(2010/10)

Enhancements to the US National Patent Classification in INPADOCDB and INPAFAMDB

Content

1 Enhancements to the US national patent classification

The issued US national patent classification (NCL) is available for 6 million US applications in the INPADOC databases back to 1968. The NCL codes have now been standardized according to STN-standard rules and a NCL-thesaurus has been introduced to support patent classification searching. The US classification enhancements greatly support the retrieval of US patent publications in the INPADOC files.

The NLC-codes have a specific 9-digit format: the first three digits represent the class and the following six digits the sublass. Searches can be run at class or subclass level, we also distinguish between main (NCLM) and secondary (NCLMS) US classification codes. The NCL codes are included in the predefined display formats IND, STD, ALL, MAX and BRIEF.

How to search for US classification codes

```
=> S 455/411.000/NCL
=> S 455411000/NCL
=> S 455/NCL
=> S 455/411.000/NCLM
=> S 455411000/NCLS
```

Sample record covering US patent classification codes in INPADOCDB

```
=> D STD

L1    ANSWER 1 OF 1       INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN
AN    61288586 INPADOCDB ED 20100701 EW 201026 UP 20100701 UW 201026
TI    POLYMERIC MICELLES FOR DRUG DELIVERY.
IN    BREITENKAMP KURT; SILL KEVIN N.; SKAFF HABIB; BREITENKAMP REBECCA
INS   BREITENKAMP KURT, US; SILL KEVIN N, US; SKAFF HABIB, US; .....
PA    INTEZYNE TECHNOLOGIES, INC.
PAS   INTEZYNE TECHNOLOGIES INC, US
PI    US 20100159020       A1 20100624  English
PIT   USA1 FIRST PUBLISHED PATENT APPLICATION [FROM 2001 ONWARDS]
DAV   20100624  unexamined-printed-without-grant
STA   PRE-GRANT PUBLICATION
AI    US 2009-644110       A  20091222
AIT   USA Patent application
PRAI  US 2009-644110       A  20091222  (USA, 20100701, N)
      US 2006-396872       A  20060403  (USA1, 20100107, N)
      US 2005-667260P      P  20050401  (USP, 20070222, Y)
      US 2005-741780P      P  20051201  (USP, 20070222, Y)
PRAIT USA Patent application
      USA1 Prior application claimed for continuation
      USP Provisional application
IPCI  A61K0009-14 [I,A ]; A61K0031-4196 [I,A ]; A61K0031-704 [I,A ];
      A61K0031-7068 [I,A ]; A61P0035-00 [I,A ]; A61K0009-14 [I,C*]; ...
EPC   A61K0009-19; A61K0009-51; A61K0047-48W6B; C08G0069-40; ...
ICO   K61K0047:34
NCL   NCLM 424/497.000
      NCLS 514/034.000; 514/049.000; 514/383.000
```

2 US national patent classification thesaurus available

The US national patent classification thesaurus is attached to the NCL field and allows to view the definitions of the NCL codes and their respective hierarchies. The relationships can also be employed for hierarchical and range searching. The definitions of the codes are searchable which allows to find appropriate codes for a certain topic. See HELP THESAURUS and HELP RCODE for further details.

Identify appropriate US classification codes for hybrid vehicles

=> FIL INPAFAMDB

look for the required term in the NCL expand list

=> E HYBRID/NCL

```
E#     FILE         FREQUENCY    AT     TERM
--     ----         ---------    --     ----
E1     INPAFAMDB            0     0     HYALURONIDASE/NCL
E2     INPAFAMDB            0     1     HYALURONIDASE MUCINASE (3.2.1.35, 3.2.1)/NCL
E3     INPAFAMDB            0     2 --> HYBRID/NCL
E4     INPAFAMDB            0     1     HYBRID ALLOCATION/NCL
E5     INPAFAMDB            0     0     HYBRID CAPACITOR (EPO)/NCL
E6     INPAFAMDB            0     2     HYBRID CIRCUIT/NCL
E7     INPAFAMDB            0     0     HYBRID CODING/NCL
E8     INPAFAMDB            0     1     HYBRID COMMUNICATION SYSTEM (E.G., OPTICAL...
E9     INPAFAMDB            0     1     HYBRID CONVERSION SYSTEM/NCL
E10    INPAFAMDB            0     1     HYBRID DEVICE CONTAINING PHOTOSENSITIVE
                                          ELECTROLUMINESCENT COMPONENTS .....
E11    INPAFAMDB            0     1     HYBRID ECHO SUPPRESSOR CANCELLER/NCL
E12    INPAFAMDB            0     1     HYBRID ELECTRIC VEHICLES (HEVS)/NCL
E13    INPAFAMDB            0     0     HYBRID ENCODERS/NCL
E14    INPAFAMDB            0     1     HYBRID FIBER-COAX NETWORK/NCL
E15    INPAFAMDB            0     1     HYBRID FORM/NCL
E16    INPAFAMDB            0     1     HYBRID FORMS (375/201)/NCL
E17    INPAFAMDB            0     1     HYBRID FUSED CELL TECHNOLOGY, METHODS I
                                         MMORTALIZING CELLS, E.G., HYBRIDOMA,....
E18    INPAFAMDB            0     0     HYBRID HMM/NN/NCL
E19    INPAFAMDB            0     1     HYBRID MODULATION/NCL
E20    INPAFAMDB            0     1     HYBRID NETWORK (I.E., ANALOG DIGITAL)...
E21    INPAFAMDB            0     0     HYBRID PLASMID/NCL
E22    INPAFAMDB            0     1     HYBRID TYPES (ANALOG, DIGITAL)/NCL
E23    INPAFAMDB            0     1     HYBRID VEHICLE (IPC)/NCL
E24    INPAFAMDB            0     0     HYBRID-T/NCL
```

