

Subject Coverage	<ul style="list-style-type: none"> Analytical chemistry Applied chemistry Biochemistry 	<ul style="list-style-type: none"> Chemical engineering Macromolecular chemistry Organic chemistry
File Type	Bibliographic	
Features	Thesaurus Classification Code (/CC), Company Name (/CO), Controlled Term (/CT), European Patent Classification (/EPC), F-Term (/FTERM), ICO (in-computer-only) Classification (/ICO), International Patent Classifications (/IPC), National Patent Classifications Current (/NCL), National Patent Classifications Issue (/INCL), and Role (/RL)	
	Alerts (SDIs) Biweekly	
	CAS Registry Numbers[®] <input checked="" type="checkbox"/>	Page Images <input checked="" type="checkbox"/>
	Keep & Share <input checked="" type="checkbox"/>	SLART <input checked="" type="checkbox"/>
	Learning Database <input checked="" type="checkbox"/>	Structures <input checked="" type="checkbox"/>
		STN AnaVist <input type="checkbox"/>
		STN Easy <input type="checkbox"/>
		STN Viewer <input type="checkbox"/>
Record Content	<ul style="list-style-type: none"> Bibliographic information, indexing, and available abstracts Cited references for journals, conference proceedings, and basic patents from the US, EPO, WIPO, and German patent offices added to CAS databases since 1997 Patent examiner citations from British and French patents (2003-present), Canadian patents (2005-present), Japanese patents (September 12, 2011-present), as well as nearly 300,000 patent records from 1982-2008 Citing references Legal status information for U.S. patents since 1980 	
File Size	More than 31.1 million records (11/11)	
Coverage	1907-present plus over 180,000 pre-1907 records	
Updates	Weekly updates (approx. 14,000 records)	
Language	English	
Database Producer	Chemical Abstracts Service 2540 Olentangy River Road P.O. Box 3012 Columbus, Ohio 43210-0012 USA Phone: 800-753-4227 (North America) Phone: 614-447-3700 (worldwide) Fax: 614-447-3751 E-mail: help@cas.org Copyright Holder	

- Sources**
- Journals: Over 10,000 journals are monitored. New indexed records are added weekly.
 - Patents
 - Conference Proceedings
 - Electronic-only Journals
 - Books
 - Dissertations
 - Reviews
 - Technical Disclosures
 - Web Pre-prints
 - Meeting Abstracts
-

- User Aids**
- Support and training materials are available on the web: www.cas.org
 - Online Helps (HELP DIRECTORY lists all help messages available)
 - STNGUIDE
-

Clusters None

- Related Databases**
- CAplus
 - LCA
-

Pricing See the [STN Price List](#) or enter HELP COST at an arrow prompt.

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*). The minimum stem length for left truncation is three (3) characters.

General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from title (TI), supplementary term (ST), index term (IT), and abstract (AB) fields, as well as CAS Registry Numbers)	None (or /BI or /IA)	S 50-21-5 S TRANSGENIC COTTON S ?FLUOROCARBON? S (WATER(S)OIL)/BI	AB, IT, ST, TI
Abstract *	/AB	S (WATER(1W)OIL)/AB S LD50/AB S HIGH TEMP?/AB S (HIV(S)TREAT?)/AB	AB
Accession Number	/AN	S 65:109061/AN	AN
Author (inventor)	/AU	S LEHNINGER A?/AU S (DUCHEYNE P?(S)EDITOR#)/AU S ANON/AU	AU, IN
CA Section Cross Reference (1,2) (number and title)	/SX	S 1/SX S ANALYTICAL/SX S RADIATION CHEMISTRY/SX	CC
Classification Code (2,4) (contains CA section-subsection number, if available, section title, and section group codes)	/CC	S 1/CC S 80-6/CC S TOXICOLOGY/CC S RADIATION CHEMISTRY/CC S L1 AND BIO/CC	CC
Company Name (4)	/CO	E DOW CHEMICAL/CO	CO, CS, PA
Controlled Term (3,4)	/CT	S ANTITUMOR AGENTS/CT	CT, IT
Controlled Word (3)	/CW	S OPTIC?/CW	CT, IT
Corporate Source (2) (organization name, patent assignee)	/CS	S DOW/CS S DOW CHEM MIDLAND/CS S "DOW CORNING"?/CS	CS, PA
Country of Author	/CYA	S USA/CYA	CS, CYA, PA
Document Type (code and text)	/DT (or /TC)	S P/DT S PATENT/DT S REVIEW/DT	DT
Entry Date (1,5)	/ED	S ED>20010511 S ED>MAY 11, 2001	ED
Field Availability	/FA	S L1 AND ABS/FA	Not displayed
File Segment	/FS	S BIO/FS AND L2	FS
Index Term * (3,6)	/IT	S 75-28-5(2W)CRACKING OF/IT S DETN OF/IT	IT
International Standard (Document) Number (contains CODEN, ISBN, and ISSN) (1)	/ISN	S JOCRAM/ISN S 0021-9673/ISN	ISN, SO
Issue Number of Publication (5,7)	/IS	S 1-3/IS AND 32/VL	SO
Journal Title (8)	/JT	S J CHROMATOGR/JT S COMPT REND?/JT	JT, SO
Language (code and text) (9)	/LA	S L1 AND EN/LA S L1 AND ENGLISH/LA S L1 NOT DE/LA	LA
Original Reference Number (10)	/OREF	S 63:5967A/OREF	OREF
Other Source (1)	/OS	S L1 AND MARPAT/OS	OS

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Publication Date (5)	/PD	S PD>20010400 S JUNE 1992-SEPT 1993/PD	PI, SO
Publication Year (5)	/PY	S 1947-1949/PY	PI, PY, SO
Publisher (2)	/PB	S ACADEMIC/PB	PB
Publisher Item Identifier (1)	/PUI	S "S 0014-5793(96)01227-6"/PUI	PUI
Role (1,4)	/RL	S 99685-96-8(L)SPN/RL S 99685-96-8/SPN S FULLERENES(L)SPN/RL S FULLERENES/SPN	IT, RL
Source (contains publication title, date, publisher, conference title, meeting date, volume, issue, pagination, CODEN, ISBN, ISSN, and URL)	/SO	S INORG CHEM/SO S JOCRAM/SO S 0021-9673/SO S AM CERAM SOC/SO S 1992/SO	SO
Supplementary Term * (1)	/ST	S LIVER METAB?/ST	ST
Title *	/TI	S LIVER/TI S SPIN SPIN/TI S (METABOLISME(S)VEGETAUX)/TI	TI
Uniform Resource Locator (1)	/URL	S "HTTP://WWW.BIOSCIENCE.ORG/BIOSCIENCE/1996/V1/D/CHINTALL/HTMLS/324-339.HTM"/URL	SO, URL
Update Date (5)	/UP	S L1 AND UP>20010400 S UP>APRIL 1, 2001	Not displayed
Update Date, Addition of Registered Substance (5)	/UPIT	S L2 AND UPIT>20080200	Not displayed
Update Date, Patent Family (5)	/UPP	S L1 AND UPP>20080100	UPP
Volume and Issue of CA	/VI	S 41-17/VI	DN
Volume Number of Publication (5)	/VL	S 105-106/VL AND SCIENCE/JT	SO

- (1) Content of this field is available for records from 1967 to the present except for the PREP (Preparation) role that has been assigned back to 1907. ISBNs are included only for records added since December 17, 2001.
- (2) Search with implied (S) proximity is available in this field.
- (3) Pre-1967 subject index headings are searchable in the /CT and /CW field only if they matched the index headings in the CA Lexicon database. Unmatched pre-1967 subject headings are searchable as single words in the /IT and /BI fields.
- (4) A thesaurus is available in this field.
- (5) Numeric search field that may be searched with numeric operators or ranges.
- (6) Stopwords are not removed from this field.
- (7) Content of this field is available only for records from 1963 to the present.
- (8) Full Journal Titles are available for most records from 1907 to the present.
- (9) Language is available only for records from 1967 to the present and for some journals prior to 1967.
- (10) OREF contains the CA volume number and page location information for abstracts published 1907-1966.

Patent Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Country Number Count (1) Designated States (2) Designated States, Basic (2) European Classifications (3)	/CYC /DS /DS.B /ECLA (or /EPC or /EPCLA)	S L1 AND 4-5/CYC S FR/DS;S R DE/DS S DE/DS.B S C01B003/ECLA S C01B003/00D2/ECLA	CY.CNT DS, PI DS, PI CLASS, ECLA, EPC, EPCLA
Family Accession Number Family Accession Number Count (1)	/FAN /FAN.CNT	S 1998:98369/FAN S L1 AND FAN.CNT>1	FAN Not displayed
F-Terms (Patent Classifications from the Japanese Patent Office) (4)	/FTERM (or /FTCLA or /JPCLA)	S 4C002/BB03/FTERM S 4C002/FTERM	CLASS, FTERM, FTCLA, JPCLA
ICO (in-computer-only) Classification (3)	/ICO	S K61B0010:00L10/ICO	ECLA, EPC, EPCLA, ICO
International Patent Classification, Action Date (1)	/IPC.ACD	S 20050101/IPC.ACD	IPC.TAB
International Patent Classification, Additional or Supplementary (2,6)	/ICA	S B01J/ICA S B01J027/ICA S CYANOGEN/ICA	ICA
International Patent Classification, All (5)	/IPC	S A61K/IPC S A61K0031-473/IPC	IPC
International Patent Classification, Basic Patent	/IPC.B	S G01N0001-28/IPC.B	IPC.B
International Patent Classification, Index or Complementary (2,6)	/ICI	S A61K/ICI S A61K031/ICI S AMMONIA/ICI	ICI
International Patent Classification, Keywords	/IPC.KW	S G01N000128/IPC(S)BASIC/IPC.KW	IPC.TAB
International Patent Classification, Main (2,6)	/ICM	S A01N/ICM S A01N025/ICM S AMMONIA/ICM	IC, ICM
International Patent Classification, Main and Secondary (6)	/IC	S C07C/IC S C07C015/IC S C07C015-04/IC S CYANOGEN/IC	IC
International Patent Classification, Main Group, Range Searchable (1,2,6)	/MGR	S 10-20/MGR(S)C07C/IC	IC
International Patent Classification, Secondary (2,6)	/ICS	S C02F/ICS S C02F001/ICS S AMMONIA/ICS	IC, ICS
International Patent Classification, Subgroup, Range Searchable (1,2,6)	/SGR	S SGR=>30000(S)C01B031/IC	IC
International Patent Classification, Version	/IPC.VER	S 6/IPC.VER	IPC.TAB
International Patent Initial Classification	/IPCI	S H01L0023-29/IPCI	IPCI
International Patent Reclassification	/IPCR	S C08L0061-00/IPCR	IPCR
Inventor	/IN	S PATTON JERRY R/IN	IN
National Patent Classification, Current (7)	/NCL	S 106035000/NCL S 106/035.000/NCL S 433/227-433/229/NCL S ZEOLITES/NCL	NCL, CLASS
National Patent Classification, Issue (8)	/INCL	S 433228000/INCL S 433/227-433/229/INCL S 433/228.000/INCL	INCL, CLASS
National Patent Classification, Issue, Range Searchable (1,8)	/NCLR	S 106020000-106040000/NCLR	NCL, CLASS
Patent Application Country	/AC	S DE/AC	AI, PI
Patent Application Country, Basic	/AC.B	S DE/AC.B	AI, PI

