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|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-------------------------------------|----------------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|-------------------------------------|-----------------------------------|-------------------------------------|------------|-------------------------------------|----------------------------|-------------------------------------|
| Subject Coverage | <ul style="list-style-type: none"> • Applied chemistry • Chemical engineering • Macromolecular chemistry • Organic chemistry • Biochemistry • Analytical chemistry | | | | | | | | | | | | | | | | | | |
| File Type | Bibliographic | | | | | | | | | | | | | | | | | | |
| Features | <p>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)</p> <p>Alerts (SDIs) Daily, weekly, biweekly</p> <table border="0"> <tr> <td>CAS Registry Numbers[®]</td> <td><input checked="" type="checkbox"/></td> <td>Page Images</td> <td><input checked="" type="checkbox"/></td> <td>STN AnaVist</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> <td>STN Easy</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> <td>STN Viewer</td> <td><input checked="" type="checkbox"/></td> </tr> </table> | CAS Registry Numbers[®] | <input checked="" type="checkbox"/> | Page Images | <input checked="" type="checkbox"/> | STN AnaVist | <input checked="" type="checkbox"/> | Keep & Share | <input checked="" type="checkbox"/> | SLART | <input checked="" type="checkbox"/> | STN Easy | <input checked="" type="checkbox"/> | Learning Database | <input checked="" type="checkbox"/> | Structures | <input checked="" type="checkbox"/> | STN Viewer | <input checked="" type="checkbox"/> |
| CAS Registry Numbers[®] | <input checked="" type="checkbox"/> | Page Images | <input checked="" type="checkbox"/> | STN AnaVist | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| Keep & Share | <input checked="" type="checkbox"/> | SLART | <input checked="" type="checkbox"/> | STN Easy | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| Learning Database | <input checked="" type="checkbox"/> | Structures | <input checked="" type="checkbox"/> | STN Viewer | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | |
| File Size | More than 31.5 million records (10/09) | | | | | | | | | | | | | | | | | | |
| Coverage | 1907-present plus over 134,000 pre-1907 records | | | | | | | | | | | | | | | | | | |
| Updates | <p>Daily updates with bibliographic data (approx. 3000 new records)</p> <p>Weekly updates with indexing data (approx. 14,000 records)</p> | | | | | | | | | | | | | | | | | | |
| Language | English | | | | | | | | | | | | | | | | | | |
| Database Producer | <p>Chemical Abstracts Service P.O. Box 3012 Columbus, Ohio 43210-0012 USA Phone: 614-447-3700 Fax: 614-447-3751</p> | | | | | | | | | | | | | | | | | | |

Sources

- Journals: Over 10,000 journals are monitored. All articles from nearly 1500 key chemical journals covered since 1994. Bibliographic information and available abstracts for the articles from key journals are added within 1 week of journal receipt. New bibliographic records are added daily.
 - Patents <http://www.cas.org/expertise/cascontent/caplus/patcoverage/>
 - 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](#)
 - [ALLBIB](#)
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Related Databases

- [CA](#)
-

Pricing

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

Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (*).

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 Author (inventor) | /AN /AU | S 1966:508061/AN S LEHNINGER A?/AU S (DUCHEYNE P?(S)EDITOR#)/AU S ANON/AU | AN, DN AU, IN |
| CA Section Cross Reference (number and title) (1,2) | /SX | S 1/SX S ANALYTICAL/SX S RADIATION CHEMISTRY/SX | CC |
| Classification Code (contains CA section-subsection number, if available, section title, and section group codes) (2,3) | /CC | S 1/CC S 80-6/CC S TOXICOLOGY/CC S RADIATION CHEMISTRY/CC S L1 AND BIO/CC | CC |
| Company Name (3) Controlled Term (3,4) Controlled Word (4) Corporate Source (organization name, patent assignee) (2) | /CO /CT /CW /CS | E DOW CHEMICAL/CO S ANTITUMOR AGENTS/CT S OPTIC?/CW S DOW/CS S DOW CHEM MIDLAND/CS S "DOW CORNING"?/CS | CO, CS, PA CT, IT CT, IT CS, PA |
| Country of Author Document Number Document Type (code and text) | /CYA /DN /DT (or /TC) | S USA/CYA S 41:39650/DN S P/DT S PATENT/DT S REVIEW/DT S NEWS ANNOUNCEMENT/DT | CS, CYA, PA DN DT |
| Entry Date (5) | /ED | S ED>20060211 S ED>FEB 11, 2006 | ED |
| Field Availability File Segment | /FA /FS | S L1 AND ABS/FA S BIO/FS AND L2 S L1 NOT NONINDEXED/FS S NOSECTION/FS | Not displayed FS |
| Index Term * (6) | /IT | S 75-28-5(2W)CRACKING OF/IT IT S DETN OF/IT | |
| International Standard (Document) Number (contains CODEN, ISBN, and ISSN) (7) | /ISN | S JOCRAM/ISN S 0021-9673/ISN | ISN, SO |
| Issue Number of Publication (5,8) Journal Title | /IS /JT | S 1-3/IS AND 32/VL S J CHROMATOGR/JT S COMPT REND?/JT S IP.COM JOURNAL/JT | SO JT, SO |
| Language (code and text) (9) | /LA | S L1 AND EN/LA S L1 AND ENGLISH/LA S L1 NOT DE/LA | LA |

