

## GBFULL (United Kingdom (GB) Patents Full-Text)

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

**File Type** Full-Text

**Features**

|                                  |   |             |                                     |
|----------------------------------|---|-------------|-------------------------------------|
| Thesauri                         | International Patent Classification (/IPC ), Cooperative Patent Classification (/CPC), European Patent Classification (/EPC and /ICO) |             |                                     |
| <a href="#">Alerts (SDIs)</a>    | Weekly or monthly (weekly is the default)   |             |                                     |
| CAS Registry Number® Identifiers | <input type="checkbox"/>  | Page Images | <input type="checkbox"/>            |
| <a href="#">Keep &amp; Share</a> | <input checked="" type="checkbox"/>   | SLART       | <input checked="" type="checkbox"/> |
| Learning Database                | <input type="checkbox"/>  | Structures  | <input type="checkbox"/>            |

**Record Content**

- Full-text of patent applications and patent specifications published in the United Kingdom from 1782 onwards.
- Patent applications begin in 1982, when the British Intellectual Property Office started to publish applications.
- Database records comprise all documents published for one application. Records of the database contain bibliographic data, including patent applicant and inventor information, patent, application and priority application data, IPC, CPC (including CPC combination sets), and EPC classification codes, plus the searchable text of the complete documents, comprising titles, abstracts, description and claims.
- Numeric values of 59 physical and chemical properties are searchable in about 5000 unit variants within in all full-text fields.
- Clipped images (mostly front-page images) from 1893 onwards are also included, if available.
- Legal status data, family and citation display formats from the INPADOCDB database are available.

Text has been created by Optical Character Recognition (OCR) software. Therefore, characters may be misinterpreted, or portions of the text may be incomplete. A small percentage of records are absent because they failed to scan.

**File Size**

- More than 2.9 million family records with more than 3.73 million publications (08/2020)
- More than 1.81 million front page images from 1893 to present (08/2020)

**Coverage** Comprehensive 1893 to present, first document from 1782

**Updates** Weekly

**Language** English

**Database Producer**

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**Database  
Supplier**

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**Sources**

- Patent applications and granted patents published by the United Kingdom Intellectual Property Office
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**User Aids**

- Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
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**Cluster**

- AEROTECH
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- CORPSOURCE
- ENGINEERING
- FULLTEXT
- HPATENTS
- NPS
- PATENTS
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STN Database Cluster information:

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## Search and Display Field Codes

If multiple search terms are linked with and AND-operator, all terms are searched in the complete database record, i.e. in all publications referring to one application. For a search in a specific publication of the record, connect the search term and the patent kind code with the (L)-proximity operator, e.g. S BOREHOLE/AB, TI, CLM (L) GBA/PK limits the search to British applications GBA.

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 title (TI), abstract (AB), detailed description (DETD), claims (CLM), and main claims (MCLM)) | None<br>or<br>/BI               | S TRANSISTOR AND ELECTRODE<br>S ACOUSTIC SENSOR<br>S ?TRANSFER? | TI, AB, DETD,<br>CLM, MCLM   |
| Abstract*  | /AB (or<br>/ABEN)               | S BOREHOLE/AB   | AB                           |
| Accession Number   | /AN                             | S 2403388/AN  | AN                           |
| Application Country<br>(WIPO code and text)  | /AC                             | S GB/AC   | AI                           |
| Application Date (1)   | /AD                             | S AD=JAN 2003   | AI                           |
| Application Kind Code  | /AK                             | S GBA/AK  | AI                           |
| Application Number (2)   | /AP                             | S GB2000-10050/AP   | AI                           |
| Application Number Original  | (or /APPS)<br>/APO (or<br>/AIO) | S 2000GB-0010069/APPS<br>S GB1817326/APO                        | APO                          |
| Application Year (1)   | /AY                             | S AY>=2000  | AI                           |
| Claims*  | /CLM<br>(or /CLMEN)             | S DERIVATION/CLM  | CLM                          |
| Cooperative Patent Classification (3)  | /CPC                            | S C12N0009-1085/CPC   | CPC                          |
| Cooperative Patent Classification, Action<br>Date (1)  | /CPC.ACD                        | S 20121113/CPC.ACD  | CPC.TAB                      |
| Cooperative Patent Classification,<br>Keywords   | /CPC.KW                         | S C12N0009-1085/CPC (S) I/CPC.KW                                | CPC.TAB                      |
| Cooperative Patent Classification,<br>Version (1)  | /CPC.VER                        | S 20130101/CPC.VER  | CPC.TAB                      |
| Data Entry Date (1)  | /DED                            | S 20181206/DED  | DED                          |
| Data Update Date (1)   | /DUPD                           | S 20181207/DUPD   | DUPD                         |
| Document Type<br>(code and text)   | /DT<br>(or /TC)                 | S P/DT<br>S PATENT/DT   | DT                           |
| Entry Date (1)   | /ED                             | S ED=JAN 2005   | ED                           |
| Entry Date Full-Text (1)   | /EDTX                           | S 20181211/EDTX   | EDTX                         |
| EPC, Keyword Terms   | /EPC.KW                         | S B17/00/EPC.KW   | EPC                          |
| European Patent Classification (3)   | /EPC<br>(or /ECLA or<br>/EPCLA) | S A01B0001-02B/EPC  | EPC                          |
| Field Availability   | /FA                             | S AB/FA   | FA                           |
| Graphic Image Size (1)   | /GIS                            | S L1 AND 400-500/GIS  | GIS                          |
| ICO (in-computer-only) Classification (3)  | /ICO                            | S L29C0065:16A6B/ICO  | ICO                          |
| ICO Keyword Terms  | /ICO.KW                         | S ADD/ICO.KW  | ICO                          |
| IdT (Indeling der Techniek)  | /IDT                            | S B60R0027-00/IDT   | IDT                          |
| International Patent Classification<br>(ICM, ICS, IPCI, IPCR) (3)  | /IPC                            | S A01B001/IPC   | IPC, ICM, ICS,<br>IPCI, IPCR |
| International Patent Classification<br>(ICM, ICS)  | /IC (or<br>/IPCMS)              | S A24B/IC   | IC, ICM, ICS                 |
| Inventor   | /IN<br>(or /AU)                 | S MANDEL WALTER/IN<br>S MANDEL ?/IN                             | IN                           |
| Inventor, Country  | /IN.CNY                         | S FR/IN.CNY   | IN                           |
| IPC, Action Date (1)   | /IPC.ACD                        | S 20051008/IPC.ACD  | IPC.TAB                      |

