LCA[SM]

Subject Coverage

- Analytical chemistry
- Applied chemistry
- Biochemistry
- Chemical engineering
- Macromolecular chemistry
- Organic chemistry

File Type

Bibliographic

Features

Thesauri	Classification Code (/CC), Cooperative Patent Classification (/CPC), European Patent Classification (/ECLA), F-Term (/FTERM), ICO (in-computer-only) Classification (/ICO), International Patent Classifications (/IPC), National Patent Classifications Current (/NCL), and Role (/RL)				
CAS Registry Number® Identifiers	☑	Learning Database	☑	SLART	☑
Keep & Share	☑	Page Images	☐	Structures	☑

Record Content

- **LCA** is a static, training database for learning how to use the CA database
- 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
- Patent classifications: IPC, CPC, ECLA, ICO, NCL and FTERM

File Size

64,658 records (2/2016)

Coverage

References from eight weekly issues of Chemical Abstracts (CA), two each from 1969, 1974, 1979 and 1984 (representing the 8th, 9th, 10th and 11th Collective Index periods), as well as references from LCASREACT (1987-1988). Additional records have been added to illustrate new features and functionality.

Updates

None

Language

English

Database Producer

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Columbus, Ohio 43210-0012 USA
Phone: 800-753-4227 (North America)
Phone: 614-447-3700 (worldwide)
Fax: 614-447-3751
Email: help@cas.org

Sources	Journals, patents, technical reports, books, conference proceedings and dissertations from all areas of chemistry and chemical engineering worldwide.
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Clusters	LEARNING STN Database Clusters information
Related Databases	• CA • CAPLUS
Pricing	Enter HELP COST at an arrow prompt (=>).

Search and Display Field Codes

General Search Fields

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

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index * (contains single words from title (TI), supplementary terms (ST), index terms (IT), abstracts (AB), as well as CAS Registry Numbers)	None (or /BI or /IA)	S 50-21-5 S ?ASSAY? S MAGNETIC RECORD? S (WATER (S) OIL)/BI	AB, IT, ST, TI
Abstract *	/AB	S (WATER(1W)OIL)/AB S LD50/AB S HIGH TEMP?/AB S (HEPATITIS(S)ANTIGEN)/AB	AB
Accession Number	/AN	S 101:103341/AN	AN
Author (inventor)	/AU	S JONES D?/AU S (HEINEMAN W? (S) EDITOR#)/AU S ANON/AU S ET AL/AU	AU, IN
CA Section Cross-Reference (number and title) **(1)**	/SX	S 1/SX S ANALYTICAL/SX S ANALYTICAL CHEMISTRY/SX	CC
Classification Code **(1,5)** (contains CA section- subsection number, section title, and section group codes)	/CC (or /SC)	S 1/CC S 80-6/CC S TOXICOLOGY/CC S RADIATION CHEMISTRY/CC S L1 AND BIO/CC	CC
Controlled Term	/CT	S NEOPLASM INHIB?/CT	CT, IT
Controlled Word	/CW	S OPTIC?/CW	CT, IT
Corporate Source **(1)** (organization name and location)	/CS	S BAYER/CS S MERRELL DOW/CS S USA DOW/CS S DOW CHEM MIDLAND/CS S "DOW CORNING"?/CS	CS, PA
Country of Author	/CYA	S USA/CYA	CS, CYA, PA
Crossover Key (CODEN, volume, issue, first page)	/CK	S JACSAT-109-3-862/CK	CK
Digital Object Identifier	/DOI (or /FTDOI)	S 10.1021/?/DOI	DOI, FTDOI
Document Type (code and text)	/DT (or /TC)	S P/DT S PATENT/DT S REVIEW/DT	DT
Entry Date **(2)**	/ED	S 19881224/ED	Not displayed
Field Availability	/FA	S L1 AND ABS/FA	Not displayed
File Segment	/FS	S BIO/FS AND L1	FS
Index Term **(3)**	/IT	S 618-87-1 (S) DETN OF/IT	IT
International Standard (Document) Number (contains CODEN and ISSN)	/ISN	S JOCEAH/ISN S 0008-4212/ISN	ISN, SO
Issue Number of Publication **(2)**	/IS	S 1-3/IS AND 32/VL	SO
Journal Title	/JT	S J ORG CHEM/JT	JT, SO
Language (code and text)	/LA	S L1 AND EN/LA S L1 AND ENGLISH/LA S L1 NOT DE/LA	LA
Other Source	/OS	S L1 AND CASREACT/OS	OS
Publication Date **(2)**	/PD	S PD>19880000 S JUNE 1987-SEPT 1987/PD	PI, SO
Publication Year **(2)**	/PY	S 1983-1984/PY	PI, PY, SO

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Publisher	/PB	S ACADEMIC/PB	PB
Role **(5)**	/RL	S 117638-28-5 (L) SPN/RL S 117638-28-5/SPN S NUCLEOSIDES (L) SPN/RL S NUCLEOSIDES/SPN	IT, RL
Source (contains publication title, date, publisher, conference title, meeting date, volume, issue, pagination, CODEN, and ISSN)	/SO	S INORG CHEM/SO S JOCRAM/SO S 0021-9673/SO S (AM CERAM SOC AND 67)/SO	SO
Supplementary Term	/ST	S LIVER METAB?/ST	ST
Title *	/TI	S LIVER/TI S THIN FILM/TI S (COMPTE(S)RENDU)/TI	TI
Update Date **(2)**	/UP	S 19880415/UP	Not displayed
Volume and Issue of CA	/VI	S 106-15/VI	Not displayed
Volume Number of Publication **(2)**	/VL	S 53-54/VL AND JOCEAH/SO	SO

(1) Search with implied (S) proximity is available in this field.
(2) Numeric search field that may be searched with numeric operators or ranges.
(3) There are no stopwords in this field.
(4) OREF contains the CA volume number and page location information for abstracts published 1907-1966.
(5) A thesaurus is available in this field.