General Search Fields (cont'd)

| Search Field Name | Search Code | Search Examples | Display Codes |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Original Reference Number (10) Other Source (1) Publication Date (5) | /OREF /OS /PD | S 63:5967A/OREF S L1 AND MARPAT/OS S PD>20010400 S JUNE 1992-SEPT 1993/PD | OREF OS PI, SO |
| Publication Year (5) Publisher (2) Publisher Item Identifier (1) Role (1,3) | /PY /PB /PUI /RL | S 1947-1949/PY S ACADEMIC/PB S "S 0014-5793(96)01227-6"/PUI S 99685-96-8(L)SPN/RL S 99685-96-8/SPN S FULLERENES(L)SPN/RL S FULLERENES/SPN | PI, PY, SO PB PUI IT, RL |
| 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) (11) | /SO | S INORG CHEM/SO S JOCRAM/SO S 0021-9673/SO S AM CERAM SOC/SO S 1992/SO S ACS ASAP/SO S IP COM JOURNAL/SO | SO |
| Supplementary Term * (1) Title * | /ST /TI | S LIVER METAB?/ST S LIVER/TI S SPIN SPIN/TI | ST TI |
| Uniform Resource Locator (1) | /URL | S (METABOLISME(S)VEGETAUX)/TI 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>20060400 S UP>APRIL 1, 2006 | Not displayed |
| Update Date, Addition of Registered Substance (5) | /UPIT | S L2 AND UPIT>20080200 | Not displayed |
| Update Date, CA Abstract Number and Indexing (5) | /UPI | S L1 AND UPI>=200800 | Not displayed |
| Update Date, Maximum (5) | /UPM | S L1 AND UPM>=200803 | 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.
- (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 match the index headings in the CA Lexicon. Unmatched pre-1967 subject headings are searchable as single words in the /IT and /BI fields.
- (5) Numeric search field that may be searched with numeric operators or ranges.
- (6) Stopwords are not removed from this field.
- (7) ISBNs are included only for records added since December 17, 2001.
- (8) Content available only for records from 1963 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 1907-1998.
- (11) Searching ACS ASAP/SO gives access to the ACS journal 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 become 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.

Patent Search Fields

| Search Field Name | Search Code | Search Examples | Display Codes |
|---------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------|-------------------------------|
| Country Number Count (1) | /CYC ((CY.CNT) | S L1 AND 4-5/CYC | CY.CNT |
| Designated States (2) | /DS | S FR/DS S R DE/DS | DS, PI |
| Designated States, Basic (2) | /DS.B | S DE/DS.B | DS, PI |
| European Classifications (3) | /ECLA (or /EPC or /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 |
| F-Terms (Patent Classifications from the Japanese Patent Office) (4) | /FTERM (or /FTCLA or /JPCLA) | S 4C002/BB03/FTERM S 4C002/FTERM | CLASS, FTERM, FTCLA, JPCLA |
| International Patent Classification, Action Date (1) | /IPC.ACD | S 20050101/IPC.ACD | IPC.TAB |
| International Patent Classification, Additional or Supplementary (2,7) | /ICA | S B01J/ICA S B01J027/ICA S CYANOGEN/ICA | ICA, CLASS |
| International Patent Classification, All (5) | /IPC | S A61K/IPC S A61K0031-473/IPC | IPC, CLASS |
| International Patent Classification, Basic Patent (6) | /IPC.B | S G01N0001-28/IPC.B | IPC.B, CLASS |
| International Patent Classification, Index or Complementary (2,6) | /ICI | S A61K/ICI S A61K031/ICI S AMMONIA/ICI | ICI, CLASS |
| 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, CLASS |
| International Patent Classification, Main and Secondary (2,6) | /IC | S C07C/IC S C07C015/IC S C07C015-04/IC S CYANOGEN/IC | IC, CLASS |
| International Patent Classification, Main Group, Range Searchable (1,2,6) | /MGR | S 10-20/MGR(S)C07C/IC | IC, CLASS |
| International Patent Classification, Secondary (2,6) | /ICS | S C02F/ICS S C02F001/ICS S AMMONIA/ICS | IC, ICS, CLASS |
| International Patent Classification, Subgroup, Range Searchable (1,2,7) | /SGR | S SGR=>30000(S)C01B031/IC | IC, CLASS |
| International Patent Classification, Version | /IPC.VER | S 6/IPC.VER | IPC.TAB |
| International Patent Initial Classification | /IPCI | S H01L0023-29/IPCI | IPCI, CLASS |

Patent Search Fields (cont'd)

| Search Field Name | Search Code | Search Examples | Display Codes |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| International Patent Reclassification Inventor National Patent Classification, Current (8) | /IPCR /IN /NCL | S C08L0061-00/IPCR S PATTON JERRY R/IN S 106035000/NCL S 106/035.000/NCL S 433/227-433/229/NCL S ZEOLITES/NCL | IPCR, CLASS IN NCL, CLASS |
| National Patent Classification, Issue (9) | /INCL | S 433228000/INCL S 433/227-433/229/INCL S 433/228.000/INCL | INCL, CLASS |
| National Patent Classification, Issue, Range Searchable (1) | /NCLR | S 106020000-106040000/NCLR | NCL, CLASS |
| Patent Application Country Patent Application Country, Basic Patent Application Date (1,10) | /AC /AC.B /AD | S DE/AC S DE/AC.B S AD>19920100 S AD>JANUARY 20, 1993 | AI, PI AI, PI AI, PI |
| Patent Application Date, Basic (1,10) Patent Application Number (2,11) | /AD.B /AP | S 19970220/AD.B S EP83-304630/AP S 83EP-0304630/AP S JP87-10001/AP S 87JP-0010001/AP S JP87-10001/AP.B | AI, PI AI, PI |
| Patent Application Number, Basic (2,11) Patent Application Year (1,10) Patent Application Year, Basic (1,10) Patent Assignee (12) | /AP.B /AY /AY.B /PA | S 1990-1992/AY S AY.B>1997 S PFIZER/PA S PFIZER CORP/PA S BADISCHE ANILIN/PA OR BASF/PA | AI, PI AI, PI PA |
| Patent Country Patent Country, Basic Patent Kind Code (2) Patent Kind Code, Basic (2) Patent Number (11) | /PC /PC.B /PK /PK.B /PN | S WO/PC S JP/PC.B S DEA1/PK S DEA1/PK.B S EP536930/PN S EP-536930/PN S WO8402426/PN S JP04000104/PN S JP62000031/PN S IP6243D/PN | PI PI PI PI PI |
| Patent Number, Basic (11) Patent Number Count (1) | /PN.B /PNC (PN.CNT) | S JP60008341/PN.B S 3/PNC | PI PN.CNT |
| Priority Application Country Priority Application Country, Basic Priority Application Date (1,10) | /PRC /PRC.B /PRD | S US/PRC S US/PRC.B S PRD>19910600 S June 20 1991/PRD S PRD.B>19940100 | PRAI PRAI PRAI |
| Priority Application Date, Basic (1,10) Priority Application Number (2,11,13) | /PRD.B /PRN | S US91-635890/PRN S 91US-0635890/PRN S IP2002-6243D/PRN | PRAI PRAI |
| Priority Application Number, Basic (2,11,13) | /PRN.B | S US91-721765/PRN.B | PRAI |