Patent Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Patent Application Date (1,9)	/AD	S AD>19920100 S AD>JANUARY 20, 1993	AI, PI
Patent Application Date, Basic (1,4)	/AD.B	S 19970220/AD.B	AI, PI
Patent Application Number (2,10)	/AP	S EP83-304630/AP S 83EP-0304630/AP S JP87-10001/AP S 87JP-0010001/AP	AI, PI AI, PI
Patent Application Number, Basic (2)	/AP.B	S JP87-10001/AP.B	AI, PI
Patent Application Year (1,9)	/AY	S 1990-1992/AY	AI, PI
Patent Application Year, Basic (1,9)	/AY.B	S AY.B>1997	AI, PI
Patent Assignee (11)	/PA	S PFIZER/PA S PFIZER CORP/PA S BADISCHE ANILIN/PA OR BASF/PA	PA
Patent Country	/PC	S WO/PC	PI
Patent Country, Basic	/PC.B	S JP/PC.B	PI
Patent Kind Code (2)	/PK	S DEA1/PK	PI
Patent Kind Code, Basic (2)	/PK.B	S DEA1/PK.B	PI
Patent Number (10)	/PN	S EP536930/PN S EP-536930/PN S WO8402426/PN S JP04000104/PN S JP62000031/PN S IP6243D/PN	PI
Patent Number, Basic (10)	/PN.B	S JP60008341/PN.B	PI
Patent Number Count (1)	/PNC	S 3/PNC	PN.CNT
Patent Number/Kind Code	/PNK	S US20050136407/PNK	PNK
Patent Number/Kind Code of the Basic Patent	/PNK.B	S US20050136407/PNK.B	PNK.B
Priority Application Country	/PRC	S US/PRC	PRAI
Priority Application Country, Basic	/PRC.B	S US/PRC.B	PRAI
Priority Application Date (1,9)	/PRD	S PRD>19910600 S June 20 1991/PRD	PRAI
Priority Application Date, Basic (1,9)	/PRD.B	S PRD.B>19940100	PRAI
Priority Application Number (2,10,12)	/PRN	S US91-635890/PRN S 91US-0635890/PRN S IP2002-6243D/PRN	PRAI
Priority Application Number, Basic (2,10,12)	/PRN.B	S US91-721765/PRN.B	PRAI
Priority Application Year (1,9)	/PRY	S 1990-1992/PRY	PRAI
Priority Application Year, Basic (1,9)	/PRY.B	S 1997/PRY.B	PRAI
Publication Date (Patent, Basic) (1)	/PD.B	S 19980109/PD.B	PI
Publication Year (Patent, Basic) (1)	/PY.B	S 1990-1991/PY.B	PI
Update Date Patent Family (1,2)	/UPP	S US5837509/PN AND UPP>19990100	PI
Update Date, Maximum (contains /UP and /UPP) (1,2)	/UPM	S L1 and UPM>=20040400	PI

(1) Numeric search field that may be searched with numeric operators or ranges.

(2) Content of this field is available only for records starting in 1967.

(3) A thesaurus is available in this field.

(4) Content of this field is available only for records from January 2004 to the present. A thesaurus is available in this field.

(5) This field contains all IPCs (pre-IPC Reform and post-IPC Reform) for the basic patents and family members. A thesaurus is available in this field.

(6) This field contains the IPCs only for the basic patents published with pre-IPC Reform codes. This field will not be updated with the IPC Reform codes. Use the /IPC field to search all IPCs (pre-IPC Reform and post-IPC Reform) for the basic patent documents and family members.

(7) This field contains current US Patent Classifications applied to records for basic and family US patents from 1907 to the present. An online thesaurus is available. Current National Patent Classifications may be range-searchable in Manual of Classification order. However, the /NCL field is not a numeric field and may not be searched using numeric operators.

(8) This field contains US Patent Classifications that were in effect when the patent was originally published. Content is available for basic patents only. An online thesaurus is available. Issued National Patent Classifications may be range-searchable in Manual of Classification order. However, the /INCL field is not a numeric field and may not be searched using numeric operators.

- (9) Data are available from 1962 (vol. 56) to the present.
 (10) Either STN or Derwent format may be used.
 (11) Search with implied (S) proximity is available in this field.
 (12) U.S. provisional priority numbers are searched only with the P appended, e.g., US1999-121903P/PRN.

Super Search Fields

Enter a super search code to execute a search in one or more fields that may contain the desired information. Super search fields facilitate crossfile and multifile searching. EXPAND may not be used with super search fields. Use EXPAND with the individual field codes instead.

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
IPC of the Basic Patent (Old version of the /IPC super search field)	/IPC.OLD	/IC, /ICA, /ICI	S A01B/IPC/OLD	IC, ICA, ICI
Patent Application and Priority Number (1,2)	/APPS	/AP, /PRN	S A01B001/IPC.OLD S DE84-3400052/APPS	AI, PI, PRAI
Patent Application and Priority Number, Basic (1,2)	/APPS.B	/AP.B, /PRN.B	S 84DE-3400052/APPS S DE84-3400052/APPS.B	AI, PI, PRAI
Patent Countries	/PCS	/PC, /DS	S DE/PCS	DS, PI
Patent Countries, Basic	/PCS.B	/PC.B, /DS.B	S AT/PCS.B	DS, PI
Patent Numbers (2)	/PATS	/PN	S EP536930/PATS S EP-536930/PATS S WO8402426/PATS S JP04000104/PATS S JP62000031/PATS	PI, SO
Patent Numbers, Basic (2)	/PATS.B	/PN.B	S WO9850074/PATS.B	PI, SO

- (1) Content of these fields is available only for records from 1967 to the present.
 (2) Either STN or Derwent format may be used.

Cited References Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Cited Reference (contains referenced author, inventor, or assignee, year, volume, page, work title, or patent number)	/RE	S BLONDELLE S, 1999?/RE S DE 3604874?/RE	RE
Cited Reference Accession Number in Caplus	/RAN.CAPLUS	S 1995:998201/RAN.CAPLUS	Not displayed
Cited Reference Accession Number in CA	/RAN.CA	S 122:196348/RAN.CA	Not displayed
Cited Reference Accession Number in MEDLINE	/RAN.MED	S 96233652/RAN.MED	Not displayed
Cited Reference Author Name	/RAU	S O REILLY/RAU	RE
Cited Reference File Availability	/FILE.CIT	S L1 AND CAPLUS/FILE.CIT S L1 AND MEDLINE/FILE.CIT	Not displayed
Cited Reference Inventor Name	/RIN	S ABBOTT ?/RIN	RE
Cited Reference Page Number (first)	/RPG	S 200/RPG	RE
Cited Reference Patent Country Code	/RPC	S DE/RPC	RE
Cited Reference Patent Kind Code	/RPK	S DEA1/RPK	RE
Cited Reference Patent Number	/RPN	S US5792845/RPN	RE
Cited Reference Publication Year (1)	/RPY	S 1997-1998/RPY	RE
Cited Reference Series Issue Number	/RIS	S (2 OR 3)/RIS	RE
Cited Reference Series Volume Number	/RVL	S (3 OR 4)/RVL	RE
Cited Reference Source Information (2) (contains year, volume, issue, page, and publication title)	/RSO	S (MOL AND BIOL AND 1997)/RSO	RE
Cited Reference Work (Publication Title)	/RWK	S CANCER RES/RWK	RE
Cited References Count (1)	/RE.CNT (or /REC)	S REC>0 S 1-20/RE.CNT	RE RE.CNT (REC)

(1) Numeric search field that may be searched with numeric operators or ranges.

(2) Search with implied (S) proximity is available in this field.

Citing References Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Citing Reference Accession Numbers	/OS.G (/OS.CITING.AN)	S 2008:610804/OS.G	OS.G
Citing Reference Count	/OSC.G (/CITING.CNT)	S 2-5/OSC.G	OSC.G
Date Last Citing Reference Entered STN	/UPOS.G (/CITING.UP)	S 16 Feb 2009/UPOS.G S UPOS.G>20090216	UPOS.G
Update date, Citing Reference	/UPOG	S 20091026/UPOG	UPOS.G

REGISTRY Search Fields

You can search directly in CA any REGISTRY search term, including structures, with REG1stRY. To search a REGISTRY term in CA, enter the SEARCH command and your term followed by the REGISTRY field code, followed by /REG, e.g., SEARCH FENFLURAMINE/CN/REG. The REGISTRY search and crossover to CA are executed automatically and only the final CA answer set L-number is shown.