Patent Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Cooperative Patent Classification **(5,6)**	/CPC	S C12N0009/CPC	CPC
Cooperative Patent Classification, Action Date	/CPC.ACD	S 20121113/CPC.ACD	CPC.TAB
Cooperative Patent Classification, Combination Sets	/CPC.CS	S (H01L2224-48091 (S) H01L2924-00014)/CPC.CS	CPC.TAB
Cooperative Patent Classification, Keywords **(6)**	/CPC.KW	S C12N0009/CPC (S) I/CPC.KW	CPC.TAB
Cooperative Patent Classification, Version	/CPC.VER	S 20130101/CPC.VER	CPC.TAB
Country Number Count **(1)**	/CYC	S L1 AND 4-5/CYC	CY.CNT
Designated States	/DS	S FR/DS;S R DE/DS	DS, PI
Designated States, Basic	/DS.B	S DE/DS.B	DS, PI
European Classifications **(5)**	/ECLA (or /EPC or /EPCLA)	S C01B003/ECLA S C01B003/00D2/ECLA	CLASS, ECLA, EPC, EPCLA
European Classification Keywords	/ECLA.KW (or /EPC.KW or /EPCLA.KW)	S A1F1/ECLA.KW	CLASS, ECLA, EPC, EPCLA
Family Accession Number Count **(1)**	/FAN.CNT	S L1 AND FAN.CNT>1	Count displayed
F-Terms (Patent Classifications from the Japanese Patent Office) **(5)**	/FTERM (or /FTCLA or /JPCLA)	S 4C002/BB03/FTERM S 4C002/FTERM	CLASS, FTERM, FTCLA, JPCLA
ICO (in-computer-only) Classification **(5)**	/ICO	S K61B0010:00L10/ICO	ECLA, EPC, EPCLA, ICO
International Patent Classification (includes Main and Secondary IPCs) **(2,5)**	/IC	S C07C/IC S C07C015/IC S C07C015-02/IC S CYANOGEN/IC	IC
International Patent Classification, Additional or Supplementary **(2)**	/ICA	S B01J/ICA S B01J027/ICA S ANTIBIOTIC/ICA	ICA

Patent Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
International Patent Classification, Index or Complementary **(2)**	/ICI	S A61K/ICI S A61K031/ICI S ANTIBIOTIC/ICI	ICI
International Patent Classification, Main Group, Range Searchable **(1)**	/MGR	S 10-20/MGR (S) C07C/IC	IC
International Patent Classification, Secondary **(2)**	/ICS	S G02/ICS	ICS
International Patent Classification, Subgroup, Range Searchable **(1)**	/SGR	S SGR=>30000 (S) C01B031/IC	IC
Inventor Name	/IN	S PATTON JAMES W/IN	IN
National Patent Classification **(5)**	/NCL	S 106039000/NCL	NCL
National Patent Classification, Range Searchable **(1)**	/NCLR	S 106020000-106040000/NCLR	NCL
Patent Application Country	/AC	S DE/AC	AI, PI
Patent Application Country, Basic	/AC.B	S DE/AC.B	AI, PI
Patent Application Date **(1)**	/AD	S AD>19920100 S AD>JANUARY 20, 1993	AI, PI
Patent Application Date, Basic **(1)**	/AD.B	S 19840229/AD.B	AI, PI
Patent Application Number **(3)**	/AP	S EP83-304630/AP S 83EP-0304630/AP	AI, PI
Patent Application Number, Basic **(3)**	/AP.B	S JP83-98897/AP.B	AI, PI
Patent Application Year **(1)**	/AY	S 1990-1992/AY	AI, PI
Patent Application Year, Basic **(1)**	/AY.B	S AY.B>1983	AI, PI
Patent Assignee **(4)**	/PA	S PFIZER/PA S PFIZER CORP/PA S "PFIZER CHAS"?/PA	PA
Patent Country	/PC	S WO/PC	PI
Patent Country, Basic	/PC.B	S JP/PC.B	PI
Patent Kind Code	/PK	S DEA1/PK	PI
Patent Kind Code, Basic	/PK.B	S DEA1/PK.B	PI
Patent Number **(3)**	/PN	S EP69396/PN S EP-69396/PN S WO8402426/PN S JP04000106/PN S JP62000081/PN	PI
Patent Number, Basic **(3)**	/PN.B	S JP68020366/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)**	/PRD	S PRD>19910600 S JULY 1, 1991/PRD	PRAI
Priority Application Date Basic **(1)**	/PRD.B	S PRD.B>19820100	PRAI
Priority Application Number **(3)**	/PRN	S US91-686273/PRN S 91US-0686273/PRN	PRAI
Priority Application Number, Basic **(3)**	/PRN.B	S US83-561152/PRN.B	PRAI
Priority Application Year **(1)**	/PRY	S 1990-1992/PRY	PRAI
Priority Application Year, Basic **(1)**	/PRY.B	S 1982/PRY.B	PRAI
Publication Date (Patent, Basic) **(1)**	/PD.B	S 19660207/PD.B	PI
Publication Year (Patent, Basic) **(1)**	/PY.B	S 1965-1966/PY.B	PI
Update Date Patent Family **(1)**	/UPP	S DE3335588/PN AND UPP>19990100	PI

(1) Numeric search field that may be searched with numeric operators or ranges.
(2) This field contains the classifications and catchwords for main classification subject headings and subheadings from the current (6th) edition of the WIPO International Patent Classifications (IPC) manual. To search the classifications from any of the previous editions (1-5) of the IPC manual, use the field code followed by the edition number, e.g., /IC2, ICA2, /ICS2, /ICM2, /ICI2 for the 2nd edition. Catchwords are included only in the fields for the 6th and 5th editions of the IPC manual.
(3) Either STN format or Derwent format may be used.
(4) Search with implied (S) proximity is available in this field.
(5) A thesaurus is available in this field.
(6) When searching combinations of CPC and CPC.KW data, use (T) proximity operator.