Patent Search Fields (cont'd)

| Search Field Name | Search Code | Search Examples | Display Codes |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------|----------------------|
| Priority Application Year (1,10) Priority Application Year, Basic (1,10) | /PRY /PRY.B | S 1990-1992/PRY S 1997/PRY.B | PRAI PRAI |
| Publication Date (Patent, Basic) (1) Publication Year (Patent, Basic) (1) Update Date Patent Family (1,2) Update Date, Maximum (contains /UP and /UPP) (1,2) | /PD.B /PY.B /UPP /UPM | S 19980109/PD.B S 1990-1991/PY.B S US5837509/PN AND UPP>19990100 S L1 and UPM>=20040400 | PI PI PI 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 pre-IPC Reform and post-IPC Reform IPCS for the basic patents.
- (7) 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.
- (8) 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.
- (9) 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.
- (10) Data are available from 1962 (Volume 56) to the present.
- (11) Either STN or Derwent format may be used.
- (12) Search with implied (S) proximity is available in this field.
- (13) 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 |
|-----------------------------------------------------|-------------|-----------------|---------------------------------------------------------------------------------------------------|---------------|
| Old version of the /IPC super search field (1) | /IPC.OLD | /IC, /ICA, /ICI | S A01B/IPC/OLD S A01B001/IPC.OLD | IC, ICA, ICI |
| Patent Application and Priority Number (2,3) | /APPS | /AP, /PRN | S DE84-3400052/APPS S 84DE-3400052/APPS | AI, PI, PRAI |
| Patent Application and Priority Number, Basic (2,3) | /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 (3) | /PATS | /PN | S EP536930/PATS S EP-536930/PATS S WO8402426/PATS S JP04000104/PATS S JP62000031/PATS | PI, SO |
| Patent Numbers, Basic (3) | /PATS.B | /PN.B | S WO9850074/PATS.B | PI, SO |

- (1) Numeric search field that may be searched with numeric operators or ranges.
- (2) Content of this field is available only for records from 1967 to the present.
- (3) Either STN or Derwent format may be used.

CAplus**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, and 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 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 (contains year, volume, issue, page, and publication title) (2) | /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 |

(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 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, and then followed by /REG, e.g., SEARCH 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 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 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 (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 |
| NOTE | Note (SELF, NOTE) | E ANGUS CHEMICAL COMPANY+NAME/CO |
| RT | Related Term (SELF, RT, NAME, NOTE) | E ANGUS CHEMICAL COMPANY+NOTE/CO E CANON INC+RT/CO |

Field Descriptors for the /CO Thesaurus Search Aid

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

Controlled Term (/CT) Thesaurus for the CA Lexicon

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

All Relationship Codes may be used with both the SEARCH and EXPAND commands 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 (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 (/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 | Example |
|----------|--------------------------------------------------|--------------------------|
| ALL | All Associated Terms (BT, SELF, TI, NT) | E 4K001/AA16+ALL/FTERM |
| BRO (n) | Browse n preceding and following Classifications | E 4K001/AA20+BRO3/FTERM |
| BT | Broader Terms (BT, SELF) | E 4K001/AA25+BT/FTERM |
| HIE | Hierarchy (BT, SELF, NT) | E 4K001/AA14+HIE/FTERM |
| NEXT (n) | Next n Classifications | E 4K001/AA16+NEXT5/FTERM |
| NT | Narrower Terms (SELF, NT) | E 4K001+NT/FTERM |
| PREV (n) | Previous n Classifications | E 5K002+PREV3/FTERM |
| TI | Complete Title of the SELF Term | E 4K001/AA07+TI/FTERM |