## General Search Fields (cont'd)

| Search Field Name  | Search Code              | Search Examples   | Display Codes |
|--|--------------------------|---|---------------|
| IPC, Additional  | /ICA (or<br>/IPCA)       | S A61K0007-00/ICA   | ICA           |
| IPC, Index   | /ICI (or<br>/IPCIN)      | S A61K0007-06/ICI   | ICI           |
| IPC, Initial   | /IPCI                    | S B21B0001/IPCI   | IPCI          |
| IPC, Keyword Terms   | /IPC.KW                  | S INITIAL/IPC.KW  | IPC.TAB       |
| IPC, Main  | /ICM (or<br>/IPCM)       | S A01N001/ICM   | ICM           |
| IPC, Reclassified  | /IPCR                    | S B21B0001-34/IPCR  | IPCR          |
| IPC, Reform  | /IPC.REF                 | S A01B0001-16/IPC.REF   | IPC           |
| IPC, Secondary   | /ICS                     | S A01B001-16/ICS  | ICS           |
| IPC, Version   | /IPC.VER (or<br>/IC.VER) | S 7/IPC.VER   | IPC.TAB       |
| Key Terms  | /KT                      | S PROTEIN SYNTHESIS/KT<br>S "BIOAVAILABLE PROTEIN AND<br>STARCH"/KT   | KT            |
| Language (code and text)                                   | /LA                      | S EN/LA   | LA            |
| Language, Filing (code and text)                           | /LAF                     | S ENGLISH/LAF   | LAF           |
| Main Claim*  | /MCLM (or<br>/MCLMEN)    | S ?FRACTURE?/MCLM   | MCLM          |
| Number of Claims (1)                                       | /CLMN                    | S 5-7/CLMN  | CLMN          |
| Number of Paragraphs in DETD<br>(Detailed Description) (1) | /DETN                    | S DETN<10   | DETN          |
| Patent Applicant (4)                                       | /PA<br>(or /CS)          | S BASF AG/PA  | PA            |
| Patent Applicant Country<br>(WIPO code and text)           | /PA.CNY                  | S DE/PA.CNY   | PA.CNY        |
| Patent Country (WIPO code and<br>text)                     | /PC                      | S GB/PC   | PI            |
| Patent Information Publication<br>Type                     | /PIT                     | S "GBA PATENT SPECIFICATION (UNDER<br>NO. 2000000) OR PUBLISHED PATENT<br>APPLICATION (FROM NO. 2000000)"/PIT | PIT           |
| Patent Kind Code   | /PK                      | S GBA/PK  | PI            |
| Patent Number (2)  | /PN (or<br>/PATS)        | S GB2003005/PN  | PI            |
| Patent Number Original                                     | /PNO                     | S GB201301786/PNO   | PNO           |
| Patent Number/Kind Code                                    | /PNK                     | S GB2000003 A/PNK   | PI, PNK       |
| Priority Country<br>(WIPO code and text)                   | /PRC                     | S AU/PRC<br>S AUSTRALIA/PRC   | PRAI          |
| Priority Date (1)  | /PRD                     | S PRD=APRIL, 2 2003<br>S 20030402/PRD   | PRAI          |
| Priority Kind Code   | /PRK                     | S DEA/PRK   | PRAI          |
| Priority Number (2)  | /PRN                     | S DE2000-10001516/PRN   | PRAI          |
| Priority Number Original                                   | /PRNO                    | S EP12001001/PRNO   | PRAO          |
| Priority Year (1)  | /PRY                     | S 1993/PRY  | PRAI          |
| Priority Year, First (1)                                   | /PRYF                    | S 1993-1994/PRYF  | PRAI, PRYF    |
| Publication Date (1)                                       | /PD                      | S PD=JAN-FEB 2003   | PI            |
| Related Application Country<br>(WIPO code and text)        | /RLC                     | S WO/RLC  | RLI           |
| Related Application Date (1)                               | /RLD                     | S 20170203/RLD  | RLI           |
| Related Application Number                                 | /RLN                     | S WO 2017-CA24/RLN  | RLI           |
| Related Application Type                                   | /RLT                     | S PCT APPLICATION/RLT   | RLI           |
| Related Application Year (1)                               | /RLY                     | S 2017/RLY  | RLI           |
| Publication Year (1)                                       | /PY                      | S PY>2003 AND L1  | PI            |
| Title *  | /TI (or /TIEN)           | S FLUID###/TI   | TI, TIEN      |
| Update Date (1)  | /UP                      | S UP=APR 2009   | UP            |

