

Chemical Abstracts Plus (CAplus<sup>sm</sup>) is the most current and most comprehensive chemistry bibliographic database available from Chemical Abstracts Service (CAS). CAplus covers international journals, patents, patent families, technical disclosures, technical reports, books, conference proceedings, dissertations, electronic-only journals, and web preprints from all areas of chemistry, biochemistry, chemical engineering, and related sciences from 1907 to the present.

Cited references are included for journals, conference proceedings, and basic patents from the US, EPO, WIPO, and German patent offices added to the CAS databases from 1997 to the present. Also included are patent examiners from British and French basic patents (2003 to the present) and Canadian patents (2005 to the present).

Bibliographic information and available abstracts for the articles from nearly 1,500 key chemical journals are added within one week of journal receipt. CAplus is updated daily with new bibliographic records and weekly with indexing.

CAplus contains thesauri in the following fields: Classification Code (/CC), Corporate Name(/CO), Controlled Term (/CT), F-Term (/FTERM), International Patent Classification (/IPC), National Patent Classification Current (/NCL), National Patent Classifications Issue (/INCL), and Role (/RL).

## SUBJECT COVERAGE

All areas of chemistry and chemical engineering. The major subdivisions are:

- Applied Chemistry and Chemical Engineering
- Biochemistry
- Macromolecular Chemistry
- Organic Chemistry
- Physical, Inorganic, and Analytical Chemistry

## SOURCES

- Cover-to-cover coverage of nearly 1,500 key chemical journals from October 1994 to the present
- Nearly 9,500 journals monitored
- Patents  
([www.cas.org/expertise/cascontent/capplus/patcoverage/](http://www.cas.org/expertise/cascontent/capplus/patcoverage/))
- Technical disclosures
- Conference Proceedings  
([www.cas.org/expertise/cascontent/capplus/confcov.html](http://www.cas.org/expertise/cascontent/capplus/confcov.html))
- Technical reports
- Books
- Dissertations
- Reviews
- Meeting abstracts
- Web preprints
- Electronic-only journals

## FILE DATA

- 1907 to the present plus over 128,000 pre-1907 journal and patent records
- more than 29 million records (03/08)
- Updated daily with about 3,000 citations
- Updated weekly with indexing for about 14,000 records
- Automatic current awareness searches (SDIs) may be run daily, weekly or biweekly (weekly is the default)
- Automatic Table-of-Contents service (CAplus TOC) is available for new issues of nearly 1,500 key journals
- Automatic crossfile current-awareness searches (SDI XFILE or SMART) using CAS Registry File search profile are available and are run weekly or biweekly (weekly is the default)

## PRODUCER

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## DATABASE REPRESENTATIVES

See: <http://www.stn-international.de/service/stnagents/stnagent.html>

## USER AIDS

- Search aids are available on the web: [www.cas.org/support/stngen/index.html](http://www.cas.org/support/stngen/index.html)
- STN User Documentation Order Form lists available STN documentation: [www.cas.org/support/stngen/stdoc/index.html](http://www.cas.org/support/stngen/stdoc/index.html)
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

## SEARCH AND DISPLAY FIELDS

### General Search Fields

Search Field Name	Search Code	Search Examples	Display Code
Basic Index (contains single words from the title (TI), supplementary term (ST), index term (IT), and abstract (AB) fields, as well as CAS Registry Numbers) 1)	None or /BI	S 50-21-5 S TRANSGENIC COTTON/IA S ?FLUOROCARBON? S (WATER (S) OIL)/BI	AB, TI, IT, ST
Abstract 1)	/AB	S (WATER(1W)OIL)/AB S LD50/AB S HIGH TEMP?/AB S (HIV(S)TREAT?)/AB	AB
Accession Number	/AN	S 1966:508061/AN	AN, DN
Author (Inventor)	/AU	S LEHNINGER A?/AU S (DUCHEYNE P? (S) EDITOR#)/AU S ANON/AU	AU, IN
Classification Code 2,3) (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
Corporate Name 3)	/CO	S DOW CHEMICAL/CO	CO, CS, PA
Corporate Source 2) (organization name, patent assignee)	/CS	S DOW/CS S DOW CHEM MIDLAND/CS S "DOW CORNING"?/CS	CS, PA
Controlled Term 3,4)	/CT	S ANTITUMOR AGENTS/CT	CT, IT
Controlled Word 4)	/CW	S OPTIC?/CW	CT, IT
Country of Author	/CYA	S USA/CYA	CYA, CS, PA
Document Number	/DN	S 41:39650/DN	DN
Document Type (code and text)	/DT (/TC)	S P/DT S PATENT/DT S REVIEW/DT S NEWS ANNOUNCEMENT/DT	DT
Entry Date 5)	/ED (/UP)	S ED>20060211 S ED>FEB 11, 2006	ED
Field Availability	/FA	S L1 AND ABS/FA	not displayed
File Segment	/FS	S BIO/FS AND L2	FS
Issue Number of Publication 5,6)	/IS	S 1-3/IS AND 32/VL	SO
International Standard (Document Number (contains CODEN, ISBN, and ISSN) 7)	/ISN	S JOCRAM/ISN S 0021-9673/ISN	ISN, SO

- 1) In addition to right truncation, left and simultaneous left and right truncation are available in this field. At least 4 characters need to be used for the length of the stem.
- 2) Search with implied (S) proximity is available in this field.
- 3) A thesaurus is available in this field.
- 4) 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 singlewords in the /IT and /BI fields.
- 5) Numeric search field that may be searched with numeric operators or ranges.
- 6) Content of this field is available only for records from 1963 to the present.
- 7) ISBNs are included only for records added since December 17, 2001.

