

CA (Chemical Abstracts)

Subject Coverage	<ul style="list-style-type: none"> • Applied chemistry • Chemical engineering • Macromolecular chemistry • Organic chemistry • Biochemistry • Analytical chemistry 																				
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File Type	Bibliographic																				
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Features	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Thesaurus</td> <td colspan="3">Classification Code (/CC), Company Name (/CO), Controlled Term (/CT), F-Term (/FTERM), International Patent Classifications (/IPC), National Patent Classifications Current (/NCL), National Patent Classifications Issue (/INCL), and Role (/RL)</td> </tr> <tr> <td>Alerts (SDIs)</td> <td colspan="3">Biweekly</td> </tr> <tr> <td>CAS Registry Numbers®</td> <td><input checked="" type="checkbox"/></td> <td>Page Images</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Keep & Share</td> <td><input checked="" type="checkbox"/></td> <td>SLART</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Learning Database</td> <td><input checked="" type="checkbox"/></td> <td>Structures</td> <td><input checked="" type="checkbox"/></td> </tr> </table>	Thesaurus	Classification Code (/CC), Company Name (/CO), Controlled Term (/CT), F-Term (/FTERM), 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"/>
Thesaurus	Classification Code (/CC), Company Name (/CO), Controlled Term (/CT), F-Term (/FTERM), International Patent Classifications (/IPC), National Patent Classifications Current (/NCL), National Patent Classifications Issue (/INCL), and Role (/RL)																				
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Learning Database	<input checked="" type="checkbox"/>	Structures	<input checked="" type="checkbox"/>																		
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Record Content	<ul style="list-style-type: none"> • Bibliographic information 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) as well as nearly 300,000 patent records from 1982-2008 • Citing references • Legal status information for U.S. patents since 1980 																				
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File Size	More than 28.4 million records (10/09)																				
<hr/>																					
Coverage	1907-present plus over 134,000 pre-1907 records																				
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Updates	Weekly updates (approx. 14,000 records)																				
<hr/>																					
Language	English																				
<hr/>																					
Database Producer	Chemical Abstracts Service P.O. Box 3012 Columbus, Ohio 43210-0012 USA Phone: 614-447-3700 Fax: 614-447-3751																				
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Sources

- Journals: Over 10,000 journals are monitored. New indexed records are added weekly.
- Patents: <http://www.cas.org/expertise/cascontent/caplus/patcoverage/index.html>
- Conference Proceedings: <http://www.cas.org/expertise/cascontent/caplus/confcov.html>
- 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/support/stngen/index.html
- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

Clusters

- [2ANAVIST](#)
- [AEROTECH](#)
- [AGRICULTURE](#)
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- [BIOSCIENCE](#)
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- [CASRNS](#)
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- [CHEMISTRY](#)
- [CORPSOURCE](#)
- [ENGINEERING](#)
- [ENVIRONMENT](#)
- [FOOD](#)
- [FORMULATIONS](#)
- [FUELS](#)
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- [GOVREGS](#)
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- [PHARMACOLOGY](#)
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- [POLYMERS](#)
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- [TOXICOLOGY](#)

Related Databases

- [CAplus](#)

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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 (*).

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 FAN.CNT
File Forming Terms (Patent Classifications from the Japanese Patent Office) (4) International Patent Classification, Action Date (1) International Patent Classification, Additional or Supplementary (2,6)	/FTERM (or /FTCLA or /JPCLA) /IPC.ACD /ICA	S 4C002/BB03/FTERM S 4C002/FTERM S 20050101/IPC.ACD S B01J/ICA S B01J027/ICA S CYANOGEN/ICA	CLASS, FTERM, FTCLA, JPCLA IPC.TAB ICA
International Patent Classification, All (5)	/IPC	S A61K/IPC S A61K0031-473/IPC S G01N0001-28/IPC.B	IPC
International Patent Classification, Basic Patent	/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
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) Content of this field is available only for records starting in 1993.
- (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 S A01B001/IPC.OLD	IC, ICA, ICI
Patent Application and Priority Number (1,2)	/APPS	/AP, /PRN	S DE84-3400052/APPS S 84DE-3400052/APPS	AI, PI, PRAI
Patent Application and Priority Number, Basic (1,2)	/APPS.B	/AP.B, /PRN.B	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.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

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 (nonpreferred 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 ANGUS CHEMICAL COMPANY+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

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
TI	Complete Title of the SELF Term	E 502060000+TI/NCL

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

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)

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

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 A01N00404+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

Role (/RL) Thesaurus

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

Code	Content	Examples
ALL BT HIE	All associated terms, including Notes (BT, SELF, NOTE, NT) Broader Terms (SELF, BT) Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT)	E SPN+ALL/RL E CAT+BT/RL E FFD+HIE/RL
NOTE NT	Any Notes (role definitions) (SELF, NOTE) Narrower Terms (SELF, NT)	E IMF+NOTE/RL 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	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
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	Legal status information for U.S. patents	D LSUS

