PCTFULL (Patent Cooperation Treaty Full Text)

STN® THE CHOICE OF PATENT EXPERTS™

Subject Coverage

All patent-relevant areas of science and technology, i.e., all classes of the International Patent Classification

File Type

Full Text

Features

Thesaurus	International Patent Classification (/IPC), European Patent Classification (/EPC), Cooperative Patent Classification (/CPC)		
Alerts (SDIs)	Weekly		
CAS Registry Number® Identifiers	☐	Page Images	☐
Keep & Share	☑	SLART	☑
Learning Database	☐	Structures	☐

Record Content

- Full text of PCT (Patent Cooperation Treaty) published applications issued under the auspices of the World Intellectual Property Organization (WIPO) (currently 152 member states) since 1978.
- Records contain bibliographic data including patent applicant, inventor and legal representative information, patent, application and priority application data, IPC, CPC and EPC classification codes plus the searchable text of the complete documents, comprising titles, abstracts, detailed description and claims.
- The text fields are generally available in one or more of the official WIPO languages, English, French, German, Spanish, Japanese, Chinese, Korean, and Russian. Some are also available in other languages (e.g. Italian, Finnish, and Portuguese). English machine translations of title, abstract, description, or claims are available for French, Spanish/Castilian, German, Russian, Japanese, Chinese, and Korean. Patent applicant, inventor, and legal representative information (names and addresses) are available for display in the original non-Latin characters for most documents with filing language Chinese, Japanese, Korean, or Russian since their respective first occurrence.
- Texts in Latin-character languages or texts amenable to transliteration into these character sets are available in the general fields. Original national characters (e.g. accents, Umlaut, Cyrillic or Asian characters) are available for display in the respective "Original Language" fields. The Field Availability Index contains information on the availability of name (applicants, inventors, agents) or text fields (titles, abstracts, descriptions, claims) in various languages.
- Full text has been created by Optical Character Recognition (OCR) software. Therefore a small number of characters may have been misinterpreted, or portions of the text may have been incompletely recognized.
- Numeric values over 30 physical and chemical properties in almost 400 unit variants are searchable in all English-language text fields.
- Clipped images (mostly front-page images) are included, when available.
- Legal status data, family and citation display formats from the INPADOCDB database are available.

File Size

- More than 3.8 million records (08/2020)
- More than 3.1 million front page images (08/2020)

Coverage

1978-present

Updates

Weekly

Languages	English, French, German, Spanish
Database Producer	LexisNexis Universio BV Galileiweg 8 2333 BD Leiden The Netherlands Phone: (+31) 88-6390000 Email: customersupport@universio.com Copyright Holder
Database Supplier	FIZ Karlsruhe STN Europe P.O. Box 2465 76012 Karlsruhe Germany Phone: +49-7247-808-555 Fax: +49-7247-808-259 Email: helpdesk@fiz-karlsruhe.de
Sources	PCT/WIPO full text documents
User Aids	• Online Helps (HELP DIRECTORY lists all help messages available) • STNGUIDE
Clusters	• AEROTECH • ALLBIB • AUTHORS • CORPSOURCE • ENGINEERING • FULLTEXT • HPATENTS • NPS • PATENTS • PHARMACOLOGY • PNTTEXT STN Database Cluster information: http://www.stn-international.com/en/customersupport/customer-support#cluster+%7C+subjects+%7C+features

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 the titles (TIEN, TIFR, TIDE, TIES, TIOL), abstracts (ABEN, ABDE, ABES, ABFR, ABOL), claims (CLMEN, CLMFR, CLMDE, CLMES, CLMOL), and detailed description (DETDEN, DETFR, DETDDE, DETDES, DETDOL) fields)	None or /BI	S DIPHENYLETHER S HOLOGRA?(S)?LASER? S CHOLESTEROL SERIQUE S COMBUSTION INTERNA S LEITERPLATTEN	ABDE, ABEN, ABES, ABFR, ABOL, CLMDE, CLMEN, CLMES, CLMFR, CLMOL, DETDEN, DETDDE, DETDES, DETDFR, DETDOL, TIDE, TIEN, TIES, TIFR, TIOL
Abstract* (ABDE, ABES, ABFR, ABEN, ABOL)	/AB	S INTERMEDIATE BODY/AB S COMMUTATEUR/AB	AB (ABDE, ABEN, ABES, ABFR, ABOL)
Abstract in English	/ABEN	S MANAGEMENT SYSTEM?/ABEN	ABEN
Abstract in French	/ABFR	S KALLICREINE?/ABFR	ABFR
Abstract in German	/ABDE	S (IMPLANTATE AND HERSTELLUNG)/ABDE	ABDE
Abstract in Spanish	/ABES	S PRODUCTO APILDO/ABES	ABES
Abstract in Other Language	/ABOL	S CATALISA? ACID?/ABOL	ABOL
Accession Number	/AN	S 2009036474/AN	AN
Agent **(1)**	/AG	S PEIST K?/AG	AG
Agent Address	/AGA	S (BAVARIASTRASSE (S) MUENCHEN)/AGA	AG
Agent, Country (WIPO code and text)	/AG.CNY	S BE/AG.CNY S BELGIUM/AG.CNY	AG, AG.CNY
Agent, Total **(1)**	/AG.T	S (PFIZER (S) NEW YORK)/AG.T	AG
Application Country (WIPO code and text)	/AC	S L1 AND WO/AC	AI
Application Date **(2)**	/AD	S MAY-JUN 1999/AD	AI
Application Number **(3)**	/AP	S WO1999-DE1002/AP	AI
Application Year **(2)**	/AY	S 1999-2000/AY	AI
Claims* (CLMDE, CLMEN, CLMES, CLMFR, CLMOL)	/CLM	S COBALT SALTS/CLM	CLM (CLMDE, CLMEN, CLMES CLMFR, CLMOL)
Claims in English	/CLMEN	S INORGANIC ACIDS/CLMEN	CLMEN
Claims in French	/CLMFR	S COMPOSE DE FORMULE/CLMFR	CLMFR
Claims in German	/CLMDE	S KNOCHENSCHRAUBE?/CLMDE	CLMDE
Claims in Spanish	/CLMES	S (TELEFON? (3A) MOVIL)/CLMES	CLMES
Claims in Other Language	/CLMOL	S COMPLEX? DERIVA?/CLMOL	CLMOL
Cooperative Patent Classification **(4)**	/CPC	S C12N0009/CPC	CPC
Cooperative Patent Classification, Action Date	/CPC.ACD	S 20121113/CPC.ACD	CPC.TAB
Cooperative Patent Classification, Keywords	/CPC.KW	S C12N0009/CPC (S) I/CPC.KW	CPC.TAB
Cooperative Patent Classification, Version	/CPC.VER	S 20130101/CPC.VER	CPC.TAB
Data Entry Date **(2)**	/DED	S JAN 2008/DED	DED
Data Update Date **(2)**	/DUPD	S DUPD=JAN 2010	DUPD
Designated States (WIPO code and text)	/DS	S RW CH/DS	DS