Citing References Search Fields

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

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
Cooperative Patent Classification **(1)**	/CPC	/CPCI, /CPCR	S C09K2200-0655/CPC	CPC, CPCI, CPCR
International Patent Classifications	/IPC	/IC,/ICA,/ICI	S A61K/IPC S A61K049-02/IPC	IC, ICA, ICI
Patent Application and Priority Number **(1)**	/APPS	/AP,/PRN	S DE84-3400096/APPS S 84DE-3400096/APPS	AI, PI, PRAI
Patent Application and Priority Number, Basic **(1)**	/APPS.B	/AP.B,/PRN.B	S DE84-3400096/APPS.B	AI, PI, PRAI
Patent Countries	/PCS	/DS,/PC	S DE/PCS	DS, PI
Patent Countries, Basic	/PCS.B	/DS.B,/PC.B	S AT/PCS.B	DS, PI
Patent Numbers **(1)**	/PATS	/PN	S EP68822/PATS S EP-68822/PATS S WO8402426/PATS S JP04000106/PATS S JP62000081/PATS	PI, SO
Patent Numbers, Basic **(1)**	/PATS.B	/PN.B	S WO8402426/PATS.B	PI, SO

(1) Either STN format or Derwent format may be used.

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

CPC (/CPC) Thesaurus

The Cooperative Patent Classification (CPC) is jointly developed and maintained by the European Patent Office and the US Patent and Trademark Office. This thesaurus is available in the /CPC search field. All relationship codes can be used with both the EXPAND and SEARCH commands.

Relationship Code	Content	Search Examples
ALL	All usually required terms (BT, SELF, CODE, DEF)	E C12M0001-005+ALL/CPC
AUTO **(1)**	Automatic relationship (BT, SELF, CODE, DEF)	E G01J003-443+AUTO/CPC
BT	Broader terms (BT, SELF)	E G01J0003-443+BT/CPC
CODE	Classification Code (SELF, CODE)	E CARTRIDGES+CODE/CPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/CPC
HIE	Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT)	E A01B0001-00+HIE/CPC
KT	Keyword terms (SELF, KT)	E LASER+KT/CPC
MAX	All associated terms	E G01J0003-44+MAX/CPC
NEXT	Next classification within the same class (SELF, NEXT)	E A01B0001-24+NEXT/CPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/CPC
NT	Narrower terms	E G05B0001-04+NT/CPC
PREV	Previous Code within the same class (SELF, PREV)	E G05B0019-00+PREV/CPC
PREV(n)	Previous n classifications within the same class	E G05B0019-00+PREV2/CPC
TI	Complete Title of SELF Term and Broader Terms (BT, SELF)	E G05B0001-03+TI/CPC

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

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

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

Relationship Code	Content	Search Examples
ALL	All associated terms	E C12M0001-34H2+ALL/EPC
AUTO **(1)**	Automatic relationship (BT, SELF, CODE, DEF)	E G01J003-443+AUTO/EPC
BT	Broader terms (BT, SELF, DEF)	E G01J0003-443+BT/EPC
CODE	Classification Code (SELF, CODE)	E SCRAPER BIASING MEANS+CODE/EPC
DEF	Definition (SELF, DEF)	E B65G0045-16+DEF/EPC
HIE	Hierarchy terms (all broader and narrower terms) (BT, SELF, DEF, NT)	E A01B0001+HIE/EPC
KT	Keyword terms (SELF, KT)	E LASER+KT/EPC
MAX	All associated terms	E G01J0003-44B+MAX/EPC
NEXT	Next classification within the same class (SELF, NEXT, DEF)	E A01B0001-24+NEXT/EPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/EPC
NT	Narrower terms (SELF, NT, DEF)	E G05B0001-04+NT/EPC
PREV	Previous Code within the same class (PREV, SELF, DEF)	E G05B0019-418N1+PREV/EPC
PREV(n)	Previous n codes within the same class	E G05B0019-418N1+PREV2/EPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF, DEF)	E G05B0001-03+TI/EPC

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

F-Term Thesaurus

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

Code	Content	Example
ALL	All associated terms (BT, SELF,TI, NT)	E 4K001/AA16+ALL/FTERM
BRO(n) **(1)**	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) **(1)**	Next n Classifications	E 4K001/AA16+NEXT5/NCL
NT	Narrower Terms (SELF, NT)	E 4K001+NT/FTERM
PREV(n) **(1)**	Previous n Classifications	E 5K002+PREV3/FTERM
RT	Related term	E 4K001+RT/FTERM
TI	Complete Title of the SELF Term	E 4K001/AA07+TI/FTERM

(1) When using this code in the F-Term thesaurus, you must specify a number between 1-999 as shown in example.

IPC (/IC, /IC5, ICI, etc.) Thesauri

The classifications and catchwords for the main headings and subheadings from the 6th edition of the WIPO International Patent Classification (IPC) manual are available in the following fields: /IC, /ICA, /ICI, /ICM, and /ICS. The classifications from the previous editions (1-5) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-5, use the field code followed by the edition number, e.g., /IC2, ICA2, /ICS2, /ICM2, /ICI2 for the 2nd edition. Catchwords are included only in the thesauri for the 6th and 5th editions.

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IC
BT	Broader Terms (BT, SELF)	E C01F001-00+BT/IC
HIE	Hierarchy Terms (Broader and Narrower Terms (BT, SELF, NT)	E C01C003-00+HIE/IC
KT	Keyword Terms (catchwords) (SELF, KT)	E CYANOGEN+KT/IC
NEXT	Next Classification	E C01C001-00+NEXT5/IC
NT	Narrower Terms	E C01C+NT/IC
PREV	Previous Classification	E C01C001-12+PREV10/IC
BRO (MAN)	Complete Class	E C01C+BRO/IC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IC

National Patent Classification Thesaurus

A thesaurus is present for the National Patent Classification (/NCL) fields.

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

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

Role (/RL) Thesaurus

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

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

DISPLAY and PRINT Formats

Any combination of display formats listed below may be used to display 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 in the order requested.

The PRINT command is not valid in this file.

There are no display fees in this file.

Hit-term highlighting is available in all fields except FAN and FS. Highlighting must be on during SEARCH in order to use the FHITSTR, HIT, HITIND, HITRN, HITSTR, KWIC, and OCC display formats.