(1) Numeric search field that may be searched using numeric operators or ranges.

(2) 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.

(3) An online thesaurus is available in this field.

(4) Search with implied (S) proximity is available in this field.

## Property Fields<sup>1)</sup>

In GBFULL a numeric search for a specific set of physical properties (/PHP) is available within the full-text fields (TI, AB, DETD, CLM, BI). 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                 | Symbol            | Search Examples                            |
|--------------|---------------------------------|----------------------|-------------------|--|
| /AOS         | Amount of substance             | Mol                  | mol               | S 10 /AOS                                  |
| /BIR         | Bit Rate                        | Bit/Second           | bit/s             | S 8000-10000/BIR                           |
| /BIT         | Stored Information              | Bit                  | Bit               | S BIT > 3 MEGABIT                          |
| /CAP         | Capacitance                     | Farad                | F                 | S 1-10 MF/CAP                              |
| /CDN         | Current Density                 | Ampere/Square Meter  | A/m <sup>2</sup>  | S CDN>10 A/M**2                            |
| /CMOL        | Molarity, Molar Concentration   | Mol/Liter            | mol/L             | S UREA/BI (S) 8/CMOL                       |
| /CON         | Conductance                     | Siemens              | S                 | S 1S-3/CON                                 |
| /DB          | Decibel                         | Decibel              | dB                | S DB>50                                    |
| /DEG         | Degree                          | Degree               | °                 | S CYLINDER/BI (S) 45/DEG                   |
| /DEN (/C)    | Density (Mass Concentration)    | Kilogram/Cubic Meter | kg/m <sup>3</sup> | S 5E-3-10E-3/DEN                           |
| /DEQ         | Dose Equivalent                 | Sievert              | Sv                | S 100/DEQ                                  |
| /DOS (/LD50) | Dosage                          | Milligram/Kilogram   | mg/kg             | S DOS>0.8                                  |
| /DV          | Viscosity, dynamic              | Pascal * Second      | Pa * s            | S DV>5000                                  |
| /ECD         | Electric Charge Density         | Coulomb/Square Meter | C/m <sup>2</sup>  | S ECD>10                                   |
| /ECH (/CHA)  | Electric Charge                 | Coulomb              | C                 | S 0.0001-0.001/ECH                         |
| /ECO (/ECND) | Electrical Conductivity         | Siemens/Meter        | S/m               | S ECO>800 S/M (15A) AQUEOUS                |
| /ELC (/ECC)  | Electric Current                | Ampere               | A                 | S 1-10/ELC                                 |
| /ELF (/ECF)  | Electric Field                  | Volt/Meter           | V/m               | S 200/ELF                                  |
| /ENE         | Energy                          | Joule                | J                 | S DROPLETS (10A) 40 JOULE - 70 JOULE /ENE  |
| /ERE (/ERES) | Electrical Resistivity          | Ohm * Meter          | Ohm * m           | S ERE>0.1                                  |
| /FOR         | Force                           | Newton               | N                 | S 50 N /FOR                                |
| /FRE (/F)    | Frequency                       | Hertz                | Hz                | S OSCILLAT?/BI (S) 1- 3/FRE                |
| /IU          | International Unit              | none                 | IU                | S IU>1000 (P) VITAMIN A                    |
| /KV          | Viscosity, kinematic            | Square Meter/Second  | m <sup>2</sup> /s | S POLYETHYLENE WAX/BI (6A) 200-300 cST /KV |
| /LEN (/SIZ)  | Length, Size                    | Meter                | m                 | S 1-4/LEN                                  |
| /LUME        | Luminous Emittance, Illuminance | Lux                  | lx                | S 10-50/LUME                               |
| /LUMF        | Luminous Flux                   | Lumen                | Lm                | S LUMF>1000                                |
| /LUMI        | Luminous Intensity              | Candela              | cd                | S LUMI<4                                   |
| /M           | Mass                            | Kilogram             | kg                | S ALLOY/BI (30A) 1E-10-1E-5/M              |
| /MCH         | Mass to Charge Ratio            | none                 | m/z               | S MCH=1                                    |
| /MFD (/MFS)  | Magnetic Flux Density           | Tesla                | T                 | S MFD>102                                  |
| /MFR (/MFL)  | Mass Flow Rate                  | Kilogram/Second      | kg/s              | S MFR<0.1                                  |