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
NCL OREF (6) OS OS.G (OS.CITING.AN) OSC.G (CITING.CNT) PA PB PI (PN) (1) PI.B (PN.B) (1,2) PNC (PN.CNT) (2) 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)	National Patent Classification, Current Original Reference Number Other Source Citing Reference Accession Numbers Citing Reference Count Patent Assignee Publisher Patent Information Table Patent Information, Basic Patent Number Count 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 PI IC NCL D OREF D TI OS D OS.G D OSC.G D PA D PB D TI PI D PI.B D PNC 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 IC IMAX (1,4,5) IND (5) IPC IPC.B IPC.TAB IPC.UNIQ IPCI IPCR ISTD (1) MAX (1,4,5)	GI, AB AN, OREF, ED, TI, AU, IN, CS, PA, SO, PB, DT, LA, IC (ICM, ICS), ICA, ICI, INCL, CC, FAN.CNT, PI, PRAI, CLASS, OS, GI, AB, ST, IT, RL, OSC.G, UPOS.G, OS.G, RE AI, PRAI AN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS, RE.CNT (BIB is the default) List of CA Abstract Numbers, no L-number headers AN, OREF, plus compressed bibliographic data Classifications (IPC, ECLA, 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 Main and Secondary IPCs (ICM, ICS) for the basic patent MAX, indented with text labels IC (ICM, ICS), ICA, ICI, INCL, 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 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 PI IC 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 120 accession numbers) OS.G (up to 120 accession numbers) Page images of CA pages containing the AN of a record PI, SO IC (ICM, ICS), ICA, ICI, INCL, CC, TI, ST, IT, RL IC (ICM, ICS), ICA, ICI, INCL, 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 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 IC (ICM, ICS), ICA, ICI, 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 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 CAPLUS, 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

16

CA

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 References Table	RETABLE	Y	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
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	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 (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
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 CAPlus 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 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 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2000:138202 CAPLUS [Full-text](#)
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 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 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
UPOS.G Date last citing reference entered STN: 16 Feb 2009
OS.G CAPLUS 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 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
(6) Holmgren, L; Nature Med 1995, V1, P149 CAPLUS
(7) Hsiao, J; Ann NY Acad Sci 1992, V665, P320 CAPLUS
(8) Invitrogen Corp; A Manual of Methods of Expression of Recombinant Proteins in *Pichia pastoris* 1998
(9) Loewen, M; Appl Microbiol Biotechnol 1997, V48, P480 CAPLUS
(10) Mateles, R; Biotechnol Bioeng 1971, V13, P581 CAPLUS
(11) O'Reilly, M; Cell 1994, V79, P315 CAPLUS
(12) Romanos, M; Curr Opin Biotechnol 1995, V6, P527 CAPLUS
(13) Sim, B; Cancer Res 1977, V57, P1329
(14) Sreekrishna, K; Gene 1997, V190, P55 CAPLUS
(15) Sukhatme, P; WO 9929878 International Patent (PCT) application 1999 CAPLUS
(16) Tschopp, J; Nucleic Acid Res 1987, V15, P3859 CAPLUS
(17) Wagner, L; Biotechnol Techniques 1997, V11, P791 CAPLUS
(18) Weidner, N; New Engl J Med 1991, V324, P1 MEDLINE

DISPLAY BIB LSUS (Patent)

L3 ANSWER 1 OF 1 CA COPYRIGHT 2009 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
	CN 101384273	A	20090311	CN 2007-80005791	20080818
PRAI	US 2006-756502P	P	20060105		
	WO 2007-US24	W	20070103		

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))

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

22
CA

DISPLAY ALL (7CI Journal Record)

ANSWER 1 CA COPYRIGHT 2004 ACS on STN

AN 65:98879 CA

OREF 65:18464e-f

ED Entered STN: 22 April 2001

TI Ultraviolet spectra of hydrazones

AU Adembri, I. G.; Sarti-Fantoni, P.; Belgodere, E.

CS Univ. Florence

SO Tetrahedron (1966), 22(9), 3149-56

DT Journal

LA English

CC 32 (Physical Organic Chemistry)

AB The uv spectra of some hydrazones and alkylhydrazones were analyzed in order to ascertain the contribution of the N lone pair to the conjugated system. In addn., the effect of steric hindrance on conjugation in dimethylhydrazones was investigated. The steric hindrance of the hydrazine Me groups to the carbonylic Me group decreases the intensity of the conjugation band.

IT Steric hindrance

(in dimethylhydrazones)

IT Spectra, visible and ultraviolet

(of hydrazones, effect of N lone pair in)

IT Electrons, annihilation of

(pairs (lone) of N in hydrazones, ultraviolet spectra in relation to)

IT Benzaldehyde, hydrazone

Benzaldehyde, methylhydrazone

(spectrum of, effect of N lone pair on)

IT 13165-93-0, Methane, (isopropylsulfonyl)(methylsulfonyl)-

(prepn. of)

IT 98-86-2, Acetophenone 101-39-3, Cinnamaldehyde, .alpha.-methyl-

104-55-2, Cinnamaldehyde 122-57-6, 3-Buten-2-one, 4-phenyl- 5443-49-2,

Cinnamaldehyde, .alpha.-bromo- 13466-34-7, Cinnamaldehyde,

.alpha.-methyl-, dimethylhydrazone 13466-40-5, 2,4-Pentadienal,

5-phenyl-

(spectrum of)

IT 28134-23-8, Benzaldehyde, dimethylhydrazone

(spectrum of, N lone pair effect on)