=> E E23+CODE

look up the code for the appropriate code definition with **+CODE**

```
E#     FILE           FREQUENCY  TERM
--     ----           ---------  ----
E1     INPAFAMDB              0  -->  Hybrid vehicle (IPC)/NCL
E2     INPAFAMDB            317       180065210/NCL
********** END **********
```

=> E 180065210+ALL/NCL

display the complete hierarchy of the relevant classification code with **+ALL**

```
E#      FILE             FREQUENCY  TERM
--      ----             ---------  ----
E1      INPAFAMDB         32836   BT3  180/NCL
                                  DEF  MOTOR VEHICLES
E2      INPAFAMDB            91    BT2  180054100/NCL
                                   DEF  power
E3      INPAFAMDB          1306     BT1  180065100/NCL
                                    DEF  electric
E4      INPAFAMDB           317      -->  180065210/NCL
                                     DEF  HYBRID VEHICLE (IPC)
E5      INPAFAMDB            76       NT1  180065220/NCL
                                      DEF  Specific vehicle architecture (IPC)
E6      INPAFAMDB            19        NT2  180065225/NCL
                                       DEF  Series and parallel (IPC)
E7      INPAFAMDB            22         NT3  180065230/NCL
                                        DEF  Switching type (IPC)
E8      INPAFAMDB            23         NT3  180065235/NCL
                                        DEF  Differential gearing type (IPC)
E9      INPAFAMDB            10         NT3  180065240/NCL
                                        DEF  Electrical distribution type (IPC)
E10     INPAFAMDB            14        NT2  180065245/NCL
                                       DEF  Series (IPC)
E11     INPAFAMDB            40        NT2  180065250/NCL
                                       DEF  Parallel (IPC)
E12     INPAFAMDB            11         NT3  180065260/NCL
                                        DEF  Motor assist (IPC)
E13     INPAFAMDB           229       NT1  180065265/NCL
                                      DEF  Control of multiple systems specific
                                           to hybrid operation
E14     INPAFAMDB            19       NT1  180065270/NCL
                                      DEF  Control of external device in
                                           conjunction with specific hybrid
                                           function
E15     INPAFAMDB           121       NT1  180065275/NCL
                                      DEF  Control of individual subunit
                                           specific to hybrid operation
E16     INPAFAMDB            86        NT2  180065280/NCL
                                       DEF  Control of engine specific to hybrid
                                            operation
E17     INPAFAMDB           171        NT2  180065285/NCL
                                       DEF  Control of motor or generator
                                            specific to hybrid operation
E18     INPAFAMDB           100        NT2  180065290/NCL
                                       DEF  Control of battery specific to
                                            hybrid operation

********** END **********
```

=> S 180065210+NT/NCL

search for the code and automatically incude all narrower codes with **+NT**

```
L3          858 180065210+NT/NCL  (15 TERMS)
```

=> D BRIEF

the BRIEF-format includes the US classification codes

```
L3    ANSWER 1 OF 858     INPAFAMDB COPYRIGHT 2010 EPO/FI

AN    40210223 INPAFAMDB EDF 20101021 EWF 201042 UPFB 20101021 UWF 201042
TI    VEHICLE WITH HYBRID POWERTRAIN.
INS   NAIK SANJEEV M, US; MURTY BALARAMA V, US
PAS   GM GLOBAL TECH OPERATIONS INC, US
IPCI  B60W0020-00     [I,A ]; B60W0010-06     [I,A ]; B60W0010-08     [I,A ];
      B60W0010-10     [I,A ]; B60W0020-00     [I,C*]; B60W0010-06     [I,C*];
      B60W0010-08     [I,C*]; B60W0010-10     [I,C*]
NCL   NCLM 180/065.265
      NCLS 475/005.000
AB    (US 20100258370 A1)
      A hybrid vehicle is provided with an engine, as well as a transmission
      having a motor/generator, a stationary member, and a planetary gear set.
      The engine and the motor/generator are separately selectively connectable
      to one of the drive axle assemblies by engagement of different ones of
      the torque-transmitting mechanism to transfer torque to that drive axle
      assembly. One or both of the engine and the motor/generator is also
      selectively connectable to the other drive axle assembly by engagement of
      another one of the torque-transmitting mechanisms to transfer torque to
      the other of drive axle assembly.

PATENT FAMILY INFORMATION INPAFAMDB

 +-------- Publications --------+      +-------- Applications --------+
 US 20100258370       A1 20101014      US 2009-422374       A  20090413

 +--------- Priorities ---------+
 US 2009-422374       A  20090413

 1 priority, 1 application, 1 publication
```

3 Locarno classification available for US design patents

The INPADOC files cover the Locarno classification for US-design patents from April 2005. The classification codes can be searched with the new field /LCL. The Locarno classification is provided with the predefined display formats IND, STD, ALL, MAX and BRIEF.