To suppress the automatic REG1stRY processing when searching CAS Registry Numbers in CA, enter SET REG1stRY OFF at an arrow prompt. To retain the OFF setting beyond the current session, enter SET REG1stRY OFF PERM at an arrow prompt.

Enter HELP FIRST at an arrow prompt in CA for more information.

CA Section (/CC) Thesaurus

The CA Section (/CC) thesaurus is available for records from 1907 to the present.

All Relationship Codes may be used with both the SEARCH and EXPAND command in the /CC thesaurus.

Code	Content	Examples
ALL	All associated terms (BT, SELF, NOTE, HNTE, OLD, CUR, REPL, NT)	E 57 CERAMICS, 1967 TO PRESENT+ALL/CC
BT	Broader Terms (BT, SELF)	E 1 PHARMACOLOGY, 1982 TO PRESENT+BT/CC
CUR	Current Terms (SELF, CUR)	E 1 PHARMACODYNAMICS, 1972-1981+CUR/CC
HIE	Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)	E 31 ALKALOIDS, 1967 TO PRESENT+HIE/CC
HIS	History (SELF, HNTE, CUR, OLD, REPL)	E 17 FOOD AND FEED CHEMISTRY, 1982 TO PRESENT+HIS/CC
HNTE	History Note (SELF, HNTE)	E 1 PHARMACOLOGY, 1982 TO PRESENT+HNTE/CC
KT	Keyword Terms (SELF, KT)	E TOXICITY+KT/CC
NOTE	Notes associated with the term (SELF, NOTE, HNTE)	E 4 TOXICOLOGY, 1972 TO PRESENT+NOTE/CC
NT	Narrower Terms (SELF, NT)	E 4 TOXICOLOGY, 1972 TO PRESENT+NT/CC
RT	Related Terms (SELF, RT)	E 33 CARBOHYDRATES, 1967 TO PRESENT+RT/CC
STD	Standard (Broader Terms, Notes, Narrower Terms) (BT, SELF, HNTE, NOTE, NT)	E 32 STEROIDS, 1967 TO PRESENT+STD/CC
UF	Used For (Forbidden Terms) (SELF, UF)	E 32 STEROIDS, 1967 TO PRESENT+UF/CC
USE	Use (Preferred Terms) (SELF, USE)	E IMMUNOCHEMISTRY+USE/CC

Field Descriptors for the /CC Thesaurus

Code	Description
→	Self
BT	Broader Term (CA section grouping)
CUR	Current Term (current CA section)
HNTE	History Note (section history note)
KT	Keyword Terms (thesaurus terms containing the SELF term)
NOTE	Note (CA section content note)
NT	Narrower Term (subsections for CA sections from 1972 to the present)
OLD	Old Term (previously used sections)
REPL	Replacing Term (more recent, but not current, section)
RT	Related Term (related concurrently existing sections)
UF	Used for Term (non-preferred terms or sections)
USE	Use Term (preferred terms)

Company Name (/CO) Thesaurus Search Aid

The Company Name thesaurus search aid is available in the /CO field with the most frequently occurring major company names for records from 1907 to the present.

All Relationship Codes may be used with both the SEARCH and EXPAND command in the /CO field.

Code	Content	Examples
ALL	All Associated Terms (CNUM, NAME, SELF, RT, JV, NOTE)	E DOW CHEMICAL CO+ALL/CO
CNUM	CAS Assigned Number (CNUM, SELF, NOTE, NAME, RT, JV)	E HONDA MOTOR CO LTD+CNUM/CO
JV	Joint Venture (SELF, JV, NAME, NOTE)	E BAYER AG+JV/CO
NAME	Highest level company name information (NAME, SELF, NOTE, RT, JV)	E DOW CHEMICAL+NAME/CO E ANGUS CHEMICAL COMPANY+NAME/CO
NOTE	Note (SELF, NOTE)	E CANON INC+NOTE/CO
RT	Related Term (SELF, RT, NAME, NOTE)	E CANON INC+RT/CO

Field Descriptors for the Company Name Thesaurus Search Aid

Code	Description
→	Self
NAME	Preferred name for the highest level company name
CNUM	CAS Assigned Number to identify each company family
JV	Joint Ventures
NOTE	Note associated with the term
RT	Related Term

Controlled Term (/CT) Thesaurus for the CA Lexicon

The CA Lexicon is an online search tool for the CA indexing terms for concepts, chemical classes, and taxonomic vocabulary. The thesaurus is available for records from 1967 to the present.

All Relationship Codes may be used with both the SEARCH and EXPAND command in the /CT thesaurus.

Code	Content	Examples
ALL	All Associated Terms except for LT terms (BT, SELF, HN, NOTE, UF, USE, OLD, NEW, NT, RT, RTCS)	E AZO DYES+ALL/CT
BT	Broader Terms (BT, SELF, HN)	E BRAIN+BT/CT
HIE	Hierarchy (Broader and Narrower Terms) (BT, SELF, NT)	E TRITERPENES+HIE/CT
KT	Keyword Terms (SELF, KT)	E DYES+KT/CT
HN	History Note (HN)	E PHOTOLYSIS+HN/CT
LT	Linking Terms (index heading modifying term)	E RADIOLYSIS+LT/CT
MAX	All Associated Terms, including LT terms (BT, SELF, HN, NOTE, UF, USE, OLD, NEW, NT, RT, RTCS, LT)	E DRUG DELIVERY SYSTEMS+MAX/CT
NEW	New Terms (replace OLD terms)	E NEOPLASM INHIBITORS+NEW/CT
NOTE	Notes associated with the term (SELF, HN, NOTE)	E FISH+NOTE/CT
NT	Narrower Terms (SELF, NT)	E ANTIBIOTICS+NT/CT
OLD	Old term (replaced by NEW term)	E ANTITUMOR AGENTS+OLD/CT
PFT	Preferred and Forbidden Terms (SELF, OLD, NEW, USE, UF)	E PERFUMES+PFT/CT
RT	Related Terms (SELF, RT, RTCS)	E PHOTORESISTS+RT/CT
RTCS	Related Chemical Substance Terms (SELF, RTCS)	E REFRIGERANTS+RTCS/CT
STD	Standard Terms (SELF, BT, HN, NOTE, NT, RT, RTCS)	E SUNSCREENS+STD/CT
UF	Used For (Forbidden terms) (SELF, UF)	E ARECA CATECHU+UF/CT
USE	Use Terms (SELF, USE)	E BETEL NUT+USE/CT

Field Descriptors for the /CT Thesaurus

Code	Description
→	Self
BT	Broader Term
HN	History Note
KT	Keyword Terms
NOTE	Indexing Note
NT	Narrower Term
RT	Related Term
UF	Used For
USE	Use
RTCS	Related Chemical Substance Terms
LT	Linking Terms (index heading modifying term)
OLD	Old term (replaced by NEW term)
NEW	New Terms (replace OLD terms)

European Patent Classification (/ECLA or /EPC) and ICO Thesauri

These thesauri are available in the /EPC search field (for ECLA codes) and /ICO search field (for in-computer-only codes). All relationship codes can be used with both the EXPAND and SEARCH commands.

Relationship Code	Content	Search Examples
ALL	All associated terms	E C12M0001-34H2+ALL/EPC
AUTO (1)	Automatic relationship (BT, SELF, CODE, DEF)	E G01J0003-443+AUTO/EPC
BT	Broader terms (BT, SELF, DEF)	E G01J0003-443+BT/EPC
CODE	Classification Code (SELF, CODE)	E SCRAPER BIASING MEANS+CODE/EPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/EPC
HIE	Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT)	E A01B0001+HIE/EPC
KT	Keyword terms (SELF, KT)	E LASER+KT/EPC
MAX	All associated terms	E G01J0003-44B+MAX/EPC
NEXT	Next classification within the same class (SELF, NEXT, DEF)	E A01B0001-24+NEXT/EPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/EPC
NT	Narrower terms (SELF, NT, DEF)	E G05B0001-04+NT/EPC
PREV	Previous Code within the same class (PREV, SELF, DEF)	E G05B0019-418N1+PREV/EPC
PREV(n)	Previous n codes within the same class	E G05B0019-418N1+PREV2/EPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF, DEF)	E G05B0001-03+TI/EPC

(1) Automatic Relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

F-Term Thesaurus

This thesaurus is available in the F-Term (/FTERM) field that contains patent classifications from the Japanese Patent Office in records from January 2004 to the present.

Code	Content	Example
ALL	All associated terms (BT, SELF, TI, NT)	E 4K001/AA16+ALL/FTERM
BRO(n)	Browse n preceding and following Classifications	E 4K001/AA20+BRO3/FTERM
BT	Broader Terms (BT, SELF)	E 4K001/AA25+BT/FTERM
HIE	Hierarchy (BT, SELF, NT)	E 4K001/AA14+HIE/FTERM
NEXT(n)	Next n Classifications	E 4K001/AA16+NEXT5/NCL
NT	Narrower Terms (SELF, NT)	E 4K001+NT/FTERM
PREV(n)	Previous n Classifications	E 5K002+PREV3/FTERM
RT	Related term	E 4K001+RT/FTERM
TI	Complete Title of the SELF Term	E 4K001/AA07+TI/FTERM

IPC Thesauri

The classifications and catchwords for the main headings and subheadings from the current (8th) edition of the WIPO International Patent Classification (IPC) manual are available. The classifications from the previous editions (1-7) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-7, use the field code followed by the edition number, e.g., /IPC2, for the 2nd edition. Catchwords are included only in the thesauri for the 8th, 7th, 6th, and 5th editions.