IT 13466-30-3, Acetophenone, hydrazone 13466-31-4, Acetophenone,

methylhydrazone 13466-32-5, Acetophenone, dimethylhydrazone

13466-33-6, 3-Buten-2-one, 4-phenyl-, dimethylhydrazone 13466-39-2,

Cinnamaldehyde, dimethylhydrazone

(spectrum of, effect of N lone pair on)

DISPLAY ALL (7CI Patent Record)

ANSWER 1 CA COPYRIGHT 2004 ACS on STN

AN 65:99665 CA

OREF 65:18683h,18684a-b

ED Entered STN: 22 April 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
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PI NL 66000403		19660722	NL	
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PRAI US		19650121		
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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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NL 6600403	IC	C07C
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DISPLAY ALL (7CI Patent Record) (cont'd)

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, anhyd. HCl, or by other known methods. Thus, to 20 g. COCl2 in 100 ml. anhyd. C6H6, a mixt. of 8 g. 1-hydroxyadamantane, 6 g. pyridine, and 200 ml. ether was added dropwise at .apprx.20.degree. during 1 hr. to give 1-adamantyl chloroformate, m. 46-7.degree.. Similarly, 3,5-dimethyl-1-hydroxyadamantyl chloroformate, m. .apprx.5-10.degree., and 3-hydroxyhomoadamantyl chloroformate, m. .apprx.0.degree., were prepd. To 151 mg. D-phenylglycine in 2 ml. H2O and 1.2 ml. N NaOH, a soln. of 225 mg. 1-adamantyl chloroformate in 2.5 ml. dioxane and 1 ml. ether was added in 5 portions during 40 min. After addn. of 1 ml. N NaOH, the reaction mixt. was extd. with ether, acidified with 85% H3PO4 to pH 4.5, and extd. with ether to give N-(1-adamantyloxycarbonyl)-D-phenylglycine, m. 119-20.degree.. Also prepd. was the glycine analog, m. 141-2.5.degree..

IT Lactones
(aza)

IT 1-Adamantanol, chloroformate and N-esters with N-carboxyglycine and D-N-carboxy-2-phenylglycine

IT 776-99-8, 2-Propanone, (3,4-dimethoxyphenyl)- 5854-52-4, Formic acid, chloro-, 1-adamantyl ester 5854-56-8, Glycine, N-carboxy-, N-1-adamantyl ester 5854-63-7, Glycine, N-carboxy-2-phenyl-, N-1-adamantyl ester, D-10144-56-6, 1-Adamantanol, 3,5-dimethyl-, chloroformate 10144-56-6, Formic acid, chloro-, 3,5-dimethyl-1-adamantyl ester 10144-78-2, Formic acid, chloro-, 3-methyl-1-adamantyl ester 10144-78-2, 1-Adamantanol, 3-methyl-, chloroformate 10177-46-5, Formic acid, chloro-, tricyclo[4.3.1.13,8]undec-3-yl ester 10177-46-5, Tricyclo[4.3.1.13,8]undecan-3-ol, chloroformate (prepn. of)

DISPLAY OSG

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN

OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

UPOS.G Date last citing reference entered STN: 16 Feb 2009

OS.G CAPLUS 2006:647088; 2002:675862; 2001:597842; 2001:208417; 2001:137393; 2001:31535; 1999:388310

DISPLAY CLASS

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 20050275330	ICM	H01J001-14
	ICS	H01J001-02
	INCL	313311000
	IPCI	H01J0001-14 [ICM,7]; H01J0001-02 [ICS,7]
	NCL	313/311.000
US 2003168957	IPCI	H01J0001-14 [ICM,7]; H01J0019-06 [ICS,7]
	IPCR	C01B0031-00 [I,C]; C01B0031-06 [I,A]; H01J0001-13 [I,C]; H01J0001-14 [I,A]; H01J0001-30 [I,C]; H01J0001-304 [I,A]
	NCL	313/311.000
	ECLA	C01B031/06; H01J001/14; H01J001/304 <--
US 2004066127	IPCI	H01J0019-06 [ICM,7]; H01J0001-38 [ICS,7]; H01J0001-05 [ICS,7]; H01J0001-48 [ICS,7]; H01J0001-14 [ICS,7]
	NCL	313/311.000
	ECLA	C01B031/06; H01J001/14; H01J001/304
US 2005151464	IPCI	H05B0033-14 [ICM,7]; H05B0033-22 [ICS,7]
	NCL	313/503.000

24
CA

DISPLAY IPC.TAB

PI US 2005275330

IPCI CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
H01J0001-14	(7)	Main			US Human	20051215	O
H01J0001-02	(7)	Secondary			US Human	20051215	O

PI US 2003168957

IPCI CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
H01J0001-14	(7)	Main			US Human	20030911	O
H01J0019-06	(7)	Secondary			US Human	20030911	O

IPCR CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
C01B0031-00	(200506)		I	Core	EP Machine	20050722	R
C01B0031-06	(200601)		I	Advanced	EP Machine	20050722	R
H01J0001-13	(200506)		I	Core	EP Machine	20050722	R
H01J0001-14	(200601)		I	Advanced	EP Machine	20050722	R
H01J0001-30	(200506)		I	Core	EP Machine	20050722	R
H01J0001-304	(200601)		I	Advanced	EP Machine	20050722	R