Property Fields<sub>1)</sub> (cont'd)

| Field Code                                 | Property   | Unit  | Symbol                                 | Search Examples  |
|--|--|---|--|--|
| /MM (/MW,<br>/MOM)<br>/MOLS                | Molar Mass   | Gram/Mol  | g/mol                                  | S 2000-3000 G/MOL/MM   |
|  | Molality of<br>Substance                                 | Mol/Kilogram  | mol/kg                                 | S 01.-10 MOL/KG/MOLS   |
| /MVR                                       | Melt Volume<br>Rate,<br>Melt Flow Rate                   | none  | g/10 min                               | S 3/MVR  |
| /NUC (/NUTC)                               | Nutrition<br>Content                                     | none  | g/100 kcal                             | S NUC/PHP  |
| /PER                                       | Percent<br>(Proportionality)                             | none  | %                                      | S POLYMER?/AB (5A) 4/PER   |
| /PERA                                      | Permittivity,<br>Absolute                                | Farad/Meter   | F/m                                    | S 1-10/PERA  |
| /PERR                                      | Permittivity,<br>Relative                                | none  |  | S 1500-2000/PERR   |
| /PHV (/PH)<br>/POW (PW)                    | pH Value<br>Power  | pH<br>Watt  | pH<br>W                                | S 7.4-7.6/PHV<br>S "HG-XE-?"/BI (S) 100-200<br>WATT/POW                                  |
| /PPM<br>/PRES (/P)                         | Parts per million<br>Pressure                            | Ppm<br>Pascal   | ppm<br>Pa                              | S 100 PPM /PPM (10A) ADDITIVE/BI<br>S (VACUUM (5A) DISTILL?)/BI (S)<br>1000-1100/PRES    |
| /RAD<br>/RES                               | Radioactivity<br>Electrical<br>Resistance                | Becquerel<br>Ohm  | Bq<br>Ohm                              | S RAD/PHP<br>S SENSOR /BI (S) 10- 100/RES  |
| /RI<br>/RSP                                | Refractive Index<br>Rotational<br>Speed                  | none<br>Revolution/Minute                                   |  | S 3-4/RI<br>S 2 RPM - 100 RPM /RSP (S)<br>ENGINE/BI                                      |
| /SAR                                       | Area /Surface<br>Area                                    | Square Meter  | m <sup>2</sup>                         | S PLATE/BI (S) 10 M**2 - 100 M**2<br>/SAR  |
| /SOL (/SLB)<br>/STSC (/ST)<br>/TCO (/TCND) | Solubility<br>Surface Tension<br>Thermal<br>Conductivity | Gram/100 gram<br>Joule /Square Meter<br>Watt/Meter * Kelvin | g/100 g<br>J/m <sup>2</sup><br>W/m * K | S SOL>20 G/100G (5A) WATER<br>S 60 J/M**2/STSC<br>S 1/TCO (S) HEAT?                      |
| /TEMP (/T)<br>/TIM                         | Temperature<br>Time                                      | Kelvin<br>Second  | K<br>s                                 | S 20-25/TEMP<br>S ?/INCUB?/BI (10A) 50 S - 150 S<br>/TIM                                 |
| /VEL (/V)<br>/VELA<br>/VLR                 | Velocity<br>Velocity, angular<br>Volumetric Flow<br>Rate | Meter per Second<br>Radian/Second<br>Cubic Meter/Second     | m/s<br>rad/s<br>m <sup>3</sup> /s      | S REDUC?/BI (S) 1E-3-5E-3/VEL<br>S VELA>10<br>S 1 M**3/S - 2 M**3/S /VLR (S)<br>ABRASIVE |
| /VOL<br>/VOLT                              | Volume<br>Voltage  | Cubic Meter<br>Volt   | m <sup>3</sup><br>V                    | S 1E-8-2E-8/VOL.EX<br>S TENSION/BI (10A) 5E-3 V<br><VOLT<7E-3 V                          |
| /WAC                                       | Water Activity   | none  |  | S WAC/PHP  |

(1) Exponential format is recommended for the search of particularly high or low values, e.g. 1.8E+7 or 1.8E7 (for 18000000) or 9.2E-8 (for 0.00000092).

