before update 199528 is shown in the following table by IPC. IPCs other than those shown have a coverage of less than 10%. Those indicated with an asterisk (*) may have abstracts if they have additional IPCs in other groups.

Coverage before update 199528

IPC	Section	IPC Covered	% Covered	Abstracts
A	Human Necessities A01, A21-A24, A41-A47, A61-A63	A01N, A21, A22, A23, A61K A61L, A61M, A62D A01H, A01J, A01K, A24D, A41B, A41C, A41D, A44B, A47J, A47K, A47L, A61B, A61C, A61F A01G, A01M, A24B, A41F, A41G, A45D, A61J, A62C	100 50-99 24-49 10-24	Yes Yes Yes Yes

B	Performing Operations Transporting B01-B09, B21-B32, B41-B44, B60-B68	B01,B29 B21B, B21H, B21K, B22, B23K B27K, B60C B03, B04, B05, B07B, B32, B65H B21C, B21J, B41D, B41M, B41N	100 50-99 50-99 25-49 10-24	Yes No* Yes Yes Yes
C	Chemistry C01-C14, C21-C23, C25-C30	C	100	Yes
D	Textiles and Paper D01-D07, D21	D	100	Yes
E	Fixed Constructions E01-E06, E21	E21B	50-99	Yes
F	Mechanical, Lighting, Heating, Explosives F01-F04, F15-F17 F21-F28, F41-F42	F17C, F42B F25, F27 F22B, F26, F28	50-99 25-49 10-24	Yes Yes Yes
G	Physics G01-G12, G21	G21, G01N31-33 G03C, G03G	100 50-99	Yes Yes
H	Electrical	Just Kokai since 1982	100	No*

Appendix VI – Examiner Citation Categories

- X Particularly relevant if taken alone (EP); document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step (WO).
- Y Particularly relevant if combined with another document of the same category (EP); document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art (WO).
- A Technological background
- O non-written disclosure
- P intermediate document (EP); published prior to the international filing date but later than the priority date claimed (WO).
- T Theory or principle underlying the invention
- E Earlier patent document, but published on, or after the filing date.
- D Document cited in the application.
- L Document cited for other reasons

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