Format	Content	Examples
AB	Abstract Text	D TI AB
AI (AP) **(1)**	Patent Application Information	D AI PI
AI.B (AP.B) **(1)**	Patent Application Information, Basic	D AI.B
AN	Accession Number	D 1-5 AN
AU	Author Name	D AU, TI
CC (SC)	CA Classification Code (CA section and section cross-references)	D CC
CK **(2)**	Crossover Key (CODEN, volume, issue, first page)	D CK
CPC	Cooperative Patent Classification	D CPC
CPC.TAB	CPC, Tabular Display	D CPC.TAB
CPC.UNIQ	CPC codes unique for a basic patent and equivalents	D CPC.UNIQ
CPCI	CPC Initial Classification	D CPCI
CPCR	CPC Reclassification	D CPCR
CS	Corporate Source	D TI AU CS
CT **(2)**	Controlled Term	D CT
CUR **(8)**	Patent Currency Status	D CUR ALL
CYA **(2)**	Country of Author	D CYA
CYC (CY.CNT) **(2)**	Patent Country Count	D CYC
DOI (FTDOI)	Digital Object Identifier	D DOI
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
FS **(2)**	File Segment (Section Group)	D FS
FTERM	File Forming Terms from the Japanese Patent Office associated with patent numbers	D FTERM
GI **(3)**	Graphic Image or Graphic Image Information	D GI
IC	International Patent Classification, Main and Secondary	D PI IC
ICA	Additional or Supplementary IPC	D ICA
ICI	Index or Complementary IPC	D ICI
ICM	Main IPC	D ICM
ICO	ICO Classification	D ICO
ICS	Secondary IPC	D ICS
IN	Inventor Name	D IN
INCL	Issued National Classification	D INCL
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)**	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	D AI PI IC NCL
OREF **(7)**	Original Reference Number	D OREF
OS	Other Source	D TI OS
OS.G (OS.CITING.AN)	Citing Reference Accession Numbers	D OS.G

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
OSC.G (CITING.CNT)	Citing Reference Count	D OSC.G
PA	Patent Assignee	D PA
PB	Publisher	D PB
PI **(1)**	Patent Information	D TI PI
PI.B (PN.B) **(1,2)**	Patent Information, Basic	D PI.B
PN	Patent Number	D PN
PNC (PN.CNT) **(2)**	Patent Number Count	D PNC
PRAI (PRN) **(1)**	Priority Application Information	D AI PRAI;D PRN
PRAI.B (PRN.B) **(1,2)**	Priority Application Information, Basic	D PRAI.B
PY **(2)**	Publication Year	D TI PY
PY.B **(2)**	Publication Year, Basic	D TI PY.B
RE **(7)**	Cited References	D TI RE
RE.CNT (REC) **(7)**	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 Keywords)	D ST
SX **(2,5)**	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
ABS **(3)**	GI, AB	D ABS
ALL **(1,3,4)**	AN, OREF, TI, AU, IN, CS, PA, SO, DOI, DT, LA, FAN.CNT, INCL, PI, PRAI, CLASS, OS, GI, AB, CC, ST, IT, RL, OSC.G, UPOS.G, OS.G, RE, RE.CNT	D 1-30 ALL
APPS **(1)**	AI, PRAI	D APPS
APPS.B **(1,2)**	AI.B, PRAI.B	D APPS.B
BIB **(1)**	AN, OREF, TI, AU, IN, CS, PA, SO, DOI, DT, LA, FAN.CTN, PI, PRAI, OS, OSC.G, RE.CNT (BIB is the default)	D 1,3 BIB D 1 3
CAN	List of CA abstract numbers without answer numbers	D 1-10 CAN
CBIB	AN, plus Compressed Bibliographic Data	D L2 1 CBIB
CLASS	Classifications (IPC, CPC, NCL, ECLA, and FTERM codes) associated with basic patent and family members	D CLASS
CPC	CPCI, CPCR, for the basic patent and patent family members	D CPC
CPC.TAB	CPC, CPC.KW, CPC.ACD, CPC.VER in tabular format	D CPC.TAB
CPC.UNIQ	Deduplicated list of CPC codes for the patent family	D CPC.UNIQ
DALL **(1,3,4)**	ALL, delimited for post-processing	D DALL
DMAX **(1,3,4)**	MAX, delimited for post-processing	D MAX
FAM **(1)**	AN, FAN.CNT, PI for the accession number, plus PI for other family accession numbers	D FAM
FAN	Family Accession Number (AN, FAN.CNT, FAN)	D FAN
FBIB **(1)**	BIB plus PI for other family accession numbers	D FBIB
IABS **(3)**	ABS, with text labels	D IABS
IALL **(1,3,4)**	ALL, indented with text labels	D IALL
IBIB **(1)**	BIB, indented with text labels	D IBIB
IMAX **(1,3,4)**	MAX, indented with text labels	D IMAX
IND **(4)**	INCL, IPCI, IPCR, CPCI, CPCR, NCL, ECLA, ICO, FTERM, CC, ST, IT, RL	D TI IND
IPC	International Patent Classification (IC (ICS), ICA, ICI)	D L2 1 IPC
IPC.TAB	IPC, Tabular Display	D IPC.TAB
IPC.UNIQ	IPC codes unique for a basic patent and equivalents	D IPC.UNIQ
ISTD **(1)**	STD, indented with text labels	D ISTD
MAX **(1,3,4)**	ALL, plus PI for other family accession numbers	D MAX
OBIB **(1)**	BIB, Original (AN, OREF, TI, AU, IN, CS, PA, SO, DOI, PI, PRAI, DT, LA, OS)	D OBIB
OIBIB **(1)**	OBIB, indented with text labels	D OIBIB
OSG	OSC.G, UPOS.G, OS.G (up to 50 accession numbers)	D OSG
OSG.MAX	OSC.G, UPOS.G, and OS.G (up to 1020 accession numbers)	D OSG.MAX
OS.GMAX	OS.G (up to 1020 accession numbers)	D OS.GMAX