## SEARCH AND DISPLAY FIELDS

### General Search Fields (continued)

Search Field Name		Search Code	Search Examples	Display Code
Index Term	1,8)	/IT	S 75-28-5(2W)CRACKING OF/IT S DETN OF/IT	IT
Journal Title		/JT	S J CHROMATOGR/JT S COMPT REND?/JT S IP.COM JOURNAL/JT	JT, SO
Language (ISO 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	11)	/OS	S L1 AND MARPAT/OS	OS
Publication Date	5)	/PD	S PD>20010400 S JUNE 1992-SEPT 1993/PD	PI, SO
Publisher	2)	/PB	S ACADEMIC/PB	PB
Publisher Item Identifier	11)	/PUI	S "S 0014-5793(96)01227-6"/PUI	PUI
Publication Year	5)	/PY	S 1947-1949/PY	PI
Role	5,11)	/RL	S 99685-96-8 (L) SPN/RL S 99685-96-8/SPN S FULLERENES (L) SPN/RL S FULLERENES/SPN	RL, IT
Source (contains publication title, date, publisher, conference title, meeting date, volume, issue, pagination, CODEN, ISBN, ISSN, URL, and access to prepublication articles in ACS journals)	12)	/SO	S INORG CHEM/SO S JOCRAM/SO S 0021-9673/SO S AM CERAM SOC/SO S 1992/SO S IP COM JOURNAL/SO S ACS ASAP/SO	SO
Supplementary Term	1,11)	/ST	S LIVER METAB?/ST	ST
CA Section Cross Reference (number and title)	2,11)	/SX	S 1/SX S ANALYTICAL/SX S RADIATION CHEMISTRY/SX	CC
Title	1)	/TI	S LIVER/TI S SPIN SPIN/TI S (METABOLISME(S)VEGETAUX)/TI S ?ACTION?/TI AND THERMAL/TI	TI
Update Date	5)	/UP	S L1 AND UP>20060400 S UP>APRIL 1, 2006	not displayed
Uniform Resource Locator	11)	/URL	S "HTTP://WWW.BIOSCIENCE.ORG/ BIOSCIENCE/1996/V1/D/CHINTALL/ HTMLS/324-339.HTM"/URL	
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) In addition to right truncation, simultaneous left and right truncation are available in this field. At least 4 characters need to be used for the length of the stem.
- 2) Search with implied (S) proximity is available in this field.
- 3) A thesaurus is available in this field.
- 5) Numeric search field that may be searched with numeric operators or ranges.
- 6) Content of this field is available only for records from 1963 to the present.
- 8) Stopwords are not removed from this field.
- 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.
- 11) Content of this field is available only for records from 1967 to the present except for the PREP (Preparation) role that has been assigned back to 1907.
- 12) Searching ACS ASAP/SO gives access to the ACS journals references prior to those articles being published in the printed ACS journals. Starting on July 29, 1998 the bibliographic data and the abstracts for ACS documents are added to CAPLUS records as soon as they are available on the ACS Publications web site (pubs.acs.org). Once the document receives the volume, issue, and pagination, the record is updated with this bibliographic information in the Source (SO) field and the ACS ASAP notation is removed. ISBNs are included only for records added since December 17, 2001.

## SEARCH AND DISPLAY FIELDS

## Patent Search Fields

Search Field Name		Search Code	Search Examples	Display Code
Application Country (WIPO code and text)		/AC	S DE/AC	AI, PI
Application Country, Basic (WIPO code and text)		/AC.B	S DE/AC.B	AI, PI
Application Date	1,2)	/AD	S AD>19920100 S AD>JANUARY 20, 1993	AI, PI
Application Date, Basic	1,2)	/AD.B	S 19970220/AD.B	AI, PI
Application Number	2,3)	/AP	S EP83-304630/AP S 83EP-0304630/AP S JP87-10001/AP S 87JP-0010001/AP	AI, PI AI, PI
Application Number, Basic	2,3)	/AP.B	S JP87-10001/AP.B	AI, PI
Application Year	1,2)	/AY	S 1990-1992/AY	AI, PI
Application Year, Basic	1,2)	/AY.B	S AY.B>1997	AI, PI
Country Number Count	1)	/CYC (/CY.CNT)	S L1 AND 4-5/CYC	CY.CNT
Designated States (code and text)	4)	/DS	S FR/DS S R DE/DS	DS, PI
Designated States, Basic (code and text)	4)	/DS.B	S DE/DS.B	DS, PI
European Classification	5)	/ECLA (/EPC, /EPCLA)	S C01B003/ECLA S C01B003/00D2/ECLA	CLASS,ECLA, EPC,EPCLA
Family Accession Number		/FAN	S 1998:98369/FAN	FAN
Family Accession Number Count	1)	/FAN.CNT	S L1 AND FAN.CNT>1	FAN.CNT
File Forming Terms (Patent Classifications from the Japanese Patent Office)	6)	/FTERM (/FTCLA, /JPCLA)	S 4C002/BB03/FTERM S 4C002/FTERM	CLASS, FTERM,FTCLA, JPCLA
International Patent Classification (includes Main and Secondary IPC)	7)	/IC	S C07C/IC S C07C015/IC S C07C015-04/IC	IC, CLASS
IPC, Additional (Supplementary)	4,7)	/ICA	S B01J/ICA S B01J027/ICA S CYANOGEN/ICA	ICA, CLASS
IPC, Index (Complementary)	4,7)	/ICI	S A61K/ICI S A61K031/ICI S AMMONIA/ICI	ICI, CLASS
IPC, Main	4,7)	/ICM	S A01N/ICM S A01N025/ICM S AMMONIA/ICM	ICM, CLASS
IPC, Secondary	4,7)	/ICS	S C02F/ICS S C02F001/ICS S AMMONIA/ICS	ICS, CLASS
Inventor		/IN	S PATTON JERRY R/IN	IN
National Patent Classification, Issue	8)	/INCL	S 433228000/INCL S 433/227-433/229/INCL S 433/228.000/INCL	INCL,CLASS

- 1) Numeric search field that may be searched with numeric operators or ranges.
- 2) Data are available from 1962 (volume 56) to the present.
- 3) Either STN format or Derwent format may be used.
- 4) Content of this field available only for records from 1967 to the present.
- 5) Content of this field is available only for records from 1993 to the present.
- 6) Content of this field is available only for records from January 2004 to the present. A thesaurus is available in this field.
- 7) This field contains the IPCs only for the basic patents published with pre-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.
- 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 /NCL field is not a numeric field and may not be searched using numeric operators.