The Locarno classification is an international classification for industrial designs which comprises 32 classes and 219 subclasses: http://www.wipo.int/classifications/nivilo/locarno/. The classification is revised every 5 years, the current 9th edition has been in force since January 2009: http://www.wipo.int/classifications/locarno/en/

How to search for Locarno classification codes

=> S 12-16/LCL

=> D ALL

Locarno codes can also be searched in this format: 1216/LCL

```
L1    ANSWER 1 OF 1       INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN
AN    61938594 INPADOCDB ED 20100916 EW 201037 UP 20100916 UW 201037
TI    Wheel or wheel cover.
IN    GEISLER WOLFGANG
INS   GEISLER WOLFGANG, DE
PA    DAIMLER AG
PAS   DAIMLER CHRYSLER AG, DE
PI    US 623112D            S1 20100907  English
PIT   USS1 DESIGN PATENT
DAV   20100907  printed-with-grant
STA   GRANTED
AI    US 2009-311294F      F  20090210
AIT   USF Design application
PRAI  EM 2008-9847450005   F  20080811  (EMF, 20100916, Y)
      EM 2008-9847450006   F  20080811  (EMF, 20100916, Y)
PRAIT EMF Design application
NCL   NCLM D12/211.000
LCL   12-16
FA    AI; AN; DAV; DT; ED; EW; IN; INS; LA; LCL; NCL; PA; PAS; PI; PIT;..
```

4 PCT entry into national phase data available for Brazil

In October 2010 information about the entry into national phase of PCT applications in Brazil was made available. Coverage of these data starts in September 2005.

Search Example: Which PCT-applications of Siemens entered the national phase in Brazil?

BR/LSCY – searches Brazil as legal status code country

```
=> FIL INPADOCDB

=> S SIEMENS/PA,PAS AND WO/PC AND BR/LSCY
L1          208 SIEMENS/PA,PAS AND WO/PC AND BR/LSCY

=> D TI PA PI LS

L1    ANSWER 10 OF 208    INPADOCDB COPYRIGHT 2010 EPO/FIZ KA on STN
TI    SYSTEM AND METHOD FOR FLOW PROFILE CALIBRATION CORRECTION FOR ULTRASONIC
      FLOWMETERS.
      SYSTEME ET PROCEDE DE CORRECTION D'ETALONNAGE DE PROFIL POUR DEBITMETRES
      A ULTRASONS.
PA    SIEMENS ENERGY & AUTOMATION, INC.; BAUMOEL, JOSEPH
PI    WO 2006060650        A2 20060608
PI    WO 2006060650        A3 20060720
PI    WO 2006060650        A8 20070222

LEGAL STATUS
AN    15578824 INPADOCDB
20041202 USP      PRI Provisional application
                      US 2004-632651P      P  20041202
20051202 WOW      APP International application Number
                      WO 2005-US43612      W  20051202
......
20070517 WOWWE      + WIPO INFORMATION: ENTRY INTO NATIONAL PHASE
                      EP 2005852747
                      .....20080821
20070525 WOWWE      + WIPO INFORMATION: ENTRY INTO NATIONAL PHASE
                      CA 2589198
                      .....20080821
20070601 WOWWE      + WIPO INFORMATION: ENTRY INTO NATIONAL PHASE
                      CN 200580041308.X
                      .....20080821
20070605 WONENP       NON-ENTRY INTO THE NATIONAL PHASE IN:
                      DE
                      .....20071011
20070829 WOWWP      + WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE
                      EP 2005852747
                      .....20080821
20080715 WOWWE      + WIPO INFORMATION: ENTRY INTO NATIONAL PHASE
                      US 11720527
                      .....20100401
20080805 WOENP        ENTRY INTO THE NATIONAL PHASE IN:
                      BR PI0515806
                      .....20101021
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5 Enhanced coverage of Chinese assignment data

The coverage of Chinese assignment data has been extended to include data from 1995-2008. In June 2010 a first collection of Chinese assignment data from 1985 to 1990 was loaded. The missing gap will be filled as soon as the data become available.

Legal status codes covering Chinese assignment data

CNASS	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT
CNC41	TRANSFER OF THE RIGHT OF PATENT APPLICATION OR THE PATENT RIGHT
CNC44	SUCCESSION OR ASSIGNMENT OF PATENT RIGHT
CNC56	CHANGE IN THE NAME OR ADDRESS OF THE PATENTEE

The above mentioned codes fall into the legal status category CHG, which includes legal status codes for “change of owner, inventor, applicant” (CHG/LSC2).

6 US legal status code sheet available

The detailed description for 41 US legal status codes is now available in addition to previously compiled code descriptions for Australia and New Zealand.

http://www.epo.org/patents/patent-information/raw-data/useful-tables/usa.html