Field Descriptors for the F-Term Thesaurus

| Code | Description |
|------|---------------|
| → | Self |
| BT | Broader Term |
| NT | Narrower Term |
| TI | 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 |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALL ADV BRO (MAN) BT COR ED HIE INDEX KT NEXT NT PREV RT (SIB) TI | All Associated Terms (BT, SELF, NT, RT) Advanced Terms (SELF, ADVANCED) 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 C01C003-00+ALL/IPC E A01N0047-02+ADV/IPC E C01C+BRO/IPC E C01F001-00+BT/IPC E A01N0047-04+COR/IPC E C01F001-00+ED/IPC E C01C003-00+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 | Example |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALL BRO (n) BT HIE KT NEXT (n) NT PREV (n) TI | All Associated Terms (BT, SELF, TI, NT) Browse n preceding and following Classifications Broader Terms (BT, SELF) Hierarchy (BT, SELF, NT) Keyword Terms (SELF, KT) (1) Next n Classifications Narrower Terms (SELF, NT) Previous n Classifications Complete Title of the SELF Term | E 210190000+ALL/NCL E 502060000+BRO3/NCL E 502060000+BT/NCL E 502060000+HIE/NCL E ZEOLITES+KT/NCL E 210660000+NEXT5/NCL E 502060000+NT/NCL E 210665000+PREV3/NCL 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 (SELF, BT) | E CAT+BT/RL |
| HIE | Hierarchy Terms (Broader and Narrower Terms) (BT, SELF, NT) | E FFD+HIE/RL |
| NOTE | Any Notes (role definitions) (SELF, NOTE) | E IMF+NOTE/RL |
| NT | Narrower Terms (SELF, NT) | E USES+NT/RL |

Field Descriptors for the Role Thesaurus

| Code | Description |
|------|---------------|
| → | Self |
| BT | Broader Term |
| NOTE | Note |
| NT | Narrower Term |

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 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.

| 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, Document 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 |

DISPLAY and PRINT Formats (cont'd)

| Format | Content | Examples |
|----------------------|-----------------------------------------------------------------------------------|--------------------|
| DN | Document Number (CA Reference Number) | D DN |
| 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) | 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 |
| IPC.B | IPC of the Basic Patent | D IPC.B |
| IPC.TAB | IPC, Tabular Display | D IPC.TAB |
| IPC.UNIQ | IPC codes unique for a basic patent and equivalents | D IPC.UNIQ |
| IPCI | IPC Initial Classification | D IPCI |
| IPCR | IPC Reclassification | D IPCR |
| ISN (2) | International Standard (Document) Number | D ISN |
| IT (4) | Index Term and Role | D AN IT |
| JT (2) | Journal Title | D JT |
| JTA (2) | Journal Title, Abbreviated | D JTA |
| JTF (2,6) | Journal Title, Full | D JTF 1-3 |
| LA | Language | D LA |
| LSUS (2) | Legal status information for U.S. patents | D LSUS |
| NCL | National Patent Classification, Current | D PI IC NCL |
| OREF (5) | Original Reference Number | D OREF |
| OS | Other Source | D TI OS |
| OS.G (OS.CITING.AN) | Citing Reference Accession Numbers | D OS.G |
| OSC.G (CITING.CNT) | Citing Reference Count | D OSC.G |
| PA | Patent Assignee | D PA |
| PB | Publisher | D PB |
| PI (PN) (1) | Patent Information Table | D TI 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 TI PY |
| PY.B (2) | Publication Year, Basic | D TI PY.B |
| RE (5) | Cited References | D TI RE |
| RETABLE (2,5) | Cited References Table | D TI AU RETABLE |
| RE.CNT (REC) (5) | Cited References Count | D REC |
| RL (4) | Index Term and Role | D RL |
| RN (2) | CAS Registry Number | D AN RN |
| SO | Source | D TI AU SO |
| ST | Supplementary Term (CA Keyword) | D ST |
| SX (2,7) | CA Section Cross Reference Code | D TI SX |
| TI | Title of Document | DIS TI 1-10 |
| UPOS.G (CITING.UP) | Date Last Citing Reference Entered STN | D OS.G |
| URL (2) | Uniform Resource Locator | D URL |

DISPLAY and PRINT Formats (cont'd)

| Format | Content | Examples |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ABS ALL (1,4) | 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.CNT, RE | D ABS D 1-30 ALL |
| APPS (1) BIB (1) | AI, PRAI AN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS, OSC.G, RE.CNT (BIB is the default) | D APPS D 1 3 |
| CAN CBIB (1) CLASS | List of CA Abstract Numbers, no L-number headers AN, DN, OREF, plus compressed bibliographic data Classifications (IPC, ECLA, and FTERM codes) associated with basic patent and family members | D CAN D L2 1 CBIB D CLASS |
| DALL (1,4) DMAX (1,4) FAM | ALL, delimited for post-processing MAX, delimited for post-processing AN, DN, FAN.CNT, PI for the accession number, plus PI for other family accession numbers | D DALL D MAX D FAM |
| FAN FBIB (1) IABS IALL (1,4) IBIB IC IMAX (1,4) IND (4) IPC IPC.TAB IPC.UNIQ IPCI IPCR ISTD (1) MAX (1,4) OBIB (1) | 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, NCL, CC, ST, IT, RL IPC, for the basic patent and patent family members 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 BIB, Original, without patent family data (AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, PI, DS, AI, PRAI, DT, LA, OS) | D FAN D FBIB D IABS D IALL D IBIB D PI IC D IMAX D TI IND D L2 1 IPC D IPC.TAB D IPC.UNIQ D IPCI D IPCR D ISTD D MAX D OBIB |
| OIBIB (1) OSG OSG.MAX OS.GMAX PAGE (8) PATS (1) SAM (4) SCAN (4,5,9) | 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 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 RE.CNT (AN, DN, OREF, TI, AU, IN, CS, PA, SO, PB, DT, LA, FAN.CNT, PI, PRAI, OS) SBIB, indented with text labels AN, DN, 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 |
| XML | BIB AB in XML format | D XML |