## SEARCH AND DISPLAY FIELDS

### Patent Search Fields (continued)

Search Field Name	Search Code	Search Examples	Display Code
International Patent Classification, ALL 9)	/IPC	S A61K/IPC	IPC, CLASS
IPC, Action Date 1)	/IPC.ACD	S A61K0031-473/IPC	IPC.TAB
International Patent Classification, Basic Patent	/IPC.B	S 20050101/IPC.ACD	IPC.B
IPC, Keyword Terms	/IPC.KW	S G01N0001-28/IPC.B	
IPC, Version	/IPC.VER	S G01N000128/IPC(S)BASIC/IPC.KW	IPC.TAB
IPC, Initial	/IPCI	S 6/IPC.VER	IPC.TAB
IPC, Reclassified	/IPCR	S H01L0023-29/IPCI	IPCI, CLASS
International Patent Classification, Main Group, Range Searchable, Version 1-7 1,4)	/MGR	S C08L0061-00/IPCR	IPCR, CLASS
National Patent Classification, Current 10)	/NCL	S 10-20/MGR (S) C07C/IC	IC, CLASS
National Patent Classification, Range Searchable 1)	/NCLR	S 106035000/NCL	NCL, CLASS
Patent Assignee 11)	/PA	S 106/035.000/NCL	
Patent Country (WIPO code and text)	/PC	S 433/227-433/229/NCL	
Patent Country, Basic (WIPO code and text)	/PC.B	S ZEOLITES/NCL	
Publication Date, Basic 1)	/PD.B	S 106020000-106040000/NCLR	NCL, CLASS
Patent Kind Code 4)	/PK	S PFIZER/PA	PA
Patent Kind Code, Basic 4)	/PK.B	S PFIZER CORP/PA	
Patent Number 3)	/PN	S BADISCHE ANILIN/PA OR BASF/PA	
Patent Number, Basic 3)	/PN.B	S WO/PC	PI
Patent Number Count 1)	/PNC	S JP/PC.B	PI
Priority Country (WIPO code and text)	/PRC	S EP536930/PN	
Priority Country, Basic (WIPO code and text)	/PRC.B	S EP-536930/PN	
Priority Date 1,2)	/PRD	S WO8402426/PN	
Priority Date, Basic 1,2)	/PRD.B	S JP04000104/PN	
		S JP62000031/PN	
		S IP6243D/PN	
		S JP60008341/PN.B	PI
		S 3/PNC	PN.CNT
		S US/PRC	PRAI
		S US/PRC.B	PRAI
		S PRD>19910600	PRAI
		S June 20 1991/PRD	
		S PRD.B>19940100	PRAI

- 1) Numeric search field that may be searched with numeric operators or ranges.
- 2) Data are available from 1962 (volume 56) to the present.
- 3) Either STN format or Derwent format may be used.
- 4) Content of this field available only for records from 1967 to the present.
- 9) 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.
- 10) 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.
- 11) Search with implied (S) proximity is available in this field.

**SEARCH AND DISPLAY FIELDS**  
**Patent Search Fields (continued)**

Search Field Name	Search Code	Search Examples	Display Code
Priority Number 2,9,11)	/PRN	S US91-635890/PRN S 91US-0635890/PRN	PRAI
Priority Number, Basic 2,9,11)	/PRN.B	S US91-721765/PRN.B	PRAI
Priority Year 1,2)	/PRY	S 1990-1992/PRY	PRAI
Priority Year, Basic 1,2)	/PRY.B	S 1997/PRY.B	PRAI
Publication Year, Basic 1)	/PY.B	S 1990-1991/PY.B	PI
International Patent Classification, Range Searchable, Version 1-7 1,4)	/SGR	S SGR=>30000 (S) C0031/IC	PI
Update Date, Maximum (contains /UP and /UPP) 1,4)	/UPM	S L1 AND UPM>=20040400	PI
Update Date Patent Family 1,4)	/UPP	S US5837509/PN AND UPP>19990100	PI

- 1) Numeric search field that may be searched with numeric operators or ranges.
- 2) Data are available from 1962 (volume 56) to the present.
- 4) Content of this field available only for records from 1967 to the present.
- 9) Either STN format or Derwent format may be used.
- 11) U.S. provisional priority numbers are searched only with the P appended, e.g., US1999-121903P/PRN.

**Super Search Fields 1)**

Search Field Name	Search Code	Fields Searched	Search Examples	Display Codes
Application Number Group 2,3)	/APPS	/AP, /PRN	S DE84-3400052/APPS S 84DE-3400052/APPS	AI, PI PRAI
Application Number Group, Basic 2,3)	/APPS.B	/AP.B, /PRN.B	S DE84-3400052/APPS.B	AI, PI, PRAI
IPC of the Basic Patent (Old version of the /IPC super search field)	/IPC.OLD	/IC, ICA, ICI	S A01B/IPC.OLD S A01B001/IPC.OLD	IC, ICA ICI
Patent Number Group 2)	/PATS	/PN	S EP536930/PATS S EP-536930/PATS S WO8402426/PATS S JP04000104/PATS	PI, SO
Patent Number Group, Basic 2)	/PATS.B	/PN.B	S WO9850074/PATS.B	PI, SO
Patent Countries	/PCS	/PC,/DS	S DE/PCS	DS, PI
Patent Countries, Basic	/PCS.B	/PCS.B	S AT/PCS.B	DS, PI