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IPC
ADV	Advanced Terms (SELF, ADVANCED)	E A01N0047-02+ADV/IPC
BRO (MAN)	Complete Class	E C01C+BRO/IPC
BT	Broader Terms (BT, SELF)	E C01F001-00+BT/IPC
COR	Core Terms (SELF, CORE)	E A01N0041-12+COR/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IPC
HIE	Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT)	E C01C003-00+HIE/IPC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IPC
KT	Keyword Terms (catchwords) (SELF, KT)	E CYANOGEN+KT/IPC
NEXT	Next Classification	E C01C001-00+NEXT5/IPC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IPC
PREV	Previous Classification	E C01C001-12+PREV10/IPC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IPC

National Patent Classification Thesaurus

A thesaurus is present for the National Patent Classification, Current (/NCL) and the National Patent Classification, Issue (INCL) fields.

Code	Content	Example
ALL	All associated terms (BT, SELF, TI, NT)	E 210190000+ALL/NCL
BRO(n)	Browse n preceding and following Classifications	E 502060000+BRO3/NCL
BT	Broader Terms (BT, SELF)	E 502060000+BT/NCL
HIE	Hierarchy (BT, SELF, NT)	E 502060000+HIE/NCL
KT	Keyword Terms (1) (SELF, KT)	E ZEOLITES+KT/NCL
NEXT(n)	Next n Classifications	E 210660000+NEXT5/NCL
NT	Narrower Terms (SELF, NT)	E 502060000+NT/NCL
PREV(n)	Previous n Classifications	E 210665000+PREV3/NCL
RT	Related Term	E 220+RT/NCL
TI	Complete Title of the SELF Term	E 502060000+TI/NCL

(1) Keyword terms are the catchwords corresponding to the USPTO Manual of Classifications subject index headings and subheadings.

Role (/RL) Thesaurus

The thesaurus is available for records from 1967 to the present.

Code	Content	Examples
ALL	All associated terms, including Notes (BT, SELF, NOTE, NT)	E SPN+ALL/RL
BT	Broader Terms (SELF, BT)	E CAT+BT/RL
HIE	Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT)	E FFD+HIE/RL
NOTE	Any Notes (role definitions) (SELF, NOTE)	E IMF+NOTE/RL
NT	Narrower Terms (SELF, NT)	E USES+NT/RL

DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU; D L1 1-5 TI,AU. The fields are displayed or printed in the order requested.

Hit-term highlighting is available in all fields except FAN. In the table-like display of the PI (Patent Information) field, highlighting is shown by an arrow on the right side pointing to the line that includes the hit terms.

Highlighting must be on during SEARCH in order to use the FHITSEQ, FHITSTR, HIT, HITIND, HITRN, HITSEQ, HITSTR, KWIC, and OCC display formats.

Format	Content	Examples
AB	Abstract Text	D TI AB
AI (AP) (1,2)	Patent Application Information	D AI
AI.B (AP.B) (1,2)	Patent Application Information, Basic	D AI.B
AN	Accession Number and Original Reference Number	D 1-5 AN
AU	Author Name	D AU, TI
CC	CA Classification Code (CA section and section cross-references)	D CC
CS	Corporate Source	D TI AU CS
CT (2)	Controlled Term	D CT
CUR (3)	Patent Currency Status	D CUR ALL
CYA (2)	Country of Author	D CYA
CYC (CY.CNT) (2)	Patent Country Count	D CYC
DS (2)	Designated States	D DS
DS.B (2)	Designated States, Basic	D DS.B
DT (TC)	Document Type	D DT
ECLA (EPC, EPCLA)	Patent Family European Classifications associated with patent numbers	D ECLA
ED (2)	Entry Date	D ED
FS (2)	File Segment	D FS
FTERM	File Forming Terms from the Japanese Patent Office associated with patent numbers	D FTERM
GI (2,4)	Graphic Image or Graphic Image Information	D GI
ICA	Additional or Supplementary IPC	D ICA
ICI	Index or Complementary IPC	D ICI
ICM	Main IPC	D ICM
ICO	ICO Classification	D ICO
ICS	Secondary IPC	D ICS
IN	Inventor Name	D IN
INCL	Issued National Classification	D INCL
ISN (2)	International Standard (Document) Number	D ISN
IT (5)	Index Term and Role	D AN IT
JT (2)	Journal Title	D JT
JTA (2)	Journal Title, Abbreviated	D JT
JTF (2,6,7)	Journal Title, Full	D JTF 1-3
LA	Language	D LA
LSUS (2)	Legal status information for U.S. patents	D LSUS
NCL	National Patent Classification, Current	D PI IC NCL
OREF (6)	Original Reference Number	D OREF
OS	Other Source	D TI OS
OS.G (OS.CITING.AN)	Citing Reference Accession Numbers	D OS.G
OSC.G (CITING.CNT)	Citing Reference Count	D OSC.G

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
PA PB PI (1) PI.B (PN.B) (1,2) PN PNC (PN.CNT) (2) PNK PNK.B PRAI (PRN) (1) PRAI.B (PRN.B) (1,2) PUI (2) PY (2) PY.B (2) RE (6) RETABLE (2,6) RE.CNT (REC) (6) RL (5) RN (2) SO ST SX (2,8) TI UPOS.G URL (2)	Patent Assignee Publisher Patent Information Table Patent Information, Basic Patent Number Patent Number Count Patent Number/Kind Code Patent Number/Kind Code of the Basic Patent Priority Application Information Priority Application Information, Basic Publisher Item Identifier Publication Year Publication Year, Basic Cited References Cited References Table Cited References Count Index Term and Role CAS Registry Number Source Supplementary Term (CA Keyword) CA Section Cross Reference Code Title of Document Date Last Citing Reference Entered STN Uniform Resource Locator	D PA D PB D TI PI D PI.B D PN D PNC D PNK D PNK.B D PRAI D PRAI.B D PUI D TI PY D TI PY.B D TI RE D TI AU RETABLE D REC D RL D AN RN D TI AU SO D ST D TI SX DIS TI 1-10 D OS.G D URL
ABS (4) ALL (1,4,5) APPS (1) BIB (1) CAN CBIB (1) CLASS DALL (1,4,5) DMAX (1,4,5) FAM FAN FBIB (1) IABS (1,4) IALL (1,4,5) IBIB IMAX (1,4,5) IND (5) IPC IPC.B IPC.TAB IPC.UNIQ IPCI IPCR ISTD (1) MAX (1,4,5)	GI, AB AN, DN, OREF, ED, TI, AU, IN, CS, PA, SO, PB, DT, LA, INCL, CC, FAN.CNT, PI, PRAI, CLASS, OS, GI, AB, ST, IT, RL, OSC.G, UPOS.G, OS.G, RE, RE.CNT AI, PRAI AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS, OSC.G, RE.CNT (BIB is the default) List of CA Abstract Numbers, no L-number headers) AN, OREF, plus compressed bibliographic data Classifications (IPC, ECLA, ICO, NCL, and FTERM codes) associated with basic patent and family members ALL, delimited for post-processing MAX, delimited for post-processing AN, FAN.CNT, PI for the accession number, plus PI for other family accession numbers Family Accession Number (AN, FAN.CNT, FAN) BIB plus PI for other family accession numbers ABS, with text labels ALL, indented with text labels BIB, indented with text labels MAX, indented with text labels INCL, IPCI, IPCR, NCL, CC, ST, IT, RL International Patent Classifications for the basic patent and patent family members IPC of the Basic Patent IPC, Tabular Display IPC codes unique for a basic patent and equivalents IPC Initial Classification IPC Reclassification STD, indented with text labels ALL, plus FAN and PI for other family accession numbers	D ABS D 1-30 ALL D APPS D 1 3 D CAN D L2 1 CBIB D CLASS D DALL D MAX D FAM D FAN D FBIB D IABS D IALL D IBIB D IMAX D TI IND D L2 1 IPC D IPC.B D IPC.TAB D IPC.UNIQ D IPCI D IPCR D ISTD D MAX

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
OBIB (1) OIBIB (1) OSG OSG.MAX OS.GMAX PAGE (9) PATS (1) SAM (5) SCAN (5,6,10)	BIB, Original, without patent family data (AN, OREF, TI, AU, IN, CS, PA, SO, PB, PI, DS, AI, PRAI, DT, LA, OS) OBIB, indented with text labels OSC.G, UPOS.G, OS.G (up to 50 accession numbers) OSC.G, UPOS.G, and OS.G (up to 1020 accession numbers) OS.G (up to 1020 accession numbers) Page images of CA pages containing the AN of a record PI, SO INCL, IPCI, IPCR, NCL, CC, TI, ST, IT, RL INCL, IPCI, IPCR, NCL, CC, TI, ST, IT, RL (random display, no answer numbers)	D OBIB D OIBIB D OSG D OSG.MAX D OS.GMAX D PAGE D PATS DIS SAM 1-5 D SCAN
SBIB (1) SIBIB (1) STD (1)	BIB, Standard, without cited references (AN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS) BIB, without RE.CNT AN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, IC, ICA, ICI, INCL, FAN.CNT, PI, PRAI, CLASS, OS, OSC.G, RE.CNT	D 1 3 SBIB D SIBIB D STD
FHITSEQ (5) FHITSTR (5) HIT HITIND (5) HITRN (5) HITSEQ (5) HITSTR (5) IPC.HIT (HITIPC) KWIC OCC (6)	First hit CAS Registry Number, its role, text modification, its CA index name, and the sequence diagram First hit CAS Registry Number, its role, text modification, its CA index name, and the structure diagram Fields containing hit terms NCL, CC, ST, IT, and RL containing hit terms Hit CAS Registry Number, its role, and text modification Hit CAS Registry Number, its role, text modification, its CA index name, and its sequence diagram Hit CAS Registry Number, its role, text modification, its CA index name, and its structure diagram Hit IPC Hit terms plus 20 words on either side (Key-Word-In-Context) Number of occurrences of hit terms and fields in which they occur	D CBIB FHITSEQ D CBIB FHITSTR D HIT 1-5 D HITIND D HITRN D HITSTR KWIC D HITSTR KWIC D IPC.HIT or D HITIPC D 1-7 TI KWIC D OCC