DISPLAY and PRINT Formats (cont'd)

| Format | Content | Examples |
|---------|----------------------------------------------------------------------------------------------------------|-------------------|
| FHITSEQ | First hit CAS Registry Number, its role, text modification, its CA index name, and the sequence diagram | D CBIB FHITSEQ |
| FHITSTR | First hit CAS Registry Number, its role, text modification, its CA index name, and the structure diagram | D CBIB FHITSTR |
| HIT | Fields containing hit terms | D HIT 1-5 |
| HITIND | IC (ICM, ICS), ICA, ICI, NCL, CC, ST, IT, and RL containing hit terms | D HITIND |
| HITRN | Hit CAS Registry Number, its role, and text modification | D HITRN |
| HITSEQ | Hit CAS Registry Number, its role, text modification, its CA index name, and its sequence diagram | D HITSTR KWIC |
| HITSTR | Hit CAS Registry Number, its role, text modification, its CA index name, and its structure diagram | D HITSTR KWIC |
| IPC.HIT | Hit IPC | D IPC.HIT |
| KWIC | Hit terms plus 20 words on either side (Key-Word-In-Context) | D 1-7 TI KWIC |
| OCC (5) | Number of occurrences of hit terms and fields in which they occur | 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 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) 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.
- (5) No online display fee for this format.
- (6) Full journal titles are available for most records.
- (7) SX displays all information in the CC field, i.e., CA section and section cross-references.
- (8) 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.
- (9) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

Displaying CAplus 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.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 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 (2) | 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 (3) | N |
| Citation | CIT | Y (4,5) | N |
| Cited References | RE | N | N |
| Cited Reference(n) | RE(n) | Y | N |
| Cited References Table | RETABLE | Y | N |
| Cited Reference Accession Number in CAplus | RAN.CAPLUS | Y (6) | N |
| Cited Reference Accession Number(n) in CAplus | RAN.CAPLUS(n) | Y (6) | N |
| Cited Reference Accession Number in MEDLINE | RAN.MED | Y (6) | N |
| Cited Reference Accession Number(n) in MEDLINE | RAN.MED(n) | Y (6) | N |
| Cited Reference Author Name | RAU | Y | 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 (7) | 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 of Author | CYA | Y | Y |
| Designated States | DS | Y | N |
| Designated States, Basic | DS.B | Y (5,8) | N |
| Document Number | DN | Y | N |
| Document Type | DT | Y | Y |
| Entry Date | ED | Y | Y |
| European Classifications | ECLA | Y | N |
| Family Accession Number | FAN | Y (5,6) | N |
| File Forming Terms | FTERM | Y | N |
| File Segment | FS | Y | Y |
| HIT Cited Reference | HITRE | N | Y |
| Index Term | IT | Y | N |
| International Standard Book Number | ISBN | Y (7) | Y |
| International Standard (Document) Number | ISN | Y | N |
| International Standard Serial Number | ISSN | Y (7) | Y |
| Inventor Name | IN | Y | Y |
| IPC, All | IPC | Y (9) | N |
| IPC, Initial Classification | IPC1 | Y | N |
| IPC, Reclassification | IPCR | Y | N |
| IPC, Additional or Supplementary | ICA | Y | Y |
| IPC, Advanced | IPC.A | Y (9) | N |

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

| Field Name | Field Code | ANALYZE/ SELECT (1) | SORT |
|-----------------------------------------------|------------|------------------------|------|
| IPC, Advanced Level for Invention | IPC.AI | Y (9) | N |
| IPC, Basic Patent | IPC.B | Y | N |
| IPC, Core | IPC.C | Y (9) | N |
| IPC, Core Level for Invention | IPC.CI | Y (9) | N |
| IPC, First | IPC.F | Y (9) | 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 (10) | Y |
| Journal Title, Full | JTF | Y (10) | Y |
| Language | LA | Y | Y |
| National Patent Classification, Current | NCL | Y | N |
| Occurrence of Hit Terms | OCC | N | Y |
| Original Reference Number | OREF | Y (5,6) | N |
| Other Source | OS | Y | Y |
| Patent Application Country | AC | Y (5) | Y |
| Patent Application Country, Basic | AC.B | Y (5,11) | Y |
| Patent Application Date | AD | Y (5) | Y |
| Patent Application Date, Basic | AD.B | Y (12) | Y |
| Patent Application Information | AI | Y (5,13,14) | Y |
| Patent Application Information, Basic | AI.B | Y (13,14) | Y |
| Patent Application Number | AP | Y (5,14) | Y |
| Patent Application Number, Basic | AP.B | Y (5,13,14) | Y |
| Patent Application and Priority Number | APPS | Y (5,13,15) | N |
| Patent Application and Priority Number, Basic | APPS.B | Y (13,15) | N |
| Patent Application Year | AY | Y | Y |
| Patent Application Year, Basic | AY.B | Y (16) | Y |
| Patent Assignee | PA | Y | Y |
| Patent Countries | PCS | Y (5,17) | N |
| Patent Countries, Basic | PCS.B | Y (5,17) | N |
| Patent Country | PC | Y (5) | Y |
| Patent Country, Basic | PC.B | Y (5,18) | Y |
| Patent Country Count | CYC | Y (19) | N |
| Patent Information | PI | Y (5,14,20) | Y |
| Patent Information, Basic | PI.B | Y (14,20) | Y |
| Patent Kind Code | PK | Y (5) | Y |
| Patent Kind Code, Basic | PK.B | Y (5,21) | Y |
| Patent Number | PN | Y (5,14) | Y |
| Patent Number, Basic | PATS | Y (5,14,22) | N |
| | PN.B | Y (14,23) | Y |
| | PATS.B | Y (5,14,22) | N |
| Patent Number Count | PNC | Y (24) | N |
| Priority Application Country | PRC | Y (5) | Y |
| Priority Application Country, Basic | PRC.B | Y (5,25) | Y |
| Priority Application Date | PRD | Y (5) | Y |
| Priority Application Date, Basic | PRD.B | Y (26) | Y |
| Priority Application Information | PRAI | Y (5,14,27) | Y |
| Priority Application Information, Basic | PRAI.B | Y (14,27) | Y |
| Priority Application Number | PRN | Y (5,14) | Y |
| Priority Application Number, Basic | PRN.B | Y (14,27) | Y |