## International Patent Classification (/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 editions.

| 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     |
| 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        |
| ED                | Complete title of the SELF term and IPC manual edition       | E C01F001-00+ED/IPC        |

## ECLA (/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 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 G01J003-443+BT/EPC                |
| CODE              | Classification Code (SELF, CODE)                                     | E SCRAPER BIASING<br>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 G01J003-44B+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 G01J0003-443+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    |

(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.

## DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU. The fields are displayed or printed in the order requested.

The information of the latest publication is displayed by default. To display the content for all levels of the record you can combine all display fields and formats with the qualifier .M except FA, FAM, CFAM, LS, LS2, SCAN, and TRIAL.

For displaying a particular publication of a database record, you can simply add for certain display field the kind code to the appropriate display format, e.g. ALL.A1. Fields that allow this are indicated by a number (3).

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 (ABS)    | Abstract  | D TI AB 1-5 |
| AI (AP) (1) | Application Information                         | D AI        |
| AN          | Accession Number                                | D L3 AN     |
| APO (2)     | Application Information Original                | D APO       |
| CLM (3)     | Claims  | D CLM       |
| CLMN (3)    | Number of Claims                                | D CLMN      |
| CPC         | Cooperative Patent Classification               | D CPC       |
| CPC.TAB     | CPC, in Tabular Version                         | D CPC.TAB   |
| DED         | Data Entry Date                                 | D DED       |
| DETD (3)    | Detailed Description                            | D DETD      |
| DETN (3)    | Number of Paragraphs in DETD                    | D DETN      |
| DT (TC)     | Document Type                                   | D DT        |
| DUPD        | Data Update Date                                | D DUPD      |
| ED          | Entry Date                                      | D ED        |
| EDTX        | Entry Date Full-Text                            | D EDTX      |
| EPC         | European Patent Classification                  | D EPC       |
| FA          | Field Availability (for all publication levels) | D FA        |
| GI          | Graphic Image                                   | D GI        |
| GIS (2)     | Graphic Image Size                              | D GIS       |
| GIT (2)     | Graphic Image Type                              | D GIT       |