- (1) By default, patent, application, and priority numbers are displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset the display to STN format, enter SET PATENT STN.
- (2) Custom display only.
- (3) CUR must be entered on the command line, e.g., D CUR. The patent status information displays before the requested records.
- (4) Structure diagrams in abstracts in the GI (Graphics Image) field are not available on text (type 3) terminals.
- (5) By default, roles are displayed as codes and text. To suppress display of role codes and text, enter SET ROLES OFF. To display only codes, enter SET ROLES CODES.
- (6) No online display fee for this format.
- (7) Full journal titles are available for most records from 1907.
- (8) SX displays all information in the CC field, i.e., CA section and section cross-references.
- (9) The PAGE format is used in the DISPLAY command to download images of pages of printed CA with abstracts published in 1907-1998. If the abstract is located on more than one page, all the relevant pages are automatically downloaded.
- (10) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

Displaying CPlus, CA, or MEDLINE documents for cited references

Enter the following in the DISPLAY command: L-number for the answer set; answer number (only one may be specified); RAN.CAPLUS(x-y), RAN.CA(x-y), RAN.MED(x-y), where (x-y) is the cited reference number, numbers, or range of numbers; and the display format for the document to display, e.g., BIB ABS. For example, to display CA records for the cited references 1 and 2 from answer 2 in the answer set L5, enter the following:

=> D RAN.CA(1-2) L5 2 BIB ABS

SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Author	AU	Y	Y
CA Classification Code (section and subsection)	CC	Y	Y
CA Section Cross-Reference	SX	Y	Y
CAS Registry Number	RN	Y (2)	N
Citation	CIT	Y (3,4)	N
Cited References	RE	N	N
Cited Reference(n)	RE(n)	Y (5)	N
Cited Reference Accession Number in CA	RAN.CA	Y (6)	N
Cited Reference Accession Number(n) in CA	RAN.CA(n)	Y (5,6)	N
Cited Reference Accession Number(n) in MEDLINE	RAN.MED(n)	Y (5,7)	N
Cited Reference Author Name	RAU	Y	N
	RIN	Y (8)	N
Cited Reference Count	RE.CNT	Y	Y
	REC	Y	Y
Cited Reference Patent Number	RPN	Y	N
Cited Reference Publication Year	RPY	Y	N
Cited Reference Work Title	RWK	Y	N
Citing Reference Accession Numbers	OS.G (OS.CITING.AN)	Y	N
Citing Reference Count	OSC.G (CITING.CNT)	Y	Y
Citing Reference Date	UPOS.G (CITING.UP)	Y	Y
CODEN	CODEN	Y (9)	Y
Company Name	CO	Y	Y
Controlled Term	CT	Y	N
Corporate Source	CS	Y	Y
Corporate Source, Division	CS.DIV	Y	N
Corporate Source, Organization	CS.ORG	Y	N
Country Name of Author	CYA	Y	Y
Designated States	DS	Y	N
Designated States, Basic	DS.B	Y (4,10)	N
Document Type	DT	Y	Y
Entry Date	ED	Y	Y
European Classifications	ECLA	Y	N
Family Accession Number	FAN	Y (4,11)	N
File Forming Terms	FTERM	Y	N
File Segment	FS	Y (4)	Y
Genbank Number	GENBANK	Y (2,4)	N
ICO Classification	ICO	Y	N
Index Term	IT	Y	N
International Standard Book Number	ISBN	Y (13)	Y
International Standard (Document) Number	ISN	Y (12)	N
International Standard Serial Number	ISSN	Y (14)	Y
Inventor Name	IN	Y	Y
IPC	IPC	Y (16)	N
IPC Initial Classification	IPCI	Y	N
IPC Reclassification	IPCR	Y	N
IPC, Additional or Supplementary	ICA	Y	Y
IPC, Advanced	IPC.A	Y (16)	N
IPC, Advanced Level for Invention	IPC.AI	Y (16)	N
IPC, Basic Patent	IPC.B	Y (16)	N

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
IPC, Core	IPC.C	Y (16)	N
IPC, Core Level for Invention	IPC.CI	Y (16)	N
IPC, First	IPC.F	Y (16)	N
IPC, Index or Complementary	ICI	Y	Y
IPC, Main	ICM	Y	Y
IPC, Main and Secondary	IC	Y	Y
IPC, Secondary	ICS	Y	Y
Issued National Classification	INCL	Y	Y
Journal Title	JT	Y	Y
Journal Title, Abbreviated	JTA	Y (16)	Y
Journal Title, Full	JTF	Y (17)	Y
Language	LA	Y	Y
National Patent Classification, Current	NCL	Y	N
Occurrence of Hit Terms	OCC	N	Y
Original Reference Number	OREF	Y (4,18)	N
Other Source	OS	Y	Y
Patent Application Country	AC	Y (4)	Y
Patent Application Country, Basic	AC.B	Y (4,19)	Y
Patent Application Date	AD	Y (4)	Y
Patent Application Date, Basic	AD.B	Y (20)	Y
Patent Application Information	AI	Y (4,21,22)	Y
Patent Application Information, Basic	AI.B	Y (4,22,23)	Y
Patent Application Number	AP	Y (4,22)	Y
Patent Application Number, Basic	AP.B	Y (22,23)	Y
Patent Application and Priority Number	APPS	Y (4,22,24)	N
Patent Application and Priority Number, Basic	APPS.B	Y (4,22,25)	N
Patent Application Year	AY	Y	Y
Patent Application Year, Basic	AY.B	Y (26)	Y
Patent Assignee	PA	Y	Y
Patent Countries	PCS	Y (4,27)	N
Patent Countries, Basic	PCS.B	Y (4,28)	N
Patent Country	PC	Y (4)	Y
Patent Country, Basic	PC.B	Y (4,29)	Y
Patent Country Count	CYC	Y (30)	N
Patent Information	PI	Y (4,22,31)	Y
Patent Information, Basic	PI.B	Y (22,32)	Y
Patent Kind Code	PK	Y (4)	Y
Patent Kind Code, Basic	PK.B	Y (4,33)	Y
Patent Number	PN	Y (4,22)	Y
Patent Number, Basic	PATS	Y (4,22,34)	N
	PN.B	Y (22,35)	Y
	PATS.B	Y (22,36)	N
Patent Number Count	PNC	Y (37)	N
Patent Number/Kind Code	PNK	Y	N
Patent Number/Kind Code of the Basic Patent	PNK.B	Y	N
Priority Application Country	PRC	Y (4)	Y
Priority Application Country, Basic	PRC.B	Y (4,38)	Y
Priority Application Date	PRD	Y (4)	Y
Priority Application Date, Basic	PRD.B	Y (39)	Y
Priority Application Information	PRAI	Y (4,22,40)	Y
Priority Application Information, Basic	PRAI.B	Y (22,41)	Y
Priority Application Number	PRN	Y (4,22)	Y
Priority Application Number, Basic	PRN.B	Y (22,42)	Y
Priority Application Year	PRY	Y (4)	Y
Priority Application Year, Basic	PRY.B	Y (43)	Y
Publication Date	PD	Y (4)	Y
Publication Date, Basic	PD.B	Y (44)	Y
Publication Year	PY	Y	Y

SELECT, ANALYZE, and SORT Fields (cont'd)

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Publication Year, Basic	PY.B	Y (45)	Y
Publisher	PB	Y	N
Publisher Item Identifier	PUI	Y	N
Role	RL	Y (4)	N
Source of Document	SO	Y (46)	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y (47)	Y
Uniform Resource Locator	URL	Y	N

- (1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT RN.
- (2) Appends /BI to the terms created by SELECT.
- (3) Extracts first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (4) SELECT HIT and ANALYZE HIT are not valid with this field.
- (5) (n) may be a single number, range, or list of numbers separated by a space or comma.
- (6) Selects or analyzes cited reference accession number in CA or CPlus and appends /AN to the terms created by SELECT.
- (7) Selects or analyzes cited reference accession number in MEDLINE and appends /AN to the terms created by SELECT.
- (8) Selects or analyzes cited reference author name and appends /RAU to the terms created by SELECT.
- (9) Selects or analyzes the CODEN and appends /ISN to the terms created by SELECT.
- (10) Appends /DS to the terms created by SELECT.
- (11) Appends /AN to the terms created by SELECT.
- (12) Selects or analyzes the CODEN and ISSN and appends /ISN to the terms created by SELECT.
- (13) Selects or analyzes ISBN and appends /ISN to the terms created by SELECT.
- (14) Selects or analyzes the ISSN and appends /ISN to the terms created by SELECT.
- (15) Selects or analyzes the IC, ICA, ICI and appends /IPC to the terms created by SELECT.
- (16) Selects or analyzes specified IPC codes and appends /IPC to the terms created by SELECT.
- (17) Selects or analyzes JTF and appends /JT to the terms created by SELECT.
- (18) Select or analyzes OREF and appends /AN to the terms created by SELECT.
- (19) Appends /AC to the terms created by SELECT.
- (20) Appends /AD to the terms created by SELECT.
- (21) Selects or analyzes the Patent Application Number and appends /AP to the terms created by SELECT.
- (22) Enter SET PATENT DERWENT at an arrow prompt (=>) to SELECT or ANALYZE patent, application, and priority numbers in Derwent format.
- (23) Selects or analyzes Basic Patent Application Number and appends /AP to the terms created by SELECT.
- (24) Selects or analyzes the AP and PRN and appends /APPS to the terms created by SELECT.
- (25) Selects or analyzes Basic Application and Priority Numbers and appends /APPS to the terms created by SELECT.
- (26) Appends /AY to the terms created by SELECT.
- (27) Selects or analyzes the country codes from PI and DS and appends /PCS to the terms created by SELECT.
- (28) Selects or analyzes country codes from PI.B and DS.B and appends /PCS to the terms created by SELECT.
- (29) Appends /PC to the terms created by SELECT.
- (30) Appends /CY.CNT to the terms created by SELECT.
- (31) Selects or analyzes the Patent Number and appends /PN to the terms created by SELECT.
- (32) Selects or analyzes Basic Patent Number and appends /PN to the terms created by SELECT.
- (33) Appends /PK to the terms created by SELECT.
- (34) Selects or analyzes the Patent Number and appends /PATS to the terms created by SELECT.
- (35) Appends /PN to the terms created by SELECT.
- (36) Selects or analyzes Basic Patent Number and appends /PATS to the terms created by SELECT.
- (37) Appends /PN.CNT to the terms created by SELECT.
- (38) Appends /PRC to the terms created by SELECT.
- (39) Appends /PRD to the terms created by SELECT.
- (40) Selects or analyzes the Priority Application Number and appends /PRN to the terms created by SELECT.
- (41) Selects or analyzes Basic Priority Application Number and appends /PRN to the terms created by SELECT.
- (42) Appends /PRN to the terms created by SELECT.
- (43) Appends /PRY to the terms created by SELECT.
- (44) Appends /PD to the terms created by SELECT.
- (45) Appends /PY to the terms created by SELECT.
- (46) Selects or analyzes the CODEN and the ISSN and appends /SO to the terms created by SELECT.
- (47) Appends /DT to the terms created by SELECT.