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

| Field Name | Field Code | ANALYZE/ SELECT (1) | SORT |
|----------------------------------|------------|------------------------|------|
| Priority Application Year | PRY | Y (5) | Y |
| Priority Application Year, Basic | PRY.B | Y (5,28) | Y |
| Publication Date | PD | Y (5) | Y |
| Publication Date, Basic | PD.B | Y (5,29) | Y |
| Publication Year | PY | Y | Y |
| Publication Year, Basic | PY.B | Y (30) | Y |
| Publisher | PB | Y | N |
| Publisher Item Identifier | PUI | Y | N |
| Role | RL | Y (5) | N |
| Source of Document | SO | Y (31) | N |
| Supplementary Term | ST | Y | N |
| Title | TI | Y (default) | Y |
| Treatment Code | TC | Y (32) | 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) Selects or analyzes AN and DN and appends /AN to the terms created by SELECT.
- (3) Appends /BI to the terms created by SELECT.
- (4) Extracts first author, publication year, volume, and first page with a truncation symbol appended and with /RE appended to the terms created by SELECT.
- (5) SELECT HIT and ANALYZE HIT are not valid with this field.
- (6) Appends /AN to the terms created by SELECT.
- (7) Appends /ISN to the terms created by SELECT.
- (8) Appends /DS to the terms created by SELECT.
- (9) Selects specified IPC codes and appends /IPC to the terms created by SELECT.
- (10) Appends /JT to the terms created by SELECT.
- (11) Appends /AC to the terms created by SELECT.
- (12) Appends /AD to the terms created by SELECT.
- (13) Appends /AP to the terms created by SELECT.
- (14) Enter SET PATENT DERWENT at an arrow prompt to SELECT or ANALYZE patent, application, and priority numbers in Derwent format.
- (15) Appends /APPS to the terms created by SELECT.
- (16) Appends /AY to the terms created by SELECT.
- (17) Appends /PCS to the terms created by SELECT.
- (18) Appends /PC to the terms created by SELECT.
- (19) Appends /CY.CNT to the terms created by SELECT.
- (20) Appends /PN to the terms created by SELECT.
- (21) Appends /PK to the terms created by SELECT.
- (22) Appends /PATS to the terms created by SELECT.
- (23) Appends /PN to the terms created by SELECT.
- (24) Appends /PN.CNT to the terms created by SELECT.
- (25) Appends /PRC to the terms created by SELECT.
- (26) Appends /PRD to the terms created by SELECT.
- (27) Appends /PRN to the terms created by SELECT.
- (28) Appends /PRY to the terms created by SELECT.
- (29) Appends /PD to the terms created by SELECT.
- (30) Appends /PY to the terms created by SELECT.
- (31) Selects or analyzes CODEN and the ISSN and appends /SO to the terms created by SELECT.
- (32) 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 ALL (7CI PATENT RECORD)

ANSWER 1 CAPLUS COPYRIGHT 2006 ACS on STN

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 66000403 | | 19660722 | NL | |
| PRAI | US | | 19650121 | | |

CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|------------|-------|---------------------------------------------------------------------------------------------------------------------|
| NL 6600403 | IC | C07C |
| | IPCI | C07C |
| | IPCR | 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, 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)

CAplus**DISPLAY BIB LSUS (Patent)**

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2008:1028668 CAPLUS [Full-text](#)
 DN 149:264451
 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)

DISPLAY ALL (PRE-1907 JOURNAL RECORD)

ANSWER 1 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1906:419 CAPLUS

DN 0:419

TI CIII. - A new synthesis of phloroglucinol

AU Jerdan, David Smiles

CS University Chemical Laboratory, Heidelberg, Germany

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

CODEN: JCHTA3

DT Journal

LA English

CC 10 (Organic Chemistry)

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

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 2005275330 | ICM | H01J001-14 |
| | ICS | H01J001-02 |
| | INCL | 313311000 |
| | IPCI | H01J0001-14 [ICM,7]; H01J0001-13 [ICM,7,C*]; H01J0001-02 [ICS,7] |
| | NCL | 313/311.000 |
| US 2003168957 | IPCI | H01J0001-14 [ICM,7]; H01J0001-13 [ICM,7,C*]; H01J0019-06 [ICS,7]; H01J0019-00 [ICS,7,C*] |
| | 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; H01J001/304D; H01J009/02B2 |
| US 2004066127 | IPCI | H01J0019-06 [ICM,7]; H01J0019-00 [ICM,7,C*]; H01J0001-38 [ICS,7]; H01J0001-05 [ICS,7]; H01J0001-02 [ICS,7,C*]; H01J0001-48 [ICS,7]; H01J0001-00 [ICS,7,C*]; H01J0001-14 [ICS,7]; H01J0001-13 [ICS,7,C*] |
| | 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; H01J001/304D; H01J009/02B2 |
| US 2005151464 | IPCI | H05B0033-14 [ICM,7]; H05B0033-22 [ICS,7] |
| | IPCR | H05B0033-14 [I,A]; H05B0033-14 [I,C*]; H05B0033-22 [I,A]; H05B0033-22 [I,C*] |
| | NCL | 313/503.000 |