**DISPLAY and PRINT Formats (cont'd)**

| <b>Format</b>  | <b>Content</b>  | <b>Examples</b>   |
|--|---|---|
| IC<br>ICA (IPCA)<br>ICI<br>ICM<br>ICO<br>ICS<br>IDT<br>IN (AU)<br>IN.CNY<br>IPC.REF<br>IPCI<br>KT<br>IPCR<br>LA<br>LAF<br>MCLM (5)<br>PA (CS)<br>PA.CNY<br>PI (PN, PATS) (1)<br>PIT<br>PNK<br>PNO (2)<br>PRAI (PRN) (1, 5)<br>PRAO (PRNO) (2)<br>PRYF<br>RLI<br>TI<br>UP   | IPC (format contains ICM, ICS)<br>IPC, Additional<br>IPC, Index<br>IPC, Main<br>ICO (in-computer-only) Classification<br>IPC, Secondary<br>IDT Classification<br>Inventor<br>Inventor, Country<br>IPC, Reform<br>IPC, Initial<br>Key Terms<br>IPC, Reclassified<br>Language<br>Language of Filing<br>Main Claim<br>Patent Applicant<br>Patent Applicant Country<br>Patent Information<br>Patent Information Publication Type<br>Patent Number/Kind Code<br>Patent Number Original<br>Priority Information<br>Priority Number, Original Format Priority Year, First<br>Priority Year, First<br>Related Application Information<br>Title<br>Update Date   | D IC<br>D ICA<br>D ICI<br>D ICM<br>D ICO<br>D ICS<br>D IDT<br>D IN<br>D IN.CNY<br>D IPC.REF<br>D IPCI<br>D KT<br>D IPCR<br>D LA<br>D LAF<br>D MCLM<br>D PA<br>D PA.CNY<br>D PI<br>D PIT<br>D PNK<br>D PNO<br>D PRAI<br>D PRAO<br>D PRYF<br>D RLI<br>D TI<br>D UP            |
| ALL (1, 3)<br><br>ALLG (1)<br>IALL (1,3)<br>IALLG (1)<br>APPS (1,3)<br>BIB (1,3)<br><br>IBIB (1,3)<br>BRIEF (1,3)<br><br>BRIEFG (1,4)<br>IBRIEF (1,3)<br>IBRIEFG (1,4)<br>CPC.TAB<br>FAM (1, 2)<br>CFAM (1, 2)<br>IND<br>IPC<br>IPC.TAB<br>LS (2)<br>LS2 (2)<br>MAX (ALL.M) (1)<br><br>MAXG (ALLG.M) (1)<br>IMAX (IALL.M) (1)<br>IMAXG (IALLG.M) (1)<br>PATS<br>RE (2) | AN, ED, UP, EDTX, DED, DUPD, TI, IN, PA, PA.CNY, LA, LAF, DT, PIT, PI, AI, RLI, PRAI, IPC, CPC, EPC, ICO, IDT, AB, DETD, CLM, KT<br><br>ALL, plus graphic image<br>ALL, indented with text labels<br>IALL, plus graphic image<br>AI, RLI, PRAI<br>AN, ED, UP, EDTX, DED, DUPD, TI, IN, PA, LA, LAF, DT, PIT, PI, AI, RLI, PRAI<br><br>BIB, indented with text labels<br>AN, ED, UP, EDTX, DED, DUPD, TI, IN, PA, LAF, DT, PIT, PI, AI, RLI, PRAI, IPC, CPC, EPC, ICO, IDT, AB, MCLM, KT<br><br>BRIEF, plus graphic image<br>BRIEF, indented with text labels<br>BRIEFG, indented with text labels<br>CPC, CPC.KW, CPC.ACD, CPC.VER in tabular format<br>AN, table of patent family information (from NPADOCDB)<br>AN, Condensed family format (from INPADOCDB)<br>IPC (ICA, ICI, ICM, ICS, IPCI, IPCR), CPC, EPC, ICO, IDT<br>International Patent Classification (ICA, ICI, ICM, ICS, IPCI, IPCR)<br>IPC, IPC.KW, IPC.ACD, IPC.VER, in tabular version<br>Legal Status (from INPADOCDB)<br>Legal Status (from INPADOCDB), detailed version with display headers<br>AN, ED, UP, EDTX, DED, DUPD, TI, IN, PA, PA.CNY, LA, LAF, DT, PIT, PI, AI, RLI, PRAI, IPC, CPC, EPC, ICO, IDT, AB, DETD, CLM, KT, FA for all levels of publication<br>MAX, plus graphic image<br>MAX, indented with text labels<br>IMAX, plus graphic image<br>PI, RLPN<br>Citations of patent and non-patent literature (from INPADOCDB) | D ALL<br><br>D ALLG<br>D IALL<br>D IALLG<br>D APPS<br>D BIB<br><br>D IBIB<br>D BRIEF<br><br>D BRIEFG<br>D IBRIEF<br>D IBRIEFG<br>D CPC.TAB<br>D FAM<br>D CFAM<br>D IND<br>D IPC<br>D IPC.TAB<br>D LS<br>D LS2<br>D MAX<br><br>D MAXG<br>D IMAX<br>D IMAXG<br>D PATS<br>D RE |

## DISPLAY and PRINT Formats (cont'd)

| Format  | Content   | Examples  |
|---|---|---|
| SCAN (4)<br>STD (1,3)<br><br>STDG (1)<br>ISTD (1,3)<br>ISTDG (1)<br>TRIAL (TRI, SAMPLE,<br>SAM, FREE) | TI (random display without answer numbers)<br>AN, ED, UP, EDTX, DED, DUPD, TI, IN, PA, LA, LAF, DT, PIT, PI, AI,<br>PRAI, IPC, CPC, EPC, ICO, IDT (STD is default)<br><br>STD, plus graphic image<br>STD, indented with text labels<br>ISTD, plus graphic image<br>TI, FA, DETN, CLMN, GIS, GIT | D SCAN<br>D STD<br><br>D STDG<br>D ISTD<br>D ISTDG<br>D TRIAL |
| HIT<br>KWIC<br>OCC  | Hit term(s) and field(s)<br>Up to 50 words before and after hit term(s) (KeyWord-In-Context)<br>Number of occurrences of hit term(s) and field(s) in which they occur   | D HIT<br>D KWIC<br>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) You can combine this display field with the qualifier .PK (Patent Kind Code) to display the content for a certain publication level of a record, e.g. STD.A8.
- (4) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.
- (5) If priority information is not available for a certain document, this information is taken from the application information of this document and marked with an asterisk (\*).