Sample Records

DISPLAY ALL (Journal)

L1 ANSWER 1 OF 1 CA COPYRIGHT 2011 ACS on STN
AN 132:221385 CA [Full-text](#)
ED Entered STN: 14 Apr 2000
TI Production process for recombinant human angiostatin in *Pichia pastoris*
AU Lin, J.; Panigraphy, D.; Trinh, L. B.; Folkman, J.; Shiloach, J.
CS Department of Surgery, Children's Hospital and Harvard Medical School,
Boston, MA, 02115, USA
SO Journal of Industrial Microbiology & Biotechnology (2000), 24(1), 31-35
CODEN: JIMBFL; ISSN: 1367-5435
PB Nature Publishing Group
DT Journal
LA English
CC 16-2 (Fermentation and Bioindustrial Chemistry)
AB A pilot-scale production method of recombinant human angiostatin, a 38-kD fragment of plasminogen which has been reported to have antiangiogenic activity, has been successfully established by expressing the protein in the methylotrophic yeast *Pichia pastoris*. The secreted protein inhibited cultured endothelial cell proliferation in vitro and Lewis lung carcinoma growth in mice. The fermentation process was carried out using an online methanol controller, administering methanol to the growing culture and keeping its concentration under 2 g L⁻¹. The fermentation lasted 90 h, of which 70 h were growth on methanol. During growth on methanol the culture volume increased 64%, from 7 L to 11.5 L, producing 200 mg angiostatin and 5 kg of biomass.
ST recombinant human angiostatin fermn *Pichia*
IT Fermentation
Komagataella *pastoris*
(production process for recombinant human angiostatin in *Pichia pastoris*)
IT 86090-08-6P, Angiostatin
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP
(Preparation)
(production process for recombinant human angiostatin in *Pichia pastoris*)
IT 67-56-1, Methanol, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(production process for recombinant human angiostatin in *Pichia pastoris*)
OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
UPOS.G Date last citing reference entered STN: 03 Nov 2010
OS.G CAPLUS 2010:1328434; 2010:548903; 2009:1288101; 2009:637424; 2007:75901;
2005:702147; 2005:3368; 2003:236743; 2001:230866
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE CITED REFERENCES
(1) Brierley, R; Ann NY Acad Sci 1990, V589, P350 CA
(2) Brierley, R; WO 9003431 International Patent (PCT) Application 1989 CA
(3) Chen, Y; Proc Biochem 1997, V32, P107
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(6) Holmgren, L; Nature Med 1995, V1, P149 CA
(7) Hsiao, J; Ann NY Acad Sci 1992, V665, P320 CA
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(9) Loewen, M; Appl Microbiol Biotechnol 1997, V48, P480 CA
(10) Mateles, R; Biotechnol Bioeng 1971, V13, P581 CA
(11) O'Reilly, M; Cell 1994, V79, P315 CA
(12) Romanos, M; Curr Opin Biotechnol 1995, V6, P527 CA
(13) Sim, B; Cancer Res 1977, V57, P1329
(14) Sreekrishna, K; Gene 1997, V190, P55 CA
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(16) Tschopp, J; Nucleic Acid Res 1987, V15, P3859 CA
(17) Wagner, L; Biotechnol Techniques 1997, V11, P791 CA
(18) Weidner, N; New Engl J Med 1991, V324, P1 MEDLINE

DISPLAY BIB LSUS (Patent)

L1 ANSWER 1 OF 2 CA COPYRIGHT 2011 ACS on STN
AN 149:264451 CA [Full-text](#)
TI MicroRNA expression abnormalities in pancreatic endocrine and
acinar tumors
IN Croce, Carlo M.; Calin, George A.
PA The Ohio State University Research Foundation, USA
SO PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007081680	A2	20070719	WO 2007-US24	20070103
	WO 2007081680	A3	20071227		
	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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AP, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, EA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, EP, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, OA, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2007205257	A1	20070719	AU 2007-205257	20070103
	CA 2635616	A1	20070719	CA 2007-2635616	20070103
	EP 1968622	A2	20080917	EP 2007-716208	20070103
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
	JP 2009521952	T	20090611	JP 2008-549532	20070103
	US 20080306018	A1	20081211	US 2008-160064	20080703
	US 7670840	B2	20100302		
	CN 101384273	A	20090311	CN 2007-80005791	20080818
	US 20100197774	A1	20100805	US 2010-700286	20100204
PRAI	US 2006-756502P	P	20060105		
	WO 2007-US24	W	20070103		
	US 2008-160064	A3	20080703		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ASSIGNMENT HISTORY FOR US 20080306018

LSUS RAD: 20080703
RAUP: 20081211
RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
PAO: CROCE, CARLO M. (DATE EXECUTED: 20080627)
CALIN, GEORGE A. (DATE EXECUTED: 20080616)
RAC: THE OHIO STATE UNIVERSITY, 1960 KENNY ROAD, COLUMBUS, OHIO 43210,
UNITED STATES
RAA: MACMILLAN SOBANSKI & TODD, LLC, ONE MARITIME PLAZA FIFTH FLOOR,
720 WATER STREET, TOLEDO, OH 43604-1619
MRN: 21195 MFN: 793 (5 Page(s))

LSUS RAD: 20090330
RAUP: 20090330
RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
PAO: THE OHIO STATE UNIVERSITY (DATE EXECUTED: 20090327)
RAC: THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION, 1216 KINNEAR ROAD,
COLUMBUS, OHIO 43212, UNITED STATES
RAA: MACMILLAN, SOBANSKI & TODD, LLC, 720 WATER STREET, ONE MARITIME
PLAZA, FIFTH FLOOR, TOLEDO, OH 43604
MRN: 22469 MFN: 445 (4 Page(s))

CA/HCA/ZCA**DISPLAY BIB LSUS (Patent) (cont'd)**

LSUS RAD: 20080703
 RAUP: 20100302
 RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
 PAO: CROCE, CARLO M. (DATE EXECUTED: 20080627)
 CALIN, GEORGE A. (DATE EXECUTED: 20080616)
 RAC: THE OHIO STATE UNIVERSITY, 1960 KENNY ROAD, COLUMBUS, OHIO 43210,
 UNITED STATES
 RAA: MACMILLAN SOBANSKI & TODD, LLC, ONE MARITIME PLAZA FIFTH FLOOR,
 720 WATER STREET, TOLEDO, OH 43604-1619
 MRN: 21195 MFN: 793 (5 Page(s))

LSUS RAD: 20090330
 RAUP: 20100302
 RAK: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
 PAO: THE OHIO STATE UNIVERSITY (DATE EXECUTED: 20090327)
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 COLUMBUS, OHIO 43212, UNITED STATES
 RAA: MACMILLAN, SOBANSKI & TODD, LLC, 720 WATER STREET, ONE MARITIME
 PLAZA, FIFTH FLOOR, TOLEDO, OH 43604
 MRN: 22469 MFN: 445 (4 Page(s))
 OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)

DISPLAY OSG

L1 ANSWER 1 OF 2 CA COPYRIGHT 2011 ACS on STN
 OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (21 CITINGS)
 UPOS.G Date last citing reference entered STN: 17 Jun 2011
 OS.G CAPLUS 2011:720785; 2011:145582; 2010:1528889; 2010:1345624;
 2010:564089; 2010:305677; 2009:1367821; 2009:425398; 2009:233307

DISPLAY IPC.TAB

L1 ANSWER 1 OF 2 CA COPYRIGHT 2011 ACS on STN

PI WO 2007081680

IPCI CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
A61N0001-30	(200601)	F	I	Core	US Human	20070719	O
A61K0038-00	(200601)	F	I	Core	US Human	20071227	O
A61K0038-00	(200601)	F	I	Advanced	US Human	20071227	O
C12Q0001-58	(200601)	L	I	Core	US Human	20071227	O
C12Q0001-58	(200601)	L	I	Advanced	US Human	20071227	O

IPCR CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
A61N0001-30	(200601)	F	I	Advanced	US Human	20070719	O

PI AU 2007205257

IPCI CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
A61K0038-00	(200601)	F	I	Core	US Human	20080129	O
A61K0038-00	(200601)	F	I	Advanced	US Human	20080129	O
C12Q0001-58	(200601)	L	I	Core	US Human	20080129	O
C12Q0001-58	(200601)	L	I	Advanced	US Human	20080129	O