PI US 2004066127

IPCI CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
H01J0019-06	(7)	Main			US Human	20040408	O
H01J0001-38	(7)	Secondary			US Human	20040408	O
H01J0001-05	(7)	Secondary			US Human	20040408	O
H01J0001-48	(7)	Secondary			US Human	20040408	O
H01J0001-14	(7)	Secondary			US Human	20040408	O

PI US 2005151464

IPCI CODE	VERSION	POS	INV	LEVEL	CC ASSIGNMENT	DATE	STAT
H05B0033-14	(7)	Main			US Human	20050714	O
H05B0033-22	(7)	Secondary			US Human	20050714	O

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

DISPLAY ALL (PRE-1907 JOURNAL RECORD) (cont'd)

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.

EXPAND in the CA Section Thesaurus (/CC)**=> E CERAMICS+ALL/CC**

```
E1      314256  --> CERAMICS/CC
E2      1858   USE 17 CERAMICS, 1962 ONLY/CC
E3      9756   USE 21 CERAMICS, 1963-1966/CC
E4      297473 USE 57 CERAMICS, 1967 TO PRESENT/CC
*****  END  *****
```

=> E E4+ALL

```
E1      4718299 BT1 APPLIED/CC
E2      297473  --> 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).

E3      1858   OLD 17 CERAMICS, 1962 ONLY/CC
E4      496    OLD 19 GLASS AND CERAMICS, 1908-1909/CC
E5      4421   OLD 19 GLASS AND CERAMICS, 1911-1920/CC
E6      135    OLD 19 GLASS AND POTTERY, 1907 ONLY/CC
E7      46601  OLD 19 GLASS, CLAY PRODUCTS, REFRACTORIES, AND ENAMELED
          METALS, 1921-1961/CC

E8      252    OLD 20 GLASS AND CERAMICS, 1910 ONLY/CC
E9      9756   OLD 21 CERAMICS, 1963-1966/CC
E10     0      NT1 57-0 CERAMICS, 1972 TO PRESENT, REVIEWS/CC
E11     0      NT1 57-1 CERAMICS, 1972 TO PRESENT, GLASS (OXIDE AND
          NONOXIDE GLASSES)/CC
E12     0      NT1 57-2 CERAMICS, 1972-1981, CLAYS AND CLAY PRODUCTS/CC
E13     0      NT1 57-2 CERAMICS, 1982 TO PRESENT, CERAMICS/CC
E14     0      NT1 57-3 CERAMICS, 1972-1981, GLAZES/CC
E15     0      NT1 57-3 CERAMICS, 1982 TO PRESENT, PORCELAIN/CC
E16     0      NT1 57-4 CERAMICS, 1972-1981, WHITEWARE/CC
E17     0      NT1 57-4 CERAMICS, 1982 TO PRESENT, GLAZES AND GLASSY
          COATINGS/CC
E18     0      NT1 57-5 CERAMICS, 1972-1981, REFRACTORIES/CC
E19     0      NT1 57-5 CERAMICS, 1982 TO PRESENT, CLAYS AND CLAY
          PRODUCTS/CC
E20     0      NT1 57-6 CERAMICS, 1972-1981, ABRASIVES/CC
E21     0      NT1 57-6 CERAMICS, 1982 TO PRESENT, REFRACTORIES/CC
E22     0      NT1 57-7 CERAMICS, 1972-1981, OTHER/CC
E23     0      NT1 57-7 CERAMICS, 1982 TO PRESENT, ABRASIVES/CC
E24     0      NT1 57-8 CERAMICS, 1982 TO PRESENT, CARBON PRODUCTS/CC
E25     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 2709 BT7 Eukaryote (Eukaryotae)/CT
 E2 10710 BT6 Plant (Embryophyta)/CT
 E3 256 BT5 Angiosperm (Magnoliophyta)/CT
 E4 567 BT4 Dicotyledon (Magnoliopsida)/CT
 E5 4 BT3 Asterales/CT
 E6 146 BT2 Compositae (Asteraceae)/CT
 E7 99 BT1 Helianthus/CT
 E8 18728 BT2 Feed/CT
 E9 0 BT1 Plant-derived feed (non-CA heading)/CT
 E10 7172 --> Sunflower/CT
 HNTE Valid heading during volume 66 (1967) to present.
 E11 7 OLD Sunflowers/CT
 E12 UF Helianthus annuus/CT
 E13 1 NT1 Sunflower (Helianthus annuus jaegeri)/CT
 E14 0 NT1 Sunflower (Helianthus annuus lenticularis)/CT
 E15 1 NT1 Sunflower (Helianthus annuus macrocarpus)/CT
 E16 1 NT1 Sunflower (Helianthus annuus texanus)/CT
 E17 NT1 Sunflower (L) H. annuus lenticularis/CT
 E18 NT1 Sunflower (L) H. annuus texanus/CT
 E19 NT1 Sunflower (L) Helianthus annuus lenticularis/CT
 E20 NT1 Sunflower (L) Helianthus annuus texanus/CT
 E21 625 RT Sunflower meal/CT
 E22 7028 RT Sunflower oil/CT
 ***** END *****

=> E AZO DYES+ALL/CT

E1 29832 BT2 Organic compounds/CT
 E2 2308 BT1 Azo compounds/CT
 E3 9149 BT3 Materials/CT
 E4 4164 BT2 Coloring materials/CT
 E5 64294 BT1 Dyes/CT
 E6 2656 --> Azo dyes/CT
 HNTE Valid heading during volume 126 (1997) to present.
 E7 12083 OLD Dyes, azo/CT
 E8 0 NT1 1-(Phenylazo)-2-naphthol/CT
 E9 0 NT1 4-(Dimethylamino)azobenzene/CT
 E10 0 NT1 4-Aminoazobenzene/CT
 E11 35 NT1 Amaranth/CT
 E12 0 NT1 Carmine 6B/CT
 E13 0 NT1 Congo red/CT
 E14 0 NT1 Disperse Red 1/CT
 E15 NT1 Dyes, azo (L) acid/CT
 E16 NT1 Dyes, azo (L) basic/CT
 E17 NT1 Dyes, azo (L) bis-/CT
 E18 NT1 Dyes, azo (L) cationic/CT
 E19 NT1 Dyes, azo (L) dichroic/CT
 E20 NT1 Dyes, azo (L) direct/CT
 E21 NT1 Dyes, azo (L) disperse/CT
 E22 NT1 Dyes, azo (L) intermediates/CT
 E23 NT1 Dyes, azo (L) polymerizable/CT
 E24 NT1 Dyes, azo (L) water-sol./CT
 E25 NT1 Dyes, reactive (L) azo/CT

EXPAND in /CT Thesaurus for the CA Lexicon (cont'd)