DISPLAY IPC.TAB

PI US 2005275330

| IPCI CODE | VERSION | POS | INV | LEVEL | CC ASSIGNMENT | DATE | STAT |
|-------------|---------|-----------|-----|-------|---------------|----------|------|
| H01J0001-14 | (7) | Main | | | US Human | 20051215 | O |
| H01J0001-13 | (7) | Main | | Core* | RC Machine | 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 |
| H01J0001-13 | (7) | Main | | Core* | RC Machine | 20030911 | O |
| H01J0019-06 | (7) | Secondary | | | US Human | 20030911 | O |
| H01J0019-00 | (7) | Secondary | | Core* | RC Machine | 20030911 | O |

| IPCR CODE | VERSION | POS | INV | LEVEL | CC ASSIGNMENT | DATE | STAT |
|--------------|----------|-----|-----|----------|---------------|----------|------|
| C01B0031-00 | (200601) | | I | Core* | EP Machine | 20051008 | R |
| C01B0031-06 | (200601) | | I | Advanced | EP Machine | 20051008 | R |
| H01J0001-13 | (200601) | | I | Core* | EP Machine | 20051008 | R |
| H01J0001-14 | (200601) | | I | Advanced | EP Machine | 20051008 | R |
| H01J0001-30 | (200601) | | I | Core* | EP Machine | 20051008 | R |
| H01J0001-304 | (200601) | | I | Advanced | EP Machine | 20051008 | R |

PI US 2004066127

| IPCI CODE | VERSION | POS | INV | LEVEL | CC ASSIGNMENT | DATE | STAT |
|-------------|---------|-----------|-----|-------|---------------|----------|------|
| H01J0019-06 | (7) | Main | | | US Human | 20040408 | O |
| H01J0019-00 | (7) | Main | | Core* | RC Machine | 20040408 | O |
| H01J0001-38 | (7) | Secondary | | | US Human | 20040408 | O |
| H01J0001-05 | (7) | Secondary | | | US Human | 20040408 | O |
| H01J0001-02 | (7) | Secondary | | Core* | RC Machine | 20040408 | O |
| H01J0001-48 | (7) | Secondary | | | US Human | 20040408 | O |
| H01J0001-00 | (7) | Secondary | | Core* | RC Machine | 20040408 | O |
| H01J0001-14 | (7) | Secondary | | | US Human | 20040408 | O |
| H01J0001-13 | (7) | Secondary | | Core* | RC Machine | 20040408 | O |

| IPCR CODE | VERSION | POS | INV | LEVEL | CC ASSIGNMENT | DATE | STAT |
|--------------|----------|-----|-----|----------|---------------|----------|------|
| C01B0031-00 | (200601) | | I | Core* | EP Machine | 20051008 | R |
| C01B0031-06 | (200601) | | I | Advanced | EP Machine | 20051008 | R |
| H01J0001-13 | (200601) | | I | Core* | EP Machine | 20051008 | R |
| H01J0001-14 | (200601) | | I | Advanced | EP Machine | 20051008 | R |
| H01J0001-30 | (200601) | | I | Core* | EP Machine | 20051008 | R |
| H01J0001-304 | (200601) | | I | Advanced | EP Machine | 20051008 | R |

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 |

| IPCR CODE | VERSION | POS | INV | LEVEL | CC ASSIGNMENT | DATE | STAT |
|-------------|----------|-----|-----|----------|---------------|----------|------|
| H05B0033-14 | (200601) | | I | Advanced | EP Machine | 20051206 | R |
| H05B0033-14 | (200601) | | I | Core* | EP Machine | 20051206 | R |
| H05B0033-22 | (200601) | | I | Advanced | EP Machine | 20051206 | R |
| H05B0033-22 | (200601) | | I | Core* | EP Machine | 20051206 | R |

CAplus**EXPAND in the /IPC Thesaurus**=> **E H01J0001-304/IPC**

| E# | FREQUENCY | AT | TERM |
|-----|-----------|----|----------------------|
| -- | ----- | -- | ----- |
| E1 | 0 | 1 | H01J0001-3/IPC |
| E2 | 3737 | 2 | H01J0001-30/IPC |
| E3 | 1638 | 2 | --> H01J0001-304/IPC |
| E4 | 1 | | H01J0001-307/IPC |
| E5 | 119 | 2 | H01J0001-308/IPC |
| E6 | 256 | 2 | H01J0001-312/IPC |
| E7 | 396 | 2 | H01J0001-316/IPC |
| E8 | 149 | 2 | H01J0001-32/IPC |
| E9 | 294 | 2 | H01J0001-34/IPC |
| E10 | 26 | 2 | H01J0001-35/IPC |
| E11 | 20 | 2 | H01J0001-36/IPC |
| E12 | 61 | 2 | H01J0001-38/IPC |

=> **E E3+HIE**

| | | | |
|----|-------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E1 | 0 | BT6 | H0/IPC |
| E2 | 0 | BT5 | H01/IPC |
| | | | BASIC ELECTRIC ELEMENTS |
| E3 | 68278 | BT4 | H01J/IPC |
| | | | ELECTRIC DISCHARGE TUBES OR DISCHARGE LAMPS (spark-gaps H01T; arc lamps with consumable electrodes H05B; particle accelerators H05H) |
| E4 | 3747 | BT3 | H01J0001-00/IPC |
| | | | Details of electrodes, of magnetic control means, of screens, or of the mounting or spacing thereof, common to two or more basic types of discharge tubes or lamps (details of electron-optical arrangements or of ion traps H01J0003-00) |
| | | | CORE |
| | | | VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8) |
| E5 | 929 | BT2 | H01J0001-02/IPC |
| | | | . Main electrodes |
| | | | CORE |
| | | | VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8) |
| E6 | 3737 | BT1 | H01J0001-30/IPC |
| | | | . . Cold cathodes |
| | | | CORE |
| | | | VALID FROM 19680901 TO PRESENT (IPC EDITION: 1-8) |
| E7 | 1638 | --> | H01J0001-304/IPC |
| | | | . . . Field-emissive cathodes |
| | | | ADVANCED |
| | | | VALID FROM 20000101 TO PRESENT (IPC EDITION: 7-8) |