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Document Type (code and text)	/DT (or /TC)	S FULLTEXT/DT AND L2	DT
Entry Date **(2)**	/ED	S ED>20100701	ED
Entry Date, Full Text **(2)**	/EDTX	S 20101203/EDTX	EDTX
EPC Classification **(4)**	/EPC (or /ECLA or /EPCLA)	S G01H0001-00B/EPC	EPC
EPC, Keyword Terms	/EPC.KW	S B2A/EPC.KW	EPC
Field Availability	/FA	S ABDE/FA	FA
Graphic Image Size **(2)**	/GIS	S GIS>13000	GIS
Graphic Image Type	/GIT	S TIFF/GIT	GIT
International Patent Classification (ICM, ICS)	/IC	S A24B/IC	IC
International Patent Classification (ICM, ICS, ICA, ICI, IPCI, IPCR) **(4)**	/IPC	S A01B0001-02/IPC S H05B0006-36+NT/IPC S H05B0006-36-H05B0006-44/IPC	IPC
International Patent Classification, Action Date	/IPC.ACD	S 21 JUL 2007/IPC.ACD	IPC.TAB
International Patent Classification, Advanced	/ICA	S B01D005-00/ICA	IPC, ICA
International Patent Classification, Index	/ICI	S C02F003-30/ICI	IPC, ICI
International Patent Classification, Initial	/IPCI	S B25D0001-16/IPCI	IPC, IPCI
International Patent Classification, Keywords	/IPC.KW	S C12N0009/IPC (S) I/IPC.KW	IPC.TAB
International Patent Classification, Main	/ICM	S A01N001/ICM S A01B059-06/ICM	ICM
International Patent Classification, Reclassified	/IPCR	S B25D0017-00/IPCR	IPC, IPCR
International Patent Classification, Reform	/IPC.REF	S B25F0005-00/IPC.REF	IPC.TAB
International Patent Classification, Secondary	/ICS	S A01G023/ICS	ICS
Inventor Address	/INA	S SANDBANK/IN AND MUENCHEN/INA	IN
Inventor Name	/IN (or /AU)	S MANG WILHELM/IN S ABBOTT CURTIS/AU	IN
Inventor, Country (WIPO code and text)	/IN.CNY	S DE/IN.CNY	IN, IN.CNY
Inventor, Nationality (WIPO code)	/IN.NAT	S AU/IN.NAT	IN
Inventor, Residence (WIPO code)	/IN.RES	S AU/PA.RES	IN
Inventor, Total **(1)**	/IN.T	S ANDREAS KRAMER ZUERICH/IN.T	IN
IPC, Edition	/IC.VER	S C08J005/IC AND 7/IC.VER	IPC.TAB
IPC, Version	/IPC.VER	S 20060101/IPC.VER	IPC.TAB
Language (ISO code and text)	/LA	S FR/LA S FRENCH/LA	LA
Language, Filing (ISO code and text)	/LAF	S EN/LAF S ENGLISH/LAF	LAF
Key Terms **(5)**	/KT	S "GLUCOSE AND GALACTOSE ABSORPTION"/KT	KT
Main Claim* (MCLMDE, MCLMEN, MCLMES, MCLMFR, MCLMOL)	/MCLM	S (COMPOSITION? (S) CHIRAL?)/MCLM	MCLM (MCLMDE, MCLMEN, MCLMES, MCLMFR, MCLMOL)
Main Claim in English	/MCLMEN	S TOUCH (5A) SCREEN/MCLMEN	MCLMEN
Main Claim in French	/MCLMFR	S ADN/MCLMFR	MCLMFR
Main Claim in German	/MCLMDE	S THERMOPLAST?/MCLMDE	MCLMDE
Main Claim in Spanish	/MCLMES	S COMPOSICION?/MCLMES	MCLMES
Main Claim in Other Language	/MCLMOL	S RESISTENC?/MCLMOL	MCLMOL

General Search Fields (cont'd)

Search Field Name	Search Code	Search Examples	Display Codes
Number of Claims **(2)**	/CLMN	S 10-13/CLMN	CLMN
Number of Description Paragraphs **(2)**	/DETN	S DETN<9	DETN
Patent Assignee Address	/PAA	S DALPHI METAL/PA AND MADRID/PAA	PA
Patent Assignee Name **(1)**	/PA (or /CS)	S BROWN WILLIAMSON/PA	PA
Patent Assignee, Country (WIPO code and text)	/PA.CNY	S IL/PA.CNY	PA, PA.CNY
Patent Assignee, Nationality (WIPO code)	/PA.NAT	S CU/PA.NAT	PA
Patent Assignee, Residence (WIPO code)	/PA.RES	S KR/PA.RES	PA
Patent Assignee, Total **(1)**	/PA.T	S SANDISK IL/PA.T	PA
Patent Country (WIPO code and text)	/PC	S WO/PC	PI
Patent Kind Code	/PK	S WOA2/PK	PI
Patent Number **(3)**	/PN (or /PATS)	S WO2009006253/PN	PI, PATS
Patent Number with Kind Code	/PNK	S WO2009006253A2/PNK S WO2009006253 A2/PNK	PI, PNK
Physical Properties	/PHP	S VOLT/PHP (S) TOUCH SCREEN/BI	KWIC
Priority Country (WIPO code and text)	/PRC	S AU/PRC S AUSTRALIA/PRC	PRAI
Priority Date **(2)**	/PRD	S JAN-FEB 1999/PRD	PRAI
Priority Date, First **(2)**	/PRDF	S 19950831/PRDF	PRAI
Priority Number **(3)**	/PRN	S US1972-262661/PRN	PRAI
Priority Number, Original	/PRNO	S US61120345/PRNO	PRAO
Priority Year **(2)**	/PRY	S L1 AND PRY>1999	PRAI
Priority Year, First **(2)**	/PRYF	S L1 AND 1998/PRYF	PRAI
Publication Date **(2)**	/PD	S 19991202/PD	PI
Publication Year **(2)**	/PY	S 1999/PY	PI
Title* (TIDE, TIEN, TIES, TIFR, TIOL)	/TI	S DRILLING FLUID#/TI	TI (TIEN, TIDE, TIES, TIFR, TIOL)
Title in English	/TIEN	S STRIPPING DEVICE/TIEN	TIEN
Title in French	/TIFR	S TRAITMENT? ULTERIEUR/TIFR	TIFR
Title in German	/TIDE	S TELEKOMMUNIKATION?/TIDE	TIDE
Title in Spanish	/TIES	S TURBIN?/TIES	TIES
Title in Other Language	/TIOL	S (DISPOSITIV? AND MEDIC?)/TIOL	TIOL
Update Date **(2)**	/UP	S 20101130/UP	UP

(1) Search with implied (S) proximity is available in this field.
(2) Numeric search field that may be searched using numeric operators or ranges.
(3) Either STN or Derwent format may be used.
(4) An online thesaurus is available in this field.
(5) Field available for records since 20181126/UP.

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
Application Number Group **(1)**	/APPS	AP, PRN	S WO2009-ZA72/APPS	AI, PRAI, APPS
Patent Countries (WIPO code and text)	/PCS	PC, DS	S GB/PCS	PI, DS

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

Property Fields 1)

In PCTFULL a numeric search for a specific set of physical properties (/PHP) is available within the English full text fields (TIEN, ABEN, DETDEN and CLMEN). The numeric values are not displayed as single fields, but highlighted within the hit displays.

Use EXPAND/PHP to search for all available physical properties. A search with the respective field codes will be carried out in all database fields with English text. The /PHP index contains a complete list of codes and related text for all physical properties available for numeric search.