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
PATS **(1)**	SO, PI	D PATS
SAM **(4)**	INCL, IPCI, IPCR, CPCI, CPCR, NCL, ECLA, ICO, CC, TI, ST, IT, RL	DIS SAM 1-5
SCAN **(6)**	NCL, IPCI, CPCI, CPCR, NCL, ECLA, ICO, FTERM, CC, TI, ST, IT fields will appear if available (random display, no answer numbers)	D SCAN
STD **(1)**	AN, OREF, TI, AU, IN, CS, PA, SO, DOI, PB, DT, LA, FAN.CNT, PI, PRAI, CLASS, OS, OSC.G, RE.CNT	D STD
FHITSTR **(4)**	First hit CAS Registry Number, its role, text modification, its CA index name, and the structure diagram	D CBIB FHITSTR
CPC.HIT (HITCPC)	HIT display of CPC code searched	D CPC.HIT or D HITCPC
HIT	Fields containing hit terms	D HIT 1-5
HITIND **(4)**	INCL, IPCI, IPCR, NCL, CC, ST, IT, RL containing hit terms	D HITIND
HITRN **(4)**	Hit CAS Registry Number, its role, and text modification	D HITRN
HITSTR **(4)**	Hit CAS Registry Number, its role, text modification, its CA index name, and its structure diagram	D HITSTR KWIC
IPC.HIT (HITIPC)	Hit IPC	D IPC.HIT or D HITPIC
KWIC	Hit terms plus 20 words on either side (Key-Word-In-Context)	D 1-7 TI
OCC	Number of occurrences of hit terms and fields in which they occur	D OCC

(1) By default, patent numbers, application and priority numbers are displayed in STN format. To display them in Derwent format, enter SET PATENT DERWENT at an arrow prompt. To reset display to STN format, enter SET PATENT STN.
(2) Custom display only.
(3) Structure diagrams in abstracts in the GI (Graphics Image) field are available only on graphics terminals and in offline prints.
(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) SX displays all information in the CC field, i.e., CA section and section cross-references.
(6) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.
(7) No online display fee for this format.
(8) CUR must be entered on the command line, e.g., D CUR. The patent status information displays before the requested records.

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	Y	N
Cited Reference Count	RE.CNT (REC)	Y	Y
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 **(5)**	Y
Controlled Term	CT	Y	N
CPC Classification	CPC	Y	N

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

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
CPC, Initial	CPCI	Y	N
CPC, Reclassified	CPCR	Y	N
CPC Hit Display	CPC.HIT (HITCPC)	N	Y
CPC Codes Deduplicated for patent family	CPC.UNIQ	N	Y
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
Crossover Key	CK	Y	Y
Designated States	DS	Y	N
Designated States, Basic	DS.B	Y **(4,6)**	N
Digital Object Identifier	DOI (FTDOI)	N	Y
Document Type	DT	Y	Y
European Classifications	ECLA (EPC, EPCLA)	Y	N
Family Accession Number	FAN	Y **(4,7)**	N
File Forming Terms	FTERM (FTCLA, JPCLA)	Y	N
File Segment	FS	Y **(4)**	Y
ICO Classification	ICO	Y	N
Index Term	IT	Y	N
International Standard (Document) Number	ISN	Y **(8)**	N
International Standard Serial Number	ISSN	Y **(9)**	Y
Inventor Name	IN	Y	Y
IPC	IPC	Y **(10)**	N
IPC, Additional or Supplementary	ICA	Y	Y
IPC, Index or Complementary	ICI	Y	Y
IPC, Main and Secondary	IC	Y	Y
IPC, Secondary	ICS	Y	Y
Journal Title	JT	Y	Y
Language	LA	Y	Y
National Patent Classification	NCL	Y	Y
Occurrence of Hit Terms	OCC	N	Y
Original Reference Number	OREF	Y **(4,40)**	N
Other Source	OS	Y	Y
Patent Application Country	AC	Y **(4)**	Y
Patent Application Country, Basic	AC.B	Y **(4,11)**	Y
Patent Application Date	AD	Y **(4)**	Y
Patent Application Date, Basic	AD.B	Y **(12)**	Y
Patent Application Information	AI	Y **(4,13,14)**	Y
Patent Application Information, Basic	AI.B	Y **(4,14,15)**	Y
Patent Application Number	AP	Y **(4,14,14)**	Y
Patent Application Number, Basic	AP.B	Y **(4,14,15)**	Y
Patent Application and Priority Number	APPS	Y **(4,14,16)**	N
Patent Application and Priority Number, Basic	APPS.B	Y **(4,14,17)**	N
Patent Application Year	AY	Y	Y
Patent Application Year, Basic	AY.B	Y **(18)**	Y
Patent Assignee	PA	Y	Y
Patent Countries	PCS	Y **(4,19)**	N
Patent Countries, Basic	PCS.B	Y **(4,20)**	N
Patent Country	PC	Y **(4)**	Y
Patent Country, Basic	PC.B	Y **(4,21)**	Y
Patent Country Count	CYC	Y **(22)**	N
Patent Information	PI	Y **(4,14,23)**	Y
Patent Information, Basic	PI.B	Y **(14,24)**	Y
Patent Kind Code	PK	Y **(4)**	Y
Patent Kind Code, Basic	PK.B	Y **(4,25)**	Y
Patent Number	PN	Y **(4,14)**	Y
	PATS	Y **(4,14,26)**	N
Patent Number, Basic	PN.B	Y **(14,27)**	Y
	PATS.B	Y **(14,28)**	N
Patent Number Count	PNC	Y **(29)**	N

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

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Priority Application Country	PRC	Y **(4)**	Y
Priority Application Country, Basic	PRC.B	Y **(4,30)**	Y
Priority Application Date	PRD	Y **(4)**	Y
Priority Application Date, Basic	PRD.B	Y **(31)**	Y
Priority Application Information	PRAI	Y **(4,14,32)**	Y
Priority Application Information, Basic	PRAI.B	Y **(14,33)**	Y
Priority Application Number	PRN	Y **(4,14)**	Y
Priority Application Number, Basic	PRN.B	Y **(14,34)**	Y
Priority Application Year	PRY	Y **(4)**	Y
Priority Application Year, Basic	PRY.B	Y **(35)**	Y
Publication Date	PD	Y **(4)**	Y
Publication Date, Basic	PD.B	Y **(36)**	Y
Publication Year	PY	Y	Y
Publication Year, Basic	PY.B	Y **(37)**	Y
Role	RL	Y **(4)**	N
Source of Document	SO	Y **(38)**	N
Supplementary Term	ST	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y **(39)**	Y