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

**Cited References Search Fields**

Search Field Name	Search Code	Search Examples	Display Code
Cited Reference Accession Number in CAPLUS	/RAN.CAPLUS	S 1995:998201/RAN.CAPLUS	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 (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
Citing Document Reference Count 1)	/RE.CNT (/REC)	S REC>0 S 1-20/RE.CNT	RE.CNT
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 Series Issue Number	/RIS	S (2 OR 3)/RIS	RE
Cited Reference Patent Country Code	/RPC	S DE/RPC	RE
Cited Reference Page Number (first)	/RPG	S 200/RPG	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 Source Information (contains year, volume, issue, page, and publication title) 2)	/RSO	S (MOL AND BIOL AND 1997)/RSO	RE
Cited Reference Series Volume Number	/RVL	S (3 OR 4)/RVL	RE
Cited Reference Work (Publication Title)	/RWK	S CANCER RES/RWK	RE

- 1) Numeric search field that may be searched with numeric operators or ranges.
- 2) Search with implied (S) proximity is available in this field.

**Registry Search Fields**

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

To suppress the automatic REG1stRY processing when searching CAS Registry Numbers in CAplus, 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 CAplus 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 commands 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 Term (BT, SELF)	E 1 PHARMACOLOGY, 1982 TO PRESENT+BT/CC
CUR	Current Terms (SELF, CUR)	E 1 PHARMACODYNAMICS, 1972-1981+CUR/CC
HIE	Hierarchy Term (Broader and Narrower Term) (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 Term (catchwords) (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 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 (nonpreferred terms or sections)
USE	Use Term (preferred terms)

### Corporate Name (/CO) Thesaurus Search Aid

The Corporate Name thesaurus search aid is available in the /CO field with the most frequently occurring major corporate names for records from 1907 to the present.  
All Relationship Codes may be used with both the SEARCH and EXPAND commands 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	E BAYER AG+JV/CO
NAME	Highest level corporate name information (NAME, SELF, NOTE, RT, JV)	E ANGUS CHEMICAL COMPANY+NAME/CO
NOTE	Note (SELF, NOTE)	E ANGUS CHEMICAL COMPANY+NOTE/CO
RT	Related term (SELF, RT, NAME, NOTE)	E CANON INC+RT/CO

### Field Descriptors for the /CO Thesaurus Search Aid

Code	Description
--->	SELF
NAME	Preferred name for the highest level corporate name
CNUM	CAS Assigned Number to identify each corporate family
JV	Joint Venture
NOTE	Note associated with the term
RT	Related Term

### Controlled Term (/CT) Thesaurus for the CA Lexicon

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 commands in the /CT thesaurus.

Code	Content	Examples
ALL	All Associated Terms except for LT terms (BT, HN, NOTE, UF, USE, OLD, NEW, NT, RT, RTECS)	E AZO DYES+ALL/CT
BT	Broader Terms (BT, SELF, HN)	E BRAIN+BT/CT
HIE	Hierarchy (Broader and Narrower Term Terms) (BT, SELF, NT)	E TRITERPENES+HIE/CT
HN	History Note (HN)	E DYES+HN/CT
KT	Keyword Term (catchwords) (SELF, KT)	E PHOTOLYSIS+KT/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 NEOPLASM INHIBITORS+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)	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 (Preferred 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 Term
LT	Linking Term (index heading modifying term)
NEW	New Term (replace OLD term)
NOTE	Indexing Term
NT	Narrower Term
OLD	Old Term (replaced by NEW term)
RT	Related Term
RTCS	Related Chemical Substance Term
UF	Used For
USE	Use

### F-Term (/FTERM) 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	Examples
ALL BRO(n) BT HIE NEXT(n) NT PREV(n) TI	All Associated Terms (BT, SELF, TI, NT) Next n F-Terms and previous n F-Terms Broader Terms (BT, SELF) Hierarchy (BT, SELF, NT) Next n F-Terms Narrower Terms (SELF, NT) Previous n F-Terms Complete Title of the Term	E 4K001/AA16+ALL/FTERM E 4K001/AA20+BRO3/FTERM E 4K001/AA25+BT/FTERM E 4K001/AA14+HIE/FTERM E 4K001/AA16+NEXT5/FTERM E 4K001+NT/FTERM E 5K002+PREV3/FTERM E 4K001/AA07+TI/FTERM

### Field Descriptors for the F-Term Thesaurus

Code	Description
---> BT NT TI	SELF Broader Term Narrower term Title

### 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. The IPC thesauri are available for records from 1967 to the present.

Code	Content	Examples
ADVANCED (ADV) ALL BRO (MAN) BT COR (CORE) ED HIE  INDEX KT NEXT NT PREV RT (SIB) TI	Advanced Terms (SELF, ADVANCED) All Associated Terms (BT, SELF, NT, RT) Complete Class Broader Terms (SELF, BT) Core Terms (SELF, CORE) Complete title of the SELF term and IPC manual edition Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT)  Complete title of the SELF term Keyword Terms (catchwords) (SELF, KT) Next Classification Narrower Terms (SELF, NT) Previous Classification Related Terms (SELF, RT) Complete Title of the SELF Term and Broader Terms (BT, SELF)	E A01N0047-02+ADV/IPC E C01C003-00+ALL/IPC E C01C+BRO/IPC E C01F001-00+BT/IPC E A01N0047-04+COR/IPC E C01F001-00+ED/IPC E C011003-00+HIE/IPC  E C01F001-00+INDEX/IPC E CYANOGEN+KT/IPC E C01C001-00+NEXT5/IPC E C01C+NT/IPC E C01C001-12+PREV10/IPC E C01C003-20+RT/IPC E C01F001-00+TI/IPC

### Field Descriptors for the IPC Thesauri

Code	Description
--->	SELF
BT	Broader Term
KT	Keyword Term
NT	Narrower Term
RT	Related Term
TI	Title

### National Patent Classification Thesauri

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

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, TI, NT)	E 210190000+ALL/NCL
BRO(n)	Next n F-Terms and previous n F-Terms	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 (SELF, KT) 1)	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
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.

### Field Descriptors for the National Patent Classification Thesauri

Code	Description
--->	SELF
BT	Broader Term
KT	Keyword Term
NT	Narrower Term
TI	Title

### Role (/RL) Thesaurus

The Role (/RL) 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 (BT, SELF)	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

## Field Descriptors for the Role Thesaurus

Code	Description
--->	SELF
BT	Broader Term
NOTE	Note
NT	Narrower term

## DISPLAY AND PRINT 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 L1 1-5 TI AU; DL1 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 Patent Information (PI) 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.

More information about display fields for specific types of information is available by typing one of the following 'HELP' commands at an arrow prompt (=>) in the CAPLUS database:

HELP DFIELDs	-	lists all valid custom formats
HELP EFIELDs	-	lists all selectable fields
HELP FORMATs	-	lists valid predefined formats
HELP SRTFIELDs	-	lists valid sort fields

Format	Definition	Examples
AB	Abstract	D TI AB 1-5
AI (AP)	1) Patent Application Information	D AI
AI.B (AP.B)	1,2) Patent Application Information, Basic	D AI.B
AN	Accession Number, Document Number, and Original Reference Number	D L3 AN
AU	Author	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
CYA	2) Country of Author	D CYA
CYC (CY.CNT)	2) Patent Country Count	D CYC
DN	Document Number (CA Reference Number)	D DN
DS	2) Designated States	
DS.B	2) Designated States, Basic	
DT (TC)	Document Type	D DT LA
ECLA	Patent Family European Classifications associated with patent numbers	
ED	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) Graphic Image	D GI
ICA	Additional or Supplementary IPC	D ICA
ICI	Index or Complementary IPC	D ICI
ICM	IPC, Main	D ICM
ICS	IPC, Secondary	D ICD
IN	Inventor	D IN

- 1) By default, patent numbers, 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 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.

## DISPLAY AND PRINT FORMATS (continued)

Format		Definition	Examples
INCL		Issued National Classification	D INCL
IPC.B		IPC of the Basic Patent	D IPC.B
IPCI		IPC, Initial	D IPCI
IPCR		IPC, Reclassified	D IPCR
ISN		International Standard (Document) Number	D ISN
IT		Index Term and Role	D IT
JT	2)	Journal Title	D JT
JTA	2)	Journal Title, Abbreviated	D JTA
JTF	2,4)	Journal Title, Full	D JTF
LA		Language	D LA
NCL		National Patent Classification	D NCL
OREF		Original Reference Number	D OREF
OS		Other Source	D OS
PA		Patent Assignee	D PA
PB		Publisher	D PB
PI (PN)	1)	Patent Information	D PI
PI.B (PN.B)	1,2)	Patent Information, Basic	D PI.B
PNC (PN.CNT)	2)	Patent Number Count	D PNC
PRAI (PRN)	1)	Priority Application Information	D PRAI
PRAI.B (PRN.B)	1,2)	Priority Application Information, Basic	D PRAI.B
PUI	2)	Publisher Item Identifier	D PUI
PY	2)	Publication Year	D PY
PY.B	2)	Publication Year, Basic	D PY.B
RE		Cited References	D RE
RETABLE	2)	Cited References Table	D RETABLE
RE.CNT (REC)		Citing Document's Reference Count	D RE.CNT
RL	5)	Index Term and Role	D RL
RN	2)	CAS Registry Number	D RN
SO		Source	D SO
ST		Supplementary Term	D ST
SX	2,6)	CA Section Cross Reference Code	D SX
TI		Title	D TI
URL	2)	Uniform Resource Locator	D URL
ABS		GI, AB	D ABS
IABS		ABS, indented with text labels	D IABS
ALL	1,5)	AN, DN, OREF, ED, TI, AU, IN, CS, PA, SO, PB, DT, LA, IC, (ICM, ICS), ICA, ICI, INCL, CC, FAN.CNT, PI, PRAI, OS, GI, AB, ST, IT, RL, RE	D 1-30 ALL
DALL	1,5)	ALL, delimited for post-processing	D IALL
APPS	1)	AI, PRAI	D APPS
BIB	1)	AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS, RE.CNT (BIB is the default)	D BIB
CBIB	1)	AN, DN, OREF, plus Compressed Bibliographic Data	D CBIB
FBIB	1)	BIB plus PI for other family accession numbers	D FBIB
IBIB	1)	BIB, indented with text labels	D IBIB
CAN		List of CA Abstract Numbers, no L-number headers	D CAN
CLASS		Classifications (IPC, ECLA, and FTERM codes) associated with basic patent and family members	
FAM		AN, DN, FAN.CNT, PI for the accession number plus PI for other family accession numbers	
FAN		Family Accession Number (AN, FAN.CNT, FAN)	D FAN

- 1) By default, patent numbers, 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 display to STN format, enter SET PATENT STN.
- 2) Custom display only.
- 4) Full journal titles are available only for records added since December 17, 2001.
- 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) SX displays all information in the CC field, i.e., CA section and section cross-references.