Field Code	Property	Unit		Search Examples
/AOS	Amount of substance	Mol		S 10/AOS
/BIR	Bit Rate	Bit	(Bit)	S 100000-160000/BIR
/BYR	Byte Rate	Byte	(Byte)	S BYR<300000
/CMOL	Molar concentration (Molarity) (Concentration, amount of substance)	mol/l		S MOLYBD?/BI (S) 2E-2/CMOL
/CON	Conductance	S	(Siemens)	S 1E-2/CON
/DEG	Degree	Degree		S (POLARI? (S) ANGLE)/BI (S) 45/DEG
/DEN	Density (Mass Density)	Kg/m3		S (CELL? (S) RECOMBIN?)/CLMEN (S) 5E-3-10E-3/DEN
/DV	Viscosity, dynamic	Pa s		S DV>5000
/ENE	Energy	J	(Joule)	S L1 AND 10000/ENE
/FOR	Force	N	(Newton)	S 50 N/FOR
/FRE	Frequency	Hz	(Hertz)	S ANALY?/CLM (10A) 0-3/FRE
/KV	Viscosity, kinematic	m2/s		S LUBRICANT/BI (S) 10E-5/KV
/LUME	Luminous Emittance/Illuminance	Lux		S 10-50/LUME
/LUMF	Luminous Flux (Luminous Power)	Lumen		S L74 (S) LUMF>70
/LUMI	Luminous Intensity	Candela		S 5<LUMI<15
/M	Mass	Kg	(Kilogram)	S ALLOY/BI (30A) 1E-10-1E-5/M
/MFL	Mass Flow (Mass Transfer)	Kg/s		S INJECT? (S) 3-10/MFL
/MFS	Magnetic Field Strength (Magnetic Flux Density)	Tesla		S MAGNET?/BI (10W) 5<MFS<7
/MW	Molar Mass	g/mol		S 2000-3000 G/MOL/MW
/PER	Percent (Proportionality)	Percent		S (TITAN? (3A) DIOXID?)/CLMEN (S) 5/PER
/PHV	pH	pH		S 7.4-7.6/PHV
/POW	Power	W	(Watt)	S (SOLAR? OR PHOTOVOLTAIC?)/BI (10A) 5-10/POW
/PRES (or /P)	Pressure	Pa	(Pascal)	S (VACUUM (5A) DISTILL?)/BI (S) 1000-1100/PRES
/RAD	Radioactivity	Bq	(Becquerel)	S AZA?/BI (S) 1-10/RAD
/RES	Electrical Impedance/resistance	Ohm		S CERAMIC/CLM (S) 1-8/RES
/SAR	Area /Surface Area	m2		S (COATING? OR FOIL?)/BI (S) 10-100/SAR
/SCO	Spring Constant	N/m		S (ALUMINUM OR ALUMINIUM)/BI (20A) 10000-50000/SCO
/SIZ	Size	m	(Metre)	S ?CARBON?/CLM (S) 3E-9/SIZ
/ST	Surface Tension	J/m2		S 60 J/M**2 /ST
/TEMP (or /T)	Temperature	K	(Kelvin)	S (REACTION? (25A) PHOSPHAT?) (S) 10/TEMP
/TIM	Time	S	(Second)	S ?INCUB?/CLM (10W) 10-50/TIM
/VEL (or /V)	Velocity	m/s	(Metre per Second)	S PUMP?/BI (S) 1E-3-5E-3/VEL
/VELA	Velocity, angular	rpm		S ANG?/CLM (S) VELA>10
/VOL	Volume	m3		S ?FUSION?/BI (15A) 1E-8-2E-8 /VOL
/VOLT	Voltage	V	(Volt)	S CALIBRAT?/BI(10A) 5E-3<VOLT<7E-3

(1**)** Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) and 9.2E-8 (for 0.000000092).

IPC Thesaurus

The classifications, validity 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 edition.

Relationship Code	Content	Search Examples
ADVANCED (ADV)	Advanced Codes for the Core Level IPC Code	E A61K0006-02+ADVANCED/IPC
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IPC
BRO (MAN)	Complete Class	E C01C+BRO/IPC
BT	Broader Term (BT, SELF)	E C01F001-00+BT/IPC
CORE (COR)	Core Codes for the Advanced Level IPC Code	E G08C0019-22+CORE/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IPC
HIE	Hierarchy Term (Broader and Narrower Term) (BT, SELF, NT)	E C01B003-00+HIE/IPC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IPC
KT	Keyword Term (catchwords) (SELF, KT)	E CYANOGEN+KT/IPC
NEXT	Next Classification	E C01C001-00+NEXT5/IPC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IPC
PREV	Previous Classification	E C01C001-12+PREV10/IPC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IPC

ECLA (/EPC) Thesaurus

This thesaurus is available in the /EPC search field (for ECLA codes). 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 C12M0001-34H2+ALL/EPC
AUTO **(1)**	Automatic relationship (BT, SELF, CODE, DEF)	E G01J003-443+AUTO/EPC
BT	Broader terms (BT, SELF)	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)	E A01B0001-24+NEXT/EPC
NEXT(n)	Next n classification within the same class	E A01B0001-24+NEXT3/EPC
NT	Narrower terms	E G05B0001-04+NT/EPC
PREV	Previous Code within the same class (SELF, PREV)	E G05B0019-418N1+PREV/EPC
PREV(n)	Previous n classifications within the same class	E G05B0019-418N1+PREV2/EPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	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.

CPC Thesaurus

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+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

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 IN. The fields are displayed or printed in the order requested.

Hit-term highlighting is available for all fields. Highlighting must be ON during SEARCH to use the HIT, KWIC, and OCC formats.

Format	Content	Examples
AB	Abstract (all abstracts)	D AB
ABDE	Abstract in German	D ABDE
ABEN	Abstract in English	D ABEN
ABES	Abstract in Spanish	D ABES
ABFR	Abstract in French	D ABFR
ABOL	Abstract in Other Language	D ABOL
ABOR	Abstract in Original Language	D ABOR
AG	Agent	D AG
AG.CNY	Agent, Country	D AG D AG.CNY
AGOR	Agent Name in Original Language	D AGOR
AI (AP) **(1)**	Application Information	D AI
AN	Accession Number	D AN
CLM	Claims (all languages)	D CLM
CLMDE	Claims in German	D CLMDE
CLMEN	Claims in English	D CLMEN
CLMES	Claims in Spanish	D CLMES
CLMFR	Claims in French	D CLMFR
CLMN	Number of Claims	D CLMN
CLMOL	Claims in Other Language	D CLMOL
CLMOR	Claims in Original Language	D CLMOR
CPC	Cooperative Patent Classification	D CPC
CPC.TAB	CPC, Tabular	D CPC.TAB
DETD	Detailed Description	D DETD
DETDDE	Detailed Description in German	D DETDDE
DETDEN	Detailed Description in English	D DETDEN
DETDES	Detailed Description in Spanish	D DETDES
DETDFR	Detailed Description in French	D DETDFR
DETDOL	Detailed Description in Other Language	D DETDOL

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
DETDOR	Detailed Description in Original Language	D DETDOR
DETN	Number of Paragraphs in DETD	D DETN
DS	Designated State	D DS
DT (TC)	Document Type	D TC
DUPD	Data Update Date	D DUPD
ED	Entry Date	D ED
EDTX	Entry Date Full Text	D EDTX
EPC (ECLA, EPCLA)	EPC Classification	D EPC
FA	Field Availability	D FA
GI	Graphic Image	D GI
GIS **(2)**	Graphic Image Size	D GIS
GIT **(2)**	Graphic Image Type	D GIT
IC	IPC (ICM, ICS)	D IC
ICA	IPC, Additional	D ICA
ICI	IPC, Index	D ICI
ICM	IPC, Main	D ICM
ICS	IPC, Secondary	D ICS
IN (AU)	Inventor	D IN
IN.CNY	Inventor, Country	D IN D IN.CNY
INOR	Inventor in Original Language	D INOR
IPC	IPC (ICM, ICS, ICA, ICI, IPCI, IPCR)	D IPC
IPC.TAB	IPC, Tabular	D IPC.TAB
IPCI	IPC, Initial	D IPCI
IPCR	IPC, Reclassified	D IPCR
LA	Language	D LA
LAF	Language, Filing	D LAF
MCLM	Main Claims (all languages)	D MCLM
MCLMDE	Main Claim in German	D MCLMDE
MCLMEN	Main Claim in English	D MCLMEN
MCLMES	Main Claim in Spanish	D MCLMES
MCLMFR	Main Claim in French	D MCLMFR
MCLMOL	Main Claim in Other Language	D MCLMOL
MCLMOR	Main Claim in Original Language	D MCLMOR
PA (CS)	Patent Assignee	D PA
PA.CNY	Patent Assignee, Country	D PA D PA.CNY
PAOR	Patent Assignee in Original Language	D PAOR
PI (PN) **(1)**	Patent Information	D PI
PNK	Patent Number/Kind Code	D PNK
PRAI (PRN) **(1)**	Priority Information	D PRAI
PRAO (PRNO)	Priority Information, Original	D PRNO
TI	Title (all titles in all languages)	D TI
TIDE	Title in German	D TIDE
TIEN	Title in English	D TIEN
TIES	Title in Spanish	D TIES
TIFR	Title in French	D TIFR
TIOL	Title in Other Language	D TIOL
TIOR	Title in Original Language	D TIOR
UP	Update Date	UP
ABS	ABEN, ABFR, ABES, ABDE, ABOL	D ABS
ALL (MAX) **(1)**	AN, ED, UP, EDTX, DED, DUPD, TIEN, TIFR, TIES, TIDE, TIOL, IN, PA, AG, LAF, LA, DT, PI, DS, AI, PRAI, IPC (ICM, ICS, ICA, ICI, IPCI, IPCR), CPC, EPC, ABEN, ABFR, ABES, ABDE, ABOL, DETDEN, CLMEN, DETDFR, CLMFR, DETDES, CLMES, DETDDE, CLMDE, DETDOL, CLMOL, KT	D ALL
ALLG (MAXG) **(1)**	ALL, plus graphic image	D ALLG
DALL **(1)**	ALL, delimited for post processing	D DALL