(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) Selects or analyzes the CODEN and appends /ISN to the terms created by SELECT.
(6) Appends /DS to the terms created by SELECT.
(7) Appends /AN to the terms created by SELECT.
(8) Selects or analyzes the CODEN and ISSN and appends /ISN to the terms created by SELECT.
(9) Selects or analyzes the ISSN and appends /ISN to the terms created by SELECT.
(10) Selects or analyzes the IC, ICA, ICI and appends /IPC 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) Selects or analyzes the Patent Application Number and 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) Selects or analyzes Basic Patent Application Number and appends /AP to the terms created by SELECT.
(16) Selects or analyzes the AP and PRN and appends /APPS to the terms created by SELECT.
(17) Selects or analyzes Basic Application and Priority Numbers and appends /APPS to the terms created by SELECT.
(18) Appends /AY to the terms created by SELECT.
(19) Selects or analyzes the country codes from PI and DS and appends /PCS to the terms created by SELECT.
(20) Selects or analyzes country codes from PI.B and DS.B and appends /PCS to the terms created by SELECT.
(21) Appends /PC to the terms created by SELECT.
(22) Appends /CY.CNT to the terms created by SELECT.
(23) Selects or analyzes the Patent Number and appends /PN to the terms created by SELECT.
(24) Selects or analyzes Basic Patent Number and appends /PN to the terms created by SELECT.
(25) Appends /PK to the terms created by SELECT.
(26) Selects or analyzes the Patent Number and appends /PATS to the terms created by SELECT.
(27) Append /PN to the terms created by SELECT.
(28) Selects or analyzes Basic Patent Number and appends /PATS to the terms created by SELECT.
(29) Appends /PN.CNT to the terms created by SELECT.
(30) Appends /PRC to the terms created by SELECT.
(31) Appends /PRD to the terms created by SELECT.
(32) Selects or analyzes the Priority Application Number and appends /PRN to the terms created by SELECT.
(33) Selects or analyzes Basic Priority Application Number and appends /PRN to the terms created by SELECT.
(34) Appends /PRN to the terms created by SELECT.
(35) Appends /PRY to the terms created by SELECT.
(36) Appends /PD to the terms created by SELECT.
(37) Appends /PY to the terms created by SELECT.
(38) Selects or analyzes the CODEN and the ISSN and appends /SO to the terms created by SELECT.
(39) Appends /DT to the terms created by SELECT.
(40) Select or analyzes OREF and appends /AN to the terms created by SELECT.

Sample Records

DISPLAY IALL

```
ACCESSION NUMBER:         101:95170  LCA  Full-text
ORIGINAL REFERENCE NO.:   101:14539a,14542a
ENTRY DATE:               Entered STN:  15 Sep 1984
TITLE:                    Electrolytic treatment of ore slurry
INVENTOR(S):              Neil, Thomas Harold
PATENT ASSIGNEE(S):       Motif Traders Pty. Ltd., Australia
SOURCE:                   Pat. Specif. (Petty) (Aust.), 13 pp.
                          CODEN: AUXXDN
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
CLASSIFICATION:           54-2 (Extractive Metallurgy)
                          Section cross-reference(s): 72
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.        DATE
     ---------------      ----   --------    --------------------   --------
     AU 533833             B3    19840105    AU 1983-21087          19831108
PRIORITY APPLN. INFO.:                       AU 1983-21087          19831108
PATENT CLASSIFICATION CODES:
 PATENT NO.      CLASS  PATENT FAMILY CLASSIFICATION CODES
 --------------  -----  ----------------------------------------------
 AU 533833       IPCI   C22B0003-00 [ICM]; C22B0015-00 [ICS]; C22B0023-04
                        [ICS]; C25C0001-08 [ICS]; C25C0001-12 [ICS]
                 IPCR   C01G0051-00 [I]; C01G0053-00 [I]; C22B0003-26 [I]
                 CPCI   C01G0051-003 [I]; C01G0053-003 [I]; C22B0003-0005 [I];
                        C22B0003-0098 [I]
                 ECLA   C01G0051-00B; C01G0053-00B; C22B0003-00D2;
                        C22B0003-00D4
ABSTRACT:
Metals are recovered from ore slurries by: adding NaOH and electrolyzing at
high temperature; adding an alkali metal halide and continuing electrolysis to
solubilize the metal values; and extracting the metal values by adsorption on
activated C or by solvent extraction  The ore has a particle size of preferably -320
mesh.  Thus, laterite serpentine ore containing 3.1% Ni was ground, slurried with
water, and mixed with NaOH. The slurry was heated to 150°, and d.c. was
applied at 15 V and 5-7 A for 5 h.  NaCl and activated C were added, and
electrolysis was continued at 12 V and 3-5 A for 12 h.  The C was filtered and
stripped with HNO3.  The Ni recovery was 87%.

SUPPL. TERM:        metal recovery ore electrolysis; nickel recovery ore
                    electrolysis; cobalt recovery ore electrolysis; electrolysis
                    ore metal recovery; sodium hydroxide ore electrolysis;
                    chloride sodium ore electrolysis
INDEX TERM:         Metals, preparation
                    ROLE: PUR (Purification or recovery); PREP (Preparation)
                       (recovery of, from slurries by electrolysis)
INDEX TERM:         1310-73-2, uses and miscellaneous   7647-14-5, uses and
                    miscellaneous
                    ROLE: USES (Uses)
                       (in metal recovery from ore slurries by electrolysis)
INDEX TERM:         7440-02-0P, preparation   7440-48-4P, preparation
                    ROLE: PUR (Purification or recovery); PREP (Preparation)
                       (recovery of, from slurries by electrolysis)
```

DISPLAY BIB

AN 109:230731 LCA Full-text
OREF 109:38153a,38156a
TI Synthesis and thermal reactions of cyano-stabilized cyclic sulfur ylides, 2-alkyl-1-cyano-3,4-dihydro-1H-2-thionianaphthalen-1-ides
AU Hori, Mikio; Kataoka, Tadashi; Shimizu, Hiroshi; Kataoka, Masahiro; Tomoto, Akihiko; Kishida, Masato; Ikemori, Megumi; Hanai, Kazuhiko; Kuwae, Akio
CS Gifu Pharm. Univ., Gifu, 502, Japan
SO Chemical & Pharmaceutical Bulletin (1988), 36(5), 1698-706
CODEN: CPBTAL; ISSN: 0009-2363
DOI 10.1248/cpb.36.1698
DT Journal
LA English
OS CASREACT 109:230731
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

DISPLAY FBIB

AN 101:103253 LCA
OREF 101:15611a,15614a
TI Liquid chromatograph
IN Nakamoto, Akira; Saito, Katsuhiko
PA Shimadzu Corp., Japan
SO Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI EP 106009	A1	19840425	EP 1983-101996		19830301
EP 106009	B1	19870128			
R: DE, FR, GB					
			JP 1982-98345U	U	19820629

PATENT FAMILY INFORMATION:
FAN 101:47887

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 4448692	A	19840515	US 1983-470553		19830228
			JP 1982-31411	A	19820227
			JP 1982-98345U	U	19820629
JP 58148958	A	19830905	JP 1982-31411		19820227
JP 02025463	B	19900604			
CA 1186166	A1	19850430	CA 1983-422472		19830225
			JP 1982-31411	A	19820227
			JP 1982-98345U	U	19820629

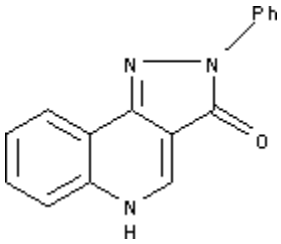
DISPLAY CBIB HITSTR

101:83938 Original Reference No. 101:12777a,12780a Is the estimation of GABA turnover rate in vivo a tool to differentiate between various types of drugs interfering with the GABA/benzodiazepine/ionophore receptor complex?. Bernasconi, R.; Bittiger, H.; Schmutz, M.; Martin, P.; Klein, M. (Pharm. Div., Ciba-Geigy Ltd., Basel, CH 4002, Switz.). Neuropharmacology, 23(7B), 815-16 (English) 1984. CODEN: NEPHBW. ISSN: 0028-3908.

IT 77779-60-3
RL: BIOL (Biological study)
(GABA metabolism by brain response to, benzodiazepine-GABA-ionophore receptor interaction in relation to)

RN 77779-60-3 LCA

CN 3H-Pyrazolo[4,3-c]quinolin-3-one, 2,5-dihydro-2-phenyl- (CA INDEX NAME)



EXPAND in /RL Thesaurus

=> E USES+ALL/RL

E1	12605	-->	USES/RL
E2	12605		Uses/RL
		NOTE	Vol. 66 (1967) to present - Assigned to a substance in studies reporting new or novel uses and applications of the substance. USES roles are assigned only when the application is demonstrated, claimed, or clearly intended, not for a well-known use or function of the substance. Patents imply usefulness and purpose, thus USES roles are assigned for a claimed use, as well as for demonstrated uses in examples.
E3	202	NT1	AGR/RL
E4	16	NT1	ARG/RL
E5	202	NT1	Agricultural Use/RL
E6	16	NT1	Analytical Reagent Use/RL
E7	4	NT1	BUU/RL
E8	4	NT1	Biological Use, Unclassified/RL
E9	1485	NT1	CAT/RL
E10	3	NT1	COS/RL
E11	0	NT1	CUS/RL
E12	1485	NT1	Catalyst Use/RL
E13	0	NT1	Combinatorial Use/RL
E14	3	NT1	Cosmetic Use/RL
E15	271	NT1	DEV/RL
E16	0	NT1	DGN/RL
E17	271	NT1	Device Component Use/RL
E18	0	NT1	Diagnostic Use/RL
E19	15	NT1	FFD/RL
E20	15	NT1	Food or Feed Use/RL
E21	191	NT1	MOA/RL
E22	191	NT1	Modifier or Additive Use/RL
E23	23	NT1	NUU/RL
E24	23	NT1	Other Use, Unclassified/RL
E25	18	NT1	POF/RL
E26	18	NT1	Polymer in Formulation/RL
E27	576	NT1	TEM/RL
E28	247	NT1	THU/RL
E29	576	NT1	Technical or Engineered Material Use/RL
E30	247	NT1	Therapeutic Use/RL

********** END **********

EXPAND in /IC Thesaurus

=> E C01C003-00+ALL/IC

```
E1            2   BT4   C/IC
                        SECTION C - CHEMISTRY; METALLURGY
                         Note
                         In section C, the definitions of groups of chemical
                        elements are as follows:
                          Alkali metals:  Li, Na, K, Rb, Cs, Fr
                          Alkaline earth metals:  Ca, Sr, Ba, Ra
                          Lanthanides:  elements with atomic numbers 57 to 71
                        inclusive
                          Rare earths:  Sc, Y, Lanthanides
                          Actinides:  elements with atomic numbers 89 to 103
                        inclusive
                          Refractory metals:  Ti, V, Cr, Zr, Nb, Mo, Hf, Ta, W
                          Halogens:  F, Cl, Br, I, At
                          Noble gases:  He, Ne, Ar, Kr, Xe, Rn
                          Platinum group:  Os, Ir, Pt, Ru, Rh, Pd
                          Noble metals:  Ag, Au, Platinum group
                          Light metals:  alkali metals, alkaline earth metals,
                        Be, Al, Mg
                          Heavy metals:  metals other than light metals
                          Iron group:  Fe, Co, Ni
                          Non-metals:  H, B, C, Si, N, P, O, S, Se, Te, noble
                        gases, halogens
                          Metals:  elements other than non-metals
                          Transition elements:  elements with atomic numbers 21
                        to 30 inclusive, 39 to 48 inclusive, 57 to 80
                        inclusive, 89 upwards
                         Notes
                         The following notes are meant to assist in the use of
                        this part of the classification scheme. They must not
                        be read as modifying in any way the elaborations.
                         (1) Section C  covers :
                         (a) pure chemistry, which covers inorganic compounds,
                        organic compounds, macromolecular compounds, and their
                        methods of preparation;
                         (b) applied chemistry, which covers compositions
                        containing the above compounds, such as: glass,
                        ceramics, fertilisers, plastics compositions, paints,
                        products of the petroleum industry. It also  covers
                        certain compositions on account of their having
                        particular properties rendering them suitable for
                        certain purposes, as in the case of explosives,
                        dyestuffs, adhesives, lubricants, and detergents;
                         (c) certain marginal industries, such as the
                        manufacture of coke and of solid or gaseous fuels, the
                        production and refining of oils, fats and waxes, the
                        fermentation industry (e.g., brewing and wine-making),
                        the sugar industry;
                         (d) certain operations or treatments, which are either
                        purely mechanical, e.g., the mechanical treatment of
                        leather and skins, or partly mechanical, e.g., the
                        treatment of water or the prevention of corrosion in
                        general;
                         (e) metallurgy, ferrous or non-ferrous alloys.
                         (2) -
                         (a) In the case of operations, treatments, products or
                        articles having both a chemical and a non-chemical part
                        or aspect, the general rule is that the chemical part
                        or aspect is covered by section C.
                         (b) In some of these cases, the chemical part or
                        aspect brings with it a non-chemical one, even though
```