## DISPLAY AND PRINT FORMATS (continued)

Format		Definition	Examples
IND	5)	IC (ICM, ICS), ICA, ICI, INCL, CC, ST, IT, RL	D IND
IPC		IPC, for the basic patent and patent family members	D IPC
IPC.TAB		IPC, IPC.ACD, IPC.KW, IPC.VER in Tabular Format	D IPC.TAB
IPC.UNIQ		IPC codes unique for a basic patent and equivalents	D IPC.UNIQ
MAX	1,5)	ALL, plus PI for other family accession numbers	D MAX
DMAX	1,5)	MAX, delimited for post-processing	D DMAX
IMAX	1,5)	MAX, indented with text labels	D IMAX
OBIB	1)	BIB, Original, without patent family data (AN, OREF, TI, AU, IN, CS, PA, SO, PB, PI, DS, AI, PRAI, DT, LA, OS)	
OIBIB	1)	OBIB, indented with text labels	
PAGE	7)	Page images of CA pages containing the AN of a record	D PAGE
PATS	1)	PI, SO	D PATS
SBIB	1)	BIB, Standard, without RE.CNT (AN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS)	D SBIB
SIBIB	1)	BIB, without RE.CNT	D SIBIB
SAM	5)	IC (ICM, ICS), ICA, ICI, INCL, CC, TI, ST, IT, RL	D SAM
SCAN	5,8)	IC (ICM, ICS), ICA, ICI, INCL, CC, TI, ST, IT, RL (random display, no answer numbers)	D SCAN
STD	1)	AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, IC, ICA, ICI, INCL, PI, PRAI, CLASS, OS, RE.CNT	D STD
ISTD	1)	STD, indented with text labels	D ISTD
XML		BIB, AB in XML format	D XML
FHITSEQ	5)	First hit CAS Registry Number, its role, text modification, its CA index name, and the sequence diagram	D CBIB FHITSEQ
FHITSTR	5)	First hit CAS Registry Number, its role, text modification, its CA index name, and the structure diagram	D CBIB FHITSTR
HIT		Hit-term(s) and field(s)	D HIT 1-5
HITIND	5)	IC (ICM, ICS), ICA, ICI, NCL, CC, ST, IT, and RL containing hit terms	D HITIND
HITRN	5)	Hit CAS Registry Number, its role, and its text modification	D HITRN
HITSEQ	5)	First hit CAS Registry Number, its role, text modification, its CA index name, and the sequence diagram	D CBIB FHITSEQ
HITSTR	5)	Hit CAS Registry Number, its role and its text modification, its CA index name, and its structure diagram	D HITSTR
IPC.HIT		Hit IPC	D IPC.HIT
KWIC		Up to 50 words before and after hit-term(s) (KeyWord-In-Context)	
OCC		Number of occurrences of hit-term(s) and field(s) in which they occur	D OCC 1-6

- 1) By default, patent numbers, 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 display to STN format, enter SET PATENT STN.
- 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.
- 7) Format is used to download images of pages of printed CA with abstracts published in 1907-1966. Use the format in the DISPLAY command. If the abstract is located on more than one page, all the relevant pages are automatically downloaded. Any program that handles TIFF images compressed in Group 4 fax format, e.g., STN Express with Discover!, may be used to capture images from DISPLAY. Images may be viewed directly in DISPLAY when using STN on the Web.
- 8) SCAN must be specified in the command line, i.e., D SCAN or DISPLAY SCAN.

## DISPLAYING CAPLUS, CA FILE 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 CAPLUS records for the cited references 1 and 2 from answer 2 in the answer set L5, enter the following: => **D RAN.CAPLUS(1-2) L5 2 BIB ABS**

## SELECT, ANALYZE, AND SORT CODES

The SELECT command is used to create E-numbered or L-numbered lists of terms taken from the specified field(s) 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 alphanumeric (A) or numeric (N) order of the specified field(s).

Definition	Code	Analyze/ Select 1)	Sort
Abstract	AB	x	-
Application Country	AC	x 2)	A
Application Country, Basic	AC.B	x 2,3)	A
Application Date	AD	x 2)	N
Application Date, Basic	AD.B	x 4)	N
Application Information	AI	x 2,5,6)	A
Application Information, Basic	AI.B	x 5,7)	A
Accession Number	AN	x	-
Application Number	AP	x 2,5)	A
Application Number, Basic	AP.B	x 5,7)	A
Application and Priority Number	APPS	x 2,5,8)	-
Application and Priority Number, Basic	APPS.B	x 5,9)	-
Author (incl. Inventor)	AU	x	A
Application Year	AY	x	N
Application Year, Basic	AY.B	x 10)	N
Classification Code (CA section and subsection)	CC	x	A
Citation	CIT	x 2,11)	-
Corporate Name	CO	x	A
CODEN	CODEN	x 12)	A
Corporate Source (incl. Patent Assignee)	CS	x	A
Corporate Source, Division	CS. DIV	x	-
Corporate Source, Organization	CS. ORG	x	-
Controlled Term	CT	x	-
Country Name of Author	CYA	x	A
Patent Country Count	CYC	x 13)	-
Document Number	DN	x	-
Designated State	DS	x	-
Designated State, Basic	DS.B	x 2,14)	-
Document Type	DT (TC)	x	A

- 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) SELECT HIT and ANALYZE HIT are not valid with this field.
- 3) Appends /AC to the terms created by SELECT.
- 4) Appends /AD to the terms created by SELECT.
- 5) Selects or analyzes the Patent Application Number and appends /AP to the terms created by SELECT.
- 6) Enter SET PATENT DERWENT at an arrow prompt (=>) to SELECT or ANALYZE patent, application, and priority numbers in Derwent format.
- 7) Selects or analyzes Basic Patent Application Number and appends /AP to the terms created by SELECT.
- 8) Selects or analyzes the AP and PRN and appends /APPS to the terms created by SELECT.
- 9) Selects or analyzes Basic Application and Priority Numbers and appends /APPS to the terms created by SELECT.
- 10) Appends /AY to the terms created by SELECT.
- 11) SELECT or ANALYZE CIT allows you to extract the reference from the source documents in this file and have them automatically converted to a citation format for searching in the SCISEARCH file. SEL or ANALYZE CIT extracts first author, publication year, volume, first page, with a truncation symbol and with /RE appended to the terms created by SELECT.
- 12) Selects or analyzes the CODEN and appends /ISN to the terms created by SELECT.
- 13) Appends /CY.CNT to the terms created by SELECT.
- 14) Appends /DS to the terms created by SELECT.