DISPLAY and PRINT Formats (cont'd)

Format	Content	Examples
IALL (IMAX) **(1)**	ALL, indented with text labels	D IALL
IALLG (IMAXG) **(1)**	IALL, plus graphic image	D IALLG
ALLOR (MAXOR) **(1)**	AN, ED, UP, EDTX, DED, DUPD, TIOR, INOR, PAOR, AGOR, LAF, LA, DT, PI, DS, AI, PRAI, IPC (ICM, ICS, ICA, ICI, IPCI, IPCR), CPC, EPC, ABOR, DETDOR, CLMOR	
APPS **(1)**	AI, PRAI	D APPS
BIB (**1)**	AN, ED, UP, EDTX, DED, DUPD, TIEN, TIFR, TIES, TIDE, TIOL, IN, PA, AG, LAF, LA, DT, PI, DS, AI, PRAI	D BIB
BIBG **(1)**	BIB, plus graphic image	D BIBG
IBIB **(1)**	BIB, indented with text labels	D IBIB
IBIBG **(1)**	IBIB, plus graphic image	D IBIBG
BRIEF **(1)**	AN, ED, UP, EDTX, DED, DUPD, TIEN, TIFR, TIES, TIDE, TIOL, IN, PA, AG, LAF, LA, DT, PI, DS, AI, PRAI, IPC (ICM, ICS, ICA, ICI, IPCI, IPCR), CPC, EPC, ABEN, ABFR, ABES, ABDE, ABOL, MCLMEN, MCLMFR, MCLMES, MCLMDE, MCLMOL	D BRIEF
BRIEFG **(1)**	BRIEF, plus graphic image	D BRIEFG
IBRIEF **(1)**	BRIEF, indented with text labels	D IBRIEF
IBRIEFG **(1)**	IBRIEF, indented plus graphic image	D IBRIEFG
CFAM **(1,2)**	Condensed family format (from INPADOCDB)	D CFAM
FAM **(1,2)**	AN, table of patent family information (from INPADOCDB)	D FAM
CPC.TAB	CPC, CPC.KW, CPC.ACD, CPC.VER in tabular format	D CPC.TAB
LS **(1,2)**	Legal Status (from INPADOCDB)	D LS
LS2 **(1,2)**	Legal Status (from INPADOCDB), detailed version with display headers	D LS2
IND	IPC, EPC, CPC	D IND
IPC.TAB	IPC, IPC.KW, IPC.ACD, IPC.VER in tabular format	D IPC.TAB
RE **(2)**	Citations of patent and non-patent literature (from INPADOCDB)	D RE
SCAN **(3)**	TIEN, TIFR, TIES, TIDE, TIOL (random display without answer numbers)	D SCAN
STD **(1)**	BIB plus IPC, CPC and EPC (STD is the default)	D STD
STDG **(1)**	STD, plus graphic image	D STDG
ISTD **(1)**	STD, indented with text labels	D ISTD
ISTDG **(1)**	ISTD, plus graphic image	D ISTDG
TRIAL (TRI, SAMPLE, SAM, FREE)	PK, ED, UP, EDTX, DED, DUPD, TIEN, TIFR, TIES, TIDE, TIOL, FA, DETN, CLMN	D TRIAL
TX	DETDEN, CLMEN, DETDFR, CLMFR, DETDES, CLMES, DETDDE, CLMDE, DETDOL, CLMOL	D TX
HIT	Hit term(s) and field(s)	D HIT
KWIC	Up to 50 words before and after hit term(s) (KeyWord-In-Context)	D KWIC
OCC	Number of occurrences of hit term(s) and field(s) in which they occur	D OCC

(1) Application and patent numbers are available in STN and Derwent format. The format for DISPLAY, PRINT, SELECT and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the Derwent format. To reset to the STN format, enter SET PAT STN.
(2) Custom display only.
(3) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

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	Y
Abstract in English	ABEN	Y	Y
Abstract in French	ABFR	Y	Y
Abstract in German	ABDE	Y	Y
Abstract in Other Language	ABOL	Y	Y
Abstract in Spanish	ABES	Y	Y
Accession Number	AN	Y	Y
Agent	AG	Y	Y
Agent Address	AGA	Y	Y
Agent, Country	AG.CNY	Y	Y
Agent, Total	AG.T	Y	Y
Application Country	AC	Y	Y
Application Date	AD	Y	Y
Application Information	AI (AP)	Y **(2)**	Y
Application Number Group	APPS	Y **(2,3)**	Y
Application Year	AY	Y	Y
Claims (all languages)	CLM	Y	N
Claims in English	CLMEN	Y	N
Claims in French	CLMFR	Y	N
Claims in German	CLMDE	Y	N
Claims in Other Language	CLMOL	Y	Y
Claims in Spanish	CLMES	Y	N
CPC Classification	CPC	Y	Y
Data Entry Date	DED	Y	Y
Data Update Date	DUPD	Y	Y
Designated State	DS	Y	Y
Detailed Description	DETD	Y **(4)**	Y
Detailed Description in English	DETDEN	Y **(4)**	N
Detailed Description in French	DETDFR	Y **(4)**	N
Detailed Description in German	DETDDE	Y **(4)**	N
Detailed Description in Spanish	DETDES	Y **(4)**	N
Detailed Description in Other Language	DETDOL	Y **(4)**	N
Document Type	DT (TC)	Y	Y
Entry Date	ED	Y	Y
Entry Date Full Text	EDTX	Y	N
EPC Classification	EPC (or ECLA or EPCLA)	Y	Y
Field Availability	FA	Y	Y
Graphic Image Size	GIS	Y	Y
Graphic Image Type	GIT	Y	Y
International Patent Classification	IC	Y	N
Inventor	IN (AU)	Y	Y
Inventor, Address	INA	Y	Y
Inventor, Country	IN.CNY	Y	Y
Inventor, Nationality	IN.NAT	Y	Y
Inventor, Residence	IN.RES	Y	Y
Inventor, Total	IN.T	Y	Y

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

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
IPC, Additional	ICA	Y	Y
IPC, Advanced Level Symbols	IPC.A	Y **(5)**	N
IPC, Advanced Level Symbols for Invention	IPC.AI	Y **(5)**	N
IPC, Core Level Symbols	IPC.C	Y **(5)**	N
IPC, Core Level Symbols for Invention	IPC.CI	Y **(5)**	N
IPC, Index	ICI	Y	Y
IPC, Initial	IPCI	Y	Y
IPC, Main	ICM	Y	Y
IPC, Reclassified	IPCR	Y	Y
IPC, Reform	IPC.REF	Y	N
IPC, Secondary	ICS	Y	Y
Key Terms	KT	Y	N
Language	LA	Y	Y
Language of Filing	LAF	Y	Y
Main Claim (all languages)	MCLM	Y	N
Main Claim in English	MCLMEN	Y	N
Main Claim in French	MCLMFR	Y	N
Main Claim in German	MCLMDE	Y	N
Main Claim in Spanish	MCLMES	Y	N
Main Claim in Other Language	MCLMOL	Y	N
Number of Claims	CLMN	Y	Y
Number of Paragraphs in DETD	DETN	Y	Y
Occurrence Count of Hit Terms	OCC	N	Y
Patent Assignee	PA (CS)	Y	Y
Patent Assignee Address	PAA	Y	Y
Patent Assignee, Country	PA.CNY	Y	Y
Patent Assignee, Nationality	PA.NAT	Y	Y
Patent Assignee, Residence	PA.RES	Y	Y
Patent Assignee, Total	PA.T	Y	Y
Patent Countries	PCS	Y **(6)**	Y
Patent Country	PC	Y	Y
Patent Kind Code	PK	Y	Y
Patent Number	PN (PI)	Y **(2)** (default)	Y
Patent Number Group	PATS	Y **(2)**	Y
Patent Number with Kind Code	PNK	Y	Y
Pre-IPC8 Symbols from the ICM and first IPC8 values from 2006 onwards	IPC.F	Y **(5)**	Y
Priority Country	PRC	Y	Y
Priority Date	PRD	Y	Y
Priority Date, First	PRDF	Y **(7)**	Y
Priority Number	PRN (PRAI)	Y **(2)**	Y
Priority Number, Original	PRNO	Y	Y
Priority Year	PRY	Y	Y
Priority Year, First	PRYF	Y **(7)**	Y
Publication Date	PD	Y	Y
Publication Year	PY	Y	Y
Title (all languages)	TI	Y	Y
Title in English	TIEN	Y	Y
Title in French	TIFR	Y	Y
Title in German	TIDE	Y	Y
Title in Other Language	TIOL	Y	Y
Title in Spanish	TIES	Y	Y
Update Date	UP	Y	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 TI.
(2) SELECTed and SORTed application, priority and patent numbers are in the format set by the Messenger SET PATENT command, either DERWENT or STN.
(3) SELECTS or ANALYZES AP and PRN with /APPS appended.
(4) Appends /BI to the terms created by SELECT.
(5) Appends /IPC to the terms created by SELECT.

(6) SELECTS or ANALYZES PC and DS with /PCS appended.
(7) SELECT or ANALYZE HIT are not valid with this field.

Sample Records

DISPLAY IALLG

```
ACCESSION NUMBER:       2009115624   PCTFULL
ENTRY DATE:             20101130
UPDATE DATE:            20101130
ENTRY DATE (FULLTEXT):  20101130
DATA ENTRY DATE:        20090924
DATA UPDATE DATE:       20101116
TITLE (ENGLISH):        SYSTEM PROVIDING ASSISTANCE IN THE OPERATION OF
                        RADIO-BASED RAILWAY BLOCKING MANAGEMENT
TITLE (FRENCH):         SYSTEME D'AIDE A LA GESTION DE BLOCS FERROVIAIRES PAR
                        RADIO
TITLE (SPANISH):        SISTEMA DE AYUDA A LA OPERACION DE GESTION DE BLOQUEOS
                        FERROVIARIOS VIA RADIO
INVENTOR(S):            ERASO ARRIETA, Julian, Atxuri, 6, E-48006 Bilbao
                        (Bizkaia), ES, [NAT: ES, RES: ES]
                        ERASO ARRIETA, JULIAN, ES, [NAT: ES, RES: ES]
                        PALOMINO ZUBIAURRE, Inigo, Atxuri, 6, E-48006 Bilbao
                        (Bizkaia), ES, [NAT: ES, RES: ES]
                        PALOMINO ZUBIAURRE, INIGO, ES, [NAT: ES, RES: ES]
                        DE BERGARA ETXEZARRETA, Javier Carlos, Santiago de
                        Compostela, 12, E-48003 Bilbao (Bizkaia), ES, [NAT: ES,
                        RES: ES]
                        DE BERGARA ETXEZARRETA, JAVIER CARLOS, ES, [NAT: ES,
                        RES: ES]
                        PRESMANES DE ARIZMENDI, Agustin, Santiago de
                        Compostela, 12, E-48003 Bilbao (Bizkaia), ES, [NAT: ES,
                        RES: ES]
                        PRESMANES DE ARIZMENDI, AGUSTIN, ES, [NAT: ES, RES: ES]
                        PASTOR SOLANO, Roberto, Avda. Lehendakari Agirre, 3,
                        E-48014 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
                        PASTOR SOLANO, ROBERTO, ES, [NAT: ES, RES: ES]
                        ARANGUREN ARAMENDIA, Gerardo, Barrio de Sarriena, s/n,
                        E-48940 Leioa (Bizkaia), ES, [NAT: ES, RES: ES]
                        ARANGUREN ARAMENDIA, GERARDO, ES, [NAT: ES, RES: ES]
                        RUBINA DIEZ, Jon Mikel, Barrio de Sarriena, s/n,
                        E-48940 Leioa (Bizkaia), ES, [NAT: ES, RES: ES]
                        RUBINA DIEZ, JON MIKEL, ES, [NAT: ES, RES: ES]
                        ODRIOZOLA LERCHUNDI, Inigo de Loyola, Barrio de
                        Sarriena, s/n, E-48940 Leioa (Bizkaia), ES, [NAT: ES,
                        RES: ES]
                        ODRIOZOLA LERCHUNDI, INIGO DE LOYOLA, ES, [NAT: ES,
                        RES: ES]
                        CARBALLEDO MORILLO, Roberto, Avda. de las
                        Universidades, 24, E-48007 Bilbao (Bizkaia), ES, [NAT:
                        ES, RES: ES]
                        CARBALLEDO MORILLO, ROBERTO, ES, [NAT: ES, RES: ES]
                        PERALLOS RUIZ, Asier, Avda. de las Universidades, 24,
                        E-48007 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
                        PERALLOS RUIZ, ASIER, ES, [NAT: ES, RES: ES]
PATENT APPLICANT(S):    SOCIEDAD PUBLICA EUSKO TRENBIDEAK-FERROCARRILES VASCOS,
                        S.A., Atxuri, 6, E-48006 Bilbao (Bizkaia), ES, [NAT:
                        ES, RES: ES]
                        SOCIEDAD PUBLICA EUSKO TRENBIDEAK-FERROCARRILES VASCOS,
                        S.A., [NAT: ES, RES: ES]
                        EUSKAL TRENBIDE SAREA-RED FERROVIARIA VASCA, Santiago
```

de Compostela, 12, E-48003 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
EUSKAL TRENBIDE SAREA-RED FERROVIARIA VASCA, [NAT: ES, RES: ES]
ERASO ARRIETA, Julian, Atxuri, 6, E-48006 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
ERASO ARRIETA, JULIAN, [NAT: ES, RES: ES]
PALOMINO ZUBIAURRE, Inigo, Atxuri, 6, E-48006 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
PALOMINO ZUBIAURRE, INIGO, [NAT: ES, RES: ES]
DE BERGARA ETXEZARRETA, Javier Carlos, Santiago de Compostela, 12, E-48003 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
DE BERGARA ETXEZARRETA, JAVIER CARLOS, [NAT: ES, RES: ES]
PRESMANES DE ARIZMENDI, Agustin, Santiago de Compostela, 12, E-48003 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
PRESMANES DE ARIZMENDI, AGUSTIN, [NAT: ES, RES: ES]
PASTOR SOLANO, Roberto, Avda. Lehendakari Agirre, 3, E-48014 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
PASTOR SOLANO, ROBERTO, [NAT: ES, RES: ES]
ARANGUREN ARAMENDIA, Gerardo, Barrio de Sarriena, s/n, E-48940 Leioa (Bizkaia), ES, [NAT: ES, RES: ES]
ARANGUREN ARAMENDIA, GERARDO, [NAT: ES, RES: ES]
RUBINA DIEZ, Jon Mikel, Barrio de Sarriena, s/n, E-48940 Leioa (Bizkaia), ES, [NAT: ES, RES: ES]
RUBINA DIEZ, JON MIKEL, [NAT: ES, RES: ES]
ODRIOZOLA LERCHUNDI, Inigo de Loyola, Barrio de Sarriena, s/n, E-48940 Leioa (Bizkaia), ES, [NAT: ES, RES: ES]
ODRIOZOLA LERCHUNDI, INIGO DE LOYOLA, [NAT: ES, RES: ES]
CARBALLEDO MORILLO, Roberto, Avda. de las Universidades, 24, E-48007 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
CARBALLEDO MORILLO, ROBERTO, [NAT: ES, RES: ES]
PERALLOS RUIZ, Asier, Avda. de las Universidades, 24, E-48007 Bilbao (Bizkaia), ES, [NAT: ES, RES: ES]
PERALLOS RUIZ, ASIER, [NAT: ES, RES: ES]

AGENT: URIZAR BARANDIARAN, Miguel Angel, Gordoniz, 22, 5° , E-48012 Blbao (Bizkaia), ES

LANGUAGE OF FILING: Spanish
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent; (Fulltext)
PATENT INFORMATION: WO 2009115624 A1 20090924
DESIGNATED STATES:
W: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DO 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 LY MA MD ME 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 ST SV SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW
RW (ARIPO): BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LT LU LV MC MT NL NO PL PT RO SE SI SK TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
APPLICATION INFO.: WO 2008-ES812 20081230

PRIORITY INFO.: ES2008-785 20080318
IPC ORIGINAL: B61L0025-02 [I,A]
EPC CLASSIF. (ECLA): B61L0025-02C

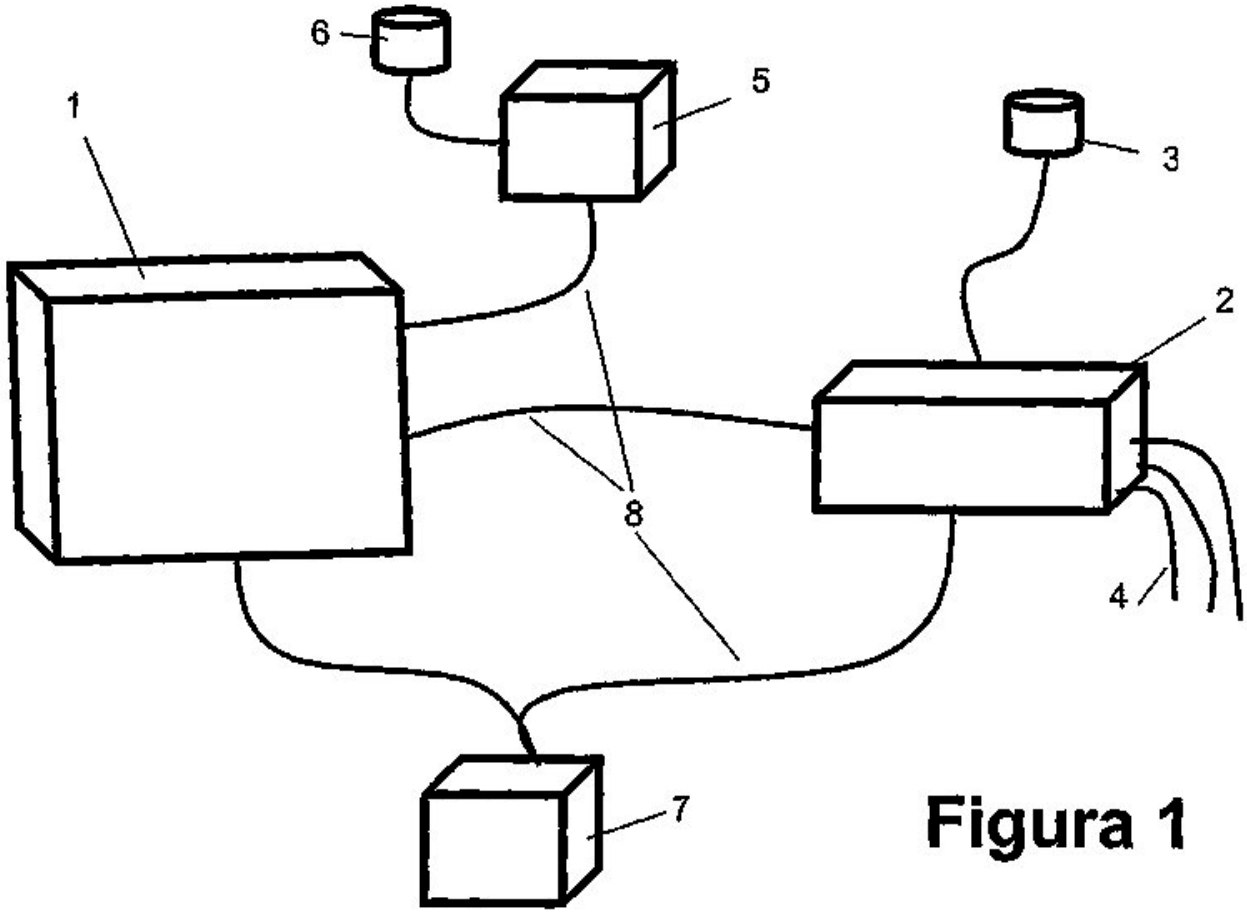

Figura 1

ABSTRACT (ENGLISH):
The invention relates to a system providing assistance in the operation of radio-based railway blocking management, consisting of an electronic system formed by an industrial computer having a **touch screen** and a series of programs or applications and an electronic circuit including a receiver of a satellite-based positioning system (GPS or similar), a rotation sensor and a series of circuits for conditioning different signals originating from the train, which determine the state of same: running, stopped, state of the doors, etc.

ABSTRACT (FRENCH):
L'invention concerne un systeme d'aide a la gestion de blocs ferroviaires par radio, comprenant un systeme electronique forme par un ordinateur industriel avec ecran tactile et une serie de programmes ou applications ainsi qu'un circuit electronique possedant un recepteur d'un systeme de position par satellite (GPS ou analogue), un gyrometre et une serie de circuits de conditionnement de divers signaux provenant du train et determinant l'etat de ce dernier: marche, arret, position des portes, etc.

ABSTRACT (SPANISH):
Sistema de Ayuda a la operacion de gestion de bloqueos ferroviarios via

radio, compuesto por un sistema electronico formado por un computador industrial con pantalla tactil y una serie de programas o aplicaciones y un circuito electronico con un receptor de un sistema de posicionamiento via satelite (GPS o similar), un sensor de giro y una serie de circuitos para acondicionar diversas senales procedentes del tren y que determinan el estado del mismo: marcha, paro, estado de puertas, etc.

DESCRIPTION (ENGLISH):
"SYSTEM OF AID TO THE OPERATION OF MANAGEMENT OF RAILWAY BLOCKADES VIA RADIO"

DESCRIPTION

The object of the invention is a system of aid to Ia operation of management of railway blockades via radio, that includes a series of electronic equipment that settle in a train to allow to determine Ia exact position of the train on the routes, to provide diverse information to the machinist of the train, to provide information to

Command post of the railway service and to interchange information between the machinist of the train and the Command post of the railway service. With this equipment an improvement of the system of railway operation of a service of trains is obtained.

Field of technical Ia

The invention (in future System of Aid) comes to solve diverse problems that arise in Ia railway operation Ia eg: determination from Ia exact position from all the trains from a railway operator, Ia transmission of information to the machinist, Ia communication between the train like machine and the Command post of the railway system and Ia communication by means of messages of the Command post with the machinist.

For example, it is important to transmit between a train and the Command post the following information: exact position of the train at every moment, service that must realise the train, trip ticket or book of itinerary that must fulfill the temporary machinist within the present service, messages on the operation like indications of eventualities or situations, information on railway facilities disposition of routes, changes of routes, etc.

In addition all this information is due to transmit the machinist with: reliability, clarity, speed and simplicity. The System of Aid must complete the work of the machinist adding facilities and avoiding distractions with respect to its main functions.

For the controller of the Command post of the railway service this information must be: trustworthy, it completes, immediate and clear. The System of Aid must facilitate its control on Ia operation of Ia totality of trains of the service.

For Ia company of railway operation it adds reliability in the service, immediate, facility to transmit temporary information or variable information, etc. The System of Aid represents in addition a security system because it can realise the workings of positioning of the train when they fail the present or traditional systems
……

The System of Aid is a system of great complexity whose operation can adapt to diverse needs and new situations. The Shaping software of the Remote one of the System of Aid serves to vary: the main parameters, the system of rules of shipment of Ia position of the train, the data located in Ia electronic library, the types of messages, etc.

The aspect of main Ia Shaping screen of the Remote one of the System of Aid shows the different options from configuration: general performances, configuration of rules of the expert system, contents of Ia embarked electronic library, etc.

From this screen it is possible to be selected, for example,

Ia modification of parameters main, that shows to a screen printed type electronic where the general parameters of operation can be defined, or to generate the content of Ia library, allowing the design of all the levels of menus of access to documents and Ia definition of documents associated to a selection. The information generated by the shaping one is transmitted to the train by means of the system of wireless communications of the Module of Communications Embarked.