```

E26      0          NT1  Eriochrome Black T/CT
E27      0          NT1  Methyl orange/CT
E28      0          NT1  Methyl red/CT
E29      0          NT1  Naphthol Blue Black/CT
E30      0          NT1  New Coccine/CT
E31      0          NT1  Pigment Yellow 12/CT
E32      391       NT1  Reactive azo dyes/CT
E33      0          NT2  4-(2-Sulfatoethylsulfonyl)aniline/CT
E34      0          NT2  Dyes, reactive (L) azo, water-sol./CT
E35      0          NT1  Sunset Yellow/CT
E36      0          NT1  Tartrazine/CT
E37      0          NT1  Trypan Blue/CT
E38      9748      RT   Pigments, nonbiological/CT
E39      131       RT   Stains, coloring materials/CT
*****  END  *****

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

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E1      2904385  -->  PREP/RL
E2      2904385  Preparation/RL
          NOTE Vol. 66 (1967) 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      45970    NT1  BMF/RL
E4      0        NT1  BMF valid Vol. 66 (1967) to present/RL
E5      75869    NT1  BPN/RL
E6      0        NT1  BPN valid Vol. 66 (1967) to present/RL
E7      22114    NT1  BYP/RL
E8      0        NT1  BYP valid Vol. 66 (1967) to present/RL
E9      277      NT1  CPN/RL
E10     0        NT1  CPN valid Vol. 136 (2002) to present/RL
E11     319657   NT1  IMF/RL
E12     0        NT1  IMF valid Vol. 66 (1967) to present/RL
E13     103958   NT1  PNU/RL
E14     0        NT1  PNU valid Vol. 66 (1967) to present/RL
E15     165835   NT1  PUR/RL
E16     0        NT1  PUR valid Vol. 66 (1967) to present/RL
E17     1494836  NT1  SPN/RL
E18     0        NT1  SPN valid Vol. 66 (1967) to present/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      15862    NAME DOW CHEMICAL CO/CO
E2      54      -->  DOW CHEMICAL/CO
*****  END  *****