**SELECT, ANALYZE, AND SORT CODES (continued)**

Definition	Code	Analyze/ Select 1)	Sort
European Classifications	ECLA	x	-
Entry Date	ED	x	N
Family Accession Number	FAN	x 2,15)	-
File Segment	FS	x 2)	A
File Forming Terms	FTERM	x	-
Genbank Number	GENBANK	x 2,16)	-
IPC, Main and Secondary	IC	A	A
IPC, Additional (Supplementary)	ICA	x	A
IPC, Index (Complementary)	ICI	x	A
IPC, Main	ICM	x	A
IPC, Secondary	ICS	x	A
Inventor	IN	x	A
Issued National Classification	INCL	x	-
International Patent Classification, All	IPC	x	A
IPC, Basic Patent	IPC.B	x	-
IPC, Initial	IPCI	x	-
IPC, Reclassified	IPCR	x	-
International Standard Book Number	ISBN	x 17)	x
International Standard (Document) Number	ISN	x 18)	-
International Standard Serial Number	ISSN	x 19)	A
Index Term	IT	x	-
Journal Title	JT	x	A
Journal Title, Abbreviated	JTA	x 20)	A
Journal Title, Full	JTF	x 20)	A
Language	LA	x	A
National Patent Classification	NCL	x	A
Ocurrence Count of Hit Terms	OCC	-	N
Original Reference Number	OREF	x 2,15)	-
Other Source	OS	x	A
Patent Assignee	PA	x	A
Publisher	PB	x	-
Patent Country	PC	x 2)	A
Patent Country, Basic	PC.B	x 2,21)	A
Patent Countries	PCS	x 2,22)	-
Patent Countries, Basic	PCS.B	x 2,23)	-
Publication Date	PD	x 2)	N
Publication Date, Basic	PD.B	x 24)	N
Patent Information, Basic	PI.B	x 25)	A
Patent Kind Code	PK	x 2)	A
Patent Kind Code Basic	PK.B	x 2,26)	A
Patent Number	PN (PI)	x 2)	A
	PATS	x 2,27)	-

- 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) SELECT HIT and ANALYZE HIT are not valid with this field.
- 15) Appends /AN to the terms created by SELECT.
- 16) Appends /BI to the terms created by SELECT.
- 17) Selects or analyzes the ISBN and appends /ISN to the terms created by SELECT.
- 18) Selects or analyzes the Coden and ISSN and appends /ISN to the terms created by SELECT.
- 19) Selects or analyzes the ISSN and appends /ISN to the terms created by SELECT.
- 20) Appends /JT to the terms created by SELECT.
- 21) Appends /PC to the terms created by SELECT.
- 22) Selects or analyzes the country codes from PI and DS and appends /PCS to the terms created by SELECT.
- 23) Selects or analyzes the country codes from PI.B and DS.B and appends /PCS to the terms created by SELECT.
- 24) Appends /PD to the terms created by SELECT.
- 25) Selects or analyzes Basic Patent Number and appends /PN to the terms created by SELECT.
- 26) Appends /PK to the terms created by SELECT.
- 27) Selects or analyzes the Patent Number and appends /PATS to the terms created by SELECT.

**SELECT, ANALYZE, AND SORT CODES (continued)**

Definition	Code	Analyze/ Select 1)	Sort
Patent Number, Basic	PN.B	x 28)	A
	PATS.B	x 29)	-
Patent Number Count	PNC	x 30)	-
Priority Information	PRAI	x 2,31)	A
Priority Information, Basic	PRAI.B	x 32)	A
Priority Country	PRC	x 2)	A
Priority Country, Basic	PRC.B	x 2,33)	A
Priority Date	PRD	x 2)	N
Priority Date, Basic	PRD.B	x 2,34)	N
Priority Number	PRN	x 2)	A
Priority Number, Basic	PRN.B	x 35)	A
Priority Year	PRY	x 2)	N
Priority Year, Basic	PRY.B	x 2,36)	N
Publisher Item Identifier	PUI	x	-
Publication Year	PY	x	N
Publication Year, Basic	PY.B	x 37)	N
Cited Reference Accession Number in CA	RAN.CA	x 38)	-
Cited Reference Accession Number(n) in CA	RAN.CA(n)	x 38)	-
Cited Reference Accession Number in CAPLUS	RAN.CAPLUS	x 38)	-
Cited Reference Accession Number(n) in CAPLUS	RAN.CAPLUS(n)	x 38)	-
Cited Reference Accession Number(n) in MEDLINE	RA.MED(n)	x 38)	-
Cited Reference Author Name	RAU (RIN)	x	-
Cited References	RE	x	-
Cited Reference(n)	RE(n)	x	-
Cited Reference Count	RE.CNT (REC)	x	N
Cited Reference Table	RETABLE	x	-
Role	RL	x	-
CAS Registry Number	RN	x 39)	-
Cited Reference Patent Number	RPN	x	N
Cited Reference Publication Year	RPY	x	N
Cited Reference Work Title	RWK	x	N
Source	SO	x 40)	-
Supplementary Term	ST	x	-
CA Section Cross-Reference	SX	x	A
Title	TI	x	A
		(default)	
Uniform Resource Locator	URL	x	-

- 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 TI.
- 2) SELECT HIT and ANALYZE HIT are not valid with this field.
- 28) Appends /PN to the terms created by SELECT.
- 29) Selects or analyzes Basic Patent Number and appends /PATS to the terms created by SELECT.
- 30) Appends /PN.CNT to the terms created by SELECT.
- 31) Selects or analyzes the Priority Application Number and appends /PRN to the terms created by SELECT.
- 32) Selects or analyzes Basic Priority Application Number and appends /PRN to the terms created by SELECT.
- 33) Appends /PRC to the terms created by SELECT.
- 34) Appends /PRD to the terms created by SELECT.
- 35) Appends /PRN to the terms created by SELECT.
- 36) Appends /PRY to the terms created by SELECT.
- 37) Appends /PY to the terms created by SELECT.
- 38) Appends /AN to the terms created by SELECT.
- 39) Appends /BI to the terms created by SELECT.
- 40) Selects or analyzes the CODEN, ISBN and the ISSN and appends /SO to the terms created by SELECT.