CLAIMS (ENGLISH):
R AND I V I N D I C TO C I OR N AND S

1. - System of Aid to Ia operation of management of railway blockades via radio, characterized to be made up of an electronic system formed by an industrial computer with **touch screen** and a series of programs or applications and an electronic circuit with a receiver of a system of positioning via satellite (GPS or similar), a sensor of turn and a series of circuits to prepare diverse signals coming from the train and that they determine the state of the same: march, unemployment, state of doors, etc.

2. - System of Aid to Ia operation of management of railway blockades via radio, according to characterized Ia vindication 1 because it allows to realise a precise positioning of the trains. The positioning is based on an algorithm that relates the data provided by a receiver of position via satellite (GPS or similar), the data of a gyrometer, the data provided by a Euroloop system or similar and the planes provided by the proprietor of Ia railway infrastructure. These data of positioning are referred to the section of via or passage of the train and the kilometric point been suitable or determined by the proprietor of Ia railway infrastructure. The calculated target location datas are in screen the machinist and are sent to the Command post of the railway operator.

3. - System of Aid to Ia operation of management of railway blockades via radio, according to Ia vindication 1 characterized because it realises an exact positioning of a train, generalizing to all a railway local procurement company and to all the trains of Ia company, providing this information to the Command post with the purpose of to make a correct and profitable use of the transport means through a railway control application by means of system of blockade attended by Positioning.

……

DESCRIPTION (SPANISH):
"SISTEMA DE AYUDA A LA OPERACION DE GESTION DE BLOQUEOS FERROVIARIOS VIA RADIO"

DESCRIPCION

El objeto del invento es un sistema de ayuda a Ia operacion de gestion de bloqueos ferroviarios via radio, que incluye una serie de equipos electronicos que se instalan en un tren para permitir determinar Ia posicion exacta del tren sobre las vias, proporcionar informacion diversa al maquinista del tren, proporcionar informacion al

Puesto de Mando del servicio ferroviario e intercambiar informacion entre el

maquinista del tren y el Puesto de Mando del servicio ferroviario. Con este equipo se consigue una mejora del sistema de operacion ferroviaria de un servicio de trenes.

Campo de Ia tecnica

La invencion (en adelante Sistema de Ayuda) viene a resolver diversos problemas que surgen en Ia operacion ferroviaria como son: Ia determinacion de Ia posicion exacta de todos los trenes de un operador ferroviario, Ia transmision de informacion al maquinista, Ia comunicacion entre el tren como maquina y el Puesto de Mando del sistema ferroviario y Ia comunicacion mediante mensajes del Puesto de Mando con el maquinista.

Por ejemplo, es importante transmitir entre un tren y el Puesto de Mando las siguientes informaciones: posicion exacta del tren en cada instante, servicio que debe realizar el tren, hoja de ruta o libro de itinerario que debe cumplir el maquinista dentro del servicio actual, mensajes sobre el funcionamiento como indicaciones de eventualidades o situaciones temporales, informacion sobre instalaciones ferroviarias disposicion de vias, cambios de vias, etc.

Ademas toda esta informacion se debe transmitir al maquinista con: fiabilidad, claridad, prontitud y sencillez. El Sistema de Ayuda debe completar el trabajo del maquinista anadiendo facilidades y evitando distracciones respecto de sus funciones principales.

Para el controlador del Puesto de Mando del servicio ferroviario esta informacion debe ser: fiable, completa, inmediata y clara. El Sistema de Ayuda debe facilitar su control sobre Ia operacion de Ia totalidad de trenes del servicio.

Para Ia compania de operacion ferroviaria anade fiabilidad en el servicio, informacion inmediata, facilidad para transmitir informacion temporal o variable, etc. El Sistema de Ayuda representa ademas un sistema de seguridad porque puede realizar las labores de posicionamiento del tren cuando fallan los sistemas actuales o tradicionales

……

Ia modificacion de los parametros principales, que muestra una pantalla tipo impreso electronico donde se pueden definir los parametros generales de funcionamiento, o generar el contenido de Ia biblioteca, permitiendo el diseno de todos los niveles de menus de acceso a documentos y Ia definicion de los documentos asociados a una seleccion. La informacion generada por el configurador se transmite al tren mediante el sistema de comunicaciones inalambricas del Modulo de Comunicaciones Embarcado.

CLAIMS (SPANISH):

R E I V I N D I C A C I O N E S

1 .- Sistema de Ayuda a Ia operacion de gestion de bloqueos ferroviarios via radio, caracterizado por estar compuesto por un sistema electronico formado por un computador industrial con pantalla tactil y una serie de programas o aplicaciones y un circuito electronico con un receptor de un sistema de posicionamiento via satelite (GPS o similar), un sensor de giro y una serie de circuitos para acondicionar diversas senales procedentes del tren y que determinan el estado del mismo: marcha, paro, estado de puertas, etc.

2.- Sistema de Ayuda a Ia operacion de gestion de bloqueos ferroviarios via radio, segun Ia reivindicacion 1 caracterizado porque permite realizar un posicionamiento preciso de los trenes. El posicionamiento esta basado en un algoritmo que relaciona los datos suministrados por un receptor de posicion

via satelite (GPS o similar), los datos de un girometro, los datos proporcionados por un sistema Euroloop o similar y los planos proporcionados por el propietario de Ia infraestructura ferroviaria. Estos datos de posicionamiento estan referidos al tramo de via o trayecto del tren y el punto kilometrico convenido o determinado por el propietario de Ia infraestructura ferroviaria. Los datos de posicion calculados se muestran en pantalla al maquinista y son enviados al Puesto de Mando del operador ferroviario.

3.- Sistema de Ayuda a Ia operacion de gestion de bloqueos ferroviarios via radio, segun Ia reivindicacion 1 caracterizado porque realiza un posicionamiento exacto de un tren, generalizando a toda una compania de explotacion ferroviaria y a todos los trenes de Ia compania, suministrando esta informacion al Puesto de Mando con el fin de hacer una correcta y rentable utilizacion del material rodante a traves de una aplicacion de control ferroviario mediante sistema de bloqueo asistido por Posicionamiento.

……

DISPLAY IN, INOR, PA, PAOR, AG AGOR

IN HUO, Lixiang, No. 18 Dongwang Road, Industrial Park, Suzhou, Jiangsu 215123, CN, [NAT: CN, RES: CN], for US only

INOR 霍立祥, 中国江苏省
苏州市工业园区东旺
路18号, Jiangsu 215123, CN

PA POSITEC POWER TOOL (SUZHOU) CO., LTD, No. 18 Dongwang Road, Industrial Park, Suzhou, Jiangsu 215123, CN, [NAT: CN, RES: CN], for all designated states except US;
HUO, Lixiang, No. 18 Dongwang Road, Industrial Park, Suzhou, Jiangsu 215123, CN, [NAT: CN, RES: CN], for US only

PAOR 苏州宝时得电动工具
有限公司,
中国江苏省苏州市工
业园区东旺路18号, Jiangsu
215123, CN, [NAT: CN, RES: CN];
霍立祥, 中国江苏省
苏州市工业园区东旺
路18号, Jiangsu 215123, CN, [NAT: CN, RES: CN]

AG SHANGHAI ESSEN PATENT & TRADEMARK AGENCY, Room 206F, 2F, No.248, Dongxin Rd., Putuo, Shanghai 200063, CN

AGOR 上海翼胜专利商标事
务所（普通合伙）,
中国上海市普陀区东
新路248号2楼206室F, Shanghai 200063, CN

DISPLAY ALLOR

AN 2008097129 PCTFULL ED 20101201 UP 20101201 EDTX 20101201 DED 20080814 DUPD 20100928

TIOR SYSTÈME DE SIGNALISATION ROUTIÈRE LUMINEUSE

TIOR AMPELWARNSYSTEM

TIOR СИСТЕМА
ДОРОЖНОЙСВ
ЕТОВОЙ
СИГНАЛИЗАЦ
ИИ

INOR АГАФОНОВ
Даниил

Александро
вич, Бульвар
Дмитрия,
Донского, д.,
18/4, кв. 103, Москва,
117216, Moscow, RU
PAOR АГАФОНОВ
Даниил
Александро
вич, Бульвар
Дмитрия,
Донского, д.,
18/4, кв. 103, Москва,
117216, Moscow, RU, [NAT: RU, RES: RU]
AGOR АНДРУЩАК
Галина
Николаевна,
ул. Авиамото
рная, д. 53,
Москва, 111250, Moscow, RU