IPCR CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
A61K0038-00	(200601)	F	I	Advanced	US Human	20080129	O
C12Q0001-58	(200601)	L	I	Advanced	US Human	20080129	O

PI CA 2635616

• • •

DISPLAY ALL (PRE-1907 JOURNAL RECORD)

ANSWER 1 CA COPYRIGHT 2004 ACS on STN

AN 0:419 CA

TI CIII. - A new synthesis of phloroglucinol

AU Jerdan, David Smiles

CS University Chemical Laboratory, Heidelberg, Germany

SO Journal of the Chemical Society, Transactions (1897) 1106-1114

CODEN: JCHTA3

DT Journal

LA English

CC 10 (Organic Chemistry)

AB Recent researches in the terpene series, and especially investigations into the nature of camphor, have led to the development of various formulae to represent the constitution of the latter. Especially prominent within the last few years have been the formulae proposed by Tiemann and others, in which camphor is represented as containing two variously substituted pentamethylene rings, which have three carbon atoms in common. The proposed formulae may also be described as consisting of a substituted hexamethylene ring in which two carbon atoms in the para position are united by single bonds to a seventh carbon atom. At the suggestion of the late Professor Victor Meyer, the author made various experiments with a view to the synthesis of a substance of analogous constitution. Although, unfortunately, the end in view was not attained, the experiments resulted in a new synthesis of phloroglucinol from ethylic acetonedicarboxylate, and thus added another to the many known methods of passing from the fatty to the aromatic series. Phloroglucinol itself has already been prepared synthetically from another member of the fatty series by Baeyer (Ber., 1885, 18, 3457) who, by heating the monosodium derivative of ethylic malonate, obtained the ethylic salt of phloroglucinoltricarboxylic acid. The ethereal salt, when melted with potash, yielded phloroglucinol.

IT Charcoal, bone

Crystallization

Etherification

Fractionation

Hydrazones

Hydrolysis

Lactones

Wood, pine

(new synthesis of phloroglucinol)

IT 64-17-5, Ethyl alcohol 64-19-7, Acetic acid 67-56-1, Methyl alcohol
67-66-3, Chloroform 71-43-2, Benzene 76-22-2, Camphor 100-63-0,
Phenylhydrazine 105-50-0, Ethyl acetonedicarboxylate 106-93-4,
Ethylene dibromide 107-07-3, Ethylene chlorhydrin 108-73-6,
Phloroglucinol 124-38-9, Carbon dioxide 141-82-2, Malonic acid
497-19-8, Sodium carbonate 513-77-9, Barium carbonate 7440-23-5,
Sodium 7647-01-0, Hydrogen chloride 7664-93-9, Sulfuric acid
7705-08-0, Ferric chloride 7726-95-6, Bromine 7783-89-3, Silver
bromate 8002-05-9, Petroleum 8032-32-4, Ligroin 17194-00-2, Barium
hydroxide 129874-08-4, Terpene

(new synthesis of phloroglucinol)

EXPAND in the CA Section Thesaurus (/CC)

=> E CERAMICS+ALL/CC

E1 477566 --> CERAMICS/CC

E2 1860 USE 17 CERAMICS, 1962 ONLY/CC

E3 9758 USE 21 CERAMICS, 1963-1966/CC

E4 460778 USE 57 CERAMICS, 1967 TO PRESENT/CC

***** END *****

CA/HCA/ZCA

=> E E4+ALL

```

E5      7054963  BT1  APPLIED/CC
E6      460778  --> 57 CERAMICS, 1967 TO PRESENT/CC
        NOTE THIS SECTION INCLUDES THE PREPARATION, COMPOSITION,
        ANALYSIS, PROPERTIES, AND USES OF GLASS, CERAMICS,
        GLAZES, ENAMELS, REFRACTORIES, CLAY PRODUCTS,
        ABRASIVES, AND CARBON PRODUCTS. ORGANIC GLASSES ARE
        INCLUDED IN SECTION 37. STUDIES OF RAW MATERIALS ARE
        INCLUDED IN SECTION 53 WHEN THE INTEREST IS OF
        GEOLOGICAL SIGNIFICANCE AND ULTIMATE USE IS
        INCIDENTAL. CERMETS CONTAINING MORE THAN ONE PERCENT
        METAL ARE INCLUDED IN SECTION 56. SOME SPECIFIC USES
        AND PROPERTIES OF CERAMICS ARE COVERED IN OTHER
        SECTIONS (E.G., 63, 65, 75, AND 76).

E7      1860    OLD  17 CERAMICS, 1962 ONLY/CC
E8      496     OLD  19 GLASS AND CERAMICS, 1908-1909/CC
E9      4422    OLD  19 GLASS AND CERAMICS, 1911-1920/CC
E10     1044    OLD  19 GLASS AND POTTERY, 1906-1907/CC
E11     46601   OLD  19 GLASS, CLAY PRODUCTS, REFRACTORIES, AND ENAMELED
        METALS, 1921-1961/CC
E12     252     OLD  20 GLASS AND CERAMICS, 1910 ONLY/CC
E13     9758    OLD  21 CERAMICS, 1963-1966/CC
E14     0       NT1  57-0 CERAMICS, 1972 TO PRESENT, REVIEWS/CC
E15     0       NT1  57-1 CERAMICS, 1972 TO PRESENT, GLASS (OXIDE AND
        NONOXIDE GLASSES)/CC
E16     0       NT1  57-2 CERAMICS, 1972-1981, CLAYS AND CLAY PRODUCTS/CC
E17     0       NT1  57-2 CERAMICS, 1982 TO PRESENT, CERAMICS/CC
E18     0       NT1  57-3 CERAMICS, 1972-1981, GLAZES/CC
E19     0       NT1  57-3 CERAMICS, 1982 TO PRESENT, PORCELAIN/CC
E20     0       NT1  57-4 CERAMICS, 1972-1981, WHITEWARE/CC
E21     0       NT1  57-4 CERAMICS, 1982 TO PRESENT, GLAZES AND GLASSY
        COATINGS/CC
E22     0       NT1  57-5 CERAMICS, 1972-1981, REFRACTORIES/CC
E23     0       NT1  57-5 CERAMICS, 1982 TO PRESENT, CLAYS AND CLAY
        PRODUCTS/CC
E24     0       NT1  57-6 CERAMICS, 1972-1981, ABRASIVES/CC
E25     0       NT1  57-6 CERAMICS, 1982 TO PRESENT, REFRACTORIES/CC
E26     0       NT1  57-7 CERAMICS, 1972-1981, OTHER/CC
E27     0       NT1  57-7 CERAMICS, 1982 TO PRESENT, ABRASIVES/CC
E28     0       NT1  57-8 CERAMICS, 1982 TO PRESENT, CARBON PRODUCTS/CC
E29     0       NT1  57-9 CERAMICS, 1982 TO PRESENT, OTHER/CC
***** END *****

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EXPAND in /CT Thesaurus for the CA Lexicon

=> E SUNFLOWER+ALL/CT

E1 7005 --> Sunflower/CT
HNTÉ Valid heading during volumes 1-135 (1907-2001) only.
E2 6480 NEW Helianthus annuus/CT
***** END *****

=> E AZO DYES+ALL/CT

E1 14055 BT3 Chemical compounds/CT
E2 56744 BT2 Organic compounds/CT
E3 5267 BT1 Azo compounds/CT
E4 29897 BT3 Materials/CT
E5 11379 BT2 Coloring materials/CT
E6 130393 BT1 Dyes/CT
E7 8782 --> Azo dyes/CT
HNTÉ Valid heading during volume 126 (1997) to
present.
E8 12084 OLD Dyes, azo/CT
E9 UF Azo dye/CT
E10 UF Azodye/CT
E11 UF Azodyes/CT
E12 0 NT1 1-(Phenylazo)-2-naphthol/CT
E13 0 NT1 4-(Dimethylamino)azobenzene/CT
E14 0 NT1 4-Amino-4'-nitroazobenzene/CT
E15 0 NT1 4-Aminoazobenzene/CT
E16 0 NT1 Amaranth (dye)/CT
E17 0 NT1 C.I. Acid Red 14/CT
E18 0 NT1 Carmine 6B/CT
E19 0 NT1 Congo red/CT
E20 0 NT1 Disperse Red 1/CT
E21 0 NT1 Eriochrome Black T/CT
E22 0 NT1 Methyl orange/CT
E23 0 NT1 Methyl red/CT
E24 0 NT1 New Coccine/CT
E25 0 NT1 Pigment Yellow 12/CT
E26 0 NT1 Pigment Yellow 128/CT
E27 976 NT1 Reactive azo dyes/CT
E28 0 NT2 4-(2-Sulfatoethylsulfonyl)aniline/CT
E29 0 NT1 Sunset Yellow/CT
E30 0 NT1 Tartrazine/CT
E31 0 NT1 Trypan Blue/CT
E32 251 RT Formazans/CT
E33 40026 RT Pigments, nonbiological/CT
E34 619 RT Stains, coloring materials/CT
E35 RTCS 2,5-Dimethoxyaniline/CT
E36 RTCS 4-Phenylazophenol/CT
***** END *****

CA/HCA/ZCA**EXPAND in /RL Thesaurus**=> **E PREP+ALL/RL**

```

E1      5299444  -->  PREP/RL
E2      5299444      Preparation/RL
          NOTE Vol. 1 (1907) to present - Assigned to a substance in
          studies of the synthesis of the substance as a
          distinct chemical entity, formed with preparative
          intent, via a chemical, biochemical, or nuclear
          reaction. The recovery, purification, separation, or
          other intentional formation with preparative intent of
          a desired substance also receives a PREP role.