## 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).

You can combine all fields except FA with the qualifier .M to SELECT/ANALYZE the content of all publication levels.

| Field Name                       | Field Code | ANALYZE/<br>SELECT (1) | SORT |
|----------------------------------|------------|------------------------|------|
| Abstract                         | AB         | Y                      | N    |
| Accession Number                 | AN         | Y                      | Y    |
| Application Country              | AC         | Y                      | N    |
| Application Date                 | AD         | Y                      | N    |
| Application Information          | AI (AP)    | Y (2)                  | N    |
| Application Information Original | AIO (APO)  | Y                      | N    |
| Application Year                 | AY         | Y                      | N    |
| CPC Classification               | CPC        | Y                      | Y    |
| Data Entry Date                  | DED        | Y                      | Y    |
| Data Update Date                 | DUPD       | Y                      | Y    |
| Document Type                    | DT         | Y                      | Y    |
| Entry Date                       | ED         | Y                      | Y    |
| Entry Date Full-Text             | EDTX       | Y                      | Y    |

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

| Field Name  | Field Code | ANALYZE/<br>SELECT (1) | SORT |
|---|------------|------------------------|------|
| European Patent Classification  | EPC        | Y                      | Y    |
| Field Availability  | FA         | Y                      | N    |
| Graphic Image Size  | GIS        | Y                      | N    |
| International Patent Classification                                   | IC         | Y                      | N    |
| Inventor  | IN (AU)    | Y                      | Y    |
| ICO (in-computer-only) Classification                                 | ICO        | Y                      | Y    |
| IdT Classification  | IDT        | Y                      | Y    |
| IPC (ICM, ICS, ICA, ICI, IPCI, IPCR)                                  | IPC        | Y                      | Y    |
| IPC, Additional   | IPCA       | Y                      | Y    |
| IPC, Advanced Level Symbols   | IPC.A      | Y (4)                  | N    |
| IPC, Advanced Level Symbols for Invention                             | IPC.AI     | Y (4)                  | N    |
| IPC, Core Level Symbols   | IPC.C      | Y (4)                  | N    |
| IPC, Core Level Symbols for Invention                                 | IPC.CI     | Y (4)                  | 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                      | Y    |
| IPC, Secondary  | ICS        | Y                      | Y    |
| Language  | LA         | Y                      | Y    |
| Language of Filing  | LAF        | Y                      | Y    |
| Key Terms   | KT         | Y                      | N    |
| Number of Claims  | CLMN       | Y (5)                  | N    |
| Number of Paragraphs in DETD  | DETN       | Y (5)                  | N    |
| Occurrence Count of Hit Terms   | OCC        | N                      | Y    |
| Patent Applicant Country  | PA.CNY     | Y                      | Y    |
| Patent Applicant  | PA (CS)    | Y                      | Y    |
| Patent Country  | PC         | Y                      | Y    |
| Patent Information Publication Type                                   | PIT        | Y                      | Y    |
| Patent Kind Code  | PK         | Y                      | Y    |
| Patent Number   | PI (PN)    | Y (default)            | Y    |
| Patent Number/Kind Code   | PNK        | Y                      | Y    |
| Patent Number Original  | PNO        | Y                      | Y    |
| Pre-IPC8 Symbols from the ICM and first IPC8 values from 2006-present | IPC.F      | Y (4)                  | N    |
| Priority Country  | PRC        | Y                      | Y    |
| Priority Date   | PRD        | Y                      | Y    |
| Publication Year  | PY         | Y                      | Y    |
| Related Application Country   | RLC        | Y                      | Y    |
| Related Application Date  | RLD        | Y                      | Y    |
| Related Application Number  | RLN        | Y                      | Y    |
| Related Application Type  | RLT        | Y                      | Y    |
| Related Application Year  | RLY        | Y                      | Y    |
| Title   | TI         | 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) Selects or analyzes application numbers with /AP appended to the terms created by SELECT.
- (3) Appends /BI to the terms created by SELECT.
- (4) Appends /IPC to the terms created by SELECT.
- (5) You can combine these display fields with the qualifier .PK (Patent Kind Code) to select the content for a certain publication level of a record. The normal search field code without the .PK extension is appended to selected terms.