purely mechanical, because this latter aspect either is essential to the operation or treatment or constitutes an important element thereof. It has seemed, in fact, more logical not to dissociate the different parts or aspects of a coherent whole. This is the case for applied chemistry and for the industries, operations and treatments mentioned in Notes (1)(c), (d) and (e). For example, furnaces peculiar to the manufacture of glass are covered by class C03 and not by class F27.

(c) There are, however, some exceptions in which the mechanical (or non-chemical) aspect carries with it the chemical aspect, for example:

- Certain extractive processes, in subclass A61K;
- The chemical purification of air, in subclass A61L;
- Chemical methods of fire-fighting, in subclass A62D;
- Chemical processes and apparatus, in class B01;
- Impregnation of wood, in subclass B27K;
- Chemical methods of analysis or testing, in subclass G01N;
- Photographic materials and processes, in class G03, and, generally, the chemical treatment of textiles and the production of cellulose or paper, in section D.

(d) In still other cases, the pure chemical aspect is covered by section C and the applied chemical aspect by another section, such as A, B or F, e.g., the use of a substance or composition for:

- treatment of plants or animals, covered by subclass A01N;
- foodstuffs, covered by class A23;
- ammunition or explosives, covered by class F42.

(e) When the chemical and mechanical aspects are so closely interlocked that a neat and simple division is not possible, or when certain mechanical processes follow as a natural or logical continuation of a chemical treatment, section C may cover, in addition to the chemical aspect, a part only of the mechanical aspect, e.g., after-treatment of artificial stone, covered by class C04. In this latter case, a note or a reference is usually given to make the position clear, even if sometimes the division is rather arbitrary.

E2 0 BT3 C0/IC
CHEMISTRY

E3 0 BT2 C01/IC
INORGANIC CHEMISTRY (processing powders of inorganic compounds preparatory to the manufacturing of ceramic products C04B035-00; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P003-00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C21B, C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

Notes

(1) In this class, in the absence of an indication to the contrary, a compound is classified in the last appropriate place. (3)

(2) Processes using enzymes or micro-organisms in order to:

(i) liberate, separate or purify a pre-existing compound or composition, or to

(ii) treat textiles or clean solid surfaces of materials

are further classified in subclass C12S. (5)

E4 21 BT1 C01C/IC
AMMONIA; CYANOGEN; COMPOUNDS THEREOF (salts of oxyacids of halogens C01B011-00; peroxides, salts of peroxyacids

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                        C01B015-00; thiosulfates, dithionites, polythionates
                        C01B017-64; compounds containing selenium or tellurium
                        C01B019-00; azides C01B021-08; metal amides
                        C01B021-092; nitrites C01B021-50; phosphides
                        C01B025-08; salts of oxyacids of phosphorus C01B025-16;
                        compounds containing silicon C01B033-00; compounds
                        containing boron C01B035-00)
                         Note
                         Therapeutic activity of compounds is further
                        classified in subclass A61P. (7)
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E5          1   -->     C01C003-00/IC
                        Cyanogen; Compounds thereof
                                                ( IPC EDITION:  1-7 )
E6          2   NT1     C01C003-02/IC
                        . Preparation of hydrogen cyanide
                                                ( IPC EDITION:  1-7 )
E7          0   NT2     C01C003-04/IC
                        . . Separation from gases
                                                ( IPC EDITION:  1-7 )
E8          0   NT1     C01C003-06/IC
                        . Stabilisation of hydrogen cyanide
                                                ( IPC EDITION:  1-7 )
E9          0   NT1     C01C003-08/IC
                        . Simple or complex cyanides of metals
                                                ( IPC EDITION:  1-7 )
E10         1   NT2     C01C003-10/IC
                        . . Simple alkali metal cyanides (3)
                                                ( IPC EDITION:  1-7 )
E11         0   NT2     C01C003-11/IC
                        . . Complex cyanides (3)
                                                ( IPC EDITION:  2-7 )
E12         0   NT2     C01C003-12/IC
                        . . Simple or complex iron cyanides (2)
                                                ( IPC EDITION:  1-7 )
E13         0   NT1     C01C003-14/IC
                        . Cyanic acid; Salts thereof
                                                ( IPC EDITION:  1-7 )
E14         0   NT1     C01C003-16/IC
                        . Cyanamide; Salts thereof (dicyandiamide C07C279-28)
                                                ( IPC EDITION:  1-7 )
E15         0   NT2     C01C003-18/IC
                        . . Calcium cyanamide
                                                ( IPC EDITION:  1-7 )
E16         0   NT1     C01C003-20/IC
                        . Thiocyanic acid; Salts thereof
                                                ( IPC EDITION:  1-7 )
********** END **********
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