

Cooperative Patent Classification (CPC) Combination Set Data now available in CAplusSM, INPADOC and USPAT Databases

As of September 28, CPC combination set data can be searched in the following STN[®] databases: CASM/CAPLUS, INPADOCDB/INPAFAMDB, USPATFULL/USPAT2/USPATOLD.

CPC combination sets are groups of CPC symbols linking multiple features of an invention. Patent examiners assign these combination sets in special technical fields to support more precise CPC searching. Major technical areas include polymeric mixtures, cement formulations and organic synthesis. CPC combination sets are fully available for the entire backfile in INPADOC, comprising more than 2,4 million applications.

Benefits of searching CPC Combination Sets include:

- **Unique access points.** Many CPC codes are unique to CPC combination sets which have not been available before.
- **Precision.** Searching multiple CPC codes in the same CPC combination set retrieves highly relevant answer sets.
- **Value for novelty searching.** The patents retrieved from a search for multiple CPCs in a single combination set are likely to be of interest to those assessing the novelty of an invention.

SEARCHING FOR CPC AND CPC COMBINATION SET CODES

The traditional CPC search options have been extended to take care of the particular requirements of CPC combination set codes.

- The new search options allow to search for multiple CPC codes within one combination set using the (S)-proximity operator.
- The new search field /CPC.CS can be used to search for CPC codes occurring in a CPC combination set.
- CPC combination set codes have the attribute COMBINATION SET assigned which is searchable in the field /CPC.KW.

Searching for	Search Query
CPC codes in general	=> S A61K0009-7038/CPC => S A61K0009/CPC => S A61K/CPC
CPC codes plus all narrower codes	=> S A61K0009-7038+NT/CPC
CPC codes of a combination set	=> S C08L0023-10/CPC.CS => S C08L0023-10/CPC(T)COMBINATION SET/CPC.KW
Multiple CPC codes within a single combination set	=> S (C08L0023-10(S)C08K0003-04)/CPC
Regular CPC codes with attributes	=> S A61K0009-7038/CPC(S)INVENTION/CPC.KW
CPC combination set codes with attributes	=> S C08L0023-10/CPC.CS(T)INVENTION/CPC.KW

DISPLAYING CPC AND CPC COMBINATION SET CODES

All CPC codes, including the CPC combination set data, can be displayed with the display formats CPC and CPC.TAB in CAPLUS, INPADOC and USPAT databases. CPC combination set codes are clearly indicated in both display formats (see examples below).

The standard display format CPC is part of the predefined display formats ALL, IND and CLASS (CAPLUS). CPC.TAB can be used to display the full CPC information including all CPC codes and attributes in a tabular format.

CPC and CPC.TAB display format: Example from INPADOCDB

```
=> D TI PI CPC CPC.TAB
L1 ANSWER 1 OF 1 INPADOCDB COPYRIGHT 2014 EPO/FIZ KA on STN
TI Fiber reinforced cement composition and products and manufacturing
   process.
PI US 7967907 B2 20110628
CPC C04B0028-04; C04B0028-04, C04B0014-185, C04B0014-22, C04B0018-08,
   C04B0018-241, C04B0040-024, C04B2103-0053; C04B0028-04, C04B0014-20,
   C04B0014-22, C04B0018-08, C04B0018-241, C04B0040-024, C04B2103-0053
```

CPC CODE	VERSION	POS	INV	CC	ASSIGNMENT	DATE	STAT
C04B0028-04	(20130101)	F	I	Human	20130620	O	
C04B0028-04	(20130101)	L	I	Human	20130620	O,	
C04B0014-185	(20130101)	L	I	Human	20130620	O,	
C04B0014-22	(20130101)	L	I	Human	20130620	O,	
C04B0018-08	(20130101)	L	I	Human	20130620	O,	
C04B0018-241	(20130101)	L	I	Human	20130620	O,	
C04B0040-024	(20130101)	L	I	Human	20130620	O,	
C04B2103-0053	(20130101)	L	A	Human	20130620	O.	
C04B0028-04	(20130101)	L	I	Human	20130620	O,	
C04B0014-20	(20130101)	L	I	Human	20130620	O,	
C04B0014-22	(20130101)	L	I	Human	20130620	O,	
C04B0018-08	(20130101)	L	I	Human	20130620	O,	
C04B0018-241	(20130101)	L	I	Human	20130620	O,	
C04B0040-024	(20130101)	L	I	Human	20130620	O,	
C04B2103-0053	(20130101)	L	A	Human	20130620	O.	

The example above includes two CPC combination sets with multiple CPC codes. The members of a combination set are separated by commas. The end of a combination set is indicated by a semicolon in the CPC format or by a period in the CPC.TAB format.

