



Recent Developments in the CPC

WIPO Fourth IPC WORKSHOP

F16M11/2042 •••••{constituted of several dependent joints} F16M11/205 •••••{the axis of rotation intersecting in a single point e.g. ginitials}





Agenda

- CPC and National Offices
- CPC coverage Much more than EP and US documents and update
- IT matters
- CPC: Latest Status and Future Development



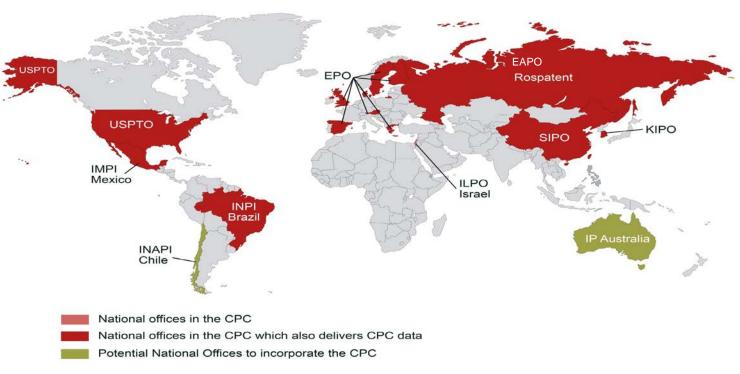


CPC and National Offices





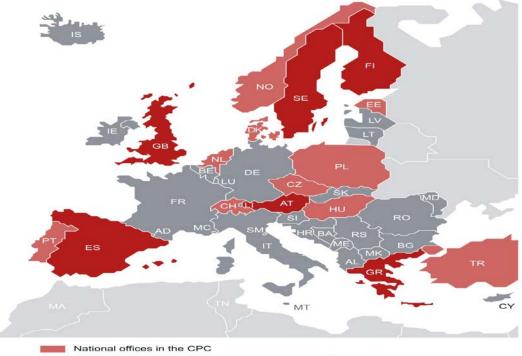
Around the world







16 Offices within the European Patent Organisation



National offices in the CPC which also delivers CPC data

Furthermore, CPC is used for search by more than 45 Patent Offices and by more than 25 000 examiners





CPC coverage -

Much more than EP & US documents...





CPC documentation coverage

Country	сс	Code	Systematically classified**	Non-systematically classified
ARIPO	AP		complete from 1 (3/7/1985)	
Austria	AT*	A,B	from 288 286 (15/1/1971)	from 100 022 (1925)
Australia	AU*	B,D	from 18/1/1973 (first filing: 1971)	from 1 019 332 (1933)
Belgium	BE		from 100 486 (1892)	years 1959-1962
			from 848 159 (4/8/1970)	
Canada	CA*		for first filling residents from 939 101 (1/1/1974)	from 114 746 (1908)
Switzerland	сн	A,B D	from 208 320 (31/1/1939) from 1968	from 1 (1888)
Cormony	DE	A,B,C	from 1 (1877)	
Germany	DE	U	from 6 609 798 (04/1/1973)	from 1 037 492 (1928)
EPO	EP	Α	complete from 1 (20/12/1978)	
France	FR	A,B	from 292 (1844)	
Trance	FK	E	from 92 701 (20/12/1968)	
United Kingdom	GB	A,B	from 1909 02 488 (27/1/1910)	from 1817 04 136 (1817)
Luxembourg	LU		from 555 (<1920)	
The Netherlands	NL		from 28 (1913)	
OAPI	OA		complete from 1 (15/01/1966)	
		A,B	complete from 1 (13/07/1836)	
		E	complete from 8 (23/4/1839)	
The United States	US	l (defensive) l (trial, project)	complete from 120 (04/10/1855)	
		н	complete from 1 (03/12/1985)	
World(PCT)	wo		complete from 7800001 (19/10/1978)	

* for first filings only ie. without foreign priorities

** when the indication "complete" is not present, this means that some documents in the collection may not be classified in CPC





CPC Coverage (EPODOC, 1 February 2017)