LAF Russian
LA Russian
DT Patent; (Fulltext)
PI WO 2008097129 A2 20080814
DS W: AE AG AL AM AO AT AU AZ BA BB BG BH BR BW BY BZ CA CH CN
CO CR CU CZ DE DK DM DO 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 LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO
NZ OM PG PH PL PT RO RS 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 (ARIPO): BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT
LT LU LV MC MT NL NO PL PT RO SE SI SK TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2008-RU33 20080124
PRAI RU 2007-103684 20070131
IPCI G08G0001-07 [I,A]; G08G0001-095 [I,A]
EPC G08G0001-07; G08G0001-095

ABOR
La présente invention se rapporte à la régulation de la circulation routière et peut servir à réguler la circulation d'automobiles, d'autobus, de motocyclettes, etc., essentiellement dans des zones urbaines. Le but de l'invention est d'améliorer la fiabilité et la durée de vie d'un dispositif tout en en simplifiant la structure. Le système de signalisation routière lumineuse selon l'invention comprend au moins un ensemble constitué d'un feu tricolore principal et d'au moins un feu tricolore supplémentaire situé à une certaine distance du feu principal et avant ce dernier dans le sens de la circulation. Le feu tricolore supplémentaire possèdeau moins un indicateur lumineux, qui reproduit à l'identique l'indication donnée par le signal de l'indicateur lumineux correspondant du feu tricolore principal. L'indicateur lumineux du feu tricolore principal et l'indicateur lumineux du feu tricolore supplémentaire reproduisant son indication sont allumés en parallèle. Les indicateurs lumineux des feux tricolores principal et supplémentaire peuvent se présenter sous la forme soit de lampes à incandescence, soit de diodes électroluminescentes, soit d'une combinaison de ces dernières.

ABOR

Изобретение относится к области регулирования движения транспортных средств и может быть использована для управления движением автомобилей, автобусов, мотоциклов и др., главным образом в городских условиях.
……

DETDOR

СИСТЕМА ДОРОЖНОЙ СВЕТОВОЙ СИГНАЛИЗАЦИИ

Изобретение относится к области регулирования движения транспортных средств и может быть использовано для управления движением автомобилей, автобусов, мотоциклов и др, главным образом в городских условиях.
……

CLMOR

1. Система дорожной световой сигнализации, включающая в себя, по меньшей мере, один комплекс, состоящий из основного светофора и установленн

PCTFULL

ого перед
ним на задан
ном расстоян
ии по ходу
движения
транспорта
одного
дополнитель
ного светофо
ра, имеющего
по меньшей
мере, один
световой
сигнализато
р, дублирующ
ий показания
соответству
ющего светов
ого сигнализ
атора основн
ого светофор
а, отличающи
йся тем, что
световой
сигнализато
р основного
светофора и
дублирующий
его показани
я световой
сигнализато
р по меньшей
мере одного
дополнитель
ного светофо
ра соединены
непосредств
енно друг с
другом,
включены
параллельно
и работают
синхронно.
……

DISPLAY BIB FAM LS

AN 2005108609 PCTFULL ED 20101204 UP 20101204 EDTX 20101204 DUPD 20100426

TIEN METHOD FOR IDENTIFICATION AND ANALYSIS OF CERTAIN MOLECULES USING THE DUAL FUNCTION OF SINGLE STRAND NUCLEIC ACID

TIFR METHODE D'IDENTIFICATION ET D'ANALYSE DE CERTAINES MOLECULES AU MOYEN DE LA DOUBLE FONCTION D'ACIDE NUCLEIQUE A SIMPLE BRIN

IN KIM, Sung Chun, 202, Happy Ville, 89-22, Cheongun-dong, Jongno-gu, Seoul 110-030, KR, [NAT: KR, RES: KR]

PA GENOPROT INC., 11th floor, Room 3, Daeryung Techno, Tower 7-Cha, 489-11, Gasan-dong, Geumcheon-gu, Seoul 153-774, KR, [NAT: KR, RES: KR], for all designated states except US;
KIM, Sung Chun, 202, Happy Ville, 89-22, Cheongun-dong, Jongno-gu, Seoul 110-030, KR, [NAT: KR, RES: KR]

AG SHIN, Dong In, 304, Dukam Building, 1457-2, Seocho3-dong, Seocho-gu,

```
       Seoul 137-867, KR
LAF    Korean
LA     Korean
DT     Patent; (Fulltext)
PI     WO 2005108609 A1   20051117
DS     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 HR HU ID
                      IL IN IS JP KE KG KM KP KZ LC LK LR LS LT LU LV MA MD MG
                      MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE
                      SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
                      ZM ZW
       RW (ARIPO):    BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
       RW (EAPO):     AM AZ BY KG KZ MD RU TJ TM
       RW (EPO):      AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT
                      LU MC NL PL PT RO SE SI SK TR
       RW (OAPI):     BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG BF BJ CF
                      CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI     WO 2005-KR1294        20050504
PRAI   KR 2004-31788         20040506
       KR 2004-78606         20041004


PATENT FAMILY INFORMATION INPADOCDB   COPYRIGHT 2011 EPO / FIZ KARLSRUHE on STN
 AN    2005108609  PCTFULL

 +-------------PRAI-------------+      +--------------AI--------------+
 KR 2004-31788        A  20040506      KR 2004-31788        A  20040506
                                       WO 2005-KR1294       W  20050504
 KR 2004-78606        A  20041004      KR 2004-78606        A  20041004
                                       WO 2005-KR1294       W  20050504

 +--------------AI--------------+      +--------------PI--------------+
 KR 2004-31788        A  20040506      KR 2005106759        A  20051111
                                       KR 670799            B1 20070117
 KR 2004-78606        A  20041004      KR 2006029771        A  20060407
                                       KR 691799            B1 20070312
 WO 2005-KR1294       W  20050504      WO 2005108609        A1 20051117

 2 priorities, 3 applications, 5 publications

LEGAL STATUS  INPADOCDB   COPYRIGHT 2011    EPO / FIZ KARLSRUHE on STN
AN     2005108609  PCTFULL
20040506 KRA      PRI Patent application
                      KR 2004-31788        A  20040506
20041004 KRA      PRI Patent application
                      KR 2004-78606        A  20041004
20050504 WOW      APP International application Number
                      WO 2005-KR1294       W  20050504
20051117 WOA1     PUB INTERNATIONAL APPLICATION PUBLISHED WITH INTERNATIONAL
                      SEARCH REPORT
                      WO 2005108609        A1 20051117
20051117 WOAK       + DESIGNATED STATES
                      WO                   A1
                      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 HR HU ID
                      IL IN IS JP KE KG KM KP KZ LC LK LR LS LT LU LV MA MD MG
                      MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE
                      SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
                      ZM ZW
20051117 WOAL       + DESIGNATED COUNTRIES FOR REGIONAL PATENTS
                      WO                   A1
```

```
                      GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW AM AZ BY KG KZ MD
                      RU TJ TM AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE
                      IS IT LT LU MC NL PL PT RO SE SI SK TR BF BJ CF CG CI CM
                      GA GN GQ GW ML MR NE SN TD TG
20060111 WO121        EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS
                      DESIGNATED IN THIS APPLICATION
20061107 WONENP       NON-ENTRY INTO THE NATIONAL PHASE IN:
                      DE
                      ......................................20070322
20061107 WOWWW      - WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE
                      DE
                  NIF Lapses, Expiries, Withdrawals, Refusals
                      ......................................20071004
20070627 WO122      - EP: PCT  APP. NOT ENT. EUROP. PHASE
                      ......................................20070628
```

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

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

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

In Japan
JAICI (Japan Association for
International Chemical Information)
STN Japan
Nakai Building
6-25-4 Honkomagome, Bunkyo-ku
Tokyo 113-0021, Japan
Phone: +81-3-5978-3601 (Technical Service)
+81-3-5978-3621 (Customer Service)
Fax: +81-3-5978-4090
Email: support@jaici.or.jp (Technical Service)
customer@jaici.or.jp (Customer Service)
Internet: www.jaici.or.jp