## SAMPLE RECORDS

## DISPLAY ALL (Journal)

AN 2000:138202 CAPLUS  
 DN 132:221385  
 ED Entered STN: 01 Mar 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 prodn. 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<sup>-1</sup>. 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 fermm *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*)  
 RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE  
 (1) Brierley, R; Ann NY Acad Sci 1990, V589, P350 CAPLUS  
 (2) Brierley, R; WO-----9003431 International Patent (PCT) Application 1989  
 CAPLUS  
 (3) Chen, Y; Proc Biochem 1997, V32, P107  
 (4) Folkman, J; Proc Natl Acad Sci 1979, V76, P5217 MEDLINE  
 (5) Guarna, M; Biotechnol Bioeng 1997, V56, P279 CAPLUS  
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**DISPLAY ALL (PATENT RECORD)**

AN 1966:499665 CAPLUS  
 DN 65:99665  
 OREF 65:18683h,18684a-b  
 ED Entered STN: 22 Apr 2001  
 TI Adamantyl compounds  
 PA Eli Lilly & Co.  
 SO 8 pp.  
 DT Patent  
 LA Unavailable  
 IC C07C  
 CC 44 (Amino Acids, Peptides, and Proteins)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL-----6600403		19660722	1966NL-000000403	19660112
PRAI	US		19650121		

**CLASS**

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
NL 6600403	IC	C07C
	IPCI	C07C
	IPCR	C07C0069-00 [I,C*]; C07C0069-96 [I,A]; C07C0271-00 [I,C*]; C07C0271-34 [I,A]; C07D0207-00 [I,C*]; C07D0207-16 [I,A]; C07K0001-00 [I,C*]; C07K0001-06 [I,A]

AB New adamantyloxycarbonyl derivs. (I) of  $\alpha$ -amino acids were prepd. I includes derivs. of naturally occurring  $\alpha$ -amino acids and is a suitable blocking group in synthesis of peptides, penicillins, or cephalosporins. This blocking group can be removed with F3CCO2H, anhydrous HCl, or by other known methods. Thus, to 20 g. COCl<sub>2</sub> in 100 ml. anhydrous C<sub>6</sub>H<sub>6</sub>, a mixture of 8 g. 1-hydroxyadamantane, 6 g. pyridine, and 200 ml. ether was added dropwise at .apprx.20° during 1 hr. to give 1-adamantyl chloroformate, m. 46-7°. Similarly, 3,5-dimethyl-1-hydroxyadamantyl chloroformate, m. .apprx.5-10°, and 3-hydroxyhomoadamantyl chloroformate, m. .apprx.0°, were prepared To 151 mg. D-phenylglycine in 2 ml. H<sub>2</sub>O and 1.2 ml. N NaOH, a solution of 225 mg. 1-adamantyl chloroformate in 2.5 ml. dioxane and 1 ml. ether was added in 5 portions during 40 min. After addition of 1 ml. N NaOH, the reaction mixture was extracted with ether, acidified with 85% H<sub>3</sub>PO<sub>4</sub> to pH 4.5, and extracted with ether to give N-(1-adamantyloxycarbonyl)-D-phenylglycine, m. 119-20°. Also prepared was the glycine analog, m. 141-2.5°.

**IT Lactones**

(aza)

IT 7781-05-7 13525-71-8 92906-69-9 93009-71-3  
 (Derived from data in the 7th Collective Formula Index (1962-1966))  
 IT 768-95-6P, 1-Adamantanol, chloroformate and N-esters with N-carboxyglycine and D-N-carboxy-2-phenylglycine 776-99-8P, 2-Propanone, (3,4-dimethoxyphenyl)- 5854-52-4P, Formic acid, chloro-, 1-adamantyl ester 5854-56-8P, Glycine, N-carboxy-, N-1-adamantyl ester 5854-63-7P, Glycine, N-carboxy-2-phenyl-, N-1-adamantyl ester, D- 10144-56-6P, 1-Adamantanol, 3,5-dimethyl-, chloroformate 10144-78-2P, 1-Adamantanol, 3-methyl-, chloroformate 10177-46-5P, Formic acid, chloro-, tricyclo[4.3.1.13,8]undec-3-yl ester  
 RL: PREP (Preparation)  
 (preparation of)

**DISPLAY ALL (PRE-1907 JOURNAL RECORD)**

AN 1906:419 CAPLUS  
 DN 0:419  
 ED Entered STN: 07 Dec 2003  
 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), 71, 1106-1114  
 CODEN: JCHTA3; ISSN: 0368-1645

DT Journal

LA English

CC 10 (Organic Chemistry)

OS CASREACT 0:419

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.

**DISPLAY CLASS**

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2006284539	INCL	313311000; 313310000; 313309000
	IPCI	H01J0001-00 [I,A]; H01J0019-06 [I,A]; H01J0019-00 [I,C*]; H01J0001-02 [I,A]
	IPCR	H01J0001-00 [I,C]; H01J0001-00 [I,A]; H01J0001-02 [I,C]; H01J0001-02 [I,A]; H01J0019-00 [I,C]; H01J0019-06 [I,A]
	NCL	313/311.000; 313/309.000; 313/310.000
	ECLA	H01J063/06; H01L037/00
US--2005275330	IPCI	H01L0035-12 [I,A]
	IPCR	H01J0001-02 [I,C*]; H01J0001-02 [I,A]; H01J0001-13 [I,C*]; H01J0001-14 [I,A]; H01L0037-00 [I,C*]; H01L0037-00 [I,A]
	NCL	313/311.000
	ECLA	H01L037/00