## Sample Records

### DISPLAY MAXG (STN format)

AN 2418818 GBFULL ED 20140615 UP 20190108 EDTX 20140615  
 DUPD 20181218  
 TI A method and an arrangement to provide a common platform for tencoder and  
 decoder of various CELP codecs  
 IN ARORA NITIN, DE  
 PA SIEMENS AG, DE  
 LAF English  
 LA English  
 DT Patent; (Fulltext)  
 PIT GBB AMENDED PATENT SPECIFICATION [UNDER NO. 2000000] or PATENT  
 SPECIFICATION [FROM NO. 2000000]  
 PI GB 2418818 B 20070502  
 AI GB 2004-21852 A 20041001  
 PRAI GB 2004-21852 20041001  
 IPCI G10L0019-04 [I,A]  
 IPCR G10L0019-12 [I,A]; G10L0019-14 [I,A]; G10L0019-16 [I,A]  
 CPC G10L0019-04; G10L0019-12; G10L0019-16  
 EPC G10L0019-04; G10L0019-12; G10L0019-16

AB

Equivalent from GB2418818A

A method and an arrangement to provide a common platform for the encoder  
 and decoder of various CELP codecs used during data/speech transmission  
 within a communication network, wherein common portions (1 to 4) of said  
 codecs were extracted and implemented on the common platform  
 communicating with the remaining portions (5 to 10) of said codecs.

DETD

A method and an arrangement to provide a common platform for the encoder  
 and decoder of various CELP codecs

DESCRIPTION.

The invention relates to a method an arrangement to provide a common  
 platform for the encoder and decoder of various CELP codecs used during  
 data/speech transmission within a communication networks.

BACKGROUND OF INVENTION.

The presented invention particularly concerns in the development of the  
 VoIP access and trunk gateways. The demands of the customer features are  
 increasing, wherein resources in the gates and memory in used DSP, FPGA  
 or ASIC is limited. Supporting all the features or increasing number of  
 features leads - on the one hand - to more expensive ASIC, FPGA and DSP  
 or lower port density achievement.

On the other hand every Telecom company is looking for the IP  
 convergence, particularly a convergence of Voice, Data and Video in a  
 single piece of equipment. A further important issue for the telecom  
 companies is to save as much bandwidth as possible during the data/speech  
 transmission, but not with too much compromise of quality.

CLM

1. A method to provide a common platform for the encoder and decoder of  
 various CELP codecs used during  
 data/speech transmission within a communication networks, wherein  
 common portions (1 to 4; 11 to 15) of said codecs were extracted and

implemented on the common platform communicating with the remaining portions ( 5 to 10; 16 to 22) of said codecs.

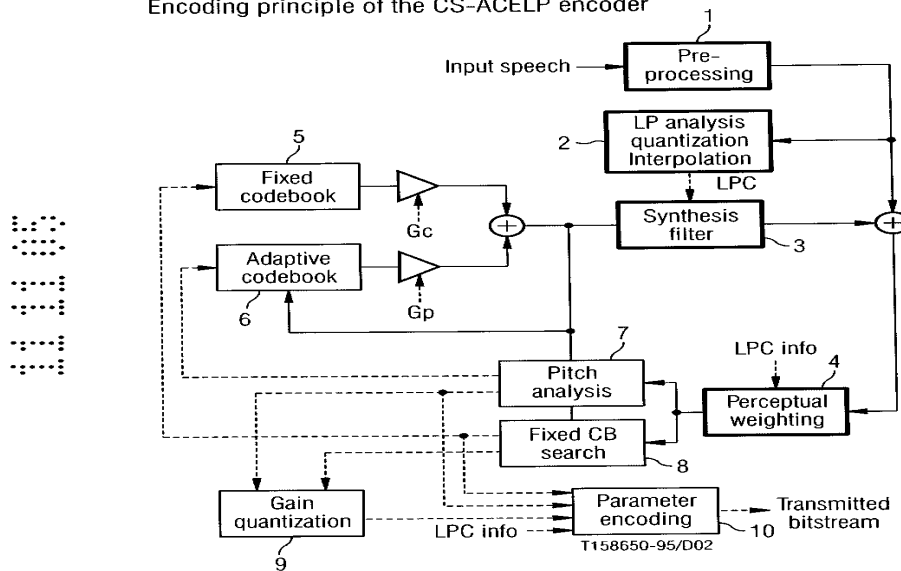
2. A method as claimed in the preceding claim, wherein the codecs could be represented by AMR, by Enhanced Full Rate GSM, by G729 or by G723.
3. A platform comprising implemented common portions of various CELP codecs communicating with the remaining portions of said codecs used during data/speech transmission within communication networks.
4. A platform as claimed in the preceding claim, wherein the codecs could be represented by AMR, by Enhanced Full Rate GSM, by G729 or by G723.

KT

common platform; celp codec; tencoder and decoder; common portion; complex celp encoder; memory and gates requirement; encoder and decoder; mobile and fixed network codec; low port density; remaining portion; enhanced full rate; celp decoder; communication network; encoder portion; synthesis filter; perceptual weighing filter; efforts and cost; pre-processing block; memory chip; quantization and interpolation; conclusion implementation; cost consuming; ip convergence

1/2

**FIG 1**  
Encoding principle of the CS-ACELP encoder



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