***** END *****

EXPAND in the /RL Thesaurus

=> E PREP+ALL/RL

```

E1      2904926  -->  PREP/RL
E2      2904926  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      45965    NT1  BMF/RL
E4      0        NT1  BMF valid Vol. 66 (1967) to present/RL
E5      76017    NT1  BPN/RL
E6      0        NT1  BPN valid Vol. 66 (1967) to present/RL
E7      22115    NT1  BYP/RL
E8      0        NT1  BYP valid Vol. 66 (1967) to present/RL
E9      282      NT1  CPN/RL
E10     0        NT1  CPN valid Vol. 136 (2002) to present/RL
E11     319691   NT1  IMF/RL
E12     0        NT1  IMF valid Vol. 66 (1967) to present/RL
E13     103987   NT1  PNU/RL
E14     0        NT1  PNU valid Vol. 66 (1967) to present/RL
E15     165877   NT1  PUR/RL
E16     0        NT1  PUR valid Vol. 66 (1967) to present/RL
E17     1495118  NT1  SPN/RL
E18     0        NT1  SPN valid Vol. 66 (1967) to present/RL
*****  END  *****

```

EXPAND in the /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      98      BT1  Helianthus/CT
E8      18729   BT2  Feed/CT
E9      0       BT1  Plant-derived feed (non-CA heading)/CT
E10     7174   -->  Sunflower/CT
          HN  Valid heading during volume 66 (1967) to
          present.
E11     7       OLD  Sunflowers/CT
E12     0       UF   Helianthus annuus/CT
E13     1       NT1  Sunflower (Helianthus annuus jaegeri)/CT
E14     0       NT1  Sunflower (Helianthus annuus
          lenticularis)/CT

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CAplus

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

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E15      1          NT1 Sunflower (Helianthus annuus
macrocarpus)/CT
E16      1          NT1 Sunflower (Helianthus annuus texanus)/CT
E17      1          NT1 Sunflower (L) H. annuus lenticularis/CT
E18      1          NT1 Sunflower (L) H. annuus texanus/CT
E19      1          NT1 Sunflower (L) Helianthus annuus
lenticularis/CT
E20      1          NT1 Sunflower (L) Helianthus annuus
texanus/CT
E21      625       RT Sunflower meal/CT
E22      7026      RT Sunflower oil/CT
***** END *****

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=> E AZO DYES+ALL/CT

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E1      29841      BT2 Organic compounds/CT
E2      2308       BT1 Azo compounds/CT
E3      9145       BT3 Materials/CT
E4      4165       BT2 Coloring materials/CT
E5      64316      BT1 Dyes/CT
E6      2661       --> Azo dyes/CT
          HN 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     0          NT1 Dyes, azo (L) acid/CT
E16     0          NT1 Dyes, azo (L) basic/CT
E17     0          NT1 Dyes, azo (L) bis-/CT
E18     0          NT1 Dyes, azo (L) cationic/CT
E19     0          NT1 Dyes, azo (L) dichroic/CT
E20     0          NT1 Dyes, azo (L) direct/CT
E21     0          NT1 Dyes, azo (L) disperse/CT
E22     0          NT1 Dyes, azo (L) intermediates/CT
E23     0          NT1 Dyes, azo (L) polymerizable/CT
E24     0          NT1 Dyes, azo (L) water-sol./CT
E25     0          NT1 Dyes, reactive (L) azo/CT
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     393        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     9755      RT Pigments, nonbiological/CT
E39     133       RT Stains, coloring materials/CT
***** END *****

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EXPAND in the CA Section Thesaurus (/CC)

=> E CERAMICS+ALL/CC

E1 316576 --> CERAMICS/CC
E2 1858 USE 17 CERAMICS, 1962 ONLY/CC
E3 9756 USE 21 CERAMICS, 1963-1966/CC
E4 299793 USE 57 CERAMICS, 1967 TO PRESENT/CC
***** END *****

=> E E4+ALL

E1 4758482 BT1 APPLIED/CC
E2 299793 --> 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 *****

CAplus**EXPAND in the Company Name (/CO) Thesaurus Search Aid**

=> E DOW CHEMICAL+NAME/CO

E1 15877 NAME DOW CHEMICAL CO/CO
 E2 63 --> DOW CHEMICAL/CO
 ***** END *****

=> E E1+ALL

E1 0 CNUM CAS1000235/CO
 E2 15877 --> DOW CHEMICAL CO/CO
 NOTES 1839: Bakelite Corp. merged into Union Carbide
 and Carbon Corp.
 1897: Dow Chemical Co. incorporated
 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 22 RT2 ANGUS CHEMICAL COMPANY/CO
 E5 31 RT1 BAKELITE AG/CO
 E6 25 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 196 RT1 DOW AGROSCIENCES LLC/CO
 E26 4 RT2 DOW AGROSCIENCES L L C/CO
 E27 16 RT1 DOW BENELUX NV/CO
 E28 78 RT2 DOW BENELUX N V/CO
 E29 63 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

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

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 243 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 12869 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 35 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 20 JV1 CARGILL DOW LLC/CO
E150 0 JV2 CARGILL DOW POLYMERS L L C/CO
E151 11 JV2 CARGILL DOW POLYMERS LLC/CO
E152 2 JV1 DOW REICHHOLD SPECIALTY LATEX LLC/CO
E153 7 JV1 DUPONT DOW ELASTOMERS LLC/CO
E154 108 JV2 DUPONT DOW ELASTOMERS L L C/CO
***** END *****

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