CLASS display format: Example from CAPLUS

```

=> D TI PA CLASS
L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2014 ACS on STN
TI Method for producing zinc dicarboxylate
PA BASF SE, Germany
CLASS
PATENT NO.      CLASS  PATENT FAMILY CLASSIFICATION CODES
-----
WO 2013034489  IPCI   C08G0064-02 [I]; C08G0064-34 [I]; C07C0051-41 [I]
                IPCR   C08G0064-02 [I]; C07C0051-41 [I]; C08G0064-34 [I]
                CPCI   C07F0003-06 [I]; C07C0051-412 [I]; C08G0064-34 [I]
CN 103781817   IPCI   C08G0064-02; C08G0064-34; C07C0051-41
                IPCR   C08G0064-02 [I]; C07C0051-41 [I]; C08G0064-34 [I]
                CPCI   C07F0003-06 [I]; C07C0051-412 [I]; C08G0064-34 [I]
KR 2014062130  IPCI   C07F0003-06 [I]; C07C0051-41 [I]; C08G0064-02 [I];
                C08G0064-34 [I]
                IPCR   C07F0003-06 [I]; C07C0051-41 [I]; C08G0064-02 [I];
                C08G0064-34 [I]
                CPCI   C07F0003-06 [I]; C07C0051-412 [I]; C08G0064-34 [I]
EP 2753653     IPCI   C08G0064-02 [I]; C08G0064-34 [I]; C07C0051-41 [I]
                CPCI   C07F0003-06 [I]; C07C0051-412 [I]; C08G0064-34 [I];
                C07C0051-412 [I], C07C0055-10 [I]; C07C0051-412 [I],
                C07C0055-14 [I]; C07C0051-412 [I], C07C0055-16 [I];
                C07C0051-412 [I], C07C0055-18 [I]; C07C0051-412 [I],
                C07C0055-12 [I]
US 20140200328 IPCI   C08G0064-34 [I]; C07F0003-06 [I]
                CPCI   C07F0003-06 [I]; C07C0051-412 [I]; C08G0064-34 [I]
                NCL   528/405.000; 556/118.000

```

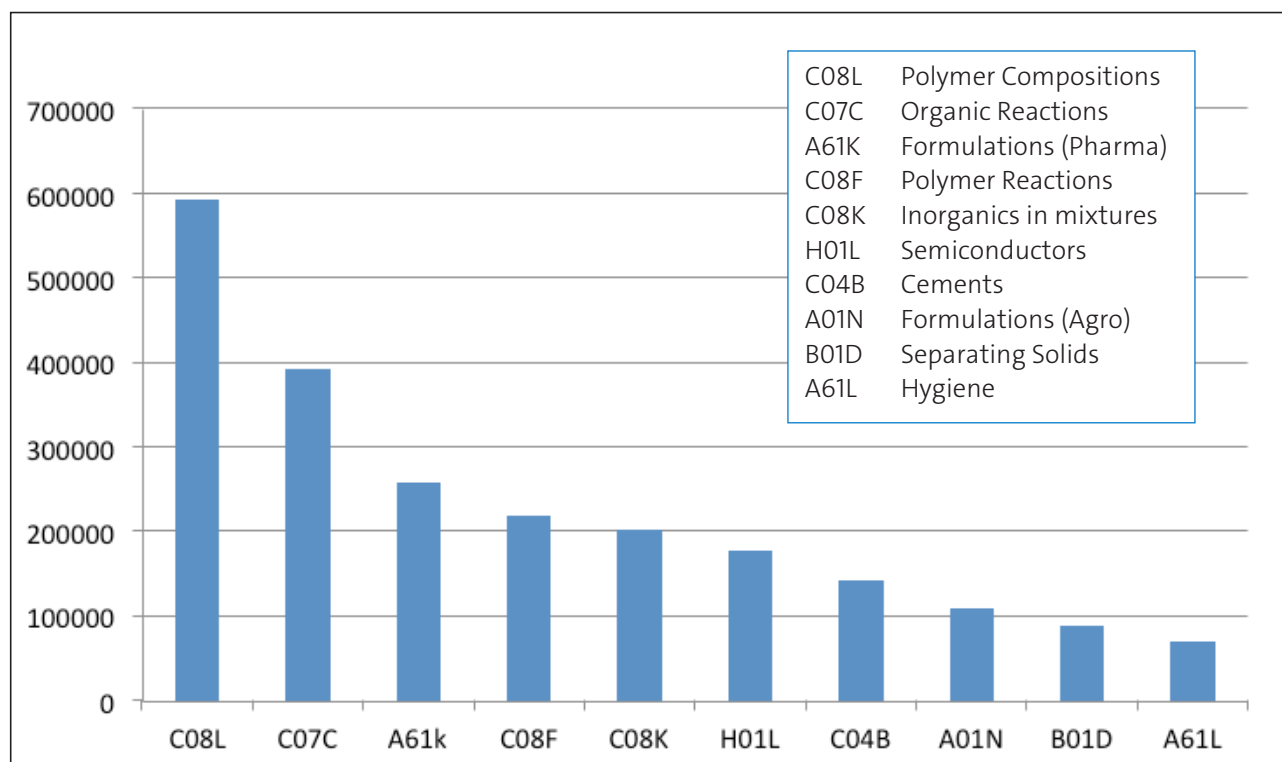
In CAPLUS, the class display format displays all available patent classification data for patent family members. In the example above, the EP family member provides CPC data including five CPC combination sets.

Major technical fields of CPC combination sets

CPC combination sets are mainly assigned to patents classified in section C (chemistry) of the CPC. The largest part includes patents from the polymer area, in particular polymeric mixtures. In organic chemistry combination sets are used to link products and chemical processes. Compositions with more than one active ingredient have also combination sets assigned, including inorganic mixtures like cement.

- Polymer Chemistry
 - Polymer mixtures (C08L)
 - Additives as compounding ingredients (C08K)
 - Polymer reactions: polymers formed (C08F, C08G)
- Preparation of organic compounds
 - Link of process and its product (C07C)
- Compositions/Mixtures
 - Polymer mixtures (C08L)
 - Pesticides (A01N)
 - Cements (C04B)

Major CPC Subclasses of CPC combination sets*



*no of applications in INPADOCDB, 31st of March 2014

USEFUL LINKS

Implementation of the CPC in INPADOC

www.stn-international.com/fileadmin/be_user/STN/pdf/search_materials/patents/INPADOC_NEWS_201211.pdf

Implementation of the CPC in CAPLUS

www.cas.org/news/product-news/cpc-search-and-display

Background information from EPO on CPC combination sets

www.cooperativepatentclassification.org/publications/CpcCsets.pdf