E3      85501      NT1  BMF/RL
E4      190130     NT1  BPN/RL
E5      64754      NT1  BYP/RL
E6      2933       NT1  CPN/RL
E7      713210     NT1  IMF/RL
E8      173903     NT1  PNU/RL
E9      375278     NT1  PUR/RL
E10     2529014    NT1  SPN/RL
***** END *****

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EXPAND in the Company Name (/CO) Thesaurus Search Aid=> **E DOW CHEMICAL+NAME/CO**

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E1      16104      NAME DOW CHEMICAL CO/CO
E2      83         -->  DOW CHEMICAL/CO
***** END *****

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=> **E E1+ALL**

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E3      0          CNUM CAS1000235/CO
E4      16104     -->  DOW CHEMICAL CO/CO
          NOTES 1886: Joy Morton & Co. established
          1897: Dow Chemical Co. incorporated
          1898: Firma Johann Haltermann founded
          1900: Midland Chemical Co. merged into Dow Chemical Co.
          1907: Rohm & Haas Co. founded
          1910: Joy Morton & Co. renamed Morton Salt Co.
          1917: Union Carbide & Carbon Corp. incorporated
          1920: Carbide and Carbon Chemicals Corp. established
          1933: Ethyl Dow Co. formed
          1940: Carlisle Chemical Co. founded
          1942: Dow Chemical of Canada organized
          1955: Carlisle Chemical Co. acquired Advance Solvents
          & Chemical Co.
          1957: Shipley Co. founded
          1957: Union Carbide & Carbon Corp. renamed Union
          Carbide Corp.
          1970: Rodel Inc. established
          1980: Carlisle Chemical Co. renamed Carstab Corp.
          1989: DowElanco formed
          1989: Morton International, Inc. acquired Carstab Corp.
          1992: Rohm & Haas Co. acquired Shipley Co.
          1995: Union Carbide Corp. acquired Shell Polypropylene
          Company
          1997: ChiroTech Technology Ltd. established
          1997: Dow Chemical Co. acquired full ownership of Dow
          Mitsubishi Chemical Ltd.
          1998: Dow Chemical Co. acquired Hampshire Chemical
          Corp.
          1998: Dow Chemical Co. acquired Mycogen Corp.
          1998: Dow Chemical Co. acquired Sentrachim Ltd.
          Integrated

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EXPAND in the Company Name (/CO) Thesaurus Search Aid (cont'd)

1999: Dow Chemical Co. acquired Angus Chemical Company
1999: Rohm & Haas Co. acquired LeaRonal, Inc.
1999: Rohm & Haas Co. acquired Morton International, Inc.
2001: Dow-Reichhold Specialty Latex LLC formed
2001: Dow Chemical Co. acquired ChiroTech Technology Ltd.
2001: Dow Chemical Co. acquired Haltermann AG
2001: Dow Chemical Co. acquired Michael Cotts Chemicals
2001: Dow Chemical Co. acquired Union Carbide Corp.
2004: Shipley Co. and Rodel Inc. merged to form Rohm & Haas Electronic Materials
2006: Dow Chemical Co. acquired Zhejiang Omex Environmental Engineering Ltd
2007: Dow Chemical Co. acquired Wolff Walsrode AG
2008: Dow-Reichhold Specialty Latex LLC dissolved
2009: Dow Chemical Co. acquired Rohm & Haas

E5 2 RT1 ADMIRAL EQUIP CO/CO
E6 40 RT1 ADVANCE SOLVENTS CHEMICAL CORP/CO
E7 32 RT1 AGRIGENET ADV SCI CO/CO
E8 33 RT1 AGRIGENET CORP/CO
E9 50 RT1 AGRIGENETICS INC/CO
E10 14 RT1 AGRIGENETICS RESEARCH ASSOCIATES LTD/CO
E11 18 RT1 AMERCHOL CORP/CO
E12 19 RT1 AMERCHOL CORPORATION/CO
E13 9 RT1 ANGUS CHEM CO/CO
E14 35 RT1 ANGUS CHEMICAL CO/CO
E15 45 RT1 ANGUS CHEMICAL COMPANY/CO
E16 13 RT1 ANGUS CHEMIE GMBH/CO
E17 10 RT1 AWD TECHNOL INC/CO
E18 8 RT1 AWD TECHNOLOGIES INC/CO
E19 13 RT1 BENFIELD CORP/CO
E20 2 RT1 BORIDE PRODUCTS INC/CO
E21 65 RT1 BUNA SOW LEUNA OLEFINVERBUND G M B H/CO
E22 50 RT1 BUNA SOW LEUNA OLEFINVERBUND GMBH/CO
E23 68 RT1 BUSHY RUN RES CENT/CO
E24 11 RT1 CARBIDE AND CARBON CHEM CO/CO

● ● ●

E353 12 RT1 UNION CARBIDE TECH CENT/CO
E354 9 RT1 UNION CARBIDE TECHNICAL CENTER/CO
E355 1 RT1 UNION CARBIDE THAILAND LTD/CO
E356 6 RT1 UNION CARBIDE U K LTD/CO
E357 6 RT1 UNION CARBIDE UK LTD/CO
E358 2 RT1 WESTERN CARBIDE CORP/CO
E359 12 RT1 WOLFF CELLULOSICS G M B H CO K G/CO
E360 16 RT1 WOLFF CELLULOSICS GMBH CO KG/CO
E361 242 RT1 WOLFF WALSRODE A G/CO
E362 115 RT1 WOLFF WALSRODE AG/CO
E363 21 RT1 WOLFF WALSRODE AKTIENGESELLSCHAFT/CO
E364 1 RT1 WOLFF WALSRODE GMBH CO KG/CO
E365 11 RT1 ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING CO LTD/CO
E366 4 RT1 ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING LIMITED/CO
E367 13 RT1 ZHEJIANG OMEX ENVIRONMENTAL ENGINEERING LTD/CO
E368 110 JV1 NITTA HAAS INC/CO

NOTES 1983: Rodel Inc. and Nitta Corp. formed joint venture, Rodel Nitta Co
2004: Rodel Nitta Co. renamed Nitta Haas Inc.
NOTES 1983: Rodel Inc. and Nitta Corp. formed joint venture, Rodel Nitta Co
2004: Rodel Nitta Co. renamed Nitta Haas Inc.

E369 13 JV2 NITTA HAAS INCORPORATED/CO
E370 45 JV2 RODEL NITTA CO/CO
***** END *****

EXPAND in the International Patent Classification (IPC) Thesaurus

=> E A23G001-00/IPC

E1	12070	32	A23G/IPC
E2	2658		A23G0001/IPC
E3	2121	25 -->	A23G0001-00/IPC
E4	170	2	A23G0001-02/IPC
E5	190	10	A23G0001-04/IPC
E6	1		A23G0001-05/IPC
E7	21	2	A23G0001-06/IPC
E8	3	2	A23G0001-08/IPC
E9	1		A23G0001-09/IPC
E10	48	2	A23G0001-10/IPC
E11	15	2	A23G0001-12/IPC
E12	3	2	A23G0001-14/IPC

=> E E3+ALL

E13	0	BT4	A/IPC SECTION A - HUMAN NECESSITIES
E14	0	BT4	FOODSTUFFS; TOBACCO/IPC
E15	0	BT3	A2/IPC
E16	0	BT2	A23/IPC FOODS OR FOODSTUFFS; THEIR TREATMENT, NOT COVERED BY OTHER CLASSES Note (1) Attention is drawn to the following places: - Polysaccharides, derivatives thereof - Animal or vegetable oils, fats, fatty substances or waxes - Biochemistry, beer, spirits, wine, vinegar - Sugar industry. (2) Processes using enzymes or micro-organisms in order to: are further classified in subclass C12S. - liberate, separate or purify a pre-existing compound or composition, or to - treat textiles or clean solid surfaces of materials
E17	12070	BT1	A23G/IPC COCOA; COCOA PRODUCTS, e.g. CHOCOLATE; SUBSTITUTES FOR COCOA OR COCOA PRODUCTS; CONFECTIONERY; CHEWING GUM; ICE-CREAM; PREPARATION THEREOF Note (1) In this subclass, the following term is used with the meaning indicated: - "ice-cream" includes any edible frozen or congealed semi-liquid or pasty substance, e.g. slush-ice. (2) In this subclass, subject matter which cannot be completely classified in a single one of the main groups should be classified in each relevant main group. -----
E18	2121	-->	A23G0001-00/IPC Cocoa; Cocoa products, e.g. chocolate; Substitutes therefor (kitchen equipment for cocoa preparation A47J, e.g. apparatus for making beverages A47J0031-00) CORE VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E19	170	NT1	A23G0001-02/IPC . Preliminary treatment, e.g. fermentation of cocoa (machines for roasting cocoa A23N0012-00) ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E20	190	NT1	A23G0001-04/IPC . Apparatus specially adapted for manufacture or treatment of cocoa or cocoa products (machines for roasting cocoa A23N0012-00; crushing or grinding

EXPAND in the International Patent Classification (IPC) Thesaurus (cont'd)

apparatus in general B02C)
ADVANCED
VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E21 21 NT2 A23G0001-06/IPC
. . Apparatus for preparing or treating cocoa beans or nibs
ADVANCED
VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E22 3 NT2 A23G0001-08/IPC
. . Cocoa butter presses (presses for squeezing out liquid from liquid-containing material in general B30B)
ADVANCED
VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
• • •
E43 147 NT3 A23G0001-48/IPC
. . . containing plants or parts thereof, e.g. fruits, seeds, extracts (containing gums A23G0001-40)
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E44 45 NT2 A23G0001-50/IPC
. . characterised by shape, structure or physical form, e.g. products with an inedible support (liquid products, solid products in the form of powders, flakes or granules for making liquid products A23G0001-56)
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E45 33 NT3 A23G0001-52/IPC
. . . Aerated, foamed, cellular or porous products
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E46 113 NT3 A23G0001-54/IPC
. . . Composite products, e.g. layered, coated, filled
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E47 482 NT2 A23G0001-56/IPC
. . Liquid products; Solid products in the form of powders, flakes or granules for making liquid products, e.g. for making chocolate milk
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
***** END *****

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