Country	Country Code	Number of documents (source: EPODOC on 01/02/2017)	Number of publications classified in CPC (family or document level)	% publications classified in CPC (family or document level)
EPO	EP	3.115.428	3.113.030	99,9%
United States	US	12.001.112	11.650.065	97,1%
Austria	AT	1.003.656	649.104	64,7%
Belgium	BE	585.582	551.554	94,2%
Switzerland	СН	715.369	576.238	80,6%
Germany	DE	5.544.142	4.740.975	85,5%
France	FR	2.415.748	2.395.208	99,1%
United Kingdom	GB	2.374.136	2.118.079	89,2%
Luxembourg	LU	61.825	60.773	98,3%
The Netherlands	NL	544.678	532.843	97,8%
ARIPO	AP	3.910	3.718	95,1%
Australia	AU	1.510.265	1.360.654	90,1%
Canada	CA	2.361.563	1.269.831	53,8%
OAPI	OA	13.432	13.191	98,2%
WIPO (PCT)	wo	2.994.234	2.998.490	100,1%





CPC Coverage of other patent collections (EPODOC, 1 February 2017)

Country	Country Code	Number of documents (source: EPODOC on 01/02/2017)	Number of publications classified in CPC (family or document level)	% publications classified in CPC (family or document level)
Portugal	PT	110.967	100.790	90,8%
Mexico	MX	263.843	239.169	90,6%
Israel	IL	98.571	84.600	85,8%
Norway	NO	200.974	171.479	85,3%
Estonia	EE	6.958	5.278	75,9%
Chile	CL	15.496	11.344	73,2%
Sweden	SE	519.265	330.853	63,7%
Brazil	BR	605.674	380.715	62,9%
Hungary	HU	117.983	73.100	62,0%
Finland	FI	194.071	112.202	57,8%
Spain	ES	1.089.296	629.519	57,8%
Greece	GR	99.533	52.753	53,0%
Czech Republic	CZ	90.041	42.734	47,5%
Turkey	TR	62.045	28.661	46,2%
Korea	KR	3.245.572	1.420.956	43,8%
Poland	PL	273.302	86.310	31,6%
China	CN	12.159.983	2.406.586	19,8%
Russian Fed.	RU/SU	2.183.555	306.103	14,0%

Overall, 46.7 million documents classified in CPC





Overview of CPC implementation (1/3)

Country	Front file national invention applications	CPC Printed?	CPC data delivered to the EPO	classification over whole CPC scheme	PCT applications	Backfile	Utility models
AUSTRIA	Yes (ECNO office)	No	Yes	yes	No	No	Yes
BRAZIL	2014	Yes	Yes	Currently partial coverage (from the 12 divisions trained out of 20 divisions of INPI incl. Utility Model division)	Yes (transmitted to WIPO in SR – data exchange with EPO to be defined)	Not yet - Under consideration	Yes (all)
CHINA	Yes, since 2014	No	Yes	Partial from 2014 Over whole scheme since January 2016	Under consideration	Under consideration	Under consideration
CZECH REPUBLIC	Yes	No	No	Yes	No (Only within VPI appl. as ISA)	No	Yes
EAPO	Yes, starting Jan 2019	No	No	Limited to fields where advanced training provided	N/A	Yes, starting Jan 2020	TBC
DENMARK	TBC	No	No	TBC	N/A	TBC	TBC
ESTONIA	Starting 2016	No	No	Yes	Yes	No commitment	Yes





Overview of CPC implementation (2/3)

Country	Front file national invention applications	CPC printed?	CPC data delivered to the EPO	classification over whole CPC scheme	PCT applications	Backfile	Utility models
FINLAND	Yes (ECNO office)	No	Yes	yes	TBC	No commitment	N/A
GREECE	2015	Yes	Yes	yes	N/A	No commitment	N/A
ISRAEL	Sept 2016	No	Planned by the end of 2017	TBC	TBC - Receiving classification data from USPTO(started at September 2016)	None	None
HUNGARY	TBC	No	No	TBC	N/A	TBC	TBC
KOREA	2014	No	Yes	Partial in 2014 (25 areas) Over whole scheme since January 2015	Yes, since 7 June 2016. Way to exchange data to be defined	2004 to 2014; done by end 2018	N/A
MEXICO	yes	No	yes	yes	N/A	Expected to start in January 2017 subject to availability of resources	Yes (acc. to MoU)
NETHERLAN DS	Expected in 2017	No	No	yes	N/A	No commitment	N/A





Overview of CPC implementation (3/3)

Country	Front file national invention applications	CPC printed?	CPC data delivered to the EPO	classification over whole CPC scheme	PCT applications	Backfile	Utility models
NORWAY	October 2015	No	No	yes	N/A	Planned to start in 2018	N/A
POLAND	TBC	No	No	TBC	N/A	ТВС	TBC
PORTUGAL	March 2015	No	No	yes	N/A	No commitment	N/A
RUSSIAN FEDERATION	January 2016	Yes	Yes (May 2016)	yes	Yes for national ap / Not yet for international – delivery method to be defined	Under consideration	Yes
SPAIN	Yes (ECNO office)	No	Yes (2013)	yes	TBC	partially	N/A
SWEDEN	Yes (ECNO office)	No	Yes (2013)	yes	TBC	Yes (+ DPK)	N/A
SWITZERLAND	(expected) second half 2016	No	No	yes	N/A	No commitment	N/A
TURKEY	Expected in 2017	No	No	TBC	N/A	TBC	TBC
UNITED KINGDOM	CPC has been applied to all new applications from 28/10/2013	No	Supplied weekly via ST36XML file (sent via FTP)	UK examiners classify in CPC across CPC sections A-H	When PCT applications enter the national phase, Examiners add CPC (and revise IPC) prior to republication.	CPC classification is not applied to the backfile	N/A





IT matters





OPS RESTful web services (classification)

These provide access to the EPO's raw data via a standardised XML interface.

The web services focussing on classification relate to:

CPC Search
CPC Media retrieval
CPC Retrieval







CPC schema changes

• Schema changes for the CPC scheme and definitions in November 2016 !!!

Impacted areas:

- References in Definitions
- Enhanced references in Scheme and Definitions
- Change in Synonyms and Keywords
- Details were made available on www.cpcinfo.org in May 2016, to be effective as of the November 2016 CPC release





CPC: Latest Status





CPC Scheme and Definitions

<u>http://www.cooperativepatentclassification.org/cpcSchemeAndDefinitions.html</u>

CPC Scheme and Definitions

Table

Bulk

CPC Revisions

CPC Concordances

CPC Training

Events

Publications

Press releases

CPC XML Schemas:

- For the CPC Scheme
- For the CPC Definitions

CPC Validity file (2017.02)

<u>Complete CPC scheme in XML format (2017.02)</u>

Complete CPC scheme in PDF format (2017.02)

- www.uspto.gov/web/patents/classification/index.html
- worldwide.espacenet.com/classification





Published Notice of Changes in CPC:

Year	CPC Projects						
Tear	Maintenance	Revision	Definition				
	Projects	Projects	Projects				
	(MP)	(RP)	(DP)				
2017	12	17	01				
2016	68	55	52				
2015	16	57	21				
2014	06	31	00				
2013	03	09	00				

http://www.cooperativepatentclassification.org/CPCRevisions/NoticeOfC hanges.html

Cooperative Patent	F16M11/2028	•••• {for rolling, i.e. for creater
Classification (uropean Patent Office United States Patent and Trademark Office	F16M11/2035	••• {in more than one direction
	F16M11/2042	•••• { constituted of several de
Home Latest news About CPC	F16M11/205	••••• {the axis of rotation inte
Objectives	CPC Revisions	
CPC Scheme and Definitions		
CPC Revisions	In this area, information regarding change published in the form of "Notice of Change	
Notice of Changes	orders).	
Projects	Information will also be provided about on	going CPC Scheme revision projects.
Pre-release CPC Concordances	Under the navigation title "Pre-release", a	s of May 2014, material such as the
CPC Training	scheme, notices of changes, concordance about one month ahead of official entry	
Events	material.	The force of the conseponding
Home	F	16M11/205 •••••
		101111/203
Latest news		10/01/17/203
About CPC	Notice of Change	
About CPC Objectives		
About CPC Objectives CPC Scheme and Definitions	Notice of Change CPC 2015.04:	
About CPC Objectives CPC Scheme and Definitions	CPC 2015.04:	
About CPC Objectives CPC Scheme and Definitions CPC Revisions	CPC 2015.04: • <u>CPC Notice of Cha</u>	s
About CPC Objectives CPC Scheme and Definitions CPC Revisions Notice of Changes	CPC 2015.04: • CPC Notice of Char • CPC Notice of Char	S Inges 65-RP0022 (B60N)
Projects	CPC 2015.04: • CPC Notice of Char • CPC Notice of Char • CPC Notice of Char • CPC Notice of Char	S Inges 65-RP0022 (B60N) Inges 66-RP0031 (B65H)





CPC Scheme Releases

- Four to five times per year
- Announced on

http://www.cooperativepatentclassification.org/CPCRevisions/prereleases.html

<u>2017</u>

- 1 January 2017
- 1 February 2017
- 1 May 2017
- 1 August 2017





List of subclasses where 2000 series are used

Available on http://www.cooperativepatentclassification.org/index.html under Publications

А	B < B60	B ≥ B60	С	D	E	F	G	Н
A01C	B01D	B60B	C01B	D01H	E01B	F01B	G01B	H01F
A01D	B01F	B60C	C01P	D03C	E01C	F01C	G01C	H01G
A01F	B01J	B60D	C02F	D03D	E01D	F01L	G01G	H01H
A01G	B01L	B60F	C03B	D03J	E01H	F01M	G01J	H01J
A01K	B02C	B60G	C03C	D05B	E02B	F01N	G01K	H01L
A01M	B03B	B60H	C04B	D05D	E02D	F01P	G01L	H01M
A01N	B03C	B60J	C07B	D06B	E03B	F02B	G01N	H01R
A22B	B03D	B60K	C07C	D06C	E03C	F02D	G01P	H01S
A22C	B04B	B60L	C07K	D06F	E03D	F02F	G01R	H02B
A23C	B04C	B60M	C08C	D06H	E03F	F02G	G01S	H02G
A23F	B05B	B60N	C08F	D06M	E04B	F02M	G01V	H02J
A23G	B05D	B60Q	C08G	D06N	E04C	F02N	G01W	Н02К
A23N	B06B	B60R	C08J	D06P	E04D	F02P	G02B	H02M
A23P	B07B	B60S	C08K	D07B	E04F	F02W	G02C	H02P
A23V	B07C	B60T	C08L	D10B	E04G	F03G	G02F	нозв

CPC subclasses with indexing codes (2000 series)





Guide to the CPC

New version of the CPC Guide available on <u>http://www.cooperativepatentclassification.org/index.html</u> since February 2017 under Publications (new section on C-Sets)

Publications	CPC XML schemas:
CPC Annual Reports	 Changes to be introduced in November 2016:
Presentations	 Notification of schema (xsd) changes for CPC schem
Miscellaneous	 Schema and sample files
Press releases	
Links	Guide to the CPC:
FAQ	Guide to the CPC (Updated 1 February 2017)
	(C-Sets) Classification
	f C-Sets
	C-Sets
	n value of the allocation
7.3.2. Allocation	of C-Sets to a document
7.3.3. C-Sets sy	ntax rules
7.3.4. Character	istics of C-Sets
7.4. Guidance abo	ut C-Sets information in scheme and definitions

Guide to the CPC (Cooperative Patent Classification)

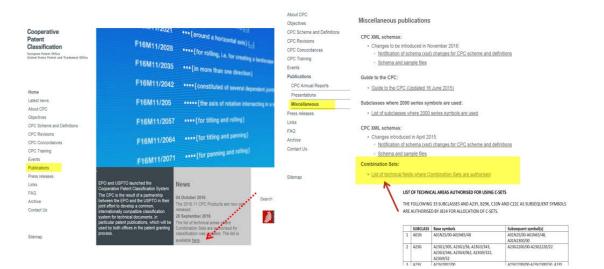
Document owner	EPO and USPTO
Office Contacts	EPO Directorate Classification & Documentation; USPTO Classification Standards and Development
EPO internal owners	Owner: Chairman DOC; Deputy: Director Classification & Documentation
USPTO internal owners	Owner: Director, Classification Standards and Development
Approved on	
Document ID	Version 1.0
Revision number	4.00





Combination Sets (C-Sets)

List of 37 subclasses where combination Sets are used in the CPC **published**:



http://www.cooperativepatentclassification.org/publications/CombiSetsListofFields.pdf





Combination Sets actions-followed

- Standardized wording for Notes in the Scheme signalling usage of C-Sets (in the places where C-Sets are used)
- Standardized wording <u>for Definitions</u> specifying the usage of C-Sets (in the places where C-Sets are used)
- <u>In Q3 2017</u>, **clean up of not-anymore-authorized C-sets** i.e. deletion of C-set and allocation of "split" symbols as single ones

Example: current C-set "F04C2/18, A61B1/00" is not on the list of authorized ones. Will disappear but F04C2/18 as well as A61B1/00 will be allocated to the family as single symbols (if not already present)





C-Sets from National Offices in Espacenet (<u>http://worldwide.espacenet.com</u>)

Classification:	- international:	C09J201	/00; C09J5/00; C09J7/02; H01L21/301	
	- cooperative	default:	C09J7/0207; H01L21/6836; H01L21/78; H01L24/27; H01L24/29; H01L C09J2201/36; C09J2203/326; H01L21/67132; H01L2221/68318; H01L2221/68327; H01L2221/68336; H01L2221/68359; H01L2224/27 H01L2224/2919	
		CPCNO:	C09J7/0207; H01L21/6836; H01L21/78; H01L24/27; H01L24/29; H01L C09J2201/36; C09J2203/326; H01L21/67132; H01L2221/68318; H01L2221/68327; H01L2221/68336; H01L2221/68359; H01L2224/27 H01L2224/2919	
	ſ	C-sets:	- H01L2224/2919, H01L2924/0665, H01L2924/00, - H01L2924/0665, H01L2924/00, - H01L2924/0132, H01L2924/01031, H01L2924/01033, H01L2224/73 H01L2224/32225, H01L2224/48227, H01L2924/00012, H01L2924/15 H01L2224/3225, H01L2224/32225 %2, H01L2224/48227 %2, H - H01L2224/32225, H01L2224/3265. - H01L2224/32225, H01L2224/48227, H01L2924/00, - H01L2924/3512, H01L2924/00	5311,
Past:				
 only 	C-Sets from I	EPO/US	PTO were displayed	
• C-S	ets not search	able		
Since 15	5 March 2016:			
Also	C-sets from (CPCNO	Offices are displayed	
• a	nd searchable	<mark>e</mark> in "Sm	art search" by using "cpcC"	
Esp	acenet: free	acces	s to the database of over 90 million patents	
Smart	search: i			Siemens EP 2007
	C08F8/30 AND cpcc=0	2005202/02		-

Search

Clear





C-Set attributes in XML of CPC scheme

Starting with CPC release of February 2017, population of the XML attributes for CPC symbols as follows:

- "@c-set-base-allowed" attribute from the authorised list set to "true", all other symbols set to "false"
- "@c-set-subsequent-allowed" attribute set to "false" for all "Y section" symbols. Set to "true" for all other symbols.





Future Developments

Machine readable products





CPC Products after CPC revisions

Products will be delivered in a **machine-readable** format, e.g. XML (available on <u>http://www.cooperativepatentclassification.org/index.html;jsessionid=1pn6q6z70vchj</u>)

- RCL (Revision Concordance List)
- CICL (CPC-to-IPC Concordance List)
- Validity File

→ Completed in January 2017

- CRL (Cross-Reference List)
- Compilation of changes

→ For later ...





Future Developments

A new approach for CPCNO data (CPC-INT project)





Current picture		document level (CPCNO)	family level (CPC)
INPI Brazil	BR9910073	H01R 12/71	
SIPO	CN1306684	H01R 13/65	
EPO	EP1075714		
UKIPO	GB2353908	H01R 12/73	H01R 12/71 H01R 13/6581
KIPO	KR20010071195	H01R 13/6581	
PRV	SE0003892	H01R 13/6581	
USPTO	US6206729		





Future picture

family level (CPC)

INPI Brazil	BR9910073	H01R 12/71	
SIPO	CN1306684	H01R 13/65	
EPO	EP1075714	H01R 12/71; H01R 13/6581	H01R 12/71 (EP, US, BR) H01R 13/6581 (EP, US, SE, KR) H01R 13/65 (CN)
UKIPO	GB2353908	H01R 12/73	
KIPO	KR20010071195	H01R 13/6581	H01R 12/73 (GB)
PRV	SE0003892	H01R 13/6581	
USPTO	US6206729	H01R 12/71; H01R 13/6581	

Expected by the end of 2018







Thank you for your attention! www.cpcinfo.org

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