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=> E E1+ALL

```

E1      0        CNUM CAS1000235/CO
E2      15862    -->  DOW CHEMICAL CO/CO
          NOTES 1839: Bakelite Corp. merged into Union Carbide
          and Carbon Corp.
          1897: Dow Chemical Co. incorporated

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

1900: Midland Chemical Co. merged into Dow Chemical Co.
 1917: Union Carbide & Carbon Corp. incorporated
 1920: Carbide and Carbon Chemicals Corp. established
 1933: Ethyl Dow Co. formed
 1942: Dow Chemical of Canada organized
 1957: Company changed name to Union Carbide Corp.
 1989: DowElanco formed
 1998: Sentrachem Ltd. integrated
 1997: Dow Chemical Co. acquired full ownership of Dow
 Mitsubishi Chemical Ltd.
 1999: Angus Chemical Company acquired
 2001: Union Carbide merged into Dow Chemical Co.

E3	32	RT1	ANGUS CHEMICAL CO/CO
E4	21	RT2	ANGUS CHEMICAL COMPANY/CO
E5	30	RT1	BAKELITE AG/CO
E6	23	RT2	BAKELITE A G/CO
E7	28	RT1	BAKELITE BUILDING PRODUCTS CO/CO
E8	6	RT1	BAKELITE BUILDING PRODUCTS CO INC/CO
E9	406	RT1	BAKELITE CORP/CO
E10	11	RT2	BAKELITE CORPORATION/CO
E11	2	RT1	BAKELITE GMBH/CO
E12	116	RT2	BAKELITE G M B H/CO
E13	147	RT1	BAKELITE LTD/CO
E14	69	RT1	BAKELITE XYLONITE LTD/CO
E15	15	RT1	CARBIDE AND CARBON CHEMICALS CO/CO
E16	555	RT1	CARBIDE AND CARBON CHEMICALS CORP/CO
E17	54	RT1	CARBIDE AND CARBON CHEMICALS LTD/CO
E18	1	RT1	CARBIDE AND CHEMICALS CORP/CO
E19	248	RT1	CARBIDE CARBON CHEMICALS CORP/CO
E20	3	RT2	CARBIDE CARBON CHEMICALS CORPORATION/CO
E21	0	RT1	CARBIDE CHEMICALS CORP/CO
E22	12	RT1	CLIFFS DOW CHEMICAL CO/CO
E23	4	RT1	DOW/CO
E24	4	RT1	DOW AGROSCIENCES CANADA INC/CO
E25	172	RT1	DOW AGROSCIENCES LLC/CO
E26	3	RT2	DOW AGROSCIENCES L L C/CO
E27	15	RT1	DOW BENELUX NV/CO
E28	75	RT2	DOW BENELUX N V/CO
E29	54	RT1	DOW CHEMICAL/CO
E30	3	RT1	DOW CHEMICAL AUSTRALIA LTD/CO
E31	1	RT2	DOW CHEMICAL AUSTRALIA LIMITED/CO
E32	0	RT1	DOW CHEMICAL BELGIUM SA/CO
E33	3	RT2	DOW CHEMICAL BELGIUM S A/CO
E34	2	RT1	DOW CHEMICAL CO INC/CO
E35	36	RT1	DOW CHEMICAL CO LTD/CO
E36	718	RT1	DOW CHEMICAL COMPANY/CO
E37	7	RT1	DOW CHEMICAL CORP/CO
E38	0	RT1	DOW CHEMICAL EUROPE SA/CO
E39	13	RT2	DOW CHEMICAL EUROPE S A/CO
E40	2	RT1	DOW CHEMICAL FRANCE/CO
E41	0	RT1	DOW CHEMICAL GMBH/CO
E42	8	RT2	DOW CHEMICAL G M B H/CO
E43	0	RT1	DOW CHEMICAL HANDELS UND VERTRIEBS GMBH/CO
E44	2	RT2	DOW CHEMICAL HANDELS UND VERTRIEBS G M B H/CO
E45	0	RT1	DOW CHEMICAL HELLAS AE/CO
E46	1	RT2	DOW CHEMICAL HELLAS A E/CO
E47	0	RT1	DOW CHEMICAL IBERICA SA/CO
E48	2	RT2	DOW CHEMICAL IBERICA S A/CO
E49	1	RT1	DOW CHEMICAL INVESTMENT AND FINANCE CORP/CO
E50	30	RT1	DOW CHEMICAL JAPAN CO LTD/CO
E51	0	RT1	DOW CHEMICAL JAPAN KK/CO

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

E52	2	RT2 DOW CHEMICAL JAPAN K K/CO
E53	0	RT1 DOW CHEMICAL NEDERLAND BV/CO
E54	13	RT2 DOW CHEMICAL NEDERLAND B V/CO
E55	21	RT1 DOW CHEMICAL NIPPON/CO
E56	8	RT1 DOW CHEMICAL OF CANADA LTD/CO
E57	0	RT1 DOW CHEMICAL RHEINWERK GMBH/CO
E58	6	RT2 DOW CHEMICAL RHEINWERK G M B H/CO
E59	1	RT1 DOW CONSUMER PRODUCTS INC/CO
E60	5	RT1 DOW DANMARK A S/CO
E61	57	RT1 DOW DEUTSCHLAND INC/CO
E62	22	RT1 DOW ELANCO/CO
E63	18	RT1 DOW EUROPE SA/CO
E64	53	RT2 DOW EUROPE S A/CO
E65	7	RT1 DOW ITALIA SPA/CO
E66	10	RT2 DOW ITALIA S P A/CO
E67	11	RT1 DOW KAKO CO LTD/CO
E68	0	RT1 DOW KAKOH KK/CO
E69	1	RT2 DOW KAKOH KABUSHIKI KAISHA/CO
E70	1	RT1 DOW MITSUBISHI CHEMICAL LTD/CO
E71	32	RT1 DOW MITSUBISHI KASEI LTD/CO
E72	4	RT1 DOW PHARMACEUTICAL SCIENCES/CO
E73	0	RT1 DOW QUIMICA SA/CO
E74	2	RT2 DOW QUIMICA S A/CO
E75	1	RT1 DOW STADE GMBH/CO
E76	2	RT2 DOW STADE G M B H/CO
E77	5	RT1 DOW UNITED TECHNOLOGIES COMPOSITE PRODUCTS INC/CO
E78	0	RT1 DOW UNQUINESA SA/CO
E79	16	RT2 DOW UNQUINESA S A/CO
E80	0	RT1 DOW VERTRIEBS GMBH/CO
E81	1	RT2 DOW VERTRIEBS G M B H/CO
E82	249	RT1 DOWELANCO/CO
E83	0	RT1 ETHYL DOW CO/CO
E84	2	RT1 IO DOW CHEMICAL CO INC/CO
E85	1	RT1 MIDLAND CHEMICAL CO/CO
E86	51	RT1 MURPHY CHEMICAL CO LTD/CO
E87	1	RT2 MURPHY CHEMICAL COMPANY LTD/CO
E88	2	RT1 MURPHY CHEMICAL LTD/CO
E89	74	RT1 OXWELD ACETYLENE CO/CO
E90	1	RT1 SENTRACHEM BIOTECH PTY LTD/CO
E91	39	RT1 SENTRACHEM LTD/CO
E92	1	RT2 SENTRACHEM LIMITED/CO
E93	68	RT1 SUMITOMO DOW KK/CO
E94	54	RT2 SUMITOMO DOW K K/CO
E95	12	RT1 SUMITOMO DOW LTD/CO
E96	21	RT2 SUMITOMO DOW LIMITED/CO
E97	16	RT1 THE BAKELITE CORP/CO
E98	7	RT1 THE CARBIDE AND CARBON CHEMICALS CORP/CO
E99	700	RT1 THE DOW CHEMICAL CO/CO
E100	1076	RT2 THE DOW CHEMICAL COMPANY/CO
E101	2	RT1 THE UNION CARBIDE AND CARBON RESEARCH LABORATORIES INC/CO
E102	26	RT1 UCAR CARBON TECHNOLOGY CORP/CO
E103	28	RT2 UCAR CARBON TECHNOLOGY CORPORATION/CO
E104	103	RT1 UNION CARBIDE/CO
E105	9	RT1 UNION CARBIDE AGRICULTURAL PRODUCTS CO INC/CO
E106	284	RT1 UNION CARBIDE AND CARBON CORP/CO
E107	1	RT1 UNION CARBIDE AND CARBON RESEARCH LABORATORIES/CO
E108	30	RT1 UNION CARBIDE AND CARBON RESEARCH LABORATORIES INC/CO
E109	1	RT1 UNION CARBIDE AUSTRALIA AND NEW ZEALAND LTD/CO
E110	28	RT1 UNION CARBIDE AUSTRALIA LTD/CO
E111	1	RT1 UNION CARBIDE BENELUX NV/CO
E112	7	RT2 UNION CARBIDE BENELUX N V/CO
E113	1	RT1 UNION CARBIDE BRASIL LTDA/CO

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

E114	116	RT1	UNION CARBIDE CANADA LTD/CO
E115	1	RT2	UNION CARBIDE CANADA LIMITED/CO
E116	7	RT1	UNION CARBIDE CARBON CO/CO
E117	529	RT1	UNION CARBIDE CARBON CORP/CO
E118	1	RT1	UNION CARBIDE CARBON RESEARCH LABORATORIES/CO
E119	10	RT1	UNION CARBIDE CARBON RESEARCH LABORATORIES INC/CO
E120	197	RT1	UNION CARBIDE CHEMICALS AND PLASTICS CO INC/CO
E121	7	RT2	UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC/CO
E122	235	RT1	UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CORP/CO
E123	65	RT2	UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CORPORATION/CO
E124	79	RT1	UNION CARBIDE CHEMICALS PLASTICS TECHNOLOGY CORP/CO
E125	242	RT2	UNION CARBIDE CHEMICALS PLASTICS TECHNOLOGY CORPORATION/CO
E126	49	RT1	UNION CARBIDE CO/CO
E127	14	RT1	UNION CARBIDE COATINGS SERVICES TECHNOLOGY CORP/CO
E128	12862	RT1	UNION CARBIDE CORP/CO
E129	0	RT1	UNION CARBIDE DEUTSCHLAND GMBH/CO
E130	1	RT2	UNION CARBIDE DEUTSCHLAND G M B H/CO
E131	2	RT1	UNION CARBIDE DO BRASIL LTDA/CO
E132	2	RT1	UNION CARBIDE EUROPE SA/CO
E133	34	RT2	UNION CARBIDE EUROPE S A/CO
E134	0	RT1	UNION CARBIDE EUROPEAN RESEARCH ASSOCIATES SA/CO
E135	3	RT2	UNION CARBIDE EUROPEAN RESEARCH ASSOCIATES S A/CO
E136	75	RT1	UNION CARBIDE INDIA LTD/CO
E137	56	RT1	UNION CARBIDE INDUSTRIAL GASES TECHNOLOGY CORP/CO
E138	0	RT1	UNION CARBIDE IRAN SA/CO
E139	1	RT2	UNION CARBIDE IRAN S A/CO
E140	5	RT1	UNION CARBIDE LTD/CO
E141	1	RT1	UNION CARBIDE MARBLE CARE INC/CO
E142	4	RT1	UNION CARBIDE SALES CO/CO
E143	0	RT1	UNION CARBIDE SERVICES KK/CO
E144	1	RT2	UNION CARBIDE SERVICES K K/CO
E145	1	RT1	UNION CARBIDE SOUTH AFRICA PTY LTD/CO
E146	6	RT1	UNION CARBIDE UK LTD/CO
E147	2	RT1	WESTERN CARBIDE CORP/CO
E148	1218	JV1	ASAHI DOW LTD/CO
E149	17	JV1	CARGILL DOW LLC/CO
E150	0	JV2	CARGILL DOW POLYMERS L L C/CO
E151	9	JV2	CARGILL DOW POLYMERS LLC/CO
E152	1	JV1	DOW REICHHOLD SPECIALTY LATEX LLC/CO
E153	6	JV1	DUPONT DOW ELASTOMERS LLC/CO
E154	89	JV2	DUPONT DOW ELASTOMERS L L C/CO

***** END *****

EXPAND in the International Patent Classification (/IPC) Thesaurus

=> E A23G001-00/IPC

E#	FREQUENCY	AT	TERM
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E1	6861	1	A23G/IPC
E2	1505		A23G0001/IPC
E3	1402	2 -->	A23G0001-00/IPC
E4	86	2	A23G0001-02/IPC
E5	104	2	A23G0001-04/IPC
E6	1		A23G0001-05/IPC
E7	9	2	A23G0001-06/IPC
E8	1	2	A23G0001-08/IPC
E9	1		A23G0001-09/IPC
E10	17	2	A23G0001-10/IPC
E11	4	2	A23G0001-12/IPC
E12	0	2	A23G0001-14/IPC

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

=> E E3+ALL

E1	6861	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.
E2	1402	-->	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)
E3	86	NT1	A23G0001-02/IPC . Preliminary treatment, e.g. fermentation of cocoa (machines for roasting cocoa A23N0012-00) CORE VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E4	104	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 apparatus in general B02C) CORE VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E5	9	NT2	A23G0001-06/IPC . . Apparatus for preparing or treating cocoa beans or nibs ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E6	1	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)
E7	17	NT2	A23G0001-10/IPC . . Mixing apparatus; Roller mills for preparing chocolate ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E8	4	NT2	A23G0001-12/IPC . . Chocolate-refining mills, i.e. roll refiners ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E9	0	NT2	A23G0001-14/IPC . . Longitudinal conches ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E10	3	NT2	A23G0001-16/IPC . . Circular conches ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E11	21	NT2	A23G0001-18/IPC . . Apparatus for conditioning chocolate masses for moulding ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)

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

E12	31	NT2	A23G0001-20/IPC . . Apparatus for moulding, cutting, or dispensing chocolate ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E13	4	NT3	A23G0001-21/IPC . . . Apparatus for moulding hollow products, open shells or other articles having cavities, e.g. open cavities ADVANCED VALID FROM 19800101 TO PRESENT (IPC EDITION: 3-8)
E14	23	NT3	A23G0001-22/IPC . . . Chocolate moulds (A23G0001-21 takes precedence) ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E15	0	NT3	A23G0001-24/IPC . . . Tapping or jolting tables ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E16	1	NT3	A23G0001-26/IPC . . . Conveying devices for chocolate moulds ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E17	2	NT3	A23G0001-28/IPC . . . Apparatus for removing chocolate from the moulds (discharging baked goods from tins A21B0003-18) ADVANCED VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8)
E18	12	NT1	A23G0001-30/IPC . Cocoa products, e.g. chocolate; Substitutes therefor CORE VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E19	0	NT2	A23G0001-32/IPC . . characterised by the composition ADVANCED VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E20	0	NT3	A23G0001-34/IPC . . . Cocoa substitutes ADVANCED VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E21	0	NT3	A23G0001-36/IPC . . . characterised by the fats used (containing dairy products A23G0001-46) ADVANCED VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E22	0	NT4	A23G0001-38/IPC Cocoa butter substitutes ADVANCED VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E23	0	NT3	A23G0001-40/IPC . . . characterised by the carbohydrates used, e.g. polysaccharides (containing dairy products A23G0001-46) ADVANCED VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)
E24	0	NT3	A23G0001-42/IPC . . . containing micro-organisms or enzymes; containing paramedical or dietetical agents, e.g. vitamins (containing dairy products A23G0001-46) ADVANCED VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)

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

E25 1 NT3 A23G0001-44/IPC
. . . containing peptides or proteins (containing dairy products A23G0001-46)
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)

E26 0 NT3 A23G0001-46/IPC
. . . containing dairy products
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)

E27 0 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)

E28 0 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)

E29 0 NT3 A23G0001-52/IPC
. . . Aerated, foamed, cellular or porous products
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)

E30 0 NT3 A23G0001-54/IPC
. . . Composite products, e.g. layered, coated, filled
ADVANCED
VALID FROM 20060101 TO PRESENT (IPC EDITION: 8)

E31 1 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 *****

In North America

CAS
STN North America
P.O. Box 3012
Columbus, Ohio 43210-0012 U.S.A.

CAS Customer Care:
Phone: 800-753-4227 (North America)
614-447-3700 (worldwide)
Fax: 614-447-3751
E-mail: help@cas.org
Internet: www.cas.org

In Europe

FIZ Karlsruhe
STN Europe
P.O. Box 2465
76012 Karlsruhe
Germany
Phone: +49-7247-808-555
Fax: +49-7247-808-259
E-mail: helpdesk@fiz-karlsruhe.de
Internet: www.stn-international.de

In Japan

JAICI (Japan Association for International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-3600
E-mail: support@jaici.or.jp (Technical